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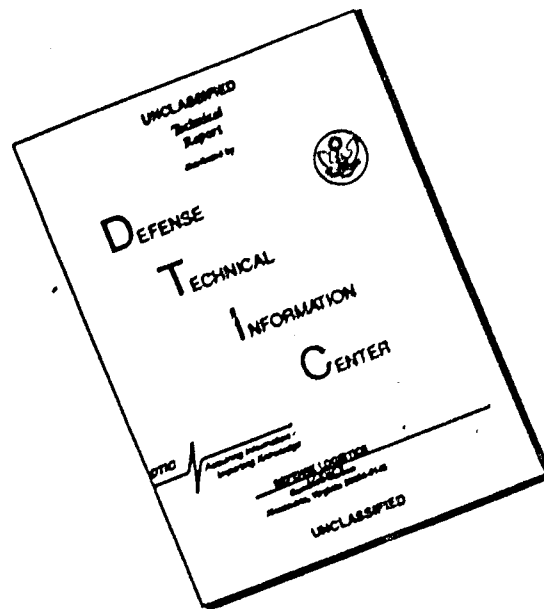
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SMITHSONIAN INSTITUTION
ASTROPHYSICAL OBSERVATORY

Research in Space Science

SPECIAL REPORT

Number 67

CATALOGUE OF SATELLITE OBSERVATIONS
No. C-23

XEROX

July 17, 1961
CAMBRIDGE 38, MASSACHUSETTS

SAO Special Report No. 67

CATALOGUE OF SATELLITE OBSERVATIONS

No. C-23

Prepared by D. V. Mechau

Smithsonian Institution
Astrophysical Observatory

Cambridge 38, Massachusetts

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CATALOGUE OF SATELLITE OBSERVATIONS, NO. C-23

Prepared by D. V. Mechau¹

INTRODUCTION

This report lists observations of Satellites 1960 $\gamma 1$ (ECHO I) and 1960 $\gamma 2$ (carrier rocket, ECHO I) for the period September 1 through December, 1960. Because great numbers of observations were received for Satellite 1960 $\gamma 1$, we found it impractical and unnecessary to process all of them. Also, some observations were rejected because they were grossly in error. For these reasons, this report does not contain all observations received by SAO.

The observations listed include those from the Smithsonian Baker-Nunn camera stations, Moonwatch teams, U. S. and foreign observatories, military installations, Phototrack stations, and miscellaneous observers. A number of observations have been received from the National Space Surveillance Control Center (NSSCC), under an arrangement involving an exchange of observations of artificial earth satellites. Minitrack and Doppler data received by SAO are not included.

Units

The date given lists the month and day of the observation; the time (U. T.) is given in hours, minutes, and seconds; right ascension is in hours, minutes, and seconds; declination, azimuth, and altitude are in degrees, minutes, and seconds; azimuth is measured from north through east; the range is in kilometers.

An explanation of the Index Number appears on pages 3 and 4.

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EXPLANATION OF INDEX NUMBER

The index number in the column to the extreme right consists of six digits. The first digit indicates the precision of the time of the observation; the second and third digits, the precision of position; the fourth digit, the coordinate system and corrections; the fifth digit, the equator and equinox; the sixth digit, the type of instrumentation used in making the observation.

Precision of Time (1st digit)

Code number	Standard error in timing (σ_t)	Code number	Standard error in timing (σ_t)
0	No estimate	5	$.02^S < \sigma_t \leq .05^S$
1	$\sigma_t \leq .0003^S$	6	$.05^S < \sigma_t \leq .2^S$
2	$.0003^S < \sigma_t \leq .002^S$	7	$.2^S < \sigma_t \leq .5^S$
3	$.002^S < \sigma_t \leq .005^S$	8	$.5^S < \sigma_t \leq 2^S$
4	$.005^S < \sigma_t \leq .02^S$	9	$\sigma_t > 2^S$

Precision of Position (2nd and 3rd digits)

Code number*	Standard error in direction (σ_D)	Code number*	Standard error in direction (σ_D)	Code number*	Standard error in direction (σ_D)
00	No estimate	17	$16''.5 < \sigma_D \leq 17''.5$	34	$21' < \sigma_D \leq 31.5'$
01	$\sigma_D \leq 1''.5$	18	$17''.5 < \sigma_D \leq 18''.5$	35	$31.5' < \sigma_D \leq 41.4'$
02	$1''.5 < \sigma_D \leq 2''.5$	19	$18''.5 < \sigma_D \leq 19''.5$	36	$41.4' < \sigma_D \leq 51.8'$
03	$2''.5 < \sigma_D \leq 3''.5$	20	$19''.5 < \sigma_D \leq 20''.5$	37	$51.8' < \sigma_D \leq 71.5'$
04	$3''.5 < \sigma_D \leq 4''.5$	21	$20''.5 < \sigma_D \leq 22''$	38	$71.5' < \sigma_D \leq 91.7'$
05	$4''.5 < \sigma_D \leq 5''.5$	22	$22'' < \sigma_D \leq 23''.5$	39	$91.7' < \sigma_D \leq 131'$
06	$5''.5 < \sigma_D \leq 6''.5$	23	$23''.5 < \sigma_D \leq 26''$	40	$131' < \sigma_D \leq 171'$
07	$6''.5 < \sigma_D \leq 7''.5$	24	$26'' < \sigma_D \leq 29''$	41	$171' < \sigma_D \leq 221'$
08	$7''.5 < \sigma_D \leq 8''.5$	25	$29'' < \sigma_D \leq 33''$	42	$221' < \sigma_D \leq 281'$
09	$8''.5 < \sigma_D \leq 9''.5$	26	$33'' < \sigma_D \leq 38''$	43	$281' < \sigma_D \leq 371'$
10	$9''.5 < \sigma_D \leq 10''.5$	27	$38'' < \sigma_D \leq 45''$	44	$371' < \sigma_D \leq 491'$
11	$10''.5 < \sigma_D \leq 11''.5$	28	$45'' < \sigma_D \leq 54''$	45	$491' < \sigma_D \leq 1^{\circ}1'$
12	$11''.5 < \sigma_D \leq 12''.5$	29	$54'' < \sigma_D \leq 1^{\circ}1'$	46	$1^{\circ}1' < \sigma_D \leq 1^{\circ}4'$
13	$12''.5 < \sigma_D \leq 13''.5$	30	$1^{\circ}1' < \sigma_D \leq 1^{\circ}3'$	47	$1^{\circ}4' < \sigma_D \leq 1^{\circ}8'$
14	$13''.5 < \sigma_D \leq 14''.5$	31	$1^{\circ}3' < \sigma_D \leq 1^{\circ}7'$	48	$1^{\circ}8' < \sigma_D \leq 2^{\circ}4'$
15	$14''.5 < \sigma_D \leq 15''.5$	32	$1^{\circ}7' < \sigma_D \leq 2^{\circ}1'$	49	$2^{\circ}4' < \sigma_D$
16	$15''.5 < \sigma_D \leq 16''.5$	33	$2^{\circ}1' < \sigma_D \leq 2^{\circ}7'$		

* For electronic instruments, these code numbers (2nd and 3rd digits of the index in table 6) are increased by 50.

Coordinate System and Corrections (4th digit)

Code number	Coordinate System
0	Right ascension and declination corrected for refraction or not known to be corrected.
1	Azimuth and altitude corrected for refraction.
2	Right ascension and declination not corrected for refraction.
3	Azimuth and altitude not corrected for refraction or not known to be corrected.

Era and Epoch (5th digit)

Code number	Era and Epoch
0	Of date given
1	1950.0
2	1900.0
3	1900.0
4	1900.0

Type of Instrumentation (6th digit)

Code number	Optical Observations	Code number	Electronic Observations
0	Naked eye and binoculars, visual.	0	Minitrack Mark 1.
1	Standard Meade-Lick telescope, visual.	1	Minitrack Mark 2.
2	Alexander telescope, astronomical refractor or reflector, thermally stable, visual.	2	Interferometer observations from radio observatories.
3	Excess-Lick camera, photographic.	3	Doppler observations from radio observatories.
4	Small minute telescopes, tracking cameras with focal length 20 inches or greater, photographic.	4	Microlock.
5	Pinhole camera, tracking cameras with focal length less than 20 inches, photographic.	5	Doppler observations from communications systems.
6	Harvard telescope camera (Super-Schmidt) photographic.	6	Doppler observations from missile ranges.
7	Stationary telescope or camera with focal length equal to or less than 10 inches, photographic.	7	Radio.
8	Stationary telescope or camera with focal length greater than 10 inches, photographic.	8	Unused digit.
9	Other instruments, or instrument unknown.	9	Miscellaneous.

OBS NO	STATION	SEA NO	DATE	TIME	R. S.	DEG.	AZIMUTH	ALTITUDE	RANGE	INDEX
32827	TERRE HAUTE, IND.	8527	9 01	0 17 09.8			10 30	66 30		845302
32829	CINCINNATI, OHIO	8555	9 01	0 17 09.9			143 12	65 06		845302
32820	N. CANTON, OHIO	8544	9 01	0 19 10.3	19 09	62 00				845042
31442	MEUDON, FRANCE	2715	9 01	0 29 47.0			272 05	13 00		637109
31443	MEUDON, FRANCE	2715	9 01	0 30 41.9			267 01	15 47		637109
31444	MEUDON, FRANCE	2715	9 01	0 31 06.1			264 35	26 25		637109
10531	OLIFANTSFENTINBN, S.A.F	9002	9 01	1 00 41.40	3 36 30	9 39				8434013
34111	SACRAMENTO, CAL.	8517	9 01	2 13 50.4			0 00	71 51		641304
32824	WHITTIER, CAL.	8566	9 01	2 13 50.7			0 00 00	47 04 48		845303
32855	CHINA LAKE, CAL.	0098	9 01	2 14 56.5			0 00	52 52 48		641303
32708	DAYTON, OHIO	8557	9 01	2 17 52.0			298 48	26 12		845303
32825	FT. WORTH, TEX.	0139	9 01	2 17 54.8	12 28 00	70 42				845013
32827	DENVER, COLO.	8582	9 01	2 18 09.0			0 00	59 00		845303
32829	WICHITA, KAN.	0028	9 01	2 19 53.9	18 32 26	80 57				845043
32709	DAYTON, OHIO	8557	9 01	2 20 09.4			314 30	40 48		845303
32826	FT. WORTH, TEX.	0139	9 01	2 20 57.2	4 08 00	88 33				845013
32821	N. CANTON, OHIO	8591	9 01	2 21 24.6	15 24	59 00				845042
32713	NEW ORLEANS, LA.	0030	9 01	2 21 28			0 00	28 00		845302
32831	CHICAGO, ILL.	0020	9 01	2 22 02.4	19 07	68 55				845042
32710	DAYTON, OHIO	8557	9 01	2 22 03.3			242 48	51 30		845303
32833	CHICAGO, ILL.	0020	9 01	2 22 06.0	0	64				845042
32818	TERRE HAUTE, IND.	8527	9 01	2 22 08.8			0	53		845302
32832	CHICAGO, ILL.	0020	9 01	2 22 16.0	19 27	68 55				845042
32848	N. CANTON, OHIO	8544	9 01	2 23 02	18 16	70 45				845032
32530	CINCINNATI, OHIO	8555	9 01	2 23 02.8			4 18	52 12		845302
32834	N. CANTON, OHIO	8584	9 01	2 24 14.1	20 01 05	69 06				845032
32715	ROANOKE, VA.	0073	9 01	2 24 15	19 33 32	79 48				845042
32716	ROCHESTER, N.Y.	8585	9 01	2 24 17.3	19 56 00	61 48				845032
32839	ROCHESTER, N.Y.	8564	9 01	2 24 23.4	19 50	59 43				845033
32819	TERRE HAUTE, IND.	8527	9 01	2 24 26.2			42 30	44 20		845303
32711	DAYTON, OHIO	8557	9 01	2 25 00.5			43 12	47 18		845303
32822	N. CANTON, OHIO	8572	9 01	2 25 13.3	21 30	68 00				845042
32823	N. CANTON, OHIO	8536	9 01	2 25 31	22 02 30	64 42				641042
32712	DAYTON, OHIO	8557	9 01	2 28 10.7			70 12	27 24		845303
52801	MADISON, WISC.	5078	9 01	2 28 26.9	0 36 12	20 54				637007
52802	MADISON, WISC.	5078	9 01	2 28 30.0	0 38 00	20 30				637007
32840	ROCHESTER, N.Y.	8564	9 01	2 28 30.6	0 04 30	28 42				845034
10525	JUPITER, FLA.	9010	9 01	2 28 36.78	2 10 30	51 38				434013
32842	CINCINNATI, OHIO	0050	9 01	2 29 07	1 03	33 18				845004
10526	JUPITER, FLA.	9010	9 01	2 29 19.10	2 09 42	46 57				434013
32847	N. CANTON, OHIO	8565	9 01	2 29 25.6	0 50 40	23 57				845043
32841	ROCHESTER, N.Y.	8564	9 01	2 29 34.2	0 53 18	22 24				845033
10532	OLIFANTSFENTINBN, S.A.F	9002	9 01	3 05 43.10	1 34 42	44 49				434023
32849	SAN JOSE, CAL.	8573	9 01	4 14 17.3	12 47 03	38 32				845003
32852	WHITTIER, CAL.	8566	9 01	4 16 29.4			320 30 00	25 30 00		845303
32853	WHITTIER, CAL.	8566	9 01	4 16 41.2			47 04 48	23 37 12		845303
32850	SAN JOSE, CAL.	8573	9 01	4 18 11.8	14 50 48	74 39				845003
34113	SACRAMENTO, CAL.	8517	9 01	4 18 15.5	15 49 48	73 24				641013
34112	SACRAMENTO, CAL.	8517	9 01	4 18 50.6	17 03 12	78 09				641013
33414	SACRAMENTO, CAL.	8517	9 01	4 19 17.3			0 00	49 07		641304
33101	VAN NUYS, CAL.	0113	9 01	4 20 03.1			0 33 36	35 31 12		845303
33102	VAN NUYS, CAL.	0113	9 01	4 20 04.1			0 42 00	35 30 00		845303
32854	CHINA LAKE, CAL.	0098	9 01	4 20 13.6			0 00	39 39 00		641303
32851	SAN JOSE, CAL.	8573	9 01	4 22 02.3	0 11 25	58 55				845003
51472	MANHATTAN, KAN.	8110	9 01	4 22 11.1	15 37 36	54 39				845009
32856	TUCSON, ARIZ.	0003	9 01	4 23 14.7			41 12	17 00		845303
32857	TUCSON, ARIZ.	0003	9 01	4 24 08.0			30 00	27 00		845303
32855	N. CANTON, OHIO	8572	9 01	4 24 36.7	16 39 48	39 42				845033
51473	MANHATTAN, KAN.	8110	9 01	4 24 36.8	19 65 51	67 26				845009
32858	TUCSON, ARIZ.	0003	9 01	4 24 51.2			34 00	28 06		845303
32859	DALLAS, TEX.	0129	9 01	4 25 09.9	10 31 00	83 12				845043
32860	DALLAS, TEX.	0129	9 01	4 25 59.7	23 39 00	77 24				845043
32830	WICHITA, KAN.	0028	9 01	4 26 33.0	23 30 39	59 53				845043
51474	MANHATTAN, KAN.	8110	9 01	4 26 38.7	23 00 36	54 57				845009
32714	NEW ORLEANS, LA.	0030	9 01	4 26 53			0 00	41 00		845302
34346	N. CANTON, OHIO	8584	9 01	4 27 02.9	18 52 48	43 48				845032
33415	SACRAMENTO, CAL.	8517	9 01	4 27 23.3	1 04 00	21 58				641013
51475	MANHATTAN, KAN.	8110	9 01	4 27 28.3	23 44 48	46 20				845009
32717	ROCHESTER, N.Y.	8585	9 01	4 27 29.0	19 09 00	32 12				845032
32828	DENVER, COLO.	8582	9 01	4 27 45			74 45 00	35 00		845303
32861	DALLAS, TEX.	0129	9 01	4 27 45.1	1 04	59 00				845043
32862	SAN JOSE, CAL.	8573	9 01	6 22 15.5	15 23 49	58 51				845002
32863	SAN JOSE, CAL.	8573	9 01	6 22 51.8	17 08 39	65 15				845002
33103	VAN NUYS, CAL.	0113	9 01	6 24 25.8	18 21 28	71 18				845041
32864	SAN DIEGO, CAL.	0133	9 01	6 25 02.8	18 49	15 00				845042
33104	VAN NUYS, CAL.	0113	9 01	6 25 33.9	21 26 04	78 35				845043
51476	MANHATTAN, KAN.	8110	9 01	6 25 48.5	17 39 13	29 51				845009
34316	SACRAMENTO, CAL.	8517	9 01	6 26 02.5	22 59 12	50 27				641013
32865	WHITTIER, CAL.	8566	9 01	6 26 02.6			8 25 48	53 37 48		845303
10530	VILLA OLORES, ARG	9011	9 01	6 55 30.90	3 54 48	16 57				434013
10542	AREQUIPA, PERU	9007	9 01	8 53 45.57	23 57 42	-21 00				434013
10543	AREQUIPA, PERU	9007	9 01	8 53 59.94	0 02 42	-23 12				434023
33950	SAN JUAN, ARG.	0812	9 01	9 01 00.0	4 11 42	-34 18				845042
33951	SAN JUAN, ARG.	0812	9 01	9 02 20.0	5 22 24	-41 24				845042
10544	AREQUIPA, PERU	9007	9 01	9 02 57.45	7 54 30	-44 33				434023
10551	VILLA OLORES, ARG	9011	9 01	9 06 57.07	8 31 00	-47 11				434023
33815	IARAOA, JAPAN	0250	9 01	10 08 43	13 22	55				845002
33816	MTZUSAWA, JAPAN	0267	9 01	10 13 00			18 48	49 42		845302
33817	ASAHIKAWA, JAPAN	0201	9 01	10 15 47.4	20 17 00	60 24				845002
33818	SAPPORO, JAPAN	0245	9 01	10 18 15	0 04	28				845002
33819	ASAHIKAWA, JAPAN	0201	9 01	10 22 09.0	0 37 12	-2 24				845002
33820	SAPPORO, JAPAN	0245	9 01	12 11 03	14 30	31				845002
51748	VLADIVOSTOK, URSP	1013	9 01	12 13 27.3	16 46 30	57 48				845009
51749	VLADIVOSTOK, URSP	1013	9 01	12 13 50.4	18 22 30	58 48				845009

OBS NO	STATION	STA NO	DATE	TIME	R. Az	DECL	AZIMUTH	ALTITUDE	RANGE	INDEX
51746	BLAGOVESHCHENSK, USSR	1010	9 01	12 14 44.4	20 22 30	32 00				845009
51812	KONKO, JAPAN	0224	9 01	12 15 28.3	20 42	85 30				845002
51821	MIZUSAWA, JAPAN	0267	9 01	12 16 00			324 06	35 12		845302
51742	BLAGOVESHCHENSK, USSR	1010	9 01	12 18 07.9	25 00 00	16 00				845009
51818	KONKO, JAPAN	0224	9 01	12 20 23			60	28		845302
51742	ASAHIKAWA, JAPAN	0201	9 01	12 20 34.0	23 42	23				845042
51822	SAPPORO, JAPAN	0245	9 01	14 16 47	17 13	23				845002
51750	CHATTANOOGA, TENN.	0062	9 01	14 17 40			153	85		845301
51743	ASAHIKAWA, JAPAN	0201	9 01	14 18 54.0	10 23 30	21 30				845042
51743	BAKU, USSR	1007	9 01	16 03 21.3	18 40 12	11 30				845009
51740	SVERDLOVSK, USSR	1045	9 01	16 04 19.8	15 42 42	5 42				845009
51744	ORENBURG, USSR	1063	9 01	16 06 18.1	17 18 30	23 42				845009
51745	ORENBURG, USSR	1063	9 01	16 06 28.5	17 29 30	26 06				845009
51757	STALINABAD, USSR	1068	9 01	16 06 50.1	13 48 18	49 16				845009
10548	SHIRAZ, IRAN	9008	9 01	16 06 54.89	4 59 00	85 23				434013
51742	BAKU, USSR	1007	9 01	16 07 05.1	14 04 42	46 30				845009
51756	ALMA-ATA, USSR	1062	9 01	16 10 40.0	15 50 48	34 48				845009
51758	STALINABAD, USSR	1068	9 01	16 10 59.2	21 15 24	76 30				845009
51741	SVERDLOVSK, USSR	1045	9 01	16 11 10.2	20 56 36	10 36				845009
51259	STALINABAD, USSR	1068	9 01	16 14 12.0	0 29 24	45 12				845009
10535	WOOMERA, AUSTR.	9003	9 01	16 53 43.83	6 44 48	-13 49				434013
51284	SYDNEY, AUSTR.	0602	9 01	16 54 26.2	6 42	-17				845042
51232	ICHERNOVITSY, USSR	1062	9 01	18 01 47.6	14 12 12	16 54				845009
51727	UJGOROD, USSR	1055	9 01	18 02 23.0	15 29 00	22 18				845009
51737	ROSTOV, USSR	1041	9 01	18 02 37.2	14 08 30	20 18				845009
51702	KIEV, USSR	1023	9 01	18 03 52.2	14 44 05	15 12				845009
51715	NIKOLAEV, USSR	1071	9 01	18 04 08.1	15 20 00	34 24				845009
51738	ROSTOV, USSR	1041	9 01	18 05 19.1	12 21 00	33 30				845009
51234	RIGA, USSR	1040	9 01	18 06 01.3	19 01 30	12 36				845009
51706	KIEV, USSR	1070	9 01	18 06 31.4	18 32 54	34 24				845009
51703	KIEV, USSR	1023	9 01	18 06 42.8	18 35 24	34 00				845009
51707	KIEV, USSR	1070	9 01	18 06 56.3	19 07 24	34 24				845009
51716	NIKOLAEV, USSR	1071	9 01	18 07 00.8	18 48 00	49 00				845009
51735	RIGA, USSR	1040	9 01	18 07 01.3	19 52 30	12 24				845009
51725	EREVAN, USSR	1018	9 01	18 07 19.9	14 59 00	55 36				845009
51212	NIKOLAEV, USSR	1077	9 01	18 08 29.4	21 01 12	44 24				845009
51736	ONEPROETROVSK, USSR	1017	9 01	18 08 38.5	20 21	40 12				845009
51700	VOLOGDA, USSR	1014	9 01	18 08 54.9	19 31 30	7 24				845009
51726	EREVAN, USSR	1018	9 01	18 11 31.0	22 52 00	55 48				845009
51239	ROSTOV, USSR	1041	9 01	18 12 26.1	23 00 12	25 00				845009
10549	SHIRAZ, IRAN	9008	9 01	18 13 16.46	1 24 18	76 24				434013
51733	ICHERNOVITSY, USSR	1062	9 01	18 13 21.5	23 35 30	16 54				845009
51701	VOLOGDA, USSR	1014	9 01	18 14 00.8	22 31 06	-2 06				845009
51704	TASHKENT, USSR	1075	9 01	18 14 29.6	19 13 00	41 48				845009
51705	TASHKENT, USSR	1075	9 01	18 14 40.5	19 16 30	41 30				845009
51236	WOOMERA, AUSTR.	9003	9 01	18 45 13.98	1 06 48	13 21				434013
10537	WOOMERA, AUSTR.	9003	9 01	18 49 22.42	3 10 54	-16 25				434013
51573	MEUDON, FRANCE	2715	9 01	19 58 40.3			265 31	40 12		637109
51658	BESANCON, FRANCE	2727	9 01	19 59 15.1			272 35	49 00		637109
51574	MEUDON, FRANCE	2715	9 01	19 59 19.1			265 10	43 49		637109
51575	MEUDON, FRANCE	2715	9 01	20 00 14.4			264 31	29 47		637109
51659	BESANCON, FRANCE	2727	9 01	20 00 34.1			272 42	46 33		637109
51660	BESANCON, FRANCE	2727	9 01	20 01 00.0			272 53	29 36		637109
51576	MEUDON, FRANCE	2715	9 01	20 01 50.6			262 14	48 00		637109
51661	BESANCON, FRANCE	2727	9 01	20 02 10.5			273 07	38 38		637109
51577	MEUDON, FRANCE	2715	9 01	20 02 20.6			261 04	46 03		637109
10538	SAN FERNANDO, SP.	9004	9 01	20 03 03.10	2 27 30	82 42				434013
51578	MEUDON, FRANCE	2715	9 01	20 03 09.1			267 46	52 24		637109
51646	BRATISLAVA, CZECH.	5702	9 01	20 03 15.3	14 52 30	43 42				637109
51662	BESANCON, FRANCE	2727	9 01	20 03 26.2			273 41	30 25		637109
51579	MEUDON, FRANCE	2715	9 01	20 04 06.8			248 30	69 55		637109
51663	BESANCON, FRANCE	2727	9 01	20 04 27.7			273 46	64 40		637109
51580	MEUDON, FRANCE	2715	9 01	20 05 12.3			242 55	62 05		637109
51718	UJGOROD, USSR	1055	9 01	20 05 15.6	15 47 36	46 42				845009
51719	UJGOROD, USSR	1055	9 01	20 05 30.5	15 56 00	47 00				845009
51664	BESANCON, FRANCE	2727	9 01	20 05 44.2			273 38	64 43		637109
51581	MEUDON, FRANCE	2715	9 01	20 06 13.4			118 45	73 42		637109
51665	BESANCON, FRANCE	2727	9 01	20 06 42.7			23 49	81 23		637109
51582	MEUDON, FRANCE	2715	9 01	20 07 10.4			105 12	61 06		637109
51666	BESANCON, FRANCE	2727	9 01	20 07 20.2			23 57	71 52		637109
51667	BESANCON, FRANCE	2727	9 01	20 08 36.5			24 16	54 55		637109
51728	UJGOROD, USSR	1055	9 01	20 08 45.2	18 52 30	33 54				845009
51720	UJGOROD, USSR	1055	9 01	20 08 47.6	18 52 30	33 54				845009
51668	BESANCON, FRANCE	2727	9 01	20 09 05.2			24 43	49 56		637109
51721	UJGOROD, USSR	1055	9 01	20 09 37.9	19 40 06	33 44				845009
51583	MEUDON, FRANCE	2715	9 01	20 09 10.7			24 33	39 49		637109
51669	BESANCON, FRANCE	2727	9 01	20 10 00.2			24 33	40 31		637109
51584	MEUDON, FRANCE	2715	9 01	20 10 26.2			27 41	30 07		637109
51722	UJGOROD, USSR	1055	9 01	20 10 56.2	21 44 30	26 00				845009
51585	MEUDON, FRANCE	2715	9 01	20 11 02.0			26 32	46 16		637109
51620	BESANCON, FRANCE	2727	9 01	20 11 51.2			24 53	26 53		637109
51623	BRNO, CZECH.	2720	9 01	20 12 13.8	43 01 06	14 38				739041
51586	MEUDON, FRANCE	2715	9 01	20 12 27.3			25 51	19 00		637109
51671	BESANCON, FRANCE	2727	9 01	20 12 42.7			25 03	21 58		637109
51642	BRATISLAVA, CZECH.	5702	9 01	20 13 00.3	23 46 36	13 41				637109
51729	UJGOROD, USSR	1055	9 01	20 13 10.0	22 58 30	12 36				845009
51674	BRNO, CZECH.	2720	9 01	20 13 17.6	23 30 18	8 48				739041
51587	MEUDON, FRANCE	2715	9 01	22 02 31.7			278 59	16 19		637109
51588	MEUDON, FRANCE	2715	9 01	22 03 07.0			278 00	18 41		637109
51589	MEUDON, FRANCE	2715	9 01	22 04 18.3			274 52	45 01		637109
51590	MEUDON, FRANCE	2715	9 01	22 05 18.1			271 08	31 18		637109
51591	MEUDON, FRANCE	2715	9 01	22 06 23.3			265 02	39 08		637109
51592	MEUDON, FRANCE	2715	9 01	22 07 06.3			259 08	44 51		637109
51730	RIGA, USSR	1040	9 01	22 07 29.8	17 42 18	4 54				845009
51593	MEUDON, FRANCE	2715	9 01	22 08 01.7			247 36	52 24		637109

ONS NO	STATION	STA NO	DATE	TIME	Mo	As	DECL	AZIMUTH	ALTITUDE	SARNO	SHOLE
51724	UJGOROD, USSR	1053	9 01	22 08 13.7	17	12 00	15 44				045009
51724	UJGOROD, USSR	1053	9 01	22 08 36.4	17	33 06	15 00				045009
51594	MEUDON, FRANCE	2715	9 01	22 09 23.0				219 02	60 37		045009
51599	SAN FERNANDO, BN, SP.	9004	9 01	22 09 23.20	22	37 30	68 46				045009
51672	BEGANCON, FRANCE	2727	9 01	22 09 36.35				240 59	50 00		045009
51595	MEUDON, FRANCE	2715	9 01	22 10 12.7				194 19	60 50		045009
51673	BEGANCON, FRANCE	2727	9 01	22 10 22.15				221 42	62 00		045009
51731	RIGA, USSR	1040	9 01	22 10 48.8	19	18 34	- 0 44				045009
51596	MEUDON, FRANCE	2715	9 01	22 11 15.0				160 59	55 50		045009
52866	CINCINNATI, OHIO	8555	9 01	23 34 47.0				341 24	67 18		045009
51597	MEUDON, FRANCE	2715	9 02	0 07 23.4				273 53	13 17		045009
51598	MEUDON, FRANCE	2715	9 02	0 08 03.5				269 26	15 40		045009
10533	OLIFANTSENTINBN, S.AF	9002	9 02	0 43 19.00	4	29 44	- 2 36				045009
34117	SACRAMENTO, CAL.	8547	9 02	1 51 26.1				0 00	74 30		045009
32870	FT. WORTH, TEX.	8539	9 02	1 57 36.0	1	18 00	58 30				045009
32871	DAYTON, OHIO	8557	9 02	1 59 30				344 14	40 14		045009
32893	CHICAGO, ILL.	8550	9 02	1 59 43				359 00	64 30		045009
32895	TERRE HAUTE, IND.	8127	9 02	1 59 47.9				0	54 30		045009
32836	N. CANTON, OHIO	8559	9 02	2 00 30.6	16	18 30	71 10				045009
32837	N. CANTON, OHIO	8584	9 02	2 01 14.2	19	33 40	71 30				045009
32867	CINCINNATI, OHIO	8555	9 02	2 01 20.4	21	59 00	74 48				045009
32876	TERRE HAUTE, IND.	8127	9 02	2 01 37.5				35	46 30		045009
32872	DAYTON, OHIO	8557	9 02	2 03 46				55 13	39 00		045009
32838	N. CANTON, OHIO	8556	9 02	2 06 18.5	0	15	36 42				045009
10547	JUPITER, FLA.	9010	9 02	2 06 25.35	1	57 18	50 34				045009
52003	MADISON, WISC.	8578	9 02	2 07 31.7	0	17 48	45 36				045009
32879	N. CANTON, OHIO	8553	9 02	2 07 42.6	0	17	44 44				045009
51599	CAPE TOWN, S.AFR.	9400	9 02	2 42 42.4	3	46 54	-14 36				045009
51600	CAPE TOWN, S.AFR.	9400	9 02	2 42 37.0	3	44 44	-14 48				045009
10534	OLIFANTSENTINBN, S.AF	9002	9 02	2 43 04.70	1	44 16	-14 00				045009
51601	CAPE TOWN, S.AFR.	9400	9 02	2 43 42.4	4	12 24	-14 44				045009
32881	SAN JOSE, CAL.	8573	9 02	3 52 15.4	12	44 03	40 34				045009
32885	PORTLAND, ORE.	8576	9 02	3 53 13.2	14	27 30	32 06				045009
32882	SAN JOSE, CAL.	8573	9 02	3 54 07.5	17	44 44	56 38				045009
32886	PORTLAND, ORE.	8576	9 02	3 56 18.4	17	44 44	56 48				045009
34110	SACRAMENTO, CAL.	8547	9 02	3 56 19.4	16	44 44	76 64				045009
32883	SAN JOSE, CAL.	8573	9 02	3 56 38.7	16	50 11	64 36				045009
34119	SACRAMENTO, CAL.	8547	9 02	3 56 56.6				0 00	49 66		045009
32888	CHINA LAKE, CAL.	8598	9 02	3 57 52.2				0 00 00	39 16 36		045009
32889	MILWAUKEE, WISC.	8574	9 02	3 57 59.8				291 34	40 34		045009
32893	SAN DIEGO, CAL.	8533	9 02	3 59 07.7	1	20	78 36				045009
32894	DAYTON, OHIO	8557	9 02	3 59 09.5				299 24	40 00		045009
32804	SAN JOSE, CAL.	8573	9 02	3 59 44.6	0	06 25	58 15				045009
32890	MILWAUKEE, WISC.	8574	9 02	3 59 45.1				291 34	49 18		045009
32895	ALBUQUERQUE, N.M.	8579	9 02	4 06 25.4				0 00	40 00		045009
32877	TERRE HAUTE, IND.	8127	9 02	4 06 28.0				208	49 20		045009
32891	MILWAUKEE, WISC.	8574	9 02	4 06 08.3				291 40	40 44		045009
32896	DALLAS, TEX.	8129	9 02	4 06 45.36	10	11 00	84 36				045009
32892	MILWAUKEE, WISC.	8574	9 02	4 06 56.7				451 66	58 48		045009
32898	WHITTIER, CAL.	8566	9 02	4 07 55.4				50 21 00	46 25 44		045009
32878	TERRE HAUTE, IND.	8127	9 02	4 08 17.6				315	54 20		045009
32899	LAS CRUCES, N.M.	8583	9 02	4 08 23.5	1	23	60 00				045009
32887	PORTLAND, ORE.	8576	9 02	4 08 27.5	23	07 00	14 48				045009
32874	CHICAGO, ILL.	8550	9 02	4 08 13				40 60	47		045009
52004	MADISON, WISC.	8578	9 02	4 08 30.3	22	11 00	34 42				045009
32897	DALLAS, TEX.	8129	9 02	4 08 01.0	1	10 39	53 00				045009
32900	DENVER, COLO.	8582	9 02	4 08 03.6				76 45 00	49 45 00		045009
32880	N. CANTON, OHIO	8559	9 02	4 08 16.4	20	29 15	41 06				045009
32928	PORTLAND, ORE.	8576	9 02	4 08 16.6	16	41 30	36				045009
32929	PORTLAND, ORE.	8576	9 02	4 08 43.2	20	08 00	36 48				045009
34120	SACRAMENTO, CAL.	8547	9 02	4 08 40.2	14	34 12	61 24				045009
32930	PORTLAND, ORE.	8576	9 02	4 08 07.6	21	40 00	22 12				045009
34121	SACRAMENTO, CAL.	8547	9 02	4 08 11.1	23	29 30	46 31				045009
32901	DENVER, COLO.	8582	9 02	4 08 24.3				264 30	57 15 00		045009
33954	SAN JUAN, ARG.	8812	9 02	6 36 00.6	5	08 36	1 54				045009
10580	VILLA DOLORES, BN, ARG	9011	9 02	6 37 08.11	5	15 36	- 2 31				045009
33957	SAN JUAN, ARG.	8812	9 02	6 38 35.8	5	57 42	- 8 00				045009
34122	SACRAMENTO, CAL.	8547	9 02	6 38 26.8	16	32 24	27 45				045009
34123	SACRAMENTO, CAL.	8547	9 02	6 38 54.6	17	13 42	28 42				045009
10581	AREQUIPA, BN, PERU	9007	9 02	6 38 10.70	0	44 36	-36 33				045009
10581	VILLA DOLORES, BN, ARG	9011	9 02	6 38 46.79	3	20 06	-32 39				045009
33955	SAN JUAN, ARG.	8812	9 02	6 39 00.3	4	23 34	-34 00				045009
33956	SAN JUAN, ARG.	8812	9 02	6 40 20.0	5	31 48	-40 60				045009
33953	SAN JUAN, ARG.	8812	9 02	6 42 52.5	7	27 42	-43 12				045009
33823	MITAKA, JAPAN	0229	9 02	9 42 12.4				286 06	16 34		045009
33824	MITAKA, JAPAN	0229	9 02	9 45 12.4				304 14	10 42		045009
33825	MITAKA, JAPAN	0229	9 02	9 46 26.4				316 42	16 30		045009
33826	MITAKA, JAPAN	0229	9 02	9 48 26.7				345 24	42 06		045009
33832	MIZUSAWA, JAPAN	0267	9 02	9 49 03				343 12	53 36		045009
33833	MIGASHIMA, SUTAMA, JAP	0210	9 02	9 49 24.0				1 30	42 18		045009
33827	MITAKA, JAPAN	0229	9 02	9 50 06.5				11 18	39 42		045009
33830	SAPPORO, JAPAN	0245	9 02	9 52 34	24	20	49				045009
33828	MITAKA, JAPAN	0229	9 02	9 52 30.5				39 42	27 42		045009
33829	MITAKA, JAPAN	0229	9 02	9 58 39.4				63 03	5 12		045009
32931	TAIPEI, TAIWAN	0502	9 02	11 46 35.6	11	21 18	61 36				045009
32932	MITAKA, JAPAN	0229	9 02	11 47 37.7				305 36	13 00		045009
10546	TOKYO, BN, JAPAN	9005	9 02	11 51 58.10	14	10 18	64 58				045009
33834	MITAKA, JAPAN	0229	9 02	11 52 21.8				332 42	35 36		045009
32932	TAIPEI, TAIWAN	0502	9 02	11 53 00.4	2	23 18	61 36				045009
33845	MIGASHIMA, SUTAMA, JAP	0210	9 02	11 54 23.9				0 18	45 00		045009
33840	MITAKA, JAPAN	0229	9 02	11 54 24.73				33	44 16		045009
33835	MITAKA, JAPAN	0229	9 02	11 54 43.8				5 06	44 54		045009
33844	MITAZAKI, JAPAN	0220	9 02	11 54 44.8	1	23	67 48				045009
33846	MIZUSAWA, JAPAN	0267	9 02	11 55 00				5 30	59 06		045009

OPS NO	STATION	STA NO	DATE	TIME	R. A.	DECL.	AZIMUTH	ALTITUDE	RANGE	INDEX
33836	MITAKA, JAPAN	0229	9 02	12 55 30.2			18 40	45 16		845005
33839	ASAHIKAWA, JAPAN	0201	9 02	12 55 38.5	21 00	49 26				845002
33841	SAPPORO, JAPAN	0243	9 02	12 55 50	21 48	49				845002
33843	KANAYA MACHI, JAPAN	0220	9 02	12 56 05	0 53	60				845002
33844	YAKUDA, JAPAN	0250	9 02	12 56 11	23 54	60				845002
33837	MITAKA, JAPAN	0229	9 02	12 56 11.0			30 30	64 12		845005
33838	MITAKA, JAPAN	0229	9 02	12 56 13.7			56 34	39 34		845005
33844	ASAHIKAWA, JAPAN	0201	9 02	12 56 30.0	43 30	23				845002
33847	KIEV, USSR	1070	9 02	12 56 05.6	16 26 00	44 48				845009
33847	MITAKA, JAPAN	0229	9 02	12 55 27.0			303 30	17 00		845002
33848	MITAKA, JAPAN	0229	9 02	12 54 17.8			303 30	21 30		845002
33851	ASAHIKAWA, JAPAN	0201	9 02	12 54 39.0	17 13 30	24 48				845002
33853	TAIPEI, TAIWAN	0307	9 02	12 55 41.0	4 15	89 06				845042
33857	SAPPORO, JAPAN	0243	9 02	12 57 06	18 35	24				845002
33850	MITAKA, JAPAN	0229	9 02	12 57 07.9			304 12	42 30		845005
10568	SHIRAZ, IRAN	9008	9 07	15 43 56.43	9 04 30	84 43				845013
51783	TASHKENT, USSR	1075	9 02	15 49 06.4	14 15 00	46 18				845009
51784	TASHKENT, USSR	1675	9 07	15 49 14.4	24 30 00	65 24				845009
51785	TASHKENT, USSR	1775	9 02	15 53 49.1	0 35 00	8 42				845009
51769	ONEPROFETROVSK, USSR	1017	9 07	17 42 15.8	15 16	49 46				845009
51781	ROSTOV, USSR	1041	9 02	17 43 12.6	15 14 00	33 48				845009
51782	ROSTOV, USSR	1041	9 02	17 43 41.5	15 36 00	36 46				845009
51790	TEHRAN, USSR	1061	9 02	17 45 22.6	16 33 00	39 48				845009
51777	EREVAN, USSR	1018	9 02	17 45 77.3	15 42 30	60 44				845009
51772	VOLOGDA, USSR	1014	9 02	17 47 22.9	24 32 30	6 18				845009
51789	TEHRAN, USSR	1061	9 02	17 47 37.3	21 09 30	49 30				845009
51771	ISILIST, USSR	1053	9 02	17 48 78.9	21 17 30	62 44				845009
51786	TASHKENT, USSR	1075	9 02	17 48 56.2	15 17 00	37 44				845009
51770	ONEPROFETROVSK, USSR	1017	9 02	17 48 59.0	24 46 30	46 30				845009
51778	EREVAN, USSR	1018	9 02	17 50 32.2	23 45 00	46 44				845009
10569	SHIRAZ, IRAN	9008	9 02	17 50 54.16	1 43 42	76 17				845013
51773	VOLOGDA, USSR	1014	9 02	17 51 37.6	24 02 00	4 34				845009
51788	TASHKENT, USSR	1075	9 02	17 52 07.9	16 36 30	44 00				845009
10556	WOODCRAFT, AUST.	9003	9 02	18 24 41.63	1 53 42	3 19				845013
32934	TOWNSVILLE, AUST.	8578	9 02	18 26 21.8	6 24	43 18				845041
34124	TOWNSVILLE, AUST.	8578	9 02	18 28 18.9			196 16	46 40		845002
34125	TOWNSVILLE, AUST.	8578	9 02	18 28 24.6			174 44	46 44		845002
34126	TOWNSVILLE, AUST.	8578	9 07	18 28 23.5			193 44	45 33		845002
34163	SYDNEY, AUST.	0602	9 02	18 35 38.5	6 50	-5. 00				845044
34164	SYDNEY, AUST.	0602	9 02	18 37 47.0	9 34 30	-5. 24				845044
31674	BESANCON, FRANCE	2727	9 02	19 35 07.75			271 05	10 49		845009
31675	BESANCON, FRANCE	2727	9 02	19 36 20.65			271 41	46 05		845009
31682	MEUDON, FRANCE	2715	9 02	19 36 48.95			264 44	44 30		845109
31676	BESANCON, FRANCE	2727	9 02	19 37 12.45			271 34	40 47		845009
31684	MEUDON, FRANCE	2715	9 02	19 37 47.1			263 49	49 04		845109
31677	BESANCON, FRANCE	2727	9 02	19 38 33.35			271 44	45 24		845009
31684	MEUDON, FRANCE	2715	9 02	19 38 57.35			264 07	36 30		845109
31678	BESANCON, FRANCE	2727	9 02	19 39 05.30			271 59	34 44		845009
31679	POISSAM, GER.	2729	9 02	19 39 24.8	14 48 42	13 03				845049
31679	MEUDON, FRANCE	2715	9 02	19 39 46.4			260 49	45 44		845109
31679	BERLIN, GER.	0700	9 02	19 39 58.7			256 06	46 44		845002
31679	BESANCON, FRANCE	2727	9 02	19 40 25.25			271 40	44 09		845009
31676	MEUDON, FRANCE	2715	9 02	19 40 47.9			256 46	37 40		845109
31680	BESANCON, FRANCE	2727	9 02	19 41 04.5			272 49	50 34		845009
31674	RIGA, USSR	1040	9 02	19 41 11.3	15 44 00	7 34				845009
31687	MEUDON, FRANCE	2715	9 02	19 41 47.7			246 36	69 44		845109
31681	BESANCON, FRANCE	2727	9 02	19 42 12.75			273 00	65 42		845009
31688	MEUDON, FRANCE	2715	9 02	19 42 46.3			196 36	61 45		845109
31682	BESANCON, FRANCE	2727	9 02	19 43 11.0			274 09	60 43		845009
31686	BERLIN, GER.	0700	9 02	19 43 31.7			229 34	53 30		845002
31689	MEUDON, FRANCE	2715	9 02	19 43 54.0			116 41	73 03		845109
31683	BESANCON, FRANCE	2727	9 02	19 44 05.5			86 49	65 05		845009
31779	VIENTIANE, USSR	1012	9 07	19 44 18.0	17 01 00	14 44				845009
31775	RIGA, USSR	1040	9 02	19 44 24.6	17 27 00	13 36				845009
31610	MEUDON, FRANCE	2715	9 02	19 44 26.7			106 06	65 55		845109
31684	BESANCON, FRANCE	2727	9 02	19 45 03.3			92 00	70 17		845009
32937	BERLIN, GER.	0700	9 02	19 45 04.7			192 00	64 34		845002
31694	POISSAM, GER.	2729	9 07	19 45 10.4	19 39 30	74 51				845049
31681	MEUDON, FRANCE	2715	9 02	19 45 12.5			102 10	56 03		845109
31685	BESANCON, FRANCE	2727	9 02	19 46 12.77			94 36	24 54		845009
31612	MEUDON, FRANCE	2715	9 02	19 46 17.1			96 34	44 44		845109
31686	BESANCON, FRANCE	2727	9 02	19 47 03.25			94 55	45 36		845009
32938	BERLIN, GER.	0700	9 02	19 47 17.9			140 00	30 46		845002
31613	MEUDON, FRANCE	2715	9 02	19 47 23.8			96 44	34 46		845109
31776	RIGA, USSR	1040	9 07	19 47 31.6	19 48 18	7 18				845009
31775	BRNO, CZECH.	2720	9 02	19 47 49.4	21 23 48	27 12				737041
31775	UGOROD, USSR	1055	9 02	19 47 59.3	20 27 30	30 42				845009
31687	BESANCON, FRANCE	2727	9 02	19 48 06.0			93 10	36 17		845009
31684	MEUDON, FRANCE	2715	9 02	19 48 13.0			95 51	28 49		845109
31683	UGOROD, USSR	1055	9 02	19 48 20.3	20 53 30	28 36				845009
31688	BESANCON, FRANCE	2727	9 02	19 49 07.5			93 43	28 46		845009
31615	MEUDON, FRANCE	2715	9 02	19 49 14.4			95 08	42 41		845109
31780	VIENTIANE, USSR	1012	9 06	19 49 17.7	40 54 30	6 42				845009
31689	BESANCON, FRANCE	2727	9 02	19 50 09.5			93 38	22 35		845009
31616	MEUDON, FRANCE	2715	9 02	19 50 17.6			94 41	17 19		845109
31690	BESANCON, FRANCE	2727	9 02	19 51 11.5			94 51	11 19		845009
31692	POISSAM, GER.	2729	9 02	19 51 27.3	43 70 12	2 50				845049
31776	BRNO, CZECH.	2720	9 02	19 51 32.3	23 37	7 24				845040
31700	WASHINGTON, D.C.	5097	9 02	20 36 07	13 31	49 24				847009
31701	WASHINGTON, D.C.	5092	9 02	20 38 21	15 32	71 07				847009
31617	MEUDON, FRANCE	2715	9 02	21 40 16.0			278 50	16 14		847109
31691	BESANCON, FRANCE	2727	9 02	21 40 35.04			283 52	13 21		845009
31618	MEUDON, FRANCE	2715	9 02	21 41 12.0			276 34	40 49		847109
31692	BESANCON, FRANCE	2727	9 02	21 41 13.95			282 34	16 21		845009

OBS NO	STATION	STA NO	DATE	TIME	Mo	As	DECL	AZIMUTH	ALTITUDE	RANGE	INDEX
31693	BESANCON, FRANCE	2727	9 02	21 42 00.05				261 09 50	20 08		037009
31619	NEUDON, FRANCE	2715	9 02	21 42 08.8				274 42	26 11		037105
31620	NEUDON, FRANCE	2715	9 02	21 43 06.3				210 45	32 29		037209
31694	BESANCON, FRANCE	2727	9 02	21 43 27.35				277 49	26 31		037309
31648	BRATISLAVA, CZECH.	3702	9 02	21 43 29.6	15	53 00	17 48				037409
31695	BESANCON, FRANCE	2727	9 02	21 44 01.77				273 09	32 19		037509
31621	NEUDON, FRANCE	2715	9 02	21 44 01.8				265 43	29 40		037609
31622	NEUDON, FRANCE	2715	9 02	21 45 07.1				256 06	48 30		037709
31696	BESANCON, FRANCE	2727	9 02	21 45 15.06				268 48	41 46		037809
32989	BERLIN, GER.	0700	9 02	21 45 45.8				256 24	26 54		037909
31697	BESANCON, FRANCE	2727	9 02	21 46 02.53				261 17	48 54		038009
10561	SAN FERNANDO BN, SP.	9004	9 02	21 46 04.60	20	05 46	74 49				038109
31623	NEUDON, FRANCE	2715	9 02	21 46 08.1				240 34	56 54		038209
31624	NEUDON, FRANCE	2715	9 02	21 47 09.66				214 16	67 31		038309
32940	BERLIN, GER.	0700	9 02	21 47 32.4				240 36	34 30		038409
31698	BESANCON, FRANCE	2727	9 02	21 47 45.14				249 46	62 31		038509
31625	NEUDON, FRANCE	2715	9 02	21 48 10.8				165 06	61 24		038609
31699	BESANCON, FRANCE	2727	9 02	21 48 32.38				204 48	64 55		038709
31626	NEUDON, FRANCE	2715	9 02	21 49 10.6				160 59	54 49		038809
31649	BRATISLAVA, CZECH.	3702	9 02	21 49 29.6	19	46 33	13 27				038909
10562	SAN FERNANDO BN, SP.	9004	9 02	21 49 49.40	0	53 18	40 24				039009
32941	BERLIN, GER.	0700	9 02	21 50 77.4				201 24	38 48		039109
31627	NEUDON, FRANCE	2715	9 02	23 44 45.0				274 35	12 33		039209
31628	NEUDON, FRANCE	2715	9 02	23 45 09.4				272 36	15 52		039309
31629	NEUDON, FRANCE	2715	9 02	23 46 04.4				267 44	16 53		039409
31630	NEUDON, FRANCE	2715	9 02	23 47 07.1				261 09	20 13		039509
32942	ALBUQUERQUE, N.M.	0579	9 03	1 32 36.7				0 00	43 30		039609
34347	N. CANTON, OHIO	0053	9 03	1 33 18.9	13	13 10	32 53				039709
34348	N. CANTON, OHIO	0053	9 03	1 35 45.4	14	05	56 48				039809
34349	N. CANTON, OHIO	0053	9 03	1 35 55.4	14	12	52 00				039909
32946	BILLOXI, MISS.	0090	9 03	1 37 02				0	26 00		040009
32947	STATE COLLEGE, PA.	0060	9 03	1 37 38.2				320 56	46 00		040109
32948	N. CANTON, OHIO	0053	9 03	1 37 50.2	16	47 30	69 00				040209
32952	TERRE HAUTE, IND.	8121	9 03	1 38 00				12 45	51 30		040309
32868	CINCINNATI, OHIO	0050	9 03	1 38 06	19	13	77 49				040409
32949	N. CANTON, OHIO	0053	9 03	1 38 37.6	16	37	72 12				040509
32950	N. CANTON, OHIO	0053	9 03	1 38 49.2	15	44	71 48				040609
32957	ROCHESTER, N.Y.	8585	9 03	1 39 39.3	19	34 00	63 11				040709
32951	N. CANTON, OHIO	0053	9 03	1 40 35.5	14	30 50	58 34				040809
32953	TERRE HAUTE, IND.	8127	9 03	1 42 48.4				65 30	44 45		040909
32139	WESTFIELD P, MASS.	5021	9 03	1 46 02	0	45	21 36				041009
10579	JUPITER BN, FLA.	9010	9 03	1 46 02.34	1	43 06	38				041109
10552	OLIFANTSFN BN, S. AF.	9002	9 03	2 19 40.60	0	48 24	-29 57				041209
32964	PITTSBURGH, PA.	0059	9 03	2 42 01.7	17	38	46 24				041309
32965	SAN JOSE, CAL.	8573	9 03	3 30 28.7	12	54 03	43 32				041409
32968	SAN DIEGO, CAL.	0133	9 03	3 36 12	12	12	57 18				041509
32972	MILWAUKEE, WISC.	0074	9 03	3 35 42.7				291 18	10 40		041609
32975	PORTLAND, ORE.	0076	9 03	3 34 55.1	7	44 00	53 48				041709
32145	SACRAMENTO, CAL.	8517	9 03	3 34 33.4				0 00	49 12		041809
32978	LAWTON, OKLA.	0110	9 03	3 35 04.6				344 55 40	47 34 40		041909
32969	SAN DIEGO, CAL.	0133	9 03	3 35 39.0	6	00	88 36				042009
32959	N. CANTON, OHIO	0053	9 03	3 36 36.7	14	33 30	29 24				042109
32981	CALGARY, CAN.	0452	9 03	3 36 33.4	16	48 00	21 06				042209
32960	N. CANTON, OHIO	0053	9 03	3 37 31.8	14	52 10	32 35				042309
32961	N. CANTON, OHIO	0053	9 03	3 38 30.0	14	58	33 36				042409
32966	SAN JOSE, CAL.	8573	9 03	3 38 54.2	0	06 55	54 55				042509
32973	MILWAUKEE, WISC.	0074	9 03	3 38 35.9				292 42	36 48		042609
32974	PORTLAND, ORE.	0076	9 03	3 39 01.2	23	01 00	29 30				042709
32979	LAWTON, OKLA.	0110	9 03	3 39 09.1	23	45 00	24 48	348 37 14	36 48 36		042809
32977	PORTLAND, ORE.	0076	9 03	3 39 27.6	23	45 00	24 48				042909
32980	LAWTON, OKLA.	0110	9 03	3 40 05.9	0	45 15	37 59	17 58 46	42 40 12		043009
33105	VAN NUYS, CAL.	0113	9 03	3 41 20.2	0	56 15	37 59				043109
32967	SAN JOSE, CAL.	8573	9 03	3 41 24.9	0	36 19	29 06				043209
32984	NEW ORLEANS, LA.	0010	9 03	3 42 01				0 00	36 30		043309
32985	CHICAGO, ILL.	0020	9 03	3 42 34.5	20	28	48 40				043409
32962	N. CANTON, OHIO	0053	9 03	3 42 39.7	18	43 12	47 12				043509
32954	TERRE HAUTE, IND.	8127	9 03	3 42 45.8				0	73 19		043609
32986	CHICAGO, ILL.	0020	9 03	3 42 46.4	20	47	46 30				043709
32963	N. CANTON, OHIO	0053	9 03	3 43 29	14	45 30	45 47				043809
32974	MILWAUKEE, WISC.	0074	9 03	3 43 29.2				109 30	76 06		043909
32849	CINCINNATI, OHIO	0050	9 03	3 44 00	21	36 06	50 05				044009
32989	ROANOKE, VA.	0073	9 03	3 44 12	21	10	57 02				044109
32805	MADISON P, WISC.	5078	9 03	3 44 12.7	22	40 24	29 42				044209
32720	WESTFIELD P, MASS.	5021	9 03	3 44 14	18	59 30	31 00				044309
32958	ROCHESTER, N.Y.	8585	9 03	3 44 19.1	20	12 54	31 09				044409
32982	CALGARY, CAN.	0452	9 03	3 44 24	23	46 42	3 12				044509
32987	CHICAGO, ILL.	0020	9 03	3 45 22.8	22	32	33 40				044609
32970	SAN DIEGO, CAL.	0133	9 03	3 46 14.6	13	59	49 36				044709
32993	SAN JOSE, CAL.	8573	9 03	3 47 15.8	16	23 24	63 36				044809
32983	CALGARY, CAN.	0452	9 03	3 47 45.7	11	31 24	19 24				044909
32995	CALGARY, CAN.	0452	9 03	3 47 52.0	17	32 24	19 30				045009
32994	SAN JOSE, CAL.	8573	9 03	3 48 14.3	18	22 00	70 12				045109
32997	PORTLAND, ORE.	0076	9 03	3 49 37.1	20	18 00	39 48				045209
32146	SACRAMENTO, CAL.	8517	9 03	3 49 44.5				0 00	61 49		045309
32998	PORTLAND, ORE.	0076	9 03	3 49 59.4	22	40 00	22 12				045409
32988	N. CANTON, OHIO	0053	9 03	3 49 55.3	17	30 48	12 50				045509
32999	PORTLAND, ORE.	0076	9 03	3 49 55.8	23	03 00	18 12				045609
32996	CALGARY, CAN.	0452	9 03	3 49 59.2	22	18	-0 24				045709
32971	SAN DIEGO, CAL.	0133	9 03	3 49 52.8	22	55	63 00				045809
33937	SAN JUAN, ARG.	0812	9 03	6 29 00.0	6	33 12	-14 48				045909
33958	SAN JUAN, ARG.	0812	9 03	6 20 20.0	6	55 42	-17 12				046009
10582	VILLA ODORES BN, ARG.	9011	9 03	8 12 22.63	0	52 18	1 14				046109
10572	AREQUIPA BN, PERU	9007	9 03	8 15 00.04	4	27 06	-61 54				046209
33959	SAN JUAN, ARG.	0812	9 03	8 18 00.00	5	25 18	-37 06				046309

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10583	VILLA DOLORES, ARG.	9031	9 03	8 21 03.59	7 15 06	-37 10				845023
33960	SAN JUAN, ARG.	0612	9 03	8 22 23.6	8 12 18	-40 07				845042
33853	MITAKA, JAPAN	0229	9 03	9 24 01.9			315 24	37 14		845033
33854	MITAKA, JAPAN	0229	9 03	9 25 07.1			320 12	41 14		845035
33855	MITAKA, JAPAN	0229	9 03	9 26 01.0			344 36	42 42		845038
33856	MITAKA, JAPAN	0229	9 03	9 27 07.4			28 20	34 30		845039
33857	MITAKA, JAPAN	0229	9 03	11 29 03.6			344 54	30 36		845033
33866	YOKKAICHI, JAPAN	0258	9 03	11 30 04	14 42	87				845062
33858	MITAKA, JAPAN	0229	9 03	11 30 27.4			337 30	37 14		845033
33865	KONKO, JAPAN	0224	9 03	11 30 36	17 55	87 18				845060
33859	MITAKA, JAPAN	0229	9 03	11 31 46.8			356 36	42 48		845032
33863	MUSASHINO, JAPAN	0233	9 03	11 34 00			0 00	43 48		845062
33862	ASAHIKAWA, JAPAN	0201	9 03	11 35 24.4	41 00	49				845004
33867	KAGOSHIMA, JAPAN	0218	9 03	11 37 04	1 43 30	33 30				845002
33861	MITAKA, JAPAN	0229	9 03	11 37 35.3			66 06	46 46		845062
33868	SAPPORO, JAPAN	0245	9 03	13 34 48.3	18 06	66 44				845002
33869	KAGOSHIMA, JAPAN	0218	9 03	13 35 40	19 47	75 00				845060
33870	HIGASHIHATSUYAMA, JAP	0210	9 03	13 36 06	17 51	60				845004
52855	TASHKENT, USSR	1075	9 03	15 24 33.0	15 54 00	47 60				845009
10570	SHIRAZ, IRAN	9008	9 03	15 25 01.30	1 33 48	79 23				845013
52856	TASHKENT, USSR	1075	9 03	15 27 41.8	16 25 30	57 54				845009
52857	TASHKENT, USSR	1075	9 03	15 29 23.8	15 33 30	41 36				845009
52860	STALINABAD, USSR	1068	9 03	15 29 29.5	0 04 54	45 36				845009
52847	ROSTOV, USSR	1041	9 03	17 05 31.5	10 53 18	40 30				845009
52846	ROSTOV, USSR	1041	9 03	17 06 23.4	17 00 24	46 24				845009
52862	KHARKOV, USSR	1060	9 03	17 18 13.9	14 17 00	16 44				845009
52853	KIEV, USSR	1023	9 03	17 18 25.7	14 51 06	19 18				845009
52863	KHARKOV, USSR	1060	9 03	17 20 17.3	15 13 00	46 34				845009
52848	EREVAN, USSR	1018	9 03	17 43 26.4	15 10 00	64 06				845009
52854	KIEV, USSR	1023	9 03	17 45 17.6	14 36 46	44 18				845009
52850	KARAKOLAR, USSR	1027	9 03	17 45 40.2	14 05	54 24				845009
52849	EREVAN, USSR	1018	9 03	17 26 31.7	14 15 00	63 24				845009
52861	STALINABAD, USSR	1068	9 03	17 26 42.1	15 11 00	44 30				845009
52858	TASHKENT, USSR	1075	9 03	17 27 46.5	16 31 30	42 42				845009
52851	KARAKOLAR, USSR	1027	9 03	17 27 51.9	14 09	49 48				845009
10575	SHIRAZ, IRAN	9008	9 03	17 29 07.45	1 42 00	69 51				845013
52859	TASHKENT, USSR	1075	9 03	17 30 40.2	19 13 12	45 24				845009
52864	KHARKOV, USSR	1060	9 03	17 31 44.1	13 56 18	7 36				845009
10557	WOOMERA, AUSTR.	9003	9 03	18 04 51.4	13 22 12	-13 53				845013
34128	TOWNSVILLE, AUSTR.	8276	9 03	18 06 46.7			180 32	44 09		845004
34127	TOWNSVILLE, AUSTR.	8276	9 03	18 06 49.4			180 40	44 02		845004
34165	SYDNEY, AUSTR.	0604	9 03	18 15 44.2	0 43	-41 13				845042
53650	BRATISLAVA, CZECH.	5702	9 03	19 23 44.3	15 48 36	14 56				845047
52872	ICHERNOVITSY, USSR	1062	9 03	19 25 45.7	14 15 00	18 00				845039
53646	LARISSA, GREECE	8113	9 03	19 25 07.9			499 40	17 18		845034
53650	BESANCON, FRANCE	4727	9 03	19 25 17.76			711 51	38 35		845035
53647	LARISSA, GREECE	8113	9 03	19 26 08.4			366 36	30 18		845039
53651	BESANCON, FRANCE	4727	9 03	19 26 08.4			712 49	70 34		845039
53939	FARNHAM, ENGLAND	5046	9 03	19 26 34.4	19 51	30 18				845049
53652	BESANCON, FRANCE	4727	9 03	19 26 34.4			713 11	61 19		845039
52865	UGOROD, USSR	1055	9 03	19 26 35.9	17 02 30	35 24				845039
53653	BESANCON, FRANCE	4727	9 03	19 26 35.9			69 47	73 40		845039
53658	LARISSA, GREECE	8113	9 03	19 26 44.4			317 18	44 14		845039
52866	UGOROD, USSR	1055	9 03	19 26 21.3	18 43 00	35 30				845039
53654	BESANCON, FRANCE	4727	9 03	19 26 22.76			70 51	59 55		845039
53077	BRNO, CZECH.	2720	9 03	19 26 24.9	18 53 30	36 44				737041
53680	LARISSA, GREECE	8113	9 03	19 26 18.9			342 42	50 06		845039
53655	BESANCON, FRANCE	4727	9 03	19 26 20.66			714 41	48 31		845039
53681	LARISSA, GREECE	8113	9 03	19 26 31.4			46 06	50 42		845039
52852	GORKII, USSR	1050	9 03	19 27 33.7	14 39 00	14 14				845039
52873	ICHERNOVITSY, USSR	1062	9 03	19 27 34.2	14 34 30	22 16				845039
52867	UGOROD, USSR	1055	9 03	19 27 47.2	14 46 30	13 30				845039
52868	UGOROD, USSR	1055	9 03	19 28 24.7	13 03 30	15 46				845039
53651	BRATISLAVA, CZECH.	5702	9 03	19 28 43.3	13 02 39	15 03				845042
10576	SHIRAZ, IRAN	9008	9 03	19 29 13.87	16 14 00	53 39				845013
53669	LARISSA, GREECE	8113	9 03	19 29 19.4			715 66	36 30		845039
53682	LARISSA, GREECE	8113	9 03	19 29 26.9			80 12	35 00		845039
53644	BRATISLAVA, CZECH.	5702	9 03	19 30 19	18 41 00	35 00				845042
32806	WOOMERA, AUSTR.	0603	9 03	20 10 12.4			407 30	51 30		845032
32807	WOOMERA, AUSTR.	0603	9 03	20 11 32.8			166 12	49 33		845032
32808	WOOMERA, AUSTR.	0603	9 03	20 13 40.3			163 36	49 00		845032
53702	WASHINGTON, D.C.	5092	9 03	20 14 18	13 53	54 10				845039
53703	WASHINGTON, D.C.	5092	9 03	20 16 11	15 40	72 14				845039
32809	WOOMERA, AUSTR.	0603	9 03	20 17 03.4			142 66	43 30		845032
53652	BRATISLAVA, CZECH.	5702	9 03	21 19 31.8	15 63 04	26 00				845047
10565	SAN FERNANDO, SP.	9004	9 03	21 24 58.90	22 59 30	66 54				845013
53078	BRNO, CZECH.	2720	9 03	21 25 19.7	17 58 30	7 06				737041
53079	BRNO, CZECH.	2720	9 03	21 26 35.7	18 58 06	14 06				737041
53653	BRATISLAVA, CZECH.	5702	9 03	21 27 01.8	19 06 48	15 06				845047
53080	BRNO, CZECH.	2720	9 03	21 28 15.4	19 13 18	7 36				737041
33636	SACRAMENTO, CAL.	8517	9 04	1 06 29.7			0 00	40 42		841304
32943	ALBUQUERQUE, N.M.	8519	9 04	1 10 33.0			0 00	44 12		845033
33000	N. CANTON, OHIO	8536	9 04	1 13 14	13 47 30	49 00				841842
33005	N. CANTON, OHIO	8572	9 04	1 13 16.5	13 45 34	48 54				845032
33008	N. CANTON, OHIO	8536	9 04	1 13 18	13 50	50 00				841842
33011	NEW ORLEANS, LA.	0030	9 04	1 14 34			0 00	28 00		845032
33013	CHICAGO, ILL.	0020	9 04	1 14 44.6	17 38	68 50				845042
33014	CHICAGO, ILL.	0020	9 04	1 14 58.2	18 18	68 30				845042
32843	CINCINNATI, OHIO	8555	9 04	1 15 39.3	18 32 00	76 06				845003
33016	COLUMBUS, OHIO	0051	9 04	1 16 00.6			0	56 06		845033
33009	N. CANTON, OHIO	8536	9 04	1 16 18.7	19 11 30	71 51				841032
32955	TERRE HAUTE, IND.	8127	9 04	1 16 27.9			29 15	47 30		845033
33010	N. CANTON, OHIO	8536	9 04	1 16 36.2	19 35 30	71 30				841032
32990	ROANOK, VA.	0073	9 04	1 16 40	18 37 41	82				845042

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33017	COLUMBUS, OHIO	0051	9 04	1 16 37.9	21 28	70 18				043006
33015	CHICAGO, ILL.	0020	9 04	1 17 30.9	21 37	22 37				043006
33001	N. CANTON, OHIO	0036	9 04	1 17 49	21 45	44 48				043006
33018	COLUMBUS, OHIO	0051	9 04	1 19 27.1	22 32	44 12				043006
33006	N. CANTON, OHIO	0059	9 04	1 21 51.9	0 02 30	28 30				043006
10553	OLIFANTSFENNING, S. AF	9002	9 04	1 25 40.00	0 30 48	-23 48				043006
10554	OLIFANTSFENNING, S. AF	9002	9 04	2 06 10.80	8 39 18	-23 36				043006
33019	SAN DIEGO, CAL.	0133	9 04	3 04 28.0	11 28	54 48				043006
33637	SACRAMENTO, CAL.	0517	9 04	3 10 48.1	14 07 40	69 33				043006
33049	TUCSON, ARIZ.	0003	9 04	3 11 27.3			348 00	23 34		043006
33638	SACRAMENTO, CAL.	0517	9 04	3 12 08.6			0 00	49 25		043006
33106	VAN NUYS, CAL.	0113	9 04	3 12 51.5	16 26	89 01				043006
33052	WHITTIER, CAL.	0566	9 04	3 12 58.5			0 00 00	34 24 36		043006
33020	SAN DIEGO, CAL.	0133	9 04	3 13 12.5	6 00	88 36				043006
33053	DENVER, COLO.	0582	9 04	3 13 38.0			79 30	19 45 00		043006
33050	TUCSON, ARIZ.	0003	9 04	3 16 17.4			19 12	29 42		043006
33007	N. CANTON, OHIO	0059	9 04	3 19 29.0	17 25	48 14				043006
33012	NEW ORLEANS, LA.	0030	9 04	3 19 36			0 00	36 00		043006
32956	TERRE HAUTE, IND.	0127	9 04	3 20 15.4			0	69 38		043006
33054	CHICAGO, ILL.	0020	9 04	3 20 31.2	20 50	47 30				043006
33051	TUCSON, ARIZ.	0003	9 04	3 21 14.1			57 06	14 34		043006
32844	CINCINNATI, OHIO	0555	9 04	3 22 42	22 39 48	41 14				043006
33055	CHICAGO, ILL.	0020	9 04	3 22 46.2	22 01	27 40				043006
33639	SACRAMENTO, CAL.	0517	9 04	3 27 15.3			0 00	59 28		043006
33640	SACRAMENTO, CAL.	0517	9 04	3 27 17.9	20 08 48	68 11				043006
33107	VAN NUYS, CAL.	0113	9 04	3 28 02.4	20 10 29	77 52				043006
33056	WHITTIER, CAL.	0566	9 04	3 28 13.0			0 00 00	46 64 12		043006
33057	CHINA LAKE, CAL.	0098	9 04	3 28 19.0			0 00	52 53 24		043006
52829	MEANOOK, P. CANADA	5450	9 04	3 28 00.6	20 59 12	-0 06				043007
32845	CINCINNATI, OHIO	0555	9 04	3 28 36.7	17 17 54	22 56				043006
52830	MEANOOK, P. CANADA	5450	9 04	3 28 45.4	21 24 36	-2 46				043006
34129	SAN JUAN, ARG.	0812	9 04	3 28 53.0	5 47 36	-9 24				043006
33108	VAN NUYS, CAL.	0113	9 04	3 29 14.6			497 44	27 46		043006
33641	SACRAMENTO, CAL.	0517	9 04	3 29 45.0	17 45	30 06				043006
10584	VILLA DOLORES, B. ARG.	9011	9 04	3 29 45.0	6 49 00	-24 00				043006
33871	MIYAKA, JAPAN	0229	9 04	3 29 01.9			9 42	41 00		043006
10583	AREQUIPA, B. PERU	9007	9 04	3 29 44.38	42 42 24	-61 14				043006
10585	VILLA DOLORES, B. ARG.	9011	9 04	3 29 45.0	1 24 06	-65 36				043006
52869	VLADIVOSTOK, USSR	0013	9 04	3 29 53.1	19 31 00	32 54				043006
10507	TOKYO, JAPAN	9005	9 04	3 29 53.1	13 05 54	57 49				043006
33876	MUSASHINO, JAPAN	0233	9 04	3 29 53.0			0 00	43 12		043006
52870	VLADIVOSTOK, USSR	0013	9 04	3 29 53.0	44 15 00	48 34				043006
33872	MIYAKA, JAPAN	0229	9 04	3 29 53.0			13 30	43 00		043006
33880	KAGOSHIMA, JAPAN	0218	9 04	3 29 53.0	1 02 30	59 42				043006
33878	SAPPORO, JAPAN	0245	9 04	3 29 53.0	41 46	45 34				043006
33873	MIYAKA, JAPAN	0229	9 04	3 29 53.0			31 06	41 24		043006
33874	MIYAKA, JAPAN	0229	9 04	3 29 53.0			55 44	33 06		043006
33879	MIYAZAKI, JAPAN	0230	9 04	3 29 53.0	1 07 30	35 18				043006
33875	MIYAKA, JAPAN	0229	9 04	3 29 53.0			69 34	23 30		043006
33883	SAPPORO, JAPAN	0245	9 04	3 29 53.0	15 47	26 18				043006
33058	TAIPEI, TAIWAN	0504	9 04	3 29 53.0	7 08	87 44				043006
33882	KANATA, MAHIL, JAPAN	0276	9 04	3 29 53.0	15 34	64				043006
33881	ASAHIKAWA, JAPAN	0204	9 04	3 29 53.0	15 17 12	7 06				043006
33885	KAGOSHIMA, JAPAN	0218	9 04	3 29 53.0	42 45	69 42				043006
52871	ABAKAN, USSR	0004	9 04	3 29 53.0	19 41 14	11 30				043006
52878	ROSTOV, USSR	0044	9 04	3 29 53.0	16 26 30	38 34				043006
52868	ASHKABAD, USSR	1006	9 04	3 29 53.0	14 43 30	19 24				043006
52869	ASHKABAD, USSR	1006	9 04	3 29 53.0	15 05 18	45 06				043006
52874	VOLGODA, USSR	1014	9 04	3 29 53.0	17 01 54	7 24				043006
52884	EREVAN, USSR	1028	9 04	3 29 53.0	17 30 30	73 06				043006
52887	DNEPROPETROVSK, USSR	1017	9 04	3 29 53.0	21 13	36 34				043006
52889	SVERDLOVSK, USSR	1045	9 04	3 29 53.0	17 31 42	9 36				043006
52875	VOLGODA, USSR	1014	9 04	3 29 53.0	20 08 30	4 34				043006
52876	IBILISI, USSR	1053	9 04	3 29 53.0	14 27 30	62 46				043006
52885	EREVAN, USSR	1018	9 04	3 29 53.0	14 33 00	64 42				043006
52879	ROSTOV, USSR	1044	9 04	3 29 53.0	16 42 00	43 06				043006
52890	SVERDLOVSK, USSR	1045	9 04	3 29 53.0	17 11 18	9 18				043006
52888	DNEPROPETROVSK, USSR	1017	9 04	3 29 53.0	23 00 30	14 42				043006
50577	SHIRAZ, IRAN	9006	9 04	3 29 53.0	6 44 34	67 44				043006
52896	STALINABAD, USSR	1068	9 04	3 29 53.0	16 46 34	38 30				043006
52897	STALINABAD, USSR	1068	9 04	3 29 53.0	14 50 18	49 46				043006
10558	MOONERAT, SRI LANKA	9003	9 04	3 29 53.0	13 45 42	-15 08				043006
53654	BRAITSLAVA, CZECH.	5702	9 04	3 29 53.0	13 57 09	16 28				043006
52904	ICHERNOVITSI, USSR	1064	9 04	3 29 53.0	13 57 46	17 54				043006
53570	LARISSA, GREECE	8113	9 04	3 29 53.0			497 00	14 40		043006
53571	LARISSA, GREECE	8113	9 04	3 29 53.0			30 40	44 30		043006
51845	BESANCON, FRANCE	2727	9 04	3 29 53.0	16 27 42.71		271 49	70 32		043006
51846	BESANCON, FRANCE	2727	9 04	3 29 53.0	16 28 04.68		172 39	76 10		043006
51847	BESANCON, FRANCE	2727	9 04	3 29 53.0	16 27 27.93		86 19	64 60		043006
52891	LVQV, USSR	1031	9 04	3 29 53.0	15 36 00	27 00				043006
51848	BESANCON, FRANCE	2727	9 04	3 29 53.0	16 27 42.71		65 09	65 43		043006
53572	LARISSA, GREECE	8113	9 04	3 29 53.0			321 30	44 42		043006
52892	LVQV, USSR	1031	9 04	3 29 53.0	16 27 42.71		340 18	52 12		043006
53573	LARISSA, GREECE	8113	9 04	3 29 53.0						043006
52898	KTEV, USSR	1023	9 04	3 29 53.0	17 17 48	-44 34				043006
53583	LARISSA, GREECE	8113	9 04	3 29 53.0			353 00	57 48		043006
51849	BESANCON, FRANCE	2727	9 04	3 29 53.0			91 09	41 40		043006
52882	SARATOV, USSR	1044	9 04	3 29 53.0	17 41 44	14 46				043006
53655	BRAITSLAVA, CZECH.	5702	9 04	3 29 53.0	14 50	16 44				043006
53584	LARISSA, GREECE	8113	9 04	3 29 53.0			37 36	56 34		043006
52910	ASHKABAD, USSR	1006	9 04	3 29 53.0	18 59 00	1 24				043006
52899	KIEV, USSR	1073	9 04	3 29 53.0	16 42 11	-48 00				043006
52880	ROSTOV, USSR	1041	9 04	3 29 53.0	18 45 06	40 30				043006
52905	ICHERNOVITSI, USSR	1064	9 04	3 29 53.0	21 31 42	19 24				043006
53585	LARISSA, GREECE	8113	9 04	3 29 53.0			69 30	42 30		043006

000 NO	STATION	STA NO	DATE	TIME	Mo	Sec	DECL	AZIMUTH	ALTITUDE	RANGE	INCHES
51631	MEUDON, FRANCE	2715	9 04	19 06 16.3	18	18 00	45 18	91 57	12 38		637109
52885	EREVAN, USSR	1018	9 04	19 06 23.7	18	18 00	45 18				845009
52911	ASHKABAD, USSR	1006	9 04	19 06 74.2	28	36 30	13 00				845009
55586	LARISSA, GREECE	8113	9 04	19 06 53.9				75 30	37 06		845309
52893	LVOV, USSR	1031	9 04	19 07 17.8	22	43 30	7 18				845009
52886	DNEPROPETROVSK, USSR	1017	9 04	19 07 20.9	20	50 48	17 48				845009
51632	MEUDON, FRANCE	2715	9 04	19 07 28.2				91 40	8 26		637109
52881	ROSTOV, USSR	1041	9 04	19 07 36.4	21	03 12	14 12				845009
53587	LARISSA, GREECE	8113	9 04	19 07 37.9				79 34	34 18		845309
50578	SHIRAZ, IRAN	9008	9 04	19 07 49.38	16	41 06	39 45				436013
51633	MEUDON, FRANCE	2715	9 04	19 08 00.2				91 38	6 34		637109
52877	TBILISI, USSR	1053	9 04	19 08 21.7	20	44 36	33 48				845009
35284	BOCHUM, GER.	8599	9 04	19 09 6.1	19	31 48	28 24				845002
35061	WOOMERA, AUSTR.	0609	9 04	19 42 12.7				268 30	30 30		845302
33062	WOOMERA, AUSTR.	0605	9 04	19 44 32.0				252 06	43 00		845302
33063	WOOMERA, AUSTR.	0603	9 04	19 47 11.1				215 24	53 18		845302
10559	WOOMERA, AUSTR.	9003	9 04	19 47 18.13	1	11 00	-57 48				436023
33064	WOOMERA, AUSTR.	0603	9 04	19 51 49.2				184 36	37 06		845302
51634	MEUDON, FRANCE	2715	9 04	20 58 38.3				269 45	35 20		637109
51635	MEUDON, FRANCE	2715	9 04	20 59 03.5				267 37	39 09		637109
51636	MEUDON, FRANCE	2715	9 04	21 00 04.1				260 18	47 31		637109
51637	MEUDON, FRANCE	2715	9 04	21 01 39.0				254 30	64 51		637109
10563	SAN FERNANDO, SP.	9004	9 04	21 01 56.00	22	06 00	73 43				436013
52894	LVOV, USSR	1031	9 04	21 02 31.4	17	01 00	43 54				845009
51638	MEUDON, FRANCE	2715	9 04	21 02 31.7				216 29	66 62		637109
51639	MEUDON, FRANCE	2715	9 04	21 03 03.9				186 49	65 45		637109
52901	UGOROD, USSR	1055	9 04	21 03 08.8	17	22 00	16 06				845009
53940	FARNHAM, ENGLAND	8048	9 04	21 03 16.2	20	36 54	15 12				845049
52906	TCHERNOVITSY, USSR	1062	9 04	21 03 48.1	17	31 00	14 36				845009
51640	MEUDON, FRANCE	2715	9 04	21 04 02.4				159 45	59 01		637109
52903	ROSTOV, USSR	1041	9 04	21 04 28.2	17	14 00	11 03				845009
51641	MEUDON, FRANCE	2715	9 04	21 05 07.5				143 36	49 40		637109
52900	KIEV, USSR	1023	9 04	21 05 37.0	19	47 42	-5 06				845009
52902	UGOROD, USSR	1055	9 04	21 05 45.6	19	05 30	10 00				845009
51642	MEUDON, FRANCE	2715	9 04	21 06 10.1				135 44	40 19		637109
52907	TCHERNOVITSY, USSR	1062	9 04	21 06 32.5	19	18	8 54				845009
52895	LVOV, USSR	1031	9 04	21 06 35.2	19	33 54	4 30				845009
51643	MEUDON, FRANCE	2715	9 04	23 00 09.7				274 15	13 57		637109
51644	MEUDON, FRANCE	2715	9 04	23 01 07.8				469 44	17 60		637109
51645	MEUDON, FRANCE	2715	9 04	23 02 10.3				462 14	21 47		637109
51646	MEUDON, FRANCE	2715	9 04	23 03 21.9				453 46	25 10		637109
51647	MEUDON, FRANCE	2715	9 04	23 04 06.4				246 52	27 47		637109
34137	SACRAMENTO, CAL.	8517	9 05	0 43 55.0				0 00	00 45		845304
32944	ALBUQUERQUE, N.M.	8579	9 05	0 48 00.3				0 00	45 30		845303
33065	NEW ORLEANS, LA.	0030	9 05	0 51 51				0 00	28 00		845304
33067	TERRE HAUTE, IND.	8127	9 05	0 54 31.4				0	52 08		845303
32846	CINCINNATI, OHIO	8555	9 05	0 51 00.5	17	53	78 30				845603
33068	TERRE HAUTE, IND.	8127	9 05	0 54 05.9				30 45	46 40		845303
32991	ROANOKE, VA.	0073	9 05	0 54 35	17	40	82 50				845042
10555	OLTFANTSFENIN, BR.S.A.F.	9002	9 05	1 35 49.60	1	20 00	-36 16				436023
33071	TUCSON, ARIZ.	0063	9 05	4 47 50.7				319 40	40 10		845303
33072	TUCSON, ARIZ.	0063	9 05	4 48 40.7				245 00	44 44		845303
33073	SAN DIEGO, CAL.	0133	9 05	4 48 40.7	41	40	69 44				845304
34138	SACRAMENTO, CAL.	8517	9 05	4 49 40.1				0 00	49 40		845304
33109	VAN NUYS, CAL.	0213	9 05	4 50 43.3				4	49 44		845304
33074	SAN DIEGO, CAL.	0133	9 05	4 50 43.7	6	00	86 36				845304
33075	SAN DIEGO, CAL.	0133	9 05	4 50 38.7	0	34	54 00				845304
33079	SAN ANTONIO, TEX.	8543	9 05	4 55 05				0	46 30		845304
33066	NEW ORLEANS, LA.	0030	9 05	4 56 59				0 00	34 36		845304
33082	SAN ANTONIO, TEX.	0096	9 05	4 57 06.9	1	44	76 32				845304
33069	TERRE HAUTE, IND.	8127	9 05	4 58 46.4				32 00	67 45		845303
32992	ROANOKE, VA.	0073	9 05	4 58 52	40	44 52	59				845304
33085	CINCINNATI, OHIO	8555	9 05	4 58 50.4	41	00 44	35 34				845303
33070	TERRE HAUTE, IND.	8127	9 05	4 58 50.6				86 36	47 15		845303
33087	DENVER, COLO.	8562	9 05	4 59 50.0				80 15 00	45 45 00		845303
33088	SAN JOSE, CAL.	8573	9 05	4 59 50.1	13	49 53	51 31				845303
33076	SAN DIEGO, CAL.	0133	9 05	4 59 50.0	13	46	55 30				845304
33077	SAN DIEGO, CAL.	0133	9 05	4 54 23.9	14	53	74 12				845304
34139	SACRAMENTO, CAL.	8517	9 05	4 54 44.1				0 00	36 18		845304
33089	SAN JOSE, CAL.	8573	9 05	4 55 22.8	41	28 07	69 56				845303
33110	VAN NUYS, CAL.	0113	9 05	4 55 34.3	20	07 37	79 13				845303
33090	WHITTIER, CAL.	8566	9 05	4 55 41.0				0 00 00	44 48 16		845303
34140	SACRAMENTO, CAL.	8517	9 05	4 56 19.3	47	49 48	56 14				845303
33080	SAN ANTONIO, TEX.	8543	9 05	4 58 10.4	14	43 30	61 30				845304
32945	ALBUQUERQUE, N.M.	8579	9 05	4 58 51.1				0 00	45 12		845304
33086	CINCINNATI, OHIO	8555	9 05	4 58 57.7	17	49 42	43 40				845303
33078	SAN DIEGO, CAL.	0133	9 05	4 59 21.6	0	35	47 30				845304
34141	SACRAMENTO, CAL.	8517	9 05	6 55 18.0	16	36 48	32 22				845303
34142	SACRAMENTO, CAL.	8517	9 05	6 56 00.1	17	05 18	32 22				845303
33091	SAN JOSE, CAL.	8573	9 05	6 56 24.9	17	13 34	35 21				845303
34130	SAN JUAN, ARG.	0812	9 05	7 32 55.4	4	58 36	-32 06				845302
10586	VILLA OLORES, BN, ARG	9011	9 05	7 37 06.76	7	15 42	-40 40				436023
10574	AREQUIPA, BN, PERU	9007	9 05	9 31 53.36	22	34 34	-57 43				436023
10587	VILLA OLORES, BN, ARG	9011	9 05	9 36 46.53	1	46 54	-66 46				436023
33088	MIZUSAWA, JAPAN	0267	9 05	10 48 00				14 34	50 10		845304
33087	SAPPORO, JAPAN	0245	9 05	10 53 51	0	04	12				845304
33147	ASAHIKAWA, JAPAN	0201	9 05	10 54 16.2	0	10 00	7 48				845304
33059	TAIPEI, TAIWAN	0502	9 05	12 43 04.0	7	35	86 36				845304
33092	HSINGCHU CITY, TAIWAN	0505	9 05	12 50 18.0	1	48	70 24				845304
33093	HSINGCHU CITY, TAIWAN	0505	9 05	12 51 42.4	1	37	57 48				845304
33060	TAIPEI, TAIWAN	0502	9 05	12 51 55.9	1	37	57 00				845304
33890	SAPPORO, JAPAN	0245	9 05	12 52 07	19	49	20				845302
32148	ASAHIKAWA, JAPAN	0201	9 05	12 52 11.0	19	43 00	18 00				845304
52927	STALINABAD, USSR	1068	9 05	14 41 02.1	19	28 54	79 36				845304

OBS NO	STATION	STA NO	DATE	TIME	R. A.	DECL.	AZIMUTH	ALTITUDE	HAZEL	INDEX
52928	STALINABAD, USSR	1068	9 05	14 41 32.4	41 34 48	72 48				849009
52929	TASHKENT, USSR	1075	9 05	14 42 49.9	42 07 40	37 42				849009
52930	TASHKENT, USSR	1075	9 05	14 46 43.4	43 46 30	46 42				849009
52926	KHARKOV, USSR	1066	9 05	16 34 18.3	44 13 24	19 46				849009
52932	ERIVAN, USSR	1010	9 05	16 41 42.1	44 04 54	03 24				849009
10589	SHIRAZ, IRAN	9008	9 05	16 41 30.6	44 03 00	86 39				849013
52929	STALINABAD, USSR	1068	9 05	16 42 34.6	45 08 36	50 18				849009
52917	TASHKENT, USSR	1075	9 05	16 46 36.8	46 27 36	47 42				849009
52930	STALINABAD, USSR	1068	9 05	16 46 23.5	46 39 48	35 48				849009
52918	TASHKENT, USSR	1075	9 05	16 47 40.8	47 13 00	33 12				849009
52931	STALINABAD, USSR	1068	9 05	16 48 07.2	47 18 30	18 48				849009
52919	TASHKENT, USSR	1075	9 05	16 48 16.8	47 18 30	48 12				849009
53574	LARISSA, GREECE	8113	9 05	18 31 48.1			413 36	7 18		849009
52920	RIGA, USSR	1045	9 05	18 33 05.7	47 49 48	5 12				849009
53575	LARISSA, GREECE	8113	9 05	18 33 38.7			497 36	10 48		849009
51797	BESANCON, FRANCE	2727	9 05	18 34 03.42			467 18	34 48		849009
51798	BESANCON, FRANCE	2727	9 05	18 35 00.89			467 49	67 34		849009
53576	LARISSA, GREECE	8113	9 05	18 35 09.7			503 24	67 34		849009
53577	LARISSA, GREECE	8113	9 05	18 36 36.7			509 36	33 36		849009
51799	BESANCON, FRANCE	2727	9 05	18 36 43.88			504 34	64 47		849009
51800	BESANCON, FRANCE	2727	9 05	18 37 03.76			506 22	70 40		849009
52921	RIGA, USSR	1045	9 05	18 37 34.4	47 56 18	11 30				849009
33094	BERLIN, GERM.	0700	9 05	18 37 50.1			407 36	63 00		849009
51801	BESANCON, FRANCE	2727	9 05	18 38 01.44			408 00	64 10		849009
51806	HANOVER, GERM.	0704	9 05	18 38 04.7			433 37 00	64 16 00		849009
52922	RIGA, USSR	1045	9 05	18 38 06.6	47 56 18	10 34				849009
54578	LARISSA, GREECE	8113	9 05	18 38 56.1			517 00	34 06		849009
51802	BESANCON, FRANCE	2727	9 05	18 39 04.00			518 36	41 40		849009
51803	BESANCON, FRANCE	2727	9 05	18 39 11.65			518 46	46 40		849009
54588	LARISSA, GREECE	8113	9 05	18 39 49.7			518 36	41 40		849009
51804	BESANCON, FRANCE	2727	9 05	18 40 01.07			518 46	46 40		849009
51805	BESANCON, FRANCE	2727	9 05	18 40 03.16			518 46	46 40		849009
52923	RIGA, USSR	1045	9 05	18 40 06.1	47 56 18	09 30				849009
52913	ERIVAN, USSR	1010	9 05	18 40 08.6	47 56 18	40 44				849009
52914	ERIVAN, USSR	1010	9 05	18 40 11.0	47 56 18	43 00				849009
51806	BESANCON, FRANCE	2727	9 05	18 40 13.0			518 46	46 40		849009
54589	LARISSA, GREECE	8113	9 05	18 40 13.0			518 46	46 40		849009
51807	BESANCON, FRANCE	2727	9 05	18 40 13.0			518 46	46 40		849009
54590	LARISSA, GREECE	8113	9 05	18 40 13.0			518 46	46 40		849009
51808	BESANCON, FRANCE	2727	9 05	18 40 13.0			518 46	46 40		849009
54591	LARISSA, GREECE	8113	9 05	18 40 13.0			518 46	46 40		849009
51809	BESANCON, FRANCE	2727	9 05	18 40 13.0			518 46	46 40		849009
54592	LARISSA, GREECE	8113	9 05	18 40 13.0			518 46	46 40		849009
51810	BESANCON, FRANCE	2727	9 05	18 40 13.0			518 46	46 40		849009
54593	LARISSA, GREECE	8113	9 05	18 40 13.0			518 46	46 40		849009
51811	BESANCON, FRANCE	2727	9 05	18 40 13.0			518 46	46 40		849009
54594	LARISSA, GREECE	8113	9 05	18 40 13.0			518 46	46 40		849009
51812	BESANCON, FRANCE	2727	9 05	18 40 13.0			518 46	46 40		849009
54595	LARISSA, GREECE	8113	9 05	18 40 13.0			518 46	46 40		849009
51813	BESANCON, FRANCE	2727	9 05	18 40 13.0			518 46	46 40		849009
54596	LARISSA, GREECE	8113	9 05	18 40 13.0			518 46	46 40		849009
51814	BESANCON, FRANCE	2727	9 05	18 40 13.0			518 46	46 40		849009
54597	LARISSA, GREECE	8113	9 05	18 40 13.0			518 46	46 40		849009
51815	BESANCON, FRANCE	2727	9 05	18 40 13.0			518 46	46 40		849009
54598	LARISSA, GREECE	8113	9 05	18 40 13.0			518 46	46 40		849009
51816	BESANCON, FRANCE	2727	9 05	18 40 13.0			518 46	46 40		849009
54599	LARISSA, GREECE	8113	9 05	18 40 13.0			518 46	46 40		849009
51817	BESANCON, FRANCE	2727	9 05	18 40 13.0			518 46	46 40		849009
54600	LARISSA, GREECE	8113	9 05	18 40 13.0			518 46	46 40		849009
51818	BESANCON, FRANCE	2727	9 05	18 40 13.0			518 46	46 40		849009
54601	LARISSA, GREECE	8113	9 05	18 40 13.0			518 46	46 40		849009
51819	BESANCON, FRANCE	2727	9 05	18 40 13.0			518 46	46 40		849009
54602	LARISSA, GREECE	8113	9 05	18 40 13.0			518 46	46 40		849009
51820	BESANCON, FRANCE	2727	9 05	18 40 13.0			518 46	46 40		849009
54603	LARISSA, GREECE	8113	9 05	18 40 13.0			518 46	46 40		849009
51821	BESANCON, FRANCE	2727	9 05	18 40 13.0			518 46	46 40		849009
54604	LARISSA, GREECE	8113	9 05	18 40 13.0			518 46	46 40		849009
51822	BESANCON, FRANCE	2727	9 05	18 40 13.0			518 46	46 40		849009
54605	LARISSA, GREECE	8113	9 05	18 40 13.0			518 46	46 40		849009
51823	BESANCON, FRANCE	2727	9 05	18 40 13.0			518 46	46 40		849009
54606	LARISSA, GREECE	8113	9 05	18 40 13.0			518 46	46 40		849009
51824	BESANCON, FRANCE	2727	9 05	18 40 13.0			518 46	46 40		849009
54607	LARISSA, GREECE	8113	9 05	18 40 13.0			518 46	46 40		849009
51825	BESANCON, FRANCE	2727	9 05	18 40 13.0			518 46	46 40		849009
54608	LARISSA, GREECE	8113	9 05	18 40 13.0			518 46	46 40		849009
51826	BESANCON, FRANCE	2727	9 05	18 40 13.0			518 46	46 40		849009
54609	LARISSA, GREECE	8113	9 05	18 40 13.0			518 46	46 40		849009
51827	BESANCON, FRANCE	2727	9 05	18 40 13.0			518 46	46 40		849009
54610	LARISSA, GREECE	8113	9 05	18 40 13.0			518 46	46 40		849009
51828	BESANCON, FRANCE	2727	9 05	18 40 13.0			518 46	46 40		849009
54611	LARISSA, GREECE	8113	9 05	18 40 13.0			518 46	46 40		849009
51829	BESANCON, FRANCE	2727	9 05	18 40 13.0			518 46	46 40		849009
54612	LARISSA, GREECE	8113	9 05	18 40 13.0			518 46	46 40		849009
51830	BESANCON, FRANCE	2727	9 05	18 40 13.0			518 46	46 40		849009
54613	LARISSA, GREECE	8113	9 05	18 40 13.0			518 46	46 40		849009
51831	BESANCON, FRANCE	2727	9 05	18 40 13.0			518 46	46 40		849009
54614	LARISSA, GREECE	8113	9 05	18 40 13.0			518 46	46 40		849009
51832	BESANCON, FRANCE	2727	9 05	18 40 13.0			518 46	46 40		849009
54615	LARISSA, GREECE	8113	9 05	18 40 13.0			518 46	46 40		849009
51833	BESANCON, FRANCE	2727	9 05	18 40 13.0			518 46	46 40		849009
54616	LARISSA, GREECE	8113	9 05	18 40 13.0			518 46	46 40		849009
51834	BESANCON, FRANCE	2727	9 05	18 40 13.0			518 46	46 40		849009
54617	LARISSA, GREECE	8113	9 05	18 40 13.0			518 46	46 40		849009
51835	BESANCON, FRANCE	2727	9 05	18 40 13.0			518 46	46 40		849009
54618	LARISSA, GREECE	8113	9 05	18 40 13.0			518 46	46 40		849009
51836	BESANCON, FRANCE	2727	9 05	18 40 13.0			518 46	46 40		849009
54619	LARISSA, GREECE	8113	9 05	18 40 13.0			518 46	46 40		849009
51837	BESANCON, FRANCE	2727	9 05	18 40 13.0			518 46	46 40		849009
54620	LARISSA, GREECE	8113	9 05	18 40 13.0			518 46	46 40		849009
51838	BESANCON, FRANCE	2727	9 05	18 40 13.0			518 46	46 40		849009
54621	LARISSA, GREECE	8113	9 05	18 40 13.0			518 46	46 40		849009
51839	BESANCON, FRANCE	2727	9 05	18 40 13.0			518 46	46 40		849009
54622	LARISSA, GREECE	8113	9 05	18 40 13.0			518 46	46 40		849009
51840	BESANCON, FRANCE	2727	9 05	18 40 13.0			518 46	46 40		849009
54623	LARISSA, GREECE	8113	9 05	18 40 13.0			518 46	46 40		849009
51841	BESANCON, FRANCE	2727	9 05	18 40 13.0			518 46	46 40		849009
54624	LARISSA, GREECE	8113	9 05	18 40 13.0			518 46	46 40		849009
51842	BESANCON, FRANCE	2727	9 05	18 40 13.0			518 46	46 40		849009
54625	LARISSA, GREECE	8113	9 05	18 40 13.0			518 46	46 40		849009
51843	BESANCON, FRANCE	2727	9 05	18 40 13.0			518 46	46 40		849009
54626	LARISSA, GREECE	8113	9 05	18 40 13.0			518 46	46 40		849009
51844	BESANCON, FRANCE	2727	9 05	18 40 13.0			518 46	46 40		849009
54627	LARISSA, GREECE	8113	9 05	18 40 13.0			518 46	46 40		849009
51845	BESANCON, FRANCE	2727	9 05	18 40 13.0			518 46	46 40		849009
54628	LARISSA, GREECE	8113	9 05	18 40 13.0			518 46	46 40		849009
51846	BESANCON, FRANCE	2727	9 05	18 40 13.0			518 46	46 40		849009
54629	LARISSA, GREECE	8113	9 05	18 40 13.0			518 46	46 40		849009
51847	BESANCON, FRANCE	2727	9 05	18 40 13.0			518 46	46 40		849009
54630	LARISSA, GREECE	8113	9 05	18 40 13.0						

OBJ NO	STATION	STA NO	DATE	TIME	No. A.	DECL.	AZIMUTH	ALTITUDE	RANGE	INDEX
33124	N. CANTON, OHIO	8259	9 06	2 35 24.7	15 37	47 00				845042
33129	MILWAUKEE, WIS.	0674	9 06	2 33 42.6			307 18	67 12		845104
33133	NEW ORLEANS, LA.	0030	9 06	4 34 24			0 00	34 00		845302
33084	SAN ANTONIO, TEX.	0096	9 06	4 34 30.4	1 18	71 06				845042
33134	BLOOM, MISS.	0096	9 06	4 34 43			0	32 18		845302
33135	STATE COLLEGE, PA.	0060	9 06	4 34 53.4			298 48	49 24		845303
33137	CHICAGO, ILL.	0020	9 06	4 34 59.6	19 37	54 40				845042
33138	CHICAGO, ILL.	0020	9 06	2 35 16.0	20 03	53 00				845042
33136	CHICAGO, ILL.	0020	9 06	2 35 22			22	77 30		845302
33081	SAN ANTONIO, TEX.	8543	9 06	4 35 49	1 09	60 15				845042
33117	TERRE HAUTE, IND.	8127	9 06	2 35 59.6			33 00	66 22		845303
33139	MILWAUKEE, WIS.	0674	9 06	2 36 17.0			95 42	61 24		845304
33139	N. CANTON, OHIO	8544	9 06	2 37 07.9	23 47	45 54				845303
32868	MADISON, WIS.	0676	9 06	2 39 06.5	23 43 00	16 00				837007
32721	WESTFIELD, MASS.	9021	9 06	2 39 16	20 53	25				837007
33143	N. CANTON, OHIO	8546	9 06	2 39 20	22 45	23 30				845042
33144	N. CANTON, OHIO	8544	9 06	2 39 23	22 48	24 45				845042
33145	N. CANTON, OHIO	8572	9 06	2 39 23.4	22 45 46	25 44				845032
33116	TERRE HAUTE, IND.	8127	9 06	2 39 23.8			89 30	36 15		845303
33146	N. CANTON, OHIO	8565	9 06	4 35 24.9	22 48 33	23 44				845303
33147	N. CANTON, OHIO	8559	9 06	4 35 25.4	22 46 33	24 43				845303
33126	ROCHESTER, N.Y.	8264	9 06	4 35 25.8	41 58	18 18				845303
33148	WHITTIER, CAL.	8266	9 06	4 35 27.3			321 30 24	43 46 12		845303
33150	SAN DIEGO, CAL.	0113	9 06	4 35 28.8	13 06	55 54				845042
33153	SANTA MONICA, CAL.	8143	9 06	4 35 29			347	29		845302
34143	SACRAMENTO, CAL.	8547	9 06	4 35 15.5	16 37 36	70 05				845103
33156	TUCSON, ARIZ.	0033	9 06	4 35 26.9			345 46	25 12		845303
33159	PORTLAND, ORE.	0076	9 06	4 32 02.6	15 36 00	45				845042
34146	SACRAMENTO, CAL.	8517	9 06	4 32 09.4			0 00	56 43		845304
33154	SANTA MONICA, CAL.	0443	9 06	4 32 40			354	44 30		845302
33161	SAN JOSE, CAL.	8573	9 06	4 32 55.5	21 48 37	70 28				845003
33151	SAN DIEGO, CAL.	0113	9 06	4 32 57.0	20 46	82 06				845042
33162	SAN JOSE, CAL.	8573	9 06	4 33 47.5	22 48 10	62 58				845002
33163	MILWAUKEE, WIS.	0674	9 06	4 34 27.5			279 42	24 26		845304
33157	TUCSON, ARIZ.	0033	9 06	4 34 13.7			345 48	40 48		845303
32965	SPOKANE, WASH.	8442	9 06	4 34 59.4			339 14	55 48		845302
33164	MILWAUKEE, WIS.	0674	9 06	4 35 27.6			274 06	29 24		845304
33147	SACRAMENTO, CAL.	8547	9 06	4 35 36.0	43 45 44	37 56				845103
33162	SAN DIEGO, CAL.	0113	9 06	4 35 46.7	0 04	56 12				845042
33166	ALBUQUERQUE, N.M.	8579	9 06	4 36 14.6			0 00	62 06		845302
33160	PORTLAND, ORE.	0076	9 06	4 36 13.7	46 38 00	13 48				845042
33165	MILWAUKEE, WIS.	0674	9 06	4 36 36.3			264 30	35 34		845304
32867	MADISON, WIS.	0676	9 06	4 37 13.0	48 24 33	17 36				837007
32966	SPOKANE, WASH.	8142	9 06	4 37 26.7			124 48	33 18		845302
33149	WHITTIER, CAL.	8266	9 06	4 37 36.4			63 21 00	34 04 12		845303
33152	N. CANTON, OHIO	8544	9 06	4 37 36.6	17 44	17 40				845302
33148	TUCSON, ARIZ.	0033	9 06	4 37 36.8			47 54	45 30		845303
33155	SANTA MONICA, CAL.	0143	9 06	4 37 40			67	33		845302
33168	N. CANTON, OHIO	8559	9 06	4 37 46.6	17 48 00	16 40				845304
33132	DENVER, COLO.	8582	9 06	4 42 45.6			115 43 00	65 00		845303
32967	SPOKANE, WASH.	8442	9 06	6 31 50.5			269 14	16 14		845302
33169	SAN JOSE, CAL.	8573	9 06	6 33 46.0	16 39 54	36 43				845042
33170	SAN JOSE, CAL.	8573	9 06	6 34 30.3	17 13 34	36 51				845002
32968	SPOKANE, WASH.	8142	9 06	6 35 36.5			235 14	30 46		845302
34148	SACRAMENTO, CAL.	8517	9 06	6 35 44.2	18 24 48	31 27				845103
10591	VILLA DOLORES, B.N. ARG.	9011	9 06	7 11 06.19	4 44 30	-39 41				844023
10592	VILLA DOLORES, B.N. ARG.	9011	9 06	7 17 02.33	8 02 18	-37 01				844023
10588	AREQUIPA, B.N. PERU	9007	9 06	9 09 19.01	22 45 00	-60 11				844023
10593	VILLA DOLORES, B.N. ARG.	9011	9 06	9 12 57.38	0 45 00	-55 46				844023
14131	SAN JUAN, ARG.	0612	9 06	9 20 36.7	40 11 36	-51 30				845002
10594	VILLA DOLORES, B.N. ARG.	9011	9 06	9 23 30.37	5 50 18	-42 41				844023
33891	SAPPORO, JAPAN	0245	9 06	10 29 32.5	43 40	23 18				845002
33893	KAGOSHIMA, JAPAN	0218	9 06	12 25 59.1	15 00	72 00				845002
33171	TAIPEI, TAIWAN	0502	9 06	12 28 53.9	4 30	60 54				845042
33892	SAPPORO, JAPAN	0245	9 06	12 29 44.9	19 32	19 42				845002
11807	NAINI TAL-BN. INDIA	9006	9 06	14 24 01.65	0 57 44	59 15				845013
51828	CRENSBURGH, USSR	1063	9 06	16 20 38.8	19 36 30	20 42				845009
10597	GHIPAZ, B.N. IRAN	9008	9 06	16 24 16.00	0 48 48	46 49				845013
11808	NAINI TAL-BN. INDIA	9006	9 06	16 26 29.69	40 47 16	71 13				845013
33 99	HANOVER, GER.	0702	9 06	18 15 07.4			164 19 48	63 12 00		845302
51826	DNEPROPETROVSK, USSR	1017	9 06	18 19 02.4	18 52 00	15 06				845009
51823	KRASNOGAR, USSR	1027	9 06	18 19 40.8	18 43	37 24				845009
51827	DNEPROPETROVSK, USSR	1017	9 06	18 21 09.5	2 21 00	41 54				845009
51824	KRASNOGAR, USSR	1027	9 06	18 21 29.8	20 44	26 54				845009
10598	SHIRAZ, B.N. IRAN	9008	9 06	18 22 08.52	15 20 30	60 19				845013
51825	KRASNOGAR, USSR	1027	9 06	18 24 58.0	22 35	9 24				845009
34166	STONE, AUSTR.	0602	9 06	19 11 23.3	9 49	-62 24				845042
55782	ROE-TSCH, GER.	2733	9 06	20 12 04.6	14 22 48	14 42				845009
35486	BOCHUM, GER.	8599	9 06	20 16 27.4	16 35 48	28 27				845002
10595	SAN FERNANDO, B.N. SP.	9004	9 06	20 16 38.60	21 31 30	77 08				845013
51816	EL GULEA, ALG.	6411	9 06	20 18 15.0			339 12	33 00		845309
55783	ROE-TSCH, GER.	2733	9 06	20 18 56.6	18 34 42	16 18				845009
35487	BOCHUM, GER.	8599	9 06	20 19 02.2	19 33 42	14 48				845002
51817	EL GULEA, ALG.	6411	9 06	20 20 15.0			95 06	35 00		845309
51818	EL GULEA, ALG.	6411	9 06	20 22 11.0			48 48	30 36		845309
10596	SAN FERNANDO, B.N. SP.	9004	9 06	22 18 47.80	16 35 48	46 39				845013
34149	SACRAMENTO, CAL.	8517	9 06	23 58 37.5			160 00	87 49		845304
34150	SACRAMENTO, CAL.	8517	9 07	2 04 33.1			0 00	30 39		845304
33174	NEW ORLEANS, LA.	0030	9 07	2 11 47			0 00	33 30		845302
33175	BLOOM, MISS.	0096	9 07	2 12 04.5			0	31 06		845302
31791	MANHATTAN, KAN.	8110	9 07	2 12 09.2	22 28 12	58 07				845009
33176	STATE COLLEGE, PA.	0060	9 07	2 12 12.5			301 30	48 00		845303
33118	TERRE HAUTE, IND.	8127	9 07	2 12 29.3			0	63 49		845302
33140	N. CANTON, OHIO	8584	9 07	2 12 40.5	17 30 30	55 52				845032

Obs NO	STATION	STA NO	DATE	TIME	Re No	Obs No	RETHYTH	ALTITUDE	RANGE	ORNDLA
33177	CHICAGO, ILL.	0010	9 07	2 12 40.5			22 00 00	77 00 00		845305
33178	MANHATTAN, KAN.	0110	9 07	2 13 49.46	23 22 27	40 30				845009
33179	MANHATTAN, KAN.	0210	9 07	2 13 54.61	23 24 12	40 07				845009
33180	N. CANTON, OHIO	0344	9 07	2 14 22.4	20 29	48 34				845042
33181	N. CANTON, OHIO	0538	9 07	2 15 02.5	24 44	52 33				841032
33182	MANHATTAN, KAN.	0610	9 07	2 15 44.05	23 23 07	45 37				845009
33183	MADISON, WIS.	0778	9 07	2 17 17.0	23 27 30	12 10				637007
33184	MADISON, WIS.	0878	9 07	2 17 20.5	23 28	12 13				637007
33185	WEST JEFFERSON, MISS.	0921	9 07	2 17 30	21 32 30	49 40				637007
33186	CHICAGO, ILL.	0020	9 07	2 17 40			102 00 00	32 00 00		845302
33187	N. CANTON, OHIO	0574	9 07	2 17 44	22 38	22 30				845042
33188	N. CANTON, OHIO	0626	9 07	2 17 41.7	23 00	17 40				841032
33189	TERRE HAUTE, IND.	0127	9 07	2 17 44.7			91 15	31		845303
33190	ROCHESTER, N.Y.	0584	9 07	2 17 49.5	22 40 00	13 24				845033
33191	SAN JOSE, CAL.	0133	9 07	2 18 49.5	13 02	58 34				845042
33192	SAN JOSE, CAL.	0513	9 07	2 18 22.6	13 40 40	72 29				845003
33193	SACRAMENTO, CAL.	0017	9 07	2 18 26.4	10 43 18	72 57				841013
33194	PORTLAND, ORE.	0076	9 07	2 18 26.0	17 35 00	49 00				845041
33195	SACRAMENTO, CAL.	0017	9 07	2 18 31.0			0 00	30 14		845040
33196	PORTLAND, ORE.	0076	9 07	2 18 31.0	16 34 00	37 42				845042
33197	SPokane, WASH.	0142	9 07	2 18 49.4			140 34	40 44		845042
33198	SAN JOSE, CAL.	0573	9 07	2 18 42.7	16 40 40	62 38				845042
33199	SAN JOSE, CAL.	0633	9 07	2 18 51.3	16 31	83 24				845042
33200	MANHATTAN, KAN.	0110	9 07	2 19 46.4	18 30 36	38 56				845009
33201	MANHATTAN, KAN.	0210	9 07	2 19 51.0	18 42 30	38 47				845009
33202	VAN NUYS, CAL.	0111	9 07	2 19 40.4	0 44 44	38 43				845043
33203	PORTLAND, ORE.	0076	9 07	2 19 46.0	13 48 00	40 00				845042
33204	SAN ANTONIO, TEX.	0040	9 07	2 19 47.4	10 44 16	71 47				845041
33205	SAN JOSE, CAL.	0573	9 07	2 19 50.7	10 00 46	45 24				845042
33206	OKLAHOMA, TEX.	0040	9 07	2 19 50.7	10 00 30	57 10				845043
33207	MADISON, WIS.	0878	9 07	2 19 50.0	10 40 48	45 34				637007
33208	SACRAMENTO, CAL.	0017	9 07	2 19 50.3	0 00 42	17 38				845013
33209	SAN JOSE, CAL.	0633	9 07	2 19 50.7	0 00	38 06				845042
33210	TERRE HAUTE, IND.	0127	9 07	2 19 55.2			102	40 30		845303
33211	PORTLAND, ORE.	0076	9 07	2 19 58.0	10 41 00	41 30				845042
33212	PORTLAND, ORE.	0076	9 07	2 19 58.0	10 47 00	47				845042
33213	SAN JOSE, CAL.	0573	9 07	2 19 58.4	10 42 47	39 41				845044
33214	PORTLAND, ORE.	0076	9 07	2 19 58.0	19 47 10	7 48				845044
33215	SPokane, WASH.	0142	9 07	2 19 58.3			404 34	30 00		845302
33216	VAN NUYS, CAL.	0111	9 07	2 19 58.0			470 00	31 34		845303
33217	SAN JOSE, CAL.	0633	9 07	2 19 58.0	7 43 40	134 46				845042
33218	ARLINGTON, TEX.	0007	9 07	2 19 58.0	10 40 40	100 00				845042
33219	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33220	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33221	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33222	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33223	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33224	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33225	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33226	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33227	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33228	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33229	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33230	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33231	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33232	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33233	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33234	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33235	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33236	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33237	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33238	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33239	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33240	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33241	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33242	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33243	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33244	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33245	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33246	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33247	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33248	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33249	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33250	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33251	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33252	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33253	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33254	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33255	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33256	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33257	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33258	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33259	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33260	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33261	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33262	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33263	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33264	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33265	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33266	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33267	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33268	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33269	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33270	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33271	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33272	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33273	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33274	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33275	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33276	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33277	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33278	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33279	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33280	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33281	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33282	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33283	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33284	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33285	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33286	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33287	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33288	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33289	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33290	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33291	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33292	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33293	ANTWERP, BELG.	0004	9 07	2 19 58.0	10 40 40	100 00				845042
33294	ANTWERP, BELG.	0004								

OBS NO	STATION	SIA NO	DATE	TIME	R. A.	DECL.	AZIMUTH	ALTITUDE	RANGE	INDEX
56000	POTSOM, GER.	2729	9 07	19 56 33.3	16 37 00	11 07				834049
51892	RIGA, USSR	1040	9 07	19 58 13.6	18 57 00	- 3 06				845009
51874	LVOV, USSR	1031	9 07	19 58 41.9	18 45 30	8 06				845009
51893	RIGA, USSR	1040	9 07	19 58 47.9	19 16 36	- 4 48				845009
51875	LVOV, USSR	1031	9 07	19 59 13.7	19 09 30	4 54				845009
51894	RIGA, USSR	1040	9 07	19 59 18.4	19 34 54	- 6 18				845009
58001	POTSOM, GER.	2729	9 07	20 00 50.8	21 34 09	- 5 35				834049
53659	BRATISLAVA, CZECH.	5702	9 07	20 01 05.0	21 47 00	0 42				834047
56002	POTSOM, GER.	2729	9 07	21 54 58.4	16 37 48	6 12				834049
56003	POTSOM, GER.	2729	9 07	21 57 18.1	17 49 42	0 34				834049
10602	SAN FERNANDO BN, SP.	9004	9 07	21 59 02.40	20 03 48	43 16				434013
56004	POTSOM, GER.	2729	9 07	21 59 24.6	16 52 48	- 8 03				834049
33197	TERRE HAUTE, IND.	8127	9 07	23 44 47.4			0 15	52 53		845303
51856	CAPE TOWN, S. AFR.	5400	9 08	0 34 44.5	6 24 54	-27 12				637007
34154	SACRAMENTO, CAL.	8517	9 08	1 41 54.6			0 00	51 07		641304
33208	FT. WORTH, TEX.	0139	9 08	1 47 31.2	0 48 00	88 36				845013
33205	CHICAGO, ILL.	0020	9 08	1 49 37.4	18 51	58 55				845042
33210	CHICAGO, ILL.	0020	9 08	1 49 48.6	19 13	57 50				845042
33198	TERRE HAUTE, IND.	8127	9 08	1 51 20.0			47 30	59 25		845303
33212	SAN ANTONIO, TEX.	8543	9 08	1 52 40	0 44	50 30				845041
33215	ROCHESTER, N.Y.	0047	9 08	1 53 21.0	20 55	30 06				845034
33213	STATE COLLEGE, PA.	0060	9 08	1 53 46.8			96 00	68 30		845303
33181	N. CANTON, OHIO	8536	9 08	1 54 46	22 55 30	20 35				641042
33214	ROCHESTER, N.Y.	8564	9 08	1 55 50.1	24 39	8 24				845033
33211	CHICAGO, ILL.	0020	9 08	1 55 54.2	24 48	5 40				845042
33216	TUCSON, ARIZ.	0003	9 08	3 46 39.5			350 00	26 48		845303
33218	SAN JOSE, CAL.	8573	9 08	3 46 43.3			6	49 36 00		845304
34155	SACRAMENTO, CAL.	8517	9 08	3 46 51.9			0 00	54 03		641304
34156	SACRAMENTO, CAL.	8517	9 08	3 46 51.9	16 51 12	74 39				641013
33220	VAN NUYS, CAL.	0113	9 08	3 47 46.5	19 17 13	83 24				845043
33223	MILWAUKEE, WIS.	0074	9 08	3 47 44.9			245 48	17 06		641304
33219	SAN JOSE, CAL.	8573	9 08	3 47 48.2	21 48 07	71 16				845004
33224	CHINA LAKE, CAL.	0098	9 08	3 47 51.3			0 00	46 15 00		641303
33186	SAN DIEGO, CAL.	0133	9 08	3 48 07.4	20 12	84 48				845042
51819	MANHATTAN, KAN.	8116	9 08	3 49 00.8	15 35 00	40 30				845009
33217	TUCSON, ARIZ.	0003	9 08	3 49 38.4			1 06	41 12		845303
33222	MILWAUKEE, WIS.	0074	9 08	3 50 40.6			274 24	36 42		641304
33225	DENVER, COLO.	8582	9 08	3 50 41.5			32 15 00	12 45 00		845303
51810	MANHATTAN, KAN.	8116	9 08	3 52 03.85	48 40 36	40 41				845009
51812	MANHATTAN, KAN.	8110	9 08	3 53 04.1	19 54 25	34 56				845009
33223	MILWAUKEE, WIS.	0074	9 08	3 53 14.7			240 12	48 30		641304
52411	MADISON, WIS.	5078	9 08	3 53 31.0	19 06 48	14 45				637007
51812	MANHATTAN, KAN.	8110	9 08	3 53 44.8	20 49 20	28 03				845009
52413	REDMONT, OREGON	5093	9 08	3 54 05	23 30	5 06				637009
52414	SPOKANE, WASH.	8142	9 08	3 54 07.2			114 48	20 48		845302
52415	FT. WORTH, TEX.	0139	9 08	3 54 13.0	21 34 00	51 42				845013
52417	SAN JOSE, CAL.	8573	9 08	3 54 22.4	16 41 17	40 30				845002
52418	PORTLAND, ORE.	0076	9 08	3 50 31.4	18 57 00	13 36				845042
52419	PORTLAND, ORE.	0076	9 08	3 51 06.2	19 17 00	11 24				845042
52420	SAN JOSE, CAL.	8573	9 08	3 51 13.5	18 55 30	38 44				845004
52421	PORTLAND, ORE.	0076	9 08	3 51 31.0	19 57 00	6 42				845042
52424	REDMONT, OREGON	5093	9 08	3 52 11	19 56	8 06				637009
52427	SACRAMENTO, CAL.	8517	9 08	3 52 14.7	19 43 24	48 14				641013
52428	SPOKANE, WASH.	8142	9 08	3 52 21.9			209 00	36 48		845302
52428	SACRAMENTO, CAL.	8517	9 08	3 52 21.9	19 53 06	27 05				641013
10608	VILLA COLORADO BN, ARG	9011	9 08	8 24 44.17	22 58 36	-30 16				434023
10607	AREQUIPA BN, PERU	9007	9 08	8 26 30.18	22 19 33	-74 46				434023
34142	SAN JUAN, ARG.	0812	9 08	8 31 06	6 41	-69 36				845302
34148	MUSASHINO, JAPAN	0233	9 08	9 39 13.2			0 00	-1 00		845302
52414	VLAADIVOSTOK, USSR	1013	9 08	11 40 23.0	16 42 30	44 48				845009
52415	POINCHANG CITY, TAIWAN	0505	9 08	11 43 36.6	1 14	60 06				845042
52415	VLAADIVOSTOK, USSR	1013	9 08	11 44 24.7	21 46 06	26 12				845009
52416	BAKU, USSR	1007	9 08	15 32 04.0	13 10 12	55 48				845009
52419	GRENBORUM, USSR	1063	9 08	15 33 43.0	17 16 00	46 00				845009
52425	TASHKENT, USSR	1075	9 08	15 34 17.4	14 13 00	43 36				845009
52426	STALINABAD, USSR	1068	9 08	15 34 19.8	13 46 24	49 30				845009
52427	SVERDLOVSK, USSR	1045	9 08	15 34 30.5	17 16 00	11 00				845009
52427	BAKU, USSR	1007	9 08	15 36 04.1	41 07 30	62 10				845009
52428	SVERDLOVSK, USSR	1045	9 08	15 38 44.7	10 18 36	-4 00				845009
52421	STALINABAD, USSR	1068	9 08	15 39 11.8	21 19 18	55 36				845009
10610	MAINI TALABAN, INDIA	9006	9 08	15 39 35.85	14 01 24	52 23				434013
52426	TASHKENT, USSR	1075	9 08	15 39 54.7	21 32 30	38 12				845009
10611	SHIRAZ BN, IRAN	9006	9 08	15 40 11.59	0 29 48	38 49				434013
52421	STALINABAD, USSR	1068	9 08	15 40 25.1	22 10 54	40 48				845009
52427	TASHKENT, USSR	1075	9 08	15 42 38.3	43 02 00	15 18				845009
52428	TASHKENT, USSR	1075	9 08	15 43 09.8	23 13 00	11 06				845009
52424	ICHERNOVITSKY, USSR	1062	9 08	17 29 46.1	14 49 00	30 36				845009
52425	NIKOLAEV, USSR	1077	9 08	17 30 37.3	45 15 18	26 48				845009
52423	DNEPROPETROVSK, USSR	1041	9 08	17 31 39.6	15 12 24	29 18				845009
52421	ROSTOV, USSR	1041	9 08	17 32 00.9	14 22 00	26 42				845009
52418	SMILITSKY, USSR	1053	9 08	17 33 16.3	14 29 30	38 54				845009
52422	ICHERNOVITSKY, USSR	1082	9 08	17 33 15.3	18 42 30	37 36				845009
52426	EREVAN, USSR	1018	9 08	17 33 34.5	14 48 30	43 48				845009
52424	DNEPROPETROVSK, USSR	1041	9 08	17 34 12.4	17 50 00	32 00				845009
52425	NIKOLAEV, USSR	1077	9 08	17 34 18.3	16 35 00	38 48				845009
52429	EREVAN, USSR	1018	9 08	17 34 32.0	15 12 00	48 24				845009
52426	NIKOLAEV, USSR	1077	9 08	17 36 15.9	20 50 30	26 48				845009
52426	KHARKOV, USSR	1060	9 08	17 37 04.4	20 32 12	13 18				845009
52427	KHARKOV, USSR	1060	9 08	17 37 23.1	20 42 12	12 06				845009
52429	TASHKENT, USSR	1075	9 08	17 38 00.2	16 16 30	21 30				845009
52427	NIKOLAEV, USSR	1077	9 08	17 38 45.7	22 19 48	10 30				845009
52428	TASHKENT, USSR	1075	9 08	17 39 49.5	17 21 00	17 54				845009
52413	STALINABAD, USSR	1068	9 08	17 40 00.1	17 49 18	22 30				845009
52423	KAZAN, USSR	1070	9 08	17 40 22.8	20 49 00	-10 06				845009

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OBS NO	STATION	STA NO	DATE	TIME	H. A.	DEGL.	AZIMUTH	ALTITUDE	RANGE	INDEX
33278	CALGARY, CAN.	0452	9 09	5 29 15.6	19 02 36	-4 18				845042
34162	SACRAMENTO, CAL.	8517	9 09	5 30 03.3	20 10 00	25 26				641013
33277	CALGARY, CAN.	0452	9 09	5 30 06.6	19 32 30	-7 30				845042
33279	VAN NUYS, CAL.	0413	9 09	5 30 47.1			299 30	78 54		845303
34134	SAN JUAN, ARG.	0812	9 09	8 10 16	8 19 12	-59 12				845002
33233	HSINGCHU CITY, TAIWAN	0505	9 09	11 17 00.7	7 25	83 00				845042
33280	TAIPEI, TAIWAN	0502	9 09	11 17 50.1	4 22	83 00				845042
33904	MIYAZAKI, JAPAN	0230	9 09	11 19 21.8	16 51	81 12				845002
33281	TAIPEI, TAIWAN	0502	9 09	11 21 21.9	0 58 30	57 24				845042
33899	SENDAI, JAPAN	0246	9 09	11 23 38			21 12	83 18		845302
33234	HSINGCHU CITY, TAIWAN	0505	9 09	11 23 57.3	0 55	38 18				845042
33900	KONNU, JAPAN	0224	9 09	11 24 34.0	23 55 30	29 48				845002
33903	YATSUSHIRO, JAPAN	0272	9 09	11 25 05			74 00	22 48		845302
33906	MIYAZAKI, JAPAN	0230	9 09	11 25 08	0 06	28 12				845002
33905	KAGOSHIMA, JAPAN	0218	9 09	11 25 09.6	0 13	28 48				845002
33901	KANAYA MACHI, JAPAN	0220	9 09	11 25 09.8	23 38	27 12				845002
33902	SAPPORO, JAPAN	0245	9 09	11 25 12	46 02	4				845002
33282	TAIPEI, TAIWAN	0502	9 09	13 21 43.2	16 25 00	69 00				845042
33283	TAIPEI, TAIWAN	0502	9 09	13 24 48.0	18 26 00	70 54				845042
33235	HSINGCHU CITY, TAIWAN	0505	9 09	13 22 59.4	19 35	72 00				845042
33908	SAPPORO, JAPAN	0245	9 09	13 23 18	12 57	4				845002
33907	YOKKAICHI, JAPAN	0258	9 09	13 23 24	17 25	23				845002
33909	YATSUSHIRO, JAPAN	0272	9 09	13 23 25			268 00	46 30		845302
33910	KAGOSHIMA, JAPAN	0218	9 09	13 23 27.0	17 47	38 12				845002
53533	TASHKENT, USSR	1075	9 09	15 17 46.2	14 00 30	45 30				845009
53528	STALINABAD, USSR	1068	9 09	15 15 56.7	49 23 42	67 30				845009
53534	TASHKENT, USSR	1075	9 09	15 16 48.6	21 02 30	43 42				845009
53529	STALINABAD, USSR	1068	9 09	15 16 55.0	24 41 54	52 12				845009
53535	TASHKENT, USSR	1075	9 09	15 20 28.7	23 00 00	13 48				845009
53536	TASHKENT, USSR	1075	9 09	15 21 25.3	43 18 00	7 00				845009
53537	TASHKENT, USSR	1075	9 09	17 14 38.64	14 48 06	67 25				845013
53530	STALINABAD, USSR	1068	9 09	17 16 09.0	16 49 00	21 48				845009
53538	TASHKENT, USSR	1075	9 09	17 16 38.2	16 41 30	27 12				845009
53539	TASHKENT, USSR	1075	9 09	17 19 29.8	18 50 30	9 42				845009
10655	WOMERAHN, AUSTR.	9303	9 09	17 54 43.42	1 38 30	-56 23				845023
33289	ADELAIDE, AUSTR.	0600	9 09	17 55 29.6	2 40	-51 30				845042
33284	ADELAIDE, AUSTR.	0600	9 09	17 56 26.3			181 30	45 06		845302
33285	ADELAIDE, AUSTR.	0600	9 09	17 59 48.6			134 05	38 30		845302
33288	ADELAIDE, AUSTR.	0600	9 09	18 01 30	4 50	-56				845041
51964	MEUDON, FRANCE	2715	9 09	19 02 39.90			275 49	16 47		837109
51965	MEUDON, FRANCE	2715	9 09	19 03 13.60			175 12	19 36		837109
51966	MEUDON, FRANCE	2715	9 09	19 04 04.50			273 56	24 46		837109
53662	BRATISLAVA, CZECH.	2732	9 09	19 04 05.0	13 13 25	15 25				834047
52019	BESANCON, FRANCE	2727	9 09	19 04 18.07			280 20	20 40		834309
51967	MEUDON, FRANCE	2715	9 09	19 05 08.40			271 46	32 00		837109
52020	BESANCON, FRANCE	2727	9 09	19 05 18.12			279 08	26 54		834309
51968	MEUDON, FRANCE	2715	9 09	19 06 01.40			269 59	39 11		837109
52021	BESANCON, FRANCE	2727	9 09	19 06 04.46			277 53	34 23		834309
51969	MEUDON, FRANCE	2715	9 09	19 07 01.40			263 38	49 57		837109
52022	BESANCON, FRANCE	2727	9 09	19 07 04.47			275 24	40 52		834309
51970	MEUDON, FRANCE	2715	9 09	19 08 46.00			249 50	62 16		837109
53531	RIGA, USSR	1040	9 09	19 08 46.3	19 42 30	6 30				845009
52023	BESANCON, FRANCE	2727	9 09	19 08 22.99			268 47	44 47		834309
56105	SONNEBERG, GER.	2730	9 09	19 08 51.3	16 00 30	23 36				834049
52024	BESANCON, FRANCE	2727	9 09	19 09 00.7	16 16 36	19 42				834049
51971	MEUDON, FRANCE	2715	9 09	19 09 12.30			261 36	62 57		834309
55704	JENA, GER.	2734	9 09	19 09 22.6	16 28 24	21 06	218 28	72 03		834009
52025	BESANCON, FRANCE	2727	9 09	19 10 02.52			233 20	74 49		834309
56008	POTSDAM, GER.	2729	9 09	19 10 05.2	17 05 54	15 57				834049
51972	MEUDON, FRANCE	2715	9 09	19 10 17.0			162 12	70 29		837109
52026	BESANCON, FRANCE	2727	9 09	19 11 18.56			153 55	72 53		834309
35090	BOCHUM, GER.	6599	9 09	19 11 19.9	19 41 12	12 54				845002
51973	MEUDON, FRANCE	2715	9 09	19 11 28.70			135 22	59 52		837109
51974	MEUDON, FRANCE	2715	9 09	19 12 10.10			126 59	50 01		837109
52027	BESANCON, FRANCE	2727	9 09	19 12 11.30			133 26	61 57		834309
55791	SONNEBERG	2730	9 09	19 12 41.8	19 42 48	13 00				834049
51975	MEUDON, FRANCE	2715	9 09	19 13 04.10			121 51	61 10		837109
56009	POTSDAM, GER.	2729	9 09	19 13 10.6	19 45 24	5 39				834049
53672	BRNO, CZECH.	2720	9 09	19 13 24.0	19 24 30	13 18				737042
52028	BESANCON, FRANCE	2727	9 09	19 13 29.03			122 58	47 03		834309
53532	RIGA, USSR	1040	9 09	19 13 54.5	19 04 06	-5 00				845009
51976	MEUDON, FRANCE	2715	9 09	19 14 06.70			118 16	32 34		837109
52029	BESANCON, FRANCE	2727	9 09	19 14 23.28			119 46	38 27		834309
51977	MEUDON, FRANCE	2715	9 09	19 15 00.40			116 21	26 29		837109
52030	BESANCON, FRANCE	2727	9 09	19 15 13.02			117 54	31 51		834309
52031	BESANCON, FRANCE	2727	9 09	19 16 07.33			116 32	25 45		834309
51978	MEUDON, FRANCE	2715	9 09	19 16 09.70			114 35	19 53		837109
53673	BRNO, CZECH.	2720	9 09	19 16 44.2	21 37	-0 18				739041
51979	MEUDON, FRANCE	2715	9 09	19 17 00.00			113 45	15 51		837109
52032	BESANCON, FRANCE	2727	9 09	19 17 20.68			115 18	18 58		834309
53663	BRATISLAVA, CZECH.	5102	9 09	19 17 29.9	22 01 04	-4 47				834047
56010	POTSDAM, GER.	2729	9 09	19 17 49.1	22 08 00	-10 50				834049
33286	ADELAIDE, AUSTR.	0600	9 09	20 02 00.6			60 30	21		845382
33287	ADELAIDE, AUSTR.	0600	9 09	20 04 16.4	9 15	-70				845041
33290	ADELAIDE, AUSTR.	0600	9 09	20 06 20.8	10 21	-56 12				845042
51829	LAREDO-RADAR, TEX.	4012	9 09	20 48 09.3			274 18 00	76 30 00	1910	845307
51980	MEUDON, FRANCE	2715	9 09	21 07 36.20			274 25	16 57		837109
51981	MEUDON, FRANCE	2715	9 09	21 08 31.30			269 50	20 50		837109
51982	MEUDON, FRANCE	2715	9 09	21 09 03.00			266 40	24 12		837109
52033	BESANCON, FRANCE	2727	9 09	21 09 49.46			269 36	21 57		834389
51983	MEUDON, FRANCE	2715	9 09	21 10 14.20			257 53	28 39		837109
52034	BESANCON, FRANCE	2727	9 09	21 10 16.80			266 41	23 58		834309
51984	MEUDON, FRANCE	2715	9 09	21 11 09.80			248 52	32 47		837109

DOY	STATION	SPA	NO	WIND	WIND	R. A.	WAVE	AZIMUTH	ALTITUDE	RANGE	TRUCK
52 15	BESANCON, FRANCE	6727	9 09	68 18	14.56			259 12	28 15		834309
52 16	BESANCON, FRANCE	6728	9 09	68 18	14.56	87 37 30	5 36				845049
52 17	BESANCON, FRANCE	6729	9 09	68 18	14.56			248 42	18 12		845303
52 18	BESANCON, FRANCE	6730	9 09	68 18	14.56			235 09	36 40		837109
52 19	BESANCON, FRANCE	6731	9 09	68 18	14.56			247 08	33 14		834309
52 20	BESANCON, FRANCE	6732	9 09	68 18	14.56	17 52 42	0 30				834009
52 21	BESANCON, FRANCE	6733	9 09	68 18	14.56			229 30	21 06		845303
52 22	BESANCON, FRANCE	6734	9 09	68 18	14.56			223 44	38 11		837109
52 23	BESANCON, FRANCE	6735	9 09	68 18	14.56	87 50 18	1 12				834049
52 24	BESANCON, FRANCE	6736	9 09	68 18	14.56			236 12	36 00		834309
52 25	BESANCON, FRANCE	6737	9 09	68 18	14.56	20 13 30	46 40				834013
52 26	BESANCON, FRANCE	6738	9 09	68 18	14.56			225 40	37 23		834309
52 27	BESANCON, FRANCE	6739	9 09	68 18	14.56			208 40	38 09		837109
52 28	BESANCON, FRANCE	6740	9 09	68 18	14.56			214 60	20 48		845303
52 29	BESANCON, FRANCE	6741	9 09	68 18	14.56	21 15 02.70		212 29	37 20		834309
52 30	BESANCON, FRANCE	6742	9 09	68 18	14.56			187 01	36 09		837109
52 31	BESANCON, FRANCE	6743	9 09	68 18	14.56	18 55 00	- 5 34				834049
52 32	BESANCON, FRANCE	6744	9 09	68 18	14.56			184 18	32 30		837109
52 33	BESANCON, FRANCE	6745	9 09	68 18	14.56						845042
52 34	BESANCON, FRANCE	6746	9 09	68 18	14.56						845042
52 35	BESANCON, FRANCE	6747	9 09	68 18	14.56						845042
52 36	BESANCON, FRANCE	6748	9 09	68 18	14.56						845023
52 37	BESANCON, FRANCE	6749	9 09	68 18	14.56						845304
52 38	BESANCON, FRANCE	6750	9 09	68 18	14.56						845042
52 39	BESANCON, FRANCE	6751	9 09	68 18	14.56						845042
52 40	BESANCON, FRANCE	6752	9 09	68 18	14.56						845042
52 41	BESANCON, FRANCE	6753	9 09	68 18	14.56						845042
52 42	BESANCON, FRANCE	6754	9 09	68 18	14.56						845042
52 43	BESANCON, FRANCE	6755	9 09	68 18	14.56						845042
52 44	BESANCON, FRANCE	6756	9 09	68 18	14.56						845042
52 45	BESANCON, FRANCE	6757	9 09	68 18	14.56						845042
52 46	BESANCON, FRANCE	6758	9 09	68 18	14.56						845042
52 47	BESANCON, FRANCE	6759	9 09	68 18	14.56						845042
52 48	BESANCON, FRANCE	6760	9 09	68 18	14.56						845042
52 49	BESANCON, FRANCE	6761	9 09	68 18	14.56						845042
52 50	BESANCON, FRANCE	6762	9 09	68 18	14.56						845042
52 51	BESANCON, FRANCE	6763	9 09	68 18	14.56						845042
52 52	BESANCON, FRANCE	6764	9 09	68 18	14.56						845042
52 53	BESANCON, FRANCE	6765	9 09	68 18	14.56						845042
52 54	BESANCON, FRANCE	6766	9 09	68 18	14.56						845042
52 55	BESANCON, FRANCE	6767	9 09	68 18	14.56						845042
52 56	BESANCON, FRANCE	6768	9 09	68 18	14.56						845042
52 57	BESANCON, FRANCE	6769	9 09	68 18	14.56						845042
52 58	BESANCON, FRANCE	6770	9 09	68 18	14.56						845042
52 59	BESANCON, FRANCE	6771	9 09	68 18	14.56						845042
52 60	BESANCON, FRANCE	6772	9 09	68 18	14.56						845042
52 61	BESANCON, FRANCE	6773	9 09	68 18	14.56						845042
52 62	BESANCON, FRANCE	6774	9 09	68 18	14.56						845042
52 63	BESANCON, FRANCE	6775	9 09	68 18	14.56						845042
52 64	BESANCON, FRANCE	6776	9 09	68 18	14.56						845042
52 65	BESANCON, FRANCE	6777	9 09	68 18	14.56						845042
52 66	BESANCON, FRANCE	6778	9 09	68 18	14.56						845042
52 67	BESANCON, FRANCE	6779	9 09	68 18	14.56						845042
52 68	BESANCON, FRANCE	6780	9 09	68 18	14.56						845042
52 69	BESANCON, FRANCE	6781	9 09	68 18	14.56						845042
52 70	BESANCON, FRANCE	6782	9 09	68 18	14.56						845042
52 71	BESANCON, FRANCE	6783	9 09	68 18	14.56						845042
52 72	BESANCON, FRANCE	6784	9 09	68 18	14.56						845042
52 73	BESANCON, FRANCE	6785	9 09	68 18	14.56						845042
52 74	BESANCON, FRANCE	6786	9 09	68 18	14.56						845042
52 75	BESANCON, FRANCE	6787	9 09	68 18	14.56						845042
52 76	BESANCON, FRANCE	6788	9 09	68 18	14.56						845042
52 77	BESANCON, FRANCE	6789	9 09	68 18	14.56						845042
52 78	BESANCON, FRANCE	6790	9 09	68 18	14.56						845042
52 79	BESANCON, FRANCE	6791	9 09	68 18	14.56						845042
52 80	BESANCON, FRANCE	6792	9 09	68 18	14.56						845042
52 81	BESANCON, FRANCE	6793	9 09	68 18	14.56						845042
52 82	BESANCON, FRANCE	6794	9 09	68 18	14.56						845042
52 83	BESANCON, FRANCE	6795	9 09	68 18	14.56						845042
52 84	BESANCON, FRANCE	6796	9 09	68 18	14.56						845042
52 85	BESANCON, FRANCE	6797	9 09	68 18	14.56						845042
52 86	BESANCON, FRANCE	6798	9 09	68 18	14.56						845042
52 87	BESANCON, FRANCE	6799	9 09	68 18	14.56						845042
52 88	BESANCON, FRANCE	6800	9 09	68 18	14.56						845042
52 89	BESANCON, FRANCE	6801	9 09	68 18	14.56						845042
52 90	BESANCON, FRANCE	6802	9 09	68 18	14.56						845042
52 91	BESANCON, FRANCE	6803	9 09	68 18	14.56						845042
52 92	BESANCON, FRANCE	6804	9 09	68 18	14.56						845042
52 93	BESANCON, FRANCE	6805	9 09	68 18	14.56						845042
52 94	BESANCON, FRANCE	6806	9 09	68 18	14.56						845042
52 95	BESANCON, FRANCE	6807	9 09	68 18	14.56						845042
52 96	BESANCON, FRANCE	6808	9 09	68 18	14.56						845042
52 97	BESANCON, FRANCE	6809	9 09	68 18	14.56						845042
52 98	BESANCON, FRANCE	6810	9 09	68 18	14.56						845042
52 99	BESANCON, FRANCE	6811	9 09	68 18	14.56						845042
53 00	BESANCON, FRANCE	6812	9 09	68 18	14.56						845042

OBJ NO	STATION	STA NO	DATE	TIME	R. A.	DECL.	AZIMUTH	ALTITUDE	RANGE	INDEX
53074	BRNO, CZECH.	2720	9 10	18 44 01.0	13 54 20	19 18				743042
53613	BESANCON, FRANCE	2727	9 10	18 45 07.6			272 44	49 40		834309
51990	MEUDON, FRANCE	2715	9 10	18 45 20.3			251 48	63 51		837109
52040	EL GULEA, ALG.	6411	9 10	18 46 00.0			328 06	19 30		845309
51991	MEUDON, FRANCE	2715	9 10	18 46 04.7			233 39	70 20		837109
53614	BESANCON, FRANCE	2727	9 10	18 46 27.00			259 01	67 26		834309
53615	BESANCON, FRANCE	2727	9 10	18 47 11.91			238 47	75 33		834309
51992	MEUDON, FRANCE	2715	9 10	18 47 15.4			179 48	73 21		837109
56107	Sonneberg, GER.	2730	9 10	18 47 48.4	17 23 06	22 48				834049
52041	EL GULEA, ALG.	6411	9 10	18 48 00.0			343 24	15 94		845309
51993	MEUDON, FRANCE	2715	9 10	18 48 08.6			139 19	66 30		837109
53616	BESANCON, FRANCE	2727	9 10	18 48 14.32			161 36	76 46		834309
53481	LVIV, USSR	1031	9 10	18 48 15.1	16 07 00	17 30				845009
51994	MEUDON, FRANCE	2715	9 10	18 49 02.1			126 31	53 28		837109
53617	BESANCON, FRANCE	2727	9 10	18 49 18.12			130 05	63 39		834309
53472	KIEV, USSR	1023	9 10	18 49 36.6	16 35 36	10 42				845009
52042	EL GULEA, ALG.	6411	9 10	18 50 00.0			4 48	29 54		845309
53618	BESANCON, FRANCE	2727	9 10	18 50 01.37			123 16	54 52		834309
53793	Sonneberg	2730	9 10	18 50 10.4	19 42 06	13 06				834049
51995	MEUDON, FRANCE	2715	9 10	18 50 14.2			119 21	41 23		837109
51996	MEUDON, FRANCE	2715	9 10	18 51 04.3			116 38	36 21		837109
53619	BESANCON, FRANCE	2727	9 10	18 51 19.30			117 39	40 46		834309
53486	ICHERNOVITSY, USSR	1062	9 10	18 51 22.4	17 25 00	16 30				845009
53482	LVIV, USSR	1031	9 10	18 51 48.2	19 02 00	6 42				845009
53473	KIEV, USSR	1023	9 10	18 51 56.2	16 18 42	4 18				845009
52043	EL GULEA, ALG.	6411	9 10	18 52 00.0			28 36	28 24		845309
51997	MEUDON, FRANCE	2715	9 10	18 52 03.3			114 27	27 12		837109
53465	KIEV, USSR	1070	9 10	18 52 05.7	16 45 00	3 48				845009
53620	BESANCON, FRANCE	2727	9 10	18 52 08.84			115 32	33 45		834309
53466	KIEV, USSR	1070	9 10	18 52 29.2	16 41 48	2 00				845009
53675	BRNO, CZECH.	2720	9 10	18 52 39.9	20 46 30	3 36				737042
53621	BESANCON, FRANCE	2727	9 10	18 53 12.35			114 21	26 20		834309
51998	MEUDON, FRANCE	2715	9 10	18 53 13.6			112 48	20 30		837109
52044	EL GULEA, ALG.	6411	9 10	18 54 00.0			47 54	23 30		845309
53622	BESANCON, FRANCE	2727	9 10	18 54 09.33			113 22	20 49		834309
51999	MEUDON, FRANCE	2715	9 10	18 54 54.4			112 04	16 01		837109
52050	MEUDON, FRANCE	2715	9 10	18 55 12.7			111 08	11 37		837109
53665	BRATISLAVA, CZECH.	5702	9 10	18 55 19.4	22 04 30	- 6 00				834047
53623	BESANCON, FRANCE	2727	9 10	18 55 20.53			112 43	14 57		834309
53483	LVIV, USSR	1031	9 10	18 55 53.0	21 32 00	-11 18				845009
52045	EL GULEA, ALG.	6411	9 10	18 56 00.0			61 34	16 00		845309
53487	ICHERNOVITSY, USSR	1062	9 10	18 56 00.0	20 57 36	- 4 24				845009
53469	UJGOROD, USSR	1055	9 10	18 56 08.2	14 13 30	17 30				845009
52046	EL GULEA, ALG.	6411	9 10	18 58 00.0			71 24	10 06		845309
10619	WOMMERATH, AUSTR.	9003	9 10	19 36 29.7	23 09 18	-70 40				834023
53591	BOCHUM, GER.	8599	9 10	19 49 11.2	19 29 45	16 57				845002
53624	BESANCON, FRANCE	2727	9 10	20 44 54.64			280 16	16 20		834309
52051	MEUDON, FRANCE	2715	9 10	20 45 05.4			275 29	18 29		837109
53625	BESANCON, FRANCE	2727	9 10	20 45 24.58			276 23	15 12		834309
52052	MEUDON, FRANCE	2715	9 10	20 46 01.7			268 49	22 42		837109
53626	BESANCON, FRANCE	2727	9 10	20 46 07.49			275 16	16 21		834309
52047	EL GULEA, ALG.	6411	9 10	20 46 30.0			310 12	4 12		845309
53787	POTSDAM	2729	9 10	20 46 37.3	19 44 00	7 32				834049
52053	MEUDON, FRANCE	2715	9 10	20 47 16.2			260 19	28 26		837109
53627	BESANCON, FRANCE	2727	9 10	20 47 33.00			267 46	24 50		834309
52054	MEUDON, FRANCE	2715	9 10	20 48 04.7			252 59	32 19		837109
53628	BESANCON, FRANCE	2727	9 10	20 48 19.00			261 22	28 25		834309
52048	EL GULEA, ALG.	6411	9 10	20 48 30.0			313 48	25 00		845309
53788	POTSDAM	2729	9 10	20 48 33.3	16 38 10	4 18				834049
52055	MEUDON, FRANCE	2715	9 10	20 49 09.3			240 22	36 54		837109
53629	BESANCON, FRANCE	2727	9 10	20 49 15.68			252 26	32 45		834309
53944	PARNHAM, ENGLAND	8048	9 10	20 49 33.6	18 08 30	4 42				845049
52056	MEUDON, FRANCE	2715	9 10	20 50 06.7			226 49	39 30		837109
53789	POTSDAM	2729	9 10	20 50 10.6	17 29 24	0 02				834049
53630	BESANCON, FRANCE	2727	9 10	20 50 16.57			240 22	36 42		834309
52049	EL GULEA, ALG.	6411	9 10	20 50 30.0			320 12	40 12		845309
52007	MEUDON, FRANCE	2715	9 10	20 51 30.14			222 59	40 09		837109
53631	BESANCON, FRANCE	2727	9 10	20 51 01.64			229 52	38 38		834309
56108	Sonneberg, GER.	2730	9 10	20 51 02.1	17 55 00	0 06				834049
10625	SAN FERNANDO, SP.	9004	9 10	20 51 21.30	20 27 12	47 01				834013
53632	BESANCON, FRANCE	2727	9 10	20 52 05.62			213 50	39 13		834309
52058	MEUDON, FRANCE	2715	9 10	20 52 11.8			193 19	27 28		837109
52050	EL GULEA, ALG.	6411	9 10	20 52 30.0			337 18	63 42		845309
52059	MEUDON, FRANCE	2715	9 10	20 53 00.6			185 06	34 59		837109
53633	BESANCON, FRANCE	2727	9 10	20 53 07.61			198 54	37 21		834309
53794	Sonneberg	2730	9 10	20 53 47.6	19 11 36	- 8 30				834049
53474	UJGOROD, USSR	1055	9 10	20 53 56.9	18 32 42	- 8 00				845009
52051	EL GULEA, ALG.	6411	9 10	20 54 00.0			27 36	14 34		845309
53634	BESANCON, FRANCE	2727	9 10	20 54 06.99			186 56	33 51		834309
53790	POTSDAM	2729	9 10	20 54 15.8	19 40 48	-14 48				834049
52010	MEUDON, FRANCE	2715	9 10	20 54 17.0			172 43	9 18		837109
34170	SACRAMENTO, CAL.	8517	9 11	0 33 36.6			0 00	53 49		641304
33322	MILWAUKEE, WISC.	0074	9 11	0 42 12.5			356 48	73 06		641304
33331	ROCHESTER, N.Y.	0047	9 11	0 44 55.2	20 14 54	37 51				845033
33332	ROCHESTER, N.Y.	0047	9 11	0 45 22.0	20 43	33 21				845033
33328	MILWAUKEE, WISC.	0074	9 11	0 46 19.4			92 24	30 00		641304
52724	WESTFIELD, MASS.	5021	9 11	0 50 38	22 53	0 18				637007
10616	OLIFANTSFENTIN, S.A.F.	9002	9 11	1 25 29.97	22 56 00	-66 44				434023
10617	OLIFANTSFENTIN, S.A.F.	9002	9 11	1 31 14.96	8 27 54	-68 02				434023
34171	SACRAMENTO, CAL.	8517	9 11	2 38 30.7			0 00	50 46		641304
33314	SAN DIEGO, CAL.	0133	9 11	2 39 42.0	20 10	87 54				845042
33315	SAN DIEGO, CAL.	0133	9 11	2 39 55.9	22 18	85 54				845042
33329	MILWAUKEE, WISC.	0074	9 11	2 39 56.8			288 24	19 00		641304
33333	ALBUQUERQUE, N.M.	8579	9 11	2 42 08.1			0 00	50 00		845304

OBS NO	STATION	STA NO	DATE	TIME	R. A.	W. L.	AP. MUTH	AP. TITUDE	RANGE	INDEX
33335	DENVER, COLO.	8582	9 11	2 42 37.25			0 00 00	73 15 00		645303
33330	MILWAUKEE, WISC.	0074	9 11	2 44 43.7			274 12	36 36		645304
33337	FT. WORTH, TEX.	0139	9 11	2 44 14.0	18 24 30	71 12				645305
33338	TUCSON, ARIZ.	0003	9 11	2 46 29.5			5 36	37 12		645306
52814	MADISON, WISC.	5078	9 11	2 46 29.0	20 34 24	1 00				637007
33252	ROANOKE, VA.	3013	9 11	2 48 45	19 06 12	17 15				645302
33336	DENVER, COLO.	8582	9 11	2 48 57.0			104 30	24 00		645303
52978	SPOKANE, WASH.	8142	9 11	2 48 50.0			270 00	22 00		645302
52979	SPOKANE, WASH.	8142	9 11	2 42 54.7			224 00	42 00		645302
52815	MADISON, WISC.	5078	9 11	2 46 29.0	17 27 33	1 36				637007
55708	REDMOND, OREGON	5093	9 11	2 46 55	12 50	4 36				637009
52816	MADISON, WISC.	5078	9 11	2 46 29.0	17 48 00	-1 21				637007
52980	SPOKANE, WASH.	8142	9 11	2 47 02.4			109 18	27 34		645302
34172	SACRAMENTO, CAL.	8517	9 11	2 47 47.0	21 46 30	10 59				645303
52817	MADISON, WISC.	5078	9 11	2 48 47.0	21 12 24	-1 09				637007
34173	SACRAMENTO, CAL.	8517	9 11	2 44 06.2	16 59 12	9 57				645303
55707	REDMOND, OREGON	5093	9 11	2 45 06	18 00	3 36				637009
10628	VILLA DOLORES, B.N. ARG.	9011	9 11	2 21 31.54	3 23 30	-58 45				645023
10629	VILLA DOLORES, B.N. ARG.	9011	9 11	2 27 16.71	8 43 30	-49 45				645023
10630	VILLA DOLORES, B.N. ARG.	9011	9 11	2 25 06.77	23 11 00	-71 15				645023
34136	SAN JUAN, ARG.	9011	9 11	2 26 17.00	9 46 12	-75 36				645002
10631	VILLA DOLORES, B.N. ARG.	9011	9 11	2 32 10.60	10 39 42	-54 30				645023
33993	ASAHIKAWA, JAPAN	3201	9 11	16 34 36.2	16 37 00	36 24				645003
33994	ASAHIKAWA, JAPAN	3201	9 11	16 41 12.7	16 13	-1 00				645002
33996	SAPPORO, JAPAN	3245	9 11	16 41 37	22 36	-6				645002
33995	ASAHIKAWA, JAPAN	3201	9 11	16 41 46.2	22 37	-7 26				645003
33339	HSINGCHU CITY, TAIWAN	3505	9 11	16 35 45.5	15 06	73 12				645042
33340	HSINGCHU CITY, TAIWAN	3505	9 11	16 38 23.5	21 21	70 36				645042
33999	SAPPORO, JAPAN	3245	9 11	16 39 47	18 34	-4				645002
34000	KAGOSHIMA, JAPAN	3218	9 11	16 39 48.6	19 28	15 00				645002
33998	ASAHIKAWA, JAPAN	3201	9 11	16 40 49.6	18 33	-5				645003
53451	EREVAN, USSR	1018	9 11	16 23 47.7	12 46 42	18 24				645003
53452	EREVAN, USSR	1018	9 11	16 25 50.7	13 32 30	49 18				645003
53447	KRASNOYAR, USSR	1027	9 11	16 26 32.7	16 23 30	38 24				645003
53448	KRASNOYAR, USSR	1027	9 11	16 29 17.2	20 43	32 12				645003
53449	ROSTOV, USSR	1041	9 11	16 30 09.7	16 41 00	17 30				645003
53490	STALINABAD, USSR	1068	9 11	16 30 31.7	15 24 42	21 11				645003
53453	ORENBURG, USSR	1063	9 11	16 31 11.7	14 18 00	-6 30				645003
53491	STALINABAD, USSR	1068	9 11	16 33 22.4	18 04 12	14 26				645003
53488	TACHENT, USSR	1075	9 11	16 35 24.0	16 41 12	10 48				645003
53492	STALINABAD, USSR	1068	9 11	16 35 33.6	17 47 24	17 48				645003
10622	SHIRAZ, IRAN	9008	9 11	16 35 42.0	13 39 12	31 27				645003
53450	ROSTOV, USSR	1041	9 11	16 35 52.7	12 49 00	7 48				645003
53489	TACHENT, USSR	1075	9 11	16 36 01.7	10 07 00	-6 18				645003
53666	BRATISLAVA, CZECH.	5702	9 11	16 36 42.0	13 16 15	19 51				637047
53484	RIGA, USSR	1045	9 11	16 24 00.1	15 46 11	6 06				645003
53676	BRNO, CZECH.	5711	9 11	16 25 27.7	16 41 00	19 05				637042
56109	Sonneberg, GER.	2736	9 11	16 27 49.7	17 31 36	12 36				637047
53485	RIGA, USSR	1045	9 11	16 29 04.9	19 23 42	-5 35				645003
53445	EREVAN, USSR	1018	9 11	16 30 06.7	16 18 00	11 12				645003
53677	BRNO, CZECH.	5720	9 11	16 30 07.1	16 40 30	17 30				637042
51912	MELDON, FRANCE	2717	9 11	16 31 16.0			107 11	20 30		637007
53667	BRATISLAVA, CZECH.	5702	9 11	16 33 21.0	12 17 36	-6 05				637047
51913	MELDON, FRANCE	2717	9 11	16 33 29.0			108 47	20 30		637007
53446	EREVAN, USSR	1018	9 11	16 34 08.3	17 11 42	1 42				645003
35092	BURHUM, GER.	3599	9 11	16 26 34.7	14 54 20	10 36				645002
35093	BURHUM, GER.	3599	9 11	16 26 42.9	15 07 10	10 36				645002
53635	BESANCON, FRANCE	2727	9 11	16 27 43.08			104 37	13 36		637007
53636	BESANCON, FRANCE	2727	9 11	16 27 04.73			105 30	13 36		637007
56011	POTSDAM, GER.	2729	9 11	16 27 48.0	15 01 16	6 46				637047
53637	BESANCON, FRANCE	2727	9 11	16 27 44.24			170 00	10 36		637007
51914	MELDON, FRANCE	2715	9 11	16 27 43.00			106 11	13 36		637007
53638	BESANCON, FRANCE	2727	9 11	16 27 10.73			171 11	12 36		637007
51915	MELDON, FRANCE	2715	9 11	16 27 10.00			107 11	13 36		637007
56110	Sonneberg, GER.	2730	9 11	16 27 48.00	16 46 24	5 34				637047
53639	BESANCON, FRANCE	2727	9 11	16 27 00.73			107 11	13 36		637007
51916	MELDON, FRANCE	2715	9 11	16 27 11.00			107 11	13 36		637007
52052	EL GULEA, ALG.	6411	9 11	16 26 00.00			104 11	13 36		637007
53640	BESANCON, FRANCE	2727	9 11	16 26 10.01			104 11	13 36		637007
51917	MELDON, FRANCE	2715	9 11	16 26 10.00			104 11	13 36		637007
53945	FARNHAM, ENGLAND	4048	9 11	16 26 48.00	17 38 42	5 18				645003
53641	BESANCON, FRANCE	2727	9 11	16 27 27.76			104 11	13 36		637007
51918	MELDON, FRANCE	2715	9 11	16 27 33.00			104 11	13 36		637007
56012	POTSDAM, GER.	2729	9 11	16 27 49.00	17 18 16	-6 40				637047
52053	EL GULEA, ALG.	6411	9 11	16 28 00.00			104 11	13 36		637007
51919	MELDON, FRANCE	2715	9 11	16 28 00.00			104 11	13 36		637007
10621	SAN FERNANDO, B.N. ARG.	9004	9 11	16 28 16.00	20 00 00	21 19				645003
53678	BRNO, CZECH.	5720	9 11	16 28 00.00	17 40	6 06				637042
51920	MELDON, FRANCE	2715	9 11	16 28 16.00			104 11	13 36		637007
56111	Sonneberg, GER.	2730	9 11	16 28 00.00	18 40 16	-6 18				637047
52054	EL GULEA, ALG.	6411	9 11	16 30 00.00			104 11	13 36		637007
51921	MELDON, FRANCE	2715	9 11	16 30 16.00			104 11	13 36		637007
53679	BRNO, CZECH.	5720	9 11	16 30 16.00	18 41 00	-8 30				637042
51922	MELDON, FRANCE	2715	9 11	16 31 16.00			104 11	13 36		637007
51923	MELDON, FRANCE	2715	9 11	16 32 16.00			104 11	13 36		637007
56013	POTSDAM, GER.	2729	9 11	16 32 16.00	20 00 16	-18 32				637047
52055	EL GULEA, ALG.	6411	9 11	16 34 32.00			104 11	13 36		637007
34174	SACRAMENTO, CAL.	8517	9 12	0 16 41.7			0 00	23 02		645304
33341	TERRE HAUTE, IND.	8127	9 12	0 18 30.2			0	23 00		645304
10633	OLIFANTGENTINEN, B.N. ARG.	9002	9 12	1 03 36.06	23 47 00	-74 30				645303
10634	OLIFANTGENTINEN, B.N. ARG.	9002	9 12	1 03 35.50	23 47 00	-76 34				645303
33345	DENVER, COLO.	8582	9 12	2 25 27.0			314 45 00	40 36		645303
34175	SACRAMENTO, CAL.	8517	9 12	2 25 36.4			0 00	49 28		645304
33334	ALBUQUERQUE, N.M.	8579	9 12	2 19 11.1			0 00	47 30		645302

OBS NO	STATION	STA NO	DATE	TIME	H. A.	DECL.	AZIMUTH	ALTITUDE	RANGE	INDEX
33346	CHICAGO, ILL.	0020	9 12	2 19 56			282 30	36		845302
33342	TERRE HAUTE, IND.	8127	9 12	2 21 36.7			283 30	36 45		845303
36012	TERRE HAUTE, IND.	8127	9 12	2 23 07.9	18 37 12	30 39				845043
36013	TERRE HAUTE, IND.	8127	9 12	2 23 11.3	18 34 18	30 49				845043
36014	TERRE HAUTE, IND.	8127	9 12	2 23 24.2	18 18 48	32 15				845043
36015	TERRE HAUTE, IND.	8127	9 12	2 23 26.6	18 16 24	32 36				845043
33350	NEW ORLEANS, LA.	0030	9 12	2 23 52			0 03	54 00		845302
33347	CHICAGO, ILL.	0020	9 12	2 24 26.8	19 47	13 30				845042
33343	TERRE HAUTE, IND.	8127	9 12	2 24 44.7			189	70 00		845302
10625	JUPITER BN, FLA.	9010	9 12	2 26 51.19	19 55 00	52 29				434013
33348	CHICAGO, ILL.	0020	9 12	2 27 06			148 30	36 42		845302
33349	CHICAGO, ILL.	0020	9 12	2 27 06	21 34 30	5 05				845042
10626	JUPITER BN, FLA.	9010	9 12	2 27 07.19	20 15 42	50 14				434013
33312	M. CANTON, OHIO	8544	9 12	2 27 08.5	20 38 30	- 2 51				845042
33351	FT. WORTH, TEX.	0139	9 12	2 27 09.4	23 27 00	15 36				845013
33352	DALLAS, TEX.	0129	9 12	2 27 09.47	23 28 36	16 09				845043
10635	OLIFANTS FNT BN, S. AF.	9002	9 12	3 05 44.80	21 51 00	-55 52				434023
52981	SPOKANE, WASH.	8142	9 12	4 15 54.1			270 54	22 42		845302
34176	SACRAMENTO, CAL.	8517	9 12	4 20 55.7	18 56 48	41 17				841013
34177	SACRAMENTO, CAL.	8517	9 12	4 21 26.1			180 00	68 44		841304
33316	SAN DIEGO, CAL.	0133	9 12	4 21 33.9	17 52	57 00				845042
34178	SACRAMENTO, CAL.	8517	9 12	4 22 10.6	20 23 12	29 50				841013
33353	VAN NUYS, CAL.	0113	9 12	4 22 33.8			6 54	77 42		845303
33355	CHINA LAKE, CAL.	0098	9 12	4 24 20.5			119 54 00	66 00 36		841303
52982	SPOKANE, WASH.	8142	9 12	4 25 15.5			157 54	25 30		845302
33317	SAN DIEGO, CAL.	0133	9 12	4 25 19.7	22 11	22 24				845042
33354	VAN NUYS, CAL.	0113	9 12	4 25 20.6			110 42	52 48		845303
34179	SACRAMENTO, CAL.	8517	9 12	6 20 20.8	16 15 06	13 43				841013
34180	SACRAMENTO, CAL.	8517	9 12	6 20 51.4	16 30 06	12 40				841013
10648	MAUI BN, HAWAII	9012	9 12	6 21 38.00	0 24 00	59 00				843013
34181	SACRAMENTO, CAL.	8517	9 12	6 22 31.0	17 18 12	6 33				841013
55709	REDMOND P, OREGON	5093	9 12	6 23 18	18 14	7 12				837009
10640	OLIFANTS FNT BN, S. AF.	9011	9 12	6 58 31.53	3 07 30	-66 55				434023
10641	VILLA ODOLOS BN, ARG	9011	9 12	9 03 41.60	0 45 12	-83 31				434023
34001	KANAYA MACHI, JAPAN	0220	9 12	10 10 55	14 38	75 18				845002
33356	HSINGCHU CITY, TAIWAN	0505	9 12	12 16 51.6	22 59	56 48				845042
52076	IRKUTSK, USSR	1079	9 12	14 07 49.9	15 42 18	7 00				845009
52074	ABAKAN, USSR	1001	9 12	14 09 45.7	17 47 30	0 54				845009
52077	IRKUTSK, USSR	1079	9 12	14 10 55.0	16 33	- 8 14				845009
10637	MAINI TAL BN, INDIA	9006	9 12	14 11 06.42	22 50 36	66 42				434013
52075	ABAKAN, USSR	1001	9 12	14 13 36.4	16 56 30	- 6 00				845009
52056	BAKU, USSR	1007	9 12	16 04 10.8	14 07 30	47 42				845009
52078	BAKU, USSR	1007	9 12	16 04 48.5	17 40 30	53 48				845009
52057	BAKU, USSR	1007	9 12	16 06 31.0	17 14 30	54 36				845009
52079	BAKU, USSR	1007	9 12	16 06 35.7	20 15 12	40 30				845009
52058	BAKU, USSR	1007	9 12	16 07 05.5	16 19 30	52 54				845009
52080	TASHKENT, USSR	1075	9 12	16 07 42.6	15 32 00	26 36				845009
52095	STALINABAD, USSR	1068	9 12	16 07 55.2	15 21 30	33 06				845009
52059	BAKU, USSR	1007	9 12	16 08 01.1	19 39 30	45 54				845009
52096	STALINABAD, USSR	1068	9 12	16 09 54.5	16 58 36	30 54				845009
10642	SHIRAZ BN, IRAN	9006	9 12	16 10 50.31	22 47 06	57 26				434013
52081	TASHKENT, USSR	1075	9 12	16 12 37.4	19 40 30	5 06				845009
52097	STALINABAD, USSR	1068	9 12	16 12 46.4	19 46 36	13 18				845009
52098	STALINABAD, USSR	1068	9 12	16 13 03.9	20 01 12	10 48				845009
52082	TASHKENT, USSR	1075	9 12	16 14 11.8	20 40 12	- 5 42				845009
52089	TCHEKNOVITSY, USSR	1062	9 12	16 01 02.4	14 20	19 12				845009
52087	KIEV, USSR	1023	9 12	16 01 45.0	14 44 00	15 06				845009
52091	UJGOROD, USSR	1055	9 12	16 02 13.2	16 16 00	23 12				845009
52088	KIEV, USSR	1023	9 12	16 03 27.9	15 45 00	14 18				845009
52090	TCHEKNOVITSY, USSR	1062	9 12	16 04 11.2	16 28 30	20 36				845009
52083	RIGA, USSR	1040	9 12	16 04 52.1	17 57 30	- 1 30				845009
55795	EILENBURG, GER.	2732	9 12	16 05 35.4	19 50 18	7 18				834009
52092	UJGOROD, USSR	1055	9 12	16 06 15.5	19 52 30	6 12				845009
52084	RIGA, USSR	1040	9 12	16 06 32.0	19 06 00	- 5 24				845009
52093	UJGOROD, USSR	1055	9 12	16 06 03.4	21 00 00	- 2 46				845009
52085	EREVAN, USSR	1018	9 12	16 08 56.9	17 12 42	17 54				845009
53680	BRNO, CZECH.	2720	9 12	16 09 24.4	21 36	- 4 42				739041
52086	EREVAN, USSR	1018	9 12	16 10 01.9	18 03 30	12 12				845009
52094	UJGOROD, USSR	1055	9 12	16 10 02.8	21 52 00	-10 48				845009
10643	SHIRAZ BN, IRAN	9008	9 12	16 11 06.87	16 44 06	32 05				434013
33358	BERLIN, GER.	0700	9 12	19 03 50.1			163 30	44 46		845303
33359	BERLIN, GER.	0700	9 12	19 04 34.0			154 30	40 00		845303
33360	BERLIN, GER.	0700	9 12	19 08 55.2			130 44	15 30		845303
33361	HANOVER, GER.	0702	9 12	19 43 02.5			214 13 12	20 22 48		845102
51924	MEUDON, FRANCE	2715	9 12	19 56 45.20			276 30	16 16		837109
51925	MEUDON, FRANCE	2715	9 12	19 59 06.10			275 47	17 27		837109
51926	MEUDON, FRANCE	2715	9 12	20 00 08.00			270 42	24 42		837109
51927	MEUDON, FRANCE	2715	9 12	20 01 15.60			263 38	26 31		837109
56014	POISOAM, GER.	2729	9 12	20 01 32.0	15 24 00	7 50				834049
51928	MEUDON, FRANCE	2715	9 12	20 02 17.50			254 37	34 06		837109
52111	BESANCON, FRANCE	2727	9 12	20 02 29.98			263 34	29 41		834309
51929	MEUDON, FRANCE	2715	9 12	20 03 17.40			242 47	39 10		837109
52112	BESANCON, FRANCE	2727	9 12	20 03 18.01			256 18	33 57		834309
55796	EILENBURG, GER.	2732	9 12	20 03 45.7	16 16 18	5 00				834009
51930	MEUDON, FRANCE	2715	9 12	20 04 02.00			231 46	42 01		837109
52113	BESANCON, FRANCE	2727	9 12	20 04 13.26			245 26	36 30		834309
56015	POISOAM, GER.	2729	9 12	20 05 00.4	17 15 30	- 3 11				834049
10636	SAN FERNANDO BN, SP.	9004	9 12	20 05 08.00	19 46 18	56 02				434013
51931	MEUDON, FRANCE	2715	9 12	20 05 10.00			212 46	43 44		837109
52114	BESANCON, FRANCE	2727	9 12	20 05 21.41			228 05	42 26		834309
53681	BRNO, CZECH.	2720	9 12	20 05 54.4	17 14 30	2 06				739041
52115	BESANCON, FRANCE	2727	9 12	20 06 01.88			216 47	43 10		834309
56112	SONNEBERG, GER.	2730	9 12	20 06 09.1	17 56 18	- 1 06				834049
51932	MEUDON, FRANCE	2715	9 12	20 06 11.10			195 09	41 54		837109
51933	MEUDON, FRANCE	2715	9 12	20 07 05.30			182 13	38 21		837109

POS NO	STATION	SIA NO	DATE	TIME	H. A.	DEGL.	ARMSYTH	ALTITUDE	RANGE	BRDL
52116	BESANCON, FRANCE	2721	9 12	20 07 12.09			197 20	41 16		834309
52117	BESANCON, FRANCE	2721	9 12	20 08 09.70			164 14	27 22		834409
52118	SONNEBERG, GERM.	2730	9 12	20 08 37.0	19 33 24	-12 30				834409
53682	BRNO, CZECH.	2720	9 12	20 08 46.7	18 27 30	-10 30				743048
52118	BESANCON, FRANCE	2727	9 12	20 09 05.78			179 58	32 50		834309
52119	BESANCON, FRANCE	2727	9 12	20 10 33.17			166 12	27 27		834309
53667	HANOVER, GERM.	0702	9 12	20 10 33.9			170 45 00	17 09 00		834302
56016	POTSOM, GERM.	2729	9 12	20 10 47.5	20 19 30	-70 34				834049
53666	BERLIN, GERM.	0700	9 12	21 04 11.1			241 30	22 30		845303
53667	BERLIN, GERM.	0700	9 12	21 05 46.2			226 18	24 42		845303
53668	BERLIN, GERM.	0700	9 12	21 06 07.5			222 42	24 42		845303
53669	BERLIN, GERM.	0700	9 12	21 07 11.4			241 30	24 12		845303
54182	SACRAMENTO, CAL.	8517	9 12	23 47 42.3			0 00	56 28		841304
53435	FT. BELVOIR, VA.	0077	9 13	1 31 27.8			292 44	22 18		845301
54183	SACRAMENTO, CAL.	8517	9 13	1 52 37.7			0 00	49 15		841304
53370	DENVER, COLL.	8582	9 13	1 58 12.0			62 00	64 15 00		845303
53372	NEW ORLEANS, LA.	0030	9 13	2 00 45			0 00	51 00		845302
53374	ROCHESTER, N.Y.	8584	9 13	2 01 06.4	17 33	11 19				845303
53374	TERRE HAUTE, IND.	8127	9 13	2 01 35.0			180	12 20		845302
53375	TERRE HAUTE, IND.	8127	9 13	2 01 55.2	19 58 30	21 58				845048
53376	TERRE HAUTE, IND.	8127	9 13	2 01 57.2	20 01 12	21 53				845048
53379	CHATTANOOGA, TENN.	0062	9 13	2 02 02			140	86		845303
53253	ROANOKE, VA.	0073	9 13	2 05 00	20 12	3 15				845042
12638	JUPITER, FLA.	9010	9 13	2 05 03.74	19 47 36	43 39				843013
52724	WESTFIELD, MASS.	5021	9 13	2 05 11	19 43 42	-9 42				837007
12639	JUPITER, FLA.	9010	9 13	2 05 19.74	21 31 24	00 42				843013
12642	ELIZABETH, N.J.	5032	9 13	2 51 47.33	18 59 00	-63 28				843013
52983	SPOKANE, WASH.	8142	9 13	3 52 50.00			281 00	23 18		845302
52984	SPOKANE, WASH.	8142	9 13	3 57 03.3			246 44	40 46		845302
54184	SACRAMENTO, CAL.	8517	9 13	3 57 18.1	17 45 12	48 27				845303
54185	SACRAMENTO, CAL.	8517	9 13	3 58 18.5			0 00	67 00		841304
54186	SACRAMENTO, CAL.	8517	9 13	3 58 56.4	20 00 42	35 26				841013
53380	SAN DIEGO, CAL.	0133	9 13	3 59 16.6	28 54	57 30				845304
53382	VAN NUTS, CAL.	0113	9 13	3 59 22.5			4 30	73 06		845303
53383	CHINA LAKE, CAL.	0098	9 13	4 01 25.1			47 02 44	64 00 00		841303
53384	SAN ANTONIO, TEX.	8543	9 13	4 02 58	17 57	29 35				845042
52985	SPOKANE, WASH.	8142	9 13	4 03 25.5			149 36	19 06		845302
53385	SAN DIEGO, CAL.	0133	9 13	4 03 27.7	22 38	13 10				845302
53371	DENVER, COLL.	8584	9 13	4 03 28.8			167 00	44 36		845303
54187	SACRAMENTO, CAL.	8517	9 13	5 59 14.0	20 00 46	4 30				841013
12647	MAUI, HAWAII	9014	9 13	6 01 16.10	0 49 24	36 32				843013
54188	SACRAMENTO, CAL.	8517	9 13	6 01 30.3	20 05 30	-1 00				841013
53385	VAN NUTS, CAL.	0113	9 13	6 01 41.7			259 36	48 42		845303
54189	SACRAMENTO, CAL.	8517	9 13	6 01 44.7	18 13 42	-3 40				841013
54102	ASAHIKAWA, JAPAN	0201	9 13	9 55 36.1	22 02 30	-1 06				845002
54103	ASAHIKAWA, JAPAN	0201	9 13	9 57 47.0	22 42	-8				845002
54104	SAPPORO, JAPAN	0245	9 13	9 57 59	22 47	-9				845002
53386	PASAT CITY, PHILS.	0501	9 13	11 52 08			4	10		845302
54105	YATSUMIRU, JAPAN	0272	9 13	11 54 27			90 00	88 42		845302
54107	SAPPORO, JAPAN	0245	9 13	13 53 18	18 14	-3				845002
54106	YAGOSHIMA, JAPAN	0218	9 13	13 53 57.3	18 52 48	-10 78				845002
52172	EREVAN, USSR	1018	9 13	15 40 32.2	15 37 34	55 12				845009
52173	EREVAN, USSR	1018	9 13	15 43 34.6	15 17 00	58 30				845009
52163	TASHKENT, USSR	1075	9 13	15 45 13.2	15 34 00	27 42				845009
52164	TASHKENT, USSR	1075	9 13	15 46 00.5	16 00 12	18 42				845009
12646	NAINI TALAB, INDIA	9006	9 13	15 50 38.09	16 58 36	39 26				843013
52165	TASHKENT, USSR	1075	9 13	15 50 46.2	20 19 30	-0 46				845009
52160	STALINABAD, USSR	1068	9 13	15 50 51.5	20 32 36	6 42				845009
12649	SHIRAZ, IRAN	9008	9 13	15 51 38.32	23 38 12	18 10				843013
52166	TASHKENT, USSR	1075	9 13	15 52 17.7	22 12 42	-9 24				845009
52169	LVOV, USSR	1031	9 13	17 39 27.0	15 05 30	20 18				845009
52170	LVOV, USSR	1031	9 13	17 42 43.9	16 04 00	12 44				845009
52161	EREVAN, USSR	1018	9 13	17 44 16.7	15 42 44	24 40				845009
52171	LVOV, USSR	1031	9 13	17 44 37.0	15 37 35	4 06				845009
52162	EREVAN, USSR	1018	9 13	17 46 49.6	17 39 30	6 42				845009
12650	SHIRAZ, IRAN	9008	9 13	17 48 15.04	26 32 12	34 40				843013
52167	TASHKENT, USSR	1075	9 13	17 49 00.9	17 09 00	-1 00				845009
52168	TASHKENT, USSR	1075	9 13	17 50 30.6	17 46 30	-7 18				845009
12644	WOMERABAN, AUSTR.	9003	9 13	18 31 00.41	8 19 18	-76 23				845023
53668	BRATISLAVA, CZECH.	2732	9 13	19 39 49.7	15 07 34	12 00				834047
56147	POTSOM, GERM.	2729	9 13	19 40 00.2	15 45 36	6 12				834049
55197	EILENHAM, GERM.	2732	9 13	19 40 31.5	17 01 00	0 12				834009
53946	FARNHAM, ENGLAND	8048	9 13	19 41 32.0	17 58 36	5 36				845049
53387	BERLIN, GERM.	0700	9 13	19 41 51.8			234 24	24 34		845303
53388	BERLIN, GERM.	0700	9 13	19 42 44.0			225 24	20 34		845303
56114	SONNEBERG, GERM.	2730	9 13	19 43 24.4	17 51 48	-1 16				834044
53683	BRNO, CZECH.	2720	9 13	19 43 53.3	17 53 30	-0 54				834044
53989	BERLIN, GERM.	0700	9 13	19 44 51.6			203 44	24 42		845303
56118	POTSOM, GERM.	2729	9 13	19 44 56.2	20 44 18	-10 20				834049
53390	BERLIN, GERM.	0700	9 13	19 45 27.0			198 24	23 24		845303
53684	BRNO, CZECH.	2720	9 13	19 45 42.9	18 39 32	-9 06				736041
56115	SONNEBERG, GERM.	2730	9 13	19 46 15.7	19 37 42	-13 48				834049
55198	EILENHAM, GERM.	2732	9 13	19 47 06.9	20 23 00	-20 36				834009
53669	BRATISLAVA, CZECH.	2732	9 13	19 48 29.7	20 04 47	-19 34				834047
56119	POTSOM, GERM.	2729	9 13	19 48 57.2	20 38 06	-23 35				834049
12645	SAN FERNANDO, P.R.	9004	9 13	21 46 33.20	18 32 06	1 06				843013
54190	SACRAMENTO, CAL.	8517	9 13	23 24 38.5			0 00	56 00		841304
53391	ROCHESTER, N.Y.	8584	9 13	23 34 46.4	17 36	52 00				845303
53377	TERRE HAUTE, IND.	8127	9 14	1 28 22.2			180	80 30		845302
54191	SACRAMENTO, CAL.	8517	9 14	1 29 34.8			0 00	48 36		841304
53378	TERRE HAUTE, IND.	8127	9 14	1 29 53.9			139 13	59 30		845303
53393	FT. WORTH, TEX.	0139	9 14	1 33 41.79	13 26 30	71 06				845303
53395	MILWAUKEE, WISC.	0074	9 14	1 33 50.2			280 48	38 24		841304

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33401	CHICAGO, ILL.	0020	9 14	1 33 58			285 00	37 00		845302
33405	DENVER, COLO.	8582	9 14	1 35 06.5			57 24	62 18		845303
33407	WICHITA, KAN.	0028	9 14	1 35 30.9	18 37 07	60 45				845043
33408	WICHITA, KAN.	0028	9 14	1 35 31.8	18 38 51	60 42				845043
33396	MILWAUKEE, WISC.	0074	9 14	1 37 10.1			217 06	67 54		841304
33402	CHICAGO, ILL.	0020	9 14	1 37 31			214 00	71 00		845302
33373	NEW ORLEANS, LA.	0030	9 14	1 37 34			0 00	47 30		845304
33409	BILLOXI, MISS.	0090	9 14	1 37 54			0	50 12		845304
33403	CHICAGO, ILL.	0020	9 14	1 39 25			154 30	57 00		845302
33397	MILWAUKEE, WISC.	0074	9 14	1 41 09.4			141 30	35 06		841304
10651	JUPITER, FLA.	9010	9 14	1 43 12.99	22 11 48	31 21				434013
33410	STATE COLLEGE, PA.	0060	9 14	1 43 17.0			162 00	35 36		845303
10652	JUPITER, FLA.	9010	9 14	1 43 27.70	22 19 36	28 20				434013
33392	ROCHESTER, N.Y.	8564	9 14	1 43 31	21 01	-16 54				845033
33394	FT. WORTH, TEX.	0137	9 14	1 44 30.59	23 52 18	3 54				845013
10653	OLIFANTSFENT, S.A.F.	9002	9 14	2 23 35.02	10 24 00	-83 07				434023
52986	SPOKANE, WASH.	8142	9 14	3 31 50.5			258 24	36 06		845304
33398	MILWAUKEE, WISC.	0074	9 14	3 33 15.1			262 54	7 00		841304
34192	SACRAMENTO, CAL.	8517	9 14	3 35 07.8			0 00	82 48		841304
34111	SAN DIEGO, CAL.	0133	9 14	3 35 11.2	26 47	63 36				845042
34193	SACRAMENTO, CAL.	8517	9 14	3 35 24.4	19 19 42	43 11				841013
33399	MILWAUKEE, WISC.	0074	9 14	3 35 54.4			265 14	15 18		841304
33416	YAN NUYS, CAL.	0113	9 14	3 36 09.9			3 00	66 00		845303
33417	CHINA LAKE, CAL.	0098	9 14	3 36 21.0			3 00 00	77 29 24		841303
33412	SAN DIEGO, CAL.	0133	9 14	3 37 54.4	21 05	43 48				845042
33400	MILWAUKEE, WISC.	0074	9 14	3 39 32.7			242 36	21 12		841304
52818	MADISON, WISC.	5078	9 14	3 41 10.9	18 32 30	-12 30				637007
52819	MADISON, WISC.	5078	9 14	3 41 11.0	18 32 30	-12 30				637007
52987	SPOKANE, WASH.	8142	9 14	3 41 31.6			142 42	15 12		845302
33413	SAN DIEGO, CAL.	0133	9 14	3 41 38.9	22 57	6 36				845042
33406	DENVER, COLO.	8582	9 14	3 41 42.0			170 00	37 45 00		845303
10658	MAUI, HAWAII	9012	9 14	5 35 27.70	0 07 24	60 10				434013
34194	SACRAMENTO, CAL.	8517	9 14	5 36 46.3	16 51 48	8 58				841013
33418	SACRAMENTO, CAL.	8517	9 14	5 39 39.9	18 34 24	-7 27				841013
33422	YAN NUYS, CAL.	0113	9 14	5 39 49.1			246 18	34 00		845303
33423	QUEZON CITY, PH. IS.	8563	9 14	11 24 23			8	16		845302
33427	PASAY CITY, PH. IS.	0501	9 14	11 24 51.50			10 30 00	16		845302
33424	QUEZON CITY, PH. IS.	8563	9 14	11 30 09			13 30	17 30		845302
33426	QUEZON CITY, PH. IS.	0500	9 14	11 30 20			14	18		845302
33429	QUEZON CITY, PH. IS.	0500	9 14	11 30 30			16	18		845302
33425	QUEZON CITY, PH. IS.	8563	9 14	11 31 30			15	19 30		845302
33431	TAIPEI, TAIWAN	0502	9 14	11 31 36.1	23 12 30	49 06				845042
34010	KANAYA MACHI, JAPAN	0220	9 14	11 32 01	19 12	24				845002
33430	QUEZON CITY, PH. IS.	0500	9 14	11 32 16			30	20		845302
33432	TAIPEI, TAIWAN	0502	9 14	11 33 08.1	23 52 30	33 06				845042
33426	QUEZON CITY, PH. IS.	8563	9 14	11 33 35			43	20		845302
16559	TOKYO, JAPAN	9005	9 14	11 34 11.50	20 02 00	-3 05				434013
34011	YATSUSHIRO, JAPAN	0272	9 14	11 34 15			213 00	24 48		845302
34012	KAGOSHIMA, JAPAN	0216	9 14	11 34 41	24 11	8 14				845002
33457	HSINGCHU CITY, TAIWAN	0505	9 14	13 31 17.4	16 40	32 14				845042
53559	STALINABAD, USSR	1068	9 14	15 21 16.7	14 16 30	35 44				845009
53542	TASHKENT, USSR	1075	9 14	15 22 23.5	15 25 00	29 30				845009
10660	SHIRAZ, IRAN	9008	9 14	15 23 44.04	22 28 00	66 37				434013
53560	STALINABAD, USSR	1068	9 14	15 25 15.4	17 59 42	30 36				845009
53543	TASHKENT, USSR	1075	9 14	15 26 12.0	18 59 00	12 36				845009
53561	STALINABAD, USSR	1068	9 14	15 26 45.2	19 38 00	17 54				845009
53562	STALINABAD, USSR	1068	9 14	15 27 12.8	19 38 54	14 18				845009
53544	TASHKENT, USSR	1075	9 14	15 28 19.3	20 42 30	-4 00				845009
10657	NAINI TAL, INDIA	9006	9 14	15 30 21.45	19 52 48	13 10				434013
53545	TASHKENT, USSR	1075	9 14	15 30 27.3	20 37 00	-14 14				845009
53553	KIEV, USSR	1023	9 14	17 12 18.7	25 11 06	16 06				845009
53557	LVOV, USSR	1031	9 14	17 17 36.4	19 44 30	21 36				845009
53549	NIKOLAIEV, USSR	1077	9 14	17 18 35.7	16 15 24	21 00				845009
53555	ICHERNOVITSY, USSR	1062	9 14	17 18 45.2	15 11	10 54				845009
53540	EREVAN, USSR	1018	9 14	17 20 07.5	14 43 00	27 06				845009
53558	LVOV, USSR	1031	9 14	17 20 49.1	18 35 00	10 12				845009
53541	EREVAN, USSR	1018	9 14	17 20 41.2	15 02 18	26 42				845009
52152	UJGOROD, USSR	1055	9 14	17 21 45.6	19 52 30	6 42				845009
53550	NIKOLAIEV, USSR	1077	9 14	17 21 56.7	18 48 00	10 18				845009
53554	KIEV, USSR	1023	9 14	17 22 30.5	20 40 30	-9 36				845009
53551	NIKOLAIEV, USSR	1077	9 14	17 23 13.2	19 30 00	2 48				845009
53556	ICHERNOVITSY, USSR	1062	9 14	17 25 33.2	21 12 30	-9 54				845009
53552	KIEV, USSR	1020	9 14	17 25 34.0	20 49 42	-13 24				845009
10661	SHIRAZ, IRAN	9008	9 14	17 27 08.09	22 58 18	29 46				434013
53546	TASHKENT, USSR	1075	9 14	17 27 10.6	17 22 30	-4 54				845009
53547	TASHKENT, USSR	1075	9 14	17 28 26.9	17 57 00	-10 54				845009
53548	TASHKENT, USSR	1075	9 14	17 28 37.7	18 01 30	-11 48				845009
52311	MEUDON, FRANCE	2715	9 14	19 14 52.0			277 19	27 48		637109
56116	SONNEBERG, GER.	2730	9 14	19 17 18.4	15 35 30	9 54				834049
56220	POTSDAM, GER.	2729	9 14	19 17 39.7	15 54 54	5 24				834049
52012	MEUDON, FRANCE	2715	9 14	19 18 08.5			229 29	46 00		637109
53685	BRNO, CZECH.	2720	9 14	19 18 24.5	15 45 36	8 18				739041
52013	MEUDON, FRANCE	2715	9 14	19 19 03.9			211 22	47 38		637109
52014	MEUDON, FRANCE	2715	9 14	19 20 02.3			192 37	45 30		637109
55799	EILTENBURG, GER.	2732	9 14	19 20 12.1	17 27 30	-1 24				834009
56421	POTSDAM, GER.	2729	9 14	19 21 08.0	18 03 48	-6 28				834049
52015	MEUDON, FRANCE	2715	9 14	19 21 14.6			174 07	40 01		637109
52016	MEUDON, FRANCE	2715	9 14	19 22 01.7			165 28	35 20		637109
55800	EILTENBURG, GER.	2732	9 14	19 22 26.4	18 54 54	-10 48				834009
52017	MEUDON, FRANCE	2715	9 14	19 23 00.4			157 26	29 30		637109
56117	SONNEBERG, GER.	2730	9 14	19 24 06.0	19 55 42	-15 48				834049
52018	MEUDON, FRANCE	2715	9 14	19 24 12.0			150 49	22 59		637109
53686	BRNO, CZECH.	2720	9 14	19 24 16.3	19 23 30	-15 06				737042
53563	LVOV, USSR	1031	9 14	19 24 38.4	18 50 00	-16 06				845009
52153	UJGOROD, USSR	1055	9 14	19 25 18.5	19 18 00	-18 14				845009

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53566	LYOV, USSR	1031	9 14	19 26 06.6	19 33 30	-21 34				845009
53567	POISDAM, GER.	2729	9 14	19 26 33.2	19 34 48	-23 45				845010
53568	LYOV, USSR	1031	9 14	19 27 04.2	19 36 33	-23 03				845011
53569	SAN FERNANDO, PH. IS.	7004	9 14	19 24 30.00	18 48 36	0 05				845012
53570	SACRAMENTO, CAL.	8517	9 14	19 34 27.0			0 00	54 51		845013
53571	ROCHESTER, N.Y.	8564	9 14	19 34 48	17 46	24				845014
53572	SACRAMENTO, CAL.	8517	9 15	1 06 27.4			0 00	48 10		845015
53573	N. CANTON, OHIO	8536	9 15	1 13 38.3	19 36 15	31 48				845016
53574	STATE COLLEGE, PA.	0060	9 15	1 14 12.2			269 36	45 06		845017
53575	STATE COLLEGE, PA.	0060	9 15	1 14 16.1			268 42	45 17		845018
53576	TERRE HAUTE, IND.	8127	9 15	1 15 05.4			180	64 30		845019
53577	FT. BELVOIR, VA.	0077	9 15	1 15 16.8			268 54	52 30		845020
53578	N. CANTON, OHIO	0075	9 15	1 17 13	19 36	8 12				845021
53579	ROANOKE, VA.	0074	9 15	1 17 40	19 36 30	28				845022
53580	FT. BELVOIR, VA.	0077	9 15	1 18 20.6			180 00	59		845023
53581	WESTPORT, MAINE	9021	9 15	1 21 23	19 47 30	-16 48				845024
53582	JUPITER, FLA.	9016	9 15	1 21 26.38	19 36 18	16 18				845025
53583	ROCHESTER, N.Y.	8564	9 15	1 22 00.7	18 45 48	-23 06				845026
53584	N. CANTON, OHIO	8544	9 15	1 21 53.5	18 36 48	-23 08				845027
53585	JUPITER, FLA.	9016	9 15	1 21 54.38	19 36 30	16 00				845028
53586	N. CANTON, OHIO	8565	9 15	1 21 55.3	19 36 30	-23 42				845029
53587	OLIFANT, S. AFR.	7001	9 15	1 25 34.2	18 06 36	-54 42				845030
53588	PORTLAND, ORE.	0076	9 15	3 08 40.6	19 17 00	32 06				845031
53589	SACRAMENTO, CAL.	8517	9 15	3 44 32.6			0 00	70 34		845032
53590	SAN NITO, CAL.	0113	9 15	3 46 30.2	18 36 52	60 09				845033
53591	SPOKANE, WASH.	8142	9 15	3 42 27.3	18 47 32	5 43				845034
53592	PORTLAND, ORE.	0076	9 15	3 43 02.6	19 17 00	10 48				845035
53593	CHINA, CAL.	0098	9 15	3 43 03.7			0 00	73 02 24		845036
53594	SAN DIEGO, CAL.	0133	9 15	3 44 49.8	18 02 36	48 36				845037
53595	ALPINE, CAL.	0089	9 15	3 46 30.6	18 39 30	11 36				845038
53596	TERRE HAUTE, IND.	8127	9 15	3 49 12.2			262 45	27 15		845039
53597	ALPINE, CAL.	0089	9 15	3 49 36.6	18 03 00	0 51				845040
53598	SPOKANE, WASH.	8142	9 15	3 49 40.5			157 48	10 24		845041
53599	SAN DIEGO, CAL.	0133	9 15	3 49 40.5	18 07	0 42				845042
53600	PORTLAND, ORE.	0076	9 15	3 49 40.5	18 32 00	-6 54				845043
53601	SPOKANE, WASH.	8142	9 15	3 49 40.5			266 54	9 06		845044
53602	SPOKANE, WASH.	8142	9 15	3 49 40.5			266 12	12 48		845045
53603	SACRAMENTO, CAL.	8517	9 15	3 49 40.5	17 40 48	4 27				845046
53604	ALPINE, CAL.	0089	9 15	3 49 40.5	18 03 00	12 48				845047
53605	SACRAMENTO, CAL.	8517	9 15	3 49 40.5	18 03 00	-22 05				845048
53606	SPOKANE, WASH.	8142	9 15	3 49 40.5			266 12	14 00		845049
53607	SACRAMENTO, CAL.	8517	9 15	3 49 40.5	17 40 48	-12 15				845050
53608	ALPINE, CAL.	0089	9 15	3 49 40.5	18 03 00	12 48				845051
53609	SACRAMENTO, CAL.	8517	9 15	3 49 40.5	18 03 00	-22 05				845052
53610	ALPINE, CAL.	0089	9 15	3 49 40.5	18 03 00	12 48				845053
53611	MAUI, HAWAII	7012	9 15	7 15 44.76	18 30 36	51 47				845054
53612	SAN JUAN, AM.	6012	9 15	7 25 30	17 08	-78 30				845055
53613	VLADIVOSTOK, USSR	1013	9 15	11 25 17.7	17 48 12	16 06				845056
53614	VLADIVOSTOK, USSR	1013	9 15	11 25 17.7	17 48 12	16 06				845057
53615	MUSASHINO, JAPAN	0033	9 15	11 25 17.7	17 48 12	16 06				845058
53616	TOKYO, JAPAN	0033	9 15	11 25 17.7	17 48 12	16 06				845059
53617	NAOSHIMA, JAPAN	0018	9 15	11 25 17.7	17 48 12	16 06				845060
53618	NAOSHIMA, JAPAN	0018	9 15	11 25 17.7	17 48 12	16 06				845061
53619	YATSUBI, JAPAN	0072	9 15	11 25 17.7	17 48 12	16 06				845062
53620	TASHKENT, USSR	1075	9 15	17 00 17.0	18 01 00	30 12				845063
53621	TASHKENT, USSR	1075	9 15	17 00 17.0	18 01 00	30 12				845064
53622	DNEPRPETROVSK, USSR	1017	9 15	17 00 17.0	18 01 00	30 12				845065
53623	CHARKOV, USSR	1050	9 15	17 00 17.0	18 01 00	30 12				845066
53624	NIROLAEV, USSR	1077	9 15	17 00 17.0	18 01 00	30 12				845067
53625	ERIVAN, USSR	1016	9 15	17 00 17.0	18 01 00	30 12				845068
53626	NIROLAEV, USSR	1077	9 15	17 00 17.0	18 01 00	30 12				845069
53627	ERIVAN, USSR	1016	9 15	17 00 17.0	18 01 00	30 12				845070
53628	NIROLAEV, USSR	1077	9 15	17 00 17.0	18 01 00	30 12				845071
53629	ERIVAN, USSR	1016	9 15	17 00 17.0	18 01 00	30 12				845072
53630	CHARKOV, USSR	1050	9 15	17 00 17.0	18 01 00	30 12				845073
53631	CHARKOV, USSR	1050	9 15	17 00 17.0	18 01 00	30 12				845074
53632	ERIVAN, USSR	1016	9 15	17 00 17.0	18 01 00	30 12				845075
53633	DNEPRPETROVSK, USSR	1017	9 15	17 00 17.0	18 01 00	30 12				845076
53634	ERIVAN, USSR	1016	9 15	17 00 17.0	18 01 00	30 12				845077
53635	CHARKOV, USSR	1050	9 15	17 00 17.0	18 01 00	30 12				845078
53636	CHARKOV, USSR	1050	9 15	17 00 17.0	18 01 00	30 12				845079
53637	ERIVAN, USSR	1016	9 15	17 00 17.0	18 01 00	30 12				845080
53638	CHARKOV, USSR	1050	9 15	17 00 17.0	18 01 00	30 12				845081
53639	CHARKOV, USSR	1050	9 15	17 00 17.0	18 01 00	30 12				845082
53640	CHARKOV, USSR	1050	9 15	17 00 17.0	18 01 00	30 12				845083
53641	CHARKOV, USSR	1050	9 15	17 00 17.0	18 01 00	30 12				845084
53642	CHARKOV, USSR	1050	9 15	17 00 17.0	18 01 00	30 12				845085
53643	CHARKOV, USSR	1050	9 15	17 00 17.0	18 01 00	30 12				845086
53644	CHARKOV, USSR	1050	9 15	17 00 17.0	18 01 00	30 12				845087
53645	CHARKOV, USSR	1050	9 15	17 00 17.0	18 01 00	30 12				845088
53646	CHARKOV, USSR	1050	9 15	17 00 17.0	18 01 00	30 12				845089
53647	CHARKOV, USSR	1050	9 15	17 00 17.0	18 01 00	30 12				845090
53648	CHARKOV, USSR	1050	9 15	17 00 17.0	18 01 00	30 12				845091
53649	CHARKOV, USSR	1050	9 15	17 00 17.0	18 01 00	30 12				845092
53650	CHARKOV, USSR	1050	9 15	17 00 17.0	18 01 00	30 12				845093
53651	CHARKOV, USSR	1050	9 15	17 00 17.0	18 01 00	30 12				845094
53652	CHARKOV, USSR	1050	9 15	17 00 17.0	18 01 00	30 12				845095
53653	CHARKOV, USSR	1050	9 15	17 00 17.0	18 01 00	30 12				845096
53654	CHARKOV, USSR	1050	9 15	17 00 17.0	18 01 00	30 12				845097
53655	CHARKOV, USSR	1050	9 15	17 00 17.0	18 01 00	30 12				845098
53656	CHARKOV, USSR	1050	9 15	17 00 17.0	18 01 00	30 12				845099
53657	CHARKOV, USSR	1050	9 15	17 00 17.0	18 01 00	30 12				845100
53658	CHARKOV, USSR	1050	9 15	17 00 17.0	18 01 00	30 12				845101
53659	CHARKOV, USSR	1050	9 15	17 00 17.0	18 01 00	30 12				845102
53660	CHARKOV, USSR	1050	9 15	17 00 17.0	18 01 00	30 12				845103
53661	CHARKOV, USSR	1050	9 15	17 00 17.0	18 01 00	30 12				845104
53662	CHARKOV, USSR	1050	9 15	17 00 17.0	18 01 00	30 12				845105
53663	CHARKOV, USSR	1050	9 15	17 00 17.0	18 01 00	30 12				845106
53664	CHARKOV, USSR	1050	9 15	17 00 17.0	18 01 00	30 12				845107
53665	CHARKOV, USSR	1050	9 15	17 00 17.0	18 01 00	30 12				845108
53666	CHARKOV, USSR	1050	9 15	17 00 17.0	18 01 00	30 12				845109
53667	CHARKOV, USSR	1050	9 15	17 00 17.0	18 01 00	30 12				845110
53668	CHARKOV, USSR	1050	9 15	17 00 17.0	18 01 00	30 12				845111
53669	CHARKOV, USSR	1050	9 15	17 00 17.0	18 01 00	30 12				845112
53670	CHARKOV, USSR	1050	9 15	17 00 17.0	18 01 00	30 12				845113
53671	CHARKOV, USSR	1050	9 15	17 00 17.0	18 01 00	30 12				845114
53672	CHARKOV, USSR	1050	9 15	17 00 17.0	18 01 00	30 12				845115
53673	CHARKOV, USSR	1050	9 15	17 00 17.0	18 01 00	30 12				845116
53674	CHARKOV, USSR	1050	9 15	17 00 17.0	18 01 00	30 12				845117
53675	CHARKOV, USSR	1050	9 15	17 00 17.0	18 01 00	30 12				845118
53676	CHARKOV, USSR	1050	9 15	17 00 17.0	18 01 00	30 12				845119
53677	CHARKOV, USSR	1050	9 15	17 00 17.0	18 01 00	30 12				845120
53678	CHARKOV, USSR	1050	9 15	17 00 17.0	18 01 00	30 12				845121
53679	CHARKOV, USSR	1050	9 15	17 00 17.0	18 01 00	30 12				845122
53680	CHARKOV, USSR	1050	9 15	17 00 17.0	18 01 00	30 12				845123
53681	CHARKOV, USSR	1050	9 15	17 00 17.0	18 01 00	30 12				845124
53682	CHARKOV, USSR	1050	9 15	17 00 17.0	18 01 00	30 12				845125
53683	CHARKOV, USSR	1050	9 15	17 00 17.0	18 01 00	30 12				845126
53684	CHARKOV, USSR	1050								

OBS NO	STATION	STA NO	DATE	TIME	W. A.	DEGL.	AZIMUTH	ALTITUDE	RANGE	ENUGA
33395	BOCHUM, GERM.	8599	9 15	18 58 08.5	17 45 19	1 06				845002
55808	POTSDAM	2729	9 15	18 57 06.4	17 45 16	- 4 50				845004
52128	EL GULLA, ALG.	6411	9 15	18 57 30.0			13 36	52 36		845009
33363	HANOVER, GERM.	0702	9 15	18 57 31.5			203 58 12	51 18 12		845102
33455	BERLIN, GERM.	0700	9 15	18 57 33.8			229 00	28 24		845303
52194	UJGOROD, USSR	1055	9 15	18 58 16.8	17 47 30	- 4 24				845009
33456	BERLIN, GERM.	0700	9 15	18 58 19.1			216 24	28 48		845302
55801	EILENBURG, GERM.	2732	9 15	18 58 21.7	18 03 30	- 6 00				845007
55809	POTSDAM	2729	9 15	18 58 26.2	18 06 18	- 7 16				845007
52200	RIGA, USSR	1040	9 15	18 58 29.1	17 42 00	-13 24				845007
52129	EL GULLA, ALG.	6411	9 15	18 58 30.0			36 36	52 18		845307
52154	LVOV, USSR	1031	9 15	18 58 42.3	17 03 00	- 3 30				845007
33457	BERLIN, GERM.	0700	9 15	18 59 11.0			207 06	28 06		845302
55802	EILENBURG, GERM.	2732	9 15	18 59 16.7	18 38 18	- 9 12				845007
55810	POTSDAM	2729	9 15	18 59 20.4	18 38 34	-10 49				845007
52130	EL GULLA, ALG.	6411	9 15	18 59 30.0			59 42	49 24		845309
52155	LVOV, USSR	1031	9 15	19 00 12.0	17 56 06	-20 00				845009
52195	UJGOROD, USSR	1055	9 15	19 00 49.1	18 22 06	-15 24				845007
56119	SONNEBERG, GERM.	2736	9 15	19 00 54.2	18 43 46	-14 42				845007
55811	POTSDAM	2729	9 15	19 02 34.3	18 43 36	-21 40				845007
33364	HANOVER, GERM.	0702	9 15	19 03 18.1			158 30 24	61 49 48		845106
55812	POTSDAM	2729	9 15	19 03 20.1	20 34 00	-23 43				845007
55813	POTSDAM	2729	9 15	19 04 49.0	21 64 36	-27 24				845007
10065	WOOMERABUN, AUSTR.	9003	9 15	19 43 12.8	26 43 48	-53 26				845012
33458	QUEZON CITY, PHILS.	6500	9 15	21 08 35			510	18 48		845302
34198	SACRAMENTO, CAL.	8517	9 15	22 38 14.1			0 00	61 36		845304
34199	SACRAMENTO, CAL.	8517	9 16	0 43 14.7			0 00	42 49		845304
33459	CHICAGO, ILL.	0020	9 16	0 51 13			212 00 00	78 00 00		845302
33442	TERRE HAUTE, IND.	8127	9 16	0 51 44.8			186	87 15		845303
33460	CHICAGO, ILL.	0020	9 16	0 53 28			140 00 00	55 00 00		845302
52727	WESTFIELD, MASS.	5021	9 16	0 59 26	22 43 36	-22 14				845308
10667	JUPITER, FLA.	9010	9 16	0 59 32.86	23 33 12	8 35				845013
10668	JUPITER, FLA.	9010	9 16	0 59 40.86	23 05 00	7 34				845013
10664	OLIFANTSPRINT, S. AF.	9002	9 16	1 34 19.30	20 12 34	-57 50				845013
33462	SAN DIEGO, CAL.	0032	9 16	2 46 21.1	14 50	56 48				845042
33467	MILWAUKEE, WISC.	0074	9 16	2 47 57.3			180	9 30		845304
34200	SACRAMENTO, CAL.	8517	9 16	2 48 33.6			0 00	75 34		845304
33471	VAN NUTS, CAL.	0113	9 16	2 49 29.3			0 49 48	60 00		845303
33472	CHINA LAKE, CAL.	0098	9 16	2 49 43.1			0 00	68 47 40		845303
33468	MILWAUKEE, WISC.	0074	9 16	2 50 30.0			165 04	67 30		845304
33473	PUEBLA, MEX.	0900	9 16	2 50 35.2	13 30 00	57 16				845043
33469	MILWAUKEE, WISC.	0074	9 16	2 51 37.7			157 00	60 34		845304
33463	SAN DIEGO, CAL.	0032	9 16	2 52 22.5	14 58	58 16				845046
33475	DENVER, COLO.	0082	9 16	2 52 44.5			155 15 00	60 00		845303
33470	MILWAUKEE, WISC.	0074	9 16	2 52 45.5			146 48	23 30		845304
33474	PUEBLA, MEX.	0900	9 16	2 55 19.8	18 18 48	65 12				845304
33476	FT. WORTH, TEX.	0139	9 16	2 55 10.2	18 55 00	24 15				845303
33461	CHICAGO, ILL.	0020	9 16	2 57 42			152 00 00	12 00 00		845302
33464	SAN DIEGO, CAL.	0032	9 16	2 57 47.7	15 43	- 4 42				845042
33477	FT. WORTH, TEX.	0139	9 16	2 57 57.7	20 01 00	- 3 36				845013
34201	SACRAMENTO, CAL.	8517	9 16	4 53 28.9	18 45 18	- 4 31				845013
34202	SACRAMENTO, CAL.	8517	9 16	4 54 34.4	18 48 24	-12 16				845013
33452	SAN JUAN, ARG.	0814	9 15	9 38 04.3	9 16 30	-71 16				845001
34226	YAKUAI, JAPAN	0158	9 16	10 43 17	16 04	39 09				845302
10708	YOKUJEN, JAPAN	9005	9 16	10 44 41.70	17 57 48	21 39				845013
34017	MITAKA, JAPAN	0229	9 16	10 46 10.1			126 46	62 47		845302
34018	MITAKA, JAPAN	0229	9 16	10 47 14.1			129 46	61 42		845302
34019	MITAKA, JAPAN	0229	9 16	10 48 33.6			129 46	49 42		845302
34023	MUSASHINO, JAPAN	0233	9 16	10 49 31.8			123	62 30		845302
34021	MITAKA, JAPAN	0229	9 16	10 50 36			126 48	62 42		845302
34022	ASAHIKAWA, JAPAN	0231	9 16	10 50 41.9	16 40	24				845302
34028	YAKUAI, JAPAN	0158	9 16	11 46 34			125	43 46		845302
52147	STALINABAD, USSR	1068	9 16	14 36 04.4	14 43 30	41 48				845007
52162	TASHKENT, USSR	1075	9 16	14 36 31.8	15 11 00	33 36				845007
52178	STALINABAD, USSR	1068	9 16	14 38 50.7	17 47 14	36 40				845007
52163	TASHKENT, USSR	1075	9 16	14 41 05.7	17 49 18	37 36				845007
52179	STALINABAD, USSR	1068	9 16	14 41 46.3	20 29 34	11 06				845007
10682	MAINI, INDIA	9006	9 16	14 42 08.26	17 52 00	45 40				845013
52164	TASHKENT, USSR	1075	9 16	14 45 11.4	21 48 00	-35 33				845007
52159	TIBET, CHINA	1053	9 16	16 34 32.6	17 41 42	26 36				845007
52170	ONEPHOTHROVSK, USSR	1017	9 16	16 35 17.2	18 43	16 60				845007
52168	KRASNOYARSK, USSR	1027	9 16	16 35 22.0	18 48	16 60				845007
52175	EREVAN, USSR	1018	9 16	16 37 15.1	18 47 00	24 48				845007
52169	KRASNOYARSK, USSR	1027	9 16	16 38 42.1	19 14 36	- 6 16				845007
52171	ONEPHOTHROVSK, USSR	1017	9 16	16 38 44.9	19 14	- 6 34				845007
52176	EREVAN, USSR	1018	9 16	16 39 06.4	18 38 48	12 12				845007
52160	ROSTOV, USSR	1041	9 16	16 39 12.8	19 42 09	2 33				845007
52161	ROSTOV, USSR	1041	9 16	16 39 35.9	20 42 00	13 42				845007
52165	TASHKENT, USSR	1075	9 16	16 40 23.0	18 39 00	16 48				845007
52180	STALINABAD, USSR	1068	9 16	16 41 22.1	18 52 46	0 06				845007
10690	SHIRAZ, IRAN	9008	9 16	16 41 26.4	18 17 36	35 45				845013
52166	TASHKENT, USSR	1075	9 16	16 42 47.76	17 48 30	-12 14				845007
52167	TASHKENT, USSR	1075	9 16	16 44 51.7	18 45 00	-22 42				845007
10673	WOOMERABUN, AUSTR.	9003	9 16	17 18 21.2	21 40 06	-77 13				845013
56023	POTSDAM, GERM.	2729	9 16	18 29 18.2	17 42 30	20 01				845007
52135	EL GULLA, ALG.	6411	9 16	18 32 30.0			441 12	38 30		845303
33365	HANOVER, GERM.	0702	9 16	18 32 42.4			159 16 12	33 13 12		845302
52136	EL GULLA, ALG.	6411	9 16	18 33 30.3			353 18	44 44		845303
52137	EL GULLA, ALG.	6411	9 16	18 34 30.3			11 00	49 36		845303
56024	POTSDAM, GERM.	2729	9 16	18 35 04.1	17 50 30	- 5 55				845007
55814	EILENBURG, GERM.	2732	9 16	18 35 17.7	17 57 06	- 5 06				845007
52138	EL GULLA, ALG.	6411	9 16	18 35 30.0			32 24	50 18		845309
52139	EL GULLA, ALG.	6411	9 16	18 36 30.0			32 36	47 06		845309
55815	EILENBURG, GERM.	2732	9 16	18 36 33.7	18 44 00	-10 00				845007

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52140	EL GULEA, ALG.	6411	9 16	18 37 30.0			68 54	42 00		845309
55816	EILENBURG, GER.	2732	9 16	18 37 36.0	19 19 26	-25 06				834009
52141	EL GULEA, ALG.	6411	9 16	18 38 30.0			79 48	95 18		845309
52142	EL GULEA, ALG.	6411	9 16	18 39 30.0			87 06	29 06		845309
52172	UGOROD, USSR	1055	9 16	18 39 33.6	19 16 00	-18 48				845009
52173	EREVAN, USSR	1018	9 16	18 39 43.1	16 51 42	-4 12				845009
52143	EL GULEA, ALG.	6411	9 16	18 40 30.0			92 36	23 54		845309
56025	POTS DAM, GER.	2729	9 16	18 41 04.2	20 43 54	-25 16				834049
52144	EL GULEA, ALG.	6411	9 16	18 41 30.0			96 42	18 54		845309
52174	EREVAN, USSR	1018	9 16	18 41 33.4	17 38 18	-12 42				845009
52145	EL GULEA, ALG.	6411	9 16	18 42 30.0			100 00	14 18		845309
33478	QUEZON CITY, PH. IS.	0500	9 16	18 43 21			12	14		845302
10674	WOOMERA, BN. AUSTR.	9003	9 16	19 26 57.72	9 28 24	-73 11				434023
52146	MEUDON, FRANCE	2715	9 16	20 33 49.60			246 26	17 12		637109
52147	MEUDON, FRANCE	2715	9 16	20 34 14.60			242 57	17 44		637109
52148	MEUDON, FRANCE	2715	9 16	20 35 00.10			236 25	18 29		637109
52149	MEUDON, FRANCE	2715	9 16	20 36 05.30			226 45	18 42		637109
52150	MEUDON, FRANCE	2715	9 16	20 37 29.30			214 39	17 38		637109
10678	SAN FERNANDO, BN. SP.	9004	9 16	20 37 31.10	18 26 24	5 52				434013
52151	MEUDON, FRANCE	2715	9 16	20 38 08.80			209 15	16 42		637109
33479	QUEZON CITY, PH. IS.	0500	9 16	20 45 10			325	21		845302
33480	QUEZON CITY, PH. IS.	0500	9 16	20 47 10			329	32		845302
33481	QUEZON CITY, PH. IS.	0500	9 16	20 48 15			333	41 12		845302
34203	SACRAMENTO, CAL.	8517	9 16	22 14 54.1			0 00	64 16		641304
34204	SACRAMENTO, CAL.	8517	9 17	0 19 58.0			0 00	47 35		641304
33482	TERRE HAUTE, IND.	8127	9 17	0 28 19.4			0	87		845302
33483	TERRE HAUTE, IND.	8127	9 17	0 31 19.3			116 45	47		845303
33487	ROCHESTER, N.Y.	8564	9 17	0 31 40.4	19 16 36	0 48				845034
33488	ROCHESTER, N.Y.	8564	9 17	0 31 42.6	19 18 12	0 30				845033
10693	CURACAO, BN. N.W.I.	9009	9 17	0 37 16.41	22 39 06	54 12				434013
10671	ELIFANTEN, BN. S. AF	9002	9 17	1 13 03.30	20 19 00	-80 35				434023
34205	SACRAMENTO, CAL.	8517	9 17	2 25 10.6			0 00	71 39		641304
33489	CHINA LAKE, CAL.	8588	9 17	2 26 18.0			0 00	65 01 12		845305
33492	WICHITA, KAN.	0028	9 17	2 30 52.2	18 04 16	9 12				845043
33493	FT. WORTH, TEX.	0139	9 17	2 32 02.0	19 19 00	19 48				845013
33494	FT. WORTH, TEX.	0139	9 17	2 33 08.8	19 43 00	7 24				845013
33495	PUEBLA, MEX.	0900	9 17	2 33 10.8	20 21 30	60 56				845043
33498	SAN ANTONIO, TEX.	0089	9 17	2 33 41	20 36	14 25				845042
33496	PUEBLA, MEX.	0900	9 17	2 34 55.0	21 56 30	41 36				845043
10695	JUPITER, BN. FLA.	9010	9 17	2 35 48.54	17 59 00	1 27				434013
33497	PUEBLA, MEX.	0900	9 17	2 35 49.7	22 28 12	29 08				845043
10696	JUPITER, BN. FLA.	9010	9 17	2 36 02.54	18 07 42	1 30				434013
34206	SACRAMENTO, CAL.	8517	9 17	4 29 40.5	17 42 12	0 57				641013
33499	PORTLAND, ORE.	0076	9 17	4 30 57	19 06 00	-20 36				845042
34207	SACRAMENTO, CAL.	8517	9 17	4 32 17.0	19 25 54	-16 39				641013
34208	SACRAMENTO, CAL.	8517	9 17	4 33 52.7	20 23 18	-24 45				641043
10702	MAUI, BN. HAWAII	9012	9 17	6 32 20.00	22 02 12	21 18				434013
10697	VILLA LUCRES, BN. ARG	9011	9 17	7 05 34.92	22 07 12	-69 55				434023
33500	ANTOFAGASTA, CHILE	0604	9 17	7 09 31.13	10 41	-69 36				845002
10698	VILLA LUCRES, BN. ARG	9011	9 17	7 11 33.94	8 41 00	-60 43				434023
33501	ANTOFAGASTA, CHILE	0604	9 17	9 12 34.1	13 07	-84 30				845002
10699	VILLA LUCRES, BN. ARG	9011	9 17	9 13 22.97	5 08 00	-74 23				434023
34530	ASAHIMAWA, JAPAN	0201	9 17	10 19 16	13 57	18 48				845002
34533	MIYAZAKI, JAPAN	0230	9 17	10 19 49.0	16 19	61 00				845002
34531	ONAGI, JAPAN	0224	9 17	10 21 55.0	19 02	36 00				845002
34532	YOKKAICHI, JAPAN	0256	9 17	10 28 25	22 16	-18				845002
52204	VLADIVOSTOK, USSR	1013	9 17	11 17 20.9	15 06 06	26 54				845009
52205	VLADIVOSTOK, USSR	1013	9 17	11 21 01.8	18 36 48	8 48				845009
34534	AGOSHIMA, JAPAN	0218	9 17	12 26 55	18 36	-14 30				845002
52210	TASHKENT, USSR	1075	9 17	14 18 01.2	19 50 30	8 12				845009
52211	TASHKENT, USSR	1075	9 17	14 20 57.8	21 00 00	-10 00				845009
52208	EREVAN, USSR	1018	9 17	16 13 22.7	25 59 00	30 00				845009
52209	EREVAN, USSR	1018	9 17	16 16 25.5	19 03 12	9 48				845009
52215	STALINABAD, USSR	1068	9 17	16 17 11.2	16 11 12	5 18				845009
10691	SHIRAZ, BN. IRAN	9008	9 17	16 17 38.73	17 46 06	40 40				434013
52212	TASHKENT, USSR	1075	9 17	16 18 09.2	16 53 30	-4 24				845009
52216	STALINABAD, USSR	1068	9 17	16 21 30.4	18 29 24	-18 24				845009
52213	TASHKENT, USSR	1075	9 17	16 22 12.5	18 55 30	-25 12				845009
52217	STALINABAD, USSR	1068	9 17	16 22 17.1	18 54 36	-22 42				845005
10683	NAINI TAL, BN. INDIA	9006	9 17	16 22 37.81	17 17 06	-5 13				434013
52218	STALINABAD, USSR	1068	9 17	16 22 53.9	19 12 30	-25 54				845009
52214	TASHKENT, USSR	1075	9 17	16 23 00.4	19 17 00	-28 54				845009
10675	WOOMERA, BN. AUSTR.	9003	9 17	16 56 03.06	3 25 12	-80 50				434023
56026	POTS DAM, GER.	2729	9 17	18 09 06.9	15 42 24	5 29				834049
56027	POTS DAM, GER.	2729	9 17	18 11 02.6	17 03 06	-1 18				834049
56028	POTS DAM, GER.	2729	9 17	18 13 02.3	18 22 06	-9 37				834049
56026	EREVAN, USSR	1018	9 17	18 14 49.2	15 54 14	3 30				845009
52207	EREVAN, USSR	1018	9 17	18 17 05.9	16 53 00	-6 06				845009
10676	WOOMERA, BN. AUSTR.	9003	9 17	18 57 34.81	21 38 48	-61 17				434023
10679	SAN FERNANDO, BN. SP.	9004	9 17	20 14 09.90	18 16 30	9 03				434013
34209	SACRAMENTO, CAL.	8517	9 17	21 51 28.4			0 00	66 54		641304
34210	SACRAMENTO, CAL.	8517	9 17	23 56 36.5			0 00	47 26		641304
10694	CURACAO, BN. N.W.I.	9009	9 18	0 14 37.30	22 57 36	47 36				434013
34211	SACRAMENTO, CAL.	8517	9 18	2 01 43.5			0 00	68 28		641304
33502	DENVER, COLO.	8582	9 18	2 06 48.0			177 36	62 36		845303
33503	St. LOUIS, MO.	0140	9 18	2 07 17.4	16 41 12	8 51				845032
33504	KANSAS CITY, MO.	0036	9 18	2 07 39.8			227	47 18		845302
33506	PUEBLA, MEX.	0900	9 18	2 07 59.7	17 08 06	73 00				845043
33509	DAYTON, OHIO	8557	9 18	2 08 48.6			237 12	28 54		845303
33510	BILOXI, MISS.	0090	9 18	2 09 07			270	50 24		845302
33507	PUEBLA, MEX.	0900	9 18	2 10 45.2	21 58 12	43 55				845043
33511	BILOXI, MISS.	0090	9 18	2 12 56			180	48 48		845302
33505	KANSAS CITY, MO.	0036	9 18	2 14 09.6			157	17 18		845302

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10670	OLIFANTSENTIN'BN, S. AF	9002	9 18	3 00 40.73	50 20 06	-60 09				434023
33512	SAN ANTONIO, TEX.	0089	9 18	3 07 34	17 49	-47 00				845042
33513	SAN ANTONIO, TEX.	0089	9 18	3 10 30	20 27	15 12				845042
33465	SAN DIEGO, CAL.	0133	9 18	4 08 25.1	17 58	-4 06				845042
34212	SACRAMENTO, CAL.	8517	9 18	4 08 43.6	19 10 48	-13 36				641013
34213	SACRAMENTO, CAL.	8517	9 18	4 10 05.6	19 37 48	-21 24				641013
33508	PUEBLA, MEX.	0900	9 18	4 10 37.3	16 20 00	19 23				845043
33490	CHINA LAKE, CAL.	8588	9 18	4 11 25.8			180 33 00	30 36 36		845303
33466	SAN DIEGO, CAL.	0133	9 18	4 12 13.6	23 28	-23 30				845042
10700	VILLA COLORES'BN, ARG	9011	9 18	5 49 16.35	8 37 54	-53 27				434023
10701	VILLA COLORES'BN, ARG	9011	9 18	8 52 00.74	9 00 12	-69 17				434023
33453	SAN JUAN, ARG.	0812	9 18	6 57 52.7	10 09 48	-22 13				845002
34036	KAGOSHIMA, JAPAN	0218	9 18	9 55 45	14 10	64 00				845002
52219	VLADIVOSTOK, USSR	1013	9 18	9 58 14.2	18 56 00	7 06				845009
34035	KANAYA MACHI, JAPAN	0220	9 18	9 58 49	18 40	39 30				845002
52220	VLADIVOSTOK, USSR	1013	9 18	9 58 55.6	19 26 30	2 18				845009
34037	YOKKAICHI, JAPAN	0258	9 18	10 00 06			136 00	74 30		845302
34038	KAGOSHIMA, JAPAN	0218	9 18	12 04 32	19 07 30	-24 00				845002
10664	NAINI TAL'BN, INDIA	9006	9 18	13 52 10.21	19 35 06	53 15				434013
52229	EREVAN, USSR	1018	9 18	15 50 42.2	16 38 42	30 42				845009
52230	EREVAN, USSR	1018	9 18	15 53 48.9	19 33 42	5 54				845009
52232	TASHKENT, USSR	1075	9 18	15 54 12.8	16 20 00	-0 18				845009
52247	STALINABAD, USSR	1068	9 18	15 54 49.1	16 28 48	2 06				845009
10592	SHIRAZ'BN, IRAN	9008	9 18	15 55 12.71	28 51 18	36 21				434013
52258	STALINABAD, USSR	1068	9 18	15 56 16.2	17 16 12	-6 12				845009
52224	TASHKENT, USSR	1075	9 18	15 56 45.6	17 41 00	-43 42				845009
52239	STALINABAD, USSR	1068	9 18	15 58 02.6	18 15 30	-16 54				845009
52244	TASHKENT, USSR	1075	9 18	15 58 14.3	18 28 30	-21 30				845009
52250	STALINABAD, USSR	1068	9 18	15 59 09.2	18 53 18	-23 18				845009
10685	NAINI TAL'BN, INDIA	9006	9 18	16 00 20.48	17 48 30	-11 00				434013
52226	TASHKENT, USSR	1075	9 18	16 01 02.4	19 44 00	-33 36				845009
52222	KIEV, USSR	1070	9 18	17 49 08.2	16 37 18	-6 06				845009
52221	KIEV, USSR	1070	9 18	17 49 22.6	16 12 24	-3 00				845009
52227	EREVAN, USSR	1018	9 18	17 55 44.3	17 34 54	-15 12				845009
52228	EREVAN, USSR	1018	9 18	17 57 36.6	18 27 36	-24 54				845009
10677	DOOMERATH, AUSTR.	9003	9 18	18 38 10.10	7 17 00	-86 14				434023
10680	SAN FERNANDO'BN, SP.	9004	9 18	19 51 12.70	18 32 30	8 10				434013
33514	SACRAMENTO, CAL.	8517	9 18	21 27 56.8			0 00	69 49		641304
33515	SACRAMENTO, CAL.	8517	9 18	21 33 05.9			0 00	47 24		641304
33454	TERRE HAUTE, IND.	8127	9 18	23 41 19.4			0 00	78 30		642303
33519	N. CANTON, CHIL.	8536	9 18	23 42 58.7	16 07	29 42				641004
33520	N. CANTON, CHIL.	8536	9 18	23 43 06.3	16 16	27 48				641004
10723	LUPACAL'BN, N.W. I.	9009	9 18	23 50 42.42	24 48 30	52 58				434013
33516	SACRAMENTO, CAL.	8517	9 19	1 38 11.5			0 00	55 35		641304
33521	SAN ANTONIO, TEX.	0089	9 19	1 40 51	13 41	51 00				845042
33522	DENVER, COLO.	8582	9 19	1 43 03.0			180 00	68 36		845303
33456	TERRE HAUTE, IND.	8127	9 19	1 43 54.6			249 30	33 45		845303
33523	ST. LOUIS, MO.	0140	9 19	1 44 48.7	16 57 12	8 00				845034
33524	NEW ORLEANS, LA.	0030	9 19	1 46 08			270 00	64 00		845303
33455	TERRE HAUTE, IND.	8127	9 19	1 48 24.0			191	49 49		845303
33525	PUEBLA, MEX.	0900	9 19	1 48 45.1	24 19 30	37 32				845043
33545	PUEBLA, MEX.	0900	9 19	1 49 23.9	24 34 18	30 00				845043
10672	OLIFANTSENTIN'BN, S. AF	9002	9 19	2 35 34.90	10 07 48	-70 26				434023
33529	PORTLAND, ORE.	0076	9 19	3 39 23.6	15 42 00	7 06				845042
33530	PORTLAND, ORE.	0076	9 19	3 40 33.0	16 27 30	1 42				845042
33517	SACRAMENTO, CAL.	8517	9 19	3 46 04.0	19 32 36	-16 35				641013
33491	CHINA LAKE, CAL.	8588	9 19	3 47 33.3			180 00 00	34 37 48		845303
33518	SACRAMENTO, CAL.	8517	9 19	3 47 34.5	20 26 30	-23 52				641043
33527	PUEBLA, MEX.	0900	9 19	3 47 34.6	16 16 00	19 58				845043
33528	PUEBLA, MEX.	0900	9 19	3 48 08.2	16 45 30	13 56				845043
33531	SACRAMENTO, CAL.	8517	9 19	3 48 37.6	16 30 54	-8 18				641013
33532	SACRAMENTO, CAL.	8517	9 19	3 48 38.9	17 04 06	-15 26				641013
10743	HAWAII'BN, HAWAII	9022	9 19	5 48 56.90	22 32 36	11 38				434013
33533	SACRAMENTO, CAL.	8517	9 19	5 47 55.0	17 52 30	-24 47				641043
10711	VILLA COLORES'BN, ARG	9011	9 19	6 27 59.36	6 40 24	-42 23				434023
10712	VILLA COLORES'BN, ARG	9011	9 19	8 27 23.79	8 17 00	-77 07				434023
33454	SAN JUAN, ARG.	0812	9 19	8 35 26.5	10 01 30	-23 34				845002
34040	MITAKA, JAPAN	0229	9 19	9 34 25.6			288 22	59 48		845303
10714	TOKYO'BN, JAPAN	9005	9 19	9 35 18.00	17 14 12	34 30				434013
34045	MUSASHINO, JAPAN	0233	9 19	9 35 21.0			270	72		845302
34048	YOKKAICHI, JAPAN	0258	9 19	9 35 37	18 35	35 00				845002
34046	MUSASHINO, JAPAN	0233	9 19	9 36 07.0			225	80		845302
34044	MITAKA, JAPAN	0229	9 19	9 36 35.2			183 12	77 12		845303
34042	MITAKA, JAPAN	0229	9 19	9 38 05.9			145 42	57 14		845303
34043	MITAKA, JAPAN	0229	9 19	9 40 04.6			137 24	36 36		845303
34047	MUSASHINO, JAPAN	0233	9 19	9 44 35.0			135	15		845302
34044	MITAKA, JAPAN	0229	9 19	9 44 51.6			133 00	9 40		845302
52231	VLADIVOSTOK, USSR	1013	9 19	11 35 35.4	16 35 12	-6 24				845009
52232	VLADIVOSTOK, USSR	1013	9 19	11 39 55.4	18 43 06	-27 30				845009
10715	TOKYO'BN, JAPAN	9005	9 19	11 39 57.40	17 25 48	-15 53				434013
34053	MITAKA, JAPAN	0229	9 19	11 40 02.3			230 54	20 00		845303
34045	KASHIWARA, JAPAN	0222	9 19	11 41 48	18 45	-27				845002
34050	KANAYA MACHI, JAPAN	0220	9 19	11 42 56	19 27	-32				845003
34052	MIYAZAKI, JAPAN	0230	9 19	11 43 06.2	20 02 00	-31 46				845002
34051	KANAYA MACHI, JAPAN	0220	9 19	11 43 09	19 35	-34				845003
52237	TASHKENT, USSR	1075	9 19	15 30 15.4	15 48 00	3 30				845009
52242	STALINABAD, USSR	1068	9 19	15 32 12.9	16 40 30	-0 54				845009
10716	SHIRAZ'BN, IRAN	9008	9 19	15 32 38.19	19 46 12	29 40				434013
52236	TASHKENT, USSR	1075	9 19	15 34 26.4	18 06 30	-18 54				845009
52233	TASHKENT, USSR	1075	9 19	15 38 14.1	19 57 30	-35 18				845009
10709	NAINI TAL'BN, INDIA	9006	9 19	15 38 57.40	18 26 18	-23 58				434023
52240	TASHKENT, USSR	1075	9 19	15 39 12.3	20 19 00	-37 54				845009
52742	ICHERNOVITSY, USSR	1062	9 19	17 24 25.8	15 45 00	3 36				845009
52733	FRYK, USSR	1028	9 19	17 30 14.0	17 38 36	-12 48				845009

STATION	STA NO	DATE	TIME	R. A.	DECL.	AZIMUTH	ALTITUDE	NAME	INDBA
52235 LVOD, USSR	1031	9 19	17 32 18.8	19 49 00	-27 24				845009
52234 KRYM, USSR	1028	9 19	17 32 48.1	19 04 54	-25 18				845008
52233 TCHERNOVITSY, USSR	1062	9 19	17 33 16.6	20 05 36	-28 42				845007
52236 LVOD, USSR	1031	9 19	17 33 26.2	20 14 00	-29 18				845006
10706 MOCHENAYEN, AUSTR.	9003	9 19	18 14 13.81	9 16 00	-87 47				845005
10707 SAN FERNANDO, SP.	9004	9 19	19 22 06.60	17 52 30	17 03				845004
10710 COMACAGUEN, N.M.I.	9009	9 19	23 27 49.62	22 55 42	47 40				845003
3354 OLIFANTSPANTHEN, S.A.F.	9002	9 20	0 03 35.50	10 36 00	-88 26				845002
3354 SACRAMENTO, CAL.	8517	9 20	1 14 35.6			0 00	62 50		845001
33539 SAN ANTONIO, TEX.	8596	9 20	1 17 56.7	19 45 18	54 36				845000
33543 TERRE HAUTE, IND.	8127	9 20	1 20 54.8			243	37 30		844999
33545 FT. WORTH, TEX.	8139	9 20	1 21 43.6	18 44 06	31 30				844998
33546 FT. WORTH, TEX.	8149	9 20	1 22 04.6	18 55 06	26 12				844997
33540 SAN ANTONIO, TEX.	8096	9 20	1 22 44.0	19 47 48	37 00				844996
33547 BILLOU, CAL.	8090	9 20	1 22 45.3			270	62		844995
33549 NEW ORLEANS, LA.	8090	9 20	1 22 59			270 00	70 30		844994
33548 SA. GAY, MIN.	8090	9 20	1 25 04			180	61 54		844993
33541 SAN ANTONIO, TEX.	8096	9 20	1 25 49.9	21 37 00	1 53				844992
33542 SAN ANTONIO, TEX.	8096	9 20	1 25 57.9	21 39 36	1 03				844991
33544 TERRE HAUTE, IND.	8127	9 20	1 25 43.4			160	27 45		844990
33540 DALLAS, TEX.	8129	9 20	1 30 11.5	22 45 34	-77 16				844989
33545 OLIFANTSPANTHEN, S.A.F.	9002	9 20	2 11 44.90	9 57 46	-71 12				844988
33542 PORTLAND, ORE.	8076	9 20	3 18 01.9	16 51 30	16 24				844987
33542 SAN DIEGO, CAL.	8133	9 20	3 18 55.9	15 52	26 42				844986
33543 SAN DIEGO, CAL.	8133	9 20	3 20 34.6	16 48	21 06				844985
33544 SACRAMENTO, CAL.	8517	9 20	3 21 18.9	18 38 16	-6 26				844984
33546 SACRAMENTO, CAL.	8517	9 20	3 21 58.8			180 00	40 18		844983
33547 SACRAMENTO, CAL.	8517	9 20	3 22 40.2	19 34 48	-16 06				844982
33549 LATA, CAL.	8090	9 20	3 25 06.0			167 13 12	27 36 30		844981
33547 ALBUQUERQUE, CAL.	8089	9 20	3 25 19.0	19 25 00	21 36				844980
33548 ALBUQUERQUE, CAL.	8089	9 20	3 26 18.0	19 36 30	33 12				844979
33544 SAN DIEGO, CAL.	8133	9 20	3 28 11.2	17 47	-33 48				844978
33548 SACRAMENTO, CAL.	8517	9 20	3 28 08.6	18 49 12	-10 17				844977
33547 SACRAMENTO, CAL.	8517	9 20	3 28 38.3	18 52 30	-29 15				844976
33546 SACRAMENTO, CAL.	8517	9 20	3 28 56.5	18 52 48	-33 54				844975
34218 SAN JUAN, ARG.	8811	9 20	6 02 18.9	7 55	-81 54				844974
10717 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844973
34217 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844972
34216 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844971
34215 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844970
34214 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844969
34213 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844968
34212 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844967
34211 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844966
34210 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844965
34209 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844964
34208 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844963
34207 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844962
34206 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844961
34205 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844960
34204 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844959
34203 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844958
34202 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844957
34201 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844956
34200 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844955
34199 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844954
34198 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844953
34197 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844952
34196 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844951
34195 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844950
34194 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844949
34193 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844948
34192 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844947
34191 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844946
34190 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844945
34189 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844944
34188 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844943
34187 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844942
34186 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844941
34185 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844940
34184 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844939
34183 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844938
34182 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844937
34181 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844936
34180 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844935
34179 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844934
34178 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844933
34177 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844932
34176 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844931
34175 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844930
34174 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844929
34173 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844928
34172 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844927
34171 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844926
34170 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844925
34169 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844924
34168 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844923
34167 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844922
34166 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844921
34165 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844920
34164 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844919
34163 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844918
34162 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844917
34161 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844916
34160 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844915
34159 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844914
34158 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844913
34157 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844912
34156 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844911
34155 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844910
34154 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844909
34153 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844908
34152 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844907
34151 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844906
34150 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844905
34149 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844904
34148 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844903
34147 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844902
34146 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844901
34145 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844900
34144 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844899
34143 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844898
34142 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844897
34141 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844896
34140 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844895
34139 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844894
34138 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844893
34137 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844892
34136 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844891
34135 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844890
34134 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844889
34133 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844888
34132 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-58 10				844887
34131 YOKKA, JAPAN	8011	9 20	6 06 01.9	9 32 12	-5				

OBJ NO	STATION	STA NO	DATE	TIME	R. A.	DECL.	AZIMUTH	ALTITUDE	RANGE	INDEX
34515	KONKO, JAPAN	0224	9 21	10 59 29.5	21 03 00	-44 00				845002
10722	NAINTI TAL'BN, INDIA	9006	9 21	14 50 30.92	17 27 18	-11 53				434013
52244	KRYM, USSR	1028	9 21	16 43 32.6	17 33 24	-13 12				845009
10727	SHIRAZ'BN, IRAN	9008	9 21	16 52 21.26	19 05 00	-37 30				434023
56029	POTSAM, GER.	2729	9 21	18 34 32.2	14 00 54	3 14				834049
52245	MEUDON, FR.	2715	9 21	18 35 02.2			260 20	19 07		637109
52246	MEUDON, FR.	2715	9 21	18 36 12.8			250 37	22 36		637109
52247	MEUDON, FR.	2715	9 21	18 37 01.1			242 48	24 30		637109
52248	MEUDON, FR.	2715	9 21	18 38 22.5			228 11	26 18		637109
56030	POTSAM, GER.	2729	9 21	18 39 04.0	15 58 48	-9 36				834049
52249	MEUDON, FR.	2715	9 21	18 39 07.8			219 41	26 17		637109
52250	MEUDON, FR.	2715	9 21	18 40 03.0			209 31	25 18		637109
52251	MEUDON, FR.	2715	9 21	18 41 04.6			199 11	23 09		637109
52252	MEUDON, FR.	2715	9 21	18 42 05.5			190 20	20 17		637109
52253	MEUDON, FR.	2715	9 21	18 43 10.1			182 31	16 51		637109
52254	MEUDON, FR.	2715	9 21	18 44 16.2			175 59	13 18		637109
52255	MEUDON, FR.	2715	9 21	18 45 04.3			172 03	10 43		637109
56031	POTSAM, GER.	2729	9 21	18 45 04.8	18 37 00	-30 45				834049
52256	MEUDON, FR.	2715	9 21	18 46 00.0			168 08	7 49		637109
10720	WOOMERA'BN, AUSTR.	9003	9 21	19 33 56.31	7 46 00	-68 21				434023
33577	WOOMERA, AUSTR.	0603	9 21	19 34 55.0			146 18	46 06		845302
33581	ADELAIDE, AUSTR.	0600	9 21	19 35 02.2			136 35	58		845302
33578	WOOMERA, AUSTR.	0603	9 21	19 36 54.3			123 24	40 54		845302
33579	WOOMERA, AUSTR.	0603	9 21	19 38 09.1			112 36	35 40		845302
33580	WOOMERA, AUSTR.	0603	9 21	19 39 19.7			104 46	30 42		845302
33582	TOWNSVILLE, AUSTR.	8578	9 21	19 40 24.4			139 40	30 29		845302
33583	TOWNSVILLE, AUSTR.	8578	9 21	19 40 26.2			139 25	30 37		845302
33584	TOWNSVILLE, AUSTR.	8578	9 21	19 40 26.4			139 22	30 36		845302
10721	SAN FERNANDO'BN, SP.	9004	9 21	20 43 25.90	16 50 24	-15 31				434013
33585	SACRAMENTO, CAL.	8517	9 22	0 27 09.3			0 00	58 16		641304
33590	CHICAGO, ILL.	0020	9 22	0 31 49			259	17		845302
33594	TERRE HAUTE, IND.	8127	9 22	0 33 05.9			255 30	40 00		845303
33591	CHICAGO, ILL.	0020	9 22	0 34 08	17 12	13 45				845042
33596	ROCHESTER, N.Y.	8564	9 22	0 34 56.8	16 03 48	-4 47				845033
33597	ROCHESTER, N.Y.	8564	9 22	0 35 36.4	16 23 48	-8 09				845033
33599	DAYTON, OHIO	8557	9 22	0 35 55			246 33	37 00		845303
33592	CHICAGO, ILL.	0020	9 22	0 36 09.8	17 58	-11 00				845042
33595	TERRE HAUTE, IND.	8127	9 22	0 37 42.8	19 52	-16 00				845042
33596	ROCHESTER, N.Y.	8564	9 22	0 38 05.8	17 14 00	-16 12				845034
33593	CHICAGO, ILL.	0020	9 22	0 38 06.2	19 06	-21 05				845042
33600	DAYTON, OHIO	8557	9 22	0 39 31			188 52	25 46		845303
33601	N. CANTON, OHIO	8559	9 22	0 39 45.1	19 04 45	-27 30				845042
10725	CURACAO'BN, N.W.I.	9009	9 22	0 45 07.75	19 24 42	-2 16				434013
33602	SAN JOSE, CAL.	8573	9 22	2 33 53.4			180	55 26 24		641304
33606	SACRAMENTO, CAL.	8517	9 22	2 34 01.1			180 00	50 02		641304
33603	DENVER, COLO.	8582	9 22	2 34 45.6			232 48	26 00		845303
33604	WICHITA, KAN.	0026	9 22	2 34 48.0	15 48 19	-3 01				845043
33605	CHINA LAKE, CAL.	0096	9 22	2 35 34.7			180 00 00	48 59 24		641303
33606	SAN DIEGO, CAL.	0133	9 22	3 34 20.6	17 34	16 24				845042
33607	SAN DIEGO, CAL.	0133	9 22	3 35 12.9	16 48	8 06				845042
33608	SACRAMENTO, CAL.	8517	9 22	4 37 06.9	17 20 12	-24 36				641043
33608	SACRAMENTO, CAL.	8517	9 22	4 37 26.5	17 26 36	-26 16				641043
33609	SACRAMENTO, CAL.	8517	9 22	4 39 37.6	18 20 48	-36 08				641043
34118	SAN JUAN, ARG.	0012	9 22	7 19 20	8 50	-48 24				845002
34522	MITAKA, JAPAN	0229	9 22	8 26 36.3			114 36	67 42		845303
34523	MITAKA, JAPAN	0229	9 22	10 23 24.3			279 30	12 54		845303
34530	KANAYA MACHI, JAPAN	0220	9 22	10 24 21	14 24	16				845002
34529	YOKKAICHI, JAPAN	0258	9 22	10 26 42	15 47	4 11				845002
10735	YOKYU'BN, JAPAN	9005	9 22	10 27 36.50	16 00 48	-2 26				434013
34524	MITAKA, JAPAN	0229	9 22	10 29 28.3			225 42	26 18		845303
34527	MUSASHINO, JAPAN	0233	9 22	10 29 34.4			225 00	26 30		845302
34532	MIZULAWA, JAPAN	0267	9 22	10 29 55	17 36	19 30				845002
34531	KAGOSHIMA, JAPAN	0218	9 22	10 30 56	19 18	-19 18				845002
34526	ASAHINAWA, JAPAN	0201	9 22	10 31 01.2	18 43 00	-27 12				845002
34525	MITAKA, JAPAN	0229	9 22	10 34 03.6			186 00	15 12		845303
34528	MUSASHINO, JAPAN	0233	9 22	10 35 10.0			180	11 48		845302
52282	TASHKENT, USSR	1075	9 22	14 20 43.5	15 46 00	2 06				845009
52283	TASHKENT, USSR	1075	9 22	14 23 22.1	17 29 00	-13 54				845009
52284	TASHKENT, USSR	1075	9 22	14 25 00.6	18 37 30	-24 30				845009
10731	NAINTI TAL'BN, INDIA	9006	9 22	14 29 23.36	18 53 00	-29 18				434023
10728	WOOMERA'BN, AUSTR.	9003	9 22	17 01 39.26	21 07 30	-82 37				434023
52272	MEUDON, FR.	2715	9 22	18 13 27.1			241 30	26 20		637109
52273	MEUDON, FR.	2715	9 22	18 14 00.3			235 23	27 19		637109
52274	MEUDON, FR.	2715	9 22	18 15 06.3			222 26	28 07		637109
52275	MEUDON, FR.	2715	9 22	18 16 01.1			211 42	27 30		637109
52276	MEUDON, FR.	2715	9 22	18 17 02.2			200 32	25 30		637109
52277	MEUDON, FR.	2715	9 22	18 18 09.1			189 59	22 18		637109
52278	MEUDON, FR.	2715	9 22	18 19 03.2			182 52	19 15		637109
52279	MEUDON, FR.	2715	9 22	18 20 04.1			176 13	15 46		637109
52280	MEUDON, FR.	2715	9 22	18 21 09.9			170 26	12 00		637109
52281	MEUDON, FR.	2715	9 22	18 22 02.8			166 36	9 05		637109
10729	WOOMERA'BN, AUSTR.	9003	9 22	19 09 09.26	6 25 00	-75 04				434023
34220	TOWNSVILLE, AUSTR.	8578	9 22	19 17 08.2			134 33	27 49		845302
34221	TOWNSVILLE, AUSTR.	8578	9 22	19 17 10.2			134 21	27 47		845302
34222	TOWNSVILLE, AUSTR.	8578	9 22	19 17 10.3			134 18	27 46		845302
10730	SAN FERNANDO'BN, SP.	9004	9 22	20 19 52.70	16 42 36	-15 26				434013
33608	SACRAMENTO, CAL.	8517	9 23	0 03 19.1			0 00	56 23		641304
33613	TERRE HAUTE, IND.	8127	9 23	0 15 34.6			163	26 35		845303
10732	CURACAO'BN, N.W.I.	9009	9 23	0 21 28.54	19 04 00	3 09				434013
33609	SACRAMENTO, CAL.	8517	9 23	2 09 57.5			180 00	55 22		641304
33614	SAN DIEGO, CAL.	0133	9 23	2 12 05.5	18 53	4 00				845042
33615	ALBUQUERQUE, N.M.	8579	9 23	2 16 02			180 00	25 48		845302
33616	NEW ORLEANS, LA.	0030	9 23	2 17 46			225 00	22 30		845302

088 NO	STATION	STA NO	DATE	TIME	N. A.	DECL.	AZIMUTH	ALTITUDE	RANGE	INDEX
33617	PUEBLA, MEX.	0900	9 23	2 20 05.9	19 36 24	-26 05				845043
33618	SACRAMENTO, CAL.	8517	9 23	4 11 10.6	16 07 30	-12 18				845013
33619	SACRAMENTO, CAL.	8517	9 23	4 12 11.7	16 33 00	-17 40				845013
33619	CHINA LAKE, CAL.	0098	9 23	4 13 00.6			238 17 24	13 05 24		845043
33612	SACRAMENTO, CAL.	8517	9 23	4 16 35.9	18 30 18	-38 45				845043
33618	PUEBLA, MEX.	0900	9 23	4 26 00.1	16 33 48	-21 08				845043
10740	MAUI, HAWAII	9012	9 23	6 11 47.08	16 32 06	11 12				434013
34516	YOKKAICHI, JAPAN	0258	9 23	15 00 43	14 17 30	16 30				845002
34518	SAPPORO, JAPAN	0245	9 23	10 03 16.8	16 10 00	-9 30				845002
34519	MIYAKA, JAPAN	0229	9 23	10 06 15.0			218 18	28 06		845302
34519	KAGOSHIMA, JAPAN	0218	9 23	10 07 16.5	19 18	-17 36				845002
34514	MIYAKA, JAPAN	0229	9 23	10 07 28.7			205 00	25 36		845302
34517	KANAYA MACHI, JAPAN	0220	9 23	10 08 01	18 48	-27				845002
34515	MIYAKA, JAPAN	0229	9 23	10 08 14.5			197 48	23 18		845302
10716	NAINI TALIBN, INDIA	9006	9 23	14 05 15.09	16 37 42	-25 34				434023
52285	TASHKENT, USSR	1075	9 23	14 59 31.9	17 17 30	-12 06				845009
52286	TASHKENT, USSR	1075	9 23	14 59 58.6	17 33 30	-14 36				845009
34226	WOOMERA, AUSTR.	0603	9 23	18 45 31.1			162 42	43 30		845302
34227	WOOMERA, AUSTR.	0603	9 23	18 47 48.3			137 06	40 48		845302
34228	WOOMERA, AUSTR.	0603	9 23	18 51 05.7			110 18	28 54		845302
34223	SYDNEY, AUSTR.	0602	9 23	18 52 56	8 05	-23 30				845042
10734	SAN FERNANDO, SP.	9004	9 23	19 55 59.90	16 28 06	-13 41				434013
33610	SACRAMENTO, CAL.	8517	9 23	23 39 23.9			0 00	24 46		845043
34229	N. CANTON, OHIO	8565	9 23	23 48 39.0	17 41 15	19 33				845043
33612	FT. BELVOIR, VA.	0077	9 23	23 49 40.0			223 12	30 36		845302
33613	FT. BELVOIR, VA.	0077	9 23	23 53 17.3			181 42	23 54		845302
33612	FT. BELVOIR, VA.	0077	9 23	23 53 29.8			0 00	22		845302
10739	CORALGROVE, N.W.I.	9009	9 23	23 54 51.07	17 17 30	40 00				434013
10717	AREQUIPA, PERU	9007	9 24	0 03 13.39	22 54 48	33 23				434013
33611	SACRAMENTO, CAL.	8517	9 24	1 45 49.6			180 00	61 00		845043
33625	DENVER, COLO.	8562	9 24	1 47 45.4			224 45 00	30 48		845303
33616	NEW ORLEANS, LA.	0030	9 24	1 53 41			225 00	26 30		845302
34232	PUEBLA, MEX.	0900	9 24	1 57 31.6	20 44 18	-32 34				845043
34234	CHINA LAKE, CAL.	0098	9 24	3 52 00.7			214 42 36	13 04 40		845043
34233	PUEBLA, MEX.	0900	9 24	3 56 45.1	17 15 48	-34 07				845043
10741	MAUI, HAWAII	9012	9 24	5 50 09.39	17 36 48	-7 07				434013
34236	ANTOFAGASTA, CHILE	0804	9 24	6 33 00.1	0 50	-76 50				845042
34513	KAGOSHIMA, JAPAN	0218	9 24	9 39 44	16 16	18 54				845002
34510	ASAHIKAWA, JAPAN	0201	9 24	9 39 44.6	16 27	-17				845002
34511	MURASAKI, JAPAN	0213	9 24	9 40 43			225 00	32 30		845302
34514	MIYAKA, JAPAN	0229	9 24	9 44 10			190 30	18 46		845302
34512	YOKKAICHI, JAPAN	0258	9 24	9 44 23	16 44	-27 36				845002
34518	HSINCHU, CITY, TAIWAN	0505	9 24	11 43 16.1	16 36 12	-9 12				845042
34515	KAGOSHIMA, JAPAN	0218	9 24	11 47 10.1	17 42	-38 36				845002
10742	NAINI TALIBN, INDIA	9006	9 24	13 39 03.74	17 01 00	-4 30				434013
10718	SHIRAZ, IRAN	9008	9 24	15 37 47.07	16 07 12	-10 39				434013
10713	OLIFANT, S. AFR.	9001	9 24	16 17 34.41	7 45 30	-65 08				434023
33617	SACRAMENTO, CAL.	8517	9 24	23 15 24.2			0 00	25 24		845043
10743	CORALGROVE, N.W.I.	9009	9 24	23 33 23.44	19 32 12	18 29				434013
33618	SACRAMENTO, CAL.	8517	9 25	1 21 37.9			180 00	66 57		845043
33617	DENVER, COLO.	8562	9 25	1 24 28.5			215 45 00	33 07 00		845303
33616	NEW ORLEANS, LA.	0030	9 25	1 29 33			225 00	26 00		845302
34240	TERRE HAUTE, IND.	8517	9 25	1 31 00.6			207 15	8		845043
34241	PUEBLA, MEX.	0900	9 25	1 31 30.6	19 48 24	-12 40				845043
10744	MAUI, HAWAII	9012	9 25	5 26 47.44	16 21 30	-10 07				434013
34217	ANTOFAGASTA, CHILE	0804	9 25	8 09 03.5	0 50	-72 10				845042
34219	SAN JUAN, ARG.	0801	9 25	8 13 55.3	0 37 36	-29 23				845002
34246	YOKKAICHI, JAPAN	0258	9 25	9 14 01	14 16	16 48				845002
34245	TAIPEI, TAIWAN	0501	9 25	11 14 56.9	15 44 24	18 24				845042
34246	TAIPEI, TAIWAN	0501	9 25	11 18 16.4	15 44	1 30				845042
34247	HSINCHU, CITY, TAIWAN	0505	9 25	11 19 49.9	16 36	-10 06				845042
34248	HSINCHU, CITY, TAIWAN	0505	9 25	11 21 00.3	17 17	-21 18				845042
34247	YOKKAICHI, JAPAN	0258	9 25	11 22 47			220 42	3 46		845302
34243	KAGOSHIMA, JAPAN	0218	9 25	11 23 12.5	17 27 30	-37 12				845002
34249	HSINCHU, CITY, TAIWAN	0505	9 25	11 23 50.2	16 20 30	-9 30				845042
10745	OLIFANT, S. AFR.	9001	9 25	17 23 30.30	22 01 06	40 28				434013
34250	PERTH, AUSTR.	0601	9 25	19 56 50.0			171 48	48 36		845302
34251	PERTH, AUSTR.	0601	9 25	19 59 50.5			128 18	46 30		845302
34252	PERTH, AUSTR.	0601	9 25	20 02 32.8			103 48	34 36		845302
34246	UTIMBA, N.W.I.	8145	9 25	23 18 51.2	17 53 00	20 00				845009
10746	OLIFANT, S. AFR.	9001	9 25	23 43 31.70	16 08 00	-80 00				434023
34230	N. CANTON, OHIO	8565	9 26	1 03 47.1	16 04 09	-20 50				845043
34233	STATE COLLEGE, PA.	0062	9 26	1 04 20.6			236 12	6 06		845303
34234	STATE COLLEGE, PA.	0062	9 26	1 04 27.7			235 12	6 06		845303
34235	STATE COLLEGE, PA.	0062	9 26	1 04 32.1			234 39	6 06		845303
34236	PUEBLA, MEX.	0900	9 26	1 04 42.2	16 13 00	24 53				845043
34236	NEW ORLEANS, LA.	0030	9 26	1 05 24			225 00	32 00		845302
34231	N. CANTON, OHIO	8565	9 26	1 07 36.4	17 28	-37 15				845042
34243	PUEBLA, MEX.	0900	9 26	1 08 52.3	26 23 18	-22 52				845043
34244	PUEBLA, MEX.	0900	9 26	1 12 01.5	21 51 12	-37 33				845043
10750	CORALGROVE, N.W.I.	9009	9 26	1 13 58.42	17 04 12	-32 55				434023
10749	AREQUIPA, PERU	9007	9 26	1 17 13.63	19 35 24	8 49				434013
10747	OLIFANT, S. AFR.	9001	9 26	1 54 15.30	8 07 42	-54 54				434023
34245	CHINA LAKE, CAL.	0098	9 26	3 01 22.9			236 44 36	18 48 36		845303
34242	MIYAKA, JAPAN	0229	9 26	8 50 16.7			269 24	27 46		845303
34242	MIYAKA, JAPAN	0229	9 26	8 53 18.2			232 06	37 46		845303
34243	MURASAKI, JAPAN	0213	9 26	8 53 43.3			225	39		845302
34243	MIYAKA, JAPAN	0229	9 26	8 55 00			204 12	26 16		845302
34249	ASAHIKAWA, JAPAN	0201	9 26	8 57 28.3	18 16	-31 36				845002
34515	MIYAKA, JAPAN	0229	9 26	9 00 00			171 12	9 12		845302
34514	MIYAKA, JAPAN	0229	9 26	9 00 02.2			166 00	13 06		845303
34257	TAIPEI, TAIWAN	0501	9 26	10 55 12.6	16 02	-3 24				845042

OBJ NO	STATION	SIA NO	DATE	TIME	RA	DECL.	ASTMUTH	ALTITUDE	NAME	INDEX
34556	KAGOSHIMA, JAPAN	0210	9 26	10 56 07	16 04	-19 36				845002
34258	TAIPEI, TAIWAN	0502	9 26	10 57 38.2	17 26	-24 00				845042
34260	HSINGCHU CITY, TAIWAN	0505	9 26	10 58 29.4	18 03	-30 24				845042
34259	TAIPEI, TAIWAN	0502	9 26	10 59 36.0	18 41	-38 24				845042
34261	WOOMERA, AUSTR.	0603	9 26	11 09 14			2	24 30		845302
34263	PERTH, AUSTR.	0601	9 26	13 06 12.6			332 48	15 00		841302
19748	WOOMERA BN, AUSTR.	9003	9 26	17 32 43.82	6 47 18	-75 43				434023
34224	SYDNEY, AUSTR.	0602	9 26	17 37 31	6 25	-53				845042
34225	SYDNEY, AUSTR.	0602	9 26	17 40 26.8	7 42	-29 12				845042
56147	USHINAS	8145	9 26	22 58 50.0			50	70		845309
34264	MILWAUKEE, WISC.	0074	9 27	0 34 32.2			257 54	11 24		841304
34265	MILWAUKEE, WISC.	0074	9 27	0 37 15.4			236 06	13 48		841304
34267	ST. PETERSBURG, FLA.	0121	9 27	0 41 52	15 21	-6 48				845032
10751	JUPITER BN, FLA.	9010	9 27	0 42 43.54	15 53 18	-15 37				434013
34268	ST. PETERSBURG, FLA.	0121	9 27	0 43 23	16 10	-15 10				845032
34266	MILWAUKEE, WISC.	0074	9 27	0 44 23.1			189 24	3 48		841304
34269	ST. PETERSBURG, FLA.	0121	9 27	0 44 26	16 40	-21 40				845032
34270	PUEBLA, MEX.	0900	9 27	3 44 36.8	20 18 18	-16 16				845043
10752	CURACAO BN, N.W.I.	9009	9 27	0 48 27.97	16 25 12	-20 55				434013
34273	CHINA LAKE, CAL.	8588	9 27	2 39 14.2			217 30	19 48 36		845303
34271	PUEBLA, MEX.	0900	9 27	2 42 01.5	15 23 18	-5 16				845043
34272	PUEBLA, MEX.	0900	9 27	2 49 16.6	17 36 18	-48 26				845043
10753	VILLA DOLORES BN, ARG.	9011	9 27	5 18 41.44	7 30 48	-52 20				434023
10754	VILLA DOLORES BN, ARG.	9011	9 27	7 20 50.07	6 13 24	-69 31				434023
34274	TAIPEI, TAIWAN	0502	9 27	10 31 47.7	16 09	-5 06				845042
34298	BAGUIO CITY, PHILS.	0504	9 27	10 33 12			254	59 54		845302
34275	TAIPEI, TAIWAN	0502	9 27	10 34 37.2	18 02 30	-30 30				845042
34262	WOOMERA, AUSTR.	0603	9 27	10 46 06.5	21 10	30				845041
11869	WOOMERA BN, AUSTR.	9003	9 27	10 48 20.13	22 18 48	15 38				434013
10755	WOOMERA BN, AUSTR.	9003	9 27	17 08 13.60	6 38 48	-77 15				434023
34277	PRETORIA, S.AFR.	8575	9 27	18 37 37.6			326 24	32 06		845303
10756	WOOMERA BN, AUSTR.	9003	9 27	19 15 36.78	5 57 00	-39 13				434023
34276	ADELAIDE, AUSTR.	0600	9 27	19 18 41.8			50 15	49 30		845302
34277	ADELAIDE, AUSTR.	0600	9 27	19 20 33.0	7 40	5 30				845041
34278	SACRAMENTO, CAL.	8517	9 27	22 02 59.4			0 00	50 14		841304
10759	JUPITER BN, FLA.	9010	9 28	0 22 13.75	17 26 30	-38 58				434023
10758	CURACAO BN, N.W.I.	9009	9 28	0 25 29.67	16 42 54	-29 31				434023
10760	VILLA DOLORES BN, ARG.	9011	9 28	0 35 54.13	21 50 42	8 34				434013
34279	PUEBLA, MEX.	0900	9 28	2 23 56.7	17 09 48	-43 07				845043
10761	VILLA DOLORES BN, ARG.	9011	9 28	6 58 19.61	7 32 48	-44 48				434023
10762	VILLA DOLORES BN, ARG.	9011	9 28	9 03 45.59	5 38 18	-21 31				434013
34299	BAGUIO CITY, PHILS.	0500	9 28	10 07 38			305	44		845302
34300	BAGUIO CITY, PHILS.	0500	9 28	10 08 48			290	80		845302
34301	BAGUIO CITY, PHILS.	0504	9 28	10 09 27			252	70		845302
34302	BAGUIO CITY, PHILS.	0500	9 28	10 12 11			166	62		845302
34303	BAGUIO CITY, PHILS.	0504	9 28	10 15 59			145 48	16 42		845302
34280	TOWNSVILLE, AUSTR.	8578	9 28	10 24 11.0			257 32	88 47		845302
34281	TOWNSVILLE, AUSTR.	8578	9 28	10 24 11.5			251 42	88 47		845302
34282	TOWNSVILLE, AUSTR.	8578	9 28	10 24 23.4			158 40	87 47		845302
10757	WOOMERA BN, AUSTR.	9003	9 28	10 24 51.58	22 34 48	12 24				434013
34283	ADELAIDE, AUSTR.	0600	9 28	10 25 45.2			42 45	28 45		845302
34284	ADELAIDE, AUSTR.	0600	9 28	10 25 47			43	29 15		845302
34285	ADELAIDE, AUSTR.	0600	9 28	10 26 34			51 55	30 00		845303
34304	BAGUIO CITY, PHILS.	0504	9 28	12 16 04			216 30	10		845304
34286	WOOMERA BN, AUSTR.	9003	9 28	16 42 33.13	3 12 00	-86 16				434023
34287	SYDNEY, AUSTR.	0602	9 28	16 52 39	7 52	-23 12				845042
34288	WOOMERA, AUSTR.	0603	9 28	18 43 24.7			223 00	26 00		845302
34291	WOOMERA, AUSTR.	0603	9 28	18 48 13.4			199 30	38 12		845302
34294	WOOMERA BN, AUSTR.	9003	9 28	18 51 06.71	5 50 42	-42 26				434023
34292	WOOMERA, AUSTR.	0603	9 28	18 53 23.4			86 30	55 48		845302
34293	WOOMERA, AUSTR.	0603	9 28	18 57 18.3			88 06	30 00		845302
34305	ADELAIDE, AUSTR.	0600	9 28	19 06 09.6	7 40	4 42				845041
33983	SACRAMENTO, CAL.	8517	9 28	21 38 42.7			0 00	49 46		841304
33984	SACRAMENTO, CAL.	8517	9 28	23 44 18.1			0 00	89 28		841304
10765	CURACAO BN, N.W.I.	9009	9 29	0 01 19.62	16 36 18	-28 48				434023
10771	VILLA DOLORES BN, ARG.	9011	9 29	0 11 35.27	21 45 00	11 20				434013
10772	VILLA DOLORES BN, ARG.	9011	9 29	6 31 58.18	6 09 54	-71 09				434023
10773	VILLA DOLORES BN, ARG.	9011	9 29	8 06 14.82	4 52 48	-33 09				434023
34294	SYDNEY, AUSTR.	0602	9 29	9 58 42.5	19 17 30	32				845043
34268	WOOMERA BN, AUSTR.	9003	9 29	10 00 39.57	22 28 42	13 58				434013
34295	SYDNEY, AUSTR.	0602	9 29	10 00 43.5	20 48	16 06				845043
34296	SYDNEY, AUSTR.	0602	9 29	10 04 42.3	24 52	-7 48				845043
34311	BAGUIO CITY, PHILS.	0500	9 29	11 47 50.5			248	12		845302
34312	BAGUIO CITY, PHILS.	0500	9 29	11 48 39.0			242	12		845302
34313	BAGUIO CITY, PHILS.	0500	9 29	11 49 50.0			232	13		845304
10770	WOOMERA BN, AUSTR.	9003	9 29	14 04 06.87	20 13 54	-31 10				434023
10769	WOOMERA BN, AUSTR.	9003	9 29	16 25 47.60	7 45 30	-34 37				434023
34301	PRETORIA, S.AFR.	0405	9 29	17 53 31.6	21 29 30	-5 42				845042
10767	WOOMERA BN, AUSTR.	9003	9 29	18 25 59.45	5 20 06	-50 09				434023
34287	SYDNEY, AUSTR.	0602	9 29	18 31 10.5	5 32 30	-5 24				845043
34288	SYDNEY, AUSTR.	0602	9 29	18 31 45.9	5 50 30	-1 24				845043
34289	SYDNEY, AUSTR.	0602	9 29	18 35 33.25	7 15 06	18 06				845043
10766	OLIFANTSENFENTEN, S.AFR.	0602	9 29	18 51 01.20	19 43 36	18 24				434013
34302	PRETORIA, S.AFR.	0405	9 29	19 56 48.4	18 05	-41 24				845042
34307	SACRAMENTO, CAL.	8517	9 29	21 14 22.1			0 00	49 16		841304
10765	CURACAO BN, N.W.I.	9009	9 29	23 30 47.12	14 05 48	18 46				434013
10774	AREQUIPA BN, PERU	9007	9 29	23 43 58.93	20 31 24	8 20				434013
34314	LAWTON, OKLA.	0110	9 30	1 31 10.5			220 25 12	6 14 24		845304
34315	LAWTON, OKLA.	0110	9 30	1 31 44.2			216 54 00	6 56 24		845304
34316	LAWTON, OKLA.	0110	9 30	1 32 07.8			212 36 00	4 46 48		845304
10775	VILLA DOLORES BN, ARG.	9011	9 30	1 52 11.12	19 58 06	-44 26				434023

OBS NO	STATION	STA NO	DATE	TIME	R. A.	DECL.	AZIMUTH	ALTITUDE	RANGE	TAU
10776	VILLA DOLORES*BN,ARG	9011	9 30	6 10 07.83	7 08 00	-49 45				434023
10777	VILLA DOLORES*BN,ARG	9011	9 30	8 20 01.13	7 28 48	7 00				434013
34317	ADELAIDE, AUSTR.	0600	9 30	9 14 16.0			60 55	20 20		845302
34318	ADELAIDE, AUSTR.	0600	9 30	9 15 06			72 30	20 50		845302
34319	ADELAIDE, AUSTR.	0600	9 30	9 16 30			78 50	17 55		845302
34323	TOWNSVILLE, AUSTR.	8578	9 30	9 35 11.1			24 36	73 55		845302
34324	TOWNSVILLE, AUSTR.	8578	9 30	9 35 13.3			27 57	74 23		845302
34325	TOWNSVILLE, AUSTR.	8578	9 30	9 35 28.6			43 56	75 12		845302
34356	SYDNEY, AUSTR.	0602	9 30	9 38 52.3	21 38	8 12				845047
34357	SYDNEY, AUSTR.	0602	9 30	9 42 03.8	23 45	-14 42				845047
34358	SYDNEY, AUSTR.	0602	9 30	9 42 29.8	0 00 00	-17 06				845047
34359	SYDNEY, AUSTR.	0602	9 30	9 44 50.6	1 18	-25 24				845047
34320	ADELAIDE, AUSTR.	0600	9 30	11 16 44.6			352	78		845302
34321	ADELAIDE, AUSTR.	0600	9 30	11 17 40.2			73 20	79 15		845302
34322	ADELAIDE, AUSTR.	0600	9 30	11 19 14.4			112 20	61 00		845302
34326	QUEZON CITY, PH. IS.	0500	9 30	11 28 19			210	14		845302
34327	QUEZON CITY, PH. IS.	0500	9 30	11 30 30			197	10		845302
34328	QUEZON CITY, PH. IS.	0500	9 30	11 32 22			188	6		845302
34306	ADELAIDE, AUSTR.	0600	9 30	11 38 02.0			131 40	41 30		845302
34329	WOOMERA, AUSTR.	0603	9 30	11 38 32.3			295 24	60 00		845302
34360	SYDNEY, AUSTR.	0602	9 30	11 38 35.9	18 04 30	-4 06				845047
34330	WOOMERA, AUSTR.	0603	9 30	11 40 20.1			245 48	82 12		845302
10779	WOOMERA*BN, AUSTR.	9003	9 30	11 40 34.26	20 56 54	-36 58				434023
34307	ADELAIDE, AUSTR.	0600	9 30	11 41 20.0			28 50	65 30		845303
34361	SYDNEY, AUSTR.	0602	9 30	11 41 39	18 55	-26 48				845047
34331	WOOMERA, AUSTR.	0603	9 30	11 42 46.4			140 18	59 06		845302
34333	CHATTANOOGA, TENN.	0062	9 30	14 42 25			136	88 30		434013
10780	WOOMERA*BN, AUSTR.	9003	9 30	15 52 33.63	20 03 48	-83 18				434023
10778	OLIFANTSFENTIN*BN,S.AF	9002	9 30	17 52 44.90	23 53 06	-28 08				434023
34334	WOOMERA, AUSTR.	0603	9 30	17 58 14.3			200 54	48 48		845302
34366	ADELAIDE, AUSTR.	0600	9 30	18 01 14			141 30	78 45		845303
34365	ADELAIDE, AUSTR.	0600	9 30	18 01 14.0			54 30	78 45		845303
10781	WOOMERA*BN, AUSTR.	9003	9 30	18 01 15.29	5 09 48	-53 54				434023
34335	WOOMERA, AUSTR.	0603	9 30	18 01 47.3			139 18	63 00		845302
34336	WOOMERA, AUSTR.	0603	9 30	18 04 33.1			95 00	49 24		845302
34309	ADELAIDE, AUSTR.	0600	9 30	18 05 26.5			69 16	45 37		845303
34310	ADELAIDE, AUSTR.	0600	9 30	18 08 49.3	7 35	14				845041
10787	CUPA*BN, HAWAII	9009	9 30	23 10 51.30	25 31 00	-7 28				434013
10788	VILLA DOLORES*BN,ARG	9011	9 30	23 28 30.44	0 30 54	-17 18				434013
34337	PUEBLA, MEX.	0900	10 01	1 09 00.1	15 53 06	-26 00				845043
34338	PUEBLA, MEX.	0900	10 01	1 10 29.8	16 34 00	-37 28				845043
34339	PUEBLA, MEX.	0900	10 01	1 11 23.8	17 01 42	-43 57				845043
10789	VILLA DOLORES*BN,ARG	9011	10 01	1 24 44.93	18 22 42	-11 53				434013
10796	VILLA DOLORES*BN,ARG	9011	10 01	5 40 45.98	0 17 00	-84 30				434023
34362	SYDNEY, AUSTR.	0602	10 01	9 13 51.1	21 09 30	15 42				845047
34363	SYDNEY, AUSTR.	0602	10 01	9 16 52.7	23 03	-7 06				845047
34370	QUEZON CITY, PH. IS.	0500	10 01	10 58 24			257	12		845302
34371	QUEZON CITY, PH. IS.	0500	10 01	11 01 18			233	19		845302
10782	WOOMERA*BN, AUSTR.	9003	10 01	11 15 50.29	20 40 30	-30 09				434023
34354	SYDNEY, AUSTR.	0602	10 01	11 17 13	18 47 30	-24 30				845047
34365	SYDNEY, AUSTR.	0602	10 01	11 17 44.6	19 02	-29 30				845047
34372	SYDNEY, AUSTR.	0602	10 01	11 21 04	22 06	-61 48				845047
10801	OLIFANTSFENTIN*BN,S.AF	9002	10 01	17 00 07.60	18 31 06	37 38				434013
34353	PRETORIA, S.AFR.	8575	10 01	17 00 22.0	18 42	36 24				845042
34355	PRETORIA, S.AFR.	8575	10 01	17 06 40.5	22 44	-14 36				845042
34340	ADELAIDE, AUSTR.	0600	10 01	17 40 45.4			74 40	48 00		845302
34354	PRETORIA, S.AFR.	8575	10 01	19 08 07.8	17 57 30	-41 24				845042
34341	PUEBLA, MEX.	0900	10 02	0 46 41.3	16 47 18	-40 06				845043
10791	VILLA DOLORES*BN,ARG	9011	10 02	1 07 30.87	1 24 12	-58 28				434013
10794	VILLA DOLORES*BN,ARG	9011	10 02	7 30 23.35	7 05 00	0 18				434013
34375	TOWNSVILLE, AUSTR.	8578	10 02	8 48 40.4			102 39	50 42		845302
34376	TOWNSVILLE, AUSTR.	8578	10 02	8 48 40.4			99 30	48 44		845302
10783	WOOMERA*BN, AUSTR.	9003	10 02	10 51 20.29	20 39 30	-25 59				434023
34332	WOOMERA, AUSTR.	0603	10 02	10 52 10.5			108 12	79 30		845302
10784	WOOMERA*BN, AUSTR.	9003	10 02	12 58 58.28	0 42 00	-84 23				434023
10785	WOOMERA*BN, AUSTR.	9003	10 02	17 11 18.36	4 31 12	-82 58				434023
10803	OLIFANTSFENTIN*BN,S.AF	9002	10 02	18 42 11.00	17 38 54	-34 32				434023
34379	PRETORIA, S.AFR.	8575	10 02	18 43 45.0	17 56	-41 30				845042
10786	WOOMERA*BN, AUSTR.	9003	10 02	19 17 19.88	3 32 42	-8 35				434013
10804	OLIFANTSFENTIN*BN,S.AF	9002	10 03	1 01 06.10	22 02 30	-81 06				434023
10797	VILLA DOLORES*BN,ARG	9011	10 03	4 56 00.25	6 36 24	-52 50				434023
34358	ADELAIDE, AUSTR.	0600	10 03	9 58 17.3			325 45	15 15		845303
34369	ADELAIDE, AUSTR.	0600	10 03	10 06 46.5			105 15	43 15		845303
34380	WOOMERA, AUSTR.	0603	10 03	10 25 54.3			343 54	70 12		845302
10798	WOOMERA*BN, AUSTR.	9003	10 03	10 26 32.92	20 27 30	-19 42				434013
34377	TOWNSVILLE, AUSTR.	8578	10 03	10 27 23.5			209 24	55 16		845302
34378	TOWNSVILLE, AUSTR.	8578	10 03	10 27 25.2			209 05	55 07		845302
34381	WOOMERA, AUSTR.	0603	10 03	10 28 29.5			169 18	65 06		845302
34373	SYDNEY, AUSTR.	0602	10 03	10 28 49.6	18 54 30	-26 12				845047
34374	SYDNEY, AUSTR.	0602	10 03	10 29 02.6	19 03	-28 24				845047
34386	MELBOURNE, AUSTR.	0604	10 03	10 29 25			0	72		845302
34367	ADELAIDE, AUSTR.	0600	10 03	10 31 08.8			108 00	67 00		845303
34382	WOOMERA, AUSTR.	0603	10 03	10 32 21.6			125 06	29 08		845302
34375	SYDNEY, AUSTR.	0602	10 03	10 34 23.6	4 19	-57 36				845047
34342	PUEBLA, MEX.	0900	10 03	11 09 52.0	6 47 54	-55 00				845043
34343	PUEBLA, MEX.	0900	10 03	11 11 57.2	7 44 24	-46 34				845043
34383	WOOMERA, AUSTR.	0603	10 03	12 27 43.6			252 46	24 24		845302
34384	WOOMERA, AUSTR.	0603	10 03	12 29 38.6			256 42	34 00		845302
10799	WOOMERA*BN, AUSTR.	9003	10 03	12 32 14.15	16 49 18	-68 50				434023
34385	WOOMERA, AUSTR.	0603	10 03	12 32 24.9			201 24	40 54		845302
10807	MAUI*BN, HAWAII	9012	10 03	15 08 09.81	7 46 42	-47 33				434023
34387	SYDNEY, AUSTR.	0602	10 03	16 52 43.4	5 15	-16 42				845047

OBJ NO	LOCATION	STA NO	DATE	TIME	R. A.	DECL.	AZIMUTH	ALTITUDE	RANGE	REMARKS
34388	SYDNEY, AUSTR.	0804	10 07	16 34 49.7	17 48 30	-9 12				043007
10805	OLIFANTSDINTENBN, S.AF.	9001	10 07	16 10 22.75	17 48 42	-80 43				043008
35156	PRETORIA, S.AFR.	8575	10 07	16 19 18.7	17 50 30	-41 24				043009
34344	SACRAMENTO, CAL.	8517	10 07	16 36 22.1			0 00	49 18		043010
34389	QUEZON CITY, PH. IS.	0500	10 07	16 04 20			158	39		043011
34390	QUEZON CITY, PH. IS.	0500	10 07	16 04 01			106	40		043012
34391	BAGUIO CITY, PH. IS.	0504	10 07	16 08 58			111	37 30		043013
34392	BAGUIO CITY, PH. IS.	0504	10 07	16 13 22			70 42	25 27 00		043014
10812	VILLA DOLORES, BN, ARG.	9011	10 07	16 11 33.38	18 40 04	-8 03				043015
34394	ANTOFAGASTA, CHILE	0804	10 07	16 11 40.6	18 46 12	-16 17				043016
34395	ANTOFAGASTA, CHILE	0804	10 07	16 16 23.2	18 52	-52 39				043017
34396	ANTOFAGASTA, CHILE	0804	10 07	16 18 47.3	18 55	-78 35				043018
10813	VILLA DOLORES, BN, ARG.	9011	10 07	16 11 11.54	19 32 00	-83 13				043019
10806	OLIFANTSDINTENBN, S.AF.	9001	10 07	16 10 33.09	19 48 30	-15 34				043020
10814	VILLA DOLORES, BN, ARG.	9011	10 07	16 11 23.90	19 52 34	-64 33				043021
34397	WOOMERA, AUSTR.	0603	10 07	16 06 30.5	19 14	0 30				043022
34398	TOWNSVILLE, AUSTR.	8578	10 07	16 01 39.12			225 39	34 57		043023
34399	TOWNSVILLE, AUSTR.	8578	10 07	16 01 40.83			225 11	38 57		043024
10808	WOOMERA, BN, AUSTR.	9003	10 07	16 01 54.38	19 19 12	-13 44				043025
34400	PUEBLA, MEX.	0901	10 07	16 02 04.1	19 49 00	-16 37				043026
34401	PUEBLA, MEX.	0901	10 07	16 04 12.3	19 46 42	-8 33				043027
34402	N. CANTON, CHIO	0505	10 07	16 02 44.7	19 11 30	-8 50				043028
10809	WOOMERA, BN, AUSTR.	9003	10 07	16 07 18.77	19 44 30	-65 40				043029
10810	WOOMERA, BN, AUSTR.	9003	10 07	16 11 50.59	19 40 42	-57 17				043030
35157	PRETORIA, S.AFR.	8575	10 07	16 18 29.6	19 45 00	-49 30				043031
10811	WOOMERA, BN, AUSTR.	9003	10 07	16 18 32.57	19 44 14	-10 37				043032
34403	SACRAMENTO, CAL.	8517	10 07	16 11 41.7			0 00	49 43		043033
34404	QUEZON CITY, PH. IS.	0500	10 07	16 07 31.5			00	46		043034
53687	USIMINAS	8145	10 07	16 06 36.3	18 45 00	-27 03				043035
53688	USIMINAS	8145	10 07	16 07 06.3	18 42 48	-30 30				043036
53689	USIMINAS	8145	10 07	16 07 07.3	18 45 00	-43 36				043037
53690	USIMINAS	8145	10 07	16 07 06.8	18 44 48	-50 30				043038
34405	ANTOFAGASTA, CHILE	0804	10 07	16 02 06.3	18 17	-54 33				043039
34411	TOWNSVILLE, AUSTR.	8578	10 07	16 07 24			219 58	41 45		043040
34412	TOWNSVILLE, AUSTR.	8578	10 07	16 07 26.5			219 31	41 49		043041
34413	TOWNSVILLE, AUSTR.	8575	10 07	16 07 27.7			219 35	42 37		043042
34414	SYDNEY, AUSTR.	0602	10 07	16 07 06.3	19 51 30	-21 30				043043
34415	SYDNEY, AUSTR.	0602	10 07	16 07 07.3	19 51	-27 42				043044
34418	PUEBLA, MEX.	0901	10 07	16 04 51.7	19 41 30	-10 30				043045
34419	N. CANTON, CHIO	0505	10 07	16 03 14.1	19 17 36	-7 24				043046
10815	WOOMERA, BN, AUSTR.	9003	10 07	16 07 32.3	19 45 00	-58 15				043047
10816	WOOMERA, BN, AUSTR.	9003	10 07	16 08 02.0	19 49 10	-10 27				043048
53691	USIMINAS	8145	10 07	16 08 00.9	18 41 30	-35 36				043049
53692	USIMINAS	8145	10 07	16 08 00.9	18 40 20	-43 18				043050
34416	ANTOFAGASTA, CHILE	0804	10 07	16 01 36.8	18 42 30	-27 17				043051
10817	OLIFANTSDINTENBN, S.AF.	9001	10 07	16 05 06.10	19 47 12	-18 37				043052
34409	ANTOFAGASTA, CHILE	0804	10 07	16 01 31.1	19 19	-57 24				043053
34410	ANTOFAGASTA, CHILE	0804	10 07	16 01 44.1	19 11	-78 18				043054
10818	OLIFANTSDINTENBN, S.AF.	9001	10 07	16 01 22.83	19 55 00	-19 08				043055
34407	ANTOFAGASTA, CHILE	0804	10 07	16 01 46.5	19 17 24	-18 27				043056
34408	ANTOFAGASTA, CHILE	0804	10 07	16 01 31.1	19 18 30	-19 42				043057
10822	CORACAO, BN, N.W. I.	9009	10 07	16 01 13.54	19 11 30	-31 36				043058
34416	SYDNEY, AUSTR.	0602	10 07	16 01 19.7	19 51 30	-20 30				043059
34417	SYDNEY, AUSTR.	0602	10 07	16 01 11.1	19 51	-47 06				043060
34420	PUEBLA, MEX.	0900	10 07	16 01 26.5	19 45 0	-35 10				043061
34422	WOOMERA, AUSTR.	0603	10 07	16 01 10.3			219 44	40 00		043062
10819	WOOMERA, BN, AUSTR.	9003	10 07	16 01 57.0	19 44 14	-57 00				043063
34421	PUEBLA, MEX.	0901	10 07	16 01 35.6	19 44 48	-7 14				043064
10820	WOOMERA, BN, AUSTR.	9003	10 07	16 01 35.7	19 45 00	-53 11				043065
35158	PRETORIA, S.AFR.	8575	10 07	16 01 35.7	19 44 30	-47 30				043066
10821	WOOMERA, BN, AUSTR.	9003	10 07	16 01 35.7	19 43 14	-18 14				043067
34423	TOWNSVILLE, AUSTR.	8578	10 07	16 07 26.4	19 50	-37 42				043068
34424	WOOMERA, AUSTR.	0603	10 07	16 01 35.7			219 30	37 12		043069
34430	SYDNEY, AUSTR.	0602	10 07	16 01 37.7	19 46 30	-29 42				043070
34431	SYDNEY, AUSTR.	0602	10 07	16 01 38.5	19 43 30	-42 24				043071
34432	SYDNEY, AUSTR.	0602	10 07	16 01 37.5	19 46	-50 42				043072
34425	WOOMERA, AUSTR.	0603	10 07	16 01 35.8			219 00	32 30		043073
34426	WOOMERA, AUSTR.	0603	10 07	16 01 37.7			219 06	27 42		043074
10824	WOOMERA, BN, AUSTR.	9003	10 07	16 01 35.0	19 51 30	-54 58				043075
10825	WOOMERA, BN, AUSTR.	9003	10 07	16 01 35.7	19 41 12	-14 46				043076
10826	WOOMERA, BN, AUSTR.	9003	10 07	16 01 35.91	19 43 34	-2 38				043077
34393	BAGUIO CITY, PH. IS.	0504	10 07	16 12 57			219	30		043078
34433	ANTOFAGASTA, CHILE	0804	10 08	16 38 21.7	18 00	-68 17				043079
34434	ANTOFAGASTA, CHILE	0804	10 08	16 39 28.6	18 11	-78 34				043080
10833	SHIRAZ, BN, IRAN	9008	10 08	16 29 22.5	19 43 48	-13 26				043081
10827	SAN FERNANDO, BN, SP.	9004	10 08	16 28 29.00	19 45 48	-5 21				043082
10831	AREQUIPA, BN, PERU	9007	10 08	16 28 30.5	19 48 18	-33 49				043083
10830	AREQUIPA, BN, PERU	9007	10 08	16 27 07.28	19 47 34	-10 13				043084
34427	WOOMERA, AUSTR.	0603	10 08	16 29 31.5			269 00	29 12		043085
34428	WOOMERA, AUSTR.	0603	10 08	16 29 31.8			262 30	29 00		043086
34429	WOOMERA, AUSTR.	0603	10 08	16 29 38.7			176 36	46 30		043087
34438	NEW ORLEANS, LA.	0030	10 08	11 18 21			180 00	43 00		043088
34439	NEW ORLEANS, LA.	0030	10 08	11 24 35			93 00	49 00		043089
54323	TULEAR, MADAG.	6404	10 08	16 20 00.0			133 00	10 00		043090
54324	TULEAR, MADAG.	6404	10 08	16 20 00.0			143 48	10 48		043091
54325	TULEAR, MADAG.	6404	10 08	16 21 00.0			140 42	0 00		043092
54326	TULEAR, MADAG.	6404	10 08	16 24 00.0			131 00	5 00		043093
54327	TULEAR, MADAG.	6404	10 08	16 25 00.0			135 48	2 36		043094
54328	TULEAR, MADAG.	6404	10 08	16 20 00.0			168 12	15 42		043095
54329	TULEAR, MADAG.	6404	10 08	16 21 00.0			164 34	15 18		043096

OBS NO	STATION	STA NO	DATE	TIME	R. A.	DEC.	AZIMUTH	ALTITUDE	RANGE	INDEX
54330	TULEAR, MADAG.	6404	10 08	18 24 30.9			184 24	9 42		845309
54331	TULEAR, MADAG.	6404	10 08	18 25 00.0			141 36	8 42		845309
54332	TULEAR, MADAG.	6404	10 08	18 26 00.0			137 24	6 42		845309
34558	KASHIWABARA, JAPAN	0222	10 08	19 08 01	7 24	-29				845002
34557	YOKKAICHI, JAPAN	0258	10 08	19 08 10	7 22	-29				845002
10829	NAINI TAL, INDIA	9006	10 08	23 04 41.53	7 41 42	-30 36				434023
34440	ANTOFAGASTA, CHILE	0804	10 09	0 14 30.5	16 18	-78 44				845042
10835	VILLA DOLORES, BN, ARG	9011	10 09	0 15 30.02	27 27 54	-65 18				434023
10834	SHIRAZ, BN, IRAN	9008	10 09	1 05 08.54	8 02 00	-7 40				434013
10836	VILLA DOLORES, BN, ARG	9011	10 09	2 19 03.77	16 40 06	-60 09				434023
10828	SAN FERNANDO, BN, SR.	9004	10 09	5 04 36.30	9 01 12	-1 43				434013
10832	AREQUIPA, BN, PERU	9007	10 09	8 41 28.27	2 47 54	8 42				434013
10837	VILLA DOLORES, BN, ARG	9011	10 09	8 42 54.99	2 48 36	31 53				434013
34441	SYDNEY, AUSTR.	0602	10 09	10 02 43.7	16 18	-25 54				845047
34442	SYDNEY, AUSTR.	0602	10 09	10 04 38.4	16 43	-43 18				845047
34443	SYDNEY, AUSTR.	0602	10 09	10 06 14.4	17 23	-60 54				845047
34435	WOOMERA, AUSTR.	0603	10 09	10 07 58.1			145 48	27 30		845302
34436	WOOMERA, AUSTR.	0603	10 09	10 10 17.2			137 42	16 30		845302
34437	WOOMERA, AUSTR.	0603	10 09	10 12 28.6			133 06	6 30		845302
34444	RUEBLA, MEX.	0900	10 09	10 42 26.2	3 21 30	-49 00				845043
34445	RUEBLA, MEX.	0900	10 09	10 45 25.9	4 26 54	-41 18				845043
34446	NEW ORLEANS, LA.	0030	10 09	10 52 35			180 00	41 00		845302
34447	NEW ORLEANS, LA.	0030	10 09	10 59 56			90 00	43 00		845302
36914	MADISON, WISC.	0148	10 09	11 00 00.0	8 48 30	-5 48				845042
34448	CHINA LAKE, CAL.	8588	10 09	12 56 29.6			134 37 12	44 16 12		845303
54333	TULEAR, MADAG.	6404	10 09	15 47 30.0			242 30	31 12		845309
54334	TULEAR, MADAG.	6404	10 09	15 48 00.0			236 00	23 42		845309
54335	TULEAR, MADAG.	6404	10 09	15 49 00.0			225 54	35 54		845309
54336	TULEAR, MADAG.	6404	10 09	15 50 00.0			196 30	37 00		845309
54337	TULEAR, MADAG.	6404	10 09	15 51 30.0			190 48	36 00		845309
54338	TULEAR, MADAG.	6404	10 09	15 52 00.0			182 30	34 18		845309
54339	TULEAR, MADAG.	6404	10 09	15 53 00.0			171 54	30 48		845309
54341	TULEAR, MADAG.	6404	10 09	15 56 00.0			151 00	18 42		845309
54342	TULEAR, MADAG.	6404	10 09	15 57 00.0			146 24	14 42		845309
54343	TULEAR, MADAG.	6404	10 09	15 58 00.0			142 42	11 12		845309
54344	TULEAR, MADAG.	6404	10 09	15 59 00.0			140 00	6 30		845309
54345	TULEAR, MADAG.	6404	10 09	16 00 00.0			137 24	5 18		845309
10823	OLIFANTSFTN, BN, S. AF	9002	10 09	17 54 08.00	15 46 30	-41 54				434023
54346	TULEAR, MADAG.	6404	10 09	17 56 30.0			204 42	14 30		845309
54347	TULEAR, MADAG.	6404	10 09	17 59 00.0			200 12	15 12		845309
54348	TULEAR, MADAG.	6404	10 09	18 00 00.0			192 36	16 12		845309
54349	TULEAR, MADAG.	6404	10 09	18 01 00.0			185 30	15 42		845309
54350	TULEAR, MADAG.	6404	10 09	18 02 00.0			178 00	16 06		845309
54351	TULEAR, MADAG.	6404	10 09	18 04 30.0			160 24	14 12		845309
54352	TULEAR, MADAG.	6404	10 09	18 05 00.0			157 00	13 30		845309
54353	TULEAR, MADAG.	6404	10 09	18 06 00.0			151 24	11 48		845309
54354	TULEAR, MADAG.	6404	10 09	18 07 00.0			146 00	10 00		845309
54355	TULEAR, MADAG.	6404	10 09	18 08 00.0			141 24	6 18		845309
54356	TULEAR, MADAG.	6404	10 09	18 10 00.0			132 54	4 30		845309
34559	SAPPORO, JAPAN	0245	10 09	18 51 21	7 15	-6				845002
54340	TULEAR, MADAG.	6404	10 09	19 55 30.0			254 06	21 00		845309
10839	AREQUIPA, BN, PERU	9007	10 09	23 46 04.61	14 47 42	-56 58				434023
10845	VILLA DOLORES, BN, ARG	9011	10 09	23 47 25.71	16 08 12	-49 28				434023
10841	SHIRAZ, BN, IRAN	9008	10 10	0 41 26.94	8 46 36	-1 56				434013
10846	VILLA DOLORES, BN, ARG	9011	10 10	1 55 03.17	16 41 42	-68 54				434023
10844	SAN FERNANDO, BN, SP.	9004	10 10	4 38 20.50	8 20 42	-8 52				434013
10847	VILLA DOLORES, BN, ARG	9011	10 10	8 17 07.81	4 17 00	28 24				434013
34449	PUEBLA, MEX.	0900	10 10	8 19 13.5	7 12 48	-41 18				845043
10840	AREQUIPA, BN, PERU	9007	10 10	8 20 47.29	4 06 24	27 55				434013
10842	CURACAO, BN, N.W.I.	9009	10 10	8 26 11.98	6 12 18	-6 55				434013
10843	JURITEH, BN, FLA.	9010	10 10	8 26 10.83	7 18 42	-24 13				434023
34585	SYDNEY, AUSTR.	0602	10 10	9 40 15.5	16 47 30	-49 06				845047
34586	SYDNEY, AUSTR.	0602	10 10	9 41 51.4	17 42	-67				845047
11545	ORGAN PASS, BN, N.W.	9001	10 10	10 16 13.50	10 11 30	10 05				434013
34450	PUEBLA, MEX.	0900	10 10	10 26 30.3	7 12 48	-7 39				845043
34451	PUEBLA, MEX.	0900	10 10	10 29 00.4	6 13 24	10 44				845043
34452	N. CANTON, OHIO	8559	10 10	10 32 15	6 36 10	-17 37				845033
34454	ROCHESTER, N.Y.	8564	10 10	10 33 28.1	6 46 18	-15 06				845043
10838	ORGAN PASS, BN, N.W.	9001	10 10	10 35 36.20	7 12 18	-47 23				434023
34455	ROCHESTER, N.Y.	8564	10 10	10 39 45.0	9 56 24	12 24				845042
34453	N. CANTON, OHIO	8565	10 10	10 42 38.5	11 45 00	21 10				845033
10849	WOOMERA, BN, AUSTR.	9003	10 10	11 39 18.04	13 50 24	-40 36				434023
34456	CHINA LAKE, CAL.	8588	10 10	12 31 22.0			133 03 00	40 55 12		845303
10848	WOOMERA, BN, AUSTR.	9003	10 10	13 50 44.29	3 51 00	-82 11				434023
10852	MAUI, BN, HAWAII	9012	10 10	14 21 36.13	6 11 18	-17 02				434013
53224	TULEAR, MDGSCR.	6404	10 10	17 32 30.0			211 54	15 12		845309
53225	TULEAR, MDGSCR.	6404	10 10	17 33 00.0			208 42	14 06		845309
53226	TULEAR, MDGSCR.	6404	10 10	17 34 00.0			211 18	15 54		845309
53227	TULEAR, MDGSCR.	6404	10 10	17 35 40.0			190 00	16 36		845309
53228	TULEAR, MDGSCR.	6404	10 10	17 36 00.0			186 12	16 48		845309
53229	TULEAR, MDGSCR.	6404	10 10	17 37 00.0			175 24	16 42		845309
53230	TULEAR, MDGSCR.	6404	10 10	17 38 00.0			171 00	15 54		845309
53231	TULEAR, MDGSCR.	6404	10 10	17 39 00.0			163 54	14 48		845309
53232	TULEAR, MDGSCR.	6404	10 10	17 40 00.0			157 30	13 24		845309
53233	TULEAR, MDGSCR.	6404	10 10	17 41 00.0			151 36	11 36		845309
53234	TULEAR, MDGSCR.	6404	10 10	17 42 00.0			146 18	9 54		845309
53235	TULEAR, MDGSCR.	6404	10 10	17 43 00.0			141 42	9 00		845309
53236	TULEAR, MDGSCR.	6404	10 10	17 44 00.0			137 24	5 54		845309
53237	TULEAR, MDGSCR.	6404	10 10	17 45 00.0			133 42	3 36		845309
34457	PASAY CITY, PHILS.	0501	10 10	20 16 59			104	66		845302
34560	KANAYA MACHI, JAPAN	0220	10 10	20 21 21	5 38	-9				845002
10850	NAINI TAL, BN, INDIA	9006	10 10	22 13 21.51	6 46 24	-28 37				434023
10858	VILLA DOLORES, BN, ARG	9011	10 10	23 25 17.16	17 17 36	-61 02				434023

OBS NO	STATION	STA NO	DATE	TIME	R. A.	DECL.	AZIMUTH	ALTITUDE	RANGE	INDIA
10860	SHIRAZ'BN, IRAN	9008	10 11	0 15 16.10	7 51 48	-9 31				434013
53347	EREVAN, USSR	1018	10 11	2 14 36.4	5 38 42	-20 36				845009
53348	EREVAN, USSR	1018	10 11	2 14 46.7	5 42 30	-20 00				845009
10859	VILLA DOLORES'BN, ARG	9011	10 11	3 36 36.88	21 07 00	-80 04				434023
54357	TAMANRASSET, ALG.	6412	10 11	4 03 00.0			213 00	19 36		845309
54358	TAMANRASSET, ALG.	6412	10 11	4 05 00.0			208 36	31 42		845309
54359	TAMANRASSET, ALG.	6412	10 11	4 06 00.0			204 30	40 42		845309
54360	TAMANRASSET, ALG.	6412	10 11	4 07 00.0			200 36	47 48		845309
54361	TAMANRASSET, ALG.	6412	10 11	4 08 00.0			193 24	56 00		845309
54362	TAMANRASSET, ALG.	6412	10 11	4 10 15.0			163 42	70 30		845309
54363	TAMANRASSET, ALG.	6412	10 11	4 11 25.0			119 00	73 00		845309
54364	TAMANRASSET, ALG.	6412	10 11	4 12 50.0			81 36	65 36		845309
10853	SAN FERNANDO'BN, SP.	9004	10 11	4 13 04.20	8 06 00	-10 52				434013
54365	TAMANRASSET, ALG.	6412	10 11	4 17 25.0			54 30	31 48		845309
10851	CURACAO'BN, N.W.I.	9009	10 11	7 59 28.47	5 30 42	-21 50				434013
34587	SYDNEY, AUSTR.	0602	10 11	9 12 45.9	15 57	-22 54				845047
34588	SYDNEY, AUSTR.	0602	10 11	9 14 55.5	16 32	-44 15				845047
34589	SYDNEY, AUSTR.	0602	10 11	9 16 36.9	17 26	-64 18				845047
34458	PUEBLA, MEX.	0900	10 11	10 00 27.6	6 41 48	-16 04				845043
10854	JUPITER'BN, FLA.	9010	10 11	10 03 42.76	4 57 30	-13 43				434013
34459	N. CANTON, OHIO	8565	10 11	10 06 59.4	6 33 10	-19 11				845033
34461	SILVER SPRING, MD.	0032	10 11	10 07 35.6			180	36 45 00		845036
34463	NEW ORLEANS, LA.	0030	10 11	10 10 18			90 00	37 00		845036
34464	CINCINNATI, OHIO	0050	10 11	10 10 33.4			126 30	36 18		845036
34462	SILVER SPRING, MD.	0032	10 11	10 10 48.4	7 48	2 30				845043
34460	N. CANTON, OHIO	8565	10 11	10 14 32.9	10 02 14	18 11				845033
34465	WOOMERA, AUSTR.	0603	10 11	11 14 30.7			231 00	21 00		845036
10856	WOOMERA'BN, AUSTR.	9003	10 11	11 18 38.87	15 28 18	-78 14				434023
34466	WOOMERA, AUSTR.	0603	10 11	11 19 37.0			188 24	30 18		845036
34590	SYDNEY, AUSTR.	0602	10 11	11 21 02.4	16 44	-68 48				845047
34467	WOOMERA, AUSTR.	0603	10 11	11 23 27.6			148 24	21 18		845036
34468	SACRAMENTO, CAL.	8517	10 11	12 05 18.5	7 47 48	-12 17				845013
34469	CHINA LAKE, CAL.	8588	10 11	12 06 08.1			322 23 24	37 56 12		845033
34470	DENVER, COLO.	8582	10 11	12 10 03.0			136 48	50 24		845033
34591	SYDNEY, AUSTR.	0602	10 11	13 23 20.4	18 25	-49 42				845047
34592	SYDNEY, AUSTR.	0602	10 11	13 26 08.8	20 06	-65 48				845047
10855	WOOMERA'BN, AUSTR.	9003	10 11	13 26 33.65	4 46 54	-73 10				434023
10870	MAUI'BN, HAWAII	9012	10 11	13 36 02.70	4 11 11	-21 39				434013
34680	KAGOSHIMA, JAPAN	0218	10 11	17 30 45.3	6 56	-33 54				845036
34678	MITAKA, JAPAN	0229	10 11	17 34 10.7			156 44	14 12		845033
34679	MITAKA, JAPAN	0229	10 11	17 34 14.0			145 48	17 36		845033
34686	KAGOSHIMA, JAPAN	0218	10 11	19 53 16	5 02	-22				845036
34685	TATSUSHIRO, JAPAN	0212	10 11	19 55 16			160 00	42 48		845036
34687	KAGOSHIMA, JAPAN	0218	10 11	19 55 35.3	5 58 30	-9 54				845036
34681	KONKO, JAPAN	0224	10 11	19 56 38.7	5 56 00	-9 54				845036
34682	KASHIWABARA, JAPAN	0222	10 11	19 56 51	5 47	-9				845036
34684	KANAGAWA, JAPAN	0219	10 11	19 58 17			182 00	75 00		845036
34683	KANAYA MACHI, JAPAN	0220	10 11	20 01 31	6 06	19				845036
34471	QUEZON CITY, PH. IS.	0500	10 11	20 10 50.8			216	36		845036
34472	QUEZON CITY, PH. IS.	0500	10 11	20 13 56.6			212	37		845036
34473	QUEZON CITY, PH. IS.	0500	10 11	20 26 35.6			167	61 30		845036
10857	NAINI TAL'BN, INDIA	9006	10 11	21 55 53.47	7 35 30	-16 02				434013
10854	SHIRAZ'BN, IRAN	9008	10 11	23 49 43.53	7 35 06	-11 51				434013
10895	SHIRAZ'BN, IRAN	9008	10 12	1 51 23.28	4 46 30	6 05				434013
34474	PUEBLA, MEX.	0900	10 12	9 35 36.4	6 44 54	-16 06				845043
10867	JUPITER'BN, FLA.	9010	10 12	9 38 36.26	4 59 36	-15 42				434013
34476	NEW ORLEANS, LA.	0030	10 12	9 45 21			90 00	34 00		845036
34593	SYDNEY, AUSTR.	0602	10 12	10 52 55.6	16 03	-44 36				845047
34477	WOOMERA, AUSTR.	0603	10 12	10 53 25.8	15 06	-78 54				845047
10861	WOOMERA'BN, AUSTR.	9003	10 12	10 53 36.36	15 13 30	-74 48				434023
34594	SYDNEY, AUSTR.	0602	10 12	10 55 19.4	16 19 30	-63 54				845047
34595	SYDNEY, AUSTR.	0602	10 12	10 56 51.1	16 42	-79 03				845047
34475	PUEBLA, MEX.	0900	10 12	11 39 05.9	5 55 48	-22 16				845043
34481	PHOENIX, ARIZ.	8576	10 12	11 41 46.7	10 14	-23 42				845043
34482	DENVER, COLO.	8586	10 12	11 43 21.0			146 15 00	46 00		845033
10862	WOOMERA'BN, AUSTR.	9003	10 12	13 00 40.39	4 43 42	-79 39				434023
10912	MAUI'BN, HAWAII	9012	10 12	13 31 12.74	6 19 00	-20 42				434013
34483	SACRAMENTO, CAL.	8517	10 12	13 41 14.0	5 43 24	-0 05				845013
34484	SACRAMENTO, CAL.	8517	10 12	13 43 53.0	6 41 30	16 22				845013
34693	KAGOSHIMA, JAPAN	0218	10 12	17 27 09	7 18	-26 18				845036
34688	SAPPORO, JAPAN	0245	10 12	17 33 41	7 49	-17				845036
34702	KAGOSHIMA, JAPAN	0218	10 12	19 28 19	5 02 30	-22 54				845036
34701	MIYAZAKI, JAPAN	0230	10 12	19 28 28.1	5 02 12	-22 06				845036
34695	KONKO, JAPAN	0224	10 12	19 31 09.3	5 51 00	-12 42				845036
34698	KANAYA MACHI, JAPAN	0220	10 12	19 31 34	5 45	-10				845036
34697	KASHIWABARA, JAPAN	0222	10 12	19 31 45	5 47	-10				845036
34696	YOKKAICHI, JAPAN	0228	10 12	19 32 03	5 45	-9 24				845036
34689	MITAKA, JAPAN	0229	10 12	19 32 08.1			197 12	43 00		845033
34690	MITAKA, JAPAN	0229	10 12	19 34 45.3			170 12	59 18		845033
34691	MITAKA, JAPAN	0229	10 12	19 36 51.0			123 48	63 12		845033
34692	MITAKA, JAPAN	0229	10 12	19 38 15.4			97 00	56 48		845033
34699	KANAYA MACHI, JAPAN	0220	10 12	19 41 27.3	11 14	32 24				845036
34700	SAPPORO, JAPAN	0245	10 12	19 41 55	10 17	21				845036
34694	ASAHIKAWA, JAPAN	0201	10 12	19 42 11.3	10 17 00	20 30				845036
10863	NAINI TAL'BN, INDIA	9006	10 12	21 44 41.28	7 00 12	-23 29				434013
10868	SHIRAZ'BN, IRAN	9008	10 12	23 24 06.86	7 18 54	-15 56				434013
10864	NAINI TAL'BN, INDIA	9006	10 12	23 33 50.82	7 31 18	-41 43				434013
10872	VILLA DOLORES'BN, ARG	9011	10 13	0 44 07.91	4 25 42	-66 35				434023
10869	SHIRAZ'BN, IRAN	9008	10 13	1 29 08.40	6 25 54	28 18				434013
53344	ACHKHABAD, USSR	1006	10 13	1 29 42.49	5 05 30	5 42				845009
53345	ACHKHABAD, USSR	1006	10 13	1 31 36.6	6 00 18	13 30				845009

OBS NO	STATION	STA NO	DATE	TIME	RA A	DEC	AZIMUTH	ALTITUDE	RANGE	WAVELENGTH
53240	ACHAHABAD, USSR	9006	10 13	1 32 47.2	7 40 48	26 30				845009
10871	VILLA COLLEGE, BONAIRE	9011	10 13	2 48 34.63	8 49 30	72 52				434023
53238	EL GULLA, ALG.	6417	10 13	3 21 00.0			139 94	40 00		845309
53237	EL GULLA, ALG.	6417	10 13	3 22 00.0			129 54	40 48		845309
10871	SAN FERNANDO, SP.	9004	10 13	3 22 40.60	7 44 24	-32 48				434013
53245	EL GULLA, ALG.	6417	10 13	3 23 00.0			118 12	40 18		845309
53241	EL GULLA, ALG.	6417	10 13	3 24 00.0			107 54	39 00		845309
53242	EL GULLA, ALG.	6417	10 13	3 25 00.0			78 00	36 18		845309
53243	EL GULLA, ALG.	6417	10 13	3 26 00.0			69 40	33 00		845309
53244	EL GULLA, ALG.	6417	10 13	3 27 00.0			63 06	29 36		845309
53197	SPEISAI, GREECE	8078	10 13	3 27 36			351 30	61 24		845309
53245	EL GULLA, ALG.	6417	10 13	3 28 00.0			77 12	25 48		845309
53246	EL GULLA, ALG.	6417	10 13	3 29 00.0			72 24	21 48		845309
53247	EL GULLA, ALG.	6417	10 13	3 30 00.0			78 36	18 36		845309
53198	SPEISAI, GREECE	8078	10 13	3 30 36			282 36	59 36		845309
53199	SPEISAI, GREECE	8078	10 13	3 31 48			254 00	39 00		845309
53200	SPEISAI, GREECE	8078	10 13	3 32 48			248 36	29 36		845309
53201	SPEISAI, GREECE	8078	10 13	3 33 48			245 00	21 36		845309
53202	SPEISAI, GREECE	8078	10 13	3 34 48			243 00	17 36		845309
53203	SPEISAI, GREECE	8078	10 13	3 35 48			241 12	11 00		845309
53204	SPEISAI, GREECE	8078	10 13	3 36 54			240 00	6 00		845309
10865	CORALAC, BONAIRE	9004	10 13	7 40 16.97	6 06 46	-16 12				434013
10866	PUEBLA, MEX.	9004	10 13	7 07 54.44	6 34 12	-19 20				434013
10876	JUPITER, FLA.	9010	10 13	7 13 35.26	5 05 24	-16 17				434013
10866	CORALAC, BONAIRE	9004	10 13	7 15 35.58	5 35 36	37 16				434013
34485	STATE COLLEGE, PA.	0066	10 13	7 20 52.1			138 06	37 12		845306
34486	N. CANTON, OHIO	0072	10 13	7 23 54.44	4 47 36	7 54				845306
34478	WOOMERA, AUSTR.	0063	10 13	10 27 20.7			203 00	30 48		845306
34479	WOOMERA, AUSTR.	0063	10 13	10 30 35.06	3 57 10	-74 52				845306
34479	WOOMERA, AUSTR.	0063	10 13	10 32 13.7			153 00	22 48		845306
34480	WOOMERA, AUSTR.	0063	10 13	10 34 44.7			147 24	21 36		845306
34487	DENVER, COLO.	0066	10 13	11 25 18.5			143 48	43 24		845306
34488	ST. PAUL, MINN.	0054	10 13	11 22 31						845306
34489	SACRAMENTO, CAL.	0017	10 13	11 27 22.1	10 40 42	14 03				845306
10911	MAUI, HAWAII	9012	10 13	13 07 43.54	6 56 06	-11 10				434013
34490	SACRAMENTO, CAL.	0017	10 13	13 26 15.0	5 47 30	-10 14				845306
34491	SACRAMENTO, CAL.	0017	10 13	13 28 19.7	7 45 54	14 42				845306
10910	MAUI, HAWAII	9012	10 13	13 29 10.41	6 33 24	36 30				434013
34707	KAGOSHIMA, JAPAN	0116	10 13	17 01 27.5	7 45 54	-15 42				845306
34706	KASHIYABARA, JAPAN	0122	10 13	17 01 46						845306
34703	MITAKA, JAPAN	0127	10 13	17 04 20.2			157 12	17 24		845306
34704	MITAKA, JAPAN	0127	10 13	17 06 17.2			152 48	15 36		845306
34705	MITAKA, JAPAN	0127	10 13	17 07 44.8			155 42	14 36		845306
10977	ULIFANT, ANTINANTAN, JAF	9002	10 13	18 17 40.40	14 31 24	-10 18				434013
34563	HSINGCHU, CHINA, TAIWAN	0125	10 13	18 26 25.3	6 05	-11 34				845306
34717	KAGOSHIMA, JAPAN	0116	10 13	18 01 34	5 22	-14 24				845306
34716	KATSUSHIRO, JAPAN	0121	10 13	18 01 16			150 00	31 36		845306
14718	MITAKA, JAPAN	0127	10 13	18 05 35.5			174 24	32 36		845306
34564	HSINGCHU, CHINA, TAIWAN	0125	10 13	18 06 12.0	7 24 30	1 00				845306
34713	KASHIYABARA, JAPAN	0122	10 13	18 05 21	5 45	-10				845306
34711	KATSUSHIRO, JAPAN	0121	10 13	18 01 37.0			153 00	40 00		845306
34714	KANAKA, MAUI, HAWAII	0125	10 13	18 24 36	7 45	8				845306
34710	TAIARUA, JAPAN	0125	10 13	18 12 47	7 48	7				845306
34709	MITAKA, JAPAN	0127	10 13	18 12 59.3			153 24	37 24		845306
34712	MUSASHINO, JAPAN	0123	10 13	18 13 33.6			150 00	40		845306
34710	MITAKA, JAPAN	0127	10 13	18 15 08.7			150 00	37 12		845306
10970	TOKYO, JAPAN	9005	10 13	18 17 47.20	10 15 48	12 10				434013
10978	ULIFANT, ANTINANTAN, JAF	9002	10 13	18 26 15.30	5 14 18	-10 18				845306
10979	SHIMAZU, JAPAN	9003	10 13	18 26 36.61	7 44 24	-12 31				434013
10975	NAINI, TAIWAN, TAIWAN	9006	10 13	18 26 33.77	7 30 54	19 36				434013
10974	VILLA COLLEGE, BONAIRE	9011	10 13	18 26 30.70	4 43 36	84 40				434013
10980	SHIMAZU, JAPAN	9003	10 13	18 26 36.06	6 14 06	12 41				434013
10973	VILLA COLLEGE, BONAIRE	9011	10 13	18 27 47.65	4 45 00	-103 52				434013
53235	SPEISAI, GREECE	8078	10 13	18 27 00			10 00	27 48		845309
10974	SAN FERNANDO, SP.	9004	10 13	18 27 16.40	4 32 12	-13 50				434013
53236	SPEISAI, GREECE	8078	10 13	18 28 35			11 36	29 36		845309
53237	SPEISAI, GREECE	8078	10 13	18 29 35			14 12	22 24		845309
53238	SPEISAI, GREECE	8078	10 13	18 30 37			6 54	19 36		845309
53239	SPEISAI, GREECE	8078	10 13	18 31 14			359 36	53 00		845309
53240	SPEISAI, GREECE	8078	10 13	18 32 32			359 36	49 00		845309
53241	SPEISAI, GREECE	8078	10 13	18 33 38			117 12	61 00		845309
53242	SPEISAI, GREECE	8078	10 13	18 34 35			117 36	57 00		845309
53243	SPEISAI, GREECE	8078	10 13	18 35 43			117 36	53 00		845309
53244	SPEISAI, GREECE	8078	10 13	18 36 37			109 00	40 24		845309
53245	SPEISAI, GREECE	8078	10 13	18 37 14			106 36	37 12		845309
53246	SPEISAI, GREECE	8078	10 13	18 38 14			106 36	32 48		845309
53247	SPEISAI, GREECE	8078	10 13	18 39 10			109 36	27 36		845309
53248	SPEISAI, GREECE	8078	10 13	18 40 14			106 00	24 36		845309
53249	SPEISAI, GREECE	8078	10 13	18 41 31			106 00	21 00		845309
53250	SPEISAI, GREECE	8078	10 13	18 42 34			106 00	18 00		845309
53251	SPEISAI, GREECE	8078	10 13	18 43 37			104 00	15 00		845309
53252	SPEISAI, GREECE	8078	10 13	18 44 10			104 12	10 00		845309
53253	SPEISAI, GREECE	8078	10 13	18 45 24			104 00	6 00		845309
53254	TAMANKASSET, ALG.	6412	10 13	18 45 10.0			102 00	12 36		845309
53255	TAMANKASSET, ALG.	6412	10 13	18 46 00.0			103 48	17 36		845309
53256	TAMANKASSET, ALG.	6412	10 13	18 46 50.0			103 12	13 24		845309
53257	BESANCON, FRANCE	6417	10 13	18 47 16.65			107 10	10 00		845309
10925	SAN FERNANDO, SP.	9004	10 13	18 47 14.40	7 06 36	10 11				434013
53258	TAMANKASSET, ALG.	6412	10 13	18 48 00.0			104 16	10 00		845309
53259	BESANCON, FRANCE	6417	10 13	18 48 53.17			109 48	10 00		845309
53260	BESANCON, FRANCE	6417	10 13	18 49 25.77			106 24	10 00		845309
53261	BESANCON, FRANCE	6417	10 13	18 49 57.64			101 16	10 00		845309
53262	BESANCON, FRANCE	6417	10 13	18 50 25.58			107 00	10 00		845309
53263	TAMANKASSET, ALG.	6412	10 13	18 50 43.0			104 48	10 00		845309

ONS NO	STATION	SEA NO	DATE	TIME	H. Az	DECCO	ALIMUTH	ALTITUDE	MARCS	INDEX
93313	BESANCON, FRANCE	2727	10 14	5 05 13.23			166 31	51 36		834309
93314	BESANCON, FRANCE	2727	10 14	5 06 00.33			154 48	53 40		834309
93315	BESANCON, FRANCE	2727	10 14	5 07 18.02			137 16	55 05		834309
93253	TAMANKASSET, ALG.	0412	10 14	5 07 45.0			22 12	75 42		849309
93316	BESANCON, FRANCE	2727	10 14	5 08 24.75			109 37	46 56		834309
93317	BESANCON, FRANCE	2727	10 14	5 09 22.85			102 47	43 33		834309
93254	TAMANKASSET, ALG.	0412	10 14	5 11 36.0			34 06	11 24		849309
93255	TAMANKASSET, ALG.	0412	10 14	5 12 42.0			36 34	1 12		849309
94562	PUEBLA, MEX.	0000	10 14	6 46 19.0	7 05 00	-9 51				849309
94492	N. CANTON, OHIO	0039	10 14	6 51 27.7	6 41 33	-17 11				849309
94494	N. CANTON, OHIO	0039	10 14	10 54 09			270 00	75 36		849309
94495	N. CANTON, OHIO	0039	10 14	10 55 45.2	5 12 10	1 03				849309
94496	CINCINNATI, OHIO	0039	10 14	11 03 54.5			11 40	50 16		849309
94496	FL. NORTH TEX.	0039	10 14	11 04 38.8	5 44 24	6 18				849309
10888	BOOMERANG, AUSTR.	0039	10 14	11 04 42.23	5 02 42	-80 13				849309
94497	CHINA LAKE, CAL.	0039	10 14	11 04 42.6			102 23 40	65 40 40		849309
10909	MAUI, HAWAII	0039	10 14	11 04 54.00	4 49 18	35 14				849309
10882	ULI-FAN-TAI, TAIWAN	0039	10 14	11 04 54.20	4 14 24	-60 00				849309
94505	HSINGCHU, TAIWAN	0039	10 14	11 04 54.20	6 09 42	-5 42				849309
94506	PASAY, PHILIP.	0039	10 14	11 04 54.20			70	30		849309
94506	HSINGCHU, TAIWAN	0039	10 14	11 04 54.20	7 30 36	1 54				849309
94718	MITAKA, JAPAN	0039	10 14	11 04 54.20			165 00	40 16		849309
94722	KANATA, JAPAN	0039	10 14	11 04 54.20	6 40	-6				849309
94724	KAGOSHIMA, JAPAN	0039	10 14	11 04 54.20	7 34 16	5 56				849309
94725	KASHI, JAPAN	0039	10 14	11 04 54.20	1 47	7				849309
94714	MITAKA, JAPAN	0039	10 14	11 04 54.20			143 24	54 40		849309
94720	MITAKA, JAPAN	0039	10 14	11 04 54.20			144 42	54 42		849309
94721	ANAHARA, JAPAN	0039	10 14	11 04 54.20	6 17 00	19 18				849309
10883	ULI-FAN-TAI, TAIWAN	0039	10 14	11 04 54.20	6 14	-79 20				849309
94707	HSINGCHU, TAIWAN	0039	10 14	11 04 54.20	3 35 30	15 06				849309
94706	HSINGCHU, TAIWAN	0039	10 14	11 04 54.20	3 06	41				849309
94725	TATSUNO, JAPAN	0039	10 14	11 04 54.20			0 00	65 40		849309
10899	SHIRAZ, IRAN	0039	10 14	11 04 54.20	7 15 16	-14 16				849309
10900	NAINI, IRAN	0039	10 14	11 04 54.20	6 42 00	18 50				849309
10900	VILLA COLUM, MEXICO	0039	10 14	11 04 54.20	4 15 06	-83 38				849309
10900	SHIRAZ, IRAN	0039	10 14	11 04 54.20	6 14 06	11 31				849309
93430	TACHIKAWA, JAPAN	0039	10 14	11 04 54.20	6 14 30	4 14				849309
93431	TACHIKAWA, JAPAN	0039	10 14	11 04 54.20	6 14 30	16 46				849309
93430	ANTONAGUSTAY, CHILE	0039	10 14	11 04 54.20	10 00	-62 18				849309
93431	ANTONAGUSTAY, CHILE	0039	10 14	11 04 54.20	10 33	-62 12				849309
93432	VILLA COLUM, MEXICO	0039	10 14	11 04 54.20	4 12 34	-64 41				849309
93433	SPEISAL, GREECE	0039	10 14	11 04 54.20			19 00	30 30		849309
93434	SPEISAL, GREECE	0039	10 14	11 04 54.20			15 06	34 34		849309
93435	SPEISAL, GREECE	0039	10 14	11 04 54.20			12 00	38 12		849309
93436	SPEISAL, GREECE	0039	10 14	11 04 54.20			8 30	42 00		849309
93437	SPEISAL, GREECE	0039	10 14	11 04 54.20			2 30	45 30		849309
93438	SPEISAL, GREECE	0039	10 14	11 04 54.20			358 00	40 00		849309
93439	SPEISAL, GREECE	0039	10 14	11 04 54.20			353 30	30 30		849309
93440	SPEISAL, GREECE	0039	10 14	11 04 54.20			347 30	22 12		849309
93441	SPEISAL, GREECE	0039	10 14	11 04 54.20			340 12	17 00		849309
93442	SPEISAL, GREECE	0039	10 14	11 04 54.20			327 48	10 30		849309
93443	SPEISAL, GREECE	0039	10 14	11 04 54.20			321 30	27 30		849309
93444	SPEISAL, GREECE	0039	10 14	11 04 54.20			281 42	22 30		849309
93445	SPEISAL, GREECE	0039	10 14	11 04 54.20			276 00	40 40		849309
93446	SPEISAL, GREECE	0039	10 14	11 04 54.20			264 12	41 30		849309
93447	SPEISAL, GREECE	0039	10 14	11 04 54.20			256 48	33 30		849309
93448	SPEISAL, GREECE	0039	10 14	11 04 54.20			253 06	17 12		849309
93449	SPEISAL, GREECE	0039	10 14	11 04 54.20			250 42	26 00		849309
93450	SPEISAL, GREECE	0039	10 14	11 04 54.20			248 34	12 34		849309
93451	SPEISAL, GREECE	0039	10 14	11 04 54.20			246 30	10 34		849309
93452	SPEISAL, GREECE	0039	10 14	11 04 54.20			244 12	14 00		849309
93453	SPEISAL, GREECE	0039	10 14	11 04 54.20			243 00	11 30		849309
93454	SPEISAL, GREECE	0039	10 14	11 04 54.20			176 35	12 31		831109
93455	BOCHUM, GERM.	0039	10 14	11 04 54.20	5 42 34	9 29				849309
93456	BOCHUM, GERM.	0039	10 14	11 04 54.20	5 42 36	10 30				849309
93457	MEUDON, FRANCE	0039	10 14	11 04 54.20	5 42 36	12 48	174 35	36 34		831109
93458	POTS DAM, GERM.	0039	10 14	11 04 54.20	5 42 36	12 48				834009
93459	POTS DAM, GERM.	0039	10 14	11 04 54.20	5 42 36	12 48				834009
93460	MEUDON, FRANCE	0039	10 14	11 04 54.20	5 42 36	12 48	164 35	36 45		831109
93461	POTS DAM, GERM.	0039	10 14	11 04 54.20	5 42 36	12 48				834009
93462	MEUDON, FRANCE	0039	10 14	11 04 54.20	5 42 36	12 48	157 00	41 34		831109
93463	MEUDON, FRANCE	0039	10 14	11 04 54.20	5 42 36	12 48	147 34	41 36		831109
93464	BOCHUM, GERM.	0039	10 14	11 04 54.20	7 40 21	4 06				849309
93465	POTS DAM, GERM.	0039	10 14	11 04 54.20	7 40 21	5 24				849309
93466	MEUDON, FRANCE	0039	10 14	11 04 54.20	7 40 21	5 24	134 31	41 47		831109
93467	POTS DAM, GERM.	0039	10 14	11 04 54.20	7 40 21	5 24				834009
93468	MEUDON, FRANCE	0039	10 14	11 04 54.20	7 40 21	5 24	123 34	41 07		831109
93469	MEUDON, FRANCE	0039	10 14	11 04 54.20	7 40 21	5 24	112 35	36 10		831109
93470	POTS DAM, GERM.	0039	10 14	11 04 54.20	7 40 21	5 24	104 25	34 47		831109
93471	MEUDON, FRANCE	0039	10 14	11 04 54.20	7 40 21	5 24	92 25	30 32		849309
93472	POTS DAM, GERM.	0039	10 14	11 04 54.20	7 40 21	5 24				834009
93473	MEUDON, FRANCE	0039	10 14	11 04 54.20	7 40 21	5 24	91 33	26 42		831109
10902	CORAL GABLES, FLA.	0039	10 14	11 04 54.20	5 42 36	12 48				849309
94507	BOOMERANG, AUSTR.	0039	10 14	11 04 54.20	5 42 36	12 48				849309
94508	NEW SHARANSA, LA.	0039	10 14	11 04 54.20	5 42 36	12 48	243 00	88 00		849309
94509	BOOMERANG, AUSTR.	0039	10 14	11 04 54.20	5 42 36	12 48	176 34	25 36		849309
94510	BOOMERANG, AUSTR.	0039	10 14	11 04 54.20	5 42 36	12 48				849309
94511	BOOMERANG, AUSTR.	0039	10 14	11 04 54.20	5 42 36	12 48	170 06	29 12		849309
94512	BOOMERANG, AUSTR.	0039	10 14	11 04 54.20	5 42 36	12 48	145 30	18 12		849309
94513	CHINA LAKE, CAL.	0039	10 14	11 04 54.20	5 42 36	12 48	151 03 00	78 49 12		849309
94514	HSINGCHU, TAIWAN	0039	10 14	11 04 54.20	5 42 36	12 48				849309

Obs No	STATION	STA NO	DATE	TIME	R. A.	DECL.	AZIMUTH	ALTITUDE	RANGE	INDEX
34790	MUSASHINO, JAPAN	0239	10 15	16 15 38.8				68 36		845302
34777	MITAKA, JAPAN	0229	10 15	18 15 59.7			177 48	39 24		845303
10893	IOKYOBN, JAPAN	9005	10 15	18 16 12.10	5 18 36	-13 58				845019
34607	TAIPEI, TAIWAN	0502	10 15	18 18 00.6	8 11	10 54				845042
34608	TAIPEI, TAIWAN	0502	10 15	18 19 07.1	8 34 12	18 12				845042
34728	MITAKA, JAPAN	0229	10 15	18 19 29.0			157 36	90 34		845303
34733	KASHIWABARA, JAPAN	0222	10 15	18 19 34	7 30	7				845002
34731	MUSASHINO, JAPAN	0233	10 15	18 19 34.4			135	51 00		845302
34734	TAKADA, JAPAN	0250	10 15	18 20 29	7 33	6				845002
34729	MITAKA, JAPAN	0229	10 15	18 22 27.1			98 06	44 18		845303
34732	MUSASHINO, JAPAN	0233	10 15	18 23 23.2			90	39 48		845302
10884	OLIFANTSFENTNBN, S.AFR.	9002	10 15	19 34 33.10	15 18 48	-66 58				845023
35159	PRETORIA, S.AFR.	8575	10 15	19 36 13.6	14 41	-78 54				845042
34739	KANAYA MACHI, JAPAN	0226	10 15	20 17 58	3 25	9				845002
34735	MITAKA, JAPAN	0229	10 15	20 19 17.7			258 24	36 18		845303
34736	MITAKA, JAPAN	0229	10 15	20 20 11.4			261 42	41 48		845303
34738	KASHIWABARA, JAPAN	0222	10 15	20 21 41	4 47	34				845003
34737	MITAKA, JAPAN	0229	10 15	20 23 50.3			304 30	66 34		845303
10893	NAINI TALBN, INDIA	9006	10 15	22 14 51.12	6 54 46	16 17				845013
10901	SHIRAZBN, IRAN	9006	10 16	0 14 27.87	7 48 06	26 46				845013
53432	STALINABAD, USSR	1068	10 16	0 15 15.0	5 06 36	9 24				845009
53433	STALINABAD, USSR	1068	10 16	0 16 29.4	7 04 00	30 30				845009
10908	VILLA DOLORISBN, ARG.	9011	10 16	1 27 25.07	13 51 54	-64 24				845023
53417	EREVAN, USSR	1018	10 16	1 54 24.7	8 30 30	40 18				845009
53418	EREVAN, USSR	1018	10 16	1 56 06.0	10 48 48	41 30				845009
53370	SPETSAL, GREECE	8078	10 16	2 08 01.0			35	37 30		845309
53371	SPETSAL, GREECE	8078	10 16	2 09 31.0			35	44 42		845309
53426	KRASNOVAR, USSR	1027	10 16	2 10 39.7	4 47	-13 06				845009
53372	SPETSAL, GREECE	8078	10 16	2 11 05.0			355 30	51 00		845309
53427	KRASNOVAR, USSR	1027	10 16	2 12 16.1	4 59	-7 12				845009
53373	SPETSAL, GREECE	8078	10 16	2 12 21.0			316 30	52 54		845309
53374	SPETSAL, GREECE	8078	10 16	2 13 45.0			295 00	51 00		845309
53419	EREVAN, USSR	1018	10 16	2 15 16.2	5 40 30	17 36				845009
53429	TBILISI, USSR	1053	10 16	2 16 14.1	5 44 12	21 48				845009
53420	EREVAN, USSR	1018	10 16	2 18 12.8	7 40 00	36 30				845009
53375	SPETSAL, GREECE	8078	10 16	2 20 22.0			249 00	40 30		845309
53428	HOSTOV, USSR	1044	10 16	2 21 46.5	10 40 30	24 00				845009
53376	SPETSAL, GREECE	8078	10 16	2 23 04.0			243 12	40 00		845309
53377	SPETSAL, GREECE	8078	10 16	2 24 58.0			240 36	40 00		845309
53267	MEUDON, FRANCE	2715	10 16	4 05 33.6			193 05	11 27		845109
53268	MEUDON, FRANCE	2715	10 16	4 06 31.7			194 05	10 09		845109
53269	MEUDON, FRANCE	2715	10 16	4 07 58.3			194 13	11 05		845109
53270	MEUDON, FRANCE	2715	10 16	4 08 31.5			194 56	11 05		845109
53271	MEUDON, FRANCE	2715	10 16	4 09 14.7			198 14	11 25		845109
53288	SAN FERNANDONBN, SP.	9004	10 16	4 09 58.50	6 46 46	8 46				845013
53272	MEUDON, FRANCE	2715	10 16	4 10 09.5			183 46	16 57		845109
53273	MEUDON, FRANCE	2715	10 16	4 11 34.3			177 36	16 14		845109
53274	MEUDON, FRANCE	2715	10 16	4 12 35.0			170 32	15 30		845109
53275	MEUDON, FRANCE	2715	10 16	4 13 39.8			160 22	15 32		845109
53318	EL GULEA, ALG.	6411	10 16	4 14 00.0			40 30	61 00		845309
53276	MEUDON, FRANCE	2715	10 16	4 14 07.4			150 17	15 14		845109
53319	EL GULEA, ALG.	6411	10 16	4 15 00.0			42 10	61 40		845309
53277	MEUDON, FRANCE	2715	10 16	4 15 09.7			150 35	15 45		845109
53320	EL GULEA, ALG.	6411	10 16	4 15 00.0			43 24	61 00		845309
53278	MEUDON, FRANCE	2715	10 16	4 16 08.8			127 34	15 51		845109
53321	EL GULEA, ALG.	6411	10 16	4 17 00.0			44 00	61 10		845309
53379	MEUDON, FRANCE	2715	10 16	4 17 12.6			116 31	15 34		845109
53322	EL GULEA, ALG.	6411	10 16	4 18 00.0			44 48	61 30		845309
53280	MEUDON, FRANCE	2715	10 16	4 18 34.7			158 34	15 45		845109
53281	MEUDON, FRANCE	2715	10 16	4 19 12.1			149 53	15 50		845109
53323	EL GULEA, ALG.	6411	10 16	4 20 00.0			46 00	61 00		845309
53282	MEUDON, FRANCE	2715	10 16	4 20 14.3			143 23	16 40		845109
53324	EL GULEA, ALG.	6411	10 16	4 21 00.0			46 40	61 00		845309
53283	MEUDON, FRANCE	2715	10 16	4 21 12.5			144 33	16 57		845109
53325	EL GULEA, ALG.	6411	10 16	4 22 00.0			47 00	61 30		845309
53284	MEUDON, FRANCE	2715	10 16	4 22 55.7			151 30	16 26		845109
53326	EL GULEA, ALG.	6411	10 16	4 23 00.0			47 18	61 42		845309
53285	MEUDON, FRANCE	2715	10 16	4 23 12.4			150 34	16 25		845109
10903	JUPITERBN, FLA.	9016	10 16	8 00 47.11	6 48 30	-1 49				845013
34500	MILWAUKEE, WISC.	0074	10 16	8 01 05.4			137 42	15 12		845304
34501	MILWAUKEE, WISC.	0074	10 16	8 05 06.8			124 12	16 11		845304
34502	MILWAUKEE, WISC.	0074	10 16	8 09 06.6			124 36	16 42		845304
34506	SYDNEY, AUST.	0002	10 16	9 11 37	14 58	-42 18				845047
34507	SYDNEY, AUST.	0002	10 16	9 13 13.9	15 07	-57 06				845047
34508	SYDNEY, AUST.	0002	10 16	9 15 16.1	15 12	-74 06				845047
34503	MILWAUKEE, WISC.	0074	10 16	10 04 42.5			173 36	16 36		845304
34504	MILWAUKEE, WISC.	0074	10 16	10 09 00.1			126 12	16 42		845304
34505	MILWAUKEE, WISC.	0074	10 16	10 13 04.8			130 30	16 42		845304
34509	SYDNEY, AUST.	0002	10 16	11 16 32	16 58	-66 42				845047
34516	TOWNSVILLE, AUSTR.	8576	10 16	11 24 28.1			149 43	11 30		845306
34509	SAN JOSE, CAL.	8573	10 16	11 59 30.2	5 12 31	-5 32				845002
34570	SAN JOSE, CAL.	8573	10 16	12 00 16.4	5 34 28	-1 13				845003
34574	STOANLE, WASH.	4142	10 16	12 03 33.0			174 24	14 24		845302
34506	CHINA LAKE, CAL.	3088	10 16	12 03 16.1			142 32 24	14 24 36		845303
34577	DENVER, COLO.	4982	10 16	12 04 27.4			129 30	14 18		845303
34505	SPOKANE, WASH.	8142	10 16	12 36 57.8			132 34	14 12		845302
10913	MAZATLAN, MEXICO	9012	10 16	13 53 12.11	5 42 34	8 12				845013
34506	SPOKANE, WASH.	8142	10 16	14 10 10.2			177 24 36	16 31 12		845302
34507	SPOKANE, WASH.	8142	10 16	14 10 22.7			176 45 30	16 35 00		845302
34617	TAIPEI, TAIWAN	0502	10 16	17 50 22.5	7 40	5				845042
34509	KAGOSHIMA, JAPAN	0218	10 16	17 51 56.8	7 08 30	0 00				845002
34510	KAGOSHIMA, JAPAN	0218	10 16	17 53 02.7	7 35 30	5 30				845002
35160	PRETORIA, S.AFR.	8575	10 16	19 11 42.8	10 58	-84 18				845042
10923	OLIFANTSFENTNBN, S.AFR.	9002	10 16	19 11 55.98	9 32 00	-84 15				845023

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53756	VLADIVOSTOK, USSR	1013	10 16	19 55 26.0	5 28 36	5 42				845009
53757	VLADIVOSTOK, USSR	1013	10 16	19 58 55.9	7 36 30	24 24				845009
10916	SHIRAZ, IRAN	9008	10 16	23 46 06.15	5 47 18	8 11				434013
53415	TACHKENT, USSR	1075	10 16	23 49 54.4	5 11 00	2 46				845009
53421	STALINABAD, USSR	1068	10 16	23 50 26.6	5 46 24	12 30				845009
53422	STALINABAD, USSR	1068	10 16	23 50 27.3	5 43 12	15 48				845009
53416	TACHKENT, USSR	1075	10 16	23 54 14.4	7 47 00	26 49				845009
15922	VILLA DOLORES, B.N.I.ARG.	9011	10 17	1 10 35.44	4 15 16	-27 25				434023
53327	EL GULEA, ALG.	6411	10 17	1 41 03.0				76 24	23 00	845009
53328	EL GULEA, ALG.	6411	10 17	1 42 00.3				90 12	21 12	845009
53329	EL GULEA, ALG.	6411	10 17	1 43 03.0				84 30	18 54	845009
53330	EL GULEA, ALG.	6411	10 17	1 44 00.0				80 06	16 18	845009
53331	EL GULEA, ALG.	6411	10 17	1 45 00.0				75 24	13 42	845009
53332	EL GULEA, ALG.	6411	10 17	1 46 03.3				71 54	11 06	845009
53378	SPETSAIL, GREECE	8078	10 17	1 46 06.0				321 24	48 30	845009
53333	EL GULEA, ALG.	6411	10 17	1 47 00.3				68 48	8 42	845009
53334	EL GULEA, ALG.	6411	10 17	1 48 00.0				65 24	6 00	845009
53379	SPETSAIL, GREECE	8078	10 17	1 48 31.0				289 42	44 30	845009
53423	KRASNOVAR, USSR	1027	10 17	1 53 42.6	8 42	22 00				845009
53380	SPETSAIL, GREECE	8076	10 17	1 56 26.3				246 00	13 00	845009
53381	SPETSAIL, GREECE	8076	10 17	1 58 04.3				243 00	7 00	845009
34610	ANTOFAGASTA, CHILE	0804	10 17	3 03 54.8	16 44	-57 36				845042
34611	ANTOFAGASTA, CHILE	0804	10 17	3 05 27.6	16 57	-59 10				845042
53286	MEUDON, FRANCE	2715	10 17	3 40 08.10				197 57	23 18	837109
53287	MEUDON, FRANCE	2715	10 17	3 41 11.10				194 49	16 39	837109
53288	MEUDON, FRANCE	2715	10 17	3 42 03.10				191 46	14 29	837109
53438	MEUDON, FRANCE	2715	10 17	3 43 17.60				186 20	23 39	837109
53439	MEUDON, FRANCE	2715	10 17	3 44 23.60				181 43	26 24	837109
10889	SAN FERNANDO, B.N.SP.	9004	10 17	3 44 18.10	6 40 00	5 51				434023
53335	EL GULEA, ALG.	6411	10 17	3 45 00.0				51 00	27 48	845009
53336	EL GULEA, ALG.	6411	10 17	3 46 00.0				50 00	29 10	845009
53289	MEUDON, FRANCE	2715	10 17	3 46 51.60				163 59	34 44	837109
53337	EL GULEA, ALG.	6411	10 17	3 47 00.0				49 16	41 30	845009
53290	MEUDON, FRANCE	2715	10 17	3 47 03.70				161 10	35 29	837109
53338	EL GULEA, ALG.	6411	10 17	3 48 00.0				49 00	34 42	845009
53291	MEUDON, FRANCE	2715	10 17	3 48 24.10				151 49	37 29	837109
53339	EL GULEA, ALG.	6411	10 17	3 49 00.0				49 00	29 00	845009
53292	MEUDON, FRANCE	2715	10 17	3 49 03.40				141 43	38 22	837109
53340	EL GULEA, ALG.	6411	10 17	3 50 00.0				48 24	25 48	845009
53293	MEUDON, FRANCE	2715	10 17	3 50 47.60				143 19	37 03	837109
53341	EL GULEA, ALG.	6411	10 17	3 51 00.0				48 24	19 30	845009
53294	MEUDON, FRANCE	2715	10 17	3 51 11.60				119 39	36 23	837109
53342	EL GULEA, ALG.	6411	10 17	3 51 00.0				48 24	24 46	845009
53295	MEUDON, FRANCE	2715	10 17	3 52 10.00				112 52	33 39	837109
53343	EL GULEA, ALG.	6411	10 17	3 53 00.0				49 00	20 00	845009
53296	MEUDON, FRANCE	2715	10 17	3 53 07.10				103 20	31 00	837109
53297	MEUDON, FRANCE	2715	10 17	3 54 01.70				97 04	27 48	837109
53298	MEUDON, FRANCE	2715	10 17	3 55 21.70				90 31	23 31	837109
53299	MEUDON, FRANCE	2715	10 17	3 56 08.10				86 42	20 07	837109
53300	MEUDON, FRANCE	2715	10 17	3 57 23.10				81 23	15 39	837109
53301	MEUDON, FRANCE	2715	10 17	3 58 08.70				78 36	12 25	837109
53302	MEUDON, FRANCE	2715	10 17	3 59 11.60				75 40	27 16	837109
53303	MEUDON, FRANCE	2715	10 17	3 59 18.10				73 34	31 17	837109
53304	MEUDON, FRANCE	2715	10 17	3 59 35.60				71 47	36 41	837109
53305	MEUDON, FRANCE	2715	10 17	3 59 41.10				70 00	41 30	837109
53306	MEUDON, FRANCE	2715	10 17	3 59 47.30				68 22	31 57	837109
53307	MEUDON, FRANCE	2715	10 17	3 59 54.70				66 34	60 24	837109
53440	MEUDON, FRANCE	2715	10 17	3 59 58.70				64 41	65 21	837109
53441	MEUDON, FRANCE	2715	10 17	3 59 59.10				62 49	71 08	837109
53442	MEUDON, FRANCE	2715	10 17	3 59 59.60				60 51	76 29	837109
53443	MEUDON, FRANCE	2715	10 17	3 59 59.90				58 41	83 21	837109
53444	MEUDON, FRANCE	2715	10 17	3 59 59.90				56 34	88 32	837109
10921	JUPITER, B.N.FLA.	9010	10 17	7 35 20.66	6 57 42	-0 43				434013
10917	JUPITER, B.N.FLA.	9010	10 17	7 35 48.65	6 48 24	2 02				434013
10918	JUPITER, B.N.FLA.	9010	10 17	7 36 08.97	6 57 18	3 38				434013
34618	PUEBLA, MEX.	0906	10 17	9 33 54.2	5 44 18	28 26				845043
10920	JUPITER, B.N.FLA.	9010	10 17	9 33 54.00	4 45 18	0 27				434013
34571	NEW ORLEANS, LA.	0036	10 17	9 36 52.5				90 00	78 00	845009
10919	JUPITER, B.N.FLA.	9010	10 17	9 38 10.79	4 44 00	-1 40				434013
34572	MADISON, WIS.	0149	10 17	9 38 46.3	6 44 00	-3 27				845042
34573	CINCINNATI, OHIO	8555	10 17	9 42 09.1	6 46 36	18 01				845003
34573	ROCHESTER, N.Y.	8564	10 17	9 43 40.4	7 13 48	21 41				845034
34620	ADELAIDE, AUST.	0600	10 17	9 54 25.4				153	35	845032
34621	WOOMERA, AUST.	0603	10 17	10 49 10	14 45	-65				845041
34626	WOOMERA, AUST.	9003	10 17	10 54 26.26	7 44 00	-55 00				434023
34574	CHINA LAKE, CAL.	8588	10 17	11 37 25.6				145 45 36	69 16 14	845033
34575	PUEBLA, MEX.	0906	10 17	11 37 44.7	4 40 18	49 43				845043
34575	CHINA LAKE, CAL.	0098	10 17	11 39 19.4				96 05 24	61 07 11	841303
54010	SPOKANE, WASH.	8142	10 17	11 39 22.3				121 24	39 06	845002
54011	SPOKANE, WASH.	8142	10 17	11 41 17.7				111 12	35 26	845002
54012	SPOKANE, WASH.	8142	10 17	11 48 34.6				61 06	16 30	845030
10925	WOOMERA, AUST.	9003	10 17	12 58 24.00	4 00 24	-58 16				434023
10974	MAUI, B.N.HAWAII	9042	10 17	13 41 08.04	4 41 46	-23 42				434013
35161	PRETORIA, S.AFR.	8525	10 17	16 44 59.3	4 02	-61 42				845041
34912	KAGOSHIMA, JAPAN	0218	10 17	17 25 47	6 49 12	-3 18				845002
34913	KAGOSHIMA, JAPAN	0218	10 17	17 26 37.5	7 07 12	-0 36				845002
34626	HSINGCHU CITY, TAIWAN	0505	10 17	17 27 30.0	8 19 24	13 42				845042
34911	YATSUSHIRO, JAPAN	0272	10 17	17 30 16				90 00	23 24	845002
34914	KAGOSHIMA, JAPAN	0218	10 17	17 31 12.8	8 51 00	17 48				845002
34916	KASHIWABARA, JAPAN	0222	10 17	18 30 36	4 57	32				845002
34917	MIYAZAKI, JAPAN	0230	10 17	18 34 41.3	9 49 00	54 30				845002
34915	YOKKAICHI, JAPAN	0258	10 17	18 41 34	13 03	41				845002
35162	PRETORIA, S.AFR.	8575	10 17	18 47 41.3	5 43	-75 00				845042
10924	OLIFANTSPRINT, B.N.S.AF.	9002	10 17	18 51 25.10	4 46 10	-48 42				434023

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34927	HSINGCHU CITY, TAIWAN	0209	10 17	19 27 04.8	5 43 24	39 18				845042
34928	KAGOSHIMA, JAPAN	0218	10 17	19 27 47	4 14	20 18				845002
34929	HSINGCHU CITY, TAIWAN	0209	10 17	19 28 30.4	5 34 12	41 18				845042
34930	VLADIVOSTOK, USSR	1011	10 17	19 30 07.9	5 33 36	6 00				845009
34931	YATSUSHIRO, JAPAN	0222	10 17	19 30 27			0 03	82 36		845302
34932	KANATA MACHI, JAPAN	0223	10 17	19 31 50	5 35	43				845002
34933	VLADIVOSTOK, USSR	1011	10 17	19 40 17.0	11 45 48	28 48				845009
34934	SAPPORO, JAPAN	0245	10 17	19 40 22.8	13 61	27 18				845002
34935	PRETORIA, S. AFR.	0075	10 17	19 40 25.8	17 31	-24 48				845042
34936	NAINI TALUK, INDIA	0006	10 17	21 22 07.42	4 03 18	3 33				434013
34937	ANTOFAGASTA, CHILE	0004	10 17	21 28 38	23	-84				434042
34938	SHIRAZ, IRAN	0006	10 17	23 20 26.23	6 03 48	7 10				434013
34939	STALINABAD, USSR	1008	10 17	23 24 40.11	5 14 17	8 12				845009
34940	STALINABAD, USSR	1008	10 17	23 26 52.1	6 42 24	23 30				845009
34941	NAINI TALUK, INDIA	0006	10 17	23 27 02.48	4 10 18	49 52				434013
34942	STALINABAD, USSR	1008	10 17	23 29 46.65	6 01 24	32 22				845009
34943	ERZURUM, TURK	0010	10 18	1 26 35.14	4 46 06	7 42				845009
34944	SPITAK, ARMENIA	0079	10 18	1 23 45.3			102 30	39 42		845302
34945	SPITAK, ARMENIA	0079	10 18	1 25 48.1			101 42	38 30		845302
34946	SHIRAZ, IRAN	0006	10 18	1 26 47.85	4 46 11	6 09				434042
34947	ERZURUM, TURK	0010	10 18	1 27 47.85	6 35 00	9 24				845009
34948	ERZURUM, TURK	0010	10 18	1 28 47.11	5 03 24	38 13				845009
34949	ERZURUM, TURK	0010	10 18	1 30 04.23	10 17 30	22 12				845009
34950	MELEK, ARMENIA	0079	10 18	1 35 26.19			188 31	18 48		845109
34951	MELEK, ARMENIA	0079	10 18	1 37 36.42			185 12	20 51		845109
34952	MELEK, ARMENIA	0079	10 18	1 38 26.60			180 39	24 16		845109
34953	MELEK, ARMENIA	0079	10 18	1 39 16.80			173 16	28 59		845109
34954	MELEK, ARMENIA	0079	10 18	1 40 07.00			167 10	30 40		845109
34955	MELEK, ARMENIA	0079	10 18	1 41 07.20			158 42	33 22		845109
34956	MELEK, ARMENIA	0079	10 18	1 42 07.40			151 36	34 30		845109
34957	MELEK, ARMENIA	0079	10 18	1 43 07.60			144 26	36 00		845109
34958	MELEK, ARMENIA	0079	10 18	1 44 07.80			137 21	37 34		845109
34959	MELEK, ARMENIA	0079	10 18	1 45 08.00	5 37 10	4 41				845009
34960	MELEK, ARMENIA	0079	10 18	1 46 08.20			129 47	34 20		845109
34961	MELEK, ARMENIA	0079	10 18	1 47 08.40	6 49 00	10 48				845009
34962	MELEK, ARMENIA	0079	10 18	1 48 08.60			122 40	33 44		845109
34963	MELEK, ARMENIA	0079	10 18	1 49 08.80	7 00 30	20 41				845009
34964	MELEK, ARMENIA	0079	10 18	1 50 09.00			115 26	29 23		845109
34965	MELEK, ARMENIA	0079	10 18	1 51 09.20			112 30	27 14		845109
34966	MELEK, ARMENIA	0079	10 18	1 52 09.40			104 20	24 32		845109
34967	MELEK, ARMENIA	0079	10 18	1 53 09.60			97 19	21 56		845109
34968	MELEK, ARMENIA	0079	10 18	1 54 09.80			90 16	19 17		845109
34969	MELEK, ARMENIA	0079	10 18	1 55 10.00			83 14	16 00		845109
34970	MELEK, ARMENIA	0079	10 18	1 56 10.20	11 45 00	4 35				845009
34971	MELEK, ARMENIA	0079	10 18	1 57 10.40			104 23	23 27		845109
34972	MELEK, ARMENIA	0079	10 18	1 58 10.60			103 39	20 36		845109
34973	MELEK, ARMENIA	0079	10 18	1 59 10.80			101 43	17 44		845109
34974	MELEK, ARMENIA	0079	10 18	2 00 11.00			99 46	14 53		845109
34975	MELEK, ARMENIA	0079	10 18	2 01 11.20			97 49	12 00		845109
34976	MELEK, ARMENIA	0079	10 18	2 02 11.40			95 52	9 06		845109
34977	MELEK, ARMENIA	0079	10 18	2 03 11.60			93 55	6 10		845109
34978	MELEK, ARMENIA	0079	10 18	2 04 11.80			91 58	3 14		845109
34979	MELEK, ARMENIA	0079	10 18	2 05 12.00			89 61	0 17		845109
34980	MELEK, ARMENIA	0079	10 18	2 06 12.20			87 64	-2 10		845109
34981	MELEK, ARMENIA	0079	10 18	2 07 12.40			85 67	-5 14		845109
34982	MELEK, ARMENIA	0079	10 18	2 08 12.60			83 70	-8 18		845109
34983	MELEK, ARMENIA	0079	10 18	2 09 12.80			81 73	-11 22		845109
34984	MELEK, ARMENIA	0079	10 18	2 10 13.00			79 76	-14 26		845109
34985	MELEK, ARMENIA	0079	10 18	2 11 13.20			77 79	-17 30		845109
34986	MELEK, ARMENIA	0079	10 18	2 12 13.40			75 82	-20 34		845109
34987	MELEK, ARMENIA	0079	10 18	2 13 13.60			73 85	-23 38		845109
34988	MELEK, ARMENIA	0079	10 18	2 14 13.80			71 88	-26 42		845109
34989	MELEK, ARMENIA	0079	10 18	2 15 14.00			69 91	-29 46		845109
34990	MELEK, ARMENIA	0079	10 18	2 16 14.20			67 94	-32 50		845109
34991	MELEK, ARMENIA	0079	10 18	2 17 14.40			65 97	-35 54		845109
34992	MELEK, ARMENIA	0079	10 18	2 18 14.60			63 100	-38 58		845109
34993	MELEK, ARMENIA	0079	10 18	2 19 14.80			61 103	-41 62		845109
34994	MELEK, ARMENIA	0079	10 18	2 20 15.00			59 106	-44 66		845109
34995	MELEK, ARMENIA	0079	10 18	2 21 15.20			57 109	-47 70		845109
34996	MELEK, ARMENIA	0079	10 18	2 22 15.40			55 112	-50 74		845109
34997	MELEK, ARMENIA	0079	10 18	2 23 15.60			53 115	-53 78		845109
34998	MELEK, ARMENIA	0079	10 18	2 24 15.80			51 118	-56 82		845109
34999	MELEK, ARMENIA	0079	10 18	2 25 16.00			49 121	-59 86		845109
35000	MELEK, ARMENIA	0079	10 18	2 26 16.20			47 124	-62 90		845109
35001	MELEK, ARMENIA	0079	10 18	2 27 16.40			45 127	-65 94		845109
35002	MELEK, ARMENIA	0079	10 18	2 28 16.60			43 130	-68 98		845109
35003	MELEK, ARMENIA	0079	10 18	2 29 16.80			41 133	-71 102		845109
35004	MELEK, ARMENIA	0079	10 18	2 30 17.00			39 136	-74 106		845109
35005	MELEK, ARMENIA	0079	10 18	2 31 17.20			37 139	-77 110		845109
35006	MELEK, ARMENIA	0079	10 18	2 32 17.40			35 142	-80 114		845109
35007	MELEK, ARMENIA	0079	10 18	2 33 17.60			33 145	-83 118		845109
35008	MELEK, ARMENIA	0079	10 18	2 34 17.80			31 148	-86 122		845109
35009	MELEK, ARMENIA	0079	10 18	2 35 18.00			29 151	-89 126		845109
35010	MELEK, ARMENIA	0079	10 18	2 36 18.20			27 154	-92 130		845109
35011	MELEK, ARMENIA	0079	10 18	2 37 18.40			25 157	-95 134		845109
35012	MELEK, ARMENIA	0079	10 18	2 38 18.60			23 160	-98 138		845109
35013	MELEK, ARMENIA	0079	10 18	2 39 18.80			21 163	-101 142		845109
35014	MELEK, ARMENIA	0079	10 18	2 40 19.00			19 166	-104 146		845109
35015	MELEK, ARMENIA	0079	10 18	2 41 19.20			17 169	-107 150		845109
35016	MELEK, ARMENIA	0079	10 18	2 42 19.40			15 172	-110 154		845109
35017	MELEK, ARMENIA	0079	10 18	2 43 19.60			13 175	-113 158		845109
35018	MELEK, ARMENIA	0079	10 18	2 44 19.80			11 178	-116 162		845109
35019	MELEK, ARMENIA	0079	10 18	2 45 20.00			9 181	-119 166		845109
35020	MELEK, ARMENIA	0079	10 18	2 46 20.20			7 184	-122 170		845109
35021	MELEK, ARMENIA	0079	10 18	2 47 20.40			5 187	-125 174		845109
35022	MELEK, ARMENIA	0079	10 18	2 48 20.60			3 190	-128 178		845109
35023	MELEK, ARMENIA	0079	10 18	2 49 20.80			1 193	-131 182		845109
35024	MELEK, ARMENIA	0079	10 18	2 50 21.00			-1 196	-134 186		845109
35025	MELEK, ARMENIA	0079	10 18	2 51 21.20			-3 199	-137 190		845109
35026	MELEK, ARMENIA	0079	10 18	2 52 21.40			-5 202	-140 194		845109
35027	MELEK, ARMENIA	0079	10 18	2 53 21.60			-7 205	-143 198		845109
35028	MELEK, ARMENIA	0079	10 18	2 54 21.80			-9 208	-146 202		845109
35029	MELEK, ARMENIA	0079	10 18	2 55 22.00			-11 211	-149 206		845109
35030	MELEK, ARMENIA	0079	10 18	2 56 22.20			-13 214	-152 210		845109
35031	MELEK, ARMENIA	0079	10 18	2 57 22.40			-15 217	-155 214		845109
35032	MELEK, ARMENIA	0079	10 18	2 58 22.60			-17 220	-158 218		845109
35033	MELEK, ARMENIA	0079	10 18	2 59 22.80			-19 223	-161 222		845109
35034	MELEK, ARMENIA	0079	10 18	3 00 23.00			-21 226	-164 226		845109
35035	MELEK, ARMENIA	0079	10 18	3 01 23.20			-23 229	-167 230		845109
35036	MELEK, ARMENIA	0079	10 18	3 02 23.40			-25 232	-170 234		845109
35037	MELEK, ARMENIA	0079	10 18	3 03 23.60			-27 235	-173 238		845109
35038	MELEK, ARMENIA	0079	10 18	3 04 23.80			-29 238	-176 242		845109
35039	MELEK, ARMENIA	0079	10 18	3 05 24.00			-31 241	-179 246		845109
35040	MELEK, ARMENIA	0079	10 18	3 06 24.20			-33 244	-182 250		845109
35041	MELEK, ARMENIA	0079	10 18	3 07 24.40			-35 247	-185 254		845109
35042	MELE									

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34922	KAGOSHIMA, JAPAN	0218	10 18	17 02 29	7 53 18	3 36				845002
34923	MITAKA, JAPAN	0219	10 18	17 02 32.0			128 24	39 24		845303
34923	MITAKA, JAPAN	0229	10 18	17 04 23.1			109 36	37 12		845303
34926	YATSUSHIRO, JAPAN	0272	10 18	17 04 29			90 00	20 30		845302
34933	OKYOJUN, JAPAN	9005	10 18	17 05 32.00	7 53 18	12 48				845013
34924	MITAKA, JAPAN	0229	10 18	17 05 42.3			98 18	33 42		845303
34925	SAPPORO, JAPAN	0245	10 18	17 09 25	8 50	12 24				845002
35164	PRETORIA, S.AFR.	8575	10 18	18 16 09.4	14 19	-58 12				845042
35165	PRETORIA, S.AFR.	8575	10 18	18 21 07.0	6 51	-80 06				845042
34936	OLIFANTFENTIN, S.AFR.	9002	10 18	18 24 27.10	4 35 06	-56 41				845023
34940	KAGOSHIMA, JAPAN	0218	10 18	19 02 16	4 25	21 36				845002
34928	MITAKA, JAPAN	0229	10 18	19 01 05.0			246 18	49 24		845303
34935	KANAYA MACHI, JAPAN	0220	10 18	19 03 37.0	4 22	22 48				845002
34939	MIYAZAKI, JAPAN	0240	10 18	19 03 51.3	5 12 00	32 36				845002
34938	YATSUSHIRO, JAPAN	0272	10 18	19 04 24			180 00	89 18		845302
34937	YAKADA, JAPAN	0256	10 18	19 04 25	7 26	20				845002
34929	MITAKA, JAPAN	0229	10 18	19 05 22.4			261 00	71 06		845303
34921	KHABAROVSK, USSR	1059	10 18	19 05 29.0			0 00	43 06		845309
34933	MUSASHINO, JAPAN	0233	10 18	19 06 08.6			270	78		845302
34934	MUSASHINO, JAPAN	0233	10 18	19 07 05.00			315	81 36		845302
34934	TOKYOJUN, JAPAN	9005	10 18	19 07 12.00	5 47 42	42 58				845013
34935	MITAKA, JAPAN	0229	10 18	19 08 37.4			31 30	71 24		845303
34936	KHABAROVSK, USSR	1059	10 18	19 08 43.3			326 00	49 48		845309
34931	MITAKA, JAPAN	0229	10 18	19 11 01.4			47 12	49 30		845303
34936	SAPPORO, JAPAN	0245	10 18	19 13 18	10 26	37 24				845002
34932	MITAKA, JAPAN	0229	10 18	19 20 23.4			56 36	3 24		845303
53769	ODESSA, USSR	1073	10 18	21 01 05.6	4 31 08	14 42				845009
53765	BLAGOVESHCHENSK, USSR	1010	10 18	21 06 10.2	4 47 00	6 30				845009
53770	ODESSA, USSR	1073	10 18	21 09 40.8	10 51 30	43 24				845009
34751	BAGUIO CITY, PH. IS.	0504	10 18	21 13 21			19 54	7 24		845302
53766	BLAGOVESHCHENSK, USSR	1010	10 18	21 13 41.3	4 41 00	30 30				845009
53939	SHIRAZ, IRAN	9008	10 18	22 57 22.42	7 10 36	19 16				845013
53766	STALINABAD, USSR	1068	10 18	22 57 55.0	4 52 06	2 12				845009
53787	STALINABAD, USSR	1068	10 18	23 04 28.6	5 23 30	10 18				845009
53788	STALINABAD, USSR	1068	10 18	23 00 25.2	6 14 06	17 12				845009
53789	STALINABAD, USSR	1068	10 18	23 02 57.2	7 57 06	29 24				845009
34613	ANTOFAGASTA, CHILE	0804	10 19	0 08 39.7	13 20	-64 11				845042
53775	EREVAN, USSR	1016	10 19	0 56 23.4	4 24 12	1 54				845009
53740	SHIRAZ, IRAN	9008	10 19	1 00 04.38	4 14 00	53 19				845013
53740	ASTRAKHAN, USSR	1005	10 19	1 03 03.4	7 51 12	22 00				845009
53791	ASTRAKHAN, USSR	1005	10 19	1 04 09.2	4 51 18	13 42				845009
53775	EREVAN, USSR	1016	10 19	1 04 09.7	4 26 24	36 42				845009
34614	ANTOFAGASTA, CHILE	0804	10 19	2 13 06.2	15 33	-63 40				845042
53779	ICHERNOVODSK, USSR	1062	10 19	2 59 14.1	5 34 18	9 06				845009
53780	ICHERNOVODSK, USSR	1062	10 19	3 00 19.1	6 07 48	14 12				845009
53771	ODESSA, USSR	1016	10 19	3 02 48.1	7 08 00	30 18				845009
53784	NICHINEV, USSR	1014	10 19	3 02 53.6	7 57 18	25 36				845009
53773	NIKOLAEV, USSR	1077	10 19	3 03 32.6	7 52 48	31 36				845009
53752	LVOD, USSR	1031	10 19	3 03 45.9	8 39 00	22 06				845009
53785	NICHINEV, USSR	1014	10 19	3 04 41.3	7 14 24	33 42				845009
53783	LVOD, USSR	1031	10 19	3 05 28.2	7 46 30	23 54				845009
53772	ODESSA, USSR	1016	10 19	3 05 32.6	7 12 00	36 12				845009
53781	ILV, USSR	1013	10 19	3 06 29.3	7 50 00	26 06				845009
53777	ILV, USSR	1010	10 19	3 06 38.6	10 52 18	25 18				845009
53778	ILV, USSR	1010	10 19	3 07 04.4	11 07 48	24 30				845009
53774	NIKOLAEV, USSR	1077	10 19	3 10 38.7	12 46 48	26 12				845009
53533	BESANCON, FRANCE	2747	10 19	5 00 39.34			214 54	67 53		845309
53534	BESANCON, FRANCE	2747	10 19	5 01 23.70			198 47	72 56		845309
53535	BESANCON, FRANCE	2747	10 19	5 02 50.53			137 10	75 37		845309
53536	BESANCON, FRANCE	2747	10 19	5 03 57.19			104 49	67 42		845309
53537	BESANCON, FRANCE	2747	10 19	5 04 49.46			94 25	59 52		845309
53538	BESANCON, FRANCE	2747	10 19	5 07 18.35			82 38	39 22		845309
34633	SILVER SPRING, MD.	0092	10 19	8 48 14.5	4 47 30	6 30				845002
34634	SILVER SPRING, MD.	0092	10 19	8 49 38.4			180	67		845302
34624	MOONRA, AUSTR.	0603	10 19	9 57 12.6	14 04	-59 00				845042
34625	MOONRA, AUSTR.	0603	10 19	10 03 08	5 50	-64 12				845042
34935	ORGAN PASS, N.M.	9001	10 19	10 46 53.00	4 54 00	31 02				845013
34635	PHOENIX, ARIZ.	8576	10 19	10 49 02.6	7 44	37 42				845043
10937	MOONRA, AUSTR.	9003	10 19	10 57 20.24	13 57 42	-59 59				845023
34636	MOONRA, AUSTR.	0603	10 19	11 58 49.1			224 36	9 18		845302
10943	MOONRA, AUSTR.	9003	10 19	12 07 07.07	4 42 30	-66 43				845023
34637	MOONRA, AUSTR.	0603	10 19	12 07 17.7			151 24	42 18		845302
34638	MOONRA, AUSTR.	0603	10 19	12 08 42.6			131 12	39 56		845302
34639	CHINA LAKE, CAL.	0098	10 19	12 47 14.8			276 37	36 45 00		845303
34640	SACRAMENTO, CAL.	8577	10 19	12 50 49.0			0 00	79 14		845304
54889	SPOKANE, WASH.	8142	10 19	12 50 51.5			266 18	60 36		845309
54886	SPOKANE, WASH.	8142	10 19	12 52 04.9			180 00	66 39 36		845309
34641	SACRAMENTO, CAL.	8517	10 19	14 56 52.8			0 00	54 28		845304
53719	TULEAR, MOGGER.	6404	10 19	15 49 36.3			184 00	12 42		845309
53720	TULEAR, MOGGER.	6404	10 19	15 50 00.6			178 42	12 48		845309
53721	TULEAR, MOGGER.	6404	10 19	15 51 30.0			171 24	13 12		845309
53722	TULEAR, MOGGER.	6404	10 19	15 52 09.6			163 48	12 24		845309
53723	TULEAR, MOGGER.	6404	10 19	15 53 00.0			156 42	11 30		845309
34941	KAGOSHIMA, JAPAN	0218	10 19	16 40 36	8 46	17 00				845002
34943	KAGOSHIMA, JAPAN	0218	10 19	18 37 53	5 23 30	30 36				845002
34943	KANAYA MACHI, JAPAN	0220	10 19	18 39 02	5 12	30 24				845002
34942	KASHIABARA, JAPAN	0222	10 19	18 40 13	5 56	37				845002
34944	SAPPORO, JAPAN	0245	10 19	18 50 17.4	11 26	31 30				845002
34755	QUEZON CITY, PH. IS.	0500	10 19	20 34 40			310	22		845302
34947	KAGOSHIMA, JAPAN	0218	10 19	20 36 54	2 10	20 54				845002
34756	QUEZON CITY, PH. IS.	0500	10 19	20 38 02			331	21 30		845302
34752	BAGUIO CITY, PH. IS.	0504	10 19	20 39 39			340 31 48	22 15 00		845302
34757	QUEZON CITY, PH. IS.	0500	10 19	20 44 00			5	14		845302
34642	TAIPEI, TAIWAN	0502	10 19	20 44 22.3	10 54	80 30				845042

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34946	KASHIWARA, JAPAN	0222	10 19	20 47 20			0 00			845002
34753	BAGUIO CITY, PHILS	0504	10 19	20 48 17			44 06	13 37 48		845002
10945	NAINI TALIB, INDIA	9006	10 19	22 38 09.23	7 15 12	63 45				845013
53975	STALINABAD, USSR	1047	10 19	22 39 34.9	4 20 30	33 36				845009
53976	STALINABAD, USSR	1047	10 19	22 42 16.5	4 40 30	31 54				845009
53977	STALINABAD, USSR	1047	10 19	22 43 30.2	4 15 00	30 36				845009
53997	STALINABAD, USSR	1047	10 20	0 16 48.6	9 51 00	60 06				845009
53999	STALINABAD, USSR	1047	10 20	0 17 44.6	10 28 10	57 00				845009
53998	STALINABAD, USSR	1047	10 20	0 18 59.6	11 48 18	51 48				845009
53970	ERLANG, USSR	1018	10 20	0 31 34.4	4 50 42	6 06				845009
10953	SHERAZEN, IRAN	9008	10 20	0 34 19.6	5 49 30	59 44				845013
53970	STALINABAD, USSR	1068	10 20	0 34 45.7	5 03 11	19 36				845009
53801	EREVAN, USSR	1015	10 20	0 35 42.6	7 45 00	10 36				845009
53793	TASHKENT, USSR	1052	10 20	0 36 46.4	5 50 00	31 42				845009
53792	STALINABAD, USSR	1053	10 20	0 36 46.4	6 01 00	27 14				845009
53791	STALINABAD, USSR	1058	10 20	0 36 56.1	4 42 30	47 14				845009
53794	TASHKENT, USSR	1052	10 20	0 38 42.6	5 05 00	40 48				845009
53796	SAMARKAND, USSR	1043	10 20	0 39 34.6	6 22 30	59 18				845009
53792	STALINABAD, USSR	1066	10 20	0 42 45.0	7 18 18	63 48				845009
53795	TASHKENT, USSR	1051	10 20	0 45 05.0	11 43 30	48 06				845009
34758	ANTOFAGASTA, CHILE	0804	10 20	1 47 49.6	19 20 36	67 18				845042
56435	POTSAM, GER.	2729	10 20	2 30 34.4	5 3 36	8 35				845049
56436	POTSAM, GER.	2729	10 20	2 31 47.1	6 01 14	14 36				845049
53797	RUSTOV, USSR	1041	10 20	2 34 34.1	4 19 00	12 00				845009
56037	POTSAM, GER.	2729	10 20	2 35 01.1	7 15 42	6 04				845049
53802	TCHERNOMIR, USSR	1062	10 20	2 35 11.1	6 35 10	16 14				845009
53798	RUSTOV, USSR	1041	10 20	2 35 49.7	5 00 00	19 42				845009
53803	TCHERNOMIR, USSR	1062	10 20	2 36 44.2	7 11 20	20				845009
54799	RUSTOV, USSR	1041	10 20	2 38 51.1	7 01 30	34 41				845009
10944	SAN FERNANDO, SP.	9004	10 20	4 31 44.70	5 54 18	44 47				845013
10946	CURACAO, N.W.I.	9009	10 20	8 21 49.80	1 44 18	76 18				845013
10948	JUPITER, FLA.	9010	10 20	8 25 18.9	7 46 36	52 46				845013
10947	ORGAN, MASSACHUSETTS, U.S.A.	9001	11 20	10 21 49.00	9 16 18	57 04				845013
34646	DENVER, COLO.	8581	10 20	10 24 24.0			115 45 00	65 45 00		845002
10949	JUPITER, FLA.	9011	10 20	10 24 18.60	2 02 30	44 28				845013
34648	WOMERA, AUSTR.	8603	10 20	11 38 05.7			166 24	54 10		845002
34649	WOMERA, AUSTR.	8603	10 20	11 40 10.0			166 06	50 30		845002
34650	WOMERA, AUSTR.	8603	10 20	11 41 02.3			165 30	59 10		845002
10950	WOMERA, AUSTR.	8603	10 20	11 44 19.00	3 33 45	106 19				845023
34651	SACRAMENTO, CAL.	8517	10 20	12 24 17.4			0 00	85 28		845004
34647	DENVER, COLO.	8582	10 20	12 32 11.4			72 45 00	50 15 00		845003
34652	SACRAMENTO, CAL.	8517	10 20	14 30 49.0			0 00	50 13		845004
34951	KAGOSHIMA, JAPAN	0218	10 20	16 16 31	6 55	16 35				845002
53877	TULEAR, MADAG.	6404	10 20	17 50 00.0			138 18	19 40		845009
34749	KASHIWARA, JAPAN	0221	10 20	18 13 11						845002
34950	KANATA, MACHI, JAPAN	0221	10 20	18 14 10.4	9 13	35 48				845002
34951	KAGOSHIMA, JAPAN	0218	10 20	18 14 10.4	9 13 30	35 38				845013
34952	KAGOSHIMA, JAPAN	0218	10 20	18 16 11	8 52	43 00				845002
34953	KAGOSHIMA, JAPAN	0258	10 20	18 19 57	10 10	44				845002
34954	SAPPORO, JAPAN	0245	10 20	18 20 49.4	9 26	43 36				845002
34955	KAGOSHIMA, JAPAN	0218	10 20	20 11 26	4 04	23 12				845002
34643	TAIPEI, TAIWAN	0501	10 20	20 11 55.5	2 09	47 06				845042
34644	TAIPEI, TAIWAN	0502	10 20	20 14 26.5	3 11 30	66 14				845042
34957	KANATA, MACHI, JAPAN	0220	10 20	20 16 54.1	3 11	45 14				845002
34956	KASHIWARA, JAPAN	0222	10 20	20 17 11	3 11	50				845002
34955	KAGOSHIMA, JAPAN	0255	10 20	20 17 32	3 20	50				845002
34954	KONBU, JAPAN	0224	10 20	20 18 19.8	4 11 00	61 42				845002
34645	TAIPEI, TAIWAN	0502	10 20	20 20 16.9	2 26 30	69 06				845042
35166	PRETORIA, S. AFR.	8575	10 20	20 21 42.7	17 23	60 42				845042
10952	NAINI TALIB, INDIA	9006	10 20	22 10 41.20	5 43 06	54 58				845013
53724	SPETSAL, GREECE	8078	10 21	0 06 55.5			175 10	10 00		845009
53942	ASTRAKHAN, USSR	1005	10 21	0 08 16.1	5 44 11	4 48				845009
10955	SHERAZEN, IRAN	9008	10 21	0 08 51.50	5 38 06	51 56				845013
53725	SPETSAL, GREECE	8078	10 21	0 09 18.5			162 06	10 42		845009
53716	SPETSAL, GREECE	8078	10 21	0 10 31.5			157 00	17 00		845009
53981	SAMARKAND, USSR	1043	10 21	0 12 28.7	5 08 30	44 36				845009
53727	SPETSAL, GREECE	8078	10 21	0 12 31.5			150 30	11 06		845009
53973	EREVAN, USSR	1018	10 21	0 13 09.3	9 34 36	32 06				845009
53778	SPETSAL, GREECE	8078	10 21	0 13 26.0			148 00	8 42		845009
53974	EREVAN, USSR	1018	10 21	0 13 44.9	9 53 12	31 04				845009
53729	SPETSAL, GREECE	8078	10 21	0 14 17.0			146 00	6 06		845009
53978	TASHKENT, USSR	1052	10 21	0 14 59.7	7 47 00	54 36				845009
53740	SPETSAL, GREECE	8078	10 21	0 15 30.4			143 12	3 06		845009
53979	TASHKENT, USSR	1052	10 21	0 15 54.1	8 14 00	54 11				845009
53980	TASHKENT, USSR	1052	10 21	0 16 42.8	7 12 00	54 12				845009
53982	SAMARKAND, USSR	1043	10 21	0 16 56.1	9 57 24	55 54				845009
34759	ANTOFAGASTA, CHILE	0804	10 21	1 28 02.9	5 13 54	62 40				845042
34760	ANTOFAGASTA, CHILE	0804	10 21	1 29 38	4 00	47				845042
53693	MEUDON, FRANCE	2715	10 21	2 04 11.00			144 10	20 18		847109
53694	MEUDON, FRANCE	2715	10 21	2 05 16.40			145 37	19 05		847109
53695	MEUDON, FRANCE	2715	10 21	2 06 01.10			149 49	17 43		847109
53696	KRASNODAR, USSR	1027	10 21	2 06 09.4	5 37	26 24				845009
53697	MEUDON, FRANCE	2715	10 21	2 07 18.80			149 24	20 42		847109
53698	MEUDON, FRANCE	2715	10 21	2 08 10.60			142 33	27 12		847109
53699	SPETSAL, GREECE	8078	10 21	2 08 45.5			140 46	23 48		845009
53699	KRASNODAR, USSR	1027	10 21	2 08 54.1	4 44	19 36				845009
53698	MEUDON, FRANCE	2715	10 21	2 09 28.10			143 50	24 36		847109
53732	SPETSAL, GREECE	8078	10 21	2 10 18.5			138 40	28 14		845009
53699	MEUDON, FRANCE	2715	10 21	2 10 18.60			148 44	22 57		847109
53700	MEUDON, FRANCE	2715	10 21	2 11 06.20			141 17	20 40		847109
53733	SPETSAL, GREECE	8078	10 21	2 12 02.0			138 00	24 18		845009
53701	MEUDON, FRANCE	2715	10 21	2 12 08.40			141 11	17 38		847109
53702	MEUDON, FRANCE	2715	10 21	2 13 05.70			142 31	15 16		847109

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53993	ROSTOV, USSR	1041	10 21	2 14 00.4	7 58 42	36 42				845008
53703	MEUDON, FRANCE	2715	10 21	2 14 08.50			81 02	12 18		845109
53734	SPETSAL, GREECE	8078	10 21	2 14 18.5			237 56	29 30		845308
53735	SPETSAL, GREECE	8078	10 21	2 15 47.3			238 00	22 00		845308
53736	SPETSAL, GREECE	8078	10 21	2 18 34.5			238 06	18 62		845309
53737	SPETSAL, GREECE	8078	10 21	2 17 29.8			238 06	15 00		845308
53738	SPETSAL, GREECE	8078	10 21	2 18 09.8			238 12	12 18		845309
53739	SPETSAL, GREECE	8078	10 21	2 19 24.3			238 24	8 00		845308
53740	SPETSAL, GREECE	8078	10 21	2 20 14.5			238 30	6 12		845309
53741	SPETSAL, GREECE	8078	10 21	2 21 07.5			238 36	3 00		845308
53994	ROSTOV, USSR	1041	10 21	2 21 39.7	12 50 18	22 50				845009
53742	SPETSAL, GREECE	8078	10 21	4 06 49.5			108 24	32 24		845309
53743	SPETSAL, GREECE	8078	10 21	4 08 39.5			119 36	41 24		845309
53744	SPETSAL, GREECE	8078	10 21	4 10 50.5			130 18	47 00		845309
53745	SPETSAL, GREECE	8078	10 21	4 12 12.5			147 48	32 12		845309
53746	SPETSAL, GREECE	8078	10 21	4 13 37.5			171 48	54 00		845309
53747	SPETSAL, GREECE	8078	10 21	4 14 46.5			189 24	32 00		845309
53748	SPETSAL, GREECE	8078	10 21	4 15 56.5			204 56	48 18		845309
53749	SPETSAL, GREECE	8078	10 21	4 18 12.5			224 12	33 24		845309
34653	ST. PETERSBURG, FLA.	0121	10 21	7 59 40	9 09	43 35				845032
34654	ST. PETERSBURG, FLA.	0121	10 21	8 01 50	10 08	44 05				845032
34219	MADISON, WISC.	9070	10 21	9 55 39.0	3 22 24	2 01				845067
10955	ORGAN PASS'BN, N.M.	9001	10 21	9 36 20.40	6 01 86	35 07				845013
34655	DENVER, COLO.	8582	10 21	10 00 04.8			90 30	51 43 00		845303
10954	JUPITER'BN, FLA.	9010	10 21	10 00 50.16	2 29 42	62 47				845013
34740	CINCINNATI, OHIO	8555	10 21	10 02 38			359 18	77 12		845302
34657	FT. BELVOIR, VA.	0077	10 21	10 05 09.0			315 54	66 18		845302
34658	SILVER SPRING, MD.	0082	10 21	10 04 45.8			0	68		845502
34659	SILVER SPRING, MD.	0032	10 21	10 07 53.6	11 00	57 50				845002
34742	PHOENIX, ARIZ.	8576	10 21	10 36 40.1	2 55	38 18				845045
34743	PHOENIX, ARIZ.	8576	10 21	11 06 46.4	12 42	52 00				845043
34767	MELBOURNE, AUSTR.	0604	10 21	11 15 18			180	69		845302
34761	WOOMERA, AUSTR.	0603	10 21	11 18 12.0			119 00	28 36		845502
10957	WOOMERA'BN, AUSTR.	9003	10 21	11 19 23.10	3 33 42	-29 05				845023
34762	WOOMERA, AUSTR.	0603	10 21	11 19 23.3			110 18	24 00		845302
34662	SACRAMENTO, CAL.	8517	10 21	11 57 57.9			0 00	88 07		845304
34663	CHINA LAKE, CAL.	8588	10 21	11 58 28.2			333 37 12	71 22 48		845303
34664	CHINA LAKE, CAL.	0098	10 21	11 58 28.5			333 37 12	71 07 48		845303
10956	ORGAN PASS'BN, N.M.	9001	10 21	11 59 12.60	2 55 36	52 43				845013
34656	DENVER, COLO.	8582	10 21	12 00 31.8			294 00	60 45 00		845303
34766	ADELAIDE, AUSTR.	0600	10 21	13 14 35.4			246 15	30		845502
34663	SACRAMENTO, CAL.	8517	10 21	14 04 33.3			0 00	56 14		845304
34959	MITAKA, JAPAN	0229	10 21	15 50 06.4			86 06	19 42		845303
34960	MITAKA, JAPAN	0229	10 21	15 51 32.3			79 36	15 54		845303
34961	MITAKA, JAPAN	0229	10 21	15 52 49.4			74 48	12 24		845303
34962	SAPPORO, JAPAN	0245	10 21	15 53 22.2	8 44	12 12				845002
53861	TULEAR, MADAG.	6404	10 21	17 00 30.0			192 24	11 18		845309
53862	TULEAR, MADAG.	6404	10 21	17 01 00.0			189 24	12 18		845309
53863	TULEAR, MADAG.	6404	10 21	17 02 00.0			162 42	24 18		845309
53864	TULEAR, MADAG.	6404	10 21	17 03 00.0			175 30	16 18		845309
53865	TULEAR, MADAG.	6404	10 21	17 04 00.0			167 18	17 54		845309
53866	TULEAR, MADAG.	6404	10 21	17 05 00.0			158 48	18 36		845309
53867	TULEAR, MADAG.	6404	10 21	17 06 00.0			150 42	18 54		845309
53868	TULEAR, MADAG.	6404	10 21	17 07 00.0			142 12	18 18		845309
53869	TULEAR, MADAG.	6404	10 21	17 08 00.0			134 30	17 18		845309
53870	TULEAR, MADAG.	6404	10 21	17 09 00.0			127 30	15 48		845309
53871	TULEAR, MADAG.	6404	10 21	17 10 00.0			124 42	13 54		845309
10966	TOKYO'BN, JAPAN	9005	10 21	17 48 25.50	5 15 42	30 12				845013
34963	MITAKA, JAPAN	0229	10 21	17 48 31.7			136 36	63 48		845303
34964	MITAKA, JAPAN	0229	10 21	17 50 12.8			70 06	70 18		845303
34965	MITAKA, JAPAN	0229	10 21	17 51 38.5			62 30	57 00		845303
34967	SAPPORO, JAPAN	0245	10 21	17 54 40.0	9 08	31 24				845002
34966	ASAHIKAWA, JAPAN	0201	10 21	17 59 13.2	11 29	29 18				845002
53872	TULEAR, MADAG.	6404	10 21	19 05 30.0			207 06	17 54		845309
53873	TULEAR, MADAG.	6404	10 21	19 06 00.0			205 30	25 00		845309
53874	TULEAR, MADAG.	6404	10 21	19 07 00.0			201 36	29 54		845309
53875	TULEAR, MADAG.	6404	10 21	19 08 00.0			196 48	31 54		845309
53876	TULEAR, MADAG.	6404	10 21	19 09 00.0			90 06	38 18		845309
53995	BLAGOVESHCHENSK, USSR	1010	10 21	19 50 34.8	5 25 00	12 36				845009
34973	KASHIWABARA, JAPAN	0222	10 21	19 51 06	3 13	51				845002
10967	TOKYO'BN, JAPAN	9005	10 21	19 51 51.10	3 07 24	48 30				845013
34968	MITAKA, JAPAN	0229	10 21	19 51 55.8			307 06	45 54		845303
34971	ASAHIKAWA, JAPAN	0201	10 21	19 53 56.2	5 00 00	41 30				845002
53969	MITAKA, JAPAN	0229	10 21	19 55 02.4			350 30	52 24		845303
53996	BLAGOVESHCHENSK, USSR	1010	10 21	19 56 30.0	9 30 00	7 12				845009
34754	BAGUIO CITY, PHILS.	0504	10 21	19 56 53.2			28 06	5 12		845302
34970	MITAKA, JAPAN	0229	10 21	19 57 41.5			24 48	43 36		845303
34974	KAMAYA MACHI, JAPAN	0220	10 21	19 58 14	12 50	56				845002
34972	YOKKAICHI, JAPAN	0258	10 21	19 59 28	12 48	55				845002
34975	SAPPORO, JAPAN	0245	10 21	19 59 58.2	11 33	46 54				845002
10968	NAIMI TAL'BN, INDIA	9006	10 21	21 44 27.62	5 42 48	51 34				845013
53986	TCHITA, USSR	1064	10 21	21 54 24.0	7 22 30	27 36				845009
53987	TASHKENT, USSR	1052	10 21	23 31 24.1	4 56 00	37 48				845009
10970	SHIRAZ'BN, IRAN	9008	10 21	23 42 25.46	4 59 06	51 40				845013
53990	BATUMI, USSR	1009	10 21	23 43 59.4	29 73	48 36				845009
53988	EREVAN, USSR	1018	10 21	23 44 26.3	7 41 00	25 48				845009
54004	STALINABAD, USSR	1047	10 21	23 44 36.7	3 42 00	32 30				845009
53988	EREVAN, USSR	1018	10 21	23 45 06.8	8 05 30	27 36				845009
54000	STALINABAD, USSR	1068	10 21	23 45 13.8	3 58 24	36 54				845009
54005	STALINABAD, USSR	1047	10 21	23 45 42.3	4 15 00	40 30				845009
53991	BATUMI, USSR	1009	10 21	23 46 20.5	26 70	34 48				845009
54001	STALINABAD, USSR	1068	10 21	23 47 27.6	5 38 42	52 36				845009
54002	STALINABAD, USSR	1068	10 21	23 50 00.7	8 48 18	59 12				845009
54006	STALINABAD, USSR	1047	10 21	23 50 49.4	9 45 00	57 48				845009
54007	STALINABAD, USSR	1047	10 21	23 50 56.4	9 57 00	57 00				845009

OBJ NO	STATION	SEA NO	DATE	TIME	R. A.	DEGL.	AZIMUTH	ALTITUDE	RANGE	INDEX
54003	STALINABAD, USSR	1068	10 21	29 52 15.5	11 03 06	52 30				845009
54008	STALINABAD, USSR	1047	10 21	29 53 05.1	10 57 30	54 48				845009
54009	STALINABAD, USSR	1047	10 21	29 53 24.3	11 42 00	47 36				845009
34770	ANTOFAGASTA, CHILE	0804	10 21	29 58 48.1	8 36	-85 25				845042
53983	TBILISI, USSR	1053	10 22	1 52 26.4	11 34 00	45 12				845009
34771	ANTOFAGASTA, CHILE	0804	10 22	3 02 35	20	-60				845042
53985	TCHERNOVITSY, USSR	1062	10 22	3 39 14	3 06	3				845009
53984	TCHERNOVITSY, USSR	1062	10 22	3 40 13.1	3 27	9				845009
53909	SPETSAL, GR.	4076	10 22	3 54 40.0			232 30	27 00		834309
34666	MILWAUKEE, WISC.	0074	10 22	7 16 23.7			92 06	24 24		841304
34667	MILWAUKEE, WISC.	0074	10 22	7 17 37.1			85 54	20 42		841304
34668	MILWAUKEE, WISC.	0074	10 22	7 19 40.0			87 36	14 30		841304
54235	MADISON, WISC.	5078	10 22	9 30 14.0	3 54 06	9 00				837007
10963	ORGAN PASS, N.M.	9001	10 22	9 32 03.10	7 21 54	19 11				845009
34669	DENVER, COLO.	8508	10 22	9 32 17.4			112 48	26 36		845009
34772	WICHITA, KAN.	3018	10 22	9 32 44.0	5 09 29	32 47				845043
54233	MADISON, WISC.	1078	10 22	9 34 08.5	5 28 00	25 15				837007
34671	NEW ORLEANS, LA.	1033	10 22	9 34 23			0 00	30 30		845002
34773	HOUSTON, TEX.	1074	10 22	9 34 23	6 11 09	57 36				845002
34660	SILVER SPRING, MD.	3003	10 22	9 35 16	3 58	40 00				845002
34744	CINCINNATI, OHIO	4555	10 22	9 35 44			333 45	01 34		845002
54234	MADISON, WISC.	5078	10 22	9 35 55.0	5 47 24	33 54				837007
34661	SILVER SPRING, MD.	3003	10 22	9 36 00			0	71		845002
10959	DOVER, ARIZ.	9001	10 22	9 36 44.5	1 55 14	-75 54				845002
34768	DOVER, ARIZ.	9001	10 22	9 36 44.5			180	64 30		845002
34763	DOVER, ARIZ.	9001	10 22	9 36 44.5			180	64 30		845002
34764	DOVER, ARIZ.	9001	10 22	9 36 44.5			180	64 30		845002
34765	DOVER, ARIZ.	9001	10 22	9 36 44.5			180	64 30		845002
34673	SACRAMENTO, CALIF.	4517	10 22	9 36 44.5			180	64 30		845002
34675	CHINA LAKE, CALIF.	4517	10 22	9 36 44.5			180	64 30		845002
34676	CHINA LAKE, CALIF.	4517	10 22	9 36 44.5			180	64 30		845002
10958	ORGAN PASS, N.M.	9001	10 22	9 36 44.5	3 12 14	59 11				845002
34670	DENVER, COLO.	8508	10 22	9 36 44.5			180	64 30		845002
34744	PHOENIX, ARIZ.	3018	10 22	9 36 44.5	7 10	67 36				845043
34672	ST. MORTIMER, TEX.	1033	10 22	9 36 44.5	6 47 00	62 42				845002
34672	NEW ORLEANS, LA.	1033	10 22	9 36 44.5			0 00	30 30		845002
10960	DOVER, ARIZ.	9001	10 22	9 36 44.5	1 55 14	-75 54				845002
34674	SACRAMENTO, CALIF.	4517	10 22	9 36 44.5			180	64 30		845002
34674	SACRAMENTO, CALIF.	4517	10 22	9 36 44.5			180	64 30		845002
53878	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53879	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53880	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53881	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53882	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53883	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53884	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53885	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53886	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53887	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53888	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53889	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53890	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53891	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53892	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53893	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53894	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53895	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53896	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53897	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53898	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53899	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53900	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53901	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53902	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53903	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53904	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53905	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53906	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53907	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53908	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53909	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53910	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53911	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53912	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53913	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53914	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53915	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53916	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53917	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53918	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53919	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53920	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53921	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53922	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53923	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53924	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53925	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53926	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53927	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53928	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53929	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53930	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53931	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53932	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53933	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53934	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53935	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53936	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53937	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53938	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53939	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53940	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53941	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53942	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53943	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53944	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53945	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53946	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53947	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53948	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53949	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53950	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53951	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53952	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53953	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53954	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53955	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53956	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53957	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53958	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53959	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53960	TULLAH, MISS.	8424	10 22	9 36 44.5			180	64 30		845002
53961	TULLAH, MISS.									

OBS NO	STATION	STA NO	DATE	TIME	R. A.	DECL.	AZIMUTH	ALTITUDE	RANGE	INCL
53905	SPETSAL, GR.	8078	10 23	1 24 58.0			239 12	10 30		834309
53906	SPETSAL, GR.	8078	10 23	1 25 56.0			238 54	11 00		834309
53907	SPETSAL, GR.	8078	10 23	1 26 51.0			238 36	8 00		834309
53908	SPETSAL, GR.	8078	10 23	1 27 51.0			238 30	4 42		834309
53910	SPETSAL, GR.	8078	10 23	3 14 39.5			101 00	33 12		834309
53911	SPETSAL, GR.	8078	10 23	3 15 27.5			105 00	37 12		834309
53912	SPETSAL, GR.	8078	10 23	3 16 11.0			109 00	41 00		834309
53913	SPETSAL, GR.	8078	10 23	3 19 05.0			139 30	50 12		834309
53914	SPETSAL, GR.	8078	10 23	3 20 11.0			158 30	57 48		834309
54419	BRATISLAVA, CZECH.	5702	10 23	3 20 49.7	7 34 00	35 45				634042
53915	SPETSAL, GR.	8078	10 23	3 21 05.0			175 06	37 18		834309
53916	SPETSAL, GR.	8078	10 23	3 22 31.5			198 00	52 30		834309
53917	SPETSAL, GR.	8078	10 23	3 23 10.5			205 54	49 12		834309
53918	SPETSAL, GR.	8078	10 23	3 24 35.5			218 42	41 18		834309
53919	SPETSAL, GR.	8078	10 23	3 25 26.0			223 48	36 42		834309
53920	SPETSAL, GR.	8078	10 23	3 26 00.5			226 48	32 44		834309
53921	SPETSAL, GR.	8078	10 23	3 27 06.0			231 24	28 00		834309
53922	SPETSAL, GR.	8078	10 23	3 28 21.0			235 30	21 42		834309
53923	SPETSAL, GR.	8078	10 23	3 29 49.0			239 06	16 00		834309
53924	SPETSAL, GR.	8078	10 23	3 30 16.0			240 00	14 00		834309
53925	SPETSAL, GR.	8078	10 23	3 31 08.0			241 42	11 12		834309
53926	SPETSAL, GR.	8078	10 23	3 32 05.0			243 18	8 00		834309
53927	SPETSAL, GR.	8078	10 23	3 33 06.0			244 54	4 24		834309
10973	JUPITER BN, FLA.	9010	10 23	9 07 32.40	2 14 12	57 10				434013
34745	DENVER, COLO.	8582	10 23	9 08 42.6			85 48	59 45 00		845303
34774	ROANOK, VA.	0083	10 23	9 09 01	5 46 02	56 42				845042
34778	SILVER SPRING, MO.	0032	10 23	9 11 35	5 55	54				845002
34779	SILVER SPRING, MD.	0032	10 23	9 11 49			0	72		845302
10961	WOOMERA BN, AUST.	9003	10 23	10 22 08.01	3 06 18	-74 27				434023
34769	MELBOURNE, AUST.	0604	10 23	10 22 42			180	60 15 00		845302
34782	TOWNSVILLE, AUST.	8578	10 23	10 27 02.1			149 56	17 37		845302
34783	TOWNSVILLE, AUST.	8578	10 23	10 27 04.1			149 43	17 52		845302
34784	SACRAMENTO, CAL.	8517	10 23	11 04 35.4			180 00	61 16		845304
34746	DENVER, COLO.	8582	10 23	11 07 15.6			278 12	61 42		845303
10965	ORGAN PASS BN, N.M.	9001	10 23	11 07 59.37	3 41 30	62 31				434013
34615	NEW ORLEANS, LA.	0030	10 23	12 14 17.5			0 30	38 00		845302
10962	WOOMERA BN, AUST.	9003	10 23	12 27 31.36	0 07 18	-59 39				434023
34785	SACRAMENTO, CAL.	8517	10 23	13 11 42.0			0 30	58 43		845304
34994	SAPPORO, JAPAN	0245	10 23	15 02 47.6	8 40 30	12 54				845002
34995	SAPPORO, JAPAN	0245	10 23	17 01 07.4	7 57	35 42				845302
53816	TULEAR, MADAG.	6404	10 23	18 12 00.0			210 36	7 12		845309
53817	TULEAR, MADAG.	6404	10 23	18 13 00.0			208 42	9 18		845309
53818	TULEAR, MADAG.	6404	10 23	18 14 00.0			205 30	13 12		845309
53819	TULEAR, MADAG.	6404	10 23	18 15 00.0			201 54	17 42		845309
53820	TULEAR, MADAG.	6404	10 23	18 16 00.0			197 36	22 00		845309
53821	TULEAR, MADAG.	6404	10 23	18 17 00.0			191 24	27 30		845309
53822	TULEAR, MADAG.	6404	10 23	18 18 00.0			183 54	40 36		845309
53823	TULEAR, MADAG.	6404	10 23	18 20 00.0			160 36	44 54		845309
53824	TULEAR, MADAG.	6404	10 23	18 21 00.0			146 06	49 30		845309
54097	VLADIVOSTOK, USSR	1013	10 23	18 58 50.9	4 46 30	31 24				845009
34996	ASAHIKAWA, JAPAN	0201	10 23	19 01 43.6	5 01 30	42 00				845002
54098	VLADIVOSTOK, USSR	1013	10 23	19 05 11.6	4 15 06	41 48				845009
34998	KANAYA MACHI, JAPAN	0220	10 23	19 06 21	14 00	55				845002
34997	YOKKAICHI, JAPAN	0258	10 23	19 10 05	12 57	40				845002
34872	BAGUIO CITY, PH. IS.	0504	10 23	20 58 43.5			334 36	12		845302
34815	HSINGCHU CITY, TAIWAN	0502	10 23	20 58 44.8	0 12	61 42				845042
34873	BAGUIO CITY, PH. IS.	0504	10 23	21 02 19.5			353 55 12	14 36		845302
35000	YATSUSHIRO, JAPAN	0272	10 23	21 03 10			330 00	34 18		845302
34816	HSINGCHU CITY, TAIWAN	0502	10 23	21 03 20.3	23 57	87 06				845042
34874	BAGUIO CITY, PH. IS.	0504	10 23	21 05 37			10 42	9 00		845302
34999	YATSUSHIRO, JAPAN	0272	10 23	21 06 00			3 00	38 00		845302
54286	FRUNZE, USSR	1058	10 23	22 28 53.3	4 47 30	34 12				845009
54287	FRUNZE, USSR	1058	10 23	22 30 10.1	5 52 30	40 48				845009
54288	FRUNZE, USSR	1058	10 23	22 30 59.1	6 43 00	45 12				845009
54289	FRUNZE, USSR	1058	10 23	22 32 05.9	7 42 00	46 12				845009
54290	FRUNZE, USSR	1058	10 23	22 32 35.3	8 14 00	46 06				845009
54291	FRUNZE, USSR	1058	10 23	22 33 59.9	9 32 00	44 54				845009
54281	FRUNZE, USSR	1058	10 23	22 53 22.5	3 45 00	24 00				845009
54083	STALINABAD, USSR	1068	10 23	22 54 35.3	5 21 00	45 54				845009
54084	STALINABAD, USSR	1068	10 23	22 56 10.2	7 00 36	53 18				845009
54082	STALINABAD, USSR	1047	10 23	22 58 36.8	9 31 00	52 06				845009
54282	FRUNZE, USSR	1058	10 23	23 00 35.2	9 52 00	45 42				845009
54085	STALINABAD, USSR	1068	10 23	23 00 44.6	10 56 30	45 36				845009
54283	FRUNZE, USSR	1058	10 23	23 01 36.6	10 31 30	42 36				845009
54284	FRUNZE, USSR	1058	10 23	23 02 08.5	10 50 00	41 00				845009
54285	FRUNZE, USSR	1058	10 23	23 03 47.3	11 36 30	35 06				845009
34786	ANTOFAGASTA, CHILE	0804	10 24	0 03 55.0	13 04	-71 43				845042
34787	ANTOFAGASTA, CHILE	0804	10 24	0 09 32.2	4 01	-61 11				845042
10977	VILLA DOLORES BN, ARG	9011	10 24	0 14 45.00	3 09 12	-17 06				434013
10975	SHIRAZ BN, IRAN	9009	10 24	0 54 47.07	2 37 12	70 22				434013
34788	ANTOFAGASTA, CHILE	0804	10 24	2 06 56.3	16 56	-52 26				845042
34789	ANTOFAGASTA, CHILE	0804	10 24	2 08 04.4	17 50	-64 23				845042
34790	ANTOFAGASTA, CHILE	0804	10 24	2 09 43.7	18 53	-67 05				845042
53704	MEUDON, FRANCE	2715	10 24	2 48 35.40			174 17	50 39		637109
53705	MEUDON, FRANCE	2715	10 24	2 49 00.70			169 35	51 24		637109
53706	MEUDON, FRANCE	2715	10 24	2 50 01.10			154 24	54 03		637109
53928	SPETSAL, GR.	8078	10 24	2 50 18.0			109 48	41 00		834309
54088	ICHERNOVITSY, USSR	1062	10 24	2 50 56.0	4 21 36	22 36				845009
53707	MEUDON, FRANCE	2715	10 24	2 51 13.60			135 00	33 36		637109
53708	MEUDON, FRANCE	2715	10 24	2 52 00.50			123 33	51 33		637109
53709	MEUDON, FRANCE	2715	10 24	2 53 14.70			108 54	46 24		637109
53929	SPETSAL, GR.	8078	10 24	2 53 24.0			153 42	59 36		834309
53710	MEUDON, FRANCE	2715	10 24	2 54 13.60			100 17	41 34		637109
53930	SPETSAL, GR.	8078	10 24	2 54 43.0			181 18	58 18		834309

DBS NO	STATION	SEA NO	DATE	TIME	R. A.	DECL	AZIMUTH	ALTITUDE	HA-46	INUL4
53711	MEUDON, FRANCE	2715	10 24	2 55 12.20			93 48	38 30		637109
53931	SPETSAL, GR.	8078	10 24	2 55 37.0			192 12	34 00		634306
53712	MEUDON, FRANCE	2715	10 24	2 56 03.40			89 24	32 13		637109
54089	ICHERNOVITSY, USSR	1062	10 24	2 57 06.4	9 12 30	32 48				845009
53713	MEUDON, FRANCE	2715	10 24	2 57 14.70			84 43	26 35		637109
53932	SPETSAL, GR.	8078	10 24	2 57 38.0			113 42	44 36		634309
53714	MEUDON, FRANCE	2715	10 24	2 58 10.50			81 49	22 29		637109
53933	SPETSAL, GR.	8078	10 24	2 58 45.0			122 06	38 12		634309
53715	MEUDON, FRANCE	2715	10 24	2 59 05.70			77 20	28 44		637109
53716	MEUDON, FRANCE	2715	10 24	3 00 11.30			77 19	24 30		637109
53934	SPETSAL, GR.	8078	10 24	3 00 32.0			131 00	48 40		634309
53717	MEUDON, FRANCE	2715	10 24	3 01 28.03			13 05	10 00		637109
53935	SPETSAL, GR.	8078	10 24	3 02 14.3			236 00	21 40		634309
53718	MEUDON, FRANCE	2715	10 24	3 02 15.26			73 55	7 27		637109
53936	SPETSAL, GR.	8078	10 24	3 03 40.0			239 12	12 06		634309
53937	SPETSAL, GR.	8078	10 24	3 03 06.0			241 36	10 00		634309
53938	SPETSAL, GR.	8078	10 24	3 06 18.0			243 21	5 36		634309
53849	MEUDON, FR.	2715	10 24	4 48 57.70			252 11	34 40		637109
53850	MEUDON, FR.	2715	10 24	4 49 17.60			253 23	16 28		637109
53851	MEUDON, FR.	2715	10 24	4 50 23.30			250 27	43 35		637109
53852	MEUDON, FR.	2715	10 24	4 51 07.40			240 49	40 30		637109
53853	EL GULLA, ALG.	2715	10 24	4 52 04.40			245 40	35 37		637109
53854	MEUDON, FR.	2715	10 24	4 53 03.70			239 48	65 27		637109
53855	MEUDON, FR.	2715	10 24	4 53 58.90			247 14	12 36		637109
53856	MEUDON, FR.	2715	10 24	4 55 04.60			278 46	8 30		637109
53857	MEUDON, FR.	2715	10 24	4 56 07.30			241 00	76 04		637109
53858	MEUDON, FR.	2715	10 24	4 57 01.40			104 07	67 16		637109
53859	MEUDON, FR.	2715	10 24	4 58 06.50			95 19	57 39		637109
53860	MEUDON, FR.	2715	10 24	4 59 04.70			92 27	48 35		637109
55825	RODEWISCH, GER.	2733	10 24	5 00 07.0	9 59 0	52 00				634309
55826	RODEWISCH, GER.	2733	10 24	5 02 24.7	11 30 16	43 40				634309
55827	RODEWISCH, GER.	2733	10 24	5 06 24.2	12 55 48	37 14				634309
34775	ROANOK, VA.	3073	10 24	8 42 01	5 40 36	81 14				634309
10976	JUPITER, FLA.	9010	10 24	8 42 24.32	3 02 18	66 33				634309
34791	CINCINNATI, OHIO	8555	10 24	8 43 33.2			76 18	56 54		634309
34780	SILVER SPRING, MO.	3632	10 24	8 45 07				77		634309
34781	SILVER SPRING, MO.	3632	10 24	8 48 52.6	9 52	52 26				634309
54236	MADISON, WISC.	5078	10 24	10 42 21.0	7 59 14	16 36				637109
34792	DENVER, COLO.	5582	10 24	10 43 13.3			2 30	77 12		634309
34794	NEW ORLEANS, LA.	3630	10 24	10 47 44			0 00	39 30		634309
34609	ROCHESTER, N.Y.	8564	10 24	10 47 47.2	4 15 14	46 18				634309
34795	WICHITA, KAN.	3628	10 24	10 53 34.2	12 47 13	17 44				634309
10978	WOMERS, BN. ARK.	9003	10 24	12 01 17.2	3 34 10	11 12				634309
34793	DENVER, COLO.	5582	10 24	12 49 14.2			1 45 00	59 30		634309
53947	TULEAR, MADAG.	6404	10 24	15 48 00.0			162 18	18 14		634309
53948	TULEAR, MADAG.	6404	10 24	15 49 30.0			162 11	14 36		634309
53949	TULEAR, MADAG.	6404	10 24	15 50 00.0			165 24	13 14		634309
53950	TULEAR, MADAG.	6404	10 24	15 51 00.0			137 30	12 18		634309
53951	TULEAR, MADAG.	6404	10 24	15 51 00.0			131 42	10 40		634309
53952	TULEAR, MADAG.	6404	10 24	15 51 00.0			125 24	9 16		634309
53953	TULEAR, MADAG.	6404	10 24	15 54 00.0			119 54	7 14		634309
53954	TULEAR, MADAG.	6404	10 24	15 55 00.0			115 18	5 14		634309
53955	TULEAR, MADAG.	6404	10 24	15 56 00.0			110 46	3 16		634309
53956	TULEAR, MADAG.	6404	10 24	15 57 00.0			107 24	1 14		634309
53825	TULEAR, MADAG.	6404	10 24	16 07 00.0			103 48	0 16		634309
53826	TULEAR, MADAG.	6404	10 24	16 10 00.0			100 12	0 14		634309
53827	TULEAR, MADAG.	6404	10 24	16 11 00.0			100 00	0 14		634309
53828	TULEAR, MADAG.	6404	10 24	16 12 00.0			102 34	12 14		634309
53829	TULEAR, MADAG.	6404	10 24	16 13 00.0			175 48	14 12		634309
53830	TULEAR, MADAG.	6404	10 24	16 14 00.0			167 42	13 12		634309
53831	TULEAR, MADAG.	6404	10 24	16 15 00.0			159 36	12 16		634309
53832	TULEAR, MADAG.	6404	10 24	16 16 00.0			151 24	11 12		634309
53833	TULEAR, MADAG.	6404	10 24	16 17 00.0			143 48	10 00		634309
53834	TULEAR, MADAG.	6404	10 24	16 18 00.0			136 36	9 14		634309
53835	TULEAR, MADAG.	6404	10 24	16 19 00.0			129 42	8 16		634309
53836	TULEAR, MADAG.	6404	10 24	16 20 00.0			123 54	7 08		634309
53837	TULEAR, MADAG.	6404	10 24	16 21 00.0			118 06	6 14		634309
53838	TULEAR, MADAG.	6404	10 24	16 22 00.0			113 24	5 14		634309
53839	TULEAR, MADAG.	6404	10 24	16 23 00.0			107 00	4 16		634309
35001	MITAKA, JAPAN	0229	10 24	16 34 51.3	67 30	36 00				634309
35002	MITAKA, JAPAN	0229	10 24	16 35 10.1	64 12	18 34				634309
35003	MITAKA, JAPAN	0229	10 24	16 37 12.8	62 18	24 00				634309
53957	TULEAR, MADAG.	6404	10 24	17 45 00.0			108 30	7 30		634309
53958	TULEAR, MADAG.	6404	10 24	17 46 00.0			106 30	9 16		634309
53959	TULEAR, MADAG.	6404	10 24	17 47 00.0			104 24	13 12		634309
53960	TULEAR, MADAG.	6404	10 24	17 48 00.0			100 36	11 14		634309
53961	TULEAR, MADAG.	6404	10 24	17 49 00.0			193 00	10 16		634309
53962	TULEAR, MADAG.	6404	10 24	17 50 00.0			186 18	9 16		634309
53963	TULEAR, MADAG.	6404	10 24	17 51 00.0			177 54	8 12		634309
53964	TULEAR, MADAG.	6404	10 24	17 52 00.0			166 48	6 42		634309
53965	TULEAR, MADAG.	6404	10 24	17 53 00.0			153 48	5 14		634309
53966	TULEAR, MADAG.	6404	10 24	17 54 00.0			139 18	4 12		634309
53967	TULEAR, MADAG.	6404	10 24	17 55 00.0			125 36	3 08		634309
35005	KASHIWABARA, JAPAN	0222	10 24	18 32 17	3 13	54				634309
35007	YATSUBIRO, JAPAN	0272	10 24	18 33 07			0 00	40 14		634309
34817	HSINGCHU CITY, TAIWAN	0502	10 24	18 34 33.3	9 33	67 24				634309
54099	BLAGOVESHCHENSK, USSR	1010	10 24	18 34 44.7	6 10 30	16 06				634309
54100	BLAGOVESHCHENSK, USSR	1010	10 24	18 36 48.0	6 35 00	13 00				634309
34818	HSINGCHU CITY, TAIWAN	0502	10 24	18 38 18.0	11 47 30	21 00				634309
35006	KANAYA MACHI, JAPAN	0223	10 24	18 38 46	10 59	37 24				634309
35004	YOKKAICHI, JAPAN	0258	10 24	18 40 41	11 48	31				634309
34875	BAGUIO CITY, PH. IS.	0504	10 24	20 30 17			325 12	11 42		634309
34876	BAGUIO CITY, PH. IS.	0504	10 24	20 33 05.5			339 52 12	11 50 14		634309
35008	YATSUBIRO, JAPAN	0272	10 24	20 39 31			0 00	39 24		634309
34877	BAGUIO CITY, PH. IS.	0504	10 24	20 44 00			31 18 12	11 22 40		634309

OBS NO	STATION	STA NO	DATE	TIME	R. A.	DECL.	AZIMUTH	ALTITUDE	RANGE	THOLX
54102	FRUNZE, USSR	1058	10 24	22 29 30.6	5 20 00	37 48				845009
54103	FRUNZE, USSR	1058	10 24	22 33 20.6	8 30 00	45 36				845009
54101	TACHKENT, USSR	1052	10 24	22 34 46.3	10 26 00	37 00				845009
10979	MAINI TAL, INDIA	9006	10 24	22 36 08.30	12 17 30	61 22				434013
34819	ANTOFAGASTA, CHILE	0804	10 24	23 37 44.8	12 24	-72 00				845042
34820	ANTOFAGASTA, CHILE	0804	10 24	23 39 28.2	9 33	-80 44				845042
10987	VILLA DOLORES, BN, ARG	9011	10 24	23 41 49.31	1 51 42	-78 18				434023
54092	EREVAN, USSR	1018	10 25	0 25 34.2	3 53 18	34 54				845009
54224	SOMNEBERG	2730	10 25	0 25 42.5	1 25 00	7 16				845045
54093	EREVAN, USSR	1018	10 25	0 25 56.0	4 07 42	37 42				845009
54086	ORENBURGH, USSR	1063	10 25	0 27 41.9	4 27 30	13 36				845009
54090	BATUMI, USSR	1009	10 25	0 28 09.4			253 36	76 36		845309
10983	SHIRAZ, BN, IRAN	9008	10 25	0 30 14.67	6 07 36	81 38				434013
54226	STALINABAO, USSR	1068	10 25	0 30 20.2	2 56 18	47 00				845009
54087	ORENBURGH, USSR	1063	10 25	0 32 15.9	7 27 30	28 00				845009
54091	BATUMI, USSR	1009	10 25	0 34 22.9			446 00	27 54		845309
54227	STALINABAO, USSR	1068	10 25	0 34 26.6	7 01 24	72 12				845009
54095	SARATOV, USSR	1044	10 25	0 34 28.9			476 12	37 18		845309
54096	SARATOV, USSR	1044	10 25	0 34 43.6	9 56 46	23 36				845009
54228	STALINABAO, USSR	1068	10 25	0 36 45.1	12 45 12	51 42				845009
34821	ANTOFAGASTA, CHILE	0804	10 25	1 41 13.4	16 37	-60 00				845042
34822	ANTOFAGASTA, CHILE	0804	10 25	1 43 37.0	19 56	-72 28				845042
10982	AREQUIPA, BN, PERU	9007	10 25	1 42 18.00	2 24 48	-69 35				434023
34823	ANTOFAGASTA, CHILE	0804	10 25	1 47 38.2	1 33	-53 26				845042
10988	VILLA DOLORES, BN, ARG	9011	10 25	1 47 41.68	23 35 24	-25 37				434023
53891	MEUDON, FR.	2715	10 25	2 23 50.50			147 11	51 27		637109
53840	EL GULEA, ALG.	6411	10 25	2 24 00.0			31 00	42 06		645309
53892	MEUDON, FR.	2715	10 25	2 24 06.90			143 10	51 26		637109
54016	SPETSAL, GREECE	8078	10 25	2 24 28.5			114 54	52 30		634309
53841	EL GULEA, ALG.	6411	10 25	2 25 00.0			34 24	36 24		645309
53893	MEUDON, FR.	2715	10 25	2 25 00.50			130 22	50 21		637109
53842	EL GULEA, ALG.	6411	10 25	2 26 00.0			38 00	30 54		645309
53894	MEUDON, FR.	2715	10 25	2 26 12.90			115 13	46 43		637109
54017	SPETSAL, GREECE	8078	10 25	2 26 15.5			141 36	60 42		634309
53843	EL GULEA, ALG.	6411	10 25	2 27 00.0			40 24	45 54		645309
53895	MEUDON, FR.	2715	10 25	2 27 12.00			105 28	42 22		637109
54018	SPETSAL, GREECE	8078	10 25	2 27 41.5			172 00	60 54		634309
53844	EL GULEA, ALG.	6411	10 25	2 28 00.0			42 12	21 12		645309
53896	MEUDON, FR.	2715	10 25	2 28 11.00			97 53	37 52		637109
54019	SPETSAL, GREECE	8078	10 25	2 28 47.5			191 46	58 00		634309
53845	EL GULEA, ALG.	6411	10 25	2 29 00.0			43 54	17 18		645309
53897	MEUDON, FR.	2715	10 25	2 29 03.50			92 32	33 46		637109
53846	EL GULEA, ALG.	6411	10 25	2 30 00.0			45 00	13 36		645309
54020	SPETSAL, GREECE	8078	10 25	2 30 00.5			206 00	51 12		634309
53898	MEUDON, FR.	2715	10 25	2 30 11.60			87 10	28 31		637109
53847	EL GULEA, ALG.	6411	10 25	2 31 00.0			46 12	10 00		645309
53899	MEUDON, FR.	2715	10 25	2 31 01.50			84 02	24 51		637109
53848	EL GULEA, ALG.	6411	10 25	2 31 00.0			47 16	7 00		645309
53900	MEUDON, FR.	2715	10 25	2 32 24.00			80 02	19 04		637109
54021	SPETSAL, GREECE	8078	10 25	2 32 26.5			225 00	37 00		634309
54022	SPETSAL, GREECE	8078	10 25	2 33 39.5			230 06	30 48		634309
54023	SPETSAL, GREECE	8078	10 25	2 34 40.5			233 06	25 16		634309
54024	SPETSAL, GREECE	8078	10 25	2 35 42.5			236 36	20 42		634309
54025	SPETSAL, GREECE	8078	10 25	2 36 43.5			238 42	16 30		634309
54026	SPETSAL, GREECE	8078	10 25	2 38 21.5			240 30	10 36		634309
54027	SPETSAL, GREECE	8078	10 25	2 39 08.5			242 36	7 54		634309
34796	SILVER SPRING, MD.	0032	10 25	8 18 17			0	80		845302
34799	MILWAUKEE, WISC.	0074	10 25	8 18 24.3			97 00	56 30		641304
10984	JUPITER, BN, FLA.	9010	10 25	8 18 38.59	7 36 00	75 15				434013
34800	MILWAUKEE, WISC.	0074	10 25	8 21 33.6			77 54	36 06		641304
34797	SILVER SPRING, MD.	0032	10 25	8 22 12.8	9 25	51				845042
34801	MILWAUKEE, WISC.	0074	10 25	8 27 45.5			66 24	7 12		641304
34824	MELBOURNE, AUST.	0604	10 25	9 29 53			150	54		645302
10986	JUPITER, BN, FLA.	9010	10 25	10 14 47.17	0 54 12	35 42				434013
36916	MAISON, WISC.	0148	10 25	10 14 55.0	2 32 30	20 24				645042
54237	MAISON, WISC.	5078	10 25	10 15 10.0	2 35 54	21 42				637007
10980	ORGAN PASS, BN, N.M.	9001	10 25	10 15 19.50	4 06 42	62 07				434013
34802	MILWAUKEE, WISC.	0074	10 25	10 16 33.3			270 48	43 36		641304
34805	DENVER, COLO.	8582	10 25	10 17 03.0			13 12	79 12		645303
34809	NEW ORLEANS, LA.	0030	10 25	10 21 02			0 00	40 30		645302
34803	MILWAUKEE, WISC.	0074	10 25	10 21 37.9			0 00	76 18		641304
10985	JUPITER, BN, FLA.	9010	10 25	10 23 49.23	20 47 00	39 28				434013
34810	CINCINNATI, OHIO	8555	10 25	10 25 20.5			39 24	47 24		845302
34798	SILVER SPRING, MD.	0032	10 25	10 27 56.6	12 00	55 30				845042
34804	MILWAUKEE, WISC.	0074	10 25	10 29 00.4			70 42	24 42		641304
54238	MAISON, WISC.	5078	10 25	11 18 27.0	9 12 00	36 36				637007
10989	WOOMERA, BN, AUST.	9003	10 25	11 31 24.19	18 39 54	-52 50				434023
34825	MELBOURNE, AUST.	0604	10 25	11 36 34			0	58 30		645302
34807	SACRAMENTO, CAL.	8517	10 25	12 18 24.8			0 00	62 02		641304
34811	CHINA LAKE, CAL.	8566	10 25	12 18 38.5			347 03	51 03	36	645303
10981	ORGAN PASS, BN, N.M.	9001	10 25	12 19 35.40	2 17 12	66 09				434013
34806	DENVER, COLO.	8582	10 25	12 23 35.0			4 06	59 36		645303
34808	SACRAMENTO, CAL.	8517	10 25	14 24 03.6			0 00	57 36		641304
35009	MITAKA, JAPAN	0229	10 25	16 09 08.5			67 36	30 12		845303
35010	MITAKA, JAPAN	0229	10 25	16 10 10.9			65 00	25 48		645303
35911	MITAKA, JAPAN	0229	10 25	16 11 19.1			62 48	20 24		845303
54061	TULEAR, MADAG.	6404	10 25	17 21 30.0			198 54	14 00		645309
54062	TULEAR, MADAG.	6404	10 25	17 22 00.0			195 30	17 42		645309
54063	TULEAR, MADAG.	6404	10 25	17 23 00.0			188 48	22 12		645309
54064	TULEAR, MADAG.	6404	10 25	17 24 00.0			181 36	26 24		645309
54065	TULEAR, MADAG.	6404	10 25	17 25 00.0			172 30	30 36		645309
54066	TULEAR, MADAG.	6404	10 25	17 26 30.0			155 48	35 48		645309
54067	TULEAR, MADAG.	6404	10 25	17 27 00.0			148 30	37 00		645309
54068	TULEAR, MADAG.	6404	10 25	17 28 00.0			134 30	37 30		645309

OBS NO	STATION	SIA NO	DATE	TIME	R. A.	DECL.	AZIMUTH	ALTITUDE	RANGE	INDEX
54069	TULEAR, MADAG.	6404	10 25	17 29 00			171 24	36 12		845309
35012	MITAKA, JAPAN	0229	10 25	18 07 05.8			316 47	61 00		845303
35013	MITAKA, JAPAN	0229	10 25	18 08 20.9			343 06	62 18		845303
10994	TOKYO*BN, JAPAN	9002	10 25	18 09 42.80	6 22 24	67 00				434013
35014	MITAKA, JAPAN	0229	10 25	18 10 49.4			23 18	52 00		845303
35015	KASHIWABARA, JAPAN	0222	10 25	18 10 54	9 26	63				845002
54070	TULEAR, MADAG.	6404	10 25	19 25 00.0			240 38	15 24		845309
54071	TULEAR, MADAG.	6404	10 25	19 26 00.0			231 24	20 44		845309
54072	TULEAR, MADAG.	6404	10 25	19 27 00.0			228 16	26 12		845309
35167	PRETORIA, S.AFR.	8513	10 25	19 28 00.4	44 49	-51 12				845042
34878	BAGUIO CITY, PH. IS.	0504	10 25	20 05 49.5			336 36	13 48		845301
34879	BAGUIO CITY, PH. IS.	0504	10 25	20 07 21.3			345 09 00	12 57 00		845302
54104	BLAGOVESHCHENSK, USSR	1310	10 25	20 08 03.4	4 12 13	22 00				845009
35018	KASHIWABARA, JAPAN	0222	10 25	20 10 17	2 49	58				845002
34880	BAGUIO CITY, PH. IS.	0504	10 25	20 12 36			12 01 12	9 33		845302
54105	BLAGOVESHCHENSK, USSR	1015	10 25	20 15 06.3	5 41 00	33 12				845009
35017	KANAYA MACHI, JAPAN	0229	10 25	20 18 21	15 13	56				845002
35016	YOKKAICHI, JAPAN	0238	10 25	20 18 25	15 02	56				845002
10990	NAINI TAL'BN, INDIA	9006	10 25	22 07 30.54	11 03 06	69 13				434013
54220	ABAKAN, USSR	1001	10 25	22 09 40.67	7 57 48	25 12				845009
54221	ABAKAN, USSR	1001	10 25	22 13 52.3	10 17 41	20 42				845009
54094	TACHKENT, USSR	1052	10 25	22 14 46.0	10 26 00	37 00				845009
55822	SONNEBERG	2730	10 26	0 01 09.2	7 52 30	9 48				834049
54222	EREVAN, USSR	1018	10 26	0 02 22.5	5 44 00	46 48				845009
54223	EREVAN, USSR	1018	10 26	0 03 09.4	7 35 12	50 36				845009
55823	SONNEBERG	2730	10 26	0 03 42.9	8 46 30	12 42				834049
10993	SHIRAZ*BN, IRAN	9008	10 26	0 06 21.71	11 15 30	70 08				434013
34827	ANTOFAGASTA, CHILE	0804	10 26	1 15 14.4	16 15	-63 36				845042
34828	ANTOFAGASTA, CHILE	0804	10 26	1 19 35.6	0 05	-71 54				845042
34826	MELBOURNE, AUSTR.	0604	10 26	4 03 20			180	54		845302
55947	ALPINE*P. CAL.	5489	10 26	4 50 38.0	8 49 00	51 06				637009
34812	DENVER, COLO.	8581	10 26	9 50 42.6			43 45 00	77 06		845303
10991	ORGAN PASS*BN, N.M.	9001	10 26	9 51 05.60	8 43 54	64 54				434013
34829	WOOMERA, AUSTR.	0603	10 26	11 04 33.5			210 30	35 36		845302
34830	WOOMERA, AUSTR.	0603	10 26	11 05 51.2			198 30	46 48		845302
34831	WOOMERA, AUSTR.	0603	10 26	11 06 42.2			185 06	54 06		845302
34832	ADELAIDE, AUSTR.	0600	10 26	11 07 50			133 20	61 30		845302
34833	ADELAIDE, AUSTR.	0600	10 26	11 07 52.5			142 20	79 40		845302
10995	WOOMERA*BN, AUSTR.	9003	10 26	11 09 44.1	7 25 30	-34 13				434023
34834	CHINA LAKE, CAL.	8588	10 26	11 01 49.5			346 17 24	52 45 00		845303
34813	DENVER, COLO.	8581	10 26	11 06 14.4			3 00	60 12		845303
34814	DENVER, COLO.	8581	10 26	11 06 08.4			34 45 00	53 30		845303
10992	ORGAN PASS*BN, N.M.	9001	10 26	11 06 17.00	11 46 06	70 17				434013
35119	KAGOSHIMA, JAPAN	0218	10 26	15 41 32	7 07	43 48				845002
54047	TULEAR, MADAG.	6404	10 26	16 53 00.0			206 24	6 18		845309
54048	TULEAR, MADAG.	6404	10 26	16 54 00.0			203 36	6 34		845309
54049	TULEAR, MADAG.	6404	10 26	16 55 00.0			199 30	12 30		845309
54050	TULEAR, MADAG.	6404	10 26	16 57 30.0			185 18	22 12		845309
54051	TULEAR, MADAG.	6404	10 26	16 58 00.0			180 24	24 12		845309
54052	TULEAR, MADAG.	6404	10 26	16 59 00.0			165 48	29 30		845309
54053	TULEAR, MADAG.	6404	10 26	17 00 00.0			160 36	32 34		845309
54054	TULEAR, MADAG.	6404	10 26	17 01 00.0			148 06	32 34		845309
54055	TULEAR, MADAG.	6404	10 26	17 02 00.0			135 48	33 48		845309
54056	TULEAR, MADAG.	6404	10 26	17 04 00.0			113 00	29 30		845309
54057	TULEAR, MADAG.	6404	10 26	17 05 00.0			104 36	26 12		845309
35120	ASAHITAWA, JAPAN	0201	10 26	17 43 32.4	5 58	47 42				845002
35121	YATSUSHIRO, JAPAN	0272	10 26	17 45 10			45 00	24 48		845002
35122	KAGOSHIMA, JAPAN	0218	10 26	17 48 09	11 18	45 54				845002
54058	TULEAR, MADAG.	6404	10 26	19 01 00.0			230 12	27 30		845309
54059	TULEAR, MADAG.	6404	10 26	19 02 00.0			233 00	31 48		845309
11007	OLIFANT*BN, S.AFR.	9001	10 26	19 03 54.00	1 21 44	-43 30				434013
54060	TULEAR, MADAG.	6404	10 26	19 03 30.0			239 00	45 12		845309
54224	BLAGOVESHCHENSK, USSR	1010	10 26	19 41 31.6	4 54 00	21 48				845009
34881	BAGUIO CITY, PH. IS.	0504	10 26	19 46 38.5			15 57 00	8 48		845302
35123	KOMI, JAPAN	0224	10 26	19 46 44.1	5 54 00	60 24				845002
35124	KANAYA MACHI, JAPAN	0220	10 26	19 51 34.4	12 48	56 18				845002
54225	BLAGOVESHCHENSK, USSR	1010	10 26	19 51 49.5	11 47 00	16 54				845009
10996	NAINI TAL'BN, INDIA	9006	10 26	21 17 16.50	4 13 00	73 18				434013
10999	SHIRAZ*BN, IRAN	9008	10 26	21 41 15.74	11 24 36	61 02				434013
54231	FRUNZE, USSR	1058	10 26	21 44 41.1	5 49 00	56 18				845009
10997	NAINI TAL'BN, INDIA	9006	10 26	23 45 19.10	11 57 30	60 15				434013
54232	FRUNZE, USSR	1058	10 26	23 46 34.3	11 45 00	45 30				845009
11000	AREQUIPA*BN, PERU	9007	10 27	0 55 00.00	5 07 36	-57 37				434013
54073	EL GULEA, ALG.	6411	10 27	3 29 00.0			26 24	27 36		845309
54074	EL GULEA, ALG.	6411	10 27	3 30 00.0			31 54	24 18		845309
54075	EL GULEA, ALG.	6411	10 27	3 31 00.0			35 36	20 36		845309
54078	SPEISAI, GREECE	8078	10 27	3 31 47.0			113 12	20 06		834309
54076	EL GULEA, ALG.	6411	10 27	3 32 00.0			40 18	17 24		845309
54160	BESANCON, FR.	2727	10 27	3 32 27.05			250 05	65 05		834309
54077	EL GULEA, ALG.	6411	10 27	3 33 00.0			43 24	14 18		845309
54161	BESANCON, FR.	2727	10 27	3 33 10.29			248 38	66 29		834309
54079	SPEISAI, GREECE	8078	10 27	3 33 30.5			120 12	28 12		834309
54078	EL GULEA, ALG.	6411	10 27	3 34 00.0			46 42	14 06		845309
54030	SPEISAI, GREECE	8078	10 27	3 34 45.0			124 18	30 06		834309
54079	EL GULEA, ALG.	6411	10 27	3 35 00.0			49 12	8 12		845309
54031	SPEISAI, GREECE	8078	10 27	3 35 59.0			130 36	37 00		834309
54080	EL GULEA, ALG.	6411	10 27	3 36 00.0			51 18	5 30		845309
54162	BESANCON, FR.	2727	10 27	3 36 34.42			107 58	81 22		834309
54032	SPEISAI, GREECE	8078	10 27	3 36 59.5			139 12	42 12		834309
54081	EL GULEA, ALG.	6411	10 27	3 37 00.0			53 42	2 48		845309
54163	BESANCON, FR.	2727	10 27	3 37 27.17			91 59	72 38		834309
54033	SPEISAI, GREECE	8078	10 27	3 37 43.5			146 06	45 18		834309
54164	BESANCON, FR.	2727	10 27	3 38 07.97			87 54	66 00		834309

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54034	SPETSAL, GREECE	8078	10 27	3 38 20.5			153 54	47 36		834309
54035	SPETSAL, GREECE	8078	10 27	3 39 13.5			164 12	50 12		834309
54165	BESANCON, FR.	2727	10 27	3 39 40.59			84 00	51 49		834309
54036	SPETSAL, GREECE	8078	10 27	3 40 00.5			175 36	51 24		834309
54166	BESANCON, FR.	2727	10 27	3 40 16.49			83 15	47 01		834309
35099	BOCHUM, GER.	8599	10 27	3 40 43.2	9 52 48	26 48				845002
54037	SPETSAL, GREECE	8078	10 27	3 41 00.5			90 24	51 06		834309
35100	BOCHUM, GER.	8599	10 27	3 41 20.4	10 12 06	26 03				845002
54167	BESANCON, FR.	2727	10 27	3 41 23.63			82 25	38 59		834309
54038	SPETSAL, GREECE	8078	10 27	3 42 18.5			208 12	47 48		834309
54168	BESANCON, FR.	2727	10 27	3 42 32.56			81 54	31 46		834309
35101	BOCHUM, GER.	8599	10 27	3 43 00.6	10 58 20	20 51				845002
54169	BESANCON, FR.	2727	10 27	3 43 05.55			81 43	28 42		834309
54039	SPETSAL, GREECE	8078	10 27	3 43 33.5			221 42	42 36		834309
54170	BESANCON, FR.	2727	10 27	3 44 26.44			81 28	21 55		834309
54040	SPETSAL, GREECE	8078	10 27	3 44 39.5			230 36	37 24		834309
54041	SPETSAL, GREECE	8078	10 27	3 45 21.5			235 12	34 00		834309
35102	BOCHUM, GER.	8599	10 27	3 45 26.9	11 43 42	14 54				845002
54171	BESANCON, FR.	2727	10 27	3 45 29.29			61 19	17 46		834309
54042	SPETSAL, GREECE	8078	10 27	3 46 08.5			239 36	30 18		834309
54172	BESANCON, FR.	2727	10 27	3 46 56.95			81 18	11 33		834309
54043	SPETSAL, GREECE	8078	10 27	3 47 24.5			245 12	24 30		834309
54173	BESANCON, FR.	2727	10 27	3 47 36.23			81 18	9 11		834309
54174	BESANCON, FR.	2727	10 27	3 48 04.60			81 18	7 36		834309
54044	SPETSAL, GREECE	8078	10 27	3 48 19.5			248 24	20 36		834309
54175	BESANCON, FR.	2727	10 27	3 49 03.14			81 17	4 25		834309
54045	SPETSAL, GREECE	8078	10 27	3 49 27.5			251 48	16 06		834309
54046	SPETSAL, GREECE	8078	10 27	3 50 21.5			254 00	12 42		834309
54176	BESANCON, FR.	2727	10 27	3 58 38.43			274 18	60 40		834309
54177	BESANCON, FR.	2727	10 27	3 50 01.76			267 23	74 26		834309
54178	BESANCON, FR.	2727	10 27	3 52 12.15			124 48	79 41		834309
54179	BESANCON, FR.	2727	10 27	3 53 06.44			110 35	63 07		834309
54180	BESANCON, FR.	2727	10 27	3 54 20.37			109 05	57 30		834309
54181	BESANCON, FR.	2727	10 27	3 55 29.44			107 37	48 39		834309
54182	BESANCON, FR.	2727	10 27	3 56 05.11			106 54	42 30		834309
54183	BESANCON, FR.	2727	10 27	3 57 04.00			106 21	35 25		834309
54184	BESANCON, FR.	2727	10 27	3 58 21.32			105 58	28 29		834309
54185	BESANCON, FR.	2727	10 27	3 59 27.86			105 41	21 42		834309
54186	BESANCON, FR.	2727	10 27	3 50 23.41			105 34	17 21		834309
34835	DENVER, COLO.	8582	10 27	9 25 24.0			59 24	62 15 00		845303
11001	JUPITER, BN, FLA.	9010	10 27	9 28 41.79	1 17 00	79 21				434013
34885	ADELAIDE, AUSTR.	0400	10 27	10 41 10.8			144	75 75		845302
10998	WOOMERA, BN, AUSTR.	9003	10 27	10 41 27.40	0 18 36	-57 42				434023
34837	KANSAS CITY, MO.	0036	10 27	11 28 57.0			317	47 12		845303
34838	KANSAS CITY, MO.	0036	10 27	11 30 25.2			334 30	54		845303
34836	DENVER, COLO.	8582	10 27	11 32 44.1			54 45 00	39 06		845303
34839	KANSAS CITY, MO.	0036	10 27	11 34 08.5			36	52 18		845303
11002	WOOMERA, BN, AUSTR.	9003	10 27	12 44 41.57	21 23 12	-6 41				434013
34859	SACRAMENTO, CAL.	8517	10 27	13 32 26.8	10 54 42	64 03				641013
35125	ASAHIKAWA, JAPAN	0201	10 27	15 20 36.3	9 07 48	22 12				845002
54420	TULEAR, MADAG.	6404	10 27	16 26 30.0			210 12	5 42		845309
54421	TULEAR, MADAG.	6404	10 27	16 27 00.0			204 24	7 12		845309
54422	TULEAR, MADAG.	6404	10 27	16 28 00.0			200 06	10 36		845309
54423	TULEAR, MADAG.	6404	10 27	16 29 00.0			195 12	13 54		845309
54424	TULEAR, MADAG.	6404	10 27	16 31 00.0			181 54	21 00		845309
54425	TULEAR, MADAG.	6404	10 27	16 32 00.0			172 18	24 48		845309
54426	TULEAR, MADAG.	6404	10 27	16 33 00.0			162 42	27 18		845309
54427	TULEAR, MADAG.	6404	10 27	16 34 00.0			151 42	29 00		845309
54428	TULEAR, MADAG.	6404	10 27	16 35 00.0			140 00	28 18		845309
54429	TULEAR, MADAG.	6404	10 27	16 36 00.0			128 48	27 48		845309
54430	TULEAR, MADAG.	6404	10 27	16 37 00.0			118 24	26 42		845309
54431	TULEAR, MADAG.	6404	10 27	16 38 00.0			109 48	24 12		845309
54432	TULEAR, MADAG.	6404	10 27	16 39 00.0			102 00	21 06		845309
54433	TULEAR, MADAG.	6404	10 27	16 40 00.0			95 24	18 06		845309
35128	KAGOSHIMA, JAPAN	0218	10 27	17 17 46.8	9 46	53 54				845002
35127	YATSUSHIRO, JAPAN	0272	10 27	17 18 39			45 00	27 24		845302
11008	OLIFANTSFTN, BN, S.A.F.	9002	10 27	18 30 22.99	16 30 54	-56 47				434023
54434	TULEAR, MADAG.	6404	10 27	18 30 30.0			223 00	8 00		845309
54435	TULEAR, MADAG.	6404	10 27	18 31 00.0			223 30	9 42		845309
54436	TULEAR, MADAG.	6404	10 27	18 32 00.0			224 12	14 30		845309
54437	TULEAR, MADAG.	6404	10 27	18 33 00.0			224 42	19 36		845309
54438	TULEAR, MADAG.	6404	10 27	18 34 00.0			225 00	25 18		845309
54439	TULEAR, MADAG.	6404	10 27	18 35 00.0			227 00	32 18		845309
54440	TULEAR, MADAG.	6404	10 27	18 36 00.0			229 18	41 00		845309
35216	PRETORIA, S.AFR.	8575	10 27	18 36 34.6	0 47	-43 36				845042
54441	TULEAR, MADAG.	6404	10 27	18 37 00.0			233 18	51 18		845309
54442	TULEAR, MADAG.	6404	10 27	18 38 00.0			241 00	62 54		845309
35129	KAGOSHIMA, JAPAN	0218	10 27	19 15 57	1 41 42	63 48				845002
54229	BLAGOVESHCHENSK, USSR	1010	10 27	19 16 06.0	5 17 00	29 48				845009
34840	TAIPEI, TAIWAN	0502	10 27	19 16 06.6	2 48	85 48				845042
34841	TAIPEI, TAIWAN	0502	10 27	19 19 00.2	12 14	75 18				845042
35126	KONKO, JAPAN	0224	10 27	19 19 49.4	6 22 30	79 35				845002
54230	BLAGOVESHCHENSK, USSR	1010	10 27	19 22 41.0	9 38 00	30 24				845009
34882	BAGUIO CITY, PH. IS.	0504	10 27	21 15 21			330	5		845302
34883	BAGUIO CITY, PH. IS.	0504	10 27	21 22 17			1 03 00	10 34 48		845302
34884	BAGUIO CITY, PH. IS.	0504	10 27	21 31 00.5			43 54	3 30		845302
11004	SHIRAZ, BN, IRAN	9008	10 27	23 13 46.05	10 54 36	62 34				434013
11003	NAINI TAL, BN, INDIA	9006	10 27	23 19 00.73	12 47 00	75 51				434013
11005	AREQUIPA, BN, PERU	9007	10 28	0 28 49.20	3 08 42	-59 29				434023
54106	EL GULEA, ALG.	6411	10 28	3 04 00.0			352 18	39 36		845309
54107	EL GULEA, ALG.	6411	10 28	3 05 00.0			1 48	37 48		845309
54108	EL GULEA, ALG.	6411	10 28	3 06 00.0			10 12	35 00		845309
35103	BOCHUM, GER.	8599	10 28	3 06 36.6	4 19 54	21 12				845002
54109	EL GULEA, ALG.	6411	10 28	3 07 00.0			18 12	31 42		845309

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54120	EL GULLA. ALG.	6411	10 28	3 00 00.0			73 54	28 30		040309
54111	EL GULLA. ALG.	6411	10 28	3 09 06.0			79 54	25 00		040309
54144	SPETSAL. GR.	8078	10 28	3 09 18.0			127 10	39 48		040309
54112	EL GULLA. ALG.	6411	10 28	3 10 00.0			35 00	21 00		040309
54143	SPETSAL. GR.	8078	10 28	3 10 04.0			138 33	40 33		040309
54113	EL GULLA. ALG.	6411	10 28	3 11 00.0			50 10	17 33		040309
35104	BOCHUM. GER.	8599	10 28	3 11 43	7 32 30	31 46				040309
54146	SPETSAL. GR.	8078	10 28	3 11 52.0			130 12	49 30		040309
54114	EL GULLA. ALG.	6411	10 28	3 12 00.0			42 16	14 36		040309
54147	SPETSAL. GR.	8078	10 28	3 12 10.0			101 48	28 00		040309
54115	EL GULLA. ALG.	6411	10 28	3 13 00.0			45 10	14 00		040309
54148	SPETSAL. GR.	8078	10 28	3 13 07.0			100 30	31 36		040309
54116	EL GULLA. ALG.	6411	10 28	3 14 00.0			47 14	9 16		040309
54149	SPETSAL. GR.	8078	10 28	3 14 30.0			100 00	26 00		040309
54150	SPETSAL. GR.	8078	10 28	3 15 19.0			100 42	47 00		040309
54151	SPETSAL. GR.	8078	10 28	3 16 14.0			117 00	44 00		040309
35105	BOCHUM. GER.	8599	10 28	3 16 43.0	11 46 45	20 46				040309
54152	SPETSAL. GR.	8078	10 28	3 17 10.0			127 36	38 16		040309
35106	BOCHUM. GER.	8599	10 28	3 17 53.0	11 46 46	17 00				040309
54153	SPETSAL. GR.	8078	10 28	3 18 10.0			132 04	24 00		040309
54154	SPETSAL. GR.	8078	10 28	3 19 00.0			137 00	10 46		040309
54155	SPETSAL. GR.	8078	10 28	3 20 00.0			145 00	16 16		040309
54156	SPETSAL. GR.	8078	10 28	3 21 00.0			150 16	22 16		040309
54157	SPETSAL. GR.	8078	10 28	3 22 00.0			156 00	28 16		040309
54158	SPETSAL. GR.	8078	10 28	3 23 00.0			164 00	34 16		040309
54159	SPETSAL. GR.	8078	10 28	3 24 00.0			170 00	40 16		040309
35107	BOCHUM. GER.	8599	10 28	3 25 00.0	11 47 00	29 49				040309
35108	BOCHUM. GER.	8599	10 28	3 26 00.0	11 47 01	31				040309
55428	POTSDAM	2729	10 28	3 26 10.0	11 47 02	28 16				040309
55429	POTSDAM	2729	10 28	3 27 00.0	11 47 03	28 16				040309
35109	BOCHUM. GER.	8599	10 28	3 27 00.0	11 47 04	28 16				040309
35110	BOCHUM. GER.	8599	10 28	3 28 00.0	11 47 05	28 16				040309
34842	ST. PETERBURG. FUA.	1111	10 28	3 28 00.0	11 47 06	28 16				040309
34843	ST. PETERBURG. FUA.	1111	10 28	3 29 00.0	11 47 07	28 16				040309
34844	ST. PETERBURG. FUA.	1111	10 28	3 30 00.0	11 47 08	28 16				040309
11112	BOCHUM. GER.	8599	10 28	3 31 00.0	11 47 09	28 16				040309
14845	CHINA JAPAN	1000	10 28	3 32 00.0	11 47 10	28 16				040309
14846	CHINA JAPAN	1000	10 28	3 33 00.0	11 47 11	28 16				040309
14847	CHINA JAPAN	1000	10 28	3 34 00.0	11 47 12	28 16				040309
14848	CHINA JAPAN	1000	10 28	3 35 00.0	11 47 13	28 16				040309
14849	CHINA JAPAN	1000	10 28	3 36 00.0	11 47 14	28 16				040309
14850	CHINA JAPAN	1000	10 28	3 37 00.0	11 47 15	28 16				040309
14851	CHINA JAPAN	1000	10 28	3 38 00.0	11 47 16	28 16				040309
14852	CHINA JAPAN	1000	10 28	3 39 00.0	11 47 17	28 16				040309
14853	CHINA JAPAN	1000	10 28	3 40 00.0	11 47 18	28 16				040309
14854	CHINA JAPAN	1000	10 28	3 41 00.0	11 47 19	28 16				040309
14855	CHINA JAPAN	1000	10 28	3 42 00.0	11 47 20	28 16				040309
14856	CHINA JAPAN	1000	10 28	3 43 00.0	11 47 21	28 16				040309
14857	CHINA JAPAN	1000	10 28	3 44 00.0	11 47 22	28 16				040309
14858	CHINA JAPAN	1000	10 28	3 45 00.0	11 47 23	28 16				040309
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14865	CHINA JAPAN	1000	10 28	3 52 00.0	11 47 30	28 16				040309
14866	CHINA JAPAN	1000	10 28	3 53 00.0	11 47 31	28 16				040309
14867	CHINA JAPAN	1000	10 28	3 54 00.0	11 47 32	28 16				040309
14868	CHINA JAPAN	1000	10 28	3 55 00.0	11 47 33	28 16				040309
14869	CHINA JAPAN	1000	10 28	3 56 00.0	11 47 34	28 16				040309
14870	CHINA JAPAN	1000	10 28	3 57 00.0	11 47 35	28 16				040309
14871	CHINA JAPAN	1000	10 28	3 58 00.0	11 47 36	28 16				040309
14872	CHINA JAPAN	1000	10 28	3 59 00.0	11 47 37	28 16				040309
14873	CHINA JAPAN	1000	10 28	4 00 00.0	11 47 38	28 16				040309
14874	CHINA JAPAN	1000	10 28	4 01 00.0	11 47 39	28 16				040309
14875	CHINA JAPAN	1000	10 28	4 02 00.0	11 47 40	28 16				040309
14876	CHINA JAPAN	1000	10 28	4 03 00.0	11 47 41	28 16				040309
14877	CHINA JAPAN	1000	10 28	4 04 00.0	11 47 42	28 16				040309
14878	CHINA JAPAN	1000	10 28	4 05 00.0	11 47 43	28 16				040309
14879	CHINA JAPAN	1000	10 28	4 06 00.0	11 47 44	28 16				040309
14880	CHINA JAPAN	1000	10 28	4 07 00.0	11 47 45	28 16				040309
14881	CHINA JAPAN	1000	10 28	4 08 00.0	11 47 46	28 16				040309
14882	CHINA JAPAN	1000	10 28	4 09 00.0	11 47 47	28 16				040309
14883	CHINA JAPAN	1000	10 28	4 10 00.0	11 47 48	28 16				040309
14884	CHINA JAPAN	1000	10 28	4 11 00.0	11 47 49	28 16				040309
14885	CHINA JAPAN	1000	10 28	4 12 00.0	11 47 50	28 16				040309
14886	CHINA JAPAN	1000	10 28	4 13 00.0	11 47 51	28 16				040309
14887	CHINA JAPAN	1000	10 28	4 14 00.0	11 47 52	28 16				040309
14888	CHINA JAPAN	1000	10 28	4 15 00.0	11 47 53	28 16				040309
14889	CHINA JAPAN	1000	10 28	4 16 00.0	11 47 54	28 16				040309
14890	CHINA JAPAN	1000	10 28	4 17 00.0	11 47 55	28 16				040309
14891	CHINA JAPAN	1000	10 28	4 18 00.0	11 47 56	28 16				040309
14892	CHINA JAPAN	1000	10 28	4 19 00.0	11 47 57	28 16				040309
14893	CHINA JAPAN	1000	10 28	4 20 00.0	11 47 58	28 16				040309
14894	CHINA JAPAN	1000	10 28	4 21 00.0	11 47 59	28 16				040309
14895	CHINA JAPAN	1000	10 28	4 22 00.0	11 48 00	28 16				040309
14896	CHINA JAPAN	1000	10 28	4 23 00.0	11 48 01	28 16				040309
14897	CHINA JAPAN	1000	10 28	4 24 00.0	11 48 02	28 16				040309
14898	CHINA JAPAN	1000	10 28	4 25 00.0	11 48 03	28 16				040309
14899	CHINA JAPAN	1000	10 28	4 26 00.0	11 48 04	28 16				040309
14900	CHINA JAPAN	1000	10 28	4 27 00.0	11 48 05	28 16				040309
14901	CHINA JAPAN	1000	10 28	4 28 00.0	11 48 06	28 16				040309
14902	CHINA JAPAN	1000	10 28	4 29 00.0	11 48 07	28 16				040309
14903	CHINA JAPAN	1000	10 28	4 30 00.0	11 48 08	28 16				040309
14904	CHINA JAPAN	1000	10 28	4 31 00.0	11 48 09	28 16				040309
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14906	CHINA JAPAN	1000	10 28	4 33 00.0	11 48 11	28 16				040309
14907	CHINA JAPAN	1000	10 28	4 34 00.0	11 48 12	28 16				040309
14908	CHINA JAPAN	1000	10 28	4 35 00.0	11 48 13	28 16				040309
14909	CHINA JAPAN	1000	10 28	4 36 00.0	11 48 14	28 16				040309
14910	CHINA JAPAN	1000	10 28	4 37 00.0	11 48 15	28 16				040309
14911	CHINA JAPAN	1000	10 28	4 38 00.0	11 48 16	28 16				040309
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14914	CHINA JAPAN	1000	10 28	4 41 00.0	11 48 19	28 16				040309
14915	CHINA JAPAN	1000	10 28	4 42 00.0	11 48 20	28 16				040309
14916	CHINA JAPAN	1000	10 28	4 43 00.0	11 48 21	28 16				040309
14917	CHINA JAPAN	1000	10 28	4 44 00.0	11 48 22	28 16				040309
14918	CHINA JAPAN	1000	10 28	4 45 00.0	11 48 23	28 16				040309
14919	CHINA JAPAN	1000	10 28	4 46 00.0	11 48 24	28 16				040309
14920	CHINA JAPAN	1000	10 28	4 47 00.0	11 48 25	28 16				040309
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14923	CHINA JAPAN	1000	10 28	4 50 00.0	11 48 28	28 16				040309
14924	CHINA JAPAN	1000	10 28	4 51 00.0	11 48 29	28 16				040309
14925	CHINA JAPAN	1000	10 28	4 52 00.0	11 48 30	28 16				040309
14926	CHINA JAPAN	1000	10 28	4 53 00.0	11 48 31	28 16				040309
14927	CHINA JAPAN	1000	10 28	4 54 00.0	11 48 32	28 16				

OBS NO	STATION	STA NO	DATE	TIME	R. A.	DECL.	AZIMUTH	ALTITUDE	RANGE	INDEX
11020	JUPITER BN, FLA.	9010	10 29	8 33 34.03	0 31 48	73 42				845018
11071	JUPITER BN, FLA.	9010	10 29	8 34 30.14	1 10 00	77 52				845018
34847	DENVER, COLO.	8582	10 29	8 35 30.6			63 48	35 12		845309
34895	TOWNSVILLE, AUST.	8578	10 29	9 35 01.9			115 21	28 27		845302
34898	ALPINE, CAL.	5089	10 29	10 31 42.0	11 16 00	16 54				637007
55966	ALPINE, CAL.	5089	10 29	10 31 42	11 16 00	56 54				637009
34848	DENVER, COLO.	8582	10 29	10 32 49.4			314 45 00	30 00		845303
11006	ORGAN PASS BN, N.M.	9001	10 29	10 32 53.10	2 07 42	71 07				845013
34891	SAN JOSE, CAL.	8573	10 29	10 33 07.3	8 40 00	60 33				845032
34892	SAN JOSE, CAL.	8573	10 29	10 37 15.4	10 48 42	43 58				845032
34855	NEW ORLEANS, LA.	0030	10 29	10 35 02			0 00	30 00		845302
34861	SACRAMENTO, CAL.	8537	10 29	12 36 44.4			0 00	53 36		641304
34849	DENVER, COLO.	8582	10 29	12 38 16.8			320 15 00	34 42		845303
34853	SAN JOSE, CAL.	8573	10 29	12 38 51.4	10 27 36	63 17				845032
34854	SAN JOSE, CAL.	8573	10 29	12 43 27.1	11 48 36	53 45				845042
34890	DENVER, COLO.	8582	10 29	12 47 49.4			39 06	65 18		845303
34893	TULEAR, MADAG.	6404	10 29	17 38 00.0			218 30	12 12		645309
34895	TULEAR, MADAG.	6404	10 29	17 39 00.0			217 48	17 42		845309
34897	TULEAR, MADAG.	6404	10 29	17 40 00.0			216 42	26 06		845309
34898	TULEAR, MADAG.	6404	10 29	17 41 00.0			216 18	29 48		845309
34899	TULEAR, MADAG.	6404	10 29	17 42 00.0			214 42	38 30		845309
34900	TULEAR, MADAG.	6404	10 29	17 43 00.0			212 42	40 36		845309
35219	PRETORIA, S.AFR.	8575	10 29	17 43 38.7	1 45	-01 54				845042
34901	TULEAR, MADAG.	6404	10 29	17 44 30.0			208 12	61 42		845309
34902	TULEAR, MADAG.	6404	10 29	17 45 00.0			194 36	76 06		845309
34903	TULEAR, MADAG.	6404	10 29	17 46 00.0			98 30	87 00		845309
34904	TAIPEI, TAIWAN	0932	10 29	18 24 49.7	11 45	69 30				845042
35138	ASAHIKAWA, JAPAN	0231	10 29	18 25 56.4	-4 03	50 12				845002
35139	SAPPORO, JAPAN	0245	10 29	18 31 09	11 41	49				845002
34904	TULEAR, MADAG.	6404	10 29	19 43 30.0			257 24	11 00		845309
34905	TULEAR, MADAG.	6404	10 29	19 44 30.0			262 42	13 42		845309
35171	BAGUIO CITY, PH.IS.	0504	10 29	20 25 12			346 18 48	9 37 48		845302
35172	BLAGOVESHCHENSK, USSR	1010	10 29	20 27 10.0	5 16 00	34 54				845009
35172	BAGUIO CITY, PH.IS.	0504	10 29	20 27 58.7			0 00	10 36		845302
35140	ASAHIKAWA, JAPAN	0201	10 29	20 30 25.0	5 25 00	47 30				845002
35173	BAGUIO CITY, PH.IS.	0504	10 29	20 33 19.7			26 24	7 37 12		845302
34974	BLAGOVESHCHENSK, USSR	1010	10 29	20 33 28.0	8 37 00	33 30				845009
35174	BAGUIO CITY, PH.IS.	0504	10 29	20 37 50.7			45 00	1 30		845302
11016	MAINI TAL BN, INDIA	9006	10 29	22 20 09.25	0 55 06	69 58				845013
34992	STALINABAD, USSR	1068	10 29	22 22 28.8	9 09 48	61 36				845009
34993	STALINABAD, USSR	1068	10 29	22 25 55.2	11 07 54	44 48				845009
35019	ANTOFAGASTA, CHILE	0804	10 29	23 33 32.5	2 49	-68 30				845042
35020	ANTOFAGASTA, CHILE	0804	10 29	23 35 10.3	2 42 30	-51 10				845042
34902	KRASNOJAR, USSR	1027	10 30	0 18 52.1	8 44	48 36				845009
34994	STALINABAD, USSR	1068	10 30	0 19 15.0	1 55 18	41 12				845009
34903	KRASNOJAR, USSR	1027	10 30	0 19 31.4	7 26	48 18				845009
11019	SHIRAZ BN, IRAN	9008	10 30	0 19 34.82	1 16 00	76 19				845013
34995	STALINABAD, USSR	1068	10 30	0 21 30.5	2 40 30	53 18				845009
34996	STALINABAD, USSR	1068	10 30	0 30 44.7	12 12 42	39 36				845009
35021	ANTOFAGASTA, CHILE	0804	10 30	1 35 36.3	19 48	-40 00				845042
35022	ANTOFAGASTA, CHILE	0804	10 30	1 39 06	23 17	-9 42				845042
34936	SPETSAL, GR.	8078	10 30	2 17 39.5			157 00	51 00		834309
34937	SPETSAL, GR.	8078	10 30	2 19 26.5			183 12	52 16		834309
34938	SPETSAL, GR.	8078	10 30	2 20 51.0			202 30	48 54		834309
34975	ROSTOV, USSR	1041	10 30	2 21 07.3	5 31 00	44 30				845009
34976	UGOROD, USSR	1055	10 30	2 22 25.9	9 14 00	36 30				845009
34939	SPETSAL, GR.	8078	10 30	2 23 06.5			224 00	35 00		834309
34940	SPETSAL, GR.	8078	10 30	2 24 32.5			232 36	34 18		834309
34941	SPETSAL, GR.	8078	10 30	2 25 59.5			238 54	25 46		834309
34942	SPETSAL, GR.	8078	10 30	2 27 34.5			243 06	19 18		834309
34943	SPETSAL, GR.	8078	10 30	2 30 39.5			251 06	8 48		634309
35111	BOCHUM, GER.	8599	10 30	4 15 31.5	3 28 30	25 36				845002
35112	BOCHUM, GER.	8599	10 30	4 18 31.3	5 36 45	31 51				845002
34852	DENVER, COLO.	8582	10 30	8 09 22.8			63 54 00	28 45 00		845303
34856	N. CANTON, OHIO	8565	10 30	8 12 42.1	9 46 30	49 15				845043
34863	FT. WORTH, TEX.	0139	10 30	10 10 45.4	8 46 30	81 42				845013
34857	N. CANTON, OHIO	8565	10 30	10 10 52.7	3 22 30	53 28				845043
34858	ROCHESTER, N.Y.	8564	10 30	10 15 11.4	7 33 18	57 19				845034
34896	PERTH, AUST.	0601	10 30	11 13 03.9			226 55	9 40		643302
34897	PERTH, AUST.	0601	10 30	11 18 53.7			194 05	49 15		643302
11027	WOOMER BN, AUST.	9003	10 30	11 25 49.73	22 06 06	-7 36				845013
34898	PERTH, AUST.	0601	10 30	11 28 50.1			67 55	12 30		643302
34854	SACRAMENTO, CAL.	8517	10 30	12 09 13.6			0 00	56 08		641304
35141	KAGOSHIMA, JAPAN	0218	10 30	16 01 36	10 09	38 00				845002
11010	OLIFANTSFENT BN, S.AF	9002	10 30	17 09 36.70	14 33 12	-59 14				845023
34966	TULEAR, MADAG.	6404	10 30	17 11 00.0			215 54	12 12		845309
34967	TULEAR, MADAG.	6404	10 30	17 12 00.0			214 30	17 30		845309
34968	TULEAR, MADAG.	6404	10 30	17 13 00.0			213 06	23 18		845309
34969	TULEAR, MADAG.	6404	10 30	17 14 00.0			210 42	30 18		845309
34970	TULEAR, MADAG.	6404	10 30	17 15 00.0			207 36	38 42		845309
34971	TULEAR, MADAG.	6404	10 30	17 16 00.0			202 24	49 12		845309
34972	TULEAR, MADAG.	6404	10 30	17 17 00.0			192 00	60 54		845309
34973	TULEAR, MADAG.	6404	10 30	17 18 00.0			165 24	72 30		845309
34974	TULEAR, MADAG.	6404	10 30	17 20 00.0			72 36	64 12		845309
34975	TULEAR, MADAG.	6404	10 30	17 21 00.0			60 48	53 12		845309
35142	ASAHIKAWA, JAPAN	0201	10 30	17 58 37.7	4 40 00	48 18				845002
35143	KAGOSHIMA, JAPAN	0218	10 30	18 02 00	11 16	60 48				845002
34976	TULEAR, MADAG.	6404	10 30	19 16 30.3			256 36	13 18		845309
34977	TULEAR, MADAG.	6404	10 30	19 17 00.0			259 36	14 48		845309
11011	OLIFANTSFENT BN, S.AF	9002	10 30	19 17 34.40	20 09 24	-16 41				845013
35144	KAGOSHIMA, JAPAN	0218	10 30	19 59 04	1 22	60 00				845002
35175	BAGUIO CITY, PH.IS.	0504	10 30	20 01 35.2			4 16 48	10 34 12		845302
35176	BAGUIO CITY, PH.IS.	0504	10 30	20 05 56.2			25 15 00	7 24 00		845302
35177	BAGUIO CITY, PH.IS.	0504	10 30	20 09 36.4			40 19 48	2 31 48		845302

Obs No	STATION	STA NO	DATE	TIME	R ₀ A ₀	DECL.	AZIMUTH	ALTITUDE	RANGE	INDEX
11017	NAINI TAL'BN, INDIA	9006	10 30	21 56 18.66	9 40 00	84 16				434013
11018	SHIRAZ'BN, IRAN	9008	10 30	23 53 19.03	1 55 06	82 02				434013
11031	VILLA DOLORES'BN, ARG	9011	10 31	1 11 48.64	21 42 54	7 03				444013
11030	AREQUIPA'BN, PERU	9007	10 31	1 13 09.90	0 13 54	-37 40				434023
54201	KRASNOGAR, USSR	1027	10 31	1 55 11.9	6 00	53 30				845009
54209	ASTRAKHAN, USSR	1005	10 31	1 57 06.6	6 18 00	44 18				845009
54200	ASTRAKHAN, USSR	1009	10 31	2 00 12.4	9 17 00	38 18				845009
54207	ROSTOV, USSR	1041	10 31	2 01 28.9	10 52 08	24 42				845009
54208	ROSTOV, USSR	1041	10 31	2 02 14.4	11 11 30	20 48				845009
54250	EL GULEA, ALG.	6411	10 31	3 53 00.0			12 48	32 54		845309
54271	EL GULEA, ALG.	6411	10 31	3 54 00.0			19 42	32 48		845309
54258	EL GULEA, ALG.	6411	10 31	3 55 00.0			27 42	29 30		845309
54259	EL GULEA, ALG.	6411	10 31	3 56 00.0			35 18	26 42		845309
54260	EL GULEA, ALG.	6411	10 31	3 57 00.0			40 54	23 30		845309
54261	EL GULEA, ALG.	6411	10 31	3 58 00.0			45 24	21 12		845309
54262	EL GULEA, ALG.	6411	10 31	3 59 00.0			50 06	17 00		845309
54263	EL GULEA, ALG.	6411	10 31	4 00 00.0			54 24	14 30		845309
54264	EL GULEA, ALG.	6411	10 31	4 01 00.0			57 30	11 54		845309
54265	EL GULEA, ALG.	6411	10 31	4 02 00.0			60 36	9 12		845309
54266	EL GULEA, ALG.	6411	10 31	4 03 00.0			63 42	6 18		845309
54267	EL GULEA, ALG.	6411	10 31	4 04 00.0			65 54	3 48		845309
54865	N. CANTON, CHINA	8544	10 31	5 46 18.3	9 24 15	26 55				845042
11025	ORGAN PASS'BN, N.M.	9001	10 31	9 44 20.40	10 54 12	61 53				434013
54849	COLUMBUS, OHIO	0051	10 31	9 46 30.8			0 00	61 30		845303
11028	WOOMERA'BN, AUST.	9003	10 31	10 56 33.17	19 46 34	-31 58				434023
54850	TOWNSVILLE, AUST.	8578	10 31	11 03 26.2			317 37	79 51		845302
54851	TOWNSVILLE, AUST.	8578	10 31	11 03 26.9			319 22	79 58		845302
54852	TOWNSVILLE, AUST.	8578	10 31	11 03 26.9			315 19	79 57		845302
54853	TOWNSVILLE, AUST.	8578	10 31	11 03 26.9			0 00	56 32		845304
54854	SACRAMENTO, CAL.	8517	10 31	11 41 36.5						845013
54855	FT. WORTH, TEX.	0139	10 31	11 48 19.6	7 08 00	79 06				845013
11026	ORGAN PASS'BN, N.M.	9001	10 31	11 49 31.00	12 14 06	58 11				434013
54867	SACRAMENTO, CAL.	8517	10 31	13 47 47.4			0 00	67 35		845304
54145	MITAKA, JAPAN	0229	10 31	15 35 11.4			55 12	18 48		845303
54380	TULEAR, MADAG.	6404	10 31	16 43 00.0			215 12	7 18		845309
54381	TULEAR, MADAG.	6404	10 31	16 44 00.0			213 36	12 48		845309
54382	TULEAR, MADAG.	6404	10 31	16 45 00.0			212 00	16 36		845309
54383	TULEAR, MADAG.	6404	10 31	16 46 00.0			209 30	22 00		845309
54384	TULEAR, MADAG.	6404	10 31	16 47 00.0			206 00	29 00		845309
54385	TULEAR, MADAG.	6404	10 31	16 48 00.0			201 36	36 48		845309
54386	TULEAR, MADAG.	6404	10 31	16 49 00.0			195 00	46 18		845309
54387	TULEAR, MADAG.	6404	10 31	16 50 00.0			170 18	61 18		845309
54388	TULEAR, MADAG.	6404	10 31	16 51 00.0			155 36	65 54		845309
54389	TULEAR, MADAG.	6404	10 31	16 52 00.0			117 18	66 18		845309
54390	TULEAR, MADAG.	6404	10 31	16 53 00.0			86 42	59 00		845309
54391	TULEAR, MADAG.	6404	10 31	16 54 00.0			72 48	50 06		845309
54392	TULEAR, MADAG.	6404	10 31	16 55 00.0			64 30	41 06		845309
54393	TOKYO'BN, JAPAN	9005	10 31	17 32 55.40	5 38 00	75 46				434013
54146	MITAKA, JAPAN	0229	10 31	17 33 10.2			5 12	49 24		845303
54147	YATSUMIRO, JAPAN	0272	10 31	17 35 40			84 06	25 00		845302
54148	SAPPORO, JAPAN	0245	10 31	17 38 21	10 18	42				845002
54394	TULEAR, MADAG.	6404	10 31	18 48 00.0			247 24	9 54		845309
54395	TULEAR, MADAG.	6404	10 31	18 49 00.0			251 48	12 54		845309
11029	OLIFANTS'BN, S.AF	9002	10 31	18 49 03.16	18 50 06	-28 48				434023
54396	TULEAR, MADAG.	6404	10 31	18 50 00.0			257 12	16 30		845309
54397	TULEAR, MADAG.	6404	10 31	18 51 00.0			264 00	20 12		845309
54398	TULEAR, MADAG.	6404	10 31	18 52 00.0			271 54	23 24		845309
54399	TULEAR, MADAG.	6404	10 31	18 53 00.0			280 24	26 06		845309
54150	KAGOSHIMA, JAPAN	0218	10 31	19 30 49	0 40	55 18				845002
54151	KASHIWA'BN, JAPAN	0222	10 31	19 34 44	1 28	67				845002
54152	YATSUMIRO, JAPAN	0272	10 31	19 36 09			0 00	39 12		845302
54153	MITAKA, JAPAN	0229	10 31	19 36 29.8			336 12	44 36		845303
11034	TOKYO'BN, JAPAN	9005	10 31	19 40 51.60	10 54 42	62 07				434013
54154	KANAYA MACHI, JAPAN	0220	10 31	19 41 11.4	12 00	55 24				845002
54155	YOKKAICHI, JAPAN	0258	10 31	19 41 33	11 49	53				845002
54156	SAPPORO, JAPAN	0245	10 31	19 41 35	10 10	41				845002
11035	NAINI TAL'BN, INDIA	9006	10 31	21 31 27.60	11 24 36	68 53				434013
11040	SHIRAZ'BN, IRAN	9008	10 31	23 29 45.65	11 29 24	70 05				434013
11046	NAINI TAL'BN, INDIA	9006	10 31	23 40 58.87	13 04 24	39 26				434013
11042	VILLA DOLORES'BN, ARG	9011	11 01	0 43 37.93	20 44 00	-6 00				434013
11039	AREQUIPA'BN, PERU	9007	11 01	0 46 46.23	0 51 12	-34 00				434023
54268	EL GULEA, ALG.	6411	11 01	1 28 00.0			41 48	15 00		845309
54269	EL GULEA, ALG.	6411	11 01	1 29 00.0			43 48	11 12		845309
54270	EL GULEA, ALG.	6411	11 01	1 30 00.0			45 42	8 42		845309
54271	EL GULEA, ALG.	6411	11 01	1 31 00.0			47 36	5 54		845309
54272	EL GULEA, ALG.	6411	11 01	1 32 00.0			49 06	3 18		845309
11041	SHIRAZ'BN, IRAN	9008	11 01	1 36 38.31	12 34 12	56 46				434013
11032	SAN FERNANDO'BN, SP.	9004	11 01	3 21 41.90	3 46 12	+72 22				434023
55830	POTSOM	2729	11 01	3 22 08.1	3 41 36	22 36				834049
55831	POTSOM	2729	11 01	3 23 55.5	4 17 00	27 23				834049
55832	POTSOM	2729	11 01	3 27 12.6	6 41 54	31 00				834049
55833	POTSOM	2729	11 01	3 29 23.7	8 22 33	26 30				834049
55834	POTSOM	2729	11 01	3 31 39.2	9 41 36	18 35				834049
55835	POTSOM	2729	11 01	3 33 08.2	10 19 48	13 18				834049
55836	POTSOM	2729	11 01	3 36 08.4	11 15 30	3 49				834049
11033	SAN FERNANDO'BN, SP.	9004	11 01	5 29 16.00	9 18 48	67 34				434013
55186	DENVER, COLO.	8592	11 01	9 17 03.0			49 24	44 42 00		845303
54700	NEW ORLEANS, LA.	0030	11 01	9 17 13			0 00	36 00		845302
54701	ADRIATIDE, AUST.	0650	11 01	10 30 46.8			311 49	58 15		845302
11037	WOOMERA'BN, AUST.	9003	11 01	10 31 38.25	21 53 30	-20 22				434013
54702	SACRAMENTO, CAL.	8517	11 01	11 14 33.1			0 00	57 07		845304
54704	FT. WORTH, TEX.	0139	11 01	11 21 07.8	7 34 00	79 48				845013
54701	NEW ORLEANS, LA.	0030	11 01	11 23 03			0 00	42 00		845302
55187	DENVER, COLO.	8592	11 01	11 24 37.2			71 54	37 45 00		845303

OBS NO	STATION	STA NO	DATE	TIME	R. A.	DECL.	AZIMUTH	ALTITUDE	RANGE	INDEX
11045	MAUI BN. HAWAII	9012	11 01	13 13 33.33	12 51 48	76 19				434013
34903	SACRAMENTO, CAL.	8517	11 01	13 20 20.6			0 00	65 13		441304
54399	TULEAR, MADAG.	6404	11 01	16 19 30.0			219 24	15 54		845309
54400	TULEAR, MADAG.	6404	11 01	16 20 00.0			217 06	19 00		845309
54401	TULEAR, MADAG.	6404	11 01	16 21 00.0			203 24	25 54		845309
54402	TULEAR, MADAG.	6404	11 01	16 22 30.0			194 36	35 48		845309
54403	TULEAR, MADAG.	6404	11 01	16 24 00.0			178 06	48 30		845309
54404	TULEAR, MADAG.	6404	11 01	16 25 00.0			157 36	55 54		845309
54405	TULEAR, MADAG.	6404	11 01	16 26 00.0			128 54	58 54		845309
54406	TULEAR, MADAG.	6404	11 01	16 27 00.0			112 06	55 54		845309
54407	TULEAR, MADAG.	6404	11 01	16 28 00.0			84 30	47 48		845309
54408	TULEAR, MADAG.	6404	11 01	16 29 30.0			65 12	29 48		845309
54409	TULEAR, MADAG.	6404	11 01	16 31 00.0			63 00	26 54		845309
54410	TULEAR, MADAG.	6404	11 01	16 32 00.0			60 18	22 18		845309
35393	ASAHKAWA, JAPAN	D201	11 01	17 09 31.0	8 56 00	46 17				845002
54411	TULEAR, MADAG.	6404	11 01	18 23 30.0			247 30	13 00		845309
35220	PRETORIA, S. AFR.	8575	11 01	18 23 43.2	19 53	-26 36				845042
54412	TULEAR, MADAG.	6404	11 01	18 24 00.0			250 00	15 00		845309
54413	TULEAR, MADAG.	6404	11 01	18 25 00.0			255 36	19 00		845309
54414	TULEAR, MADAG.	6404	11 01	18 26 00.0			262 18	22 48		845309
54415	TULEAR, MADAG.	6404	11 01	18 27 00.0			270 24	27 00		845309
54416	TULEAR, MADAG.	6404	11 01	18 28 30.0			286 06	31 30		845309
54417	TULEAR, MADAG.	6404	11 01	18 29 00.0			292 00	32 18		845309
54418	TULEAR, MADAG.	6404	11 01	18 30 00.0			302 36	33		845309
35394	KAGOSHIMA, JAPAN	D218	11 01	19 05 45	1 10	68 30				845002
35178	BAGUIO CITY, PH. IS.	D504	11 01	21 09 08			347	10 42		845302
35179	BAGUIO CITY, PH. IS.	D504	11 01	21 14 01.7			12 06	16 24		845302
35180	BAGUIO CITY, PH. IS.	D504	11 01	21 16 51.8			29 04 12	16 31 12		845302
35181	BAGUIO CITY, PH. IS.	D504	11 01	21 20 27.7			49 36 36	12 49 48		845302
11043	SHIRAZ BN. IRAN	9008	11 01	23 05 09.00	11 40 54	54 32				434013
11038	NAINI TAL BN. INDIA	9006	11 01	23 08 17.53	11 37 24	76 02				434013
11048	VILLA OLORES BN. ARG.	9011	11 02	0 18 20.60	22 02 06	5 16				434013
55837	POTSDAM	2729	11 02	0 58 25.1	7 22 06	26 15				834049
55838	POTSDAM	2729	11 02	1 00 24.8	8 28 06	23 45				834049
55839	POTSDAM	2729	11 02	1 02 23.0	9 18 00	20 02				834049
55840	POTSDAM	2729	11 02	1 04 32.2	9 58 48	15 42				834049
55841	POTSDAM	2729	11 02	1 05 51.0	10 18 42	13 06				834049
11044	SHIRAZ BN. IRAN	9008	11 02	1 09 11.92	12 20 36	57 54				434013
55842	POTSDAM	2729	11 02	2 56 14.5	3 46 54	26 15				834049
54206	MEUDON, FR.	2715	11 02	2 56 14.50			237 48	76 42		637109
54207	MEUDON, FR.	2715	11 02	2 57 15.60			183 56	83 31		637109
54304	SPETSAL, GR.	8078	11 02	2 57 42.5			131 18	33 06		834309
54208	MEUDON, FR.	2715	11 02	2 58 09.20			122 49	79 10		637109
54305	SPETSAL, GR.	8078	11 02	2 58 12.5			133 42	55 24		834309
55843	POTSDAM	2729	11 02	2 58 16.7	5 07 42	30 48				834049
54209	MEUDON, FR.	2715	11 02	2 59 11.20			164 17	69 37		637109
54306	SPETSAL, GR.	8078	11 02	2 59 33.5			141 48	42 12		834309
54307	SPETSAL, GR.	8078	11 02	3 00 05.5			145 54	45 00		834309
55844	POTSDAM	2729	11 02	3 00 15.1	6 41 12	31 21				834049
54210	MEUDON, FR.	2715	11 02	3 00 16.10			98 05	59 42		637109
54308	SPETSAL, GR.	8078	11 02	3 01 08.5			156 00	50 06		834309
54211	MEUDON, FR.	2715	11 02	3 01 11.20			95 31	51 57		637109
54212	MEUDON, FR.	2715	11 02	3 02 01.60			94 08	45 35		637109
54309	SPETSAL, GR.	8078	11 02	3 02 18.5			171 18	54 36		834309
55845	POTSDAM	2729	11 02	3 02 40.2	8 29 18	25 48				834049
54213	MEUDON, FR.	2715	11 02	3 03 11.30			92 47	37 45		637109
54310	SPETSAL, GR.	8078	11 02	3 03 31.5			191 24	56 48		834309
54311	SPETSAL, GR.	8078	11 02	3 04 05.5			201 18	56 30		834309
54214	MEUDON, FR.	2715	11 02	3 04 07.00			92 10	32 13		637109
55846	POTSDAM	2729	11 02	3 05 02.6	9 44 36	17 29				834049
54312	SPETSAL, GR.	8078	11 02	3 05 13.5			219 30	53 42		834309
54215	MEUDON, FR.	2715	11 02	3 05 18.20			91 35	25 58		637109
54216	MEUDON, FR.	2715	11 02	3 06 12.10			91 18	21 46		637109
54313	SPETSAL, GR.	8078	11 02	3 06 30.5			235 12	48 00		834309
54314	SPETSAL, GR.	8078	11 02	3 07 04.5			240 36	45 06		834309
54217	MEUDON, FR.	2715	11 02	3 07 12.80			91 04	17 28		637109
55847	POTSDAM	2729	11 02	3 07 14.6	10 32 54	10 09				834049
54315	SPETSAL, GR.	8078	11 02	3 08 27.5			250 36	37 36		834309
54316	SPETSAL, GR.	8078	11 02	3 09 05.5			254 06	34 18		834309
54317	SPETSAL, GR.	8078	11 02	3 10 20.5			259 30	28 06		834309
55848	POTSDAM	2729	11 02	3 10 22.5	11 20 54	1 25				834049
54318	SPETSAL, GR.	8078	11 02	3 11 10.5			262 12	24 18		834309
54319	SPETSAL, GR.	8078	11 02	3 12 02.5			264 54	20 54		834309
54320	SPETSAL, GR.	8078	11 02	3 13 22.5			268 00	15 12		834309
54321	SPETSAL, GR.	8078	11 02	3 14 16.5			259 54	12 00		834309
54322	SPETSAL, GR.	8078	11 02	3 15 07.0			27 06	9 06		834309
54239	MEUDON, FR.	2715	11 02	4 55 04.00			276 52	28 01		637109
54240	MEUDON, FR.	2715	11 02	4 56 03.80			275 06	33 07		637109
54241	MEUDON, FR.	2715	11 02	4 57 08.30			272 32	39 16		637109
54242	MEUDON, FR.	2715	11 02	4 58 03.20			269 25	45 08		637109
54243	MEUDON, FR.	2715	11 02	4 59 03.80			264 18	52 10		637109
54244	MEUDON, FR.	2715	11 02	5 00 11.30			254 43	60 28		637109
54245	MEUDON, FR.	2715	11 02	5 01 07.20			240 32	66 56		637109
54246	MEUDON, FR.	2715	11 02	5 02 07.20			214 31	71 33		637109
54247	MEUDON, FR.	2715	11 02	5 03 02.10			184 03	71 14		637109
54248	MEUDON, FR.	2715	11 02	5 04 08.80			156 35	65 20		637109
54249	MEUDON, FR.	2715	11 02	5 05 22.70			141 05	56 05		637109
54250	MEUDON, FR.	2715	11 02	5 06 02.70			136 08	50 59		637109
54251	MEUDON, FR.	2715	11 02	5 07 10.30			130 39	42 50		637109
54252	MEUDON, FR.	2715	11 02	5 08 00.30			127 57	37 19		637109
54253	MEUDON, FR.	2715	11 02	5 09 09.40			125 06	30 27		637109
54254	MEUDON, FR.	2715	11 02	5 10 15.00			123 16	24 42		637109
54255	MEUDON, FR.	2715	11 02	5 11 06.30			122 11	20 38		637109
34906	NEW ORLEANS, LA.	0036	11 02	6 49 43			0 00	36 00		845302

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35188	DENVER, COLO.	8592	11 02	8 50 31.1			54 15 00	28 26		845303
35189	DENVER, COLO.	8592	11 02	8 53 30.9			60 36	24 06		845303
11047	WOOMERA, AUSTR.	9003	11 02	10 04 08.07	21 32 12	-30 42				434023
35026	TOWNSVILLE, AUSTR.	8578	11 02	10 08 31.4			152 54	79 49		845302
35027	TOWNSVILLE, AUSTR.	8578	11 02	10 08 36.0			152 24	79 38		845302
35028	TOWNSVILLE, AUSTR.	8578	11 02	10 08 33.6			152 38	79 54		845302
35222	WOOMERA, AUSTR.	0603	11 02	10 10 32.1			47 12	21 06		845302
35223	WOOMERA, AUSTR.	0603	11 02	10 11 14.5			47 18	17 36		845302
35224	WOOMERA, AUSTR.	0603	11 02	10 11 58.0			47 18	14 24		845302
34938	CHINA LAKE, CAL.	8588	11 02	10 42 47.8			355 22 12	48 12 36		845303
11046	ORGAN PASS, BN, N.M.	9001	11 02	10 48 41.30	1 21 30	70 46				434013
35190	DENVER, COLO.	8592	11 02	10 54 18.0			47 30	53 15 00		845303
34907	NEW ORLEANS, LA.	0030	11 02	10 55 29			0 00	42 00		845302
11049	WOOMERA, BN, AUSTR.	9003	11 02	12 08 15.41	40 36 54	19 05				434013
35029	SACRAMENTO, CAL.	8517	11 02	12 52 47.9			0 00	63 10		641304
35191	DENVER, COLO.	8592	11 02	12 56 06.3			302 45 00	69 36		845303
11052	MAUI, BN, HAWAII	9012	11 02	14 52 12.79	13 20 33	73 25				434013
54443	TULEAR, MADAG.	6404	11 02	16 00 00.0			92 48	42 48		845309
54444	TULEAR, MADAG.	6404	11 02	16 01 30.0			81 48	46 12		845309
54445	TULEAR, MADAG.	6404	11 02	16 02 00.0			74 42	30 00		845309
54446	TULEAR, MADAG.	6404	11 02	16 03 00.0			69 42	24 18		845309
54447	TULEAR, MADAG.	6404	11 02	16 04 00.0			65 48	19 42		845309
35195	KAGOSHIMA, JAPAN	0218	11 02	16 43 46	10 57	43 06				845002
35198	KAGOSHIMA, JAPAN	0218	11 02	18 44 31	11 36	64 36				845002
35196	YOKKAICHI, JAPAN	0258	11 02	18 45 35	10 55	63				845002
11053	TOKYO, BN, JAPAN	9005	11 02	18 46 19.60	10 40 42	61 36				434013
35197	KANAYA MACHI, JAPAN	0220	11 02	18 46 37	11 33	55 06				845002
35199	YOKKAICHI, JAPAN	0258	11 02	20 43 34	5 21	50				845002
35201	KAGOSHIMA, JAPAN	0218	11 02	20 44 18.5	3 42	66 54				845002
35225	BAGUIO CITY, PH. IS.	0504	11 02	20 44 20			0 20 24	13 49 48		845302
35230	YATSUSHIRO, JAPAN	0272	11 02	20 47 17			0 00	53 06		845302
35226	BAGUIO CITY, PH. IS.	0504	11 02	20 47 21			16 59 24	15 37 48		845302
35227	BAGUIO CITY, PH. IS.	0504	11 02	20 52 16			44 34 48	12 53 00		845302
11051	MAINI, TAL, BN, INDIA	9006	11 02	22 38 04.10	2 11 00	83 07				434013
55849	POTSDAM	2729	11 03	0 32 29.4	7 52 54	24 04				834049
55850	POTSDAM	2729	11 03	0 34 01.9	8 36 00	21 46				834049
55851	POTSDAM	2729	11 03	0 36 34.2	9 28 48	17 12				834049
55852	POTSDAM	2729	11 03	0 38 13.0	9 55 00	14 25				834049
55853	POTSDAM	2729	11 03	2 30 33.7	4 37 00	30 13				834049
35113	BOCHUM, GER.	8599	11 03	2 33 04.8	7 28 30	33 09				845002
35114	BOCHUM, GER.	8599	11 03	2 33 33.7	7 48 30	32 06				845002
55854	POTSDAM	2729	11 03	2 33 35.1	7 00 36	30 49				834049
55855	POTSDAM	2729	11 03	2 35 25.1	8 19 06	26 11				834049
55856	POTSDAM	2729	11 03	2 37 01.8	9 12 00	20 48				834049
55857	POTSDAM	2729	11 03	2 39 12.2	10 04 16	13 36				834049
55858	POTSDAM	2729	11 03	2 42 18.2	10 55 18	4 37				834049
54458	MEUDON, FR.	2715	11 03	4 28 27.60			474 57	52 25		637109
54459	MEUDON, FR.	2715	11 03	4 29 24.50			273 19	58 00		637109
54460	MEUDON, FR.	2715	11 03	4 30 04.50			271 39	42 35		637109
35116	BOCHUM, GER.	8599	11 03	4 30 24.7	5 40 20	24 30				845002
54461	MEUDON, FR.	2715	11 03	4 31 01.90			266 06	49 07		637109
54462	MEUDON, FR.	2729	11 03	4 31 30.0	4 02 12	41 34				634049
54463	MEUDON, FR.	2715	11 03	4 32 05.00			261 46	56 54		637109
54464	MEUDON, FR.	2715	11 03	4 33 07.20			251 01	65 01		637109
11050	SAN FERNANDO, BN, SP.	9004	11 03	4 33 36.30	7 41 18	73 06				434013
54465	MEUDON, FR.	2715	11 03	4 34 08.20			230 44	71 47		637109
54466	MEUDON, FR.	2715	11 03	4 35 13.00			191 54	74 17		637109
35117	BOCHUM, GER.	8599	11 03	4 35 56.0	7 14 10	23 33				845002
54467	MEUDON, FR.	2715	11 03	4 36 17.00			158 06	69 39		637109
54468	MEUDON, FR.	2715	11 03	4 37 11.50			142 54	62 56		637109
54469	POTSDAM, GER.	2729	11 03	4 38 01.4	7 54 09	14 27				834049
54470	MEUDON, FR.	2715	11 03	4 38 13.60			133 15	54 44		637109
54471	MEUDON, FR.	2715	11 03	4 39 11.40			128 05	47 21		637109
35118	BOCHUM, GER.	8599	11 03	4 39 32.6	9 26 40	9 49				845002
54472	MEUDON, FR.	2715	11 03	4 40 11.40			124 37	40 22		637109
54473	MEUDON, FR.	2715	11 03	4 41 03.20			122 34	34 55		637109
54474	MEUDON, FR.	2715	11 03	4 42 08.60			120 38	28 39		637109
54475	MEUDON, FR.	2715	11 03	4 43 12.40			119 14	23 21		637109
54476	MEUDON, FR.	2715	11 03	4 44 03.50			118 22	19 28		637109
54477	MEUDON, FR.	2715	11 03	4 45 01.90			117 34	15 24		637109
56040	POTSDAM, GER.	2729	11 03	4 45 50.3	11 06 00	-12 10				834049
55864	RODEWISCH, GER.	2731	11 03	4 45 58.1	11 16 24	-10 18				834009
54478	MEUDON, FR.	2715	11 03	4 46 05.50			116 54	11 22		637109
11058	JUPITER, BN, FLA.	9010	11 03	8 24 14.99	23 50 36	85 30				434013
11059	JUPITER, BN, FLA.	9010	11 03	8 24 43.19	24 20 30	88 32				434013
11060	JUPITER, BN, FLA.	9010	11 03	8 30 18.63	12 12 24	56 52				434013
35030	TOWNSVILLE, AUSTR.	8578	11 03	9 41 27.9			149 58	69 22		845302
35031	TOWNSVILLE, AUSTR.	8578	11 03	9 41 28.4			149 58	69 47		845302
35192	DENVER, COLO.	8592	11 03	10 22 00.0			328 45 00	55 15 30		845303
35032	KANSAS CITY, MO.	0036	11 03	10 24 18.3			325	51		845303
11061	JUPITER, BN, FLA.	9010	11 03	10 26 09.49	1 27 30	61 40				434013
35034	NEW ORLEANS, LA.	0030	11 03	10 27 54			0 00	41 00		845302
11062	JUPITER, BN, FLA.	9010	11 03	10 29 29.94	2 53 48	78 48				434013
35033	KANSAS CITY, MO.	0036	11 03	10 30 48.6			65 48	48		845303
11063	WOOMERA, BN, AUSTR.	9003	11 03	11 40 52.59	20 25 12	17 43				434013
54487	SPOKANE, WASH.	8142	11 03	12 29 33.7			125 00	53 24		845309
54488	SPOKANE, WASH.	8142	11 03	12 38 48.5			116 57 00	26 30		845309
11071	MAUI, BN, HAWAII	9012	11 03	14 43 10.56	22 55 00	80 40				434013
54448	TULEAR, MADAG.	6404	11 03	17 26 00.0			235 24	6 48		845309
54449	TULEAR, MADAG.	6404	11 03	17 27 00.0			237 42	9 54		845309
11063	OLIFANTSFENT, BN, S. AF.	9002	11 03	17 27 21.50	17 27 54	-44 11				434023
54450	TULEAR, MADAG.	6404	11 03	17 28 00.0			241 12	14 00		845309
54451	TULEAR, MADAG.	6404	11 03	17 29 00.0			245 24	18 48		845309
54452	TULEAR, MADAG.	6404	11 03	17 30 00.0			250 42	27 18		845309

OBS NO	STATION	STA NO	DATE	TIME	R. Az	OECL	AZIMUTH	ALTITUDE	RANGE	INDEX
35231	PRETORIA, S.AFR.	8575	11 03	17 32 43.6			28 12	67 42		845303
54453	TULEAR, MADAG.	6404	11 03	17 33 00.0			280 42	39 12		845309
54454	TULEAR, MADAG.	6404	11 03	17 34 00.0			296 24	42 18		845309
35232	PRETORIA, S.AFR.	8575	11 03	17 34 02.1			34 12	50 30		845303
54455	TULEAR, MADAG.	6404	11 03	17 35 00.0			313 18	42 36		845309
54456	TULEAR, MADAG.	6404	11 03	17 36 00.0			329 36	40 18		845309
54457	TULEAR, MADAG.	6404	11 03	17 37 00.0			431 12	36 12		845309
35402	SAPPORO, JAPAN	0245	11 03	18 19 58	9 35	41				845002
35234	CAPE TOWN, S.AFR.	0402	11 03	19 28 30.2			284 42	15 42		845302
35235	CAPE TOWN, S.AFR.	0402	11 03	19 32 14.8			317 48	18 24		845302
35236	CAPE TOWN, S.AFR.	0402	11 03	19 34 49.3			337 24	14 30		845302
35463	KANAYA MACHI, JAPAN	0220	11 03	20 25 17.6	11 27	32 42				845002
11056	NATNI TAL'BN, INDIA	9006	11 03	22 12 42.94	10 58 24	79 23				434013
54894	STALINABAD, USSR	1047	11 04	0 17 13.4	10 16 00	41 18				845009
11057	NATNI TAL'BN, INDIA	9006	11 04	0 18 13.91	8 57 30	67 04				434013
54895	STALINABAD, USSR	1047	11 04	0 20 20.4	11 47 00	14 54				845009
11064	AREQUIPA, PERU	9007	11 04	1 28 47.50	21 24 42	31 13				434013
54990	SPEISAL, GR.	8078	11 04	2 05 23.02			151 20 24	47 07 12		834309
54991	SPEISAL, GR.	8078	11 04	2 06 23.02			176 47 24	53 35 24		834309
54992	SPEISAL, GR.	8078	11 04	2 09 20.02			206 54 00	52 48 36		834309
54993	SPEISAL, GR.	8078	11 04	2 11 16.02			230 03 00	45 35 24		834309
54994	SPEISAL, GR.	8078	11 04	2 12 44.92			241 45 00	38 27 00		834309
54995	SPEISAL, GR.	8078	11 04	2 13 57.02			249 29 24	32 34 48		834309
54996	SPEISAL, GR.	8078	11 04	2 14 50.02			252 24 00	28 31 12		834309
54997	SPEISAL, GR.	8078	11 04	2 15 50.02			256 00 00	24 10 48		834309
54998	SPEISAL, GR.	8078	11 04	2 16 45.02			258 44 48	20 24 00		834309
54999	SPEISAL, GR.	8078	11 04	2 18 08.02			262 12 36	15 12 00		834309
55000	SPEISAL, GR.	8078	11 04	2 19 00.02			264 00 36	12 12 00		834309
55001	SPEISAL, GR.	8078	11 04	2 20 05.02			265 58 48	8 34 12		834309
54531	EL GULEA, ALG.	6411	11 04	4 05 00.0			332 48	31 00		845309
55859	POTSDAM	2729	11 04	4 05 48.4	4 38 12	23 45				834049
54532	EL GULEA, ALG.	6411	11 04	4 06 00.0			334 54	34 00		845309
54533	EL GULEA, ALG.	6411	11 04	4 07 00.0			346 18	36 36		845309
54534	EL GULEA, ALG.	6411	11 04	4 08 00.0			355 00	38 54		845309
55860	POTSDAM	2729	11 04	4 08 02.0	6 01 00	22 36				834049
54535	EL GULEA, ALG.	6411	11 04	4 09 00.0			5 24	40 30		845309
55002	SPEISAL, GR.	8078	11 04	4 09 18.09			125 08 24	42 31 48		834309
55861	POTSDAM	2729	11 04	4 09 53.4	7 13 48	18 34				834049
54536	EL GULEA, ALG.	6411	11 04	4 10 00.0			16 18	40 48		845309
55003	SPEISAL, GR.	8078	11 04	4 10 11.09			126 48 00	47 41 24		834309
54537	EL GULEA, ALG.	6411	11 04	4 11 00.0			26 18	40 06		845309
55004	SPEISAL, GR.	8078	11 04	4 11 06.09			127 15 36	54 57 00		834309
55862	POTSDAM	2729	11 04	4 11 07.9	8 00 06	14 28				834049
54538	EL GULEA, ALG.	6411	11 04	4 12 00.0			35 54	35 30		845309
55005	SPEISAL, GR.	8078	11 04	4 12 12.09			129 51 00	64 42 36		834309
55863	POTSDAM	2729	11 04	4 12 52.1	8 55 48	8 02				834049
55006	SPEISAL, GR.	8078	11 04	4 13 38.09			131 01 12	78 54 00		834309
54539	EL GULEA, ALG.	6411	11 04	4 14 00.0			52 42	32 36		845309
54540	EL GULEA, ALG.	6411	11 04	4 15 00.0			59 30	28 54		845309
54541	EL GULEA, ALG.	6411	11 04	4 16 00.0			64 54	25 24		845309
55007	SPEISAL, GR.	8078	11 04	4 16 25.09			293 22 48	69 33 00		834309
54542	EL GULEA, ALG.	6411	11 04	4 17 00.0			69 48	21 42		845309
54543	EL GULEA, ALG.	6411	11 04	4 18 00.0			73 42	18 18		845309
55008	SPEISAL, GR.	8078	11 04	4 18 40.09			299 00 00	48 33 36		834309
54544	EL GULEA, ALG.	6411	11 04	4 19 00.0			77 18	14 48		845309
55009	SPEISAL, GR.	8078	11 04	4 19 50.09			300 03 00	39 35 24		834309
54545	EL GULEA, ALG.	6411	11 04	4 20 00.0			80 18	11 42		845309
55010	SPEISAL, GR.	8078	11 04	4 20 42.09			300 39 36	34 48 36		834309
54546	EL GULEA, ALG.	6411	11 04	4 21 00.0			83 06	8 42		845309
55011	SPEISAL, GR.	8078	11 04	4 22 10.09			301 28 12	25 19 12		834309
11066	JUPITER, FLA.	9010	11 04	7 57 35.09	11 00 00	87 45				434013
11067	JUPITER, FLA.	9010	11 04	8 06 07.01	12 08 48	40 42				434013
35237	SYDNEY, AUSTR.	0602	11 04	9 10 45.6	19 14	-11 54				845049
35238	SYDNEY, AUSTR.	0602	11 04	9 13 37.2	21 36	11 18				845049
35239	SYDNEY, AUSTR.	0602	11 04	9 16 37.7	23 27	28 54				845049
11068	JUPITER, FLA.	9010	11 04	9 57 11.50	0 46 00	56 50				434013
35095	W. PALM BEACH, FLA.	0016	11 04	9 58 52			333	22 30		845302
35097	NEW ORLEANS, LA.	0030	11 04	10 00 09.5			0 00	40 00		845302
35098	ST. PETERSBURG, FLA.	0121	11 04	10 02 10	7 55	86 10				845302
35096	W. PALM BEACH, FLA.	0016	11 04	10 03 05			0	34		845302
11069	JUPITER, FLA.	9010	11 04	10 03 48.04	9 22 36	80 10				434013
35099	ST. PETERSBURG, FLA.	0121	11 04	10 04 45	11 13	69 40				845302
11070	JUPITER, FLA.	9010	11 04	10 05 52.16	11 28 24	66 26				434013
35040	ST. PETERSBURG, FLA.	0121	11 04	10 08 20	12 20	42 40				845302
35182	AOELAIDE, AUSTR.	0600	11 04	11 10 49.4			291	17 30		845302
35183	AOELAIDE, AUSTR.	0600	11 04	11 13 18.4			313 45	19 15		845302
35240	WOOMERA, AUSTR.	0603	11 04	11 13 46.1			314 18	26 18		845302
11076	WOOMERA, AUSTR.	9003	11 04	11 14 45.19	20 52 12	23 58				434013
35241	WOOMERA, AUSTR.	0603	11 04	11 15 21.1			330 48	24 18		845302
35242	WOOMERA, AUSTR.	0603	11 04	11 16 36.9			341 48	21 06		845302
54562	TULEAR, MADAG.	6404	11 04	16 59 00.0			234 24	8 30		845309
54563	TULEAR, MADAG.	6404	11 04	17 00 00.0			236 06	12 42		845309
54564	TULEAR, MADAG.	6404	11 04	17 01 00.0			239 30	17 18		845309
54565	TULEAR, MADAG.	6404	11 04	17 02 00.0			244 06	23 06		845309
54566	TULEAR, MADAG.	6404	11 04	17 03 00.0			245 12	29 12		845309
54567	TULEAR, MADAG.	6404	11 04	17 04 00.0			258 18	35 36		845309
54568	TULEAR, MADAG.	6404	11 04	17 05 00.0			270 48	42 30		845309
54569	TULEAR, MADAG.	6404	11 04	17 06 00.0			287 30	47 42		845309
54570	TULEAR, MADAG.	6404	11 04	17 07 00.0			308 30	49 30		845309
54571	TULEAR, MADAG.	6404	11 04	17 08 00.0			327 48	47 18		845309
54572	TULEAR, MADAG.	6404	11 04	17 09 00.0			343 06	42 30		845309
54573	TULEAR, MADAG.	6404	11 04	17 10 00.0			354 12	36 48		845309
54574	TULEAR, MADAG.	6404	11 04	17 11 00.0			1 48	30 36		845309
54575	TULEAR, MADAG.	6404	11 04	17 12 00.0			7 12	25 00		845309

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35404	SAPORO, JAPAN	0249	11 04	17 53 26	10 09	36				845002
35228	BAGUIO CITY, PHILS.	0504	11 04	19 30 14.0			7 32 24	13 29 24		845302
35229	BAGUIO CITY, PHILS.	0504	11 04	19 32 42.5			20 40 48	13 27 48		845302
34991	VLADIVOSTOK, USSR	1313	11 04	19 32 53.9	8 10 00	40 33				845009
35230	BAGUIO CITY, PHILS.	0504	11 04	19 33 11.0			40 13 36	8 48 48		845302
34962	VLADIVOSTOK, USSR	1313	11 04	19 33 40.0	11 43 00	3 30				845009
11378	NAINI TALIBAN, INDIA	9006	11 04	19 34 19.00	10 40 12	04 37				845013
35065	POTSUAM	2729	11 04	19 34 45.0	8 35 48	18 36				845049
35066	POTSUAM	2729	11 04	19 34 48.0	8 35 00	17 12				845049
35067	POTSUAM	2729	11 04	19 35 06.4	8 35 54	15 00				845049
11379	NAINI TALIBAN, INDIA	9006	11 04	19 34 48.70	4 48 12	72 37				845013
11384	NAINI TALIBAN, INDIA	9006	11 04	19 34 49.39	11 43 12	34 32				845013
35042	BRANBLE, VA.	3073	11 05	0 46	10 05	-44 10				845042
11386	ARAGUAINEN, PHILS.	9007	11 05	1 01 21.00	12 44 00	6 47				845013
35048	POTSUAM	2729	11 05	1 32 13.0	7 04 12	30 03				845049
35049	POTSUAM	2729	11 05	1 40 04.6	7 30 48	28 05				845049
35050	POTSUAM	2729	11 05	1 46 24.2	8 48 18	22 38				845049
35477	MELOUN, FR.	2715	11 05	1 49 39.00			85 12	13 11		837109
35478	MELOUN, FR.	2715	11 05	1 49 47.00			85 14	10 24		837109
35479	MELOUN, FR.	2715	11 05	1 50 33.14	10 10 00	22 47				845013
35480	MELOUN, FR.	2715	11 05	1 50 44.70			263 29	20 27		837109
35481	MELOUN, FR.	2715	11 05	1 50 52.00			263 17	60 00		837109
35482	MELOUN, FR.	2715	11 05	1 51 04.00			144 10 36	25 17 40		834309
35483	MELOUN, FR.	2715	11 05	1 51 16.00			243 51	73 40		837109
35484	MELOUN, FR.	2715	11 05	1 51 28.00			244 43	76 39		837109
35485	MELOUN, FR.	2715	11 05	1 51 40.00			143 40 40	31 12 30		834309
35486	MELOUN, FR.	2715	11 05	1 51 52.00			144 38	77 27		837109
35487	MELOUN, FR.	2715	11 05	1 52 04.00			146 34 00	37 40 40		834309
35488	MELOUN, FR.	2715	11 05	1 52 16.00			143 59	71 42		837109
35489	MELOUN, FR.	2715	11 05	1 52 28.00			146 34 00	42 13 12		834309
35490	MELOUN, FR.	2715	11 05	1 52 40.00			143 57	60 00		837109
35491	MELOUN, FR.	2715	11 05	1 52 52.00			151 03 00	31 30 30		834309
35492	MELOUN, FR.	2715	11 05	1 53 04.00			144 00	47 40		837109
35493	MELOUN, FR.	2715	11 05	1 53 16.00			154 59 12	29 34 40		834309
35494	MELOUN, FR.	2715	11 05	1 53 28.00			146 00	41 30		837109
35495	MELOUN, FR.	2715	11 05	1 53 40.00			144 59	30 25		837109
35496	MELOUN, FR.	2715	11 05	1 53 52.00			152 49 00	74 30 00		834309
35497	MELOUN, FR.	2715	11 05	1 54 04.00			143 49	32 32		837109
35498	MELOUN, FR.	2715	11 05	1 54 16.00			142 34	25 31		837109
35499	MELOUN, FR.	2715	11 05	1 54 28.00			142 31	41 39		837109
35500	MELOUN, FR.	2715	11 05	1 54 40.00			149 34 36	74 10 40		834309
35501	MELOUN, FR.	2715	11 05	1 54 52.00			144 26	17 47		837109
35502	MELOUN, FR.	2715	11 05	1 55 04.00			155 20 12	61 00 00		834309
35503	MELOUN, FR.	2715	11 05	1 55 16.00			141 01	14 30		837109
35504	MELOUN, FR.	2715	11 05	1 55 28.00			149 27 36	50 30 40		834309
35505	MELOUN, FR.	2715	11 05	1 55 40.00			140 36	11 31		837109
35506	MELOUN, FR.	2715	11 05	1 55 52.00			143 30 00	42 03 36		834309
35507	MELOUN, FR.	2715	11 05	1 56 04.00			140 40	7 32		837109
35508	MELOUN, FR.	2715	11 05	1 56 16.00			144 30 36	35 40 40		834309
35509	MELOUN, FR.	2715	11 05	1 56 28.00			145 49 24	31 07 12		834309
35510	MELOUN, FR.	2715	11 05	1 56 40.00			146 29 24	45 37 48		834309
35511	MELOUN, FR.	2715	11 05	1 56 52.00			147 10 12	19 33 36		834309
35512	MELOUN, FR.	2715	11 05	1 57 04.00			147 01 12	0 31 12		834309
35513	MELOUN, FR.	2715	11 05	1 57 16.00			147 30 00	5 03 00		834309
35514	MELOUN, FR.	2715	11 05	1 57 28.00	10 10 12	14 34				845013
35515	MELOUN, FR.	2715	11 05	1 57 40.00			0 00	58 40		845042
35516	MELOUN, FR.	2715	11 05	1 57 52.00			143 24	65 43 00		845303
35517	MELOUN, FR.	2715	11 05	1 58 04.00			147 45 00	78 00		845303
35518	MELOUN, FR.	2715	11 05	1 58 16.00			0 00	60 00		845302
35519	MELOUN, FR.	2715	11 05	1 58 28.00	10 11 14	40 13				845013
35520	MELOUN, FR.	2715	11 05	1 58 40.00	10 10 36	0 41				845013
35521	MELOUN, FR.	2715	11 05	1 58 52.00	10 11 00	-0 31				845013
35522	MELOUN, FR.	2715	11 05	1 59 04.00			55 10	14 42		845303
35523	MELOUN, FR.	2715	11 05	1 59 16.00			57 34	7 12		845303
35524	MELOUN, FR.	2715	11 05	1 59 28.00			433 10	11 42		845309
35525	MELOUN, FR.	2715	11 05	1 59 40.00			433 42	11 30		845309
35526	MELOUN, FR.	2715	11 05	1 59 52.00			436 24	17 12		845309
35527	MELOUN, FR.	2715	11 05	2 00 04.00			437 34	14 24		845309
35528	MELOUN, FR.	2715	11 05	2 00 16.00			436 44	19 48		845309
35529	MELOUN, FR.	2715	11 05	2 00 28.00			434 36	40 12		845309
35530	MELOUN, FR.	2715	11 05	2 00 40.00			431 30	50 36		845309
35531	MELOUN, FR.	2715	11 05	2 00 52.00			430 48	55 30		845309
35532	MELOUN, FR.	2715	11 05	2 01 04.00			431 44	51 12		845309
35533	MELOUN, FR.	2715	11 05	2 01 16.00			434 24	43 34		845309
35534	MELOUN, FR.	2715	11 05	2 01 28.00			3 36	35 12		845309
35535	MELOUN, FR.	2715	11 05	2 01 40.00			10 00	30 36		845309
35536	MELOUN, FR.	2715	11 05	2 01 52.00			15 00	25 12		845309
35537	MELOUN, FR.	2715	11 05	2 02 04.00			17 42	20 06		845309
35538	MELOUN, FR.	2715	11 05	2 02 16.00			13 36	47 00		845303
35539	MELOUN, FR.	2715	11 05	2 02 28.00	8 49 42	71 55				845013
35540	MELOUN, FR.	2715	11 05	2 02 40.00	9 14 30	13 26				845002
35541	MELOUN, FR.	2715	11 05	2 02 52.00			27 18	44 33		845303
35542	MELOUN, FR.	2715	11 05	2 03 04.00	10 12	36				845002
35543	MELOUN, FR.	2715	11 05	2 03 16.00			38 30	40 36		845303
35544	MELOUN, FR.	2715	11 05	2 03 28.00	10 55 14	10 38				845013
35545	MELOUN, FR.	2715	11 05	2 03 40.00	11 17 30	69 48				845002
35546	MELOUN, FR.	2715	11 05	2 03 52.00			332 36	35 00		845303
35547	MELOUN, FR.	2715	11 05	2 04 04.00			18 54	67 42		845303
35548	MELOUN, FR.	2715	11 05	2 04 16.00	10 08	54				845002
35549	MELOUN, FR.	2715	11 05	2 04 28.00	8 51 12	54 12				845013
35550	MELOUN, FR.	2715	11 05	2 04 40.00	8 57 30	52 54				845003
35551	MELOUN, FR.	2715	11 05	2 04 52.00			78 12	56 24		845303
35552	MELOUN, FR.	2715	11 05	2 05 04.00	17 51	-11 06				845042
35553	MELOUN, FR.	2715	11 05	21 17 12.00	10 55 18	78 37				845013

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35243	BAGUIO CITY, PH.IS.	0504	11 05	21 23 21				339 04 12	19 43 48		845302
35244	BAGUIO CITY, PH.IS.	0504	11 05	21 30 23.8				17 33 00	31 55 48		845302
35245	BAGUIO CITY, PH.IS.	0504	11 05	21 34 05.5				50 56 24	32 24		845302
11081	MAINI TAL'BN, INDIA	9006	11 05	23 24 35.80	10	39 36	57 53				834013
34401	TULEAR, MADAG.	6404	11 06	0 10 30.0				232 54	21 18		845309
34402	TULEAR, MADAG.	6404	11 06	0 11 00.0				234 18	24 48		845309
34403	TULEAR, MADAG.	6404	11 06	0 12 00.0				238 24	32 18		845309
11082	AREQUIPA'BN, PERU	9007	11 06	0 33 42.78	21	22 16	0 14				434019
35871	POTSOAM	2729	11 06	1 12 32.4	7	29 30	27 49				834049
34496	MEUDON, FR.	2715	11 06	1 13 31.50				86 13	31 37		637109
34497	MEUDON, FR.	2715	11 06	1 14 09.90				85 37	28 19		637109
35872	POTSOAM	2729	11 06	1 14 24.9	8	29 18	22 27				834049
34498	MEUDON, FR.	2715	11 06	1 15 09.40				84 59	23 40		637109
34499	MEUDON, FR.	2715	11 06	1 16 00.90				84 32	19 59		637109
34500	MEUDON, FR.	2715	11 06	1 17 24.30				83 58	14 39		637109
35873	POTSOAM	2729	11 06	1 17 25.0	9	34 30	13 42				834049
34501	MEUDON, FR.	2715	11 06	1 18 00.60				83 48	12 35		637109
34502	MEUDON, FR.	2715	11 06	1 19 23.00				83 28	8 03		637109
35874	POTSOAM	2729	11 06	1 20 18.1	10	15 54	6 24				834049
34503	MEUDON, FR.	2715	11 06	1 20 31.30				83 18	4 41		637109
35029	SPETSAL, GR.	8078	11 06	3 11 00.26				125 31 12	26 54 00		834309
34504	MEUDON, FR.	2715	11 06	3 11 48.60				193 19	80 21		637109
34547	EL GULEA, ALG.	6411	11 06	3 12 00.0				16 00	38 00		845309
35030	SPETSAL, GR.	8078	11 06	3 12 02.26				127 00 00	32 03 36		834309
35031	SPETSAL, GR.	8078	11 06	3 12 46.26				128 18 00	36 06 00		834309
34505	MEUDON, FR.	2715	11 06	3 12 49.30				145 09	75 59		637109
34548	EL GULEA, ALG.	6411	11 06	3 13 00.0				26 00	37 00		845309
35032	SPETSAL, GR.	8078	11 06	3 13 52.26				130 52 48	42 54 00		834309
34506	MEUDON, FR.	2715	11 06	3 13 56.40				125 32	66 32		637109
34549	EL GULEA, ALG.	6411	11 06	3 14 00.0				34 30	35 24		845309
34507	MEUDON, FR.	2715	11 06	3 14 47.60				119 48	58 59		637109
35033	SPETSAL, GR.	8078	11 06	3 14 57.26				134 32 24	50 20 24		834309
34550	EL GULEA, ALG.	6411	11 06	3 15 00.0				42 42	33 12		845309
35875	POTSOAM	2729	11 06	3 15 10.4	8	49 00	9 51				834049
34508	MEUDON, FR.	2715	11 06	3 15 31.50				116 01	53 08		637109
35034	SPETSAL, GR.	8078	11 06	3 15 51.26				139 09 00	57 07 12		834309
34551	EL GULEA, ALG.	6411	11 06	3 16 00.0				50 00	30 18		845309
34509	MEUDON, FR.	2715	11 06	3 16 24.60				113 42	46 30		637109
35035	SPETSAL, GR.	8078	11 06	3 16 42.26				146 18 36	64 06 00		834309
34552	EL GULEA, ALG.	6411	11 06	3 17 00.0				56 06	27 12		845309
34510	MEUDON, FR.	2715	11 06	3 17 15.60				111 57	40 38		637109
35036	SPETSAL, GR.	8078	11 06	3 17 42.76				162 31 12	72 01 48		834309
34553	EL GULEA, ALG.	6411	11 06	3 18 00.0				61 42	24 00		845309
34511	MEUDON, FR.	2715	11 06	3 18 20.90				110 38	33 58		637109
34554	EL GULEA, ALG.	6411	11 06	3 18 37.58	10	04 44	5 19				637045
34554	EL GULEA, ALG.	6411	11 06	3 19 00.0				66 18	20 42		845309
34556	MEUDON	2715	11 06	3 19 03.10	10	01 13	3 58				637045
35037	SPETSAL, GR.	8078	11 06	3 19 11.76				221 07 12	77 01 48		834309
34512	MEUDON, FR.	2715	11 06	3 19 31.90				109 32	27 34		637109
34555	EL GULEA, ALG.	6411	11 06	3 20 00.0				70 24	17 24		845309
34557	MEUDON	2715	11 06	3 20 01.68	10	02 03	5 56				637049
34513	MEUDON, FR.	2715	11 06	3 20 10.10				109 01	24 27		637109
35038	SPETSAL, GR.	8078	11 06	3 20 13.26				256 18 00	71 30 00		834309
34558	EL GULEA, ALG.	6411	11 06	3 21 00.0				74 00	14 12		845309
34514	MEUDON, FR.	2715	11 06	3 21 20.60				108 33	19 18		637109
35039	SPETSAL, GR.	8078	11 06	3 21 25.36				273 28 48	42 32 44		834309
34557	EL GULEA, ALG.	6411	11 06	3 22 00.0				77 00	12 24		845309
34515	MEUDON, FR.	2715	11 06	3 22 05.80				108 13	16 10		637109
35040	SPETSAL, GR.	8078	11 06	3 23 02.26				283 33 00	48 30 36		834309
35041	SPETSAL, GR.	8078	11 06	3 24 27.26				287 48 36	38 26 24		834309
35042	SPETSAL, GR.	8078	11 06	3 25 36.26				290 05 24	31 28 48		834309
35043	SPETSAL, GR.	8078	11 06	3 26 22.26				291 13 48	27 16 12		834309
35044	SPETSAL, GR.	8078	11 06	3 27 16.24				292 22 48	22 48 36		834309
35045	SPETSAL, GR.	8078	11 06	3 28 12.26				293 20 24	18 34 48		834309
35046	SPETSAL, GR.	8078	11 06	3 29 14.26				294 16 12	14 19 12		834309
35047	SPETSAL, GR.	8078	11 06	3 30 22.26				295 06 00	10 06 00		834309
35876	POTSOAM	2729	11 06	5 11 45.1	4	15 54	14 37				834049
35877	POTSOAM	2729	11 06	5 13 17.1	4	53 15	13 15				834049
11087	JUPITER'BN, FLA.	9010	11 06	9 03 25.0	0	17 42	66 49				434013
11088	JUPITER'BN, FLA.	9010	11 06	9 08 49.52	10	33 30	77 04				434013
11089	JUPITER'BN, FLA.	9010	11 06	9 16 34.10	12	19 30	27 55				434013
35249	AOELATOE, AUSTR.	0600	11 06	10 17 43.2				309	24 45		845302
11077	WOOMERA'BN, AUSTR.	9003	11 06	10 18 48.99	20	02 00	13 02				434013
35193	DENVER, COLO.	8592	11 06	11 05 24.0				336 45 00	68 15 00		845303
35194	DENVER, COLO.	8592	11 06	11 07 35.4				45 54	73 24		845303
35184	ST. LOUIS, MO.	0140	11 06	11 07 47.66	5	11 48	47 12				845032
35418	MITAKA, JAPAN	0229	11 06	14 57 40.9				57 24	8 54		845303
35419	MITAKA, JAPAN	0229	11 06	14 58 59.5				58 48	5 12		845303
11090	MAUI'BN, HAWAII	9012	11 06	15 10 02.14	12	11 00	49 16				434013
35420	MITAKA, JAPAN	0229	11 06	16 55 25.1				34 54	41 06		845303
11074	TOKYO'BN, JAPAN	9005	11 06	16 55 47.80	10	53 30	60 14				434013
35421	MITAKA, JAPAN	0229	11 06	16 56 40.6				44 42	36 18		845303
35422	MITAKA, JAPAN	0229	11 06	16 58 11.8				53 42	30 12		845303
11072	OLIFANTSMTN'BN,S.AF	9002	11 06	18 12 37.70	19	50 06	18 29				434013
35423	MITAKA, JAPAN	0229	11 06	18 53 13.3				315 00	33 30		845303
35424	KANAYA MACHI, JAPAN	0220	11 06	18 54 11	2	25	67				845002
34905	VLAODISVOSTOK, USSR	1013	11 06	18 54 41.4	5	14 36	52 48				845009
34926	KONKO, JAPAN	0224	11 06	18 56 33.6	6	57	71 42				845002
34906	VLAODISVOSTOK, USSR	1013	11 06	18 56 40.4	7	24 36	48 12				845009
11101	TOKYO'BN, JAPAN	9005	11 06	18 57 27.10	5	51 12	65 38				434013
35424	MITAKA, JAPAN	0229	11 06	18 58 21.75				18 00	62 12		845302
35427	KASHIWABARA, JAPAN	0222	11 06	18 58 39	9	05	43				845002
35425	MITAKA, JAPAN	0229	11 06	18 59 56.66				34 18	64 06		845303
35429	MITAKA, JAPAN	0229	11 06	19 03 42.2				94 18	33 00		845303

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35430	YOKKAICHI, JAPAN	0258	11 06	19 05 50	11 42	15				845002
35246	BAGUIO CITY, PH. IS.	0504	11 06	20 53 02			333 11 24	7 19 48		845302
35247	BAGUIO CITY, PH. IS.	0504	11 06	20 59 40.6			359 44 24	24 06 00		845302
35431	MIYAZAKI, JAPAN	0230	11 06	21 00 19.4	5 58 00	47 42				845002
35248	BAGUIO CITY, PH. IS.	0504	11 06	21 04 44.2			37 26 24	30 56 00		845302
35250	BAGUIO CITY, PH. IS.	0504	11 06	21 07 18.1			58 10 12	27 50 00		845302
35251	BAGUIO CITY, PH. IS.	0504	11 06	21 10 25			77 58 12	19 51 14		845302
35252	BAGUIO CITY, PH. IS.	0504	11 06	21 13 44.1			92 19 48	9 46 12		845302
11092	MAINI TAL'BN, INDIA	9006	11 06	22 58 46.44	11 21 18	43 15				434013
11083	AREQUIPA'BN, PERU	9007	11 07	0 06 33.62	21 52 00	- 0 15				434013
11091	CURACAO'BN, N.W.I.	9009	11 07	0 12 22.08	0 52 00	-35 55				434043
54516	MEUDON, FR.	2715	11 07	0 47 02.80			83 51	24 19		637109
54558	EL GULEA, ALG.	6411	11 07	0 48 00.0			56 54	11 12		845309
54559	EL GULEA, ALG.	6411	11 07	0 49 00.0			59 12	6 30		845309
54560	EL GULEA, ALG.	6411	11 07	0 50 00.0			51 12	6 12		845309
54561	EL GULEA, ALG.	6411	11 07	0 51 00.0			53 24	3 54		845309
54517	MEUDON, FR.	2715	11 07	0 51 59.60			81 51	6 21		637109
54518	MEUDON, FR.	2715	11 07	0 52 23.20			81 40	5 11		637109
54519	MEUDON, FR.	2715	11 07	0 53 07.30			81 28	3 08		637109
35185	SAN ANTONIO, TEX.	0096	11 07	2 10 42.0	0 41 00	-49 45				845043
54520	MEUDON, FR.	2715	11 07	2 44 24.90			155 26	79 49		637109
54521	MEUDON, FR.	2715	11 07	2 45 02.90			133 36	70 04		637109
55048	SPETSAL, GR.	8078	11 07	2 46 00.70			133 40 48	43 50 56		834309
54522	MEUDON, FR.	2715	11 07	2 46 11.10			118 40	65 00		637109
54523	MEUDON, FR.	2715	11 07	2 47 11.20			113 25	56 24		637109
55049	SPETSAL, GR.	8078	11 07	2 47 27.70			140 49 48	53 51 12		834309
54524	MEUDON, FR.	2715	11 07	2 48 14.30			110 26	48 13		637109
54525	MEUDON, FR.	2715	11 07	2 49 21.20			108 26	40 30		637109
54526	MEUDON, FR.	2715	11 07	2 50 02.50			107 40	36 13		637109
55050	SPETSAL, GR.	8078	11 07	2 50 37.70			196 54 36	72 04 48		834309
54527	MEUDON, FR.	2715	11 07	2 51 08.80			106 44	50 01		637109
54528	MEUDON, FR.	2715	11 07	2 52 01.10			106 11	45 38		637109
55051	SPETSAL, GR.	8078	11 07	2 52 43.70			256 06 36	60 07 12		834309
54529	MEUDON, FR.	2715	11 07	2 53 59.50			105 24	16 56		637109
55052	SPETSAL, GR.	8078	11 07	2 54 13.70			271 54 00	54 43 12		834309
54530	MEUDON, FR.	2715	11 07	2 54 19.50			105 16	15 49		637109
55053	SPETSAL, GR.	8078	11 07	2 55 44.70			278 08 24	45 15 48		834309
55054	SPETSAL, GR.	8078	11 07	2 56 19.70			281 38 24	39 01 48		834309
55055	SPETSAL, GR.	8078	11 07	2 58 05.70			285 52 12	26 51 56		834309
55056	SPETSAL, GR.	8078	11 07	2 59 03.70			287 30 36	24 01 12		834309
55057	SPETSAL, GR.	8078	11 07	3 00 13.70			289 06 00	18 49 12		834309
55058	SPETSAL, GR.	8078	11 07	3 01 20.70			290 21 00	14 19 12		834309
55059	SPETSAL, GR.	8078	11 07	3 02 33.70			291 30 00	9 52 12		834309
54590	MEUDON, FR.	2715	11 07	4 42 27.70			273 04	50 54		637109
55878	POTSAM	2729	11 07	4 42 51.6	5 51 54	15 57				834049
54591	MEUDON, FR.	2715	11 07	4 43 09.70			269 40	54 40		637109
54592	MEUDON, FR.	2715	11 07	4 44 12.0			264 06	59 43		637109
55879	POTSAM	2729	11 07	4 44 49.4	5 17 18	15 13				834049
54593	MEUDON, FR.	2715	11 07	4 45 09.50			257 05	44 32		637109
54594	MEUDON, FR.	2715	11 07	4 46 07.40			247 57	49 00		637109
54595	MEUDON, FR.	2715	11 07	4 47 07.70			235 35	52 47		637109
54596	MEUDON, FR.	2715	11 07	4 48 05.50			221 15	54 53		637109
55880	POTSAM	2729	11 07	4 49 06.9	6 15 36	7 32				834049
55881	POTSAM	2729	11 07	4 51 33.0	7 14 24	- 0 13				834049
54597	MEUDON, FR.	2715	11 07	4 52 08.50			167 43	43 28		637109
54598	MEUDON, FR.	2715	11 07	4 53 01.60			161 14	38 53		637109
54599	MEUDON, FR.	2715	11 07	4 54 09.90			155 06	33 08		637109
54600	MEUDON, FR.	2715	11 07	4 55 10.30			150 55	28 13		637109
11094	JUPITER'BN, FLA.	9010	11 07	6 37 33.69	0 48 42	79 35				434013
11095	JUPITER'BN, FLA.	9010	11 07	8 45 29.22	11 43 06	47 12				434013
11096	JUPITER'BN, FLA.	9010	11 07	8 50 59.55	12 18 24	18 47				434013
35255	SYDNEY, AUSTR.	0802	11 07	9 51 50.3	18 59	15 12				845049
35256	SYDNEY, AUSTR.	0802	11 07	9 55 26.5	20 33 30	35				845049
11097	JUPITER'BN, FLA.	9010	11 07	10 40 59.87	3 04 54	56 49				434013
35257	PUEBLA, MEX.	0900	11 07	10 46 02.0	12 15 18	53 25				845043
11098	JUPITER'BN, FLA.	9010	11 07	10 50 39.57	10 54 24	24 38				434013
11099	JUPITER'BN, FLA.	9010	11 07	10 53 36.19	11 51 00	3 40				434013
35253	BAGUIO CITY, PH. IS.	0504	11 07	11 57 31			189 00	20 59 00		845302
35258	HSINGCHU CITY, TAIWAN	0505	11 07	11 59 14.1	45 07 18	-50 48				845042
35254	BAGUIO CITY, PH. IS.	0504	11 07	11 59 28			177 04 48	31 19 48		845302
35260	SACRAMENTO, CAL.	8517	11 07	12 40 00.6			0 00	83 01		641304
35195	DENVER, COLO.	8592	11 07	12 41 57.0			271 30	49 36		845303
35196	DENVER, COLO.	8592	11 07	12 44 58.2			205 18	61 00		845303
11811	MAUI-BN, HAWAII	9012	11 07	14 41 00.42	11 51 12	57 04				434013
35432	MITAKA, JAPAN	0229	11 07	16 29 59.0			51 42	30 06		845303
35435	HIGASHIMATSUYAMA, JAP	0210	11 07	16 31 06.7	10 53	40 24				845002
35433	MITAKA, JAPAN	0229	11 07	16 31 10.5			57 06	25 24		845303
35434	MITAKA, JAPAN	0229	11 07	16 32 27.4			61 42	20 42		845303
35436	MITAKA, JAPAN	0229	11 07	18 28 16.7			335 12	50 24		845303
35437	MITAKA, JAPAN	0229	11 07	18 30 26.2			4 54	60 00		845303
35439	KANAYA MACHI, JAPAN	0220	11 07	18 30 44.8	9 18	63 30				845002
11102	TOKYO'BN, JAPAN	9005	11 07	18 38 57.00	10 04 47	42 38				434013
35438	MITAKA, JAPAN	0229	11 07	18 34 26.5			70 24	49 48		845303
35440	MITAKA, JAPAN	0229	11 07	20 31 57.4			288 12	40 48		845303
35445	YATSUSHIRO, JAPAN	0272	11 07	20 35 05			0 00	81 12		845302
35443	YOKKAICHI, JAPAN	0258	11 07	20 36 10	8 01	25				845002
35441	MITAKA, JAPAN	0229	11 07	20 36 45.3			226 24	66 12		845303
35261	BAGUIO CITY, PH. IS.	0504	11 07	20 39 43.2			59 18	23 33		845302
35446	MIYAZAKI, JAPAN	0230	11 07	20 40 19.2	10 57 54	3 54				845002
35442	MITAKA, JAPAN	0229	11 07	20 41 35.9			158 16	40 14		845303
35262	BAGUIO CITY, PH. IS.	0504	11 07	20 42 24.5			75 00	17 57 48		845302
35444	KANAYA MACHI, JAPAN	0220	11 07	20 43 05	17 15	-13				845002
35263	BAGUIO CITY, PH. IS.	0504	11 07	20 47 45.5			95 19 48	3 26 24		845302
56148	USIMINAS	8145	11 07	21 40 27.0	22 39 00	10 34				845009

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56149	USIMINAS	8145	11 07	21 40 34.1	22 44 12	11 55				845009
56150	USIMINAS	8145	11 07	21 40 55.2	22 58 00	15 40				845009
56151	USIMINAS	8145	11 07	21 41 49.9	23 25 42	27 54				845009
11093	NAINI TAL'BN, INDIA	9006	11 07	22 47 48.37	20 30 36	65 09				434013
11103	AREQUIPA'BN, PERU	9007	11 07	23 28 07.29	21 26 42	-16 37				434013
54907	EREVAN, USSR	1018	11 08	0 20 34.3	5 05 00	61 30				845009
54908	EREVAN, USSR	1018	11 08	0 24 05.7	8 58 48	46 24				845009
54899	KRASNOGAR, USSR	1027	11 08	0 26 34.1	10 04	17 30				845009
54900	KRASNOGAR, USSR	1027	11 08	0 29 36.8	10 43	5 42				845009
35376	BOCHUM, GER.	8599	11 08	2 16 34.6	7 01 24	29 06				845042
35377	BOCHUM, GER.	8599	11 08	2 20 12	7 57 57	21 54				845042
35378	BOCHUM, GER.	8599	11 08	2 25 23.7	9 51 20	1 20				845042
54896	EREVAN, USSR	1018	11 08	2 28 18.8	7 53 54	15 42				845009
35264	PUEBLA, MEX.	0900	11 08	3 42 18.8	21 30 36	-29 21				845043
35379	BOCHUM, GER.	8599	11 08	4 17 51.9	4 27 15	19 27				845042
35380	BOCHUM, GER.	8599	11 08	4 23 22.8	7 36 51	4 06				845042
54604	EL GULEA, ALG.	6411	11 08	4 26 00.0			71 30	53 06		845309
55060	SPETSAL, GR.	8078	11 08	4 26 40.43			65 49 12	54 59 12		834309
54605	EL GULEA, ALG.	6411	11 08	4 27 00.0			81 30	47 36		845309
55061	SPETSAL, GR.	8078	11 08	4 27 43.43			48 16 12	56 46 48		834309
54606	EL GULEA, ALG.	6411	11 08	4 28 00.0			88 12	41 42		845309
54607	EL GULEA, ALG.	6411	11 08	4 29 00.0			93 30	35 34		845309
55062	SPETSAL, GR.	8078	11 08	4 29 39.43			14 13 12	52 05 00		834309
54608	EL GULEA, ALG.	6411	11 08	4 30 00.0			97 36	30 30		845309
54609	EL GULEA, ALG.	6411	11 08	4 31 00.0			100 42	25 24		845309
55063	SPETSAL, GR.	8078	11 08	4 31 15.43			358 36 36	44 45 00		834309
54610	EL GULEA, ALG.	6411	11 08	4 32 00.0			103 30	20 30		845309
54611	EL GULEA, ALG.	6411	11 08	4 33 00.0			105 18	17 00		845309
55064	SPETSAL, GR.	8078	11 08	4 33 04.43			346 31 12	34 41 24		834309
54612	EL GULEA, ALG.	6411	11 08	4 34 00.0			107 06	13 06		845309
54613	EL GULEA, ALG.	6411	11 08	4 35 00.0			108 30	9 30		845309
54614	EL GULEA, ALG.	6411	11 08	4 36 00.0			110 00	6 30		845309
54615	EL GULEA, ALG.	6411	11 08	4 37 00.0			111 06	3 06		845309
11112	MAUI'BN, HAWAII	9012	11 08	5 37 55.64	0 19 54	-49 36				434013
11104	JUPITER'BN, FLA.	9016	11 08	10 11 45.36	2 03 42	55 35				434013
35265	CINCINNATI, OHIO	8555	11 08	10 16 16			204 18	66 36		845042
11105	JUPITER'BN, FLA.	9010	11 08	10 16 23.45	5 49 42	65 32				434013
35266	N.CANTON, OHIO	8572	11 08	10 16 56.1	7 33	26 48				845042
35267	N.CANTON, OHIO	8559	11 08	10 17 27.5	7 51 12	23 38				845042
11106	JUPITER'BN, FLA.	9010	11 08	10 19 59.40	12 36 18	-12 58				434013
35259	HSINGCHU CITY, TAIWAN	0505	11 08	11 34 02.0	0 26 30	-40 36				845042
35268	HSINGCHU CITY, TAIWAN	0502	11 08	11 34 13.3	0 15 30	-38 30				845042
35269	SACRAMENTO, CAL.	8517	11 08	12 11 38.4			0 00	78 19		641304
54891	SPOKANE, WASH.	8142	11 08	12 12 54.4			180 00	60 10 12		845309
54893	SPOKANE, WASH.	8142	11 08	12 18 57.4			141 00	25 42		845309
54892	SPOKANE, WASH.	8142	11 08	12 22 27.2			135 00	11 18		845309
11113	MAUI'BN, HAWAII	9012	11 08	14 13 08.72	11 45 42	55 49				434013
35270	SACRAMENTO, CAL.	8517	11 08	14 21 36.5			180 00	32 33		641304
11107	TOKYO'BN, JAPAN	9005	11 08	18 04 41.90	9 23 48	52 31				434013
35447	SAPPORO, JAPAN	0245	11 08	18 09 30	10 22	9				845002
11108	TOKYO'BN, JAPAN	9005	11 08	20 08 01.10	7 12 18	26 25				434013
35448	YOKKAICHI, JAPAN	0258	11 08	20 12 22	10 07	1				845002
11109	NAINI TAL'BN, INDIA	9006	11 08	21 56 17.79	3 40 00	80 29				434013
54903	EREVAN, USSR	1018	11 08	23 56 40.7	9 08 48	43 00				845009
54904	EREVAN, USSR	1018	11 08	23 58 19.6	9 51 00	32 54				845009
35381	BOCHUM, GER.	8599	11 09	1 51 35	7 40	25				845042
54626	BESANCON, FR.	2727	11 09	1 52 30.83			100 22	52 17		834309
54627	BESANCON, FR.	2727	11 09	1 53 02.03			100 10	48 14		834309
54628	BESANCON, FR.	2727	11 09	1 54 27.33			100 05	36 41		834309
54629	BESANCON, FR.	2727	11 09	1 55 24.10			100 01	33 09		834309
54630	BESANCON, FR.	2727	11 09	1 56 13.22			100 06	28 47		834309
35382	BOCHUM, GER.	8599	11 09	1 56 36.6	9 22 36	8 45				845042
54897	EREVAN, USSR	1018	11 09	1 56 42.4	5 21 36	34 00				845009
54898	EREVAN, USSR	1018	11 09	1 57 37.0	5 57 18	31 54				845009
54631	BESANCON, FR.	2727	11 09	1 57 38.32			100 10	22 09		834309
35383	BOCHUM, GER.	8599	11 09	1 58 02.1	9 51 30	1 27				845042
54632	BESANCON, FR.	2727	11 09	1 58 04.78			100 16	20 17		834309
54633	BESANCON, FR.	2727	11 09	1 59 18.92			100 22	15 25		834309
35384	BOCHUM, GER.	8599	11 09	3 49 25.2	4 07	20 36				845042
35385	BOCHUM, GER.	8599	11 09	3 51 10.5	5 12 36	19 27				845042
11110	SAN FERNANDO'BN, SP.	9004	11 09	3 52 25.30	7 52 48	59 02				434013
55282	SPETSAL, GR.	8078	11 09	3 54 18.92			106 46 12	36 50 24		834309
35386	BOCHUM, GER.	8599	11 09	3 55 41.5	7 36 26	4 45				845042
55289	SPETSAL, GR.	8078	11 09	4 00 24.42			30 36 00	61 49 12		834309
55290	SPETSAL, GR.	8078	11 09	4 11 53.92			324 59 24	6 31 12		834309
11124	MAUI'BN, HAWAII	9012	11 09	5 14 51.64	2 00 48	-19 47				434013
11111	SAN FERNANDO'BN, SP.	9004	11 09	5 55 08.60	5 48 06	28 29				434013
11157	JUPITER'BN, FLA.	9010	11 09	7 45 31.06	10 58 30	63 05				434013
11158	JUPITER'BN, FLA.	9010	11 09	7 49 45.88	10 18 30	44 35				434013
11114	ORGAN PASS'BN, N.M.	9001	11 09	9 42 46.15	8 48 30	72 58				434013
35271	PUEBLA, MEX.	0900	11 09	9 43 57.7	11 30 00	88 08				845043
35272	PUEBLA, MEX.	0900	11 09	9 49 15.5	11 52 54	56 48				845043
35273	PUEBLA, MEX.	0900	11 09	9 51 49.3	12 04 48	42 23				845043
11159	JUPITER'BN, FLA.	9010	11 09	9 53 31.59	10 25 36	38 28				434013
35274	HSINGCHU CITY, TAIWAN	0505	11 09	11 05 41.1	0 41 42	-38 42				845042
35275	SACRAMENTO, CAL.	8517	11 09	11 43 10.7			0 00	74 16		641304
11115	ORGAN PASS'BN, N.M.	9001	11 09	11 48 54.22	8 10 18	42 04				434013
35276	SACRAMENTO, CAL.	8517	11 09	13 52 40.8			180 00	39 46		641304
11125	MAUI'BN, HAWAII	9012	11 09	15 49 16.55	9 20 48	43 52				434013
54690	TULEAR, MADAG.	6404	11 09	16 48 00.0			264 00	10 18		845309
54691	TULEAR, MADAG.	6404	11 09	16 49 00.0			269 12	12 06		845309
54692	TULEAR, MADAG.	6404	11 09	16 50 00.0			276 36	14 30		845309
54693	TULEAR, MADAG.	6404	11 09	16 51 00.0			284 42	16 18		845309

085 NO	STATION	STA NO	DATE	TIME	R. A.	DECL.	AZIMUTH	ALTITUDE	RANGE	INDEX
54694	TULEAR, MADAG.	6404	11 09	16 52 00.0			293 18	17 30		845309
54695	TULEAR, MADAG.	6404	11 09	16 53 00.0			302 18	17 54		845309
54696	TULEAR, MADAG.	6404	11 09	16 54 00.0			312 24	17 42		845309
54697	TULEAR, MADAG.	6404	11 09	16 55 30.0			323 42	15 48		845309
54698	TULEAR, MADAG.	6404	11 09	16 56 00.0			327 42	15 12		845309
54699	TULEAR, MADAG.	6404	11 09	16 57 00.0			334 12	13 18		845309
54700	TULEAR, MADAG.	6404	11 09	16 58 30.0			343 00	10 18		845309
54701	TULEAR, MADAG.	6404	11 09	16 59 00.0			345 30	9 06		845309
54702	TULEAR, MADAG.	6404	11 09	17 00 00.0			350 12	6 48		845309
35449	KANAYA MACHI, JAPAN	9020	11 09	19 43 29	10 03	10				845002
11117	NAINI TAL'BN, INDIA	9006	11 09	21 33 15.86	11 22 36	43 16				434013
35514	BAGUIO CITY, PH. IS.	9504	11 09	21 41 24.6			336 37 12	43 45 48		845302
35515	BAGUIO CITY, PH. IS.	9504	11 09	21 44 15.6			1 07 12	63 37 48		845302
11122	CURACAO'BN, N.W.I.	9009	11 09	22 50 49.66	1 35 48	-24 40				434023
11118	NAINI TAL'BN, INDIA	9006	11 09	23 39 10.18	9 32 00	22 42				434013
35277	PUEBLA, MEX.	0900	11 10	0 47 41.2	1 04 00	-42 09				845043
11152	JUPITER'BN, FLA.	9010	11 10	0 49 44.84	22 48 54	-48 38				434023
11153	JUPITER'BN, FLA.	9010	11 10	0 51 48.46	23 50 00	-38 51				434023
11154	JUPITER'BN, FLA.	9010	11 10	0 52 31.49	0 10 54	-34 37				434023
54634	MEUDON, FR.	2715	11 10	1 25 50.40			98 19	33 43		637109
54635	MEUDON, FR.	2715	11 10	1 26 17.50			98 07	31 18		637109
54909	KRASNOGAR, USSR	1027	11 10	1 26 32.5	5 07	32 48				845009
54636	MEUDON, FR.	2715	11 10	1 27 07.40			97 45	27 00		637109
54911	EREVAN, USSR	1018	11 10	1 28 15.6	4 55 48	38 00				845009
54637	MEUDON, FR.	2715	11 10	1 28 16.90			97 22	21 49		637109
54638	MEUDON, FR.	2715	11 10	1 29 13.10			97 14	17 58		637109
54910	KRASNOGAR, USSR	1027	11 10	1 29 35.6	7 02	22 48				845009
54913	TCHERNOVITSY, USSR	1062	11 10	1 30 47.0	7 19 00	22 30				845009
54912	EREVAN, USSR	1018	11 10	1 31 15.9	7 10 18	27 18				845009
54914	TCHERNOVITSY, USSR	1062	11 10	1 31 43.4	8 29 12	8 48				845009
11121	SHIRAZ'BN, IRAN	9008	11 10	1 33 42.53	6 54 36	43 33				434013
35278	PUEBLA, MEX.	0900	11 10	1 49 17.2	11 45 42	-26 00				845043
35387	BOCHUM, GER.	8599	11 10	3 23 04.4	4 44	20				637109
54639	MEUDON, FR.	2715	11 10	3 23 24.30			224 24	63 47		637109
54640	MEUDON, FR.	2715	11 10	3 24 01.60			210 34	64 57		637109
54641	MEUDON, FR.	2715	11 10	3 25 06.80			186 06	65 28		637109
55291	SPETSAL, GR.	8078	11 10	3 25 43.90			111 07 48	36 37 14		634309
54616	EL GULEA, ALG.	6411	11 10	3 26 00.3			347 00	46 00		637109
54642	MEUDON, FR.	2715	11 10	3 26 04.70			109 13	29 16		637109
35388	BOCHUM, GER.	8599	11 10	3 25 13.7	6 43 58	12 32				637109
54643	MEUDON, FR.	2715	11 10	3 27 04.50			157 09	53 28		637109
35389	BOCHUM, GER.	8599	11 10	3 27 58.1	7 38 30	5 56				637109
54617	EL GULEA, ALG.	6411	11 10	3 28 00.0			11 00	52 48		637109
54644	MEUDON, FR.	2715	11 10	3 28 16.60			147 43	45 58		637109
54645	MEUDON, FR.	2715	11 10	3 29 01.20			143 42	41 27		637109
54618	EL GULEA, ALG.	6411	11 10	3 30 00.0			143 54	52 32		637109
54646	MEUDON, FR.	2715	11 10	3 30 01.60			139 34	35 42		637109
54647	MEUDON, FR.	2715	11 10	3 31 14.60			135 38	29 16		637109
54619	EL GULEA, ALG.	6411	11 10	3 32 00.0			65 00	45 30		637109
54648	MEUDON, FR.	2715	11 10	3 32 13.30			153 45	24 44		637109
55292	SPETSAL, GR.	8078	11 10	3 32 42.90			12 22 12	65 19 40		634309
54649	MEUDON, FR.	2715	11 10	3 33 08.80			1 2 11	40 42		637109
54620	EL GULEA, ALG.	6411	11 10	3 34 30.0			60 00	36 06		637109
54650	MEUDON, FR.	2715	11 10	3 34 07.00			130 46	16 51		637109
54651	MEUDON, FR.	2715	11 10	3 35 24.60			129 19	12 16		637109
54621	EL GULEA, ALG.	6411	11 10	3 36 00.0			89 12	27 00		637109
54622	EL GULEA, ALG.	6411	11 10	3 38 00.0			75 24	18 42		637109
54623	EL GULEA, ALG.	6411	11 10	3 40 00.0			100 00	11 30		637109
54624	EL GULEA, ALG.	6411	11 10	3 41 00.0			101 54	8 00		637109
54625	EL GULEA, ALG.	6411	11 10	3 42 00.0			103 06	5 06		637109
55293	SPETSAL, GR.	8078	11 10	3 43 04.90			111 34 40	7 49 24		634309
35390	BOCHUM, GER.	8599	11 10	5 24 15.1	4 49 50	3 57				637109
35391	BOCHUM, GER.	8599	11 10	5 25 36.0	5 44 30	1 09				637109
11116	SAN FERNANDO'BN, SP.	9004	11 10	5 27 09.60	5 44 42	31 47				434013
35392	BOCHUM, GER.	8599	11 10	5 30 16.4	7 06 06	7 45				637109
11155	JUPITER'BN, FLA.	9010	11 10	9 17 42.67	1 18 18	68 01				434013
11119	ORGAN PASS'BN, N.W.I.	9001	11 10	9 18 36.10	10 27 30	45 04				434013
11156	JUPITER'BN, FLA.	9010	11 10	9 19 23.90	4 47 54	71 51				434013
11123	CURACAO'BN, N.W.I.	9009	11 10	9 28 36.02	10 38 54	57 31				434013
35279	HSINGCHU CITY, TAIWAN	9509	11 10	10 38 13.5	0 31	-42 42				637109
35539	MIYAZAKI, JAPAN	0233	11 10	10 42 20.5	0 33 30	-32 42				637109
35280	HSINGCHU CITY, TAIWAN	9509	11 10	10 42 24.1	2 31	-16				637109
35283	SACRAMENTO, CAL.	8517	11 10	11 14 37.4			0 00	70 43		637109
35285	CHINA LAKE, CAL.	8518	11 10	11 16 57.2			24 25 12	67 36 00		637109
35286	DENVER, COLO.	8592	11 10	11 17 39.6			275 15 00	67 18		637109
35287	DENVER, COLO.	8592	11 10	11 19 43.8			210 15 00	78 12		637109
11125	ORGAN PASS'BN, N.W.I.	9001	11 10	11 21 28.90	9 08 54	34 31				434013
35281	HSINGCHU CITY, TAIWAN	9509	11 10	12 38 35.1	10 49	-27 00				637109
35282	HSINGCHU CITY, TAIWAN	9509	11 10	12 40 27.2	21 46	-19 12				637109
35284	SACRAMENTO, CAL.	8517	11 10	13 23 38.4			180 00	47 08		637109
54719	TULEAR, MADAG.	6404	11 10	16 45 00.0			274 00	17 12		845309
54720	TULEAR, MADAG.	6404	11 10	16 46 30.0			287 48	20 00		845309
54721	TULEAR, MADAG.	6404	11 10	16 47 00.0			292 48	20 48		845309
54722	TULEAR, MADAG.	6404	11 10	16 48 00.0			303 00	21 42		845309
54723	TULEAR, MADAG.	6404	11 10	16 49 00.0			312 48	21 18		845309
54724	TULEAR, MADAG.	6404	11 10	16 50 00.0			332 24	19 24		845309
35540	MITAKA, JAPAN	0229	11 10	17 03 14.5			27 12	44 54		845303
35543	KAGOSHIMA, JAPAN	0218	11 10	17 09 18	10 40	41 54				845002
35541	MITAKA, JAPAN	0229	11 10	17 10 16.0			65 18	40 12		845303
35542	MITAKA, JAPAN	0229	11 10	17 11 18.2			71 42	35 24		845303
35544	MITAKA, JAPAN	0229	11 10	19 09 07.3			297 36	59 30		845303
11130	TOKYU'BN, JAPAN	9005	11 10	19 11 57.70	7 17 54	32 51				434013
35545	MITAKA, JAPAN	0229	11 10	19 12 03.5			227 36	84 24		845303
35548	KAGOSHIMA, JAPAN	0218	11 10	19 14 00	10 14	26 12				845002

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35547	KANAYA MACHI, JAPAN	0220	11 10	19 15 42.0	10 05	10 48				845002
35546	MITAKA, JAPAN	0229	11 10	19 15 52.2			136 06	53 18		845303
11132	MAINI TAL'BN, INDIA	9006	11 10	21 04 26.99	10 22 24	57 12				434013
35516	BAGUIO CITY, PH.IS.	0504	11 10	21 09 07.2			330 18 36	23 00 36		845302
35517	BAGUIO CITY, PH.IS.	0504	11 10	21 15 37.2			6 49 48	57 20 24		845302
35518	BAGUIO CITY, PH.IS.	0504	11 10	21 29 37.1			125 42 00	5 30 00		845302
11140	SHIRAZ'BN, IRAN	9008	11 10	23 01 12.95	9 39 48	67 43				434013
54917	FRUNZE, USSR	1058	11 10	23 02 15.3	4 56 00	36 00				845009
54918	FRUNZE, USSR	1058	11 10	23 03 07.8	5 42 30	32 00				845009
54919	FRUNZE, USSR	1058	11 10	23 03 10.0	5 35 00	32 00				845009
11133	MAINI TAL'BN, INDIA	9006	11 10	23 04 31.95	4 29 48	58 16				434013
35288	PUEBLA, MEX.	0900	11 11	0 22 23.7	1 42 18	-25 07				845043
11173	CURACAO'BN, N.W.I.	9009	11 11	0 26 04.50	22 59 12	16 28				434013
54915	EREVAN, USSR	1018	11 11	1 00 53.2	5 26 42	39 30				845009
55886	RODEWISCH, GER.	2733	11 11	1 02 41.3	9 27 54	4 42				834009
11141	SHIRAZ'BN, IRAN	9008	11 11	1 02 41.72	4 27 24	53 59				434013
54916	EREVAN, USSR	1018	11 11	1 03 30.6	7 27 36	27 42				845009
55887	RODEWISCH, GER.	2733	11 11	1 05 48.3	10 02 42	-2 48				834009
35289	PUEBLA, MEX.	0900	11 11	2 19 48.5	20 47 30	-38 00				845043
11126	ORGAN PASS'BN, N.W.I.	9001	11 11	2 24 41.20	0 37 54	-29 20				434023
54652	MEUDON, FR.	2715	11 11	2 57 03.60			173 56	64 46		637109
54653	MEUDON, FR.	2715	11 11	2 58 11.00			156 27	58 20		637109
54654	MEUDON, FR.	2715	11 11	2 59 38.90			144 56	46 39		637109
54655	MEUDON, FR.	2715	11 11	3 00 07.90			140 56	45 33		637109
54656	MEUDON, FR.	2715	11 11	3 01 03.00			136 50	39 54		637109
54658	MEUDON, FR.	2715	11 11	3 03 01.60			131 26	29 08		637109
54659	MEUDON, FR.	2715	11 11	3 03 35.60			130 13	26 24		637109
54660	MEUDON, FR.	2715	11 11	3 04 07.80			129 17	23 58		637109
54661	MEUDON, FR.	2715	11 11	3 05 11.40			127 49	19 28		637109
54662	MEUDON, FR.	2715	11 11	3 06 08.50			126 42	15 42		637109
54663	MEUDON, FR.	2715	11 11	3 07 10.80			125 42	11 41		637109
54664	MEUDON, FR.	2715	11 11	3 08 11.50			124 54	6 41		637109
54665	MEUDON, FR.	2715	11 11	3 09 05.80			124 16	3 49		637109
54666	MEUDON, FR.	2715	11 11	3 10 02.80			123 42	3 02		637109
54667	MEUDON, FR.	2715	11 11	5 01 46.90			199 53	30 42		637109
54668	MEUDON, FR.	2715	11 11	5 03 06.70			197 30	19 56		637109
54669	MEUDON, FR.	2715	11 11	5 04 09.20			190 40	27 06		637109
54658	MEUDON, FR.	2715	11 11	5 04 17.90	7 57 58	2 38				637009
54659	MEUDON, FR.	2715	11 11	5 05 04.93	8 14 31	4 24				637009
54670	MEUDON, FR.	2715	11 11	5 05 08.30			165 01	24 10		637109
54671	MEUDON, FR.	2715	11 11	5 06 15.30			178 39	20 07		637109
54672	MEUDON, FR.	2715	11 11	5 07 05.70			174 42	17 00		637109
54673	MEUDON, FR.	2715	11 11	5 08 12.10			170 44	13 38		637109
54674	MEUDON, FR.	2715	11 11	5 09 16.20			167 30	10 27		637109
54675	MEUDON, FR.	2715	11 11	5 10 21.60			163 58	6 31		637109
35292	ROANOKE, VA.	0072	11 11	6 54 10	6 45	46				845044
35295	N.CANTON, OHIO	8959	11 11	8 56 03.5	9 15 15	13 57				845043
11174	CURACAO'BN, N.W.I.	9009	11 11	9 02 11.51	11 20 48	44 48				434013
35550	KAGOSHIMA, JAPAN	0218	11 11	10 10 30	20 48	-27				845002
35549	KANAYA MACHI, JAPAN	0220	11 11	10 11 58	23 00	-47				845002
35570	KAGOSHIMA, JAPAN	0218	11 11	10 13 57.5	0 29	-34 48				845002
35551	KAGOSHIMA, JAPAN	0216	11 11	10 14 59	0 55	-29				845002
35296	CHINA LAKE, CAL.	8988	11 11	10 48 17.6			22 43 12	63 39 36		845303
35297	ALBUQUERQUE, N.M.	8979	11 11	10 50 57			0 00	76 16		845302
35290	PUEBLA, MEX.	0900	11 11	10 56 06.0	10 29 06	44 27				845043
35291	PUEBLA, MEX.	0900	11 11	11 07 43.1	12 31 36	-9 06				845043
35519	BAGUIO CITY, PH.IS.	0504	11 11	12 06 25.7			230 49 48	9 36 36		845302
35520	BAGUIO CITY, PH.IS.	0504	11 11	12 06 37.2			233 55 48	20 31 24		845302
35521	BAGUIO CITY, PH.IS.	0504	11 11	12 11 14.5			241 54 36	39 37 48		845302
35553	KAGOSHIMA, JAPAN	0218	11 11	12 12 25.0	20 45 00	-25 48				845002
35554	KAGOSHIMA, JAPAN	0218	11 11	12 14 04.6	21 16 18	-20 48				845002
35552	MIYAZAKI, JAPAN	0230	11 11	12 14 04.8	21 12 30	-20 54				845002
35298	ALBUQUERQUE, N.M.	8979	11 11	13 02 15.3			180 00	25 46		845303
54657	MEUDON, FR.	2715	11 11	13 02 32.10			132 45	31 37		637109
11134	MAINI TAL'BN, INDIA	9006	11 11	14 11 48.76	0 28 00	-20 53				434013
54725	TULEAR, MADAG.	6404	11 11	15 56 30.0			306 12	25 00		845309
54726	TULEAR, MADAG.	6404	11 11	15 57 00.0			311 42	24 36		845309
54727	TULEAR, MADAG.	6404	11 11	15 58 30.0			322 36	23 12		845309
54728	TULEAR, MADAG.	6404	11 11	15 59 00.0			332 00	21 05		845309
54729	TULEAR, MADAG.	6404	11 11	16 00 30.0			344 42	17 00		845309
54730	TULEAR, MADAG.	6404	11 11	16 01 00.0			350 06	15 24		845309
54731	TULEAR, MADAG.	6404	11 11	16 02 00.0			352 30	12 30		845309
54732	TULEAR, MADAG.	6404	11 11	16 03 00.0			357 00	9 42		845309
54733	TULEAR, MADAG.	6404	11 11	16 04 00.0			360 42	6 54		845309
54734	TULEAR, MADAG.	6404	11 11	16 05 00.0			4 06	4 24		845309
35555	MITAKA, JAPAN	0229	11 11	16 41 42.6			62 24	36 24		845303
35556	MITAKA, JAPAN	0229	11 11	16 42 51.7			69 12	33 18		845303
35557	MITAKA, JAPAN	0229	11 11	16 43 45.9			73 24	29 30		845303
55294	SPETSAL, GR.	8078	11 11	18 06 08.12			356 10 48	16 40 12		845309
55295	SPETSAL, GR.	8078	11 11	18 07 18.12			349 06 36	20 58 48		845309
35564	KAGOSHIMA, JAPAN	0218	11 11	18 39 21	5 30	67 24				845002
35558	MITAKA, JAPAN	0229	11 11	18 40 01.6			305 48	55 24		845303
35561	KONKO, JAPAN	0224	11 11	18 40 39.2	6 13	56 00				845002
11131	TOKYO'BN, JAPAN	9005	11 11	18 41 39.60	5 43 30	45 26				434013
35559	MITAKA, JAPAN	0229	11 11	18 44 28.9			123 06	80 48		845303
35560	MITAKA, JAPAN	0229	11 11	18 47 00.6			125 42	56 36		845303
35562	KANAYA MACHI, JAPAN	0220	11 11	18 47 35	10 06	12				845002
35563	YOKKAICHI, JAPAN	0258	11 11	18 49 34	10 28	-1				845002
35522	BAGUIO CITY, PH.IS.	0504	11 11	20 40 37.3			353 46 12	22 40 12		845302
35569	KANAYA MACHI, JAPAN	0220	11 11	20 44 33	5 59	9				845002
35320	QUEZON CITY, PH.IS.	0500	11 11	20 44 35			350	37		845302
35568	YOKKAICHI, JAPAN	0258	11 11	20 45 50	6 07	8				845002
35321	QUEZON CITY, PH.IS.	0500	11 11	20 46 50			7	48		845302
35565	MITAKA, JAPAN	0229	11 11	20 47 16.6			238 30	33 48		845303

OBS NO	STATION	STA NO	DATE	TIME	R. A.	DECL.	AZIMUTH	ALTITUDE	RANGE	INDEA
35566	MITAKA, JAPAN	0229	11 11	20 48 03.5			231 36	33 54		845303
35567	MITAKA, JAPAN	0229	11 11	20 48 52.4			224 24	33 24		845303
35522	QUEZON CITY, PH. IS.	0500	11 11	20 49 47			30	54		845302
35523	BAGUIO CITY, PH. IS.	0504	11 11	20 50 21.3			66 22 12	54 15 36		845302
35524	BAGUIO CITY, PH. IS.	0504	11 11	20 58 07.4			116 12 00	16 24 36		845302
11139	AREQUIPA-BN, PERU	9007	11 11	23 50 14.55	19 18 12	26 00				434013
11145	CURACAO-BN, N.W.I.	9009	11 11	23 57 32.75	23 00 48	6 18				434013
35299	CINCINNATI, OHIO	0050	11 12	0 00 24			131 46	7 30		845302
55882	POTSDAM	2729	11 12	0 32 43.2	8 39 36	8 17				834049
55883	POTSDAM	2729	11 12	0 33 46.1	8 39 36	5 22				834049
55296	SPETSAL, GR.	8078	11 12	0 33 50.29			255 37 00	37 37 36		834049
55884	POTSDAM	2729	11 12	0 34 55.8	9 11 24	2 22				834049
55885	POTSDAM	2729	11 12	0 37 01.4	9 34 54	-2 30				834049
55297	SPETSAL, GR.	8078	11 12	0 37 30.29			267 57 00	21 15 36		834049
55298	SPETSAL, GR.	8078	11 12	0 41 00.29			274 22 48	9 07 48		834049
35304	N.CANTON, OHIO	0053	11 12	1 57 51.7	22 00	-32 42				845302
35300	CINCINNATI, OHIO	0050	11 12	1 58 08.1			198 00	16 54		845302
35305	N.CANTON, OHIO	0053	11 12	1 58 54.6	22 42	-29 06				845304
55299	SPETSAL, GR.	8078	11 12	2 30 55.37			112 32 24	33 40 12		834049
55300	SPETSAL, GR.	8078	11 12	2 35 47.37			346 43 00	74 09 00		834049
55301	SPETSAL, GR.	8078	11 12	2 46 03.37			313 12 36	11 26 24		834049
35307	SACRAMENTO, CAL.	8517	11 12	3 54 46.8	22 49 14	-36 13				845303
35308	SACRAMENTO, CAL.	8517	11 12	3 56 44.0	23 39 30	-28 09				845303
54676	MEUDON, FR.	2715	11 12	4 29 15.00			241 34	36 02		837109
54677	MEUDON, FR.	2715	11 12	4 30 02.80			112 23	17 13		837109
11129	SAN FERNANDO-BN, SP.	9004	11 12	4 32 44.20	5 45 12	38 26				434013
54678	MEUDON, FR.	2715	11 12	4 31 08.20			225 06	37 36		837109
54679	MEUDON, FR.	2715	11 12	4 32 08.70			215 45	47 34		837109
54680	MEUDON, FR.	2715	11 12	4 34 12.90			205 34	36 36		837109
54681	MEUDON, FR.	2715	11 12	4 34 07.30			190 10	34 09		837109
54682	MEUDON, FR.	2715	11 12	4 35 04.60			174 23	34 30		837109
54683	MEUDON, FR.	2715	11 12	4 36 18.70			163 14	27 30		837109
54684	MEUDON, FR.	2715	11 12	4 37 10.70			150 34	24 44		837109
54685	MEUDON, FR.	2715	11 12	4 38 07.60			134 12	21 30		837109
54686	MEUDON, FR.	2715	11 12	4 39 08.00			120 12	18 12		837109
54687	MEUDON, FR.	2715	11 12	4 40 35.70			106 35	15 06		837109
54688	MEUDON, FR.	2715	11 12	4 41 06.60			103 35	11 30		837109
54689	MEUDON, FR.	2715	11 12	4 42 10.20			101 14	8 47		837109
35301	CINCINNATI, OHIO	0050	11 12	6 26 32.8			76 36	14 00		845302
11160	JUPITER-BN, FLA.	9010	11 12	8 24 43.23	8 17 18	56 19				434013
35302	CINCINNATI, OHIO	0050	11 12	8 24 51			85 40	61 11		845302
35293	ROANOKE, VA.	0072	11 12	8 28 31	8 19	47 11				845304
11161	JUPITER-BN, FLA.	9010	11 12	8 29 14.25	12 49 48	36 41				434013
35309	MILWAUKEE, WISC.	0074	11 12	8 29 31.4			111 35	22 30		845304
35310	MILWAUKEE, WISC.	0074	11 12	8 31 44.6			111 37	14 34		845302
11162	JUPITER-BN, FLA.	9010	11 12	8 32 00.70	12 04 36	19 23				434013
35311	DENVER, COLO.	8582	11 12	10 22 10.2			272 35	86 36		845303
35303	CINCINNATI, OHIO	0050	11 12	10 27 10.8			211 41	28 16		845302
35314	BILOXI, MISS.	0090	11 12	10 28 30.5			271	84		845302
35315	NEW ORLEANS, LA.	0030	11 12	10 28 51			0	70 00		845302
35316	N.CANTON, OHIO	8565	11 12	10 30 17.8	7 36 39	-8 33				845304
11163	JUPITER-BN, FLA.	9010	11 12	10 31 57.33	7 10 48	14 11				434013
35306	N.CANTON, OHIO	8591	11 12	10 32 54	0 14 28	17 14				845304
35525	BAGUIO CITY, PH. IS.	0504	11 12	11 49 37.4			215 27 48	73 46 36		845302
35319	CHINA LAKE, CAL.	8585	11 12	11 49 12.1			214 43 48	66 0 24		845303
35312	DENVER, COLO.	8582	11 12	11 49 12.8			234 15 00	37 1		845303
35313	DENVER, COLO.	8582	11 12	11 49 04.9			208 14	35 12		845303
11136	NAINI TAL-BN, INDIA	9006	11 12	12 42 30.01	23 18 43	-32 34				434013
11143	SHIRAZ-BN, IRAN	9008	11 12	15 47 36.6	0 43 48	-15 14				434013
35571	KAGOSHIMA, JAPAN	0218	11 12	16 14 37	10 17 30	30 18				845302
35573	KAGOSHIMA, JAPAN	0218	11 12	16 17 46.4			100 00	71 00		845302
35572	YATSUSHIRO, JAPAN	0272	11 12	16 17 40			334 46 11	29 29 00		845304
35526	BAGUIO CITY, PH. IS.	0504	11 12	20 12 12.3			237 00	96 06		845304
35574	YATSUSHIRO, JAPAN	0272	11 12	20 15 40						845304
35575	KAGOSHIMA, JAPAN	0218	11 12	20 17 46	5 07	23 00				845304
35527	BAGUIO CITY, PH. IS.	0504	11 12	20 19 35.3			34 37 36	30 12 11		845304
35528	BAGUIO CITY, PH. IS.	0504	11 12	20 33 44.2			117 18	1 04 14		845304
11148	CURACAO-BN, N.W.I.	9009	11 12	23 57 32.75	23 00 48	30 38				434013
11812	NAINI TAL-BN, INDIA	9006	11 13	0 18 39.84	8 05 06	-13 37				434013
35323	PUEBLA, MEX.	0900	11 13	1 28 29.2	0 05 14	-9 06				845304
35318	N.CANTON, OHIO	8536	11 13	1 29 55.2	22 05 00	-23 46				845304
11127	ORGAN PASS-BN, N.M.	9001	11 13	1 30 59.44	1 41 30	-16 24				434013
35327	TERRE HAUTE, IND.	8127	11 13	1 31 02.4			280	11 30		845303
11149	CURACAO-BN, N.W.I.	9009	11 13	1 31 27.17	19 40 30	19 50				434013
35317	N.CANTON, OHIO	8565	11 13	1 31 16.7	12 37 30	-25 34				845304
35329	N.CANTON, OHIO	8544	11 13	1 32 18	2 09	-25 43				845304
35330	N.CANTON, OHIO	8559	11 13	1 32 18.4	12 37 40	-15 35				845304
54703	EL GULEA, ALG.	6411	11 13	2 03 00.0			57 18	36 18		845309
54704	EL GULEA, ALG.	6411	11 13	2 04 00.0			63 06	3 12		845309
55302	SPETSAL, GR.	8078	11 13	2 04 25.40			110 40 00	74 24 00		845309
54705	EL GULEA, ALG.	6411	11 13	2 05 00.3			59 36	29 12		845309
54706	EL GULEA, ALG.	6411	11 13	2 06 00.0			74 00	24 34		845309
54707	EL GULEA, ALG.	6411	11 13	2 07 00.0			78 18	21 54		845309
54708	EL GULEA, ALG.	6411	11 13	2 08 00.0			81 30	19 36		845309
54709	EL GULEA, ALG.	6411	11 13	2 09 00.0			85 00	14 48		845309
11144	SHIRAZ-BN, IRAN	9008	11 13	2 09 21.39	4 16 18	21 37				434013
54710	EL GULEA, ALG.	6411	11 13	2 10 00.0			86 48	12 30		845309
55303	SPETSAL, GR.	8078	11 13	2 10 56.40			310 50 14	43 34 12		845309
55304	SPETSAL, GR.	8078	11 13	2 13 19.40			309 38 14	29 42 12		845309
55305	SPETSAL, GR.	8078	11 13	2 14 39.4			309 16 12	22 47 14		845309
35331	CINCINNATI, OHIO	0050	11 13	7 57 45			90 42	47 36		845302
35332	DAYTON, OHIO	8557	11 13	7 58 21.6			97 06	44 21		845303
35584	KANAYA MACHI, JAPAN	0220	11 13	9 22 00	1 46	-15 24				845302

OBS NO	STATION	SIA NO	DATE	TIME	R. A.	DECL.	AZIMUTH	ALTITUDE	RANGE	INCL
11165	JUPITER*BN, FLA.	9010	11 13	10 05 39.65	9 48 18	53 43				434013
35576	KANAYA MACHI, JAPAN	0220	11 13	11 20 22	21 47	-16 54				845002
35577	YATSUSHIRO, JAPAN	0272	11 13	11 21 20			193 00	44 48		845302
35578	KAGOSHIMA, JAPAN	0218	11 13	11 21 26	22 59	- 5 00				845002
35585	MIYAZAKI, JAPAN	0230	11 13	11 21 36.2	22 55 00	- 4 30				845002
35333	CHINA LAKE, CAL.	8588	11 13	11 56 34.5			218 10 48	74 56 24		845303
35334	DENVER, COLO.	8582	11 13	12 01 54.6			193 00	54 30		845303
11128	ORGAN PASS*BN, N.M.	9001	11 13	12 01 59.65	7 51 06	- 2 32				434013
35335	DENVER, COLO.	8582	11 13	12 03 36.7			182 10	28 24		845303
11167	MAUI*BN, HAWAII	9012	11 13	15 59 09.03	6 48 48	14 39				434013
55306	SPETSAIL, GR.	8078	11 13	17 08 43.5			351 08 24	9 34 12		834309
55307	SPETSAIL, GR.	8078	11 13	17 11 53.5			351 11 24	18 25 48		834309
55308	SPETSAIL, GR.	8078	11 13	17 14 34.0			358 42 36	22 39 36		834309
11171	TOKYO*BN, JAPAN	9005	11 13	17 46 31.10	7 46 18	41 38				434013
35579	MITAKA, JAPAN	0229	11 13	17 48 12.7			96 12	65 06		845303
35580	MITAKA, JAPAN	0229	11 13	17 50 00.8			107 24	50 48		845303
35583	YATSUSHIRO, JAPAN	0272	11 13	17 51 13			90 00	27 06		845302
35582	KASHIWABARA, JAPAN	0222	11 13	17 51 28	10 05	10				845002
35581	MITAKA, JAPAN	0229	11 13	17 51 39.0			112 00	39 36		845303
11168	SAN FERNANDO*BN, SP.	9004	11 13	19 12 27.00	1 30 30	-11 08				434013
35586	MITAKA, JAPAN	0229	11 13	19 47 55.2			261 12	38 12		845303
35591	KAGOSHIMA, JAPAN	0218	11 13	19 48 47	6 30	24 00				845002
11172	TOKYO*BN, JAPAN	9005	11 13	19 49 27.30	5 47 30	7 17				434013
35587	MITAKA, JAPAN	0229	11 13	19 50 03.7			236 48	45 18		845303
35590	YATSUSHIRO, JAPAN	0272	11 13	19 51 43			180 00	60 00		845302
35588	MITAKA, JAPAN	0229	11 13	19 52 11.6			209 42	41 12		845303
35589	YOKKAICHI, JAPAN	0258	11 13	19 57 23	9 14	-31				845002
11233	SHIRAZ*BN, IRAN	9008	11 13	23 43 35.13	9 18 18	29 19				434013
11182	JUPITER*BN, FLA.	9010	11 14	1 00 04.55	20 37 06	-28 21				434023
35324	PUEBLA, MEX.	0900	11 14	1 01 28.6	23 48 18	-19 15				845002
11183	JUPITER*BN, FLA.	9010	11 14	1 03 06.49	22 01 06	- 9 09				434013
35328	TERRE HAUTE, IND.	8127	11 14	1 03 16.8			170	19 15		845303
35336	NACANTON, OHIO	8536	11 14	1 03 42.3	22 53 45	-29 12				841042
356121	MAQUISON, WISC.	5078	11 14	1 05 35.2	0 36 24	20 30				847007
35337	NACANTON, OHIO	8536	11 14	1 05 42	23 50	-19 48				841042
11184	JUPITER*BN, FLA.	9010	11 14	1 05 48.47	23 51 36	17 27				434013
54711	EL GULEA, ALG.	6411	11 14	1 16 30.0			66 12	27 00		845309
54712	EL GULEA, ALG.	6411	11 14	1 17 00.0			71 18	23 42		845309
55888	POTSDAM	2729	11 14	1 17 11.8	7 47 45	0 05				845049
54713	EL GULEA, ALG.	6411	11 14	1 18 00.0			75 12	20 22		845309
54779	BESANCON, FR.	2727	11 14	1 18 16.55			147 16	29 08		845309
55889	POTSDAM	2729	11 14	1 18 26.1	8 09 42	- 3 21				845049
54714	EL GULEA, ALG.	6411	11 14	1 19 00.0			78 42	17 06		845309
54780	BESANCON, FR.	2727	11 14	1 19 05.86			118 35	25 14		845309
55309	SPETSAIL, GR.	8078	11 14	1 19 33.4			301 22 11	64 49 48		834309
54715	EL GULEA, ALG.	6411	11 14	1 40 00.0			81 36	14 00		845309
54781	BESANCON, FR.	2727	11 14	1 40 16.55			117 48	20 10		845309
54716	EL GULEA, ALG.	6411	11 14	1 41 00.0			84 00	10 48		845309
54782	BESANCON, FR.	2727	11 14	1 41 15.98			117 21	16 28		845309
54717	EL GULEA, ALG.	6411	11 14	1 42 00.0			86 14	8 06		845309
54783	BESANCON, FR.	2727	11 14	1 42 15.59			118 51	12 11		845309
54718	EL GULEA, ALG.	6411	11 14	1 43 00.0			88 30	5 18		845309
55310	SPETSAIL, GR.	8078	11 14	1 43 09.4			303 22 11	36 25 24		834309
54784	BESANCON, FR.	2727	11 14	1 43 44.50			118 49	7 54		845309
54785	BESANCON, FR.	2727	11 14	1 44 09.38			118 23	6 37		845309
55311	SPETSAIL, GR.	8078	11 14	1 45 07.4			303 32 48	25 52 48		834309
11234	SHIRAZ*BN, IRAN	9008	11 14	1 46 13.68	6 14 48	1 28				434013
35325	PUEBLA, MEX.	0900	11 14	1 51 42.6	20 39 36	21 40				845002
35338	SAN JOSE, CAL.	8573	11 14	1 52 06.1	0 41 28	-18 43				845002
35339	FORT WORTH, TEX.	0134	11 14	1 53 48.4	21 36 48	- 0 06				845013
11169	SAN FERNANDO*BN, SP.	9004	11 14	1 55 00.70	6 54 00	38 06				434013
54786	BESANCON, FR.	2727	11 14	1 55 49.55			173 31	28 16		834309
54787	BESANCON, FR.	2727	11 14	1 56 19.31			171 26	26 39		834309
54788	BESANCON, FR.	2727	11 14	1 56 49.42			166 35	24 22		834309
54789	BESANCON, FR.	2727	11 14	1 57 17.44			163 32	19 14		834309
54790	BESANCON, FR.	2727	11 14	1 57 42.86			160 45	16 07		834309
54791	BESANCON, FR.	2727	11 14	1 58 04.14			158 32	13 18		834309
54792	BESANCON, FR.	2727	11 14	1 58 06.57			156 12	10 02		834309
11199	MAUI*BN, HAWAII	9012	11 14	4 53 36.79	22 47 12	-33 10				434013
54793	BESANCON, FR.	2727	11 14	5 35 30.47			252 13	12 57		834309
54794	BESANCON, FR.	2727	11 14	5 36 11.11			248 44	13 19		834309
54795	BESANCON, FR.	2727	11 14	5 37 18.42			242 49	13 35		834309
54796	BESANCON, FR.	2727	11 14	5 38 12.14			238 07	13 30		834309
54797	BESANCON, FR.	2727	11 14	5 39 16.56			232 31	13 07		834309
11170	SAN FERNANDO*BN, SP.	9004	11 14	5 39 48.30	6 41 54	- 4 27				434013
54798	BESANCON, FR.	2727	11 14	5 40 18.07			227 15	12 25		834309
54799	BESANCON, FR.	2727	11 14	5 41 00.02			223 45	11 50		834309
54800	BESANCON, FR.	2727	11 14	5 42 06.90			218 25	10 35		834309
54801	BESANCON, FR.	2727	11 14	5 43 09.96			213 35	9 10		834309
54802	BESANCON, FR.	2727	11 14	5 44 02.32			209 48	7 52		834309
54803	BESANCON, FR.	2727	11 14	5 45 35.17			203 37	5 20		834309
11200	MAUI*BN, HAWAII	9012	11 14	6 58 59.59	20 47 12	35 00				434013
35592	KANAYA MACHI, JAPAN	0220	11 14	8 55 13.6	1 58	- 8 42				845002
35294	POANOKI, VA.	0072	11 14	9 33 20	5 38 20	2 10				845042
11186	JUPITER*BN, FLA.	9010	11 14	9 39 22.09	9 59 06	- 9 49				434013
11151	CURACAO*BN, N.W.I.	9009	11 14	9 41 43.18	9 46 06	12 53				434013
35450	QUEZON CITY, PH.IS.	0500	11 14	10 42 43			217	20		845302
35451	QUEZON CITY, PH.IS.	0500	11 14	10 44 25			216	30 30		845302
35452	QUEZON CITY, PH.IS.	0500	11 14	10 46 12			213	50		845302
36470	HSINGCHU CITY, TAIWAN	0505	11 14	10 51 50.4	0 36 06	2 54				845042
35593	KANAYA MACHI, JAPAN	0220	11 14	10 53 50.6	22 50	- 7 30				845002
35596	HIGASHIMATSUYAMA, JAP	0210	11 14	10 54 46.9	22 39 36	- 5 24				845002
35594	MIYAZAKI, JAPAN	0230	11 14	10 54 56.0	0 15 00	7 42				845002
35595	KAGOSHIMA, JAPAN	0218	11 14	10 54 58	23 57	- 0 36				845002

OBS NO	STATION	SIA NO	DATE	TIME	R. A.	DECL.	AZIMUTH	ALTITUDE	RANGE	INDEX
35340	SACRAMENTO, CAL.	8517	11 14	11 26 28.7			180 00	77 29		641304
35341	DENVER, COLO.	8592	11 14	11 28 17.7			238 45 00	46 18		845303
35342	WALNUT CREEK, CAL.	8535	11 14	11 28 18.8	7 58 50	16 12				845004
35326	PUEBLA, MEX.	0900	11 14	11 37 18.0	8 23 48	12 14				845043
35529	PASAY CITY, PHILS.	0501	11 14	11 46 34			160	68		845302
36471	HSINCHU CITY, TAIWAN	0505	11 14	12 30 14.7	19 53 00	6 06				845042
36472	HSINCHU CITY, TAIWAN	0505	11 14	12 32 38.5	20 24	23 48				845042
11221	MAUI, HAWAII	9011	11 14	13 28 00.49	10 16 24	41 35				434013
11179	MAUI, HAWAII	9006	11 14	14 47 38.72	21 07 54	-6 41				434013
11212	MAUI, HAWAII	9012	11 14	15 38 51.82	7 07 54	15 39				434013
55312	SPETSAL, UR.	8078	11 14	16 41 50.2			337 21 36	11 48 00		834309
55313	SPETSAL, UR.	8078	11 14	16 44 59.7			314 26 24	17 52 12		834309
11191	SHIRAZ, IRAN	9008	11 14	16 46 53.50	21 22 54	5 23				434013
55314	SPETSAL, UR.	8078	11 14	16 48 04.2			289 45 36	16 13 46		834309
35592	KAGOSHIMA, JAPAN	0218	11 14	17 21 20.5	10 16	24 48				845002
35597	KASHIABARA, JAPAN	0222	11 14	17 24 08	10 10	7				845002
11126	SAN FERNANDO, PH.	9004	11 14	18 42 38.0	0 53 24	-19 56				434013
35601	KASHIABARA, JAPAN	0222	11 14	19 13 11	5 25	20				845002
11177	TOKYO, JAPAN	9005	11 14	19 17 14.90	4 11 00	21 58				434013
35515	KANAYA MACHI, JAPAN	0220	11 14	19 19 28.1	5 15	21 30				845002
35519	MITAKA, JAPAN	0229	11 14	19 19 11.7			254 24	45 24		845303
35512	MITAKA, JAPAN	0229	11 14	19 21 07.9			235 48	48 42		845303
35511	MITAKA, JAPAN	0229	11 14	19 21 11.7			221 54	48 42		845303
35517	KAGOSHIMA, JAPAN	0218	11 14	19 22 48	6 33	22				845002
35514	YOKKAICHU, JAPAN	0258	11 14	19 23 44	7 25	-3				845002
35513	KUNO, JAPAN	0224	11 14	19 23 22.8	7 52 00	-2 00				845002
35512	MITAKA, JAPAN	0229	11 14	19 23 30.5			105 46	46 12		845303
11180	MAUI, HAWAII	9006	11 14	19 24 11.24	10 02 30	24 00				434013
35510	MAUI, HAWAII	9006	11 14	19 24 16			294	49		845302
35541	MAUI, HAWAII	9004	11 14	19 24 34			180 20 46	53 25 46		845302
35542	MAUI, HAWAII	9005	11 14	19 28 14.5			226	67		845302
35543	MAUI, HAWAII	9004	11 14	19 28 15.1			212 34 46	63 12 00		845302
35544	MAUI, HAWAII	9001	11 14	19 30 29			180	52		845302
35545	MAUI, HAWAII	9006	11 14	19 32 04.5			165	40		845302
35546	MAUI, HAWAII	9004	11 14	19 33 11.2			162 34 46	32 28 12		845302
35547	MAUI, HAWAII	9006	11 14	19 36 47			155 46	40		845302
11181	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11182	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11183	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11184	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11185	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11186	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11187	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11188	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11189	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11190	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11191	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11192	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11193	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11194	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
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11197	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
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11199	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11200	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11201	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11202	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11203	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11204	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11205	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11206	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11207	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11208	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11209	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11210	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11211	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11212	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11213	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11214	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11215	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11216	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11217	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11218	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11219	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11220	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11221	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11222	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11223	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11224	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11225	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11226	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11227	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11228	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11229	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11230	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11231	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11232	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11233	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11234	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11235	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11236	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11237	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11238	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11239	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11240	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11241	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11242	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11243	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11244	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11245	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11246	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11247	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11248	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11249	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11250	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11251	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11252	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11253	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11254	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11255	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11256	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11257	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11258	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013
11259	SHIRAZ, IRAN	9008	11 14	19 40 01.06	7 48 06	21 40				434013

OBS NO	STATION	STA NO	DATE	TIME	R. A.	DECL.	AZIMUTH	ALTITUDE	RANGE	INDEX
35350	PUEBLA, MEX.	0900	11 15	11 06 46.7	7 42 12	24 38				845043
35351	PUEBLA, MEX.	0900	11 15	11 12 12.5	10 08 36	-15 31				845043
35644	BAGUIO CITY, PH. IS.	0904	11 15	12 19 10.6			272 19 48	14 48		845302
35645	BAGUIO CITY, PH. IS.	0904	11 15	12 23 33.5			307 37 12	29 07 12		845302
35618	KANAYA MACHI, JAPAN	0220	11 15	12 23 59.2	20 10	-1 00				845002
35646	BAGUIO CITY, PH. IS.	0904	11 15	12 25 41.9			331 03 00	30 34 12		845302
35617	YOKKAICHI, JAPAN	0258	11 15	12 25 43	20 24	5				845002
35619	MIYAZAKI, JAPAN	0230	11 15	12 25 45.6	20 30 00	13 18				845002
35667	TAIPEI, TAIWAN	0902	11 15	12 27 14.0	19 52 42	7 48				845042
35663	WALNUT CREEK, CAL.	8935	11 15	13 07 25.6	6 27 15	-9 10				845003
11206	NAINI TALYEN, INDIA	9006	11 15	14 23 27.33	0 17 36	31 38				434013
11208	SHIRAZ, IRAN	9008	11 15	16 21 18.42	23 42 00	32 21				434013
35620	MITAKA, JAPAN	0229	11 15	16 53 31.3			99 54	36 24		845303
35621	MITAKA, JAPAN	0229	11 15	16 54 40.7			103 06	30 18		845303
35622	MITAKA, JAPAN	0229	11 15	16 57 33.2			108 12	17 54		845303
35626	KUNAO, JAPAN	0224	11 15	18 53 30.4	7 27 18	6 48				845002
35623	MITAKA, JAPAN	0229	11 15	18 53 41.2			210 06	53 24		845303
35624	MITAKA, JAPAN	0229	11 15	18 54 57.0			194 00	49 12		845303
11205	TOKYO, JAPAN	9005	11 15	18 56 04.80	7 39 42	-9 58				434013
35625	MITAKA, JAPAN	0229	11 15	18 56 16.7			181 30	43 12		845303
55315	SPELDAI, OR.	8078	11 15	20 15 34.0			81 16 48	9 16 48		834309
11207	SAN FERNANDO, SP.	9004	11 15	20 15 40.90	22 50 54	-0 06				434013
55316	SPELDAI, OR.	8078	11 15	20 16 09.5			82 21 36	11 38 24		834309
55317	SPELDAI, OR.	8078	11 15	20 16 47.0			83 37 48	14 16 48		834309
35647	BAGUIO CITY, PH. IS.	0904	11 15	20 52 28.5			305 23 24	37 34 48		845302
35627	YOKKAICHI, JAPAN	0258	11 15	20 53 58	5 24	-5				845002
35649	QUEZON CITY, PH. IS.	0904	11 15	20 57 31			279 30	71		845302
35648	BAGUIO CITY, PH. IS.	0904	11 15	20 58 17.8			230 34 48	73 33 00		845302
35650	QUEZON CITY, PH. IS.	0902	11 15	20 59 16			216 00	77		845302
35637	PASAY CITY, PH. IS.	0901	11 15	21 00 28			176	70		845302
35638	PASAY CITY, PH. IS.	0901	11 15	21 01 42			167	54 30		845302
35641	QUEZON CITY, PH. IS.	0902	11 15	21 08 45			148 30	20		845302
35649	BAGUIO CITY, PH. IS.	0904	11 15	21 11 26			146 11 24	3 19 48		845302
55343	FORT DE FRANCE, MART.	6405	11 15	22 10 00.0			75 24	44 24		845309
55344	FORT DE FRANCE, MART.	6405	11 15	22 11 00.0			71 12	37 36		845309
55345	FORT DE FRANCE, MART.	6405	11 15	22 16 00.0			51 00	13 12		845309
11211	JUPITER, FLA.	9010	11 16	0 01 54.17	20 48 38	-35 42				434023
35355	ST. PETER, BONA, FLA.	0111	11 16	0 03 45	21 48	-34 20				845042
11209	CORACALLEN, N.W. IS.	9009	11 16	0 05 46.65	19 27 06	-26 49				434013
35356	ST. PETER, BONA, FLA.	0111	11 16	0 06 46	22 56	-20 10				845042
11212	JUPITER, FLA.	9010	11 16	0 06 50.81	22 38 38	-34 36				434013
35470	PUEBLA, MEX.	0900	11 16	0 07 35.33	21 47 32	16 18				845043
11213	JUPITER, FLA.	9010	11 16	0 10 56.39	3 56 00	45 46				434013
11214	SHIRAZ, IRAN	9008	11 16	0 17 56.12	6 43 48	8 57				434013
35358	ALBUQUERQUE, N.M.	8979	11 16	2 24 47			160 00	31 42		845302
35362	SAN JOSE, CAL.	8973	11 16	2 35 07.3	0 41 28	-19 58				845003
35361	CHINA LAKE, CAL.	0098	11 16	2 36 03.6			130 06 12	25 45 36		845303
35626	SAN ANTONIO, TEX.	0089	11 16	2 36 44.6	22 10	6 48				845002
35363	SAN ANTONIO, TEX.	0096	11 16	2 36 57.3	22 13 40	8 18				845043
15471	PUEBLA, MEX.	0900	11 16	2 37 00.6	3 10 48	64 24				845043
15475	SACRAMENTO, CAL.	8917	11 16	2 37 07.1	21 06	-11 01				641013
35647	SAN ANTONIO, TEX.	0089	11 16	2 37 11.8	22 40	12 15				845002
35372	FORT WORTH, TEX.	0119	11 16	2 37 44.4	21 30	3 48				845003
35354	SAN ANTONIO, TEX.	0096	11 16	2 37 54.3	22 52 12	17 43				845042
35365	EDINBURGH, TEX.	0066	11 16	2 38 04.3			352	84		845303
35369	EDINBURGH, TEX.	0066	11 16	2 39 13.5			25 30	69 30		845303
35470	BILGAY, MEX.	0090	11 16	2 39 17			270	60 30		845302
35362	CHINA LAKE, CAL.	0098	11 16	2 40 11.4			73 21 48	21 12 36		641303
35371	DEVER, CAL.	8997	11 16	2 40 11.6			126 11 36	39 30		845303
35367	ST. PETER, BONA, FLA.	0121	11 16	2 40 58	20 47	34 30				845042
54912	MEUDON, FR.	4715	11 16	2 42 11.70			157 05	29 19		637109
54913	MEUDON, FR.	4715	11 16	2 43 10.70			153 44	25 11		637109
54914	MEUDON, FR.	4715	11 16	2 44 14.20			150 39	21 04		637109
54913	ALGER, ALG.	6413	11 16	2 45 00.0			130 18	39 24		845309
54915	MEUDON, FR.	4715	11 16	2 45 19.30			148 22	17 07		637109
54914	ALGER, ALG.	6413	11 16	2 46 00.0			130 12	34 18		845309
54916	MEUDON, FR.	4715	11 16	2 46 03.30			146 31	14 31		637109
54915	ALGER, ALG.	6413	11 16	2 47 00.0			129 42	29 42		845309
54917	MEUDON, FR.	4715	11 16	2 47 07.30			144 37	11 04		637109
54916	ALGER, ALG.	6413	11 16	2 48 00.0			129 24	24 24		845309
54918	MEUDON, FR.	4715	11 16	2 48 21.70			142 42	7 14		637109
54917	ALGER, ALG.	6413	11 16	2 49 00.0			129 18	20 24		845309
54915	MEUDON, FR.	4715	11 16	2 49 04.70			141 48	5 11		637109
54918	ALGER, ALG.	6413	11 16	2 50 00.0			129 06	16 18		845309
54919	ALGER, ALG.	6413	11 16	2 51 00.0			129 06	12 36		845309
54920	ALGER, ALG.	6413	11 16	2 52 00.0			129 06	9 12		845309
54921	ALGER, ALG.	6413	11 16	2 53 00.0			129 06	6 12		845309
54922	ALGER, ALG.	6413	11 16	2 54 00.0			129 06	3 18		845309
35356	SACRAMENTO, CAL.	8917	11 16	4 07 49.6	23 12 42	6 24				641013
54940	MEUDON, FR.	4715	11 16	4 46 04.40			196 19	11 37		637109
54941	MEUDON, FR.	4715	11 16	4 46 33.00			194 23	10 37		637109
54942	MEUDON, FR.	4715	11 16	4 47 04.20			192 24	9 30		637109
11210	CORACALLEN, N.W. IS.	9009	11 16	8 44 29.22	4 58 00	14 42				434013
35677	QUEZON CITY, PH. IS.	0900	11 16	9 49 42			167	53		845302
35678	QUEZON CITY, PH. IS.	0900	11 16	9 52 06			100	57		845302
35679	QUEZON CITY, PH. IS.	0900	11 16	9 53 14			79	48 30		845302
35629	YATSUSHIRO, JAPAN	0472	11 16	9 53 19			180 00	28 18		845302
35630	MIZUSAWA, JAPAN	0267	11 16	9 54 00			203 54	15 00		845302
35628	KANAYA MACHI, JAPAN	0220	11 16	9 56 07	22 54	-16 54				845002
35634	MIYAZAKI, JAPAN	0230	11 16	10 01 04.8	2 41 18	21 48				845002
35632	YOKKAICHI, JAPAN	0258	11 16	10 01 08	1 54	18				845002
35631	KONKO, JAPAN	0224	11 16	10 01 13.0	2 20 30	17 30				845002
35633	KASHIWARA, JAPAN	0222	11 16	10 01 20	2 10	20				845002
35359	ALBUQUERQUE, N.M.	8979	11 16	10 33 25.7			180 00	66 42		845302

OBS. NO.	STATION	SIA. NO.	DATE	TIME	R. A.	DECL.	ALTIMUTH	ALTITUDE	RANGE	INDEX
35472	PUEBLA, MEX.	0900	11 16	10 36 56.8	7 20 48	35 06				845043
35473	PUEBLA, MEX.	0900	11 16	10 37 35.0	7 47 48	29 52				845043
35474	PUEBLA, MEX.	0900	11 16	10 41 11.0	9 33 42	1 40				845043
35650	BAGUIO CITY, PH. I.	0904	11 16	11 50 35.8			270 25 48	18 14 24		845302
35680	QUEZON CITY, PH. I.	0900	11 16	11 52 03			286	23		845302
35475	TAIPEI, TAIWAN	0902	11 16	11 52 37.7	20 33	26 36				845042
35681	QUEZON CITY, PH. I.	0900	11 16	11 54 34			302	28 30		845302
35651	BAGUIO CITY, PH. I.	0904	11 16	11 55 40.8			320 33 36	34 25 48		845302
35635	YOKKAICHI, JAPAN	0258	11 16	11 56 04	20 08	- 1				845002
35682	QUEZON CITY, PH. I.	0900	11 16	11 56 16.9			330	31		845302
35638	MIZUSAWA, JAPAN	0267	11 16	11 57 00			254 00	14 34		845302
35636	KASHIABARA, JAPAN	0271	11 16	11 58 33	20 42	15				845002
35476	TAIPEI, TAIWAN	0902	11 16	11 58 41.6	22 47	53 12				845042
35652	BAGUIO CITY, PH. I.	0904	11 16	11 58 43.7			354 24 36	29 16 40		845302
35637	KANAYA MACHI, JAPAN	0270	11 16	11 59 11.6	20 42	16				845002
35367	SACRAMENTO, CAL.	0917	11 16	12 32 38.8	5 38 54	- 4 33				841013
11216	MAINI TAI'BN, INDIA	9036	11 16	13 54 19.98	0 08 06	25 45				843013
11223	SHIRAZ'BN, IRAN	9038	11 16	15 53 22.25	0 49 18	35 39				843013
54843	MEUDON, FR.	2715	11 16	17 46 03.40			153 13	5 48		837109
54844	MEUDON, FR.	2715	11 16	17 47 13.60			146 36	7 58		837109
55892	POTSDAM	2729	11 16	17 47 14.6	23 11 54	-29 44				834049
54845	MEUDON, FR.	2715	11 16	17 48 00.70			141 52	9 14		837109
54846	MEUDON, FR.	2715	11 16	17 49 01.60			135 23	10 33		837109
55891	POTSDAM	2729	11 16	17 49 29.7	0 03 24	-22 01				834049
54847	MEUDON, FR.	2715	11 16	17 50 12.90			127 32	11 36		837109
54848	MEUDON, FR.	2715	11 16	17 51 04.30			121 49	11 58		837109
55892	POTSDAM	2729	11 16	17 51 28.2	0 01 48	-14 26				834049
54849	MEUDON, FR.	2715	11 16	17 48 29.00			202 08	15 58		837109
55893	POTSDAM	2729	11 16	17 48 58.30	21 43 06	-20 49				834049
54850	MEUDON, FR.	2715	11 16	17 47 00.90			200 00	18 18		837109
54851	MEUDON, FR.	2715	11 16	17 48 03.08			195 03	20 58		837109
55894	POTSDAM	2729	11 16	17 48 44.3	11 12 34	-16 09				834049
11215	SAN FERNANDO'BN, SP.	9034	11 16	17 48 47.70	0 11 24	14 08				843013
54852	MEUDON, FR.	2715	11 16	17 49 04.40			188 27	19 07		837109
55895	POTSDAM	2729	11 16	17 49 44.00	22 32 36	-15 04				834049
35535	PASAY CITY, PH. I.	0904	11 16	18 05 06			306	26		845302
35536	PASAY CITY, PH. I.	0904	11 16	18 05 41			332	27		845302
35649	YOKKAICHI, JAPAN	0258	11 16	18 28 37	0 11	-20				845002
35653	BAGUIO CITY, PH. I.	0904	11 16	18 30 49.8			159 35 24	07 18 36		845302
35654	BAGUIO CITY, PH. I.	0904	11 16	18 34 24.8			146 57 36	41 36 40		845302
35655	BAGUIO CITY, PH. I.	0904	11 16	18 41 05.8			142 34 12	7 42 00		845302
11219	MAINI TAI'BN, INDIA	9036	11 16	18 42 06.79	7 19 12	5 31				843013
11218	MAINI TAI'BN, INDIA	9036	11 16	18 44 19.03	0 36 48	- 6 11				843013
11217	MAINI TAI'BN, INDIA	9036	11 16	18 49 06.73	0 43 44	- 8 11				843013
35477	COLUMBUS, OHIO	0051	11 16	18 51 17.7			154 30	17 46		845303
11227	JUPITER'BN, FLA.	9011	11 16	18 55 42.13	21 51 30	-33 15				845303
11226	JUPITER'BN, FLA.	9011	11 16	18 57 44.11	21 59 18	-24 09				845303
11229	JUPITER'BN, FLA.	9011	11 16	18 58 14.93	0 48 06	8 51				845303
35490	CINCINNATI, OHIO	0051	11 16	18 58 56.3			131 00	21 54		845303
35478	COLUMBUS, OHIO	0051	11 16	18 41 15.5			130 45 00	11 48		845303
35479	CANTON, OHIO	0051	11 16	18 41 35.4	0 41 09	-14 10				845303
11240	JUPITER'BN, FLA.	9011	11 16	18 42 03.27	21 54 34	-20 45				845303
16886	STATE COLLEGE, PA.	0051	11 16	18 42 07.8	0 41 30	-10 34				845304
35480	CANTON, OHIO	0051	11 16	18 42 15.8	0 38 19	-10 51				845304
35481	CANTON, OHIO	0051	11 16	18 42 17	1 10 40	- 8 14				845304
11220	MAINI TAI'BN, INDIA	9036	11 17	0 11 28.88	5 01 30	- 2 43				843013
11221	MAINI TAI'BN, INDIA	9036	11 17	0 13 22.44	5 35 26	-10 52				843013
11222	MAINI TAI'BN, INDIA	9036	11 17	0 19 55.01	7 14 24	-36 07				843013
35688	CHINA LAKE, CAL.	0588	11 17	1 37 00.4			129 40 40	22 08 24		845303
35484	SACRAMENTO, CAL.	0917	11 17	1 37 11.7	0 48 36	-18 06				841013
35375	TERRE HAUTE, IND.	0917	11 17	1 38 47.0			215 45	17 08		845303
35485	PUEBLA, MEX.	0900	11 17	1 39 41.5	0 06 30	58 52				845043
35373	TERRE HAUTE, IND.	0917	11 17	1 40 30.9			210	41		845302
35374	TERRE HAUTE, IND.	0917	11 17	1 40 41.0			210	41		845302
35487	ROCHESTER, N.Y.	0964	11 17	1 40 39.0	21 45 00	- 9 58				845304
35482	CANTON, OHIO	0051	11 17	1 41 51.2	21 59 42	- 0 09				845303
56172	MADISON-P. WISC.	0078	11 17	1 42 35.7	23 47 00	0 57				837007
35488	DENVER, COLO.	0051	11 17	1 42 34.9			105 45 00	31 18		845303
35489	CINCINNATI, OHIO	0051	11 17	1 42 57.6			200 06	64 26		845302
55896	POTSDAM	2729	11 17	2 14 57.4	7 13 48	-16 44				834049
55897	POTSDAM	2729	11 17	2 17 15.6	8 25 11	-22 33				834049
55898	POTSDAM	2729	11 17	2 18 56.1	8 17 12	-26 22				834049
35491	TUCSON, ARIZ.	0051	11 17	2 34 31.3			246 42	22 34		845303
35486	SACRAMENTO, CAL.	0917	11 17	3 38 44.2			180 00	53 23		841304
35492	SAN JOSE, CAL.	0917	11 17	3 39 56.4	0 10 12	15 00				845043
35689	CHINA LAKE, CAL.	0588	11 17	3 40 47.8			133 38 24	01 47 24		845303
54741	EL GULEA, ALG.	6411	11 17	4 14 00.0			254 00	44 18		845303
54742	EL GULEA, ALG.	6411	11 17	4 15 00.0			243 00	46 24		845303
54743	EL GULEA, ALG.	6411	11 17	4 16 00.0			230 24	47 00		845303
54744	EL GULEA, ALG.	6411	11 17	4 17 00.0			220 18	47 12		845303
54745	EL GULEA, ALG.	6411	11 17	4 18 00.0			207 18	45 24		845303
54746	EL GULEA, ALG.	6411	11 17	4 19 00.0			196 34	43 18		845303
54747	EL GULEA, ALG.	6411	11 17	4 20 00.0			188 18	38 30		845303
54748	EL GULEA, ALG.	6411	11 17	4 21 00.0			181 18	34 30		845303
54749	EL GULEA, ALG.	6411	11 17	4 22 00.0			175 24	30 06		845303
54750	EL GULEA, ALG.	6411	11 17	4 23 00.0			171 00	26 06		845303
11249	MAUI'BN, HAWAII	9012	11 17	5 33 27.27	21 49 18	41 11				843013
11231	JUPITER'BN, FLA.	9010	11 17	8 08 46.55	8 52 54	21 25				843013
11232	JUPITER'BN, FLA.	9010	11 17	8 10 59.76	9 33 00	6 52				843013
11224	CURACAO'BN, N.W.I.	9009	11 17	8 12 09.11	8 47 12	41 48				843013
11225	CURACAO'BN, N.W.I.	9009	11 17	8 13 04.98	9 13 30	34 25				843013
11226	CURACAO'BN, N.W.I.	9009	11 17	8 14 46.20	9 49 30	21 54				843013
56123	MADISON-P. WISC.	0078	11 17	10 06 36.0	6 13 00	11 55				837007
35493	PUEBLA, MEX.	0900	11 17	10 10 14.8	8 16 00	17 52				845043

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35496	PUEBLA, MEX.	0900	11 17	10 11 00.2	9 11 48	12 36				845043
35495	PUEBLA, MEX.	0900	11 17	10 12 42.9	9 47 48	0 21				845040
35656	BAGUIO CITY, PH. IS.	0504	11 17	11 24 05.7			287 37 12	32 52 12		845302
35657	BAGUIO CITY, PH. IS.	0504	11 17	11 27 26.3			334 41 24	38 00		845302
35683	QUEZON CITY, PH. IS.	0500	11 17	11 28 44			347	30 30		845302
35684	QUEZON CITY, PH. IS.	0500	11 17	11 29 30			354	30		845302
35685	QUEZON CITY, PH. IS.	0500	11 17	11 30 37			1	55		845302
35658	BAGUIO CITY, PH. IS.	0504	11 17	11 30 42			7 37 12	26 43 12		845302
11235	ORGAN PASS, BN, N.M.	9001	11 17	12 05 42.50	5 05 30	-1 52				434013
11236	ORGAN PASS, BN, N.M.	9001	11 17	12 08 57.64	6 12 00	-17 06				434013
11237	ORGAN PASS, BN, N.M.	9001	11 17	12 11 27.98	7 03 18	-28 32				434023
35486	PUEBLA, MEX.	0900	11 17	12 13 27.9	6 45 48	-16 16				845043
11240	NAINI TAL'BN, INDIA	9006	11 17	13 26 25.78	1 14 36	26 12				434013
11241	NAINI TAL'BN, INDIA	9006	11 17	13 27 44.93	2 12 24	32 13				434013
11242	NAINI TAL'BN, INDIA	9006	11 17	13 28 41.00	2 48 36	34 44				434013
35948	KAGOSHIMA, JAPAN	0218	11 17	17 58 21	9 11 30	0 48				845002
54804	BESANCON, FR.	2727	11 17	19 17 26.72			207 01	15 18		834309
54805	BESANCON, FR.	2727	11 17	19 18 45.66			201 47	21 32		834309
54806	BESANCON, FR.	2727	11 17	19 19 13.76			199 23	24 02		834309
54807	BESANCON, FR.	2727	11 17	19 20 22.01			192 25	30 12		834309
54808	BESANCON, FR.	2727	11 17	19 21 10.45			185 53	34 46		834309
54809	BESANCON, FR.	2727	11 17	19 22 00.89			177 23	39 16		834309
35949	KAGOSHIMA, JAPAN	0218	11 17	19 56 52	5 37	-3 48				845002
11243	NAINI TAL'BN, INDIA	9006	11 17	21 51 55.10	7 21 06	17 52				434013
11244	NAINI TAL'BN, INDIA	9006	11 17	21 52 30.73	7 47 42	10 56				434013
11245	NAINI TAL'BN, INDIA	9006	11 17	21 54 40.07	8 32 00	-0 29				434013
11814	CURACAO, BN, N.W.I.	9009	11 17	23 02 54.92	17 46 18	-19 12				434013
11815	CURACAO, BN, N.W.I.	9009	11 17	23 09 21.10	20 44 00	45 12				434013
35496	FT. BELVOIR, VA.	0077	11 17	23 10 06.3			161 00	21 12		845302
35497	N. CANTON, OHIO	8536	11 17	23 10 44.8	23 50	-25 03				641042
35498	N. CANTON, OHIO	8536	11 17	23 12 53	0 38 40	-13 36				641012
35499	N. CANTON, OHIO	8544	11 17	23 13 13.6	0 54 45	-11 52				845032
11816	CURACAO, BN, N.W.I.	9009	11 17	23 15 35.34	3 25 24	63 53				434013
11246	NAINI TAL'BN, INDIA	9006	11 17	23 54 13.95	5 27 42	-9 37				434013
11253	SHIRAZ, BN, IRAN	9008	11 17	23 55 38.54	9 15 00	-19 40				434013
11247	NAINI TAL'BN, INDIA	9006	11 17	23 56 24.35	6 47 48	-29 29				434023
11248	NAINI TAL'BN, INDIA	9006	11 17	24 00 45.27	7 33 00	-39 24				434023
35540	PUEBLA, MEX.	0900	11 18	1 06 20.1	20 28 54	9 17				845043
35541	PUEBLA, MEX.	0900	11 18	1 06 34.8	20 38 42	12 37				845043
35542	PUEBLA, MEX.	0900	11 18	1 06 50.0	20 51 30	16 53				845043
11313	JUPITER, BN, FLA.	9010	11 18	1 08 54.96	19 20 00	3 46				434013
35502	ST. PETERSBURG, FLA.	0121	11 18	1 09 31	19 50	6 40				845002
11314	JUPITER, BN, FLA.	9010	11 18	1 10 43.35	20 11 12	28 41				434013
35504	DAYTON, OHIO	8557	11 18	1 11 23.9			211 27	35 49		845303
35505	DAYTON, OHIO	8557	11 18	1 12 04.6			206 00	42 00		845303
11238	ORGAN PASS, BN, N.M.	9001	11 18	1 12 34.70	2 01 12	14 14				434013
35503	ST. PETERSBURG, FLA.	0121	11 18	1 12 36	21 14	39 20				845002
35507	TERRE HAUTE, IND.	8127	11 18	1 13 07.2			180	53 30		845303
11315	JUPITER, BN, FLA.	9010	11 18	1 13 45.08	22 16 00	61 14				434013
35500	N. CANTON, OHIO	8564	11 18	1 14 31.5	23 26 15	13 38				845033
35508	STATE COLLEGE, PA.	8594	11 18	1 14 46.6			214 00	57 36		845303
35509	STATE COLLEGE, PA.	8594	11 18	1 14 57.6			213 18	58 54		845303
11239	ORGAN PASS, BN, N.M.	9001	11 18	1 14 59.50	3 07 30	22 32				434013
35510	POCHESTER, N.Y.	8564	11 18	1 15 39.2	22 49 28	6 52				845014
35501	N. CANTON, OHIO	8565	11 18	1 15 12.1	23 19 57	13 34				845013
35504	CINCINNATI, OHIO	8555	11 18	1 15 11.3			145 36	69 24		845302
35506	DAYTON, OHIO	8557	11 18	1 15 43.4			132 32	67 34		845303
54810	BESANCON, FR.	2727	11 18	1 48 03.67			141 44	17 23		834309
54811	BESANCON, FR.	2727	11 18	1 49 40.11			139 05	11 52		834309
54812	BESANCON, FR.	2727	11 18	1 50 06.00			138 32	10 29		834309
54813	BESANCON, FR.	2727	11 18	1 51 20.15			137 11	6 42		834309
35511	SAN DIEGO, CAL.	0133	11 18	3 06 51.2	20 12 30	-14 30				845012
35493	PUEBLA, MEX.	0900	11 18	3 09 50.2	18 53 30	36 46				845043
35512	CHINA LAKE, CAL.	0098	11 18	3 11 21.3			143 01 12	73 43 12		641303
35512	SAN DIEGO, CAL.	0133	11 18	3 12 53.0	1 18	-2 54				845012
35515	CINCINNATI, OHIO	0050	11 18	3 13 11			269 42	20 36		845302
35513	SAN DIEGO, CAL.	0133	11 18	3 13 30.0	1 59	-41 24				845012
11256	SAN FERNANDO, BN, SP.	9004	11 18	3 45 59.10	7 16 06	-6 58				434013
54852	MEUDON, FR.	2715	11 18	3 46 13.20			195 00	18 45		637109
54854	MEUDON, FR.	2715	11 18	3 47 23.70			189 40	15 58		637109
54855	MEUDON, FR.	2715	11 18	3 48 02.90			187 00	14 26		637109
54856	MEUDON, FR.	2715	11 18	3 49 07.70			182 58	11 47		637109
11257	SAN FERNANDO, BN, SP.	9004	11 18	3 49 52.60	8 37 42	-23 11				434023
54857	MEUDON, FR.	2715	11 18	3 50 17.20			179 09	8 56		637109
54858	MEUDON, FR.	2715	11 18	3 51 14.40			175 21	6 35		637109
11268	SAN FERNANDO, BN, SP.	9004	11 18	3 52 41.60	9 23 42	-31 20				434023
11335	MAUI, BN, HAWAII	9012	11 18	5 03 27.95	21 23 06	25 54				434013
11336	MAUI, BN, HAWAII	9012	11 18	7 07 42.10	19 21 30	57 16				434013
11250	CURACAO, BN, N.W.I.	9009	11 18	7 43 09.68	9 07 12	40 26				434013
54735	CAYENNE, FR, GUIANA	6406	11 18	7 45 00.0			141 00	29 48		845309
54735	CAYENNE, FR, GUIANA	6406	11 18	7 46 00.0			143 00	24 00		845309
54737	CAYENNE, FR, GUIANA	6406	11 18	7 47 00.0			144 12	19 00		845309
11251	CURACAO, BN, N.W.I.	9009	11 18	7 47 31.31	10 26 30	9 20				434013
54738	CAYENNE, FR, GUIANA	6406	11 18	7 49 00.0			146 00	11 18		845309
54739	CAYENNE, FR, GUIANA	6406	11 18	7 50 00.0			146 48	8 00		845309
54740	CAYENNE, FR, GUIANA	6406	11 18	7 51 00.0			147 00	4 30		845309
11252	CURACAO, BN, N.W.I.	9009	11 18	7 52 11.51	11 27 30	-14 00				434013
35750	KONKO, JAPAN	0224	11 18	8 57 14.2	22 49 00	-28 48				845002
35751	YOKKAICHI, JAPAN	0258	11 18	8 58 33	23 07	-21				845002
11282	TOKYO, BN, JAPAN	9005	11 18	9 03 39.60	23 43 12	-9 05				434013
35752	MIZUSAWA, JAPAN	0267	11 18	9 05 00			104 00	34 12		845302
11316	JUPITER, BN, FLA.	9010	11 18	9 38 52.57	4 56 30	11 37				434013
11317	JUPITER, BN, FLA.	9010	11 18	9 40 26.07	5 36 48	3 20				434013
11318	JUPITER, BN, FLA.	9010	11 18	9 45 48.79	7 49 00	-26 56				434023

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11319	JUPITERBN, FLA.	9010	11 18	9 48 45.35	8 53 30	-38 48				434023
11320	JUPITERBN, FLA.	9010	11 18	9 52 33.75	10 11 42	-48 56				434023
35659	BAGUIO CITY, PH. IS.	0504	11 18	10 55 36.2			293 09 36	41 02 24		845302
35660	BAGUIO CITY, PH. IS.	0504	11 18	10 56 58.5			316 57 00	44 35 24		845302
35661	BAGUIO CITY, PH. IS.	0504	11 18	11 00 41			7 09 36	31 30		845302
11481	TOKYOBN, JAPAN	9005	11 18	11 01 47.30	20 36 18	15 36				434013
35943	KASHIWABARA, JAPAN	0222	11 18	11 02 25	21 27	60				845002
35944	YOKKAICHI, JAPAN	0258	11 18	11 04 22	22 35	45				845002
11293	NAINI TAL'BN, INDIA	9006	11 18	12 54 58.14	23 30 36	10 07				434013
11294	NAINI TAL'BN, INDIA	9006	11 18	12 59 56.40	2 48 12	30 43				434013
11295	NAINI TAL'BN, INDIA	9006	11 18	13 00 43.22	3 11 48	33 04				434013
11337	NAINI TAL'BN, INDIA	9012	11 18	13 36 48.75	8 51 18	12 38				434013
11801	NAINI TAL'BN, INDIA	9006	11 18	14 52 12.12	19 08 42	-0 54				434013
11802	NAINI TAL'BN, INDIA	9006	11 18	14 58 08.00	20 25 54	45 29				434013
11803	NAINI TAL'BN, INDIA	9006	11 18	14 59 33.96	21 16 30	59 52				434013
11908	MAUIBN, HAWAII	9012	11 18	15 42 09.40	7 05 30	-33 10				434023
35945	KASHIWABARA, JAPAN	0218	11 18	17 29 13	9 12	2 18				845002
11269	SAN FERNANDOBN, SP.	9004	11 18	18 52 32.60	1 39 18	15 26				434013
11270	SAN FERNANDOBN, SP.	9004	11 18	18 53 20.60	2 08 48	19 07				434013
11271	SAN FERNANDOBN, SP.	9004	11 18	18 54 47.90	2 56 48	23 39				434013
35697	QUEZON CITY, PH. IS.	0500	11 18	19 28 36			354	67		845302
35698	QUEZON CITY, PH. IS.	0500	11 18	19 30 48			52	78		845302
35946	KAGOSHIMAB, JAPAN	0218	11 18	19 30 52	6 51	-18 48				845002
35699	QUEZON CITY, PH. IS.	0500	11 18	19 33 00			170	64 30		845302
11172	SAN FERNANDOBN, SP.	9004	11 18	20 50 08.20	20 24 18	14 24				434013
11272	SAN FERNANDOBN, SP.	9004	11 18	20 51 30.10	20 54 12	25 39				434013
11274	SAN FERNANDOBN, SP.	9004	11 18	20 52 39.50	21 30 12	36 52				434013
35602	BAGUIO CITY, PH. IS.	0504	11 18	21 29 44.1			267 14 24	22 43 48		845302
35700	QUEZON CITY, PH. IS.	0500	11 18	21 31 31			26 24	26 30		845302
35603	BAGUIO CITY, PH. IS.	0500	11 18	21 32 26			249 36 00	27 25 48		845302
35701	QUEZON CITY, PH. IS.	0500	11 18	21 33 11			250	29 00		845302
35604	BAGUIO CITY, PH. IS.	0504	11 18	21 37 13.8			213 42 00	25 42 00		845302
35406	CAYENNE, F. G. IANNA	6406	11 18	22 37 00.0			292 08	11 00		845309
35407	CAYENNE, F. G. IANNA	6406	11 18	22 39 00.0			307 00	12 00		845309
35408	CAYENNE, F. G. IANNA	6406	11 18	22 41 00.0			323 00	14 30		845309
35409	CAYENNE, F. G. IANNA	6406	11 18	22 43 00.0			331 00	15 00		845309
35410	CAYENNE, F. G. IANNA	6406	11 18	22 45 00.0			336 18	15 30		845309
35411	CAYENNE, F. G. IANNA	6406	11 18	22 47 00.0			350 06	15 54		845309
35412	CAYENNE, F. G. IANNA	6406	11 18	22 49 00.0			1 48	11 30		845309
35413	CAYENNE, F. G. IANNA	6406	11 18	22 51 00.0			12 06	8 00		845309
35414	CAYENNE, F. G. IANNA	6406	11 18	22 53 00.0			16 24	6 00		845309
11296	NAINI TAL'BN, INDIA	9006	11 18	23 26 23.41	5 54 18	-16 10				434013
11297	NAINI TAL'BN, INDIA	9006	11 18	23 29 11.94	6 55 14	-30 19				434023
11298	NAINI TAL'BN, INDIA	9006	11 18	23 31 15.94	7 37 30	-38 52				434023
11311	JUPITERBN, FLA.	9010	11 19	0 37 48.12	14 18 11	2 28				434013
35702	PUEBLA, MEX.	9000	11 19	0 38 42.2	21 57 00	23 55				845043
35703	PUEBLA, MEX.	9000	11 19	0 38 55.4	22 11 12	26 48				845043
35704	PUEBLA, MEX.	9000	11 19	0 39 20.0	22 36 12	31 34				845043
11312	JUPITERBN, FLA.	9010	11 19	0 40 01.08	18 44 36	-11 11				434013
11313	JUPITERBN, FLA.	9010	11 19	0 42 21.68	10 08 18	24 23				434013
35705	PUEBLA, MEX.	9000	11 19	0 43 14.6			180	44 15		845302
11314	JUPITERBN, FLA.	9010	11 19	0 45 34.30	11 44 30	59 43				434013
11315	JUPITERBN, FLA.	9010	11 19	0 48 14.41	1 02 30	66 33				434013
11316	JUPITERBN, FLA.	9010	11 19	0 49 14.50	19 51 18	0 14				434013
35706	PUEBLA, MEX.	9000	11 19	0 49 00.0	18 43 11	39 35				845043
11317	PUEBLA, MEX.	9000	11 19	0 49 14.70	10 35 54	16 40				434013
35707	PUEBLA, MEX.	9000	11 19	0 49 44.0	0 07 12	2 35				641013
35708	PUEBLA, MEX.	9000	11 19	0 49 55.8			143 00 36	65 07 12		845303
35709	PUEBLA, MEX.	9000	11 19	0 49 55.8	1 49 30	18 12				845004
35710	PUEBLA, MEX.	9000	11 19	0 49 57.3	1 52 18	20 16				845003
35711	PUEBLA, MEX.	9000	11 19	0 49 57.7	19 03 42	65 10				845043
35712	PUEBLA, MEX.	9000	11 19	0 49 58.1	19 07 30	70 01				845043
11318	PUEBLA, MEX.	9000	11 19	0 49 59.40	0 06 00	57 06				434013
35713	PUEBLA, MEX.	9000	11 19	0 49 59.5			287 18 36	39 04 12		845303
11319	PUEBLA, MEX.	9000	11 19	0 49 59.5	10 43 06	11 14				434013
11320	PUEBLA, MEX.	9000	11 19	0 49 59.5	10 44 32	10 25				434013
11321	PUEBLA, MEX.	9000	11 19	0 49 59.5	10 57 06	-3 41				434013
35714	PUEBLA, MEX.	9000	11 19	0 49 59.5			192 54	5 42		845302
11322	PUEBLA, MEX.	9000	11 19	0 49 59.5	11 41 48	-16 48				434013
11323	PUEBLA, MEX.	9000	11 19	0 49 59.5	0 06 44	-7 11				434013
35715	PUEBLA, MEX.	9000	11 19	0 49 59.5	1 45	7 18				845002
11324	PUEBLA, MEX.	9000	11 19	0 49 59.5	1 44 30	10 48				434013
11325	PUEBLA, MEX.	9000	11 19	0 49 59.5	4 13 36	28 53				434013
11326	PUEBLA, MEX.	9000	11 19	0 49 59.5	6 43 11	-8 45				434013
11327	PUEBLA, MEX.	9000	11 19	0 49 59.5	7 47 12	-23 08				434023
35716	PUEBLA, MEX.	9000	11 19	0 49 59.5	10 35 00	-11 26				845043
11328	PUEBLA, MEX.	9000	11 19	0 49 59.5	7 24 48	-18 00				434013
11329	PUEBLA, MEX.	9000	11 19	0 49 59.5	9 24 48	-40 18				434023
11330	PUEBLA, MEX.	9000	11 19	0 49 59.5	10 20 18	-51 01				434023
35717	PUEBLA, MEX.	9000	11 19	0 49 59.5			200 00	31 30		845302
35718	PUEBLA, MEX.	9000	11 19	0 49 59.5			263 15 36	34 15 00		845302
35719	PUEBLA, MEX.	9000	11 19	0 49 59.5			306 32 24	30 57 36		845302
35720	PUEBLA, MEX.	9000	11 19	0 49 59.5			325 30	46 00		845302
35955	KAGOSHIMAB, JAPAN	0218	11 19	10 29 11	20 05	-0 48				845002
35721	QUEZON CITY, PH. IS.	0500	11 19	10 29 58			357 36	36 48		845302
35722	QUEZON CITY, PH. IS.	0500	11 19	10 31 16			9 00	30 12		845302
35723	QUEZON CITY, PH. IS.	0504	11 19	10 32 20.3			19 22 48	27 27 00		845302
11284	TOKYOBN, JAPAN	9005	11 19	10 32 27.80	20 30 12	11 59				434013
35947	KASHIWABARA, JAPAN	0222	11 19	10 33 18	21 30	27				845002
35948	KASHIWABARA, JAPAN	0220	11 19	10 34 06.4	22 14	37 18				845002
11285	TOKYOBN, JAPAN	9005	11 19	10 35 08.00	22 03 24	38 07				434013
11286	TOKYOBN, JAPAN	9005	11 19	10 35 24.00	22 17 24	40 53				434013
35959	KASHIWABARA, JAPAN	0224	11 19	10 36 41.7	2 46 30	51 36				845002
35960	KASHIWABARA, JAPAN	0230	11 19	10 36 43.5	2 44 30	55 36				845002

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35960	YOKKAICHI, JAPAN	0258	11 19	10 36 47	1 15	55				845002
11257	ORGAN PASS*BN, N.M.	9001	11 19	11 09 07.30	5 37 24	-7 25				434013
11258	ORGAN PASS*BN, N.M.	9001	11 19	11 12 35.10	6 56 36	-24 22				434023
11259	ORGAN PASS*BN, N.M.	9001	11 19	11 17 54.50	8 43 36	-42 56				434023
35718	PUEBLA, MEX.	0900	11 19	11 18 27.4	7 00 42	-23 46				845043
35719	PUEBLA, MEX.	0900	11 19	11 18 58.5	7 12 48	-26 55				845043
35720	PUEBLA, MEX.	0900	11 19	11 19 37.2	7 22 00	-29 17				845043
35967	KANAYA MACHI, JAPAN	0220	11 19	12 34 14.6	19 45	23				845002
35966	YOKKAICHI, JAPAN	0258	11 19	12 34 16	19 58	26				845002
11305	SHIRAZ*BN, IRAN	9008	11 19	14 20 52.16	21 14 48	-26 58				434023
11306	SHIRAZ*BN, IRAN	9008	11 19	14 23 58.20	23 26 36	0 51				434013
11299	NAINI TAL*BN, INDIA	9006	11 19	14 30 26.24	21 51 36	62 37				434013
11300	NAINI TAL*BN, INDIA	9006	11 19	14 31 04.75	22 47 12	67 55				434013
11301	NAINI TAL*BN, INDIA	9006	11 19	14 31 43.73	0 03 12	71 25				434013
35968	KAGOSHIMA, JAPAN	0218	11 19	17 02 01	9 33	-5 06				845002
11275	SAN FERNANDO*BN, SP.	9004	11 19	18 20 01.30	23 28 12	-11 04				434013
11276	SAN FERNANDO*BN, SP.	9004	11 19	18 21 02.80	0 07 08	-3 23				434013
54859	MEUDON, FR.	2715	11 19	18 21 49.60			170 54	21 35		637109
54860	MEUDON, FR.	2715	11 19	18 22 03.70			169 11	22 23		637109
11277	SAN FERNANDO*BN, SP.	9004	11 19	18 22 06.80	0 47 12	4 09				434013
54861	MEUDON, FR.	2715	11 19	18 23 06.90			160 18	25 43		637109
54862	MEUDON, FR.	2715	11 19	18 24 00.40			151 45	27 59		637109
35970	KAGOSHIMA, JAPAN	0218	11 19	19 01 29	6 52	-17 00				845002
11289	TOKYO*BN, JAPAN	9005	11 19	19 01 57.60	6 05 36	-22 22				434013
11290	TOKYO*BN, JAPAN	9005	11 19	19 02 41.60	6 20 36	-25 24				434023
35969	KONKO, JAPAN	0224	11 19	19 05 52.5	8 02 00	-34 48				845002
54751	EL GULEA, ALG.	6411	11 19	19 14 00.0			219 12	7 06		845309
54752	EL GULEA, ALG.	6411	11 19	19 15 00.0			219 00	11 06		845309
54753	EL GULEA, ALG.	6411	11 19	19 17 00.0			216 54	22 48		845309
54754	EL GULEA, ALG.	6411	11 19	19 18 00.0			215 00	30 18		845309
54755	EL GULEA, ALG.	6411	11 19	19 19 00.0			212 18	39 30		845309
54756	EL GULEA, ALG.	6411	11 19	19 20 00.0			209 00	50 00		845309
54757	EL GULEA, ALG.	6411	11 19	19 21 00.0			199 04	63 30		845309
54758	EL GULEA, ALG.	6411	11 19	19 22 00.0			166 30	76 00		845309
54759	EL GULEA, ALG.	6411	11 19	19 23 00.0			90 30	75 06		845309
54760	EL GULEA, ALG.	6411	11 19	19 24 00.0			66 30	68 24		845309
54761	EL GULEA, ALG.	6411	11 19	19 26 00.0			55 00	42 06		845309
54762	EL GULEA, ALG.	6411	11 19	19 27 00.0			52 12	34 36		845309
54863	MEUDON, FR.	2715	11 19	20 20 14.20			234 08	16 26		637109
54864	MEUDON, FR.	2715	11 19	20 21 15.60			232 36	20 58		637109
54865	MEUDON, FR.	2715	11 19	20 22 11.40			229 43	28 08		637109
54866	MEUDON, FR.	2715	11 19	20 23 09.60			226 40	34 20		637109
11278	SAN FERNANDO*BN, SP.	9004	11 19	20 23 48.50	21 53 00	39 40				434013
11279	SAN FERNANDO*BN, SP.	9004	11 19	20 24 20.50	22 42 00	45 03				434013
11280	SAN FERNANDO*BN, SP.	9004	11 19	20 24 52.50	22 56 54	50 03				434013
35668	BAGUIO CITY, PH.IS.	0504	11 19	20 58 50.2			276 58 12	23 07 12		845302
35669	BAGUIO CITY, PH.IS.	0504	11 19	21 05 14			230 31 48	33 48 00		845302
35670	BAGUIO CITY, PH.IS.	0504	11 19	21 11 20.7			187 46 12	20 02 24		845302
11302	NAINI TAL*BN, INDIA	9006	11 19	22 56 04.64	5 31 18	-9 33				434013
11303	NAINI TAL*BN, INDIA	9006	11 19	22 59 46.15	6 52 12	-28 01				434023
11304	NAINI TAL*BN, INDIA	9006	11 19	23 02 36.22	7 51 42	-39 32				434023
35724	PUEBLA, MEX.	0900	11 20	0 11 27.7	23 12 12	41 09				845043
11329	JUPITER*BN, FLA.	9010	11 20	0 11 39.16	19 33 30	6 00				434013
11330	JUPITER*BN, FLA.	9010	11 20	0 12 49.50	22 05 12	18 15				434013
35708	TERPE HAUTE, IND.	8127	11 20	0 13 14.2			180	35 45		845302
11331	JUPITER*BN, FLA.	9010	11 20	0 13 55.27	20 44 30	31 29				434013
35728	NEW ORLEANS, LA.	0030	11 20	0 14 38			90 00	44 30		845302
35729	BILOXI, MISS.	0090	11 20	0 14 49.5			90	64 54		845302
55065	AIKEN, S.C.	6023	11 20	0 15 11.2	22 33 34	19 42				845042
35730	N. CANTON, OHIO	8584	11 20	0 15 47.6	23 00 28	0 42				845033
35733	ST. LOUIS, MO.	0140	11 20	0 16 04.8	0 41 00	4 39				845012
35734	DAYTON, OHIO	8557	11 20	0 16 42.6			183 27	53 03		845303
35731	N. CANTON, OHIO	8544	11 20	0 16 53	23 44	7 40				845033
55066	ROCHESTER, N.Y.	5050	11 20	0 18 29.5	0 10 48	10 24				845013
35736	ROCHESTER, N.Y.	8564	11 20	0 18 30.8	0 10 48	11 55				845014
56124	MADISON-P. WISC.	5078	11 20	0 20 22.2	2 47 30	16 18				637007
35732	N. CANTON, OHIO	8572	11 20	0 20 32.7	2 48	28 30				845042
35751	CINCINNATI, OHIO	0050	11 20	1 49 44.5	21 57 04	43 33				845004
35752	CINCINNATI, OHIO	8555	11 20	1 49 51.1			290 12	54 48		845302
11260	ORGAN PASS*BN, N.M.	9001	11 20	2 10 54.32	20 10 12	3 32				434013
35738	SACRAMENTO, CAL.	8517	11 20	2 11 31.7	23 28 06	-8 18				641013
11261	ORGAN PASS*BN, N.M.	9001	11 20	2 14 36.52	22 50 24	42 21				434013
35741	SAN JOSE, CAL.	8573	11 20	2 14 50.4	1 48 48	17 18				845033
35725	PUEBLA, MEX.	0900	11 20	2 15 11.0	19 12 06	70 52				845043
35726	PUEBLA, MEX.	0900	11 20	2 15 25.9	19 15 54	72 57				845043
35742	N. CANTON, OHIO	8565	11 20	2 15 39.8	20 16 42	9 39				845013
35735	DAYTON, OHIO	8557	11 20	2 16 03.8			262 41	32 11		845303
35727	PUEBLA, MEX.	0900	11 20	2 16 45.8	20 27 24	84 04				845043
11262	ORGAN PASS*BN, N.M.	9001	11 20	2 17 11.69	2 07 48	34 05				434013
35739	SACRAMENTO, CAL.	8517	11 20	4 15 09.4	22 01 36	38 38				641013
35740	SACRAMENTO, CAL.	8517	11 20	4 15 56.3	22 45 36	46 00				641013
11338	MAUI*BN, HAWAII	9012	11 20	6 13 30.39	2 59 00	86 24				434013
35972	MIZUSAWA, JAPAN	0267	11 20	8 01 00			161 00	20 36		845302
35971	HIGASHIMATSUYAMA, JAP	0210	11 20	8 06 06.3	1 32	14 24				845002
11332	JUPITER*BN, FLA.	9010	11 20	8 44 03.36	6 47 12	-5 33				434013
11333	JUPITER*BN, FLA.	9010	11 20	8 48 02.87	8 21 30	-26 29				434023
11334	JUPITER*BN, FLA.	9010	11 20	8 52 04.23	9 37 30	-39 22				434023
35671	BAGUIO CITY, PH.IS.	0504	11 20	9 54 29			249 19 48	32 12 36		845302
35672	BAGUIO CITY, PH.IS.	0504	11 20	9 58 01			312 24 00	40 15 00		845302
35987	MIZUSAWA, JAPAN	0267	11 20	9 59 00			234 54	10 12		845302
11804	TOKYO*BN, JAPAN	9005	11 20	9 59 53.90	19 22 24	-11 45				434013
35673	BAGUIO CITY, PH.IS.	0504	11 20	10 00 27			8 53 24	45 31 12		845302
35973	YOKKAICHI, JAPAN	0258	11 20	10 01 28	20 09	-2				845002
35744	HSINGCHU, TAIWAN	0505	11 20	10 02 20.0	0 27	43 48				845042

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35975	KANAYA MACHI, JAPAN	0220	11 20	10 02 30	22 20	32				845002
11805	TOKYO-BN, JAPAN	9005	11 20	10 03 24.10	20 35 30	10 48				434013
35985	KAGOSHIMA, JAPAN	0218	11 20	10 03 40			180 00	87 24		845002
35977	KAGOSHIMA, JAPAN	0218	11 20	10 03 25	0 42 30	47 00				845002
35986	HIGASHIMATSUYAMA, JAPAN	0210	11 20	10 06 49.2			0 00	82 12		845003
11806	TOKYO-BN, JAPAN	9005	11 20	10 07 26.40	0 09 24	49 16				434013
35974	KASHIWABARA, JAPAN	0222	11 20	10 08 47	2 50	49				845002
35976	MIYAZAKI, JAPAN	0230	11 20	10 09 01.8	3 54 00	48 12				845002
11263	ORGAN PASS, BN, N.M.	9001	11 20	10 42 27.70	6 42 54	-19 33				434013
11264	ORGAN PASS, BN, N.M.	9001	11 20	10 44 00.60	7 17 18	-26 21				434023
11265	ORGAN PASS, BN, N.M.	9001	11 20	10 49 03.10	8 54 54	-42 19				434023
35745	HSINGCHU, TAIWAN	0905	11 20	12 03 45.9	17 03 30	53 18				845002
35980	KAGOSHIMA, JAPAN	0218	11 20	12 03 56	19 32	29 16				845002
35746	TAIPEI, TAIWAN	0901	11 20	12 04 01.0	19 35	34 16				845002
35978	KASHIWABARA, JAPAN	0222	11 20	12 06 24	19 35	36				845002
35979	MIYAZAKI, JAPAN	0230	11 20	12 06 45.5	19 32 30	49 42				845002
11345	NAINI TAL, BN, INDIA	9006	11 20	13 55 50.11	19 15 24	6 47				434013
11346	NAINI TAL, BN, INDIA	9006	11 20	13 59 04.70	20 12 42	15 31				434013
11347	NAINI TAL, BN, INDIA	9006	11 20	14 01 26.68	20 46 12	28 39				434013
11349	SHIRAZ, BN, IRAN	9006	11 20	15 56 35.41	19 48 36	32 31				434013
11350	SHIRAZ, BN, IRAN	9006	11 20	15 58 15.76	20 11 40	53 37				434013
11351	SHIRAZ, BN, IRAN	9006	11 20	15 59 44.86	20 16 00	68 11				434013
35981	KAGOSHIMA, JAPAN	0218	11 20	16 35 32.5	2 52 30	-12 36				845002
54763	EL GULEA, ALG.	6411	11 20	17 45 30.3			209 48	22 54		845309
54764	EL GULEA, ALG.	6411	11 20	17 46 30.3			211 42	30 00		845309
54765	EL GULEA, ALG.	6411	11 20	17 47 30.3			212 30	36 34		845309
54766	EL GULEA, ALG.	6411	11 20	17 48 30.3			214 00	47 24		845309
54867	MEUDON, FR.	7115	11 20	17 49 03.80			206 27	7 03		845309
54767	EL GULEA, ALG.	6411	11 20	17 49 30.3			176 30	50 48		845309
54868	MEUDON, FR.	7115	11 20	17 50 00.40			182 15	10 13		845309
54768	EL GULEA, ALG.	6411	11 20	17 50 30.3			144 20	68 06		845309
54814	BESANCON, FR.	7127	11 20	17 50 32.75			148 22	14 05		845309
54815	BESANCON, FR.	7127	11 20	17 51 04.75			149 13	16 18		845309
54869	MEUDON, FR.	7115	11 20	17 51 13.10			175 13	14 19		845309
54769	EL GULEA, ALG.	6411	11 20	17 51 14.10			161 24	65 36		845309
54870	MEUDON, FR.	7115	11 20	17 51 04.70			170 31	17 10		845309
54816	BESANCON, FR.	7127	11 20	17 51 18.18			177 31	21 37		845309
54770	EL GULEA, ALG.	6411	11 20	17 51 30.3			76 46	26 16		845309
54871	MEUDON, FR.	7115	11 20	17 51 04.90			162 30	43 37		845309
54817	BESANCON, FR.	7127	11 20	17 51 19.74			170 31	20 34		845309
54872	MEUDON, FR.	7115	11 20	17 51 04.10			153 05	13 12		845309
54818	BESANCON, FR.	7127	11 20	17 51 15.77			160 12	20 44		845309
54873	MEUDON, FR.	7115	11 20	17 51 04.50			144 16	14 17		845309
54819	BESANCON, FR.	7127	11 20	17 51 15.53			153 26	17 20		845309
54874	MEUDON, FR.	7115	11 20	17 51 04.10			153 31	20 39		845309
54820	BESANCON, FR.	7127	11 20	17 51 15.15			157 37	31 37		845309
54747	BERLIN, GER.	0700	11 20	17 52 20.5			155 46	17 16		845309
54875	MEUDON, FR.	7115	11 20	17 52 04.70			154 37	18 14		845309
54821	BESANCON, FR.	7127	11 20	17 52 14.48			156 31	32 17		845309
54748	BERLIN, GER.	0700	11 20	17 52 55.1			156 31	30 34		845309
54876	MEUDON, FR.	7115	11 20	17 52 04.10			155 31	17 46		845309
54822	BESANCON, FR.	7127	11 20	17 52 08.51			156 31	31 37		845309
54823	BESANCON, FR.	7127	11 20	17 52 06.40			156 31	30 47		845309
54877	MEUDON, FR.	7115	11 20	17 52 06.60			156 31	32 37		845309
54749	BERLIN, GER.	0700	11 20	17 52 42.8			151 30	31 14		845309
55271	BRATISLAVA, CZE. H.	0705	11 20	17 54 41.4	1 15 15	13 46				845302
11291	TOKYO-BN, JAPAN	9005	11 20	18 33 24.70	6 11 42	-25 05				434023
35983	KAGOSHIMA, JAPAN	0218	11 20	18 34 18	7 51	-13 36				845002
35982	KONKO, JAPAN	0224	11 20	18 34 37.0	7 50 11	-24 54				845002
11292	TOKYO-BN, JAPAN	9005	11 20	18 35 15.80	6 12 42	-11 23				434013
54771	EL GULEA, ALG.	6411	11 20	18 35 04.10			208 10	12 54		845309
54878	MEUDON, FR.	7115	11 20	18 35 37.75			212 49	15 16		845309
54824	BESANCON, FR.	7127	11 20	18 35 37.75			219 34	16 37		845309
54772	EL GULEA, ALG.	6411	11 20	18 35 04.10			272 36	17 16		845309
54825	BESANCON, FR.	7127	11 20	18 35 08.14			239 16	10 39		845309
54879	MEUDON, FR.	7115	11 20	18 35 18.17			239 31	12 48		845309
54773	EL GULEA, ALG.	6411	11 20	18 35 06.10			275 36	17 36		845309
54880	MEUDON, FR.	7115	11 20	18 35 04.10			227 11	17 02		845309
54826	BESANCON, FR.	7127	11 20	18 35 04.10			238 46	15 16		845309
54774	EL GULEA, ALG.	6411	11 20	18 35 04.10			286 35	10 00		845309
54881	MEUDON, FR.	7115	11 20	18 35 06.40			226 38	12 30		845309
54827	BESANCON, FR.	7127	11 20	18 35 06.66			237 17	12 11		845309
54775	EL GULEA, ALG.	6411	11 20	18 35 04.10			270 30	10 16		845309
54882	MEUDON, FR.	7115	11 20	18 35 11.55			221 27	14 14		845309
54828	BESANCON, FR.	7127	11 20	18 35 12.55			235 39	17 32		845309
54776	EL GULEA, ALG.	6411	11 20	18 35 04.10			307 18	14 30		845309
54829	BESANCON, FR.	7127	11 20	18 35 08.64			233 24	14 38		845309
54883	MEUDON, FR.	7115	11 20	18 35 04.60			218 48	12 49		845309
54777	EL GULEA, ALG.	6411	11 20	18 35 04.51			319 00	11 14		845309
54830	BESANCON, FR.	7127	11 20	18 35 10.39			229 33	11 16		845309
54884	MEUDON, FR.	7115	11 20	18 35 11.70			210 41	15 03		845309
54778	EL GULEA, ALG.	6411	11 20	18 35 06.10			337 36	12 00		845309
54885	MEUDON, FR.	7115	11 20	18 35 05.13			200 24	12 10		845309
54831	BESANCON, FR.	7127	11 20	18 35 08.35			223 27	11 35		845309
35674	BAGUIO CITY, PH. IS.	0504	11 20	20 31 07.8			270 30 36	11 04 48		845002
35984	KAGOSHIMA, JAPAN	0218	11 20	20 33 47	7 17	-43 18				845002
35675	BAGUIO CITY, PH. IS.	0504	11 20	20 34 23.6			242 36 00	11 42 00		845002
35676	BAGUIO CITY, PH. IS.	0504	11 20	20 40 51.8			188 41 24	10 27 00		845002
11348	NAINI TAL, BN, INDIA	9006	11 20	22 28 18.99	5 11 30	-17 04				434013
11360	JUPITER, BN, FLA.	9010	11 20	23 38 16.95	18 14 18	-23 31				434023
11361	JUPITER, BN, FLA.	9010	11 20	23 40 39.45	18 56 06	-11 38				434013
35737	BILOXI, MISS.	0690	11 20	23 45 53			90	24 42		845302
11353	CURACAO, BN, N.W.I.	9009	11 20	23 46 01.22	18 19 06	70 41				434013
35750	CINCINNATI, OHIO	8555	11 20	23 46 52.5			139 06	47 42		845302
35753	COLUMBUS, OHIO	0051	11 20	23 47 21.7			128 40	47 31		845303

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35755	ROCHESTER, N.Y.	8564	11 20	23 48 02.2	23 19 12	0 33				845014
11362	JUPITER'BN, FLA.	9010	11 20	23 49 50.93	2 59 54	54 51				845013
35743	N. CANTON, OHIO	8565	11 20	23 50 20.9	1 45 05	18 50				845013
35754	COLUMBUS, OHIO	0051	11 20	23 51 35.8			82 57	31 42		845003
35756	CINCINNATI, OHIO	0050	11 21	0 16 20.0			141 00	55 56		845002
11352	SHIRAZ'BN, IRAN	9008	11 21	0 27 44.94	6 27 54	-25 09				434023
35758	SACRAMENTO, CAL.	8590	11 21	1 43 16.5	23 49 36	-17 36				845012
35759	SACRAMENTO, CAL.	8517	11 21	1 42 26.7	23 37 06	-9 39				641013
35762	SAN JOSE, CAL.	8573	11 21	1 45 41.9	1 48 48	13 48				845032
11363	JUPITER'BN, FLA.	9010	11 21	1 45 56.05	18 43 18	31 46				434013
11339	ORGAN PASS'BN, N.M.	9001	11 21	1 46 29.05	0 37 00	45 57				434013
35765	PUEBLA, MEX.	0930	11 21	1 47 08.9	21 16 00	83 27				845043
11340	ORGAN PASS'BN, N.M.	9001	11 21	1 47 23.52	1 40 00	48 18				434013
35766	PUEBLA, MEX.	0900	11 21	1 48 38.8	2 30 00	85 17				845042
11364	JUPITER'BN, FLA.	9010	11 21	1 48 51.47	19 02 36	54 59				434013
35768	SAN DIEGO, CAL.	0133	11 21	1 49 30.4	3 47	39 24				845012
11341	ORGAN PASS'BN, N.M.	9001	11 21	1 49 44.97	3 40 36	46 44				434013
35763	SAN JOSE, CAL.	8573	11 21	1 50 09.2	3 44 58	23 38				845002
11350	JUPITER'BN, FLA.	9010	11 21	1 50 25.83	19 16 30	68 59				434013
35757	CINCINNATI, OHIO	0050	11 21	2 17 32.0			274 12	45 00		845002
11342	ORGAN PASS'BN, N.M.	9001	11 21	3 46 01.36	19 26 12	37 21				434013
11343	ORGAN PASS'BN, N.M.	9001	11 21	3 46 49.39	19 25 48	44 04				434013
35760	SACRAMENTO, CAL.	8517	11 21	3 47 03.6			0 00	80 07		641014
11344	ORGAN PASS'BN, N.M.	9001	11 21	3 47 37.40	19 47 24	51 21				434013
35761	SACRAMENTO, CAL.	8517	11 21	3 47 39.2	0 24 24	51 18				641013
35764	SAN JOSE, CAL.	8573	11 21	3 47 40.7	0 38 06	56 17				845002
35767	PUEBLA, MEX.	0930	11 21	3 48 03.0	18 46 00	56 55				845043
35769	DENVER, COLL.	8592	11 21	3 48 07.8			286 30	45 30		845003
11365	MAUI'BN, HAWAII	9012	11 21	5 41 37.11	19 39 24	74 01				434013
35770	PUEBLA, MEX.	0900	11 21	8 18 32.0	10 18 06	-6 00				845043
35771	PUEBLA, MEX.	0930	11 21	8 18 54.1	10 22 12	-7 25				845043
11354	CURACAO'BN, N.W.I.	9009	11 21	8 19 27.72	7 00 48	-2 05				434013
11355	CURACAO'BN, N.W.I.	9009	11 21	8 20 25.80	7 27 18	-5 22				434013
11356	CURACAO'BN, N.W.I.	9009	11 21	8 22 04.66	8 11 00	-17 20				434013
11357	TOKYO'BN, JAPAN	9005	11 21	9 33 45.30	10 29 36	-4 54				434013
35988	MITAKA, JAPAN	0229	11 21	9 33 56.5			234 36	48 30		845002
35996	MIZUSAWA, JAPAN	0267	11 21	9 34 00			224 54	38 30		845002
35992	KONKO, JAPAN	0224	11 21	9 34 39.2	12 24 30	19 36				845002
35989	MITAKA, JAPAN	0229	11 21	9 35 30.1			235 12	69 24		845002
35993	KASHIWABARA, JAPAN	0222	11 21	9 35 32	22 45	29				845002
35995	HIGASHIMATSUYAMA, JAP	0210	11 21	9 36 51.0			180 00	88 30		845003
35991	MUSASHINO, JAPAN	0233	11 21	9 36 56.9			270 00	87 30		845002
11358	TOKYO'BN, JAPAN	9005	11 21	9 37 37.30	23 48 24	42 09				434013
35994	TAKADA, JAPAN	0250	11 21	9 38 15	0 51	40				845002
35990	MITAKA, JAPAN	0229	11 21	9 39 45.8			54 18	50 06		845002
11359	TOKYO'BN, JAPAN	9005	11 21	9 40 18.50	3 52 41	47 46				434013
35772	PUEBLA, MEX.	0900	11 21	10 22 53.2	9 23 06	-43 46				845043
36473	BAGUIO CITY, PH.IS.	0504	11 21	11 28 23.5			290 39 00	8 36		845002
35773	QUEZON CITY, PH.IS.	0500	11 21	11 30 24.9			306	14		845002
35781	HSINGCHU, TAIWAN	0505	11 21	11 31 00.6	18 26 00	24 36				845042
35784	PASAY CITY, PH.IS.	0501	11 21	11 31 34			319	14		845002
35785	PASAY CITY, PH.IS.	0501	11 21	11 32 14			135	14		845002
35774	QUEZON CITY, PH.IS.	0500	11 21	11 32 27			321	14 30		845002
36016	BAGUIO CITY, PH.IS.	0504	11 21	11 32 50.5			322 46 12	16 53 24		845002
35776	TAIPEI, TAIWAN	0502	11 21	11 32 54.6	18 44	39 30				845042
35786	PASAY CITY, PH.IS.	0501	11 21	11 33 05			327	14		845002
35782	HSINGCHU, TAIWAN	0505	11 21	11 34 25.0	18 59 00	55 36				845042
35775	QUEZON CITY, PH.IS.	0500	11 21	11 34 38			338	15 30		845002
35997	KASHIWABARA, JAPAN	0222	11 21	11 37 38	19 55	44				845002
36017	BAGUIO CITY, PH.IS.	0504	11 21	11 37 50.5			0 28 12	13 54 00		845002
35777	TAIPEI, TAIWAN	0502	11 21	11 38 45.0	4 15	84 12				845042
11366	MAUI'BN, HAWAII	9012	11 21	14 10 02.45	5 53 06	-5 42				434013
11374	SHIRAZ'BN, IRAN	9008	11 21	15 26 50.74	19 42 12	27 25				434013
11375	SHIRAZ'BN, IRAN	9008	11 21	15 28 48.28	21 00 06	50 58				434013
11376	SHIRAZ'BN, IRAN	9008	11 21	15 30 43.53	23 48 48	66 52				434013
55204	BESANCON, FR.	2727	11 21	17 20 40.31			185 42	10 32		834309
55205	BESANCON, FR.	2727	11 21	17 21 06.59			183 31	12 07		834309
55206	BESANCON, FR.	2727	11 21	17 22 18.09			176 31	16 29		834309
55207	BESANCON, FR.	2727	11 21	17 23 02.27			171 20	19 12		834309
55208	BESANCON, FR.	2727	11 21	17 24 07.05			162 32	22 55		834309
55209	BESANCON, FR.	2727	11 21	17 25 11.85			152 16	25 55		834309
55210	BESANCON, FR.	2727	11 21	17 26 14.96			141 01	27 50		834309
55211	BESANCON, FR.	2727	11 21	17 27 46.89			124 18	28 11		834309
55212	BESANCON, FR.	2727	11 21	17 28 25.71			117 40	27 27		834309
55213	BESANCON, FR.	2727	11 21	17 29 14.73			109 51	26 00		834309
55214	BESANCON, FR.	2727	11 21	17 30 19.71			100 56	23 22		834309
55215	BESANCON, FR.	2727	11 21	17 31 00.09			96 07	21 29		834309
55216	BESANCON, FR.	2727	11 21	19 24 03.17			231 33	23 25		834309
55217	BESANCON, FR.	2727	11 21	19 25 16.97			228 16	31 46		834309
55218	BESANCON, FR.	2727	11 21	19 26 12.17			224 28	39 13		834309
55219	BESANCON, FR.	2727	11 21	19 27 18.53			217 05	49 26		834309
55220	BESANCON, FR.	2727	11 21	19 28 02.72			208 40	56 42		834309
11383	JUPITER'BN, FLA.	9010	11 21	23 12 25.41	19 28 30	-7 19				434013
11384	JUPITER'BN, FLA.	9010	11 21	23 13 50.75	20 18 18	6 58				434013
35787	COLUMBUS, OHIO	0051	11 21	23 14 26.9			180 00	28 00		845003
35790	TERRE HAUTE, IND.	8127	11 21	23 14 38.4			163 30	28 55		845003
11377	CURACAO'BN, N.W.I.	9009	11 21	23 14 52.20	17 48 54	50 17				434013
11378	CURACAO'BN, N.W.I.	9009	11 21	23 16 09.03	18 03 18	61 37				434013
11379	CURACAO'BN, N.W.I.	9009	11 21	23 16 44.40	18 09 54	62 35				434013
35788	COLUMBUS, OHIO	0051	11 21	23 18 00.1			133 00	41 30		845003
35792	N. CANTON, OHIO	8565	11 21	23 23 07.8	2 38 56	29 11				845013
35789	COLUMBUS, OHIO	0051	11 21	23 23 35.1			76 52 30	21 16		845003
11385	JUPITER'BN, FLA.	9010	11 21	23 24 28.76	4 40 00	42 40				434013
11367	ORGAN PASS'BN, N.M.	9001	11 22	1 09 58.60	19 14 00	-20 24				434013

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35794	PUEBLA, MEX.	0900	11 22	1 10 17.2	17 48 54	15 28				845043
35795	PUEBLA, MEX.	0900	11 22	1 10 28.1	17 54 42	18 39				845043
35797	CHINA LAKE, CAL.	8588	11 22	1 13 45.9			129 41 24	41 29 14		845043
11368	ORGAN PASS, BN, N.M.	9001	11 22	1 15 29.10	23 03 48	29 41				434013
35800	ST. PETERSBURG, FLA.	0121	11 22	1 17 00	18 40	40 02				845002
35791	TERRE HAUTE, IND.	8127	11 22	1 17 23.2			250 15	45 30		845043
35802	DAYTON, OHIO	8557	11 22	1 18 10.0			257 46	47 06		845043
11386	JUPITER, BN, FLA.	9010	11 22	1 18 32.76	18 45 30	49 03				434013
35803	STATE COLLEGE, PA.	8594	11 22	1 19 54.3			269 33	46 06		845043
35804	NEW ORLEANS, LA.	0030	11 22	1 20 02			0 00	45 00		845007
55710	STATE COLLEGE, PA.	5094	11 22	1 20 20	20 58	50 18				637019
11369	ORGAN PASS, BN, N.M.	9001	11 22	1 20 41.60	23 38 12	41 48				434013
35793	N. CANTON, OHIO	8565	11 22	1 21 12.6	22 10 40	41 36				845034
11387	JUPITER, BN, FLA.	9010	11 22	1 21 32.17	18 42 34	74 31				434013
35801	ST. PETERSBURG, FLA.	0121	11 22	1 22 16	19 58	86 10				845002
11388	JUPITER, BN, FLA.	9010	11 22	1 22 34.60	21 20 00	65 32				434013
35805	DAYTON, OHIO	8557	11 22	1 22 37.6			250 26	45 36		845043
35806	N. CANTON, OHIO	8591	11 22	1 23 12	23 01 46	50 02				845042
11370	ORGAN PASS, BN, N.M.	9001	11 22	1 23 41.60	17 17 14	38 59				434013
35811	SACRAMENTO, CAL.	8517	11 22	1 23 02.2			0 00	47 10		845044
35796	PUEBLA, MEX.	0900	11 22	1 23 02.4	18 03 30	48 12				845043
35798	CHINA LAKE, CAL.	8588	11 22	1 23 28.9			334 03 36	46 34 30		845043
11371	ORGAN PASS, BN, N.M.	9001	11 22	1 23 58.2	19 17 12	50 50				434013
35812	SAN JOSE, CAL.	8573	11 22	1 23 57.3	19 54 37	52 39				845043
11372	ORGAN PASS, BN, N.M.	9001	11 22	1 23 52.60	20 43 12	70 37				434013
35713	WALNUT CREEK, CAL.	8535	11 22	1 23 55.1	19 09 10	38 45				845004
35799	CHINA LAKE, CAL.	8588	11 22	1 23 56.2			300 00 24	45 12 00		845043
11380	CURACAO, BN, N.M.	9009	11 22	1 23 58.4	7 43 12	3 35				434013
11381	CURACAO, BN, N.M.	9009	11 22	1 23 57.4	6 07 16	- 6 17				434013
11382	CURACAO, BN, N.M.	9009	11 22	1 23 53.0	6 49 36	-10 18				434013
11373	AREQUIPA, BN, PERU	9007	11 22	1 23 56.4	12 10 44	24 08				434013
11389	VILLA DOLORES, BN, ARG	9011	11 22	1 23 59.80	19 52 12	15 19				434013
11390	VILLA DOLORES, BN, ARG	9011	11 22	1 23 58.1	19 48 10	- 4 13				434013
35798	YAGOSHIMA, JAPAN	0218	11 22	1 23 58.4	19 56 10	15 19				845001
35778	TAIPEI, TAIWAN	0901	11 22	1 23 58.8	19 56 10	15 19				845044
35779	TAIPEI, TAIWAN	0901	11 22	1 23 58.8	19 56 10	15 19				845044
35783	HSINCHU, TAIWAN	0903	11 22	1 23 58.8	19 56 10	15 19				845044
35780	TAIPEI, TAIWAN	0901	11 22	1 23 58.8	19 56 10	15 19				845044
35813	QUEZON CITY, PHILS.	0906	11 22	1 23 58.8	19 56 10	15 19				845044
35814	QUEZON CITY, PHILS.	0906	11 22	1 23 58.8	19 56 10	15 19				845044
35815	QUEZON CITY, PHILS.	0906	11 22	1 23 58.8	19 56 10	15 19				845044
11391	NAINI, TAIWAN, INDIA	9036	11 22	1 23 57.1	4 44 00	49 57				434013
11392	SHIRAZ, BN, IRAN	9008	11 22	1 23 59.1	12 13 18	49 31				434013
11393	SHIRAZ, BN, IRAN	9008	11 22	1 23 59.1	12 13 18	49 31				434013
11394	SHIRAZ, BN, IRAN	9008	11 22	1 23 59.1	12 13 18	49 31				434013
55318	SPETSAIL, UR.	8078	11 22	1 23 59.1	12 13 18	49 31				845049
55319	POTSUAM	2719	11 22	1 23 59.1	12 13 18	49 31				845049
55320	POTSUAM	2719	11 22	1 23 59.1	12 13 18	49 31				845049
55316	BERLIN, GERM.	0700	11 22	1 23 59.1	12 13 18	49 31				845049
55301	POTSUAM	2719	11 22	1 23 59.1	12 13 18	49 31				845049
55319	SPETSAIL, UR.	8078	11 22	1 23 59.1	12 13 18	49 31				845049
55317	BERLIN, GERM.	0700	11 22	1 23 59.1	12 13 18	49 31				845049
55322	POTSUAM	2719	11 22	1 23 59.1	12 13 18	49 31				845049
55323	POTSUAM	2719	11 22	1 23 59.1	12 13 18	49 31				845049
55321	SPETSAIL, UR.	8078	11 22	1 23 59.1	12 13 18	49 31				845049
55322	SPETSAIL, UR.	8078	11 22	1 23 59.1	12 13 18	49 31				845049
55318	BERLIN, GERM.	0700	11 22	1 23 59.1	12 13 18	49 31				845049
55324	POTSUAM	2719	11 22	1 23 59.1	12 13 18	49 31				845049
55319	BERLIN, GERM.	0700	11 22	1 23 59.1	12 13 18	49 31				845049
55323	SPETSAIL, UR.	8078	11 22	1 23 59.1	12 13 18	49 31				845049
55325	POTSUAM	2719	11 22	1 23 59.1	12 13 18	49 31				845049
55320	BERLIN, GERM.	0700	11 22	1 23 59.1	12 13 18	49 31				845049
11402	CURACAO, BN, N.M.	9009	11 22	1 23 59.1	12 13 18	49 31				434013
11404	CURACAO, BN, N.M.	9009	11 22	1 23 59.1	12 13 18	49 31				434013
11403	CURACAO, BN, N.M.	9009	11 22	1 23 59.1	12 13 18	49 31				434013
35821	ROCHESTER, N.Y.	8564	11 22	1 23 59.1	12 13 18	49 31				845043
11395	ORGAN PASS, BN, N.M.	9001	11 23	0 48 46.50	19 51 30	-12 14				434013
35881	SAN ANTONIO, TEX.	0096	11 23	0 45 04.2	19 04 54	26 49				845042
35822	SAN ANTONIO, TEX.	0096	11 23	0 45 04.2	19 04 54	26 49				845042
11396	ORGAN PASS, BN, N.M.	9001	11 23	0 45 47.30	19 54 42	19 56				434013
35882	SAN ANTONIO, TEX.	0096	11 23	0 45 51.4	19 06 12	36 31				845042
11411	JUPITER, BN, FLA.	9010	11 23	0 47 14.70	18 41 48	17 54				434013
11412	JUPITER, BN, FLA.	9010	11 23	0 50 59.73	19 13 12	70 54				434013
56125	MADISON, WISC.	5078	11 23	0 51 29.0	0 22 10	30 36				637007
35818	MILWAUKEE, WISC.	0074	11 23	0 52 28.3	0 34	34 34				641014
11397	ORGAN PASS, BN, N.M.	9001	11 23	0 53 11.50	4 09 54	35 47				434013
11413	JUPITER, BN, FLA.	9010	11 23	0 53 57.14	5 03 00	80 54				434013
35823	PUEBLA, MEX.	0900	11 23	2 46 05.1	17 51 00	41 53				845043
11398	ORGAN PASS, BN, N.M.	9001	11 23	2 46 09.56	18 55 41	30 42				434013
35824	PUEBLA, MEX.	0900	11 23	2 47 30.0	17 50 54	50 45				845043
35828	CHINA LAKE, CAL.	0098	11 23	2 47 32.6			111 56 24	72 42 30		845043
11399	ORGAN PASS, BN, N.M.	9001	11 23	2 48 20.83	19 56 48	53 49				434013
35829	MILWAUKEE, WISC.	0074	11 23	2 50 15.1			275 36	46 30		845044
58126	MADISON, WISC.	5078	11 23	2 52 19.8	20 43 12	30 48				637007
11400	ORGAN PASS, BN, N.M.	9001	11 23	2 51 24.76	0 19 30	79 47				434013
35830	MILWAUKEE, WISC.	0074	11 23	2 51 56.8			461 30	41 06		845044
35714	WALNUT CREEK, CAL.	8535	11 23	4 49 37.0	10 32 10	52 32				845043
11405	CURACAO, BN, N.M.	9009	11 23	7 21 30.61	8 07 24	- 2 13				434013
11406	CURACAO, BN, N.M.	9009	11 23	7 23 19.62	8 48 36	-14 14				434013
11407	CURACAO, BN, N.M.	9009	11 23	7 26 33.79	9 54 00	-19 30				434013
11401	AREQUIPA, BN, PERU	9007	11 23	7 26 51.72	10 05 24	28 11				434013
11431	VILLA DOLORES, BN, ARG	9011	11 23	7 27 41.52	9 10 18	40 54				434013
11432	VILLA DOLORES, BN, ARG	9011	11 23	7 38 18.92	12 10 34	- 1 01				434013

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36001	KANAYA MACHI, JAPAN	0220	11 23	8 39 26.8	2 06	35 18				845002
35999	ASAHIKAWA, JAPAN	0201	11 23	8 42 12.4	1 56 00	22 42				845002
36000	YOKKAICHI, JAPAN	0258	11 23	8 43 37	4 05	35				845002
11410	CURACAO'BN, N.W.I.	9009	11 23	9 19 26.99	4 18 06	-3 27				434013
11414	JUPITER'BN, FLA.	9010	11 23	9 19 37.10	5 41 18	-30 25				434023
35825	PUEBLA, MEX.	0900	11 23	9 20 33.1	8 33 24	-26 43				845043
11415	JUPITER'BN, FLA.	9010	11 23	9 21 02.57	6 07 36	-36 33				434023
35826	PUEBLA, MEX.	0900	11 23	9 24 11.8	9 44 12	-39 05				845043
11416	JUPITER'BN, FLA.	9010	11 23	9 24 16.38	7 09 12	-48 31				434023
11408	CURACAO'BN, N.W.I.	9009	11 23	9 25 05.01	5 38 30	-32 59				434023
11409	CURACAO'BN, N.W.I.	9009	11 23	9 25 08.99	5 39 36	-33 22				434023
36019	BAGUIO CITY, PH.IS.	0504	11 23	10 31 55.8			208 57 00	20 00 00		845302
36020	BAGUIO CITY, PH.IS.	0504	11 23	10 34 06.8			330 31 12	21 48 00		845302
35831	QUEZON CITY, PH.IS.	0500	11 23	10 36 09			349	18		845302
35832	QUEZON CITY, PH.IS.	0500	11 23	10 37 10			356	16		845302
36021	BAGUIO CITY, PH.IS.	0504	11 23	10 37 37.7			0 25 48	16 43 14		845302
35833	QUEZON CITY, PH.IS.	0500	11 23	10 38 08			2	14		845302
36003	KAGOSHIMA, JAPAN	0218	11 23	10 39 26.5	21 05	71 30				845002
36002	KANAYA MACHI, JAPAN	0220	11 23	10 40 45.0	21 30	70 30				845002
35827	PUEBLA, MEX.	0900	11 23	11 23 07.2	5 57 36	-37 50				845043
11420	MAINI TAL'BN, INDIA	9006	11 23	14 34 05.08	18 41 12	53 29				434013
11421	MAINI TAL'BN, INDIA	9006	11 23	14 36 39.49	19 28 00	78 23				434013
11422	MAINI TAL'BN, INDIA	9006	11 23	14 37 37.75	21 51 00	86 43				434013
55105	EL GULEA, ALG.	6411	11 23	18 21 00.0			452 42	16 18		845309
55106	EL GULEA, ALG.	6411	11 23	18 22 00.0			256 06	21 42		845309
55117	MEUDON, FR.	2715	11 23	18 22 13.2			217 15	10 15		637109
55107	EL GULEA, ALG.	6411	11 23	18 23 00.0			261 12	20 10		845309
55118	MEUDON, FR.	2715	11 23	18 23 03.5			214 51	15 48		637109
55108	EL GULEA, ALG.	6411	11 23	18 24 00.0			268 36	35 40		845309
55119	MEUDON, FR.	2715	11 23	18 24 05.0			211 08	18 58		637109
55109	EL GULEA, ALG.	6411	11 23	18 25 00.0			279 12	45 24		845309
55120	MEUDON, FR.	2715	11 23	18 25 15.6			205 40	25 33		637109
55110	EL GULEA, ALG.	6411	11 23	18 26 00.0			245 30	50 42		845309
55121	MEUDON, FR.	2715	11 23	18 26 01.3			200 19	30 19		637109
55111	EL GULEA, ALG.	6411	11 23	18 27 00.0			316 05	54 30		845309
55122	MEUDON, FR.	2715	11 23	18 27 05.1			170 48	37 14		637109
55112	EL GULEA, ALG.	6411	11 23	18 28 00.0			340 24	55 42		845309
55123	MEUDON, FR.	2715	11 23	18 28 04.8			176 19	44 17		637109
55113	EL GULEA, ALG.	6411	11 23	18 29 00.0			3 36	40 40		845309
55124	MEUDON, FR.	2715	11 23	18 29 16.5			158 04	48 09		637109
55114	EL GULEA, ALG.	6411	11 23	18 30 00.0			15 54	42 00		845309
55125	MEUDON, FR.	2715	11 23	18 30 09.7			145 39	46 55		637109
55115	EL GULEA, ALG.	6411	11 23	18 31 00.0			24 48	34 24		845309
55126	MEUDON, FR.	2715	11 23	18 31 01.2			140 14	45 37		637109
55116	EL GULEA, ALG.	6411	11 23	18 32 00.0			19 30	29 30		845309
55127	MEUDON, FR.	2715	11 23	18 32 09.0			106 56	40 38		637109
36883	SAN ANTONIO, TEX.	0096	11 24	0 14 25.3	17 44 36	10 15				845042
35834	MILWAUKEE, WISC.	0074	11 24	0 15 16.3			221 30	19 30		845304
11425	JUPITER'BN, FLA.	9010	11 24	0 15 31.54	17 51 42	17 40				434013
36884	SAN ANTONIO, TEX.	0096	11 24	0 16 18.2	17 45 41	34 39				845042
35837	TERRE HAUTE, IND.	8127	11 24	0 16 49.4			234	35 42		845303
35839	PUEBLA, MEX.	0900	11 24	0 17 09.2	22 32 30	76 00				845043
35843	ST. PETERSBURG, FLA.	0121	11 24	0 17 47	16 31	35 32				845042
35844	FORT WORTH, TEX.	0139	11 24	0 18 03.2	12 53 30	38 00				845013
36885	SAN ANTONIO, TEX.	0096	11 24	0 18 09.6	13 40 54	51 43				845042
35835	MILWAUKEE, WISC.	0074	11 24	0 18 43.0			206 00	47 24		845304
35846	N. CANTON, OHIO	8526	11 24	0 19 39	22 30 30	11 37				845043
35807	N. CANTON, OHIO	8559	11 24	0 19 38.6	20 43 40	15 57				845033
11426	JUPITER'BN, FLA.	9010	11 24	0 20 25.05	16 5 06	63 41				434013
35836	MILWAUKEE, WISC.	0074	11 24	0 20 37.1			115 30	66 40		845304
35845	N. CANTON, OHIO	8565	11 24	0 21 03.2	11 45 32	48 12				845013
35847	CINCINNATI, OHIO	0050	11 24	0 21 40.0			322	66		845302
35849	STATE COLLEGE, PA.	8594	11 24	0 21 34.7			204 24	66 24		845303
35850	ST. LOUIS, MO.	0140	11 24	0 21 50.9	1 04 36	40 32				845012
35838	TERRE HAUTE, IND.	8127	11 24	0 21 01.8			75 30	73 35		845303
55711	STATE COLLEGE, PA.	5094	11 24	0 22 09.0	20 55	38 12				637019
11427	JUPITER'BN, FLA.	9010	11 24	0 23 36.78	3 44 48	66 01				434013
35808	N. CANTON, OHIO	8544	11 24	0 23 57.2	3 22 30	44 22				845012
35853	W. PALM BEACH, FLA.	0016	11 24	1 17 41			0 00	51 00		845302
35854	SAN DIEGO, CAL.	0133	11 24	1 14 30.6	19 46	20 00				845012
35856	SACRAMENTO, CAL.	8517	11 24	1 16 34.9			160 00	73 56		845304
35857	DENVER, COLO.	8592	11 24	1 17 02.1			259 15 00	55 00		845303
35855	SAN DIEGO, CAL.	0133	11 24	1 17 10.0	20 17 30	39 42				845012
35859	ROCHESTER, N.Y.	8564	11 24	1 19 33.6	19 52 42	11 33				845014
35840	PUEBLA, MEX.	0900	11 24	1 20 05.1	17 14 42	67 41				845043
35848	CINCINNATI, OHIO	0050	11 24	1 20 27.8			285	42		845302
35860	ROCHESTER, N.Y.	8564	11 24	1 21 21.4	19 55 36	19 24				845014
35861	CHICAGO, ILL.	0020	11 24	1 23 15			290 30	52 00		845302
35809	N. CANTON, OHIO	8572	11 24	1 23 37.9	20 32	42 12				845042
35858	DENVER, COLO.	8592	11 24	1 23 38.7			44 00	53 15 00		845303
35810	N. CANTON, OHIO	8559	11 24	1 23 42.5	20 32 18	41 57				845033
35862	PHOENIX, ARIZ.	8576	11 24	1 19 07.6	18 59	39 54				845033
11443	AREQUIPA'BN, PERU	9007	11 24	6 54 51.19	7 27 12	37 08				434013
36004	HIGASHIMATSUYAMA, JAP	0210	11 24	8 05 15	21 09	-10				845002
35841	PUEBLA, MEX.	0900	11 24	8 53 25.7	9 28 24	-33 15				845043
35842	PUEBLA, MEX.	0900	11 24	8 54 10.5	9 40 30	-35 18				845043
11423	CURACAO'BN, N.W.I.	9009	11 24	8 58 10.16	6 39 24	-46 57				434023
11444	AREQUIPA'BN, PERU	9007	11 24	9 00 37.02	8 08 42	-4 04				434013
35863	QUEZON CITY, PH.IS.	0500	11 24	9 59 49			293	14		845302
36022	BAGUIO CITY, PH.IS.	0504	11 24	10 02 16.4			310 19 12	13 25 48		845302
35869	TAIPEI, TAIWAN	0502	11 24	10 03 51.9	18 28 30	38 00				845042
35864	QUEZON CITY, PH.IS.	0500	11 24	10 04 22			334	20		845302
36023	BAGUIO CITY, PH.IS.	0504	11 24	10 06 08.5			351 16 48	21 34 14		845302
35865	QUEZON CITY, PH.IS.	0500	11 24	10 07 17.5			358 30	15 30		845302

OBS NO	STATION	STA NO	DATE	TIME	R. A.	DECL.	AZIMUTH	ALTITUDE	RANGE	INDEX
35870	TAIPEI, TAIWAN	0502	11 24	10 08 00.5	23 55	78 18				845042
36005	MITAKA, JAPAN	0229	11 24	10 08 50.6			291 06	39 12		845002
36008	YOKKAICHI, JAPAN	0258	11 24	10 09 04	19 44	45				845002
36006	MITAKA, JAPAN	0229	11 24	10 09 53.5			304 36	46 18		845002
36009	KANAYA MACHI, JAPAN	0220	11 24	10 10 05.0	20 39	62 12				845002
11418	TOKYO*BN, JAPAN	9005	11 24	10 11 00.20	20 35 18	60 01				434013
36024	BAGUIO CITY, PH.15.	0504	11 24	10 11 45.3			23 14 24	6 42 36		845002
36007	MITAKA, JAPAN	0229	11 24	10 11 49.9			342 24	52 54		845002
36010	YOKKAICHI, JAPAN	0258	11 24	12 11 43	19 32	45				845002
11419	NAINI TAL*BN, INDIA	9006	11 24	14 06 22.62	19 04 06	74 04				434013
11460	MAUI*BN, HAWAII	9012	11 24	14 50 24.85	6 25 48	-52 04				434023
55324	SPETSAL, GR.	8078	11 24	15 54 11.9			29 21 00	29 54 00		834309
35871	BERLIN, GER.	0700	11 24	15 58 15.6			146 12	16 24		845002
55325	SPETSAL, GR.	8078	11 24	15 58 29.9			314 47 24	63 50 24		834309
35872	BERLIN, GER.	0700	11 24	15 59 18.3			137 30	17 36		845002
35873	BERLIN, GER.	0700	11 24	16 00 16.8			129 12	18 06		845002
55326	SPETSAL, GR.	8078	11 24	16 06 15.9			241 47 24	14 27 36		834309
55128	MEUDON, FR.	2715	11 24	17 52 41.7			165 12	41 20		637109
55129	MEUDON, FR.	2715	11 24	17 53 39.1			149 26	43 42		637109
55130	MEUDON, FR.	2715	11 24	17 54 09.9			140 32	43 55		637109
55327	SPETSAL, GR.	8078	11 24	17 54 52.9			85 14 24	10 51 36		834309
55131	MEUDON, FR.	2715	11 24	17 55 06.2			125 29	42 20		637109
55132	MEUDON, FR.	2715	11 24	17 56 05.1			112 06	38 42		637109
55221	BESANCON, FR.	2727	11 24	17 56 36.04			205 11	32 17		834309
55222	BESANCON, FR.	2727	11 24	17 57 01.71			201 52	35 26		834309
55223	BESANCON, FR.	2727	11 24	17 58 12.11			189 11	44 19		834309
55224	BESANCON, FR.	2727	11 24	17 59 28.04			167 02	52 03		834309
55328	SPETSAL, GR.	8078	11 24	18 00 18.9			115 01 12	44 15 54		834309
55225	BESANCON, FR.	2727	11 24	18 00 28.27			146 08	34 04		834309
55226	BESANCON, FR.	2727	11 24	18 01 01.59			131 39	34 01		834309
55227	BESANCON, FR.	2727	11 24	18 02 41.85			118 06	50 14		834309
55228	BESANCON, FR.	2727	11 24	18 03 03.53			117 36	48 17		834309
55329	SPETSAL, GR.	8078	11 24	18 03 03.9			169 09 36	56 03 00		834309
11417	WOOMERA*BN, AUSTR.	9003	11 24	18 52 55.56	10 28 30	2 59				434013
35874	TOWNSVILLE, AUSTR.	8578	11 24	18 57 24.5			143 46	36 09		845002
35875	TOWNSVILLE, AUSTR.	8578	11 24	18 58 23.9			141 32	29 47		845002
35866	QUEZON CITY, PH.15.	0500	11 24	20 37 43			248 30	16 30		845002
35867	QUEZON CITY, PH.15.	0500	11 24	20 42 53			219 30	16 00		845002
35868	QUEZON CITY, PH.15.	0500	11 24	20 44 50			210	13 30		845002
35876	TERRE HAUTE, IND.	8127	11 24	23 21 53.1			90 30	66 10		845002
11428	JUPITER*BN, FLA.	9010	11 24	23 48 10.34	16 09 36	38 20				434013
35878	NEW ORLEANS, LA.	0030	11 24	23 49 15			0 00	65 00		845002
11430	JUPITER*BN, FLA.	9010	11 24	23 49 56.06	16 47 06	59 13				434013
35851	ST. LOUIS, MO.	0140	11 24	23 51 24.7	0 20 54	32 48				845012
35879	ROCHESTER, N.Y.	8564	11 24	23 54 11.6	0 12 42	37 25				845013
36687	STATE COLLEGE, PA.	8603	11 24	23 54 16.1	0 36 30	47 24				845032
11429	JUPITER*BN, FLA.	9010	11 24	23 57 21.26	5 38 56	56 44				434013
35880	SACRAMENTO, CAL.	8517	11 25	1 46 09.4			180 00	62 50		841304
55127	MADISON, WISC.	5076	11 25	1 51 15.6	20 12 30	25 36				637007
35877	TERRE HAUTE, IND.	8127	11 25	1 51 39.1			288 45	36 50		845003
35852	ST. LOUIS, MO.	0140	11 25	1 54 40.3	21 41 00	62 22				845012
35882	ROCHESTER, N.Y.	8585	11 25	1 54 49.3	20 55 30	41 42				845032
35881	SACRAMENTO, CAL.	8517	11 25	3 51 33.5			0 00	57 04		841304
11424	CURACAO*BN, N.W.I.	9009	11 25	8 45 51.02	5 58 36	-36 08				434023
35883	PUEBLA, MEX.	0900	11 25	10 45 23.3	7 08 42	-55 25				845043
35884	PUEBLA, MEX.	0900	11 25	10 47 08.9	7 46 18	-57 54				845043
11459	MAUI*BN, HAWAII	9012	11 25	14 15 56.77	5 10 54	-32 48				434023
35885	TOWNSVILLE, AUSTR.	8578	11 25	18 21 22.4			30 14	66 57		845002
35886	TOWNSVILLE, AUSTR.	8578	11 25	18 21 24.6			36 13	67 47		845002
11433	WOOMERA*BN, AUSTR.	9003	11 25	18 22 18.34	10 09 54	8 10				434013
11436	SAN FERNANDO*BN, SP.	9004	11 25	19 29 52.00	21 11 24	64 39				434013
36025	QUEZON CITY, PH.15.	0500	11 25	20 45 07			203 30	16		845002
36026	QUEZON CITY, PH.15.	0500	11 25	20 46 37			196 30	13		845002
36027	QUEZON CITY, PH.15.	0500	11 25	20 48 09			190 00	10 30		845002
11451	JUPITER*BN, FLA.	9010	11 25	23 45 05.91	7 43 48	7 26				434013
35887	TERRE HAUTE, IND.	8127	11 25	23 49 21.2			180	62 30		845002
11452	JUPITER*BN, FLA.	9010	11 25	23 51 03.66	20 08 06	71 51				434013
35890	N. CANTON, OHIO	8544	11 25	23 22 05.6	22 51	28 40				845032
35893	MILWAUKEE, WISC.	0074	11 25	23 22 15.8			115 06	50 18		841304
35896	ROCHESTER, N.Y.	8564	11 25	23 23 09.2	22 57 30	26 52				845013
35894	MILWAUKEE, WISC.	0074	11 25	23 25 54.9			77 42	27 42		841304
35895	MILWAUKEE, WISC.	0074	11 25	23 28 12.4			70 12	11 54		841304
11453	JUPITER*BN, FLA.	9010	11 25	23 28 19.69	5 25 12	50 09				434013
35898	MILWAUKEE, WISC.	0074	11 26	1 17 05.1			257 48	11 18		841304
35901	DENVER, COLO.	8592	11 26	1 19 26.4			253 06	67 18		845003
35899	MILWAUKEE, WISC.	0074	11 26	1 21 24.7			266 30	41 12		841304
35888	TERRE HAUTE, IND.	8127	11 26	1 22 49.6			298	48 25		845003
11448	JUPITER*BN, FLA.	9010	11 26	1 22 49.71	17 47 30	54 20				434013
35903	FORT WORTH, TEX.	0139	11 26	1 22 52.6	22 49 00	79 33				845013
11449	JUPITER*BN, FLA.	9010	11 26	1 23 54.35	17 43 48	62 32				434013
35904	CHICAGO, ILL.	0020	11 26	1 24 02			302	66 30		845002
35907	NEW ORLEANS, LA.	0030	11 26	1 24 47			0 00	34 00		845002
35908	NEW ORLEANS, LA.	0031	11 26	1 24 53			0	30		845002
35897	ROCHESTER, N.Y.	8564	11 26	1 25 01.6	20 46 18	41 52				845013
35905	CHICAGO, ILL.	0020	11 26	1 25 10.2	23 40	60 00				845042
35906	CHICAGO, ILL.	0020	11 26	1 25 36.6	0 19	61 25				845042
35909	CINCINNATI, OHIO	0090	11 26	1 25 39.4			347 36	56 30		845002
35900	MILWAUKEE, WISC.	0074	11 26	1 25 52.6			25 30	72 18		841304
35889	TERRE HAUTE, IND.	8127	11 26	1 25 55.2			10	58 00		845003
11450	JUPITER*BN, FLA.	9010	11 26	1 26 07.07	16 49 30	79 54				434013
35891	N. CANTON, OHIO	8544	11 26	1 26 40.2	23 32	67 25				845032
35892	N. CANTON, OHIO	8559	11 26	1 26 47.1	23 49 50	67 43				845033
35902	DENVER, COLO.	8592	11 26	3 21 54.6			48 15 00	70 51 00		845003

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36028	PUEBLA, MEX.	0900	11 26	3 23 08.7	17 30 00	61 41				845043
35910	CINCINNATI, OHIO	0050	11 26	3 23 22.9			297 36	14 06		845302
36029	PUEBLA, MEX.	0900	11 26	3 24 12.8	17 14 12	61 40				845043
11447	CURACAO, BN, N.W.I.	9009	11 28	7 56 16.4	6 20 24	-38 16				434023
11445	AREQUIPA, BN, PERU	9007	11 26	8 00 43.6	8 42 00	1 04				434013
36247	KONKO, JAPAN	0224	11 26	9 10 21.0	22 28 00	61 48				845002
36248	YATSUSHIRO, JAPAN	0272	11 26	9 16 51			47 00	12 18		845302
36249	MIYAZAKI, JAPAN	0230	11 26	9 16 53.0	5 14 39	42 36				845002
36252	MIYAZAKI, JAPAN	0230	11 26	11 08 02.7	18 09 17	30 36				845002
36250	KANAYA MACHI, JAPAN	0220	11 26	11 10 22	18 32	36				845002
36253	KAGOSHIMA, JAPAN	0218	11 26	11 12 52.5	18 27	71 48				845002
36254	HIGASHIMATSUYAMA, JAP	0210	11 26	11 14 38.2	19 49	65 42				845002
36251	YATSUSHIRO, JAPAN	0272	11 26	11 14 46			0 00	32 42		845302
36255	MIYAZAKI, JAPAN	0230	11 26	11 12 10.2	19 19 12	39 12				845002
55275	SARATOV, USSR	1044	11 26	15 01 24.3	40 30	29 00				845009
55276	SARATOV, USSR	1044	11 26	15 06 51.8	1 00	28 18				845009
11439	NAINI TAL, BN, INDIA	9006	11 26	15 09 28.2	17 56 06	70 09				434013
55277	SARATOV, USSR	1044	11 26	15 09 46.0	79 00	19 42				845009
55133	MEUDON, FR.	2715	11 26	16 54 40.0			192 52	15 52		837109
55134	MEUDON, FR.	2715	11 26	16 55 01.6			191 04	17 12		837109
56041	POTS DAM, GER.	2729	11 26	16 55 51.6	20 08 54	-20 59				834049
55135	MEUDON, FR.	2715	11 26	16 56 04.9			183 42	11 02		837109
56042	POTS DAM, GER.	2729	11 26	16 57 00.7	20 37 24	-17 28				834049
55136	MEUDON, FR.	2715	11 26	16 57 11.9			173 34	17 08		837109
55137	MEUDON, FR.	2715	11 26	16 58 10.3			162 32	30 59		837109
56043	POTS DAM, GER.	2729	11 26	16 58 22.7	21 17 33	-12 33				834049
55138	MEUDON, FR.	2715	11 26	16 59 05.7			150 23	35 28		837109
55139	MEUDON, FR.	2715	11 26	17 00 16.1			133 59	34 13		837109
55272	RIAZAN, USSR	1042	11 26	17 00 48.2	57 12	16 00				845009
55140	MEUDON, FR.	2715	11 26	17 01 01.8			123 48	35 14		837109
55141	MEUDON, FR.	2715	11 26	17 02 11.5			110 11	30 38		837109
55273	RIAZAN, USSR	1042	11 26	17 03 59.6	41 30	34 36				845009
55142	MEUDON, FR.	2715	11 26	17 03 59.6			95 04	13 37		837109
35911	BERLIN, GER.	3700	11 26	17 04 34.8			124 18	36 12		845002
55143	MEUDON, FR.	2715	11 26	17 04 17.6			93 24	27 34		837109
35912	BERLIN, GER.	3700	11 26	17 05 03.6			113 24	32 48		845002
55144	MEUDON, FR.	2715	11 26	17 05 04.8			88 47	19 38		837109
35913	BERLIN, GER.	3700	11 26	17 06 11.6			104 16	26 00		845002
55145	MEUDON, FR.	2715	11 26	17 06 11.7			83 39	15 42		837109
55146	MEUDON, FR.	2715	11 26	17 07 11.7			90 34	12 57		837109
55274	RIAZAN, USSR	1042	11 26	17 07 29.3	49 24	53 24				845009
11434	WOMERA, BN, AUSTR.	9003	11 26	17 01 55.25	10 00 41	10 55				434013
36682	ADELAIDE, AUSTR.	8596	11 26	17 05 07.9			44 15	30		845002
36683	ADELAIDE, AUSTR.	8596	11 26	18 00 23.9			82 45	21 30		845002
36684	ADELAIDE, AUSTR.	8596	11 26	18 05 17.2			101 10	7 20		845002
35914	GLASGOW, SCOT.	9051	11 26	19 04 26.6			136 30	36 30		845002
35915	ROCHESTER, N.Y.	8564	11 26	19 04 09.0	0 04 09	27 37				845014
11456	JUPITER, BN, FLA.	9010	11 27	0 49 31.78	17 24 36	32 48				434013
55284	SPOKANE, WASH.	8142	11 27	0 50 35.1			129 56	34 00		845009
35916	DENVER, COLO.	8592	11 27	0 51 17.7			69 45 00	70 24		845003
35922	ROCHESTER, N.Y.	8564	11 27	0 52 06.0	19 19 24	19 24				845013
55285	SPOKANE, WASH.	8142	11 27	0 52 46.3			101 12	27 18		845009
11455	JUPITER, BN, FLA.	9010	11 27	0 53 01.47	17 27 00	57 56				434013
35917	ROANOK, VA.	0073	11 27	0 53 48	19 31 10	76 15				845002
35920	NEW ORLEANS, LA.	0035	11 27	0 54 22			0 00	36 00		845002
35921	ROCHESTER, N.Y.	8564	11 27	0 54 27.0	19 22 12	37 57				845013
35924	ROCHESTER, N.Y.	8585	11 27	0 54 57.0	19 46 39	43 50				845032
35925	NEW ORLEANS, LA.	0035	11 27	0 55 27			0	31 30		845002
35923	ROCHESTER, N.Y.	8564	11 27	0 56 37.7	19 36 48	56 43				845014
11456	JUPITER, BN, FLA.	9010	11 27	0 56 46.17	12 19 00	85 48				434013
35926	SAN JOSE, CAL.	8573	11 27	2 47 37.3	18 57 22	31 37				845002
35927	SAN JOSE, CAL.	8573	11 27	2 49 05.9	19 41 39	46 01				845002
55286	SPOKANE, WASH.	8142	11 27	2 49 47.5			236 12	44 48		845009
55279	SPOKANE, WASH.	8142	11 27	2 52 25.2			180	75 48 36		845009
11461	MAUI, BN, HAWAII	9012	11 27	4 44 51.76	16 11 24	75 48				434013
55287	SPOKANE, WASH.	8142	11 27	4 52 58.6			274 00	39 24		845009
11457	VILLA DOLORES, BN, ARG.	9011	11 27	7 28 24.97	6 57 00	17 50				434013
11446	AREQUIPA, BN, PERU	9007	11 27	7 30 19.80	8 46 48	5 14				434013
11458	VILLA DOLORES, BN, ARG.	9011	11 27	7 39 56.31	11 33 36	-13 16				434013
36262	NAGANO, JAPAN	0234	11 27	8 36 27	20 00	43				845002
36256	MITAKA, JAPAN	0229	11 27	8 38 3.1			274 18	48 30		845003
36259	KONKO, JAPAN	0224	11 27	8 39 47.1	21 55 30	54 36				845002
36261	KANAYA MACHI, JAPAN	0220	11 27	8 39 47.1	11 55 30	54 36				845002
11437	TOKYO, BN, JAPAN	9005	11 27	8 39 56.00	10 04 42	46 15				434013
36257	MITAKA, JAPAN	0229	11 27	8 41 14.0			352 14	64 18		845003
36264	HIGASHIMATSUYAMA, JAP	0210	11 27	8 41 33.6	0 47 42	64 06				845002
36260	YOKKAICHI, JAPAN	0258	11 27	8 42 10	1 13	64				845002
36263	YATSUSHIRO, JAPAN	0272	11 27	8 43 10			42 30	27 24		845002
36258	MITAKA, JAPAN	0229	11 27	8 43 23.5			33 48	40 54		845003
36265	MITAKA, JAPAN	0229	11 27	10 41 57.4			307 12	26 18		845003
36271	KAGOSHIMA, JAPAN	0218	11 27	10 42 29.5	18 10	71 30				845002
36269	YATSUSHIRO, JAPAN	0272	11 27	10 42 45			340 42	33 36		845002
36266	MITAKA, JAPAN	0229	11 27	10 43 37.7			322 18	34 24		845003
11438	TOKYO, BN, JAPAN	9005	11 27	10 43 42.80	19 03 00	60 03				434013
36268	YOKKAICHI, JAPAN	0258	11 27	10 45 51	0 29	85				845002
36270	MIYAZAKI, JAPAN	0230	11 27	10 45 52.0	6 16	76 30				845002
36267	MITAKA, JAPAN	0229	11 27	10 45 54.4			352 12	41 06		845003
36273	KAGOSHIMA, JAPAN	0218	11 27	12 43 27	18 58	48 30				845002
36272	MIYAZAKI, JAPAN	0230	11 27	12 43 27.3	19 05 00	47 12				845002
11440	NAINI TAL, BN, INDIA	9006	11 27	14 38 07.42	17 43 24	62 16				434013
11441	NAINI TAL, BN, INDIA	9006	11 27	14 39 41.92	18 47 18	70 44				434013
11442	NAINI TAL, BN, INDIA	9006	11 27	14 40 50.22	18 38 00	81 20				434013
36685	ADELAIDE, AUSTR.	8596	11 27	17 18 44.7			24 20	21 20		845002
11435	WOMERA, BN, AUSTR.	9003	11 27	17 21 39.37	9 55 12	12 09				434013

OBS NO	STATION	STA NO	DATE	TIME	R. A.	DECL.	AZIMUTH	ALTITUDE	RANGE	INDEX
36821	SYDNEY, AUSTR.	0602	11 27	17 23 08.1	8 56	11 43				845049
36822	SYDNEY, AUSTR.	0602	11 27	17 28 14.4	11 24 30	-14 48				845049
55147	MEUDON, FR.	2715	11 27	18 28 21.7			232 20	31 36		637109
55148	MEUDON, FR.	2715	11 27	18 29 15.7			227 50	39 33		637109
55149	MEUDON, FR.	2715	11 27	18 30 14.3			220 09	49 26		637109
55150	MEUDON, FR.	2715	11 27	18 31 17.2			203 41	60 33		637109
36030	BRISTOL, ENG.	0650	11 27	18 31 51.4	24 48 14	10 01				845042
55151	MEUDON, FR.	2715	11 27	18 33 15.5			134 12	66 18		637109
55152	MEUDON, FR.	2715	11 27	18 34 00.9			114 22	60 13		637109
55153	MEUDON, FR.	2715	11 27	18 35 15.6			97 59	48 49		637109
55154	MEUDON, FR.	2715	11 27	20 28 24.5			269 10	17 10		637109
55155	MEUDON, FR.	2715	11 27	20 29 01.1			268 52	20 44		637109
55156	MEUDON, FR.	2715	11 27	20 30 17.1			268 00	28 54		637109
55157	MEUDON, FR.	2715	11 27	20 31 27.5			266 33	39 05		637109
55158	MEUDON, FR.	2715	11 27	20 32 08.6			265 30	44 12		637109
11462	JUPITER, FLA.	9010	11 28	0 20 16.05	17 09 12	38 47				434013
35928	TERRE HAUTE, IND.	8127	11 28	0 21 05.0			275	42 10		845303
11463	JUPITER, FLA.	9010	11 28	0 22 39.24	17 09 06	57 49				434013
35930	ST. PETERSBURG, FLA.	0121	11 28	0 23 07	17 12 00	66 08				845032
35931	NEW ORLEANS, LA.	0010	11 28	0 23 49.2			0 00	35 30		845302
35932	NEW ORLEANS, LA.	0031	11 28	0 23 55			0	32		845302
35929	TERRE HAUTE, IND.	8127	11 28	0 25 12.4			19 30	60 10		845303
11464	JUPITER, FLA.	9010	11 28	0 26 26.18	10 36 00	85 42				434013
35933	ACAMAR, LA.	0073	11 28	0 27 30	23 25 35	78 20				845042
35934	AN JUE, CAL.	8573	11 28	2 08 37.7	20 57 18	51 37				845002
35935	AN JUE, CAL.	8573	11 28	2 20 09.3	21 28 37	69 42				845002
35936	AN JUE, CAL.	8573	11 28	2 24 14.9	1 31 10	64 57				845002
35937	ACAMAR, LA.	8573	11 28	4 24 17.0	21 35 24	73 51				845013
35938	AN JUE, CAL.	8573	11 28	4 24 38.0	22 32 10	65 58				845002
11465	VILLA JOSE, PANAMA	9011	11 28	6 54 19.64	7 15 54	35 18				434013
11466	VILLA JOSE, PANAMA	9011	11 28	7 04 49.37	9 24 48	11 46				434013
36276	AKAH, JAPAN	2242	11 28	8 08 40	10 25	39				845002
36277	MITAKA, JAPAN	2249	11 28	8 08 46.2			272 48	59 16		845303
36278	MITAKA, JAPAN	2249	11 28	8 09 42.6			301 36	70 00		845303
36279	MITAKA, JAPAN	2249	11 28	8 10 54.5			0 00	67 00		845302
36280	MITAKA, JAPAN	2249	11 28	8 11 10.30	11 49 36	58 35				434013
36281	MITAKA, JAPAN	2249	11 28	8 11 35.0			31 00	56 06		845303
36282	MITAKA, JAPAN	2249	11 28	10 04 14.4			309 49 12	7 03 00		845302
36283	MITAKA, JAPAN	2249	11 28	10 06 54.5			343 44 24	10 31 16		845302
11470	TAIYUEN, JAPAN	9011	11 28	10 09 21.30	19 20 25	71 36				434013
36284	MITAKA, JAPAN	2249	11 28	10 11 33	18 17	49				845002
36285	MITAKA, JAPAN	2249	11 28	10 14 25.0			313 30	31 42		845303
36286	MITAKA, JAPAN	2249	11 28	10 14 00			318 36	45 30		845302
36287	MITAKA, JAPAN	2249	11 28	10 14 24			16 49 12	4 14 24		845302
36288	MITAKA, JAPAN	2249	11 28	10 14 54	0 00	85				845002
36289	MITAKA, JAPAN	2249	11 28	10 15 29.6			354 18	41 12		845303
36290	MITAKA, JAPAN	2249	11 28	10 15 59.2	6 17 30	59 12				845042
36291	MITAKA, JAPAN	2249	11 28	10 16 59.9			15 42	39 12		845303
36292	MITAKA, JAPAN	2249	11 28	10 17 47.3			342 36 12	3 46 36		845302
36293	MITAKA, JAPAN	2249	11 28	10 17 47.3			17 09	40		845002
36294	MITAKA, JAPAN	2249	11 28	10 17 47.3			10 12 00	77 59		434013
36295	MITAKA, JAPAN	2249	11 28	10 17 47.3			88 45 38	18 58 12		845309
36296	MITAKA, JAPAN	2249	11 28	10 17 47.3			178 18	23 54		845302
36297	MITAKA, JAPAN	2249	11 28	10 17 47.3			164 06 36	74 07 48		845309
36298	MITAKA, JAPAN	2249	11 28	10 17 47.3			146 18	30 36		845302
36299	MITAKA, JAPAN	2249	11 28	10 17 47.3			110 06	25 42		845302
36300	MITAKA, JAPAN	2249	11 28	10 17 47.3			235 54 36	15 33 00		845309
36301	MITAKA, JAPAN	2249	11 28	10 17 47.3						845049
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36366	MITAKA, JAPAN	2249	11 28	10 17 47.3						845049
36367	MITAKA, JAPAN	2249	11 28	10 17 47.3						845049
36368	MITAKA, JAPAN	2249	11 28	10 17 47.3						845049
36369	M									

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55175	MEUDON, FR.	2715	11 28	20 01 09.9			265 15	31 05		637109
36665	BOCHUM, GER.	8599	11 28	20 01 33.8	20 36 56	14 42				845042
36666	BOCHUM, GER.	8599	11 28	20 01 50.0	20 43 27	15 12				845042
55176	MEUDON, FR.	2715	11 28	20 02 09.8			264 01	39 38		637109
55177	MEUDON, FR.	2715	11 28	20 03 11.8			261 36	50 19		637109
11470	SAN FERNANDO*BN, SP.	9004	11 28	20 03 48.40	22 27 30	82 04				434013
55178	MEUDON, FR.	2715	11 28	20 04 11.6			256 40	62 26		637109
55909	RODEWISCH, GER.	2733	11 28	20 04 35.2	40 48 24	10 24				834009
36667	BOCHUM, GER.	8599	11 28	20 04 42.5	22 40	26 20				845042
55179	MEUDON, FR.	2715	11 28	22 02 08.7			280 01	14 48		637109
11477	JUPITER*BN, FLA.	9010	11 28	23 49 59.47	16 52 30	39 00				434013
11478	JUPITER*BN, FLA.	9010	11 28	23 52 30.95	16 49 48	60 56				434013
35944	NEW ORLEANS, LA.	0031	11 28	23 53 11			0	32		845302
11479	JUPITER*BN, FLA.	9010	11 29	0 00 00.18	6 20 00	58 32				434013
35919	ROANOKE, VA.	0073	11 29	0 55 52	42 57 20	75 45				845042
35945	SACRAMENTO, CAL.	8517	11 29	1 50 09.1			0 00	71 46		641304
55278	SPOKANE, WASH.	8142	11 29	1 51 10.0			180	65 14 24		845309
36036	PUEBLA, MEX.	0900	11 29	1 53 05.2	15 53 00	68 53				845043
11474	ORGAN PASS*BN, N.M.	9001	11 29	1 53 27.36	18 55 12	84 52				434013
36038	DENVER, COLO.	8592	11 29	1 53 51.4			345 45 00	58 36		845303
36037	PUEBLA, MEX.	0900	11 29	1 54 15.5	15 01 06	75 08				845043
55280	SPOKANE, WASH.	8142	11 29	1 54 27.5			51 36	47 42		845309
36039	DENVER, COLO.	8592	11 29	1 55 30.6			24 18	52 30		845303
55281	SPOKANE, WASH.	8142	11 29	1 56 52.5			79 36	29 06		845309
35947	FORT WORTH, TEX.	0139	11 29	1 57 11.8	5 57 48	79 48				845013
55282	SPOKANE, WASH.	8142	11 29	3 48 39.1			266 54	15 30		845309
36040	SAN JOSE, CAL.	8573	11 29	3 50 25.1	18 35 30	42 44				845002
36041	SAN JOSE, CAL.	8573	11 29	3 53 06.5	23 41 36	77 23				845002
35946	SACRAMENTO, CAL.	8517	11 29	3 54 53.3			0 00	49 49		641304
55283	SPOKANE, WASH.	8142	11 29	3 55 11.0			260 54	79 06		845309
11475	AREQUIPA*BN, PERU	9007	11 29	6 29 57.44	9 04 42	7 12				434013
11476	AREQUIPA*BN, PERU	9007	11 29	6 32 09.33	5 59 48	-24 21				434023
36286	YOKKAICHI, JAPAN	0258	11 29	9 40 35	18 35	52				845002
36288	KANAYA MACHI, JAPAN	0220	11 29	9 40 54	17 58	52				845002
36289	SAPPORO, JAPAN	0245	11 29	9 42 34	19 42	37				845002
36290	WIZUSAWA, JAPAN	0267	11 29	9 44 00			327 00	50 18		845302
36287	KASHIMADARA, JAPAN	0222	11 29	9 44 17	23 31	84				845002
36291	YOKKAICHI, JAPAN	0258	11 29	11 42 45	18 43	40				845002
36292	SAPPORO, JAPAN	0245	11 29	11 45 21	20 28	38				845002
11481	NAINI TAL*BN, INDIA	9006	11 29	13 39 06.34	16 10 30	80 47				434013
11482	NAINI TAL*BN, INDIA	9006	11 29	13 39 46.07	13 57 42	85 48				434013
56047	POTS DAM, GER.	2729	11 29	17 25 56.5	18 52 30	-12 33				834049
56048	POTS DAM, GER.	2729	11 29	17 31 12.2	21 08 24	6 21				834049
56049	POTS DAM, GER.	2729	11 29	17 35 42.1	1 16 00	21 42				834049
55180	MEUDON, FR.	2715	11 29	19 27 26.9			264 14	11 31		637109
55181	MEUDON, FR.	2715	11 29	19 28 07.6			264 00	14 51		637109
56050	POTS DAM, GER.	2729	11 29	19 28 27.0	19 24 36	2 41				834049
55182	MEUDON, FR.	2715	11 29	19 29 08.2			263 38	20 49		637109
55183	MEUDON, FR.	2715	11 29	19 30 02.2			262 58	26 22		637109
55229	BESANCON, FR.	2727	11 29	19 30 15.82			271 22	23 03		834039
55230	BESANCON, FR.	2727	11 29	19 31 05.45			271 33	28 53		834039
56051	POTS DAM, GER.	2729	11 29	19 32 06.0	20 34 54	13 16				834049
55231	BESANCON, FR.	2727	11 29	19 32 26.75			272 02	40 31		834039
11480	SAN FERNANDO*BN, SP.	9004	11 29	19 32 44.30	20 36 00	79 20				434013
55232	BESANCON, FR.	2727	11 29	19 33 02.27			272 15	46 41		834039
55233	BESANCON, FR.	2727	11 29	19 34 19.45			273 04	62 31		834039
55234	BESANCON, FR.	2727	11 29	19 35 08.35			274 23	74 12		834039
56052	POTS DAM, GER.	2729	11 29	19 35 41.8	22 55 48	25 02				834049
36042	FORT WORTH, TEX.	0139	11 30	1 26 16.5	18 40 00	88 42				845013
36043	NEW ORLEANS, LA.	0030	11 30	1 27 01.5			0 00	28 00		845302
36044	NEW ORLEANS, LA.	0031	11 30	1 27 06			0	28 30		845302
36045	BILOXI, MISS.	0090	11 30	1 27 18			0	26 18		845302
36046	TERRE HAUTE, IND.	8127	11 30	1 27 24.0			355	22 25		845303
11489	OLIFANTS*BN, S.AF	9002	11 30	2 12 27.30	6 08 12	-17 22				434013
11483	APEQUIPA*BN, PERU	9007	11 30	6 02 40.93	10 02 54	-7 32				434013
11486	VILLA DOLORES*BN, ARG	9011	11 30	6 05 17.20	9 46 42	7 26				434013
11484	APEQUIPA*BN, PERU	9007	11 30	8 02 41.86	6 44 00	-31 28				434023
11487	VILLA DOLORES*BN, ARG	9011	11 30	8 16 12.79	14 11 30	-41 28				434023
36293	MITAKA, JAPAN	0229	11 30	9 12 23.8			326 12	39 42		845303
36294	MITAKA, JAPAN	0229	11 30	9 13 23.7			342 42	44 18		845303
11498	TOKYO*BN, JAPAN	9005	11 30	9 14 53.60	2 03 00	81 35				434013
36295	MITAKA, JAPAN	0229	11 30	9 15 20.3			14 00	39 24		845303
11492	NAINI TAL*BN, INDIA	9006	11 30	13 08 22.19	15 44 42	82 31				434013
55184	MEUDON, FR.	2715	11 30	16 59 35.7			183 55	48 13		637109
55185	MEUDON, FR.	2715	11 30	17 00 07.4			172 35	51 25		637109
55186	MEUDON, FR.	2715	11 30	17 01 07.4			147 08	53 38		637109
55187	MEUDON, FR.	2715	11 30	17 02 03.4			125 02	50 29		637109
55188	MEUDON, FR.	2715	11 30	17 03 03.9			108 19	44 00		637109
55189	MEUDON, FR.	2715	11 30	17 04 10.7			96 49	36 18		637109
36047	BOCHUM, GER.	8599	11 30	17 05 15.6	1 54 16	20 43				845042
11490	WOMERAT*BN, AUSTR.	9003	11 30	17 53 12.26	8 49 48	-10 20				434013
11491	SAN FERNANDO*BN, SP.	9004	11 30	19 01 49.70	20 01 00	77 52				434013
11494	OLIFANTS*BN, S.AF	9002	11 30	23 40 07.52	9 00 48	9 31				434013
36048	DENVER, COLO.	8592	12 01	0 50 28.5			291 15 00	51 36		845303
36051	TERRE HAUTE, IND.	8127	12 01	0 51 28.4			315	42 30		845303
36052	SAN ANTONIO, TEX.	0096	12 01	0 54 42.4	8 05 00	84 38				845013
36054	NEW ORLEANS, LA.	0030	12 01	0 56 10.5			0 00	28 30		845302
36055	NEW ORLEANS, LA.	0031	12 01	0 56 18			0	28		845302
36056	MILWAUKEE, WISC.	0074	12 01	0 57 51.6	2 16	60 42				641043
11495	OLIFANTS*BN, S.AF	9002	12 01	1 39 04.68	5 25 48	1 38				434013
36057	SAN JOSE, CAL.	8573	12 01	2 50 13.7	18 03 37	51 29				845002
36058	SAN JOSE, CAL.	8573	12 01	2 51 54.3	23 37 36	79 53				845002

OBS NO	STATION	STA NO	DATE	TIME	No. A.	DECL.	AZIMUTH	ALTITUDE	RANGE	INDEX
36049	DENVER, COLO.	8592	12 01	2 54 07.5			312 30	37 36		845303
36059	CHINA LAKE, CAL.	0098	12 01	2 54 39.1			6 40 48	38 31 00		841303
11493	ORGAN PASS, BN, N.H.	9001	12 01	2 55 50.80	17 33 06	82 18				434013
36060	FORT WORTH, TEX.	0139	12 01	2 56 13	18 37 30	65 21				845013
36061	PUEBLA, MEX.	0900	12 01	2 56 16.4	16 46 30	61 33				845043
36053	SAN ANTONIO, TEX.	0096	12 01	2 56 37.7	18 09	72 08				845042
56128	MADISON, WISC.	5078	12 01	2 56 38.0	20 38 18	40 42				637007
36062	PUEBLA, MEX.	0900	12 01	2 56 39.1	16 19 06	73 26				845043
36050	DENVER, COLO.	8592	12 01	2 56 37.3			306 12	34 28 00		845303
11506	VILLA COLORES, BN, ARG	9011	12 01	5 32 23.88	8 36 30	17 52				434013
11507	VILLA COLORES, BN, ARG	9011	12 01	7 34 00.01	6 59 48	0 45				434013
36301	KANAYA MACHI, JAPAN	0220	12 01	8 39 45	17 36	52				845002
11499	TOKYO, JAPAN	9005	12 01	8 40 58.60	17 33 24	54 28				434013
55459	VLADIVOSTOK, USSR	1013	12 01	8 41 04.3	21 25 30	41 00				845009
36300	KONKO, JAPAN	0224	12 01	8 42 07.8	22 38 00	81 30				845002
36296	MITAKA, JAPAN	0229	12 01	8 42 37.5			350 12	43 34		845303
36299	MUSASHINO, JAPAN	0233	12 01	8 43 29.2			0 00	43		845302
36303	MIZUSAKA, JAPAN	0267	12 01	8 44 00			44 36	34 16		845302
36297	MITAKA, JAPAN	0229	12 01	8 44 11.3			11 06	40 46		845303
55460	VLADIVOSTOK, USSR	1013	12 01	8 45 23.6	3 03 00	40 30				845009
36302	KAGOSHIMA, JAPAN	0218	12 01	8 47 13.1	5 12 30	45 48				845002
36298	MITAKA, JAPAN	0229	12 01	8 49 26.6			51 24	17 12		845302
55497	TCHITA, USSR	1064	12 01	10 38 25.7	20 02 30	4 30				845009
36304	MITAKA, JAPAN	0229	12 01	10 43 30.5			314 42	23 00		845303
36311	KAGOSHIMA, JAPAN	0218	12 01	10 44 36	16 32	77 12				845002
55498	TCHITA, USSR	1064	12 01	10 45 01.6	2 03 36	22 24				845009
36308	SAPPORO, JAPAN	0245	12 01	10 45 37	20 41	50				845002
36305	MITAKA, JAPAN	0229	12 01	10 45 44.6			333 00	34 24		845303
36309	YATSUSHIRO, JAPAN	0212	12 01	10 45 46			0 00	31 26		845302
36312	HIGASHIMATSUYAMA, JAP	0210	12 01	10 46 37.8	20 03	76 26				845302
11515	TOKYO, JAPAN	9005	12 01	10 46 38.60	20 16 00	76 47				434013
36307	KASHI, ABAPA, JAPAN	0222	12 01	10 46 55	1 00	87				845002
36310	MIYAKAKI, JAPAN	0230	12 01	10 47 00.6	3 52	79 48				845002
36306	MITAKA, JAPAN	0229	12 01	10 47 01.4			247 30	39 40		845302
11500	NAINI TAL, BN, INDIA	9006	12 01	12 40 07.73	5 52 00	72 50				434013
11501	NAINI TAL, BN, INDIA	9006	12 01	12 40 37.33	5 46 18	58 47				434013
11502	NAINI TAL, BN, INDIA	9006	12 01	12 41 37.83	5 41 36	62 36				434013
11503	NAINI TAL, BN, INDIA	9006	12 01	14 40 44.33	17 16 36	72 27				434013
11504	NAINI TAL, BN, INDIA	9006	12 01	14 41 32.33	17 04 00	79 01				434013
55235	BESANCON, FR.	2727	12 01	16 25 15.01			245 44	16 24 12		834309
55266	SPETSAL, GR.	8078	12 01	16 25 30.1			73 12 30	8 37 12		834309
55267	SPETSAL, GR.	8078	12 01	16 26 34.1			75 14 24	11 20 48		834309
55268	SPETSAL, GR.	8078	12 01	16 27 34.1			77 00 00	13 46 12		834309
55253	POTSDAM, GER.	2729	12 01	16 28 10.7	17 45 30	7 07				834309
55269	SPETSAL, GR.	8078	12 01	16 28 17.1			102 30 36	20 16 12		834309
55270	SPETSAL, GR.	8078	12 01	16 29 17.1			108 36 00	26 17 12		834309
55271	SPETSAL, GR.	8078	12 01	16 30 12.1			115 32 48	32 09 36		834309
55236	UJGOROD, USSR	1055	12 01	16 30 35.8	19 39 00	11 30				834309
55272	SPETSAL, GR.	8078	12 01	16 31 16.1			118 15 00	37 24 00		834309
55254	POTSDAM, GER.	2729	12 01	16 32 08.1	22 33 48	10 24				834309
55273	SPETSAL, GR.	8078	12 01	16 32 10.1			121 32 24	44 34 12		834309
55237	UJGOROD, USSR	1055	12 01	16 33 30.7	21 44 30	10 12				834309
55274	SPETSAL, GR.	8078	12 01	16 33 34.1			127 30 12	47 46 36		834309
55238	UJGOROD, USSR	1055	12 01	16 33 36.3	22 40 00	11 18				834309
55275	SPETSAL, GR.	8078	12 01	16 34 11.1			133 45 36	46 37 48		834309
55239	UJGOROD, USSR	1055	12 01	16 34 11.1	23 12 30	13 34				834309
56120	Sonneberg, GER.	2730	12 01	16 35 12.1	1 12 30	41 18				834309
55276	SPETSAL, GR.	8078	12 01	16 35 16.1			201 25 48	48 16 12		834309
55241	LVOV, USSR	1031	12 01	16 35 57.7	1 01 00	31 24				834309
55255	POTSDAM, GER.	2729	12 01	16 36 07.1	2 01 00	17 19				834309
55277	SPETSAL, GR.	8078	12 01	16 36 32.1			215 47 12	50 07 48		834309
55278	SPETSAL, GR.	8078	12 01	16 37 02.1			219 56 48	52 21 00		834309
55236	BESANCON, FR.	2727	12 01	16 37 11.74			76 11	16 12		834309
55242	LVOV, USSR	1031	12 01	16 37 38.5	1 10 00	15 34				834309
55279	SPETSAL, GR.	8078	12 01	16 38 34.1			226 31 12	57 06 36		834309
55237	BESANCON, FR.	2727	12 01	16 38 35.44			76 34	14 16		834309
55280	SPETSAL, GR.	8078	12 01	16 39 09.1			231 34 48	58 07 00		834309
55259	UJGOROD, USSR	1055	12 01	16 39 26.3	3 45 00	23 00				834309
11496	MOERAP, BN, AUSTR.	9003	12 01	17 22 06.79	8 41 24	4 48				434013
55256	POTSDAM, GER.	2729	12 01	18 28 17.2	19 02 17	2 18				834309
55238	BESANCON, FR.	2727	12 01	18 29 03.00			265 28	24 16		834309
55239	BESANCON, FR.	2727	12 01	18 30 12.61			265 46	33 33		834309
55240	BESANCON, FR.	2727	12 01	18 30 30.09			265 51	36 17		834309
55281	SPETSAL, GR.	8078	12 01	18 30 37.2			118 16 48	8 59 24		834309
55241	BESANCON, FR.	2727	12 01	18 31 13.26			266 05	43 44		834309
11497	SAN FERNANDO, BN, SP.	9004	12 01	18 31 15.40	21 09 00	80 72				434013
55282	SPETSAL, GR.	8078	12 01	18 31 24.2			120 34 48	12 15 36		834309
55242	BESANCON, FR.	2727	12 01	18 32 00.64			266 26	53 27		834309
55283	SPETSAL, GR.	8078	12 01	18 32 23.6			123 39 24	16 43 12		834309
55243	BESANCON, FR.	2727	12 01	18 33 02.64			267 05	60 26		834309
55257	POTSDAM, GER.	2729	12 01	18 33 07.7	21 40 36	19 45				834309
55284	SPETSAL, GR.	8078	12 01	18 33 23.2			128 21 00	21 48 36		834309
55244	BESANCON, FR.	2727	12 01	18 34 10.71			267 47	67 55		834309
55285	SPETSAL, GR.	8078	12 01	18 34 46.2			136 33 00	29 40 12		834309
55245	BESANCON, FR.	2727	12 01	18 35 07.44			85 26	71 47		834309
55286	SPETSAL, GR.	8078	12 01	18 35 17.2			140 31 12	32 34 36		834309
55246	BESANCON, FR.	2727	12 01	18 36 07.19			86 00	63 25		834309
55287	SPETSAL, GR.	8078	12 01	18 36 12.2			149 16 48	38 22 48		834309
56058	POTSDAM, GER.	2729	12 01	18 36 50.0	1 12 00	25 39				834049
55247	BESANCON, FR.	2727	12 01	20 32 34.05			280 19	23 49		834309
55248	BESANCON, FR.	2727	12 01	20 34 07.15			277 20	35 00		834309
36063	MILWAUKEE, WISC.	0074	12 02	0 19 21.4	17 55	14 54				841043
36065	CHICAGO, ILL.	0020	12 02	0 21 44			284 00 00	33 00 00		845302
36064	MILWAUKEE, WISC.	0074	12 02	0 22 22.3	18 53	36 42				841043

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36135	TERRE HAUTE, IND.	8127	12 02	0 23 47.6			316 30	44 49		845302
36070	NEW ORLEANS, LA.	0031	12 02	0 25 19			0	27 30		845302
36136	TERRE HAUTE, IND.	8127	12 02	0 25 50.0			0	27 30		845303
36066	CHICAGO, ILL.	0020	12 02	0 27 27.5			44 00 00	53 18 00		845302
36072	SAN ANTONIO, TEX.	0096	12 02	0 27 39.5	5 30 08	55 09				845013
36071	ROCHESTER, N.Y.	8564	12 02	0 27 41.4	23 10 12	63 55				845013
36088	STATE COLLEGE, PA.	8503	12 02	0 27 48.4			355 42	56 40		845302
36067	CHICAGO, ILL.	0020	12 02	0 28 43			43 00 00	55 18 00		845302
11509	OLIFANTSFENTN'BN, S.A.F.	9002	12 02	1 09 58.73	6 06 12	- 6 18				434013
36074	MILWAUKEE, WISC.	0074	12 02	2 21 13.5	15 08	62 12				641043
36075	CHINA LAKE, CAL.	8588	12 02	2 22 42.2			352 36 46	39 04 14		845303
36068	CHICAGO, ILL.	0020	12 02	2 23 03			293 00 00	15 00 00		845302
36078	N. CANTON, OHIO	8572	12 02	2 24 31.9	19 18 30	30 12				845042
36069	CHICAGO, ILL.	0020	12 02	2 25 10			297 00 00	28 00 00		845302
36073	SAN ANTONIO, TEX.	0096	12 02	2 26 02.0	17 05 52	75 12				845013
36076	FORT WORTH, TEX.	0139	12 02	2 27 07.2	18 43 18	83 03				845013
56129	MADISON-P, WISC.	5078	12 02	2 27 16.0	21 22 30	51 00				637007
36077	N. CANTON, OHIO	8572	12 02	2 27 22.4	20 17 30	44 12				845042
11517	VILLA OLORES'BN, ARG	9011	12 02	5 03 10.29	9 18 48	11 51				434013
11518	VILLA OLORES'BN, ARG	9011	12 02	7 03 17.49	7 12 18	2 23				434013
36313	MITAKA, JAPAN	0229	12 02	8 10 03.8			313 00	41 30		845303
36316	MUSASHINO, JAPAN	0233	12 02	8 10 15.8			315	42		845302
36314	MITAKA, JAPAN	0229	12 02	8 12 44.1			5 06	43 42		845303
36315	MITAKA, JAPAN	0229	12 02	8 14 20.6			32 18	32 36		845303
36317	MIZUSAWA, JAPAN	0267	12 02	8 17 00			53 18	28 00		845302
36321	KANAYA MACHI, JAPAN	0220	12 02	10 11 55	17 32	52				845002
36318	MITAKA, JAPAN	0229	12 02	10 13 13.3			319 24	26 30		845303
36322	SAPPORO, JAPAN	0245	12 02	10 13 58	19 44	45				845002
55440	BLAGOVESHCHENSK, USSR	1010	12 02	10 14 24.2	0 01 30	34 18				845009
36324	KAGOSHIMA, JAPAN	0218	12 02	10 15 28.5	7 20	81 18				845002
36320	KASHIABARA, JAPAN	0222	12 02	10 15 53	1 00	88				845002
36326	MIZUSAWA, JAPAN	0267	12 02	10 17 00			359 42	52 24		845302
36323	YATSUSHIRO, JAPAN	0272	12 02	10 17 10			26 18	27 06		845302
36325	HIGASHIMATSUYAMA, JAP	0210	12 02	10 17 19.4	3 49	80 18				845002
55441	BLAGOVESHCHENSK, USSR	1010	12 02	10 17 30.6	3 01 00	25 00				845009
36319	KONAK, JAPAN	0224	12 02	10 17 35.4	5 42 30	66 00				845002
55442	ABAKAN, USSR	1001	12 02	12 13 00.3	1 46 42	18 12				845009
36328	KAGOSHIMA, JAPAN	0218	12 02	12 14 29	18 52	53 00				845002
36327	KANAYA MACHI, JAPAN	0220	12 02	12 14 54	19 23	46				845002
11516	NAINI TAL'BN, INDIA	9006	12 02	14 12 08.64	8 22 30	83 54				434013
55588	SPETSAL, GR.	8078	12 02	15 56 12.9			93 13 48	9 40 12		834309
55589	SPETSAL, GR.	8078	12 02	15 57 14.9			97 46 48	20 22 48		834309
55444	TCHEKNOVITSY, USSR	1062	12 02	15 58 06.7	18 44 00	0 12				845009
55590	SPETSAL, GR.	8078	12 02	15 58 19.9			104 19 12	27 15 36		834309
55591	SPETSAL, GR.	8078	12 02	15 59 29.9			114 53 24	35 42 36		834309
55592	SPETSAL, GR.	8078	12 02	16 00 03.9			122 03 00	39 55 48		834309
55450	UGOROD, USSR	1055	12 02	16 00 04.2	19 44 00	10 24				845009
55459	POTSAM, GER.	2729	12 02	16 00 53.2	22 04 06	5 23				834049
55456	ODESSA, USSR	1036	12 02	16 01 02.6	18 56 30	13 42				845009
55451	UGOROD, USSR	1055	12 02	16 01 07.3	20 35 30	18 00				845009
55593	SPETSAL, GR.	8078	12 02	16 01 27.9			147 23 24	48 19 48		834309
55460	POTSAM, GER.	2729	12 02	16 02 03.4	23 10 00	10 32				834049
55457	ODESSA, USSR	1036	12 02	16 02 03.8	19 39 30	27 18				845009
55452	UGOROD, USSR	1055	12 02	16 02 12.7	21 43 00	25 12				845009
55446	LVOV, USSR	1031	12 02	16 02 27.9	21 38 30	21 54				845009
55594	SPETSAL, GR.	8078	12 02	16 02 31.9			172 01 12	49 34 48		834309
55595	SPETSAL, GR.	8078	12 02	16 03 02.9			183 17 24	48 15 00		834309
55453	UGOROD, USSR	1055	12 02	16 03 37.4	23 31 00	31 42				845009
55447	LVOV, USSR	1031	12 02	16 03 57.8	23 28 30	28 12				845009
55596	SPETSAL, GR.	8078	12 02	16 04 17.9			204 32 24	41 40 48		834309
55454	UGOROD, USSR	1055	12 02	16 04 19.3	0 26 30	32 24				845009
55461	POTSAM, GER.	2729	12 02	16 04 58.1	1 32 36	15 36				834049
55597	SPETSAL, GR.	8078	12 02	16 05 12.9			214 46 48	35 58 48		834309
55448	KIEV, USSR	1023	12 02	16 05 33.3	0 04 18	31 30				845009
55598	SPETSAL, GR.	8078	12 02	16 06 02.9			221 27 36	30 58 48		834309
55455	UGOROD, USSR	1055	12 02	16 06 07.5	2 12 00	29 06				845009
55443	NIKOLAEV, USSR	1077	12 02	16 06 41.5	0 37 36	43 00				845009
55458	ODESSA, USSR	1036	12 02	16 07 03.1	2 15 48	41 18				845009
55599	SPETSAL, GR.	8078	12 02	16 07 12.9			228 07 12	24 39 00		834309
55460	SPETSAL, GR.	8078	12 02	16 08 11.9			232 10 48	20 04 12		834309
55445	TCHEKNOVITSY, USSR	1062	12 02	16 09 08.9	3 48 24	23 12				845009
55461	SPETSAL, GR.	8078	12 02	16 09 20.9			234 48 36	15 21 36		834309
55449	KIEV, USSR	1023	12 02	16 09 29.1	2 50 00	21 12				845009
36648	BOCHUM, GER.	8599	12 02	17 59 33.1	19 44 20	9 42				845042
11512	SAN FERNANDO'BN, SP.	9004	12 02	17 59 35.00	19 12 54	73 18				434013
55602	SPETSAL, GR.	8078	12 02	18 01 51.9			125 16 48	19 08 24		834309
55603	SPETSAL, GR.	8078	12 02	18 02 46.9			130 13 12	24 01 12		834309
36649	BOCHUM, GER.	8599	12 02	18 03 16.6	23 01 18	27 30				845042
55604	SPETSAL, GR.	8078	12 02	18 03 22.9			134 09 36	27 25 12		834309
55605	SPETSAL, GR.	8078	12 02	18 04 01.9			139 15 00	31 16 12		834309
36670	BOCHUM, GER.	8599	12 02	18 04 09.2	0 05 48	28 48				845042
55606	SPETSAL, GR.	8078	12 02	18 05 39.9			157 01 48	40 28 48		834309
36671	BOCHUM, GER.	8599	12 02	18 06 14.0	2 10 00	24 28				845042
55607	SPETSAL, GR.	8078	12 02	18 06 17.9			167 53 24	43 34 48		834309
55608	SPETSAL, GR.	8078	12 02	18 07 11.9			181 23 24	45 58 12		845042
11513	SAN FERNANDO'BN, SP.	9004	12 02	20 03 42.10	20 03 00	77 29				434013
36079	MILWAUKEE, WISC.	0074	12 02	23 47 06.8	17 23	4 30				641043
36137	EVANSTON, ILL.	0149	12 02	23 49 57.8			264 18 30	27 23		845302
36081	COLUMBUS, OHIO	0051	12 02	23 50 19.1			285 30	22 06		845303
36080	MILWAUKEE, WISC.	0074	12 02	23 52 16.5	19 07	41 00				641043
36083	TERRE HAUTE, IND.	8127	12 02	23 52 44.3			315	46 50		845302
36084	DAYTON, OHIO	8557	12 02	23 53 47.1			303 17	48 53		845303
36092	COLUMBUS, OHIO	0051	12 02	23 58 26.6			46 52 30	39 00		845303
36086	SACRAMENTO, CAL.	8517	12 03	1 51 04.2			0 00	51 22		641304

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36087	CHICAGO, ILL.	0020	12 03	1 53 51			292	14 30		845302
36088	CHICAGO, ILL.	0020	12 03	1 54 23			297 18 00	30		845302
36089	MILWAUKEE, WISC.	0074	12 03	1 54 24.6	19 30	38 12				841043
36090	MILWAUKEE, WISC.	0074	12 03	1 55 34.0	20 12	46 12				841043
36092	MILWAUKEE, WISC.	0198	12 03	1 55 41.7	22 16	46 45				841012
36093	N. CANTON, OHIO	8544	12 03	1 56 25.5	19 58 45	45 24				845033
36094	MILWAUKEE, WISC.	0074	12 03	1 56 47.5	21 26	54 42				841043
36094	N. CANTON, OHIO	8544	12 03	1 56 48.7	20 13	47 43				845042
36095	DAYTON, OHIO	8557	12 03	1 57 25.8			318 43	45 45		845303
36095	N. CANTON, OHIO	8544	12 03	1 57 50.0	21 02 04	54 08				845013
11519	VILLA DOLORE, SPAN, ARG	9011	12 03	6 34 08.73	6 13 06	- 6 08				434013
36331	MIYAZAKI, JAPAN	0230	12 03	9 41 36.4	16 26	68 54				845002
36330	YATSUSHIRO, JAPAN	0272	12 03	9 43 25			0 00	29 18		845302
36332	KAGOSHIMA, JAPAN	0218	12 03	9 44 11	7 20	81 18				845002
36333	HIGASHIMATSUYAMA, JAP	0210	12 03	9 45 24.0			0 00	39 30		845303
36329	MUSASHINO, JAPAN	0233	12 03	9 45 31.5			0 00	39		845302
11521	TOKYO, JPN.	9005	12 03	9 45 34.70	1 30 00	86 03				434013
36338	KAGOSHIMA, JAPAN	0218	12 03	11 43 58	16 27	57 54				845002
36372	BAGUIO CITY, PH. IS.	0504	12 03	11 44 44			356 28 12	5 36 36		845302
36336	YATSUSHIRO, JAPAN	0272	12 03	11 44 48			330 00	26 36		845302
36335	KANAYA MACHI, JAPAN	0220	12 03	11 44 49	19 13	50				845002
36334	KANAWABARA, JAPAN	0222	12 03	11 44 50	19 10	51				845002
36337	MIYAZAKI, JAPAN	0230	12 03	11 45 36.0	19 02 48	67 00				845002
55445	LYOV, USSR	1031	12 03	15 30 37.2	19 54 00	6 42				845009
55446	LYOV, USSR	1031	12 03	15 33 26.7	22 45 30	23 36				845009
55444	ODESSA, USSR	1036	12 03	15 35 26.7	1 36 00	41 36				845009
55249	BESANCON, FR.	2727	12 03	17 15 11.50			258 00	12 46		834309
55250	BESANCON, FR.	2727	12 03	17 15 33.08			258 00	14 42		834309
55251	BESANCON, FR.	2727	12 03	17 26 06.60			257 56	18 09		834309
55252	BESANCON, FR.	2727	12 03	17 27 10.89			257 50	25 14		834309
55253	BESANCON, FR.	2727	12 03	17 28 17.84			257 48	34 55		834309
55254	BESANCON, FR.	2727	12 03	17 29 30.77			256 56	42 40		834309
55255	BESANCON, FR.	2727	12 03	17 30 07.13			255 23	57 32		834309
55256	BESANCON, FR.	2727	12 03	17 31 05.74			250 25	73 30		834309
55257	BESANCON, FR.	2727	12 03	17 32 42.66			249 07	77 22		834309
55258	BESANCON, FR.	2727	12 03	17 33 03.34			249 11	71 32		834309
55259	BESANCON, FR.	2727	12 03	17 34 04.08			85 32	57 47		834309
55260	BESANCON, FR.	2727	12 03	17 35 46.78			83 55	43 24		834309
55261	BESANCON, FR.	2727	12 03	17 36 01.57			83 30	30 05		834309
55262	BESANCON, FR.	2727	12 03	17 37 01.04			83 14	29 44		834309
55263	BESANCON, FR.	2727	12 03	17 38 14.45			279 54	11 13		834309
55264	BESANCON, FR.	2727	12 03	17 39 08.55			274 38	16 04		834309
55265	BESANCON, FR.	2727	12 03	17 40 23.47			278 59	23 33		834309
55266	BESANCON, FR.	2727	12 03	17 41 33.06			278 28	28 14		834309
55267	BESANCON, FR.	2727	12 03	17 42 43.57			276 46	39 51		834309
55268	BESANCON, FR.	2727	12 03	17 43 53.92			274 45	48 47		834309
55269	BESANCON, FR.	2727	12 03	17 45 06.34			270 38	60 05		834309
55270	BESANCON, FR.	2727	12 03	17 46 16.54			251 30	74 15		834309
56145	ST. PETERSBURG, FLA.	0011	12 03	23 21 55	14 46	74 35				845042
56149	CHI. AUG. ILL.	0011	12 03	23 23 20.0	14 51	66 10				845042
56144	IN INNA, OHIO	0050	12 03	23 23 31.1			349 48	52 00		845302
56142	STATE COLLEGE, PA.	0094	12 03	23 24 44.5	13 05 18	74 00				837009
56143	CHI. AUG. ILL.	0011	12 03	23 24 47.0	14 51	68 30				845042
56142	STATE COLLEGE, PA.	0094	12 03	23 25 04.0			348 18	54 18		845302
56147	ROCHESTER, N.Y.	0051	12 03	23 25 33.7	23 06 36	64 51				845013
56148	STATE COLLEGE, PA.	0094	12 03	23 26 07.0			44 18	44 12		845302
56146	N. CANTON, OHIO	8554	12 03	23 26 46.7	14 10 15	58 35				845042
56141	CHI. AUG. ILL.	0011	12 03	23 27 32.4	14 57	40 00				845042
56138	SACRAMENTO, CAL.	8527	12 04	1 19 44.0			0 00	53 22		841304
56138	CHITTIKOT, INDIA	8566	12 04	1 19 44.0			346 44 24	35 24 36		845303
56137	CHITTIKOT, INDIA	8566	12 04	1 19 44.0			347 06 00	40 23 14		841303
56136	CHITTIKOT, INDIA	8566	12 04	1 21 46.1			16 15 00	31 37 48		845303
56135	DAYTON, OHIO	8557	12 04	1 27 04.7			334 04	52 42		845303
56134	IN INNA, OHIO	0050	12 04	1 27 24.1			343 42	53 16		845302
56137	N. CANTON, OHIO	8584	12 04	1 27 49.1	14 18 15	63 38				845012
56132	DAYTON, OHIO	8557	12 04	1 28 01.6			11 30	58 40		845303
56139	SACRAMENTO, CAL.	8517	12 04	1 27 43.4	20 06 18	72 34				841013
56138	SACRAMENTO, CAL.	8517	12 04	1 23 51.0			0 00	44 44		841304
56136	IN INNA, OHIO	0050	12 04	1 24 49.8			277 54	12 42		845302
56135	CHITTIKOT, INDIA	8566	12 04	1 25 46.6			13 00 00	37 38 14		845303
56141	SACRAMENTO, CAL.	8517	12 04	5 12 57.3	10 08 12	38 22				844013
56147	ARI. IN INNA, OHIO	0057	12 04	5 54 38.52	5 48 48	-42 11				434023
56142	ARI. IN INNA, OHIO	0050	12 04	7 05 06.3	1 08 42	21 16				845042
56445	BLAGOVESHCHENSK, USSR	1025	12 04	9 10 26.1	1 12 30	24 54				845009
56449	KAGOSHIMA, JAPAN	0272	12 04	9 12 05			0 00	29 00		845302
56450	KAGOSHIMA, JAPAN	0218	12 04	9 12 44.5	7 15	81 30				845002
56451	KOMOMOLSK, USSR	1025	12 04	9 12 57.4	0 25 06	68 24				845009
56449	BLAGOVESHCHENSK, USSR	1010	12 04	9 14 17.4	1 08 00	25 48				845009
56452	KOMOMOLSK, USSR	1025	12 04	9 15 04.8	2 59 18	58 24				845009
56453	KOMOMOLSK, USSR	1025	12 04	9 18 06.1	2 80 24	32 18				845009
56453	BAGUIO CITY, PH. IS.	0504	12 04	11 12 40			352 50 24	3 54		845302
56452	KAGOSHIMA, JAPAN	0218	12 04	11 14 25	16 14	72 36				845002
56451	YATSUSHIRO, JAPAN	0272	12 04	11 14 33			340 00	29 48		845302
56453	HSINCHU CITY, TAIWAN	0505	12 04	11 14 48	9 37	80 24				845042
56454	BAGUIO CITY, PH. IS.	0504	12 04	11 14 52			5 40 48	5 47 24		845302
11522	NAINI TALBN, INDIA	9006	12 04	13 05 56.05	14 34 00	71 32				434013
11523	NAINI TALBN, INDIA	9006	12 04	13 07 45.19	14 45 36	78 08				434013
55545	IRKUTSK, USSR	1079	12 04	13 09 31.2	20 49	16 12				845009
11524	NAINI TALBN, INDIA	9006	12 04	13 10 35.15	6 42 42	72 44				434013
55546	IRKUTSK, USSR	1079	12 04	13 13 16.0	0 11	21 06				845009
55543	EREVAN, USSR	1018	12 04	15 06 37.3	3 11 12	65 36				845009
55541	KRASNOCLAR, USSR	1027	12 04	15 07 08.2	3 04	39 06				845009
55544	EREVAN, USSR	1018	12 04	15 07 28.6	3 52 06	56 48				845009
55542	KRASNOCLAR, USSR	1027	12 04	15 08 21.3	3 40	31 06				845009

OBS. NO.	STATION	STA. NO.	DATE	TIME	R. A.	DECL.	AZIMUTH	ALTITUDE	RANGE	INDEX
11510	WOOMERA*BN. AUSTR.	9003	12 04	15 48 30.31	8 38 12	3 10				434013
55609	SPETSAL. GR.	8078	12 04	16 56 23.1			110 40 48	6 04 48		834309
55610	SPETSAL. GR.	8078	12 04	16 57 23.1			113 54 00	10 01 48		834309
55611	SPETSAL. GR.	8078	12 04	16 58 07.1			116 43 48	13 09 36		834309
55612	SPETSAL. GR.	8078	12 04	16 59 24.1			122 57 36	19 22 12		834309
55613	SPETSAL. GR.	8078	12 04	17 00 12.1			128 02 24	23 39 36		834309
55614	SPETSAL. GR.	8078	12 04	17 01 00.1			134 19 48	28 14 24		834309
55615	SPETSAL. GR.	8078	12 04	17 02 20.1			148 34 48	35 42 36		834309
55616	SPETSAL. GR.	8078	12 04	17 03 07.1			159 35 24	39 27 36		834309
55499	LVOV. USSR	1031	12 04	17 03 32.6	22 12 00	34 36				845009
55617	SPETSAL. GR.	8078	12 04	17 04 49.0			188 13 48	42 34 12		834309
55618	SPETSAL. GR.	8078	12 04	17 05 42.1			202 35 24	41 01 48		834309
55500	LVOV. USSR	1031	12 04	17 05 59.5	1 17 00	32 00				845009
55619	SPETSAL. GR.	8078	12 04	17 06 29.1			213 29 24	38 19 12		834309
55620	SPETSAL. GR.	8078	12 04	17 07 17.1			222 37 48	34 49 48		834309
55621	SPETSAL. GR.	8078	12 04	17 08 00.1			229 13 48	31 33 36		834309
36114	WOOMERA*BN. AUSTR.	0603	12 04	17 49 51.7			289 54	65 06		845302
36115	WOOMERA*BN. AUSTR.	0603	12 04	17 52 50.3			183 00	79 30		845302
11511	WOOMERA*BN. AUSTR.	9003	12 04	17 53 53.58	8 43 30	-47 39				434023
36116	WOOMERA*BN. AUSTR.	0603	12 04	17 57 41.8			136 00	40 12		845302
11514	SAN FERNANDO*BN. SP.	9004	12 04	19 02 02.20	1 17 00	85 17				434013
36117	DENVER. COLO.	8592	12 05	0 48 20.4			321 30	45 30		845303
36118	DENVER. COLO.	8592	12 05	0 51 57.0			357 00	51 06		845303
36119	N. CANTON. OHIO	8559	12 05	0 52 44.9	18 23	38 31				845042
36121	CHINA LAKE. CAL.	8588	12 05	2 53 48.0			7 51 00	40 04 12		845303
36120	N. CANTON. OHIO	8544	12 05	2 55 46.5	20 38 10	30 15				845032
11526	VILLA DOLORES*BN. ARG.	9011	12 05	5 30 33.20	7 52 44	4 35				434013
11527	VILLA DOLORES*BN. ARG.	9011	12 05	5 37 39.68	10 55 30	-23 45				434023
11529	VILLA DOLORES*BN. ARG.	9011	12 05	7 42 49.94	13 36 00	-54 55				434023
55512	BLAGOVESHCHENSK. USSR	1010	12 05	8 38 02.4	20 02 00	15 30				845009
55513	BLAGOVESHCHENSK. USSR	1010	12 05	8 41 22.4	0 04 00	28 36				845009
36343	OITA. JAPAN	0239	12 05	8 45 37	5 08	47				845002
36344	YATSUSHIRO. JAPAN	0272	12 05	8 47 45			52 30	7 54		845302
55511	KOMSOVOLSK. USSR	1025	12 05	8 48 06.4	3 41 24	13 18				845009
36345	MIYAZAKI. JAPAN	0230	12 05	8 48 13.2	5 26	35 42				845002
36122	TAIPEI. TAIWAN	0502	12 05	10 41 21.7	14 48	76 00				845042
36375	BAGUIO CITY. PH. IS.	0504	12 05	10 42 40.2			0 07 48	4 10 48		845302
55510	ICHITA. USSR	1064	12 05	10 43 20.3	1 52 06	20 42				845009
36376	BAGUIO CITY. PH. IS.	0504	12 05	10 44 02.5			10 15 36	4 52 12		845302
36347	YATSUSHIRO. JAPAN	0272	12 05	10 44 40			0 00	33 18		845302
36346	KANAYA MACHI. JAPAN	0220	12 05	10 45 36	23 45	83				845002
36377	BAGUIO CITY. PH. IS.	0504	12 05	10 45 40.0			19 41 24	4 46 12		845302
36348	MIYAZAKI. JAPAN	0230	12 05	10 45 51.3	5 20	79 00				845002
36349	MIYAZAKI. JAPAN	0230	12 05	12 43 23.5	19 50 00	42 06				845002
55507	SAMARKAND. USSR	1043	12 05	14 33 46.0	3 45 18	32 00				845009
55464	EREVAN. USSR	1018	12 05	14 34 19.2	1 32 54	72 42				845009
55465	EREVAN. USSR	1018	12 05	14 34 47.7	2 30 00	68 00				845009
55508	SAMARKAND. USSR	1043	12 05	14 40 41.1	17 43 48	55 00				845009
11520	WOOMERA*BN. AUSTR.	9003	12 05	15 19 08.74	9 16 06	-3 58				434013
55622	SPETSAL. GR.	8078	12 05	16 26 00.6			111 55 48	10 31 48		834309
55910	POTSDAM	2729	12 05	16 26 31.1	18 54 18	2 30				834049
55623	SPETSAL. GR.	8078	12 05	16 27 54.6			121 07 48	19 34 48		834309
55911	POTSDAM	2729	12 05	16 28 04.1	19 51 42	9 27				834049
36123	BERLIN. GER.	0700	12 05	16 28 13.2			227 06	39 00		845303
55624	SPETSAL. GR.	8078	12 05	16 28 35.6			125 41 24	23 16 12		834309
55625	SPETSAL. GR.	8078	12 05	16 29 18.6			131 30 36	27 40 24		834309
55626	SPETSAL. GR.	8078	12 05	16 30 02.6			138 31 00	31 34 12		834309
55912	POTSDAM	2729	12 05	16 30 17.4	22 04 00	19 52				834049
55470	LVOV. USSR	1031	12 05	16 30 19.0	18 40 30	38 18				845009
36124	BERLIN. GER.	0700	12 05	16 31 16.2			159 36	58 12		845303
55627	SPETSAL. GR.	8078	12 05	16 31 42.1			161 49 48	39 33 00		834309
55913	POTSDAM	2729	12 05	16 32 26.2	0 29 48	21 28				834049
55628	SPETSAL. GR.	8078	12 05	16 32 29.1			175 19 12	41 19 48		834309
55629	SPETSAL. GR.	8078	12 05	16 33 08.6			186 10 12	41 22 48		834309
36125	BERLIN. GER.	0700	12 05	16 33 50.6			105 48	33 42		845303
55914	POTSDAM	2729	12 05	16 34 12.3	1 56 18	18 24				834049
55630	SPETSAL. GR.	8078	12 05	16 34 52.6			212 49 48	36 24 00		834309
55631	SPETSAL. GR.	8078	12 05	16 35 47.6			222 41 24	32 17 24		834309
55463	ODESSA. USSR	1036	12 05	16 36 04.2	2 00 00	42 06				845009
55632	SPETSAL. GR.	8078	12 05	16 36 30.6			228 43 48	28 56 24		834309
55466	SAMARKAND. USSR	1043	12 05	16 36 56.5	4 00 54	33 42				845009
55633	SPETSAL. GR.	8078	12 05	16 37 14.6			233 51 00	25 34 12		834309
55467	SAMARKAND. USSR	1043	12 05	16 38 02.9	20 32 00	36 24				845009
11580	WOOMERA*BN. AUSTR.	9003	12 05	17 20 25.18	7 25 12	-31 56				434023
55915	POTSDAM	2729	12 05	18 28 41.9	19 32 18	12 08				834049
55634	SPETSAL. GR.	8078	12 05	18 29 03.7			122 15 36	6 58 48		834309
36126	BERLIN. GER.	0700	12 05	18 29 41.4			258 42	28 06		845303
55916	POTSDAM	2729	12 05	18 30 19.4	20 25 15	17 02				834049
55635	SPETSAL. GR.	8078	12 05	18 30 47.7			125 37 12	14 38 24		834309
55636	SPETSAL. GR.	8078	12 05	18 31 26.7			127 15 36	17 56 24		834309
55917	POTSDAM	2729	12 05	18 32 07.9	21 51 18	21 02				834049
36672	BOCHUM. GER.	8599	12 05	18 32 11.3	22 41 46	26 25				845042
55637	SPETSAL. GR.	8078	12 05	18 32 15.2			129 43 48	22 43 48		834309
36673	BOCHUM. GER.	8599	12 05	18 32 26.9	23 01 16	27 00				845042
55638	SPETSAL. GR.	8078	12 05	18 33 36.7			135 16 48	31 42 36		834309
36127	BERLIN. GER.	0700	12 05	18 33 41.3			206 54	56 30		845303
55918	POTSDAM	2729	12 05	18 34 13.2	23 59 36	20 30				834049
55639	SPETSAL. GR.	8078	12 05	18 34 17.2			139 16 12	36 58 48		834309
55640	SPETSAL. GR.	8078	12 05	18 35 02.7			145 10 48	43 16 12		834309
36128	BERLIN. GER.	0700	12 05	18 35 19.1			167 12	54 06		845303
36674	BOCHUM. GER.	8599	12 05	18 35 40.0	2 10	18				845042
55919	POTSDAM	2729	12 05	18 35 40.3	1 22 36	16 00				834049
36143	FT. BELVOIR. VA.	0077	12 05	22 21 14.8			330 00	46 48		845302
36144	FT. BELVOIR. VA.	0077	12 05	22 23 51.0			46 54	30 06		845302

OBS NO	STATION	STA NO	DATE	TIME	H. A.	DECL.	AZIMUTH	ALTITUDE	RANGE	INDEX
36145	FT. BELVOIR, VA.	0077	12 06	0 19 52.3			299 12	14 40		845302
36689	STATE COLLEGE, PA.	8603	12 06	0 27 40.6			32 18	62 48		845302
11530	ORGAN PASS, BN, N.M.	9001	12 06	2 24 01.60	21 45 00	89 22				845013
36129	SAN JOSE, CAL.	8573	12 06	2 25 22.9	5 03 33	40 40				845002
36146	SACRAMENTO, CAL.	8517	12 06	4 21 36.5	19 57 06	49 44				841013
36147	SACRAMENTO, CAL.	8517	12 06	4 23 13.1	21 39 18	58 04				841013
11531	VILLA DOLORES-BN, ARG	9011	12 06	5 02 16.56	9 40 42	-8 40				845013
11532	VILLA DOLORES-BN, ARG	9011	12 06	7 05 18.80	8 12 48	-48 15				845023
11525	AREQUIPA-BN, PERU	9007	12 06	7 06 22.97	11 58 24	-67 58				845023
11533	VILLA DOLORES-BN, ARG	9011	12 06	7 09 35.96	12 09 48	-53 18				845023
36350	HIGASHIMATSUYAMA, JAP	0210	12 06	8 10 48.0			0 00	37 18		845303
11537	TOKYO-BN, JAPAN	9005	12 06	8 10 53.40	1 05 00	88 37				845013
55474	ICHITA, USSR	1064	12 06	10 06 35.0	20 02 00	16 00				845009
55453	KANAYA MACHI, JAPAN	0220	12 06	10 10 02	17 25	53				845002
36352	YOKKAICHI, JAPAN	0258	12 06	10 10 36	17 45	54				845002
36378	BAGUIO CITY, PH. IS.	0504	12 06	10 11 17.5			4 15 00	3 36 00		845302
55475	ICHITA, USSR	1064	12 06	10 12 00.4	1 51 06	19 30				845009
36354	SAPPORO, JAPAN	0245	12 06	10 12 25	20 14	45 24				845002
36356	YATSUSHIRO, JAPAN	0272	12 06	10 12 47			0 00	51 30		845302
36358	KAGOSHIMA, JAPAN	0218	12 06	10 12 47	14 15	87 48				845002
36379	BAGUIO CITY, PH. IS.	0504	12 06	10 12 54.7			13 46 48	3 41 24		845302
36380	BAGUIO CITY, PH. IS.	0504	12 06	10 14 25.1			22 21 00	3 08 24		845302
11560	TOKYO-BN, JAPAN	9005	12 06	10 15 14.80	1 28 30	76 54				845013
36351	KONKO, JAPAN	0224	12 06	10 15 50.4	5 00 00	62 12				845002
36357	MIYAZAKI, JAPAN	0230	12 06	10 15 51.6	5 41 36	61 12				845002
36355	OITA, JAPAN	0239	12 06	10 18 01	0 30	88				845002
36381	BAGUIO CITY, PH. IS.	0504	12 06	12 11 49.7			342 07 48	4 28 48		845302
36360	KAGOSHIMA, JAPAN	0218	12 06	12 12 59	19 41	50 30				845002
36359	MIYAZAKI, JAPAN	0230	12 06	12 13 25.6	19 57 00	50 36				845002
55485	SAMARKAND, USSR	1043	12 06	14 03 23.4	17 41 36	49 06				845009
55486	SAMARKAND, USSR	1043	12 06	14 03 53.5	18 00 24	53 44				845009
55492	KAZAN, USSR	1076	12 06	14 04 01.4	23 37 00	11 54				845009
55487	SAMARKAND, USSR	1043	12 06	14 04 17.4	15 50 18	55 14				845009
55493	KAZAN, USSR	1076	12 06	14 04 46.0	0 17 00	11 48				845009
55488	SAMARKAND, USSR	1043	12 06	14 05 13.0	19 41 36	71 00				845009
11534	WOOMERA-BN, AUSTP.	9003	12 06	14 50 41.23	10 02 36	-12 02				845013
55641	SPETSAL, GR.	8078	12 06	15 15 16.2			113 36 00	15 10 14		845309
55642	SPETSAL, GR.	8078	12 06	15 58 01.2			133 39 36	29 36 24		845309
55483	ICHERNOVITSY, USSR	1062	12 06	15 59 25.3	20 17	34 48				845009
55643	SPETSAL, GR.	8078	12 06	15 59 46.4			157 51 00	38 46 48		845309
55484	ICHERNOVITSY, USSR	1062	12 06	16 00 57.0	21 40 00	41 12				845009
55644	SPETSAL, GR.	8078	12 06	16 03 34.2			217 05 24	34 55 12		845309
55478	KRYM, USSR	1028	12 06	16 03 35.2	23 45 30	58 42				845009
55480	KRASNOJAR, USSR	1027	12 06	16 03 56.5	22 34	55 54				845009
55645	SPETSAL, GR.	8078	12 06	16 04 59.2			229 21 36	25 57 36		845309
55646	SPETSAL, GR.	8078	12 06	16 06 12.2			236 26 24	20 34 12		845309
55476	ROSTOV, USSR	1041	12 06	16 06 50.7	20 55 30	41 06				845009
55481	ODESSA, USSR	1036	12 06	16 07 07.1	3 35 06	24 12				845009
55482	ODESSA, USSR	1036	12 06	16 07 30.7	3 42 54	22 54				845009
55479	KRYM, USSR	1028	12 06	16 07 44.6	3 58 30	26 42				845009
55489	SAMARKAND, USSR	1043	12 06	16 07 52.9	20 58 54	43 00				845009
55477	ROSTOV, USSR	1041	12 06	16 09 30.7	2 42 00	31 18				845009
36148	ADELAIDE, AUSTP.	8596	12 06	16 48 15			359 50	69 15		845302
11535	WOOMERA-BN, AUSTP.	9003	12 06	16 48 47.24	7 39 18	-28 25				845023
36149	ADELAIDE, AUSTP.	8596	12 06	16 56 03.4			117 45	34		845302
36150	ADELAIDE, AUSTP.	8596	12 06	17 00 58.8			122 50	11 20		845302
55336	BESANCON, FR.	2727	12 06	17 54 11.61			274 18	12 13		845309
55337	BESANCON, FR.	2727	12 06	17 55 06.94			274 25	17 07		845309
55338	BESANCON, FR.	2727	12 06	17 56 07.34			274 35	23 55		845309
55339	BESANCON, FR.	2727	12 06	17 57 05.79			274 41	31 48		845309
55340	BESANCON, FR.	2727	12 06	17 58 13.98			274 47	43 40		845309
55190	MELDON, FR.	2715	12 06	17 58 06.48			255 42	61 40		845309
55341	BESANCON, FR.	2727	12 06	17 59 00.85			274 45	53 57		845309
55191	MELDON, FR.	2715	12 06	17 59 14.0			249 43	68 46		845309
55647	SPETSAL, GR.	8078	12 06	17 59 53.2			128 11 24	18 24 36		845309
55192	MELDON, FR.	2715	12 06	18 00 10.0			200 36	81 06		845309
55342	BESANCON, FR.	2727	12 06	18 00 14.49			274 60	73 35		845309
55648	SPETSAL, GR.	8078	12 06	18 00 41.2			131 10 48	22 52 12		845309
55648	SPETSAL, GR.	8078	12 06	18 01 26.2			134 45 36	27 40 12		845309
55343	BESANCON, FR.	2727	12 06	18 01 26.48			101 05	85 01		845309
55650	SPETSAL, GR.	8078	12 06	18 02 08.4			138 57 00	32 38 24		845309
55344	BESANCON, FR.	2727	12 06	18 02 12.82			98 00	72 05		845309
55490	LVOV, USSR	1031	12 06	18 02 39.7	21 42 30	25 48				845009
55345	BESANCON, FR.	2727	12 06	18 03 19.23			197 07	56 21		845309
55651	SPETSAL, GR.	8078	12 06	18 03 48.2			155 00 00	45 38 24		845309
55346	BESANCON, FR.	2727	12 06	18 04 11.71			97 02	46 25		845309
36475	BOCHUM, GER.	8599	12 06	18 04 19.3	2 20	16				845042
55652	SPETSAL, GR.	8078	12 06	18 04 28.2			165 13 48	50 37 48		845309
55347	BESANCON, FR.	2727	12 06	18 05 07.21			97 05	38 03		845309
55653	SPETSAL, GR.	8078	12 06	18 05 14.2			180 49 12	55 07 12		845309
55491	LVOV, USSR	1031	12 06	18 05 20.9	0 38 30	21 48				845009
11936	WOOMERA-BN, AUSTP.	9003	12 06	18 49 03.97	4 29 06	-31 28				845023
36151	ADELAIDE, AUSTP.	8596	12 06	18 56 52.4			174 30	51 45		845302
36676	BOCHUM, GER.	8599	12 06	19 57 13.3	19 00 58	12 12				845042
36677	BOCHUM, GER.	8599	12 06	19 59 22.7	20 36 48	14 12				845042
36678	BOCHUM, GER.	8599	12 06	20 00 28.1	20 40 20	14 24				845042
36679	BOCHUM, GER.	8599	12 06	20 02 52.7	22 56 44	13 33				845042
36680	BOCHUM, GER.	8599	12 06	20 03 07.7	23 20	13 30				845042
36152	KANSAS CITY, MO.	0036	12 06	21 46 28.6			343	75 04		845303
56110	MADISON-P, WISC.	5078	12 06	23 58 05.0	4 12 24	22 06				637087
36153	SACRAMENTO, CAL.	8517	12 07	1 48 49.8			0 00	45 13		841304
36130	SAN JOSE, CAL.	8573	12 07	1 49 07.4	1 54 15	85 04				845002

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36131	SAN JOSE, CAL.	8973	12 07	1 34 42.0	4 54 15	33 21				845002
36154	PUEBLA, MEX.	0900	12 07	1 54 52.6	13 11 18	81 18				845013
36155	PUEBLA, MEX.	0900	12 07	1 56 27.0	8 43 24	79 58				845013
11538	VILLA DOLORES, BN, ARG	9011	12 07	4 28 47.45	8 24 00	1 10				434013
11539	VILLA DOLORES, BN, ARG	9011	12 07	4 34 50.83	10 30 00	-18 48				434013
11540	VILLA DOLORES, BN, ARG	9011	12 07	6 28 40.07	5 32 18	-13 36				434013
11541	VILLA DOLORES, BN, ARG	9011	12 07	4 34 12.96	9 81 00	-46 42				434023
36365	YATSUSHIRO, JAPAN	0272	12 07	9 41 55			0 00	29 06		845304
36363	YOKKAICHI, JAPAN	0254	12 07	9 42 09	22 50	84				845002
11561	TOKYO, BN, JAPAN	9005	12 07	9 43 12.20	1 24 00	80 42				434013
36364	SAPPORO, JAPAN	0245	12 07	9 43 38	0 46	54 36				845002
36361	MITAKA, JAPAN	0229	12 07	9 43 56.10			342 00	43 00		845302
36367	KAGOSHIMA, JAPAN	0218	12 07	9 45 31	5 37	47 12				845002
36362	KONKO, JAPAN	0224	12 07	9 45 39.0	5 10 30	46 12				845002
36368	MIYAZAKI, JAPAN	0230	12 07	9 45 41.6	5 35 00	46 36				845002
36369	YATSUSHIRO, JAPAN	0272	12 07	11 41 46			230 00	27 06		845302
36382	BAGUIO CITY, PH. IS.	0504	12 07	11 42 19			355 40 12	8 40 48		845302
36371	KAGOSHIMA, JAPAN	0218	12 07	11 42 08	20 04	62 00				845002
36368	YOKKAICHI, JAPAN	0254	12 07	11 43 02	20 32	46				845002
36370	MIYAZAKI, JAPAN	0230	12 07	11 43 10.8	20 22	61 12				845002
11543	WOOMERA, BN, AUSTR.	9003	12 07	16 15 55.89	7 14 12	-18 31				434013
55348	BESANCON, FR.	2727	12 07	17 21 01.16			271 27	5 36		834309
55349	BESANCON, FR.	2727	12 07	17 22 00.13			271 41	9 59		834309
55350	BESANCON, FR.	2727	12 07	17 23 14.72			271 56	16 35		834309
55353	GENEVE, SWITZERLAND	2728	12 07	17 23 24.73			275 17	17 24		834309
55354	GENEVE, SWITZERLAND	2728	12 07	17 24 05.75			275 53	21 51		834309
55351	BESANCON, FR.	2727	12 07	17 24 38.55			272 13	22 28		834309
55352	BESANCON, FR.	2727	12 07	17 25 01.17			272 28	29 10		834309
55355	GENEVE, SWITZERLAND	2728	12 07	17 25 07.36			277 05	29 20		834309
55356	GENEVE, SWITZERLAND	2728	12 07	17 26 10.36			279 02	40 29		834309
55353	BESANCON, FR.	2727	12 07	17 26 17.05			272 20	42 19		834309
55193	MEUDON, FR.	2715	12 07	17 26 39.11			255 12	58 46		837109
55357	GENEVE, SWITZERLAND	2728	12 07	17 27 04.15			281 58	54 55		834309
55354	BESANCON, FR.	2727	12 07	17 27 07.01			273 22	55 28		834309
55194	MEUDON, FR.	2715	12 07	17 27 10.1			249 34	65 54		837109
55195	MEUDON, FR.	2715	12 07	17 28 06.6			211 08	80 05	0	837109
55358	GENEVE, SWITZERLAND	2728	12 07	17 28 09.68			291 24	69 00		834309
55355	BESANCON, FR.	2727	12 07	17 28 12.42			274 52	71 28		834309
55356	BESANCON, FR.	2727	12 07	17 29 18.61			80 37	88 15		834309
55357	GENEVE, SWITZERLAND	2728	12 07	17 29 23.95			26 11	82 37		834309
55357	GENEVE, SWITZERLAND	2728	12 07	17 30 01.04			67 53	74 29		834309
55357	BESANCON, FR.	2727	12 07	17 30 06.15			91 36	73 04		834309
55358	BESANCON, FR.	2727	12 07	17 31 03.17			94 14	59 11		834309
55359	BESANCON, FR.	2727	12 07	17 31 15.06			91 49	44 49		834309
55360	BESANCON, FR.	2727	12 07	17 31 16.51			93 07	56 18		834309
55361	BESANCON, FR.	2727	12 07	17 34 03.77			93 23	69 55		834309
11542	WOOMERA, BN, AUSTR.	9003	12 07	18 21 38.28	6 14 18	-63 08				434013
55362	BESANCON, FR.	2727	12 07	19 24 16.75			284 36	8 36		834309
55363	BESANCON, FR.	2727	12 07	19 25 06.34			283 57	9 44		834309
55196	MEUDON, FR.	2715	12 07	19 25 26.9			277 53	19 45		837109
55197	MEUDON, FR.	2715	12 07	19 26 12.4			276 05	19 50		837109
55364	BESANCON, FR.	2727	12 07	19 26 59.20			280 30	19 41		834309
55198	MEUDON, FR.	2715	12 07	19 27 12.3			272 51	26 20		837109
55365	BESANCON, FR.	2727	12 07	19 27 52.66			279 05	27 53		834309
55366	BESANCON, FR.	2727	12 07	19 28 02.86			277 26	28 28		834309
55199	MEUDON, FR.	2715	12 07	19 28 11.8			268 04	33 56		837109
55200	MEUDON, FR.	2715	12 07	19 29 00.1			262 20	40 54		837109
55367	BESANCON, FR.	2727	12 07	19 29 12.70			272 17	35 16		834309
55201	MEUDON, FR.	2715	12 07	19 30 02.1			250 29	50 41		837109
55368	BESANCON, FR.	2727	12 07	19 30 02.68			266 30	42 31		834309
55202	MEUDON, FR.	2715	12 07	19 31 11.7			226 14	60 03		837109
55369	BESANCON, FR.	2727	12 07	19 31 35.14			248 10	57 06		834309
55203	MEUDON, FR.	2715	12 07	19 32 15.7			193 09	62 07		837109
55370	BESANCON, FR.	2727	12 07	19 32 17.43			227 36	62 29		834309
55670	BLAGOVESHCHENSK, USSR	1010	12 07	20 53 43.1	10 47 00	28 12				845009
36132	TERRE HAUTE, IND.	8127	12 07	23 22 01.0			32 15	43 45		845303
36156	SACRAMENTO, CAL.	8517	12 08	1 16 49.4			0 00	44 40		841304
36133	TERRE HAUTE, IND.	8127	12 08	1 24 48.8			0	71 30		845302
36134	TERRE HAUTE, IND.	8127	12 08	1 25 08.8			20 00	72 30		845303
36159	SAN JOSE, CAL.	8573	12 08	3 19 06.6	23 49 36	77 23				845002
36157	SACRAMENTO, CAL.	8517	12 08	3 20 54.3			0 00	59 31		841304
36160	PORTLAND, ORE.	0976	12 08	3 22 04.8	1 55 00	32				845042
36161	DENVER, COLO.	8592	12 08	3 23 03.6			291 42	55 48		845303
36158	SACRAMENTO, CAL.	8517	12 08	5 20 26.5	21 02 24	29 38				841013
11544	AREQUIPA, BN, PERU	9007	12 08	5 34 50.52	5 48 48	-42 12				434013
11548	VILLA DOLORES, BN, ARG	9011	12 08	5 59 40.27	7 17 42	-30 10				434013
11549	VILLA DOLORES, BN, ARG	9011	12 08	8 10 42.92	14 35 06	-62 47				434023
36474	MITAKA, JAPAN	0229	12 08	9 08 49.5			333 18	34 24		845303
36478	OITA, JAPAN	0239	12 08	9 08 59	11 20	87				845002
36483	HIGASHIMATSUYAMA, JAP	0210	12 08	9 09 15.9	17 48	72 06				845002
11562	TOKYO, BN, JAPAN	9005	12 08	9 09 35.20	17 55 12	75 48				434013
36480	YATSUSHIRO, JAPAN	0272	12 08	9 09 37			10 00	28 00		845302
36482	KAGOSHIMA, JAPAN	0218	12 08	9 09 49.7	6 37	77 48				845002
36475	MITAKA, JAPAN	0229	12 08	9 10 40.4			358 10	39 36		845303
36476	MITAKA, JAPAN	0229	12 08	9 10 45.56			342 00	39 54		845302
36479	OITA, JAPAN	0239	12 08	9 11 46	5 10	59				845002
36477	KASHIWARA, JAPAN	0222	12 08	9 14 07	5 03	45				845002
36481	MIYAZAKI, JAPAN	0230	12 08	9 15 22.3	5 24 30	35 12				845002
36486	KAGOSHIMA, JAPAN	0218	12 08	11 10 48.5	19 20	65 00				845002
36484	YATSUSHIRO, JAPAN	0272	12 08	11 10 52			330 00	33 24		845302
36485	MIYAZAKI, JAPAN	0230	12 08	11 12 53.4	22 59	74 00				845002
36487	MIYAZAKI, JAPAN	0230	12 08	13 10 08.5	20 30 00	29 54				845002
36162	ADELAIDE, AUSTR.	8596	12 08	13 48 34			93 40	9 30		845302
36699	ADELAIDE, AUSTR.	8528	12 08	13 49 57.5	10 08	-11 42				845002

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36165	WOOMERA, AUSTR.	0603	12 08	15 43 27.6			47 18	66 42		845302
11546	WOOMERA*BN, AUSTR.	9003	12 08	15 43 52.52	7° 23 48	-14 48				845013
36166	WOOMERA, AUSTR.	0603	12 08	15 44 52.4			75 18	61 36		845002
36167	WOOMERA, AUSTR.	0603	12 08	15 46 56.9			99 54	50 30		845302
36163	ADELAIDE, AUSTR.	8596	12 08	15 48 20			92 15	48 00		845302
36164	ADELAIDE, AUSTR.	8596	12 08	15 56 20.2			120 00	14 00		845302
55371	BESANCON, FR.	2727	12 08	16 53 21.63			269 52	32 40		834309
55372	BESANCON, FR.	2727	12 08	16 54 08.50			270 13	41 12		834309
55393	MEUDON, FR.	2715	12 08	16 54 51.10			248 32	61 25		637109
55373	BESANCON, FR.	2727	12 08	16 55 00.65			270 53	53 03		834309
55394	MEUDON, FR.	2715	12 08	16 55 04.80			245 19	65 13		637109
55395	MEUDON, FR.	2715	12 08	16 56 01.70			203 48	79 39		637109
55374	BESANCON, FR.	2727	12 08	16 56 08.71			272 54	71 36		834309
55396	MEUDON, FR.	2715	12 08	16 57 05.80			115 57	71 54		637109
55375	BESANCON, FR.	2727	12 08	16 57 08.58			62 19	67 41		834309
55397	MEUDON, FR.	2715	12 08	16 58 09.60			100 46	59 45		637109
55376	BESANCON, FR.	2727	12 08	16 58 13.26			87 37	68 11		834309
55398	MEUDON, FR.	2715	12 08	16 59 05.80			96 27	44 25		637109
55377	BESANCON, FR.	2727	12 08	16 59 07.01			88 55	44 41		834309
55378	BESANCON, FR.	2727	12 08	17 00 17.51			89 31	41 15		834309
55399	MEUDON, FR.	2715	12 08	17 00 23.70			93 48	51 39		637109
55379	BESANCON, FR.	2727	12 08	17 01 01.05			99 48	54 50		834309
55920	RODEWISCH, GER.	2733	12 08	17 01 10.8	1 53 47	20 00				834009
55400	MEUDON, FR.	2715	12 08	17 01 12.40			92 40	47 01		637109
55380	BESANCON, FR.	2727	12 08	17 01 39.78			90 00	50 01		834309
55381	BESANCON, FR.	2727	12 08	17 02 09.43			90 11	46 44		834309
55401	MEUDON, FR.	2715	12 08	17 02 10.70			92 08	41 24		637109
55382	BESANCON, FR.	2727	12 08	17 03 02.63			90 25	41 43		834309
55921	RODEWISCH, GER.	2733	12 08	17 03 52.0	3 11 24	4 00				834009
55383	BESANCON, FR.	2727	12 08	17 04 12.27			93 43	16 13		834309
11547	WOOMERA*BN, AUSTR.	9003	12 08	17 48 39.98	5 57 48	-57 55				845013
55384	BESANCON, FR.	2727	12 08	18 54 49.36			180 36	46 46		834309
55385	BESANCON, FR.	2727	12 08	18 55 49.11			179 25	44 57		834309
55386	BESANCON, FR.	2727	12 08	18 56 16.41			277 07	48 43		834309
55387	BESANCON, FR.	2727	12 08	18 57 09.00			273 27	50 49		834309
55388	BESANCON, FR.	2727	12 08	18 58 16.93			266 55	47 39		834309
55389	BESANCON, FR.	2727	12 08	18 59 05.71			255 34	56 42		834309
56052	POTSDAM, GER.	2729	12 08	19 00 01.6	12 43 40	19 00				834009
55390	BESANCON, FR.	2727	12 08	19 00 01.78			212 17	66 01		834309
55391	BESANCON, FR.	2727	12 08	19 01 01.28			195 41	68 31		834309
56063	POTSDAM, GER.	2729	12 08	19 01 55.3	0 05 54	5 41				834009
55392	BESANCON, FR.	2727	12 08	19 02 13.58			154 44	59 47		834309
36168	N. CANTON, OHIO	8544	12 05	12 56 05	4 17 30	12 23				845012
36171	SACRAMENTO, CAL.	8517	12 09	0 44 37.7				44 44		845004
36173	DENVER, COLO.	8592	12 09	0 48 33.5				50 34		845005
36174	KANSAS CITY, MO.	0036	12 09	0 48 34.6			314 54	40 30		845005
36169	N. CANTON, OHIO	8572	12 09	0 48 51.7	10 42	27 46				845004
36175	KANSAS CITY, MO.	0036	12 09	0 51 33.2			16 50	55 00		845005
36176	TERRE HAUTE, IND.	8127	12 09	0 52 21.8				64 15		845001
56131	MADISON, WIS.	5078	12 09	0 54 58.5	3 14 00	15 00				837007
36170	N. CANTON, OHIO	8572	12 09	0 55 04.4	1 13	41 17				845004
36172	SACRAMENTO, CAL.	8517	12 09	1 48 31.2				54 44		845004
36490	YOKKAICHI, JAPAN	0258	12 09	8 47 01			147 42	5 48		845001
36491	KANAYA MACHI, JAPAN	0220	12 09	8 47 41	8 00	41				845001
36492	TARADA, JAPAN	0250	12 09	8 48 13	23 56	81				845001
11563	TOKYO*BN, JAPAN	9005	12 09	9 38 21.30	43 18 00	57 52				845013
36488	MITAKA, JAPAN	0229	12 09	9 45 50.2			10 54	50 00		845003
36494	KAGOSHIMA, JAPAN	0218	12 09	8 41 08	5 00	47 16				845004
36493	OITA, JAPAN	0239	12 09	8 42 21	5 00	44				845004
36489	MITAKA, JAPAN	0229	12 09	8 41 48.1			10 54	51 16		845003
36179	HSINGCHU CITY, TAIWAN	0505	12 09	10 46 27.6	15 47	71 00				845004
36495	MITAKA, JAPAN	0229	12 09	10 39 37.5			10 54	44 41		845003
36496	OITA, JAPAN	0239	12 09	10 43 29	21 19	76				845004
36497	YATSUSHIRO, JAPAN	0272	12 09	10 46 46			1 19	45 26		845001
36498	KAGOSHIMA, JAPAN	0218	12 09	10 48 56.5	1 05	79 44				845001
85383	BAGUIO CITY, PHIL.	0504	12 09	10 41 50.5			13 15 00	7 12 24		845004
36180	HSINGCHU CITY, TAIWAN	0505	12 09	10 41 59.5						845004
11551	WOOMERA*BN, AUSTR.	9003	12 09	15 10 50.27	7 05 46	-6 02				845013
36181	WOOMERA, AUSTR.	0603	12 09	15 16 25.0			108 36	50 40		845004
36182	WOOMERA, AUSTR.	0603	12 09	15 17 59.5			112 14	47 50		845004
11556	SAN FERNANDO*BN, SP.	9004	12 09	18 26 20.40	2 21 30	80 51				845013
11557	SAN FERNANDO*BN, SP.	9004	12 09	18 28 20.20	23 15 54	44 50				845013
36183	EVANSTON, ILL.	0149	12 10	0 16 48.8	18 46	47 10				845012
36177	TERRE HAUTE, IND.	8127	12 10	0 19 47.3				60 00		845001
36184	STATE COLLEGE, PA.	8594	12 10	0 20 50.1			312 18	51 14		845001
36185	CINCINNATI, OHIO	0050	12 10	0 20 58.7			16 42	61 24		845002
36187	N. CANTON, OHIO	8536	12 10	0 21 21.1	0 28 25	53 42				845003
36188	DAYTON, OHIO	8557	12 10	0 22 00.7			10 37	61 40		845003
36189	N. CANTON, OHIO	8559	12 10	0 23 37.7	3 18	22 34				845004
56132	MADISON, WIS.	5078	12 10	0 24 25.0	3 12 40	4 41				837007
36190	SAN JOSE, CAL.	8572	12 10	2 13 04.0	17 31 40	59 11				845002
36193	SACRAMENTO, CAL.	8517	12 10	2 15 59.9				56 40		845004
36191	SAN JOSE, CAL.	8573	12 10	2 16 53.4	2 16 48	66 57				845002
36192	SAN JOSE, CAL.	8573	12 10	2 19 00.9	4 11 47	48 18				845002
36196	PUEBLA, MEX.	0900	12 10	2 21 36.4	17 58 30	79 24				845013
36186	CINCINNATI, OHIO	0050	12 10	2 21 44.8			274 18	43 80		845002
36388	CHINA LAKE, CAL.	8588	12 10	2 21 46.6			76 18 12	50 34 30		845013
36866	ALBUQUERQUE, N.M.	8534	12 10	2 22 01.6	1 32 24	47 00				845042
36194	SACRAMENTO, CAL.	8517	12 10	4 18 31.8	22 11 30	98 18				845013
36195	SACRAMENTO, CAL.	8517	12 10	4 19 20.0	23 06 24	56 14				845013
11571	VILLA DOLORES*BN, ARG	9011	12 10	4 54 32.68	7 16 00	-18 58				845013
11569	AREQUIPA*BN, PERU	9007	12 10	6 54 01.35	3 25 48	-57 36				845023
36499	MITAKA, JAPAN	0229	12 10	8 05 30.7			313 24	54 44		845013

OBS NO	STATION	STA NO	OATE	TIME	R. A.	DECL.	AZIMUTH	ALTITUDE	RANGE	INCL
36504	HIGASHIMATSUYAMA, JAP	0210	12 10	8 05 53.1			0 00	36 30		845303
36500	MITAKA, JAPAN	0229	12 10	8 06 43.1			12 30	35 36		845303
36501	MITAKA, JAPAN	0229	12 10	8 07 31.5			24 42	34 24		845303
36502	SAPPORO, JAPAN	0245	12 10	8 07 43	1 48	55				845002
36503	TAKADA, JAPAN	0250	12 10	8 10 28	4 20	39				845002
36513	KAGOSHIMA, JAPAN	0218	12 10	10 07 55	22 40	85 30				845002
36197	TAIPEI, TAIWAN	0502	12 10	10 08 14.5	6 22	89 24				845042
11564	TOKYO'BN, JAPAN	9005	12 10	10 08 41.70	21 02 36	62 08				434013
36384	BAGUIO CITY, PH.IS.	0504	12 10	10 09 10.6			22 28 48	6 49 48		845302
36505	MITAKA, JAPAN	0229	12 10	10 09 42.8			339 34	58 12		845303
36512	SAPPORO, JAPAN	0245	12 10	10 09 53	23 33	32				845002
36198	TAIPEI, TAIWAN	0502	12 10	10 10 01.1	5 52	55 30				845042
36510	KASHIWABARA, JAPAN	0222	12 10	10 10 08	2 00	65				845002
36385	BAGUIO CITY, PH.IS.	0504	12 10	10 10 21.1			29 55 48	6 43 12		845302
36506	MITAKA, JAPAN	0229	12 10	10 10 30.63			342 00	65 36		845302
36507	MITAKA, JAPAN	0229	12 10	10 10 50.3			11 18	67 42		845303
36386	BAGUIO CITY, PH.IS.	0504	12 10	10 11 35.1			37 17 24	6 10 12		845302
36509	KONKO, JAPAN	0224	12 10	10 11 51.3	4 05 00	42 18				845002
36508	MITAKA, JAPAN	0229	12 10	10 11 52.0			53 12	67 24		845302
36387	BAGUIO CITY, PH.IS.	0504	12 10	12 08 00.4			341 27 36	11 28 12		845302
36514	MIYAZAKI, JAPAN	0230	12 10	12 09 15.6	21 10 00	38 18				845002
11566	NAINI TAL'BN, INDIA	9006	12 10	14 02 34.39	18 21 30	68 17				434013
11567	NAINI TAL'BN, INDIA	9006	12 10	14 03 49.42	20 16 00	77 17				434013
11568	NAINI TAL'BN, INDIA	9006	12 10	14 06 28.46	3 27 12	65 45				434013
36199	SYDNEY, AUSTR.	0602	12 10	14 39 09	5 30 30	-2 12				845049
36200	SYDNEY, AUSTR.	0602	12 10	14 41 40.5	6 42	-17 18				845049
36201	SYDNEY, AUSTR.	0602	12 10	14 43 12.5	7 34	-45 54				845049
55952	BRATISLAVA'P, CZECH.	5702	12 10	15 57 33.4	2 00 30	25 45				845042
55421	SAMARKAND, USSR	1043	12 10	16 00 47.7	20 18 48	27 54				845009
55422	SAMARKAND, USSR	1043	12 10	16 02 00.5	21 05 00	27 54				845009
55423	SAMARKAND, USSR	1043	12 10	16 03 16.3	22 00 18	26 24				845009
11570	SHIRAZ'BN, IRAN	9008	12 10	16 03 55.30	2 20 24	68 08				434013
55424	SAMARKAND, USSR	1043	12 10	16 03 59.5	22 35 30	24 18				845009
36202	SYDNEY, AUSTR.	0602	12 10	16 43 33	5 18	-34 06				845049
36203	SYDNEY, AUSTR.	0602	12 10	16 48 32.6	7 17	-67 42				845049
36204	SYDNEY, AUSTR.	0602	12 10	16 52 09.5	12 39	-65 30				845049
11558	SAN FERNANDO'BN, SP.	9004	12 10	19 58 35.90	1 31 00	44 58				434013
55671	BLAGOVESHCHENSK, USSR	1010	12 10	20 57 27.1	10 41 00	5 48				845009
55672	BLAGOVESHCHENSK, USSR	1010	12 10	20 58 00.3	11 17 00	1 36				845009
55673	VLADISVOSTOK, USSR	1013	12 10	20 58 13.7	9 39 18	50 54				845009
55674	VLADISVOSTOK, USSR	1013	12 10	20 58 55.5	11 56 42	43 00				845009
36208	FORT WORTH, TEX.	0839	12 11	1 47 48	20 32 48	69 12				845013
36209	PUEBLA, MEX.	0900	12 11	1 49 16.7	10 41 00	88 30				845013
36516	HIGASHIMATSUYAMA, JAP	0210	12 11	7 33 15.4			0 00	34 42		845303
36515	MITAKA, JAPAN	0229	12 11	7 33 43.7			7 00	33 48		845303
55427	TCHITA, USSR	1064	12 11	9 29 18.3	19 47 48	19 24				845009
55425	BLAGOVESHCHENSK, USSR	1010	12 11	9 31 59.6	20 20 00	24 00				845009
55426	BLAGOVESHCHENSK, USSR	1010	12 11	9 33 11.7	21 43 00	25 24				845009
55428	TCHITA, USSR	1064	12 11	9 33 30.6	0 41 54	16 24				845009
36527	KAGOSHIMA, JAPAN	0218	12 11	9 34 31	16 53	82 14				845002
36523	KANAYA MACHI, JAPAN	0220	12 11	9 34 46	16 45	71				845002
36526	MIYAZAKI, JAPAN	0230	12 11	9 35 31.9	1 00	87 30				845002
36525	YATSUSHIRO, JAPAN	0272	12 11	9 36 38			20 00	37 42		845302
36528	HIGASHIMATSUYAMA, JAP	0210	12 11	9 37 31.6			0 00	36 48		845303
36517	MITAKA, JAPAN	0229	12 11	9 37 32.2			10 06	57 30		845303
36524	TAKADA, JAPAN	0250	12 11	9 37 48	1 22	60				845002
36518	MITAKA, JAPAN	0229	12 11	9 38 19.6			23 00	60 42		845303
11565	TOKYO'BN, JAPAN	9005	12 11	9 38 52.70	2 23 54	54 00				434013
36522	KASHIWABARA, JAPAN	0222	12 11	9 39 57	4 00	39				845002
36521	YOKKAICHI, JAPAN	0258	12 11	9 41 14	4 15	27				845002
36520	KONKO, JAPAN	0224	12 11	9 41 16.0	4 33 00	45 00				845002
36519	MITAKA, JAPAN	0229	12 11	9 41 16.2			83 34	44 24		845303
36389	BAGUIO CITY, PH.IS.	0504	12 11	11 35 33			345 21 00	10 27 36		845302
36533	KANAYA MACHI, JAPAN	0220	12 11	11 36 38	20 44	34				845002
36529	MITAKA, JAPAN	0229	12 11	11 37 03.4			286 12	23 42		845303
36390	BAGUIO CITY, PH.IS.	0504	12 11	11 37 13.2			354 36 36	16 08 24		845302
36530	MITAKA, JAPAN	0229	12 11	11 38 10.0			279 54	30 18		845303
36531	MITAKA, JAPAN	0229	12 11	11 38 42.0			276 00	33 42		845303
36532	YOKKAICHI, JAPAN	0258	12 11	11 38 44	22 12	28				845002
55433	TASHKENT, USSR	1052	12 11	13 26 11.5	18 32 00	46 12				845009
55429	SAMARKAND, USSR	1043	12 11	13 26 15.9	17 41 18	52 36				845009
55430	SAMARKAND, USSR	1043	12 11	13 27 58.7	19 14 00	71 48				845009
55434	TASHKENT, USSR	1052	12 11	13 29 46.0	0 20 00	59 30				845009
55435	TASHKENT, USSR	1052	12 11	13 30 04.0	0 50 00	58 00				845009
11586	NAINI TAL'BN, INDIA	9006	12 11	13 30 19.98	17 39 24	74 07				434013
11587	NAINI TAL'BN, INDIA	9006	12 11	13 32 54.57	3 16 48	76 46				434013
11588	NAINI TAL'BN, INDIA	9006	12 11	13 35 51.67	4 35 48	43 44				434013
36205	SYDNEY, AUSTR.	0602	12 11	14 07 46.1	6 13	-6 30				845049
36206	SYDNEY, AUSTR.	0602	12 11	14 09 24.0	7 02	-15 42				845049
36207	SYDNEY, AUSTR.	0602	12 11	14 10 54.5	7 52 30	-23 18				845049
11553	WOOMERA'BN, AUSTR.	9003	12 11	14 11 35.74	9 25 18	-22 11				434013
36213	TOWNSVILLE, AUSTR.	8578	12 11	14 11 50.3			137 40	28 57		845302
36214	TOWNSVILLE, AUSTR.	8578	12 11	14 12 11.5			137 37	27 16		845302
55431	BATUMI, USSR	1009	12 11	15 27 46.5	0 35 00	54 18				845009
55432	BATUMI, USSR	1009	12 11	15 28 49.0	2 03 00	43 30				845009
11554	WOOMERA'BN, AUSTR.	9003	12 11	16 10 07.76	6 15 00	-45 48				434013
55402	MEUOON, FR.	2715	12 11	17 21 28.00			239 10	69 33		637109
55403	MEUOON, FR.	2715	12 11	17 22 10.40			195 19	75 41		637109
55404	MEUOON, FR.	2715	12 11	17 23 02.10			143 09	69 20		637109
55405	MEUOON, FR.	2715	12 11	17 24 18.60			120 58	52 21		637109
11555	WOOMERA'BN, AUSTR.	9003	12 11	18 16 24.35	5 45 00	-76 17				434013
11559	SAN FERNANDO'BN, SP.	9004	12 11	19 25 11.90	0 46 06	57 30				434013
36215	SACRAMENTO, CAL.	8517	12 12	1 10 32.3			0 00	44 34		641304

OBS NO	STATION	STA NO	DATE	TIME	R. A.	DECL.	AZIMUTH	ALTITUDE	RANGE	INDEX
36218	CHINA LAKE, CAL.	8588	12 12	1 12 04.6			10 57 00	37 33 36		845303
36097	ALBUQUERQUE, N.M.	8534	12 12	1 13 51.7	0 30 12	70 42				845042
36888	ALBUQUERQUE, N.M.	8534	12 12	1 14 18.4	1 56 24	64 30				845042
36210	PUEBLA, MEX.	0900	12 12	1 16 53.4	7 58 00	83 28				845013
36211	PUEBLA, MEX.	0900	12 12	1 17 16.0	6 59 30	81 14				845013
36219	NEW ORLEANS, LA.	0031	12 12	1 18 51			0	49 30		845302
36216	SACRAMENTO, CAL.	8517	12 12	3 15 07.8			0 00	84 37		641304
36212	PUEBLA, MEX.	0900	12 12	3 17 34.8			54 20			845013
36217	SACRAMENTO, CAL.	8517	12 12	5 15 10.7	21 59 54	11 04				641013
36536	YATSUSHIRO, JAPAN	0272	12 12	9 02 20			0 00	32 48		845302
36535	OITA, JAPAN	0239	12 12	9 02 31	0 00	88				845002
36537	MIYAZAKI, JAPAN	0230	12 12	9 03 15.6	4 58	81 12				845002
36534	KANAYA MACHI, JAPAN	0220	12 12	9 03 34	0 44	73				845002
36538	KAGOSHIMA, JAPAN	0218	12 12	9 07 22.5	4 46	37 30				845002
36542	KANAYA MACHI, JAPAN	0220	12 12	11 04 19	20 25	38				845002
36539	MITAKA, JAPAN	0219	12 12	11 04 32.4			289 12	26 42		845303
36544	KAGOSHIMA, JAPAN	0218	12 12	11 04 58	21 08	53 18				845002
36540	MITAKA, JAPAN	0229	12 12	11 06 31.6			276 00	41 36		845303
36541	MITAKA, JAPAN	0229	12 12	11 07 59.4			256 30	53 00		845302
36543	YATSUSHIRO, JAPAN	0272	12 12	11 08 08			0 00	84 42		845302
55514	EREVAN, USSR	1018	12 12	14 55 16.0	0 07 24	64 54				845009
11577	SHIRAZ, IRAN	9008	12 12	14 58 22.75	3 49 00	71 23				434013
55933	RODEWISCH, GER.	2733	12 12	16 47 47.6	10 48 36	18 54				834009
36634	BERLIN, GER.	0700	12 12	16 48 53.9			243 36	38 30		845301
55406	MEUDON, FR.	2715	12 12	16 49 39.20			162 22	76 52		637109
55407	MEUDON, FR.	2715	12 12	16 50 10.20			144 07	70 21		637109
36635	BERLIN, GER.	0700	12 12	16 51 05.0			200 42	51 24		845303
55408	MEUDON, FR.	2715	12 12	16 51 11.50			116 04	55 13		637109
55409	MEUDON, FR.	2715	12 12	16 52 11.50			110 13	43 05		637109
55410	MEUDON, FR.	2715	12 12	16 53 01.00			107 45	35 14		637109
36636	BERLIN, GER.	0700	12 12	16 54 33.6			141 06	33 45 00		845303
55922	POTSDAM	2729	12 12	16 55 11.0	1 38 12	1 11				834049
55923	POTSDAM	2729	12 12	16 56 14.6	2 10 18	- 2 33				834049
55924	POTSDAM	2729	12 12	16 57 19.2	2 33 06	- 5 29				834049
55925	POTSDAM	2729	12 12	16 58 27.6	2 53 06	- 8 15				834049
55926	POTSDAM	2729	12 12	16 59 32.9	3 09 12	-10 31				834049
11572	WOOMERA, AUSTR.	9003	12 12	17 43 31.45	6 17 00	-76 30				434023
55927	POTSDAM	2729	12 12	18 47 45.6	19 49 57	7 51				834049
55928	POTSDAM	2729	12 12	18 49 44.2	10 48 18	6 39				834049
55929	POTSDAM	2729	12 12	18 51 48.1	21 43 06	2 40				834049
55930	POTSDAM	2729	12 12	18 53 36.6	22 55 06	- 2 58				834049
36637	BERLIN, GER.	0700	12 12	18 54 32.0			208 18	27 12		845301
55931	POTSDAM	2729	12 12	18 55 36.8	0 15 42	-10 06				834049
36638	BERLIN, GER.	0700	12 12	18 55 53.5			194 30	25 18		845303
36639	BERLIN, GER.	0700	12 12	18 56 48.6			186 54	23 12		845303
55932	POTSDAM	2729	12 12	18 57 30.4	1 10 30	-16 12				834049
36222	DENVER, COLO.	8592	12 13	0 41 14.4			358 06	59 06		845303
36221	DENVER, COLO.	8592	12 13	0 43 29.4			63 15 00	51 30		845303
36178	TERRE HAUTE, IND.	8127	12 13	0 44 17.4			298	63 30		845303
36224	NEW ORLEANS, LA.	0030	12 13	0 45 03			0 00	43 00		845302
36695	ST. PETERSBURG, FLA.	8604	12 13	0 49 00	2 52 10	52 45				845022
36696	ST. PETERSBURG, FLA.	8604	12 13	0 49 21	3 36 00	47 15				845022
11578	OLIFANTSENTN, S.A.F.	9002	12 13	1 29 18.16	2 57 48	-48 23				434023
36225	SAN JOSE, CAL.	8573	12 13	2 41 52.1	0 05 55	58 49				845002
36226	SAN JOSE, CAL.	8573	12 13	2 41 09.2	0 35 06	56 15				845002
36227	SAN JOSE, CAL.	8573	12 13	2 43 14.6	1 01 18	42 37				845002
36222	DENVER, COLO.	8592	12 13	2 43 46.0			262 24	49 45 00		845303
36223	DENVER, COLO.	8592	12 13	2 45 35.1			219 00	60 30		845303
36228	SAN JOSE, CAL.	8573	12 13	4 40 28.9	20 37 41	20 45				845002
36229	SAN JOSE, CAL.	8573	12 13	4 43 59.2	20 39 21	10 56				845002
11579	APEQUIP, PERU	9007	12 13	5 16 28.50	5 04 24	-64 56				434023
36551	HIGASHIMATSUYAMA, JAP	0210	12 13	6 27 31.6			0 00	33 12		845303
36550	KANAYA MACHI, JAPAN	0220	12 13	8 30 01	18 04	77				845002
36545	MITAKA, JAPAN	0229	12 13	8 30 23.2			344 12	39 42		845303
36546	MITAKA, JAPAN	0229	12 13	8 31 17.55			342 00	45 06		845303
36547	MITAKA, JAPAN	0229	12 13	8 31 22.6			1 30	45 24		845303
11580	TOKYO, JAPAN	9005	12 13	8 33 43.70	3 20 00	50 43				434013
36548	KUNAU, JAPAN	0224	12 13	8 33 58.4	4 27 30	39 54				845002
36549	YOKKAICHI, JAPAN	0258	12 13	8 37 43	4 26	16				845002
36391	BAGUIO CITY, PH. IS.	0504	12 13	10 30 06.2			352 04 48	7 53 24		845302
36395	TAIPEI, TAIWAN	0502	12 13	10 30 34.8	17 21	80 36				845042
36398	HSINGCHU CITY, TAIWAN	0505	12 13	10 31 05.5	17 44	86 35				845042
36392	BAGUIO CITY, PH. IS.	0504	12 13	10 31 39.6			2 03 36	11 49 48		845302
36553	YOKKAICHI, JAPAN	0258	12 13	10 31 53	20 20	40				845002
11585	TOKYO, JAPAN	9005	12 13	10 32 31.00	20 41 48	34 02				434013
36556	KAGOSHIMA, JAPAN	0218	12 13	10 32 38	21 37	61 42				845002
36393	BAGUIO CITY, PH. IS.	0504	12 13	10 32 50.6			10 36 00	14 25 12		845302
36396	TAIPEI, TAIWAN	0502	12 13	10 33 55.6	4 39	53 46				845042
36555	YATSUSHIRO, JAPAN	0272	12 13	10 34 24			0 00	71 30		845302
36552	MITAKA, JAPAN	0229	12 13	10 34 31.9			272 06	55 18		845303
36554	KANAYA MACHI, JAPAN	0220	12 13	10 36 52	1 51	19				845002
36397	TAIPEI, TAIWAN	0502	12 13	10 37 04.6	5 23	28 42				845042
36557	HIGASHIMATSUYAMA, JAP	0210	12 13	10 37 30.6			180 00	60 12		845303
36399	HSINGCHU CITY, TAIWAN	0505	12 13	12 32 40.5			323	13		845302
36559	KAGOSHIMA, JAPAN	0218	12 13	12 32 49.4	20 55 48	41 12				845042
36394	BAGUIO CITY, PH. IS.	0504	12 13	12 33 20	21 28	17 30				845002
36558	YATSUSHIRO, JAPAN	0272	12 13	12 34 18.7			324 51 36	23 23 24		845302
11589	SHIRAZ, IRAN	9008	12 13	12 34 26			270 00	23 06		845302
11583	WOOMERA, AUSTR.	9003	12 13	14 29 07.51	4 27 12	51 10				434013
11590	SHIRAZ, IRAN	9008	12 13	15 06 12.54	8 13 24	-44 57				434023
55411	MEUDON, FR.	2715	12 13	16 29 12.96	0 24 46	32 45				637109
55412	MEUDON, FR.	2715	12 13	18 15 02.40			270 08	22 53		637109
11581	OLIFANTSENTN, S.A.F.	9002	12 13	18 16 08.80	9 07 12	-68 19				434023

QBS NO	STATION	STA NO	DATE	TIME	R. A.	DECL.	AZIMUTH	ALTITUDE	RANGE	INDEA
36230	NEW ORLEANS, LA.	0030	12 14	0 11 40			0 00	37 00		845302
36697	ST. PETERSBURG, FLA.	8604	12 14	0 11 51	18 26 30	72 35				845022
36231	TERRE HAUTE, IND.	8127	12 14	0 12 13.4			162 30	80 00		845303
36232	CINCINNATI, OHIO	0050	12 14	0 13 15			30 48	86 18		845302
36698	ST. PETERSBURG, FLA.	8604	12 14	0 17 34	3 05 50	51 30				845022
11582	OLIFANTSFNTN, S. AF.	9002	12 14	1 00 17.21	3 19 48	-74 22				434023
36233	SAN JOSE, CAL.	8573	12 14	2 09 01.9	0 54 09	60 59				845002
36234	SAN JOSE, CAL.	8573	12 14	2 09 20.1	1 23 02	59 31				845002
36235	CHINA LAKE, CAL.	0098	12 14	2 10 19.5			26 21 36	62 51 00		641303
36238	DENVER, COLO.	8592	12 14	2 13 23.5			180 39 00	64 00		845303
36236	N. CANTON, OHIO	8536	12 14	2 14 39.2	22 27 10	0 00				641042
36237	DENVER, COLO.	8592	12 14	2 15 29.0			149 15 00	44 12		845303
36239	DENVER, COLO.	8592	12 14	4 14 30.0			239 00	20 28 00		845303
11591	AREQUIPA, BN, PERU	9007	12 14	4 40 48.34	3 55 42	-49 20				434023
11599	MAUI, BN, HAWAII	9012	12 14	6 11 19.40	1 41 48	56 41				434013
11592	AREQUIPA, BN, PERU	9007	12 14	6 46 18.85	2 10 00	-63 26				434023
36400	TAIPEI, TAIWAN	0502	12 14	10 00 33.1	4 49	66 18				845042
36564	YATSUSHIRO, JAPAN	0272	12 14	10 00 43			0 00	72 18		845302
55515	TCHITA, USSR	1064	12 14	10 01 04.2	2 12 00	-80 00				845009
36563	QITA, JAPAN	0239	12 14	10 01 05	0 33	55				845002
36565	KAGOSHIMA, JAPAN	0218	12 14	10 01 20	1 22	60 00				845002
36404	HSINGCHU CITY, TAIWAN	0505	12 14	10 01 32.7	4 51	55 12				845042
36562	KANAYA MACHI, JAPAN	0220	12 14	10 02 24	0 57	39				845002
11600	TOKYO, BN, JAPAN	9005	12 14	10 32 44.00	23 53 18	20 11				434013
36560	MITAKA, JAPAN	0229	12 14	10 03 39.51			179 59 42	74 42		845302
36561	YOKKAICHI, JAPAN	0258	12 14	10 05 46	3 17	-3				845002
36837	BAGUIO CITY, PH. IS.	0504	12 14	11 58 36.2			326 46 48	10 59 24		845302
36401	TAIPEI, TAIWAN	0502	12 14	12 00 14.1	21 02	47 24				845042
36838	BAGUIO CITY, PH. IS.	0504	12 14	12 00 29.2			330 08 24	18 36 00		845302
36567	YATSUSHIRO, JAPAN	0272	12 14	12 01 44			270 00	28 30		845302
36839	BAGUIO CITY, PH. IS.	0504	12 14	12 02 30.5			337 04 12	31 14 24		845302
36402	TAIPEI, TAIWAN	0502	12 14	12 02 38.4	22 59	41 42				845042
36569	KAGOSHIMA, JAPAN	0218	12 14	12 03 12	22 38	10 36				845002
36570	KANAYA MACHI, JAPAN	0220	12 14	12 03 54	22 50	0				845002
36405	HSINGCHU CITY, TAIWAN	0505	12 14	12 04 04.0	0 35	33 30				845042
36840	BAGUIO CITY, PH. IS.	0504	12 14	12 04 55.2			347 05 24	43 42 24		845302
36566	YOKKAICHI, JAPAN	0258	12 14	12 04 07	22 50	-2				845002
36568	MIYAZAKI, JAPAN	0230	12 14	12 04 11.9	23 10 00	3 48				845002
55520	SAMARKAND, USSR	1043	12 14	13 51 13.9	19 23 12	11 18				845009
55521	SAMARKAND, USSR	1043	12 14	13 52 27.1	21 19 36	49 48				845009
11596	WOOMERA, BN, AUSTR.	9003	12 14	14 28 41.80	5 32 06	-20 20				434013
55518	ONEPROPETROVSKA, USSR	1017	12 14	15 46 31.1	19 25 36	20 06				845009
55519	ONEPROPETROVSKA, USSR	1017	12 14	15 47 37.6	20 25 30	20 18				845009
55525	WOOMERA, BN, AUSTR.	9003	12 14	16 32 36.43	3 39 24	-49 12				434023
55525	BESANCON, FR.	2727	12 14	17 40 35.61			262 40	10 40		845309
55526	BESANCON, FR.	2727	12 14	17 41 11.34			281 16	13 40		845309
55527	BESANCON, FR.	2727	12 14	17 42 04.73			278 49	10 33		845309
55528	BESANCON, FR.	2727	12 14	17 43 11.79			274 00	26 26		845309
55529	BESANCON, FR.	2727	12 14	17 44 13.02			267 14	34 55		845309
55530	BESANCON, FR.	2727	12 14	17 45 05.14			256 07	43 08		845309
55531	BESANCON, FR.	2727	12 14	17 46 14.71			237 30	53 25		845309
55413	EL GULEA, ALG.	6411	12 14	17 47 00.0			330 12	21 00		845309
55532	BESANCON, FR.	2727	12 14	17 47 03.74			213 08	57 42		845309
55414	EL GULEA, ALG.	6411	12 14	17 48 00.0			338 00	26 24		845309
55533	BESANCON, FR.	2727	12 14	17 48 16.74			176 55	53 59		845309
55415	EL GULEA, ALG.	6411	12 14	17 49 00.0			348 54	32 12		845309
55534	BESANCON, FR.	2727	12 14	17 49 17.43			259 16	46 21		845309
55416	EL GULEA, ALG.	6411	12 14	17 50 00.0			2 16	37 00		845309
55535	BESANCON, FR.	2727	12 14	17 50 35.46			146 36	36 05		845309
55417	EL GULEA, ALG.	6411	12 14	17 51 00.0			19 00	40 06		845309
55536	BESANCON, FR.	2727	12 14	17 51 16.14			142 31	31 24		845309
55418	EL GULEA, ALG.	6411	12 14	17 52 00.0			38 18	40 00		845309
55537	BESANCON, FR.	2727	12 14	17 52 24.13			137 47	24 39		845309
55419	EL GULEA, ALG.	6411	12 14	17 53 00.0			63 12	37 30		845309
55538	BESANCON, FR.	2727	12 14	17 53 04.99			135 52	41 20		845309
55420	EL GULEA, ALG.	6411	12 14	17 54 00.0			86 42	33 18		845309
55539	BESANCON, FR.	2727	12 14	17 54 01.57			133 34	16 56		845309
55540	BESANCON, FR.	2727	12 14	17 55 13.90			131 30	12 15		845309
11594	WOOMERA, BN, AUSTR.	9003	12 14	18 47 17.94	15 10 48	-54 49				434023
11597	SAN FERNANDO, BN, SP.	9004	12 14	19 49 46.90	23 47 36	18 51				434013
11598	SAN FERNANDO, BN, SP.	9004	12 14	21 50 29.40	22 30 00	-5 03				434013
36408	EVANSTON, ILL.	0149	12 14	23 35 41.5	16 23	41 12				845042
36240	N. CANTON, OHIO	8544	12 14	23 36 45.6	18 39 40	39 35				845012
11601	JUPITER, BN, FLA.	9010	12 14	23 37 44.81	16 44 54	63 39				434013
36243	TERRE HAUTE, IND.	8127	12 14	23 38 59.0			0 30	72 40		845302
36409	EVANSTON, ILL.	0149	12 14	23 39 57.1	0 51	33 25				845012
36410	EVANSTON, ILL.	0149	12 14	23 40 10.8	1 04	30 40				845012
56133	NEWTOWN-P	5097	12 14	23 41 51	23 44	28 06				637009
36241	N. CANTON, OHIO	8536	12 14	23 43 55	2 33	5 00				641042
56134	NEWTOWN-P	5097	12 14	23 44 00	1 42 30	8 54				637009
36242	N. CANTON, OHIO	8536	12 14	23 44 15	2 41	3 00				641042
56135	NEWTOWN-P	5097	12 14	23 45 54	2 38	-3 24				637009
11603	JUPITER, BN, FLA.	9010	12 14	23 48 29.36	4 38 00	9 19				434013
36244	DENVER, COLO.	8592	12 15	0 37 56.0			273 54	65 15 00		845303
36245	DENVER, COLO.	8592	12 15	0 39 48.0			179 45 00	75 12		845303
36411	PUEBLA, MEX.	0900	12 15	1 41 51.2	0 01 06	78 03				845013
36412	PUEBLA, MEX.	0900	12 15	1 42 21.2	1 15 24	75 24				845013
36889	ALBUQUERQUE, N.M.	8534	12 15	1 42 37.5	3 03 36	13 00				845042
36413	PUEBLA, MEX.	0900	12 15	1 43 49.1	3 17 44	59 44				845013
11605	JUPITER, BN, FLA.	9010	12 15	1 43 55.19	22 10 30	26 19				434013
11606	JUPITER, BN, FLA.	9010	12 15	1 45 54.41	23 38 54	13 50				434013
36415	SAN JOSE, CAL.	8573	12 15	3 36 45.3	23 02 39	15 28				845002

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36417	PORTLAND, ORE.	0076	12 15	3 39 28.8	0 12 30	-10				845042
36418	PORTLAND, ORE.	0076	12 15	3 40 35.0	0 50 00	-15				845042
36419	CHINA LAKE, CAL.	8588	12 15	3 40 45.0			221 48 36	53 37 46		845042
36416	SAN JOSE, CAL.	8573	12 15	3 41 41.8	1 21 55	-6 23				845002
36414	PUEBLA, MEX.	8500	12 15	3 43 24.0	21 55 06	-25 40				845013
11807	AREQUIPA, PERU	9007	12 15	4 07 19.13	5 39 36	-56 47				434023
11808	VILLA DOLORES, BN, ARG	9011	12 15	4 10 43.75	5 00 30	-25 28				434023
11809	VILLA DOLORES, BN, ARG	9011	12 15	4 12 36.50	10 48 12	-45 10				434023
11610	VILLA DOLORES, BN, ARG	9011	12 15	8 10 02.43	2 27 54	-22 24				434013
11611	VILLA DOLORES, BN, ARG	9011	12 15	6 21 34.07	11 40 06	-22 20				434023
11629	TOKYO, BN, JAPAN	9005	12 15	9 46 42.80	20 09 30	-46 44				434013
36571	MITAKA, JAPAN	0229	12 15	9 48 18.4			302 48	68 00		845003
36574	KANAYA MACHI, JAPAN	0220	12 15	9 50 03	2 07	35				845002
36572	MITAKA, JAPAN	0229	12 15	9 50 14.1			132 00	60 24		845003
36573	MITAKA, JAPAN	0229	12 15	9 51 24.0			126 12	60 12		845003
36403	TAIPEI, TAIWAN	0502	12 15	11 29 34.5	22 37 30	52 24				845042
36575	MITAKA, JAPAN	0229	12 15	11 30 24.9			253 18	23 16		845003
36408	HSINGCHU CITY, TAIWAN	0505	12 15	11 31 14.4	1 20	42 36				845042
55516	VLADIVOSTOK, USSR	1013	12 15	11 31 31.3	1 04 00	-18 06				845009
36576	MITAKA, JAPAN	0229	12 15	11 31 56.1			239 36	26 00		845003
11630	TOKYO, BN, JAPAN	9005	12 15	11 32 13.40	23 04 42	-8 44				434013
55517	VLADIVOSTOK, USSR	1013	12 15	11 33 00.7	4 47 12	-24 12				845009
36407	HSINGCHU CITY, TAIWAN	0505	12 15	11 33 13.8	1 48 30	-14 54				845042
36578	YOKKAICHI, JAPAN	0256	12 15	11 33 49	0 13	-16				845002
36577	MITAKA, JAPAN	0229	12 15	11 33 54.00			220 30	26 30		845002
11612	WOOMERA, BN, AUSTR.	9003	12 15	13 24 46.84	5 25 18	-42 34				434013
55522	EREVAN, USSR	1016	12 15	15 17 52.0	21 14 00	42 00				845009
55523	EREVAN, USSR	1016	12 15	15 18 46.1	22 36 42	38 24				845009
11616	SHIRAZ, BN, IRAN	9008	12 15	15 27 45.74	1 07 48	-48 05				434013
11613	WOOMERA, BN, AUSTR.	9003	12 15	16 00 59.49	4 54 42	-61 44				434023
11614	WOOMERA, BN, AUSTR.	9003	12 15	16 09 51.87	12 33 30	-81 05				434023
11615	SAN FERNANDO, BN, SP.	9004	12 15	19 15 19.60	22 29 24	35 11				434013
11617	CURACAO, BN, NED. I.	9009	12 15	23 14 43.72	4 45 00	55 47				434013
36430	CHINA LAKE, CAL.	8588	12 16	1 03 18.4			20 41 24	48 03 36		845003
36419	DENVER, COLO.	8592	12 16	1 06 44.8			128 36	69 51 00		845003
36490	ALBUQUERQUE, N.M.	8534	12 16	1 06 58.5	2 01 00	42 06				845042
36491	PUEBLA, MEX.	8500	12 16	1 07 50.7	0 47 30	83 56				845013
36420	DENVER, COLO.	8592	12 16	1 07 56.4			124 18	52 30		845003
36491	ALBUQUERQUE, N.M.	8534	12 16	1 08 11.9	2 46 00	26 48				845042
36423	SAN JOSE, CAL.	8573	12 16	3 01 52.3	17 29 09	31 52				845002
36424	SAN JOSE, CAL.	8573	12 16	3 05 35.2	23 07 39	20 58				845002
36428	CHINA LAKE, CAL.	8588	12 16	3 07 08.4			219 37 12	64 27 36		845003
36492	ALBUQUERQUE, N.M.	8534	12 16	3 07 07.1	21 01 12	11 58				845042
36425	EDINBURG, TEX.	8566	12 16	3 07 37.5			280 15	29 30		845003
36421	DENVER, COLO.	8592	12 16	3 08 12.8			293 00	26 45 00		845003
36426	EDINBURG, TEX.	8566	12 16	3 10 30.1			267 30	34		845003
11618	ORGAN PASS, BN, N.M.	9001	12 16	3 11 00.80	0 14 18	-7 44				434013
36431	FORT WORTH, TEX.	8539	12 16	3 11 25.2	23 08 42	-8 36				845013
36492	PUEBLA, MEX.	8500	12 16	3 12 43.8	23 23 18	19 08				845013
36493	PUEBLA, MEX.	8500	12 16	3 13 03.7	23 25 12	16 49				845013
36493	ALBUQUERQUE, N.M.	8534	12 16	3 13 36.2	1 46 24	-26 30				845042
36427	EDINBURG, TEX.	8566	12 16	3 13 51.0			221 45	43 15		845003
36422	DENVER, COLO.	8592	12 16	3 13 54.9			162 06	26 24		845003
36429	CHINA LAKE, CAL.	8588	12 16	3 13 56.7			146 27 00	43 11 24		845003
11642	VILLA DOLORES, BN, ARG	9011	12 16	3 37 37.54	5 26 12	-23 45				434023
11663	VILLA DOLORES, BN, ARG	9011	12 16	3 43 38.13	7 13 00	-42 38				434023
11664	VILLA DOLORES, BN, ARG	9011	12 16	5 39 45.72	2 59 48	-40 32				434023
11665	VILLA DOLORES, BN, ARG	9011	12 16	5 51 07.30	13 07 12	-54 18				434023
11646	VILLA DOLORES, BN, ARG	9011	12 16	7 06 53.76	14 55 48	-47 00				434023
36579	MITAKA, JAPAN	0229	12 16	8 54 55.0			317 30	88 24		845003
36582	KANAYA MACHI, JAPAN	0220	12 16	8 55 06	0 51	60				845002
11632	TOKYO, BN, JAPAN	9005	12 16	8 55 35.80	23 35 42	-48 28				434013
36584	MIYAZAKI, JAPAN	0230	12 16	8 55 35.9	0 01 00	53 18				845002
36580	MITAKA, JAPAN	0229	12 16	8 55 43.91			342 00	78 00		845002
36581	MITAKA, JAPAN	0229	12 16	8 57 22.7			100 18	65 48		845003
36583	YATSUSHIRO, JAPAN	0272	12 16	8 59 30			90 00	23 36		845002
36585	TAIPEI, TAIWAN	0501	12 16	10 54 47.3	21 13	62 48				845002
36841	BAGUIO CITY, PH. I.	0504	12 16	10 55 00			348 06	21 31 12		845002
36587	YATSUSHIRO, JAPAN	0272	12 16	10 56 02			270 00	44 48		845002
36586	TAIPEI, TAIWAN	0501	12 16	10 56 47.1	0 31	54 30				845002
36585	KANAYA MACHI, JAPAN	0220	12 16	10 57 15	22 22	8				845002
36842	BAGUIO CITY, PH. I.	0504	12 16	10 58 02.3			16 25 12	36 58 48		845002
36586	OITA, JAPAN	0239	12 16	10 58 18	23 42	3				845002
36588	MIYAZAKI, JAPAN	0230	12 16	10 58 27.9	23 41 00	7 00				845002
36843	BAGUIO CITY, PH. I.	0504	12 16	10 59 20.1			35 06 00	40 52 12		845002
36577	TAIPEI, TAIWAN	0502	12 16	11 00 44.5	3 25 30	10 00				845002
36844	BAGUIO CITY, PH. I.	0504	12 16	11 01 21.1			64 48 38	39 28 48		845002
36594	HSINGCHU CITY, TAIWAN	0505	12 16	11 02 16.1	3 42	5 42				845002
36845	BAGUIO CITY, PH. I.	0504	12 16	11 03 35.9			87 54	31 12 00		845002
36589	YOKKAICHI, JAPAN	0258	12 16	11 03 40			121 12	24 00		845002
11633	MAINI TAL, BN, INDIA	9006	12 16	12 54 20.72	3 52 42	22 33				434013
11634	MAINI TAL, BN, INDIA	9006	12 16	12 55 30.67	3 49 00	12 31				434013
11635	MAINI TAL, BN, INDIA	9006	12 16	12 56 06.89	3 56 00	8 12				434013
11623	WOOMERA, BN, AUSTR.	9003	12 16	13 21 02.44	5 48 12	-7 10				434013
55523	SAMARKAND, USSR	1043	12 16	13 23 03.7	3 13 06	5 36				845009
55524	SAMARKAND, USSR	1043	12 16	13 25 36.3	3 32 08	4 18				845009
55554	TBILISI, USSR	1053	12 16	14 42 28.9	18 39 30	38 30				845009
55555	TBILISI, USSR	1053	12 16	14 44 36.7	66 30 42	41 12				845009
11641	SHIRAZ, BN, IRAN	9008	12 16	14 51 15.37	3 01 54	-27 22				434013
11622	WOOMERA, BN, AUSTR.	9003	12 16	15 26 14.19	4 24 30	-53 50				434023
55541	BESANCON, FR.	2727	12 16	16 39 25.34			245 08	61 20		834309
55542	BESANCON, FR.	2727	12 16	16 41 01.09			170 23	65 43		834309
55543	BESANCON, FR.	2727	12 16	16 42 09.87			142 14	52 26		834309
55544	BESANCON, FR.	2727	12 16	16 43 11.16			132 23	41 10		834309

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11642	SHIRAZ*BN, IRAN	9008	12 16	16 53 18.29	23 45 36	-10 03				434013
11624	WOOMERA*BN, AUSTR.	9003	12 16	17 33 48.62	6 03 00	-81 57				434023
36432	SAN ANTONIO, TEX.	0089	12 17	0 34 38.7	1 36	62 30				845012
36433	N. CANTON, OHIO	8536	12 17	0 37 36.4	23 49	-9 00				641042
11651	JUPITER*BN, FLA.	9010	12 17	0 38 59.98	23 55 30	31 00				434013
11652	JUPITER*BN, FLA.	9010	12 17	0 39 07.99	0 03 30	28 48				434013
11653	JUPITER*BN, FLA.	9010	12 17	0 41 20.73	1 51 30	5 15				434013
11644	CURACAO*BN, N.W.I.	9009	12 17	0 43 51.54	0 38 12	36 37				434013
36438	CHINA LAKE, CAL.	8588	12 17	2 33 32.0			217 19 12	73 14 24		845303
36894	ALBUQUERQUE, N.M.	8534	12 17	2 35 05.6	22 24 24	7 18				845042
36436	DENVER, COLO.	8592	12 17	2 35 13.4			223 36	34 06		845303
36895	ALBUQUERQUE, N.M.	8534	12 17	2 35 57.0	23 24 48	1 12				845042
11619	ORGAN PASS*BN, N.M.	9001	12 17	2 36 00.40	23 12 00	8 49				434013
36437	DENVER, COLO.	8592	12 17	2 36 44.1			203 54	32 06		845303
36435	SAN ANTONIO, TEX.	0089	12 17	2 38 09.5	23 11	0 24				845012
36599	PUEBLA, MEX.	0900	12 17	2 39 00.9	23 10 18	29 04				845013
11654	JUPITER*BN, FLA.	9010	12 17	2 39 30.78	22 08 30	-1 52				434013
11655	JUPITER*BN, FLA.	9010	12 17	2 42 56.16	23 23 12	-19 51				434013
11636	AREQUIPA*BN, PERU	9007	12 17	2 59 16.11	4 32 42	-32 19				434023
36439	CHINA LAKE, CAL.	8588	12 17	4 36 29.7			232 00 00	19 30 00		845303
11670	MAUI*BN, HAWAII	9012	12 17	4 37 17.18	3 50 48	-61 08				434023
11637	AREQUIPA*BN, PERU	9007	12 17	5 03 44.01	1 53 12	-58 17				434023
11671	MAUI*BN, HAWAII	9012	12 17	6 38 51.59	2 20 48	-22 54				434013
55666	VLAOISVOSTOK, USSR	1013	12 17	8 17 57.8	19 43 50	44 48				845009
55667	VLAOISVOSTOK, USSR	1013	12 17	8 25 11.5	2 41 18	-2 42				845009
36598	TAIPEI, TAIWAN	0502	12 17	10 20 51.0	0 56	66 12				845002
11631	TOKYO*BN, JAPAN	9005	12 17	10 27 07.20	23 57 18	-15 13				434013
36729	YOKKAICHI, JAPAN	0258	12 17	10 28 26			188 36	31 48		845302
36700	ADELAIDE, AUSTR.	8528	12 17	10 53 38.0	7 45	-7 30				845002
55659	FRUNZE, USSR	1058	12 17	12 15 38.0	23 03 00	12 30				845009
36701	ADELAIDE, AUSTR.	8528	12 17	12 51 02.5	6 45	-15				845002
55656	EREVAN, USSR	1018	12 17	14 11 21.5	21 41 00	55 54				845009
55660	FRUNZE, USSR	1058	12 17	14 13 40.3	20 06 00	10 24				845009
55657	EREVAN, USSR	1018	12 17	14 13 56.3	1 06 48	34 00				845009
11676	SHIRAZ*BN, IRAN	9008	12 17	14 15 36.31	2 16 36	57 25				434013
55661	FRUNZE, USSR	1058	12 17	14 17 43.5	22 03 00	-1 48				845009
55663	FRUNZE, USSR	1058	12 17	14 17 53.9	22 48 30	-2 44				845009
55662	FRUNZE, USSR	1058	12 17	14 18 26.7	23 12 00	-11 00				845009
36702	ADELAIDE, AUSTR.	8528	12 17	14 54 07.0	5 45	-51 30				845002
55934	RODEWISCH, GER.	2733	12 17	16 06 37.0	40 32 30	15 06				845009
55935	RODEWISCH, GER.	2733	12 17	16 07 45.1	21 51 06	11 30				845009
55658	UJGOROD, USSR	1055	12 17	16 11 47.2	23 57 00	-3 42				845009
11677	SHIRAZ*BN, IRAN	9008	12 17	16 19 32.32	23 42 36	-5 15				434013
36703	ADELAIDE, AUSTR.	8528	12 17	16 57 52.0	4 00	-63 30				845002
11625	WOOMERA*BN, AUSTR.	9003	12 17	16 59 02.84	4 53 00	-78 25				434023
36704	ADELAIDE, AUSTR.	8528	12 17	17 07 18.0	13 58	-45 36				845002
55936	RODEWISCH, GER.	2733	12 17	18 10 08.3	22 15 54	-10 18				845009
55937	RODEWISCH, GER.	2733	12 17	18 11 47.4	23 13 54	-16 44				845009
55545	EL GULEA, ALG.	6411	12 17	18 12 00.0			2 48	74 18		845309
55546	EL GULEA, ALG.	6411	12 17	18 13 00.0			65 00	74 14		845309
55547	EL GULEA, ALG.	6411	12 17	18 14 00.0			100 30	82 18		845309
55548	EL GULEA, ALG.	6411	12 17	18 15 00.0			112 00	90 06		845309
55549	EL GULEA, ALG.	6411	12 17	18 16 00.0			115 48	90 34		845309
55550	EL GULEA, ALG.	6411	12 17	18 17 00.0			117 36	92 00		845309
36705	ADELAIDE, AUSTR.	8528	12 17	19 01 14.0	4 15	-63 00				845002
11620	OLIFANTSFONT*BN, S.AFR.	9002	12 17	20 32 49.73	2 27 18	6 25				434013
36846	PRETORIA, S.AFR.	8575	12 17	22 31 48.4	1 06	-10 24				845041
36847	PRETORIA, S.AFR.	8575	12 17	22 43 15.0			24 36	39 16		845303
55949	ROCHESTER*BN, N.Y.	5050	12 17	23 59 07.21	19 36 54	13 27				637014
36600	SAN ANTONIO, TEX.	0089	12 17	23 59 36.5			0	36 30		845302
36440	TERRE HAUTE, IND.	8127	12 17	23 59 31.5			277	44 00		845303
36441	NEW ORLEANS, LA.	0031	12 18	0 02 11			0	58		845302
36442	BILOXI, MISS.	0090	12 18	0 02 20.5			0	63 30		845302
55950	ROCHESTER*BN, N.Y.	5050	12 18	0 02 22.0	21 56 00	0 11				637014
11656	JUPITER*BN, FLA.	9010	12 18	0 02 51.77	20 53 18	54 00				434013
36446	CINCINNATI, OHIO	0050	12 18	0 02 54	23 23 30	10 24				845004
55951	ROCHESTER*BN, N.Y.	5050	12 18	0 04 33.20	23 31 06	-12 16				637014
36443	BILOXI, MISS.	0090	12 18	0 04 51			90	57		845302
36444	ST. PETERSBURG, FLA.	0121	12 18	0 04 54	0 46 10	40 55				845022
36434	N. CANTON, OHIO	8536	12 18	0 04 59.4	0 27	-10 27				641032
36445	ST. PETERSBURG, FLA.	0121	12 18	0 06 18	1 57 30	22 20				845022
11657	JUPITER*BN, FLA.	9010	12 18	0 06 30.35	1 25 48	24 48				434013
11646	CURACAO*BN, N.W.I.	9009	12 18	0 10 42.91	1 36 48	39 18				434013
11658	JUPITER*BN, FLA.	9010	12 18	0 14 09.23	4 17 54	-25 29				434023
36896	ALBUQUERQUE, N.M.	8534	12 18	1 55 11.0	19 48 24	28 18				845042
36449	SAN DIEGO, CAL.	8595	12 18	1 57 12.6	19 24 30	51 42				845012
36448	SACRAMENTO, CAL.	8517	12 18	1 58 36.0			180 00	80 05		641304
36450	SAN DIEGO, CAL.	8595	12 18	1 59 07.9	22 25 30	49 30				845012
36897	ALBUQUERQUE, N.M.	8534	12 18	2 01 48.9	22 56 00	11 00				845042
11659	JUPITER*BN, FLA.	9010	12 18	2 02 44.82	20 38 00	13 43				434013
36601	SAN ANTONIO, TEX.	0089	12 18	2 04 37.5	23 17 30	4 42				845002
36447	CINCINNATI, OHIO	0050	12 18	2 05 11			232 12	15 48		845302
36451	FORT WORTH, TEX.	0139	12 18	2 07 08.0	0 51 00	-22 00				845013
11660	JUPITER*BN, FLA.	9010	12 18	2 07 14.38	2 23 48	-6 30				434013
11661	JUPITER*BN, FLA.	9010	12 18	2 13 18.21	0 59 00	-39 49				434023
11645	CURACAO*BN, N.W.I.	9009	12 18	2 15 32.55	23 56 06	-24 20				434023
11673	AREQUIPA*BN, PERU	9007	12 18	2 23 48.08	3 27 24	-15 34				434013
11667	VILLA DOLORES*BN, ARG	9011	12 18	2 24 42.39	3 40 48	17 59				434013
11668	VILLA DOLORES*BN, ARG	9011	12 18	2 38 10.69	9 29 36	-34 24				434023
36452	CHINA LAKE, CAL.	8588	12 18	4 02 45.4			230 02 24	23 39 36		845303
11638	AREQUIPA*BN, PERU	9007	12 18	4 28 34.08	1 39 06	-51 22				434023
11672	MAUI*BN, HAWAII	9012	12 18	6 09 21.42	4 15 54	-36 00				434023
11669	VILLA DOLORES*BN, ARG	9011	12 18	6 42 50.90	9 47 12	-81 59				434023

OBS NO	STATION	SIA NO	DATE	TIME	R. A.	DECL.	AZIMUTH	ALTITUDE	RANGE	MODE
36730	ASAHIKAWA, JAPAN	0201	12 18	7 48 38.2	22 25	26 48				845002
36733	KAGOSHIMA, JAPAN	0218	12 18	9 50 54.5	23 57	25 48				845002
36731	KANAYA MACHI, JAPAN	0220	12 18	9 54 49.2	1 41	-17 00				845002
36732	MIYAZAKI, JAPAN	0230	12 18	10 02 02.1	4 22 42	-34 06				845002
11627	WOOMERA*BN, AUSTR.	9003	12 18	12 12 26.92	5 09 36	6 40				434013
55564	EREVAN, USSR	1018	12 18	15 42 16.2	23 12 30	- 4 12				845007
11643	SHIRAZ*BN, IRAN	9008	12 18	15 44 35.00	22 50 18	10 43				434018
55565	EREVAN, USSR	1018	12 18	15 44 44.7	0 50 00	-18 24				845009
55551	EL GULLA, ALG.	6411	12 18	17 37 00.0			349 30	55 54		045309
55552	EL GULLA, ALG.	6411	12 18	17 38 00.0			18 18	63 24		045309
55553	EL GULLA, ALG.	6411	12 18	17 39 00.0			58 00	63 40		045309
55554	EL GULLA, ALG.	6411	12 18	17 40 00.0			83 30	64 00		045309
55555	EL GULLA, ALG.	6411	12 18	17 41 00.0			96 24	44 24		045309
55556	EL GULLA, ALG.	6411	12 18	17 42 00.0			103 24	36 18		045309
55557	EL GULLA, ALG.	6411	12 18	17 43 00.0			108 00	29 06		045309
11628	SAN FERNANDO*BN, SP.	9004	12 18	19 38 15.20	22 34 36	- 4 26				434013
11621	OLIFANTSFTN*BN, S.AF	9002	12 18	22 05 29.56	1 53 12	-40 03				434023
11678	JUPITER*BN, FLA.	9010	12 18	23 27 09.50	18 04 12	56 32				434013
36453	NEW ORLEANS, LA.	0030	12 18	23 27 41			0 00	49 00		045306
11679	JUPITER*BN, FLA.	9010	12 18	23 28 29.08	19 36 06	62 12				434013
36457	CINCINNATI, OHIO	0050	12 18	23 28 38.9			214 30	69 36		045306
56136	NEWTOWN-P	5097	12 18	23 29 37	21 58	7 48				037007
56137	NEWTOWN-P	5097	12 18	23 32 07	0 02	- 9 30				037007
36454	NEW ORLEANS, LA.	0030	12 18	23 32 14			90 00	39 00		045306
11647	CURACAO*BN, N.W.I.	9009	12 18	23 35 32.89	1 02 00	58 18				434013
11648	CURACAO*BN, N.W.I.	9009	12 18	23 39 10.21	3 25 18	19 20				434013
36459	ALBUQUERQUE, N.M.	8534	12 19	0 57 47.8	23 38 24	40 12				045304
36459	SACRAMENTO, CAL.	8517	12 19	1 24 21.1			0 00	86 49		045304
36461	SAN JOSE, CAL.	8573	12 19	1 25 56.8	0 06 12	42 51				045306
36462	SAN JOSE, CAL.	8573	12 19	1 27 10.2	1 53 13	15 07				045306
36463	DENVER, COLO.	8592	12 19	1 27 46.8			215 24	46 30		045303
36602	SAN ANTONIO, TEX.	0089	12 19	1 28 26.4	21 06	31 48				045302
36465	WHITTIER*O, CAL.	8566	12 19	1 28 50.0			107 48 36	44 31 40		045303
36604	ALBUQUERQUE AFB, N.M.	8579	12 19	1 29 15.5			180 00	60 48		045306
36464	DENVER, COLO.	8592	12 19	1 29 24.9			185 15 00	40 30		045303
36455	NEW ORLEANS, LA.	0030	12 19	1 29 43.5			270 00	34 00		045306
11674	ORGAN PASS*BN, N.M.	9001	12 19	1 30 07.50	0 52 12	7 19				434013
11722	JUPITER*BN, FLA.	9010	12 19	1 30 28.35	20 47 00	12 29				434013
36458	CINCINNATI, OHIO	0090	12 19	1 31 18.5			230 18	10 24		045306
36603	SAN ANTONIO, TEX.	0089	12 19	1 31 23.7	23 32	8 30				045302
11723	JUPITER*BN, FLA.	9010	12 19	1 33 16.89	22 40 36	-21 21				434013
36467	FORT WORTH, TEX.	0139	12 19	1 34 00.4	1 22 24	-22 24				045302
36456	NEW ORLEANS, LA.	0030	12 19	1 36 36			180 00	32 00		045306
11724	JUPITER*BN, FLA.	9010	12 19	1 36 38.97	23 45 18	-24 10				434013
36640	PUEBLA, MEX.	0900	12 19	1 36 58.4	3 11 36	- 6 44				045303
36641	PUEBLA, MEX.	0900	12 19	1 37 16.1	3 15 12	-10 34				045303
11649	CURACAO*BN, N.W.I.	9009	12 19	1 39 49.78	20 11 00	- 9 20				434013
11639	AREQUIPA*BN, PERU	9007	12 19	1 46 17.17	2 19 00	10 20				434013
11650	CURACAO*BN, N.W.I.	9009	12 19	1 46 36.47	2 06 18	-32 00				434013
36460	SACRAMENTO, CAL.	8517	12 19	3 27 07.9	22 13 18	- 8 19				045303
36466	WHITTIER*O, CAL.	8566	12 19	3 31 11.0			205 28 12	29 15 36		045303
11675	ORGAN PASS*BN, N.M.	9001	12 19	3 42 24.90	23 00 36	-22 20				434013
36642	PUEBLA, MEX.	0900	12 19	3 43 32.3	2 12 06	-35 06				045304
36643	PUEBLA, MEX.	0900	12 19	3 44 30.7	2 28 00	-36 37				045304
11640	AREQUIPA*BN, PERU	9007	12 19	3 54 30.32	1 45 42	-36 32				434013
11680	VILLA DOLORES*BN, ARG	9011	12 19	5 58 38.47	1 50 00	-32 14				434013
11681	VILLA DOLORES*BN, ARG	9011	12 19	6 03 10.76	1 55 06	-35 22				434013
11682	VILLA DOLORES*BN, ARG	9011	12 19	6 09 03.73	4 00 48	-61 56				434013
11683	VILLA DOLORES*BN, ARG	9011	12 19	6 15 13.53	12 49 00	-58 52				434013
36741	KANAGAWA, JAPAN	0219	12 19	9 13 12			180	50		045306
36739	MITAKA, JAPAN	0229	12 19	9 15 46.1			267 48	40 34		045303
36740	SAPPORO, JAPAN	0245	12 19	9 16 26.0	21 18 36	- 4 24				045306
36742	QITA, JAPAN	0239	12 19	9 16 40	23 38	27				045306
36744	KAGOSHIMA, JAPAN	0218	12 19	9 17 13	0 15	18 42				045306
36735	MITAKA, JAPAN	0229	12 19	9 17 47.3			226 24	52 36		045303
36737	MUSASHINO, JAPAN	0233	12 19	9 17 52.1			225	50		045302
36736	MITAKA, JAPAN	0229	12 19	9 16 18.0			209 24	52 06		045303
36745	HIGASHIMATSUYAMA, JAP	0210	12 19	9 19 58.9			180	42 36		045302
36739	KANAYA MACHI, JAPAN	0220	12 19	9 20 02.8	1 42	- 6 18				045306
36738	KASHIWABARA, JAPAN	0222	12 19	9 20 12	1 18	- 9				045306
11688	TOKYO*BN, JAPAN	9005	12 19	9 20 31.80	0 43 00	-14 24				434013
36743	MIYAZAKI, JAPAN	0230	12 19	9 25 30.5	1 46 24	-24 30				045303
36747	KASHIWABARA, JAPAN	0222	12 19	11 17 40	21 10	- 6				045306
36749	KAGOSHIMA, JAPAN	0218	12 19	11 18 57	22 14 30	- 9 00				045306
36746	YOKKAICHI, JAPAN	0258	12 19	11 21 24	22 06	-23 06				045306
36849	BAGUIO CITY, PH.I.S.	0504	12 19	11 23 06.9			148 34 48	71 00 00		045306
36748	MIYAZAKI, JAPAN	0230	12 19	11 25 13.0	1 01 18	-40 54				045303
36850	BAGUIO CITY, PH.I.S.	0504	12 19	11 26 16.1			142 22 24	58 42 36		045306
36851	BAGUIO CITY, PH.I.S.	0504	12 19	11 29 15.3			140 44 24	60 18 00		045306
11684	WOOMERA*BN, AUSTR.	9003	12 19	13 41 55.50	3 37 00	-28 58				434013
11685	SHIRAZ*BN, IRAN	9008	12 19	15 39 35.04	21 41 54	18 27				434013
55558	TAMANRASSET, ALG.	6412	12 19	19 17 30.0			159 12	27 42		045309
55559	TAMANRASSET, ALG.	6412	12 19	19 18 30.0			157 06	26 16		045309
55560	TAMANRASSET, ALG.	6412	12 19	19 19 30.0			154 54	24 26		045309
55561	TAMANRASSET, ALG.	6412	12 19	19 20 30.0			153 24	1 24		045309
55562	TAMANRASSET, ALG.	6412	12 19	19 22 30.0			151 06	4 00		045309
55563	TAMANRASSET, ALG.	6412	12 19	19 23 30.0			150 00	1 42		045309
36690	STATE COLLEGE, PA.	8603	12 19	22 59 46.8			151 42	29 30		045306
36605	SACRAMENTO, CAL.	8517	12 20	0 50 06.9			0 00	74 40		045304
36607	ALBUQUERQUE, N.M.	0041	12 20	0 54 04.5	23 01	27 30				045304
11693	JUPITER*BN, FLA.	9010	12 20	0 54 36.70	19 26 48	23 00				434013
36468	NEW ORLEANS, LA.	0030	12 20	0 56 21			270 00	43 00		045306
36691	STATE COLLEGE, PA.	8603	12 20	1 00 39.8			212 18	13 42		045306

OBS NO	STATION	STA NO	DATE	TIME	R. A.	DECL.	AZIMUTH	ALTITUDE	RANGE	INDEX
36469	NEW ORLEANS, LA.	0030	12 20	1 01 21.4			180 00	42 00		845302
11694	JUPITER, FLA.	9010	12 20	1 01 37.7	23 08 30	-14 10				845013
11686	CURACAO, N.W.I.	9009	12 20	1 09 24.01	0 48 24	-32 55				845023
36617	LIMA, PERU	0814	12 20	1 10 01.5	2 55 00	33 18				845002
11693	JUPITER, FLA.	9010	12 20	1 10 44.7	3 24 42	-51 20				845023
11689	AREQUIPA, PERU	9007	12 20	1 14 24.60	3 47 42	9 22				845013
11696	VILLA DOLORES, ARG	9011	12 20	1 18 29.18	4 08 30	15 41				845013
36608	SAN JOSE, CAL.	8517	12 20	2 53 04.2	22 03 37	-1 01				845002
36606	SACRAMENTO, CAL.	8517	12 20	2 53 33.3	22 14 00	-6 56				845013
36609	SAN JOSE, CAL.	8513	12 20	2 53 37.8	22 14 29	-3 05				845002
36610	CHINA LAKE, CAL.	0098	12 20	2 54 57.6			226 15 00	33 48 36		845303
36706	PUEBLA, MEX.	0703	12 20	2 59 54.2	21 58 00	-0 04				845013
11692	AREQUIPA, PERU	9007	12 20	3 19 00.57	1 44 48	-47 25				845023
11697	VILLA DOLORES, ARG	9011	12 20	3 23 18.65	2 58 06	-30 20				845023
11698	VILLA DOLORES, ARG	9011	12 20	3 32 51.73	10 18 48	-52 03				845023
11703	MAUI, HAWAII	9012	12 20	4 50 36.90	21 55 06	58 27				845013
11699	VILLA DOLORES, ARG	9011	12 20	5 31 13.71	3 32 00	-70 41				845023
11700	VILLA DOLORES, ARG	9011	12 20	5 41 35.64	13 35 18	-42 25				845023
11701	VILLA DOLORES, ARG	9011	12 20	7 31 34.02	2 48 30	-46 18				845013
11702	VILLA DOLORES, ARG	9011	12 20	7 48 42.38	14 49 24	-20 35				845013
36754	KASHIWARA, JAPAN	0222	12 20	8 41 12	20 23	41				845002
36755	KANAYA MACHI, JAPAN	0220	12 20	8 41 26.7	20 28	42 24				845002
36750	MITAKA, JAPAN	0229	12 20	8 42 31.6			265 06	53 12		845303
36753	ASAHIKAWA, JAPAN	0201	12 20	8 42 51.6	22 01	-2 30				845002
36756	SAPPORO, JAPAN	0245	12 20	8 43 54	22 07 30	-4 18				845002
36751	MITAKA, JAPAN	0229	12 20	8 43 58.2			249 54	52 42		845303
11687	TOKYO, JAPAN	9005	12 20	8 45 03.00	23 44 00	-2 35				845013
36757	TAKADA, JAPAN	0250	12 20	8 45 32	0 40	-3				845002
36752	MITAKA, JAPAN	0229	12 20	8 45 37.8			172 36	50 12		845303
36759	MIYAZAKI, JAPAN	0230	12 20	8 46 47.2	2 37 00	0 42				845002
36750	KAGOSHIMA, JAPAN	0218	12 20	8 47 26	2 55 30	-2 54				845002
36758	KANAGAWA, JAPAN	0219	12 20	8 58 20			90	70		845302
36761	KASHIWARA, JAPAN	0222	12 20	10 44 30	21 30	-6				845002
36762	TAKADA, JAPAN	0250	12 20	10 45 03.2	21 49	-14 18				845002
36765	KAGOSHIMA, JAPAN	0218	12 20	10 45 26.5	22 14 30	-8 12				845002
36611	QUEZON CITY, PH. IS.	0500	12 20	10 46 13			345 00	45 00		845302
36764	MIYAZAKI, JAPAN	0230	12 20	10 46 45.4	22 51 54	-17 06				845002
36763	QITA, JAPAN	0239	12 20	10 46 58	23 07	-21				845002
36612	QUEZON CITY, PH. IS.	0500	12 20	10 48 20			146 00	73 00		845302
36613	QUEZON CITY, PH. IS.	0500	12 20	10 49 46.5			102 00	64 00		845302
36625	SYDNEY, AUSTR.	0602	12 20	11 08 09.4	5 02	-0 30				845049
36626	SYDNEY, AUSTR.	0602	12 20	11 09 17.5	5 52	-6 48				845049
36627	SYDNEY, AUSTR.	0602	12 20	11 11 15.1	6 26	-15 42				845049
11714	NAINI TAL, INDIA	9006	12 20	12 39 59.66	0 25 06	25 20				845013
11715	NAINI TAL, INDIA	9006	12 20	12 41 34.58	1 36 47	6 10				845013
11716	NAINI TAL, INDIA	9006	12 20	12 44 18.65	2 46 06	-14 04				845013
36614	QUEZON CITY, PH. IS.	0500	12 20	12 51 07			239 30	23 00		845302
36615	QUEZON CITY, PH. IS.	0500	12 20	12 52 13			230 30	24 00		845302
36616	QUEZON CITY, PH. IS.	0500	12 20	12 54 40.0			209 30	22 00		845302
36681	BOCHUM, GERM.	8299	12 20	15 32 58.2	0 42 12	-20				845042
11691	CURACAO, N.W.I.	9009	12 21	0 34 14.29	23 53 12	-12 17				845013
11719	AREQUIPA, PERU	9007	12 21	0 38 14.30	3 05 00	30 09				845013
36618	LIMA, PERU	0814	12 21	0 40 10.0	4 52 12	7 36				845002
11704	VILLA DOLORES, ARG	9011	12 21	0 45 17.22	4 32 06	13 58				845013
11705	VILLA DOLORES, ARG	9011	12 21	0 52 23.32	7 09 48	-17 36				845013
36619	SACRAMENTO, CAL.	8517	12 21	1 19 26.5	21 57 12	-1 39				845013
36620	CHINA LAKE, CAL.	8586	12 21	2 20 58.1			223 46 12	40 34 12		845303
11692	OPGAN PASTEN, N.W.I.	9001	12 21	2 21 52.34	22 22 06	-14 43				845013
36707	PUEBLA, MEX.	0700	12 21	2 26 51.3	22 10 30	-1 51				845013
36708	PUEBLA, MEX.	0700	12 21	2 28 34.1	23 02 18	-15 19				845013
11706	VILLA DOLORES, ARG	9011	12 21	2 49 21.41	3 14 12	-28 30				845023
11707	VILLA DOLORES, ARG	9011	12 21	2 56 47.36	8 51 36	-51 48				845023
11708	VILLA DOLORES, ARG	9011	12 21	4 57 11.04	3 59 36	-72 45				845023
11718	MAUI, HAWAII	9012	12 21	6 25 04.50	24 55 42	-19 05				845013
11710	VILLA DOLORES, ARG	9011	12 21	7 08 52.33	13 58 48	-53 05				845013
36771	MIZUSAWA, JAPAN	0267	12 21	8 06 00			260 24	46 54		845302
36766	MITAKA, JAPAN	0229	12 21	8 08 24.7			281 18	66 12		845303
36770	KASHIWARA, JAPAN	0222	12 21	8 09 20			180	89		845302
36767	MITAKA, JAPAN	0229	12 21	8 09 32.1			243 36	74 30		845303
11711	TOKYO, JAPAN	9005	12 21	8 09 46.90	22 34 42	23 11				845013
36769	MUSASHINO, JAPAN	0233	12 21	8 10 11.6			180 00	70		845302
36768	MIYAKA, JAPAN	0429	12 21	8 11 02.3			162 42	63 42		845303
11721	AREQUIPA, PERU	9007	12 21	9 16 20.17	15 29 00	-37 49				845023
36774	MIYAZAKI, JAPAN	0230	12 21	10 10 51.5	21 35 00	-0 36				845002
36773	KASHIWARA, JAPAN	0222	12 21	10 10 55	21 22	-6				845002
36852	BAGUIO CITY, PH. IS.	0504	12 21	10 10 58.7			349 18 36	43 10 40		845302
36775	KAGOSHIMA, JAPAN	0218	12 21	10 11 21	22 00	-2 12				845002
36844	QUEZON CITY, PH. IS.	0500	12 21	10 11 32.5			353	41 30		845302
36772	QITA, JAPAN	0239	12 21	10 13 27	23 20	-23				845002
36845	QUEZON CITY, PH. IS.	0500	12 21	10 14 14			51	57 00		845302
11712	TOKYO, JAPAN	9005	12 21	10 14 55.30	23 04 18	-29 36				845013
36813	BAGUIO CITY, PH. IS.	0504	12 21	10 15 04.4			87 37 48	54 22 12		845302
36846	QUEZON CITY, PH. IS.	0500	12 21	10 15 15.5			76 30	53 30		845302
36854	BAGUIO CITY, PH. IS.	0504	12 21	10 22 17.5			125 29 48	12 51 03		845302
36828	SYDNEY, AUSTR.	0602	12 21	10 32 01.7	4 13	-14 30				845049
36821	TOWNSVILLE, AUSTR.	8978	12 21	10 32 14.3	5 27	19 12				845042
36822	TOWNSVILLE, AUSTR.	8978	12 21	10 32 50.4	5 45	-22 00				845042
36829	SYDNEY, AUSTR.	0602	12 21	10 33 29.3	4 48	6 30				845049
36830	SYDNEY, AUSTR.	0602	12 21	10 35 03	5 29 30	-2 15				845049
36855	BAGUIO CITY, PH. IS.	0504	12 21	12 16 16.4			239 39 00	28 00 36		845302
36776	MIYAZAKI, JAPAN	0230	12 21	12 16 34.5	22 53 48	-33 00				845002
36856	BAGUIO CITY, PH. IS.	0504	12 21	12 17 47.1			224 17 24	28 36 00		845302
36857	BAGUIO CITY, PH. IS.	0504	12 21	12 22 24.8			188 44 24	19 34 48		845302
59568	STALINABAD, USSR	1068	12 21	14 05 03.9	22 20 48	-15 06				845609

OBS NO	STATION	STA NO	DATE	TIME	R. A.	DECL.	AZIMUTH	ALTITUDE	RANGE	INDEX
55667	ITALINABAD, USSR	1068	12 21	14 06 20.1	23 05 12	-22 06				845009
11713	SAN FERNANDO, SP.	9004	12 21	17 56 22.10	22 19 18	14 17				434013
55564	BRAZZA, F. G. F. AF	6402	12 21	20 15 20.0			225 48	39 00		845309
55565	MAZAVILLE, F. G. F. AF	6402	12 21	20 16 15.0			214 12	39 00		845309
36623	CINCINNATI, OHIO	8555	12 21	23 49 33.4			223 42	33 24		845302
36624	NEW ORLEANS, LA.	0031	12 21	23 51 01			180	72		845302
11717	CURACAO, N. A. L.	9009	12 21	23 58 26.34	23 41 30	1 06				434013
36625	SAN JOSE, CAL.	8573	12 22	1 45 16.2	21 42 07	9 46				845002
36626	SAN JOSE, CAL.	8573	12 22	1 46 10.6	22 33 11	2 10				845002
36627	SAN JOSE, CAL.	8573	12 22	1 47 26.7			179 24 00	45 09 00		845304
11741	MAUI, HAWAII	7012	12 22	5 47 50.29	22 17 30	-6 25				434013
36777	KUMAKU, JAPAN	0224	12 22	9 34 29.6	19 52 30	10 42				845302
36778	KAYAMA, HAWAII, JAPAN	0220	12 22	9 37 23.4	21 30	-5 24				845002
36831	KUNRY, HAWAII	0602	12 22	10 01 12.3	5 30 30	0 30				845049
36832	KUNRY, HAWAII	0602	12 22	10 02 04.48	5 48	-4 06				845049
36833	KUNRY, HAWAII	0602	12 22	11 42 35.5	22 45	-33 48				845002
36647	JEZEON, CHINA, F. G. F. AF	1500	12 22	11 43 15			245	35		845302
36648	JEZEON, CHINA, F. G. F. AF	1500	12 22	11 44 55			222 30	37		845302
36649	JEZEON, CHINA, F. G. F. AF	1500	12 22	11 45 54			209	35		845302
11747	MAINT, JAPAN, F. G. F. AF	7006	12 22	13 30 01.90	29 38 12	15 02				434013
11748	MAINT, JAPAN, F. G. F. AF	7006	12 22	13 30 50.78	20 03 24	11 30				434013
11749	MAINT, JAPAN, F. G. F. AF	7006	12 22	14 04 59.44	3 23 06	-61 45				434023
11750	MAINT, JAPAN, F. G. F. AF	7006	12 22	15 11 51.33	4 46 00	-81 32				434023
11751	MAINT, JAPAN, F. G. F. AF	7006	12 22	17 45 52.10	4 38 00	7 24				434013
11752	MAINT, JAPAN, F. G. F. AF	7006	12 22	19 44 43.70	21 33 42	-16 48				434013
11753	MAINT, JAPAN, F. G. F. AF	7006	12 22	19 45 44.53	1 06 36	-9 52				434013
11754	MAINT, JAPAN, F. G. F. AF	7006	12 22	21 52 08.20	0 47 00	-46 48				434023
36646	MAINT, JAPAN, F. G. F. AF	7006	12 22	22 14 09.6	20 15 24	-4 14				845014
36647	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 22.2			184 06	17 30		845302
11747	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 11 10.58	0 47 00	-14 16				434013
11748	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 47.9	20 17 48	-4 24				434013
11749	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 02.17	2 33 24	-61 40				434023
11750	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
36647	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11751	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11752	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11753	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11754	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11755	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11756	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11757	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11758	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11759	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11760	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11761	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11762	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11763	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11764	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11765	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11766	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11767	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11768	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11769	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11770	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11771	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11772	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11773	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11774	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11775	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11776	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11777	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11778	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11779	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11780	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11781	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11782	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11783	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11784	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11785	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11786	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11787	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11788	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11789	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11790	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11791	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11792	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11793	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11794	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11795	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11796	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11797	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11798	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11799	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11800	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11801	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11802	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11803	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11804	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11805	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11806	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11807	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11808	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11809	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11810	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11811	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11812	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11813	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11814	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11815	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11816	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11817	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11818	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11819	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11820	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11821	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11822	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11823	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023
11824	MAINT, JAPAN, F. G. F. AF	7006	12 22	23 10 50.66	22 43 30	-59 54				434023

OBS NO	STATION	STA NO	DATE	TIME	R. A.	DECL.	AZIMUTH	ALTITUDE	RANGE	INDEX
36900	ALBUQUERQUE, N.M.	8534	12 25	2 08 54.6	21 20 24	-22 48				845042
36654	SACRAMENTO, CAL.	8011	12 25	2 08 56.2	23 08 34	-34 22				845043
36864	BAGUIO CITY, PH.IS.	0504	12 25	9 56 12.5			300 22 48	36 54 00		845302
36905	MIYAZAKI, JAPAN	0230	12 25	9 57 13.0	21 03 48	-17 30				845003
36906	KAGOSHIMA, JAPAN	0218	12 25	9 57 27	21 24	-21 18				845002
36865	BAGUIO CITY, PH.IS.	0504	12 25	9 57 53.5			289 40 12	36 17 24		845302
36904	YATSUSHIRO, JAPAN	0272	12 25	9 58 17			225 00	15 24		845302
36866	BAGUIO CITY, PH.IS.	0504	12 25	9 59 46.1			214 34 36	39 06 00		845302
36867	BAGUIO CITY, PH.IS.	0504	12 25	10 01 28.5			169 34 48	33 40 48		845302
36868	BAGUIO CITY, PH.IS.	0504	12 25	10 05 46.5			150 12 00	22 06 00		845302
36869	BAGUIO CITY, PH.IS.	0504	12 25	10 08 45.8			148 49 12	10 21 00		845302
36633	CINCINNATI, OHIO	0050	12 25	23 34 57.4			229 48	15 24		845002
36715	N. CANTON, OHIO	8536	12 25	23 36 10.7	21 22	-24 56				841042
36694	STATE COLLEGE, PA.	8603	12 25	23 38 08.8			234 36	7 30		845302
36656	SAN JOSE, CAL.	8573	12 26	1 34 19.7	22 55 20	-29 20				845002
11760	VILLA DOLORES, BN, ARG	9011	12 26	2 05 10.52	6 25 00	-63 00				434023
11761	VILLA DOLORES, BN, ARG	9011	12 26	4 06 56.32	1 50 30	-68 40				434023
11763	VILLA DOLORES, BN, ARG	9011	12 26	6 06 24.82	1 32 00	-43 40				434023
11764	VILLA DOLORES, BN, ARG	9011	12 26	6 20 00.74	12 32 48	-48 22				434023
11762	VILLA DOLORES, BN, ARG	9011	12 26	8 22 55.03	10 29 36	-33 38				434023
36909	KAGOSHIMA, JAPAN	0216	12 26	9 23 14	21 03	-17 24				845002
36908	MIYAZAKI, JAPAN	0230	12 26	9 23 59.5	21 24 00	-22 42				845004
36907	KONKO, JAPAN	0224	12 26	9 25 34.6	22 06 00	-33 36				845002
36870	BAGUIO CITY, PH.IS.	0504	12 26	11 22 10.4			274 03 00	4 52 48		845302
36871	BAGUIO CITY, PH.IS.	0504	12 26	11 28 37.7			249 28 48	15 28 12		845302
36872	BAGUIO CITY, PH.IS.	0504	12 26	11 38 20			178 22 48	2 01 12		845302
11745	WOOMERA, BN, AUSTR.	9003	12 26	11 42 38.75	1 32 30	-20 21				434013
11746	WOOMERA, BN, AUSTR.	9003	12 26	16 03 10.19	12 30 30	-53 38				434023
55945	RODEWISCH, GER.	2733	12 26	17 07 24.4	20 18 06	-18 18				834009
55946	RODEWISCH, GER.	2733	12 26	17 07 41.3	20 24 00	-19 00				834009
11750	CURACAO, BN, N.M.I.	9009	12 26	23 05 10.69	19 50 30	-18 20				434013
11751	CURACAO, BN, N.M.I.	9009	12 26	23 13 30.90	0 14 00	-47 19				434023
36901	ALBUQUERQUE, N.M.	8534	12 27	0 58 58.7	20 43 36	-12 30				845042
36902	ALBUQUERQUE, N.M.	8534	12 27	1 02 36.7	22 05 36	-33 42				845042
11777	VILLA DOLORES, BN, ARG	9011	12 27	1 24 11.75	1 09 18	-24 40				434023
11778	VILLA DOLORES, BN, ARG	9011	12 27	3 31 35.71	1 28 00	-65 50				434023
11779	VILLA DOLORES, BN, ARG	9011	12 27	5 42 01.65	11 40 18	-62 53				434023
36910	YOKKAICHI, JAPAN	0258	12 27	8 51 56	22 05	-35 30				845002
11767	WOOMERA, BN, AUSTR.	9003	12 27	11 08 21.77	1 54 42	-17 01				434013
36834	SYDNEY, AUSTR.	0602	12 27	11 14 34.6	3 08	-49 30				845049
36835	SYDNEY, AUSTR.	0602	12 27	11 16 07.6	4 42 30	-57 12				845049
36836	SYDNEY, AUSTR.	0602	12 27	11 17 57.6	6 45	-58 42				845049
11776	NAINI TAL, BN, INDIA	9006	12 27	12 46 24.65	24 25 24	-28 41				434023
11768	WOOMERA, BN, AUSTR.	9003	12 27	13 17 30.79	5 11 30	-77 15				434023
11766	WOOMERA, BN, AUSTR.	9003	12 27	15 23 05.64	7 45 06	-82 51				434023
11771	MAUI, BN, HAWAII	9012	12 27	15 51 30.11	12 58 42	-54 33				434023
11772	OLIFANTSFENT, BN, S.AF.	9002	12 27	18 59 32.53	0 58 24	-47 53				434023
56152	USUMINAS	8145	12 27	19 00 26.2	1 38	-55 24				845041
56153	USUMINAS	8145	12 27	22 50 11.7	4 16 00	-45 15				845009
56154	USUMINAS	8145	12 27	22 51 03.9	4 53 30	-51 36				845009
56155	USUMINAS	8145	12 27	22 53 22.7	4 07 42	-62 24				845009
36697	SACRAMENTO, CAL.	8517	12 28	1 24 38.0	20 35 34	-24 15				641043
36698	SACRAMENTO, CAL.	8517	12 28	1 25 04.8	20 49 18	-27 02				641043
36791	PUEBLA, MEX.	0900	12 28	5 21 36.5	13 16 54	-55 29				845043
36716	QUEZON CITY, PH.IS.	0500	12 28	10 16 30.5			263	20		845302
36717	QUEZON CITY, PH.IS.	0500	12 28	10 17 24			254	23		845302
36875	BAGUIO CITY, PH.IS.	0504	12 28	10 17 27.7			247 15 36	23 43 12		845302
36876	BAGUIO CITY, PH.IS.	0504	12 28	10 18 58.4			230 36 00	25 34 46		845302
36877	BAGUIO CITY, PH.IS.	0504	12 28	10 23 06.1			192 37 48	18 54 00		845302
36718	QUEZON CITY, PH.IS.	0500	12 28	10 23 29			193 30	20		845302
36792	SYDNEY, AUSTR.	0602	12 28	10 42 58.7	6 27	-53 48				845049
11773	WOOMERA, BN, AUSTR.	9003	12 28	12 40 12.16	1 32 00	-65 25				434023
36793	SYDNEY, AUSTR.	0602	12 28	12 48 57.5	9 47	-68 18				845049
36788	ADELAIDE, AUSTR.	8528	12 28	14 45 43.4	4 22	-68 48				845042
11774	WOOMERA, BN, AUSTR.	9003	12 28	14 47 35.22	5 42 00	-63 34				434023
36789	ADELAIDE, AUSTR.	8528	12 28	14 51 12.7	10 48	-64 10				845042
36790	ADELAIDE, AUSTR.	8528	12 28	14 54 34.4	11 53	-44 24				845042
36797	ADELAIDE, AUSTR.	8528	12 28	16 54 42.6	9 09	-59 00				845042
11775	WOOMERA, BN, AUSTR.	9003	12 28	16 55 07.60	10 23 30	-62 30				434023
36798	ADELAIDE, AUSTR.	8528	12 28	16 57 19	11 04	-42 18				845042
36794	PRETORIA, S.AFR.	0405	12 28	18 21 46.4	23 43 18	-19 36				845011
55675	TULEAR, MADAG.	6404	12 28	18 25 30.0			236 12	29 00		845309
55676	TULEAR, MADAG.	6404	12 28	18 26 00.0			232 18	30 30		845309
55677	TULEAR, MADAG.	6404	12 28	18 27 00.0			224 00	33 12		845309
55678	TULEAR, MADAG.	6404	12 28	18 28 00.0			215 18	35 36		845309
55679	TULEAR, MADAG.	6404	12 28	18 29 00.0			205 42	35 36		845309
55680	TULEAR, MADAG.	6404	12 28	18 30 00.0			196 24	35 42		845309
55681	TULEAR, MADAG.	6404	12 28	18 31 00.0			188 00	35 00		845309
55682	TULEAR, MADAG.	6404	12 28	18 32 00.0			179 48	33 24		845309
55683	TULEAR, MADAG.	6404	12 28	18 33 00.0			172 12	31 24		845309
55684	TULEAR, MADAG.	6404	12 28	18 34 00.0			165 30	28 42		845309
55685	TULEAR, MADAG.	6404	12 28	18 35 00.0			160 18	26 24		845309
55686	TULEAR, MADAG.	6404	12 28	18 36 00.0			155 30	23 36		845309
55687	TULEAR, MADAG.	6404	12 28	18 37 00.0			151 00	20 36		845309
55688	TULEAR, MADAG.	6404	12 28	18 38 00.0			147 18	18 00		845309
55689	TULEAR, MADAG.	6404	12 28	18 39 00.0			144 00	15 12		845309
55690	TULEAR, MADAG.	6404	12 28	18 40 00.0			141 00	12 42		845309
36659	SACRAMENTO, CAL.	8517	12 28	19 40 48.0			0 00	37 55		641304
36719	QUEZON CITY, PH.IS.	0500	12 28	21 09 28			169 30	26		845302
36720	QUEZON CITY, PH.IS.	0500	12 28	21 12 45			142 30	34		845302
36721	QUEZON CITY, PH.IS.	0500	12 28	21 15 59			107 00	31		845302
36660	SACRAMENTO, CAL.	8517	12 28	21 44 04.8			0 00	53 19		641304

OBS NO	STATION	STA NO	DATE	TIME	R. A.	DECL.	AZIMUTH	ALTITUDE	RANGE	INDEX
36722	SACRAMENTO, CAL.	8517	12 29	1 52 28.5	21 12 00	-55 09				643043
11789	CURACAO*BN, N.W.I.	9009	12 29	8 30 06.97	13 38 54	-49 13				434023
11790	CURACAO*BN, N.W.I.	9009	12 29	8 34 01.51	14 50 24	-27 17				434023
36794	SYDNEY, AUSTR.	0602	12 29	10 08 05.4	6 13	-48 12				845049
36795	SYDNEY, AUSTR.	0602	12 29	10 10 01.09	7 29	-46 36				845049
36796	SYDNEY, AUSTR.	0602	12 29	10 11 12.2	8 04	-45				845049
11781	JUPITER*BN, FLA.	9010	12 29	10 52 21.74	12 29 46	-48 44				434023
11782	JUPITER*BN, FLA.	9010	12 29	10 53 55.05	13 09 14	-43 28				434023
11783	JUPITER*BN, FLA.	9010	12 29	10 54 18.28	13 19 39	-41 50				434023
36799	ADELAIDE, AUSTR.	8528	12 29	12 04 05.9	1 16	-45 36				845042
11765	MOONER*BN, AUSTR.	9003	12 29	12 05 25.26	2 39 00	-68 08				434023
36800	ADELAIDE, AUSTR.	8528	12 29	12 12 41	2 23	-53 03				845046
36802	SYDNEY, AUSTR.	0602	12 29	12 13 25.5	3 06	-68 36				845047
36724	ALBUQUERQUE, N.M.	0041	12 29	12 57 50.0	15 15	-19 00				845041
36725	ALBUQUERQUE, N.M.	0041	12 29	13 01 00.5	16 47	-8 45				845041
36726	ALBUQUERQUE, N.M.	0041	12 29	13 02 47.2	17 58	12 30				845041
36801	ADELAIDE, AUSTR.	8528	12 29	14 06 37	1 08	-57 06				845042
11786	MOONER*BN, AUSTR.	9003	12 29	14 09 44.07	6 55 30	-71 33				434023
36819	ADELAIDE, AUSTR.	8528	12 29	15 14 27.2	7 28	-12 06				845046
11787	MOONER*BN, AUSTR.	9003	12 29	16 19 40.64	10 15 30	-66 10				434023
11788	MOONER*BN, AUSTR.	9003	12 29	16 22 00.25	7 14 22	-71 22				434023
11799	SYDNEY, AUSTR.	9005	12 29	20 47 20.70	15 35 30	-15 23				845043
36723	SACRAMENTO, CAL.	8517	12 29	21 09 10.5			0 00	47 26		643043
11794	VILLA LOLORES*BN, ARG.	9011	12 30	1 46 36.34	1 41 06	-65 56				434023
11792	SHIRAZ*BN, IRAN	9008	12 30	2 36 56.76	1 21 48	-71 14				434023
11745	VILLA LOLORES*BN, ARG.	9011	12 30	3 47 41.12	0 21 36	-50 17				434023
11796	VILLA LOLORES*BN, ARG.	9011	12 30	3 58 23.27	1 23 00	-57 12				434023
11791	SAN FERNANDO*BN, SP.	9004	12 30	6 33 45.50	15 25 34	-18 14				434023
11793	CURACAO*BN, N.W.I.	9009	12 30	10 16 13.61	10 00 24	-39 03				434023
36809	PUEBLA, MEX.	0700	12 30	10 16 40.68	17 35 30	-35 06				845043
36810	PUEBLA, MEX.	0700	12 30	10 17 44.26	17 49 48	-30 24				845043
36803	SYDNEY, AUSTR.	0602	12 30	11 30 57.2	0 33 30	-45 12				845047
36804	SYDNEY, AUSTR.	0602	12 30	11 38 42.0	7 00	-64 18				845047
36811	PUEBLA, MEX.	0700	12 30	12 19 11.0	18 55 42	-12 55				845043
36812	PUEBLA, MEX.	0700	12 30	12 19 51.2	12 25 18	-17 24				845043
36807	SACRAMENTO, CAL.	8517	12 30	14 24 55.7	16 01 22	-7 21				643043
36808	SACRAMENTO, CAL.	8517	12 30	20 34 20.7			0 00	43 27		643043
11797	VILLA LOLORES*BN, ARG.	9011	12 31	1 09 27.50	0 10 42	-49 08				434023
11798	VILLA LOLORES*BN, ARG.	9011	12 31	1 13 47.42	5 32 54	-71 20				434023
36820	ADELAIDE, AUSTR.	8528	12 31	10 54 46	1 01	-44 48				845042
36815	SYDNEY, AUSTR.	0602	12 31	10 57 21.2	1 00	-56 18				845047
36816	SYDNEY, AUSTR.	0602	12 31	11 03 52.7	0 52	-50				845047
36817	N. CANTON, OHIO	8536	12 31	11 50 08	12 18	-30 12				643044
36727	CINCINNATI, OHIO	0050	12 31	11 53 45.0			23 00	27 24		643044
36818	N. CANTON, OHIO	8536	12 31	11 54 17.1	13 22	-10 14				643044
36813	SYDNEY, AUSTR.	0602	12 31	12 56 58.3	0 00	-46 42				845047
36814	SYDNEY, AUSTR.	0602	12 31	13 01 40.2	0 48	-62 18				845047
36815	SYDNEY, AUSTR.	0602	12 31	13 07 32.6	9 47	-65 36				845047
36811	CAPETOWN, S.AFR.	0402	12 31	18 41 19.4			241 00	75 30		845302
36812	CAPETOWN, S.AFR.	0402	12 31	18 49 16.0			132 30	52 12		845302
36813	CAPETOWN, S.AFR.	0402	12 31	18 54 46.9			217 30	62 44		845302
11795	SYDNEY, AUSTR.	9005	12 31	19 37 37.70	14 54 42	-12 10				434023
36816	SACRAMENTO, CAL.	8517	12 31	19 59 18.6			0 00	40 52		643044
36828	SAN JOSE, CAL.	8573	12 31	20 00 01.0			0 30 00	32 35 00		845304
36878	BAGUIO CITY, PHILS.	0504	12 31	21 31 36.2			167 32 11	69 20 00		845302
36879	BAGUIO CITY, PHILS.	0504	12 31	21 33 36.7			75 40 40	69 34 22		845302
36880	BAGUIO CITY, PHILS.	0504	12 31	21 36 36.2			59 36 36	57 24 36		845302

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ADDITIONS TO OBSERVATION LISTINGS PREVIOUSLY PUBLISHED IN JAO
SPECIAL REPORTS FOR THE YEAR 1960.

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56330	SLOUGH	8146	8 12	23 11 00	19 10 03	-1 22				637009
56301	SLOUGH	8146	8 12	23 12 00	19 34 47	1 53				637009
55721	POTSDAM, GER.	2729	8 12	23 17 44.0	21 46 10	10 24				834009
55722	POTSDAM, GER.	2729	8 12	23 18 01.8	22 10 06	12 24				834009
55723	POTSDAM, GER.	2729	8 12	23 19 02.7	23 26 24	23 30				834009
55724	POTSDAM, GER.	2729	8 12	23 19 37.7	23 57 18	23 24				834009
55081	SAN SALVADOR M5	5037	8 13	0 56 36			197 26 12	57 15 36		000309
55082	SAN SALVADOR M5	5037	8 13	0 57 30			140 39 10	57 23 24		000309
55083	SAN SALVADOR M5	5037	8 13	0 58 30			125 30	46 26 42		000309
55084	SAN SALVADOR M5	5037	8 13	0 59 30			112 45 30	39 21 00		000309
55085	SAN SALVADOR M5	5037	8 13	1 00 30			98 52 36	30 01 30		000309
55086	SAN SALVADOR M5	5037	8 13	1 01 30			88 16 06	24 55 48		000309
55087	SAN SALVADOR M5	5037	8 13	1 02 30			80 26 36	17 17 24		000309
55088	SAN SALVADOR M5	5037	8 13	1 03 30			74 39 36	12 40 12		000309
55089	SAN SALVADOR M5	5037	8 13	1 04 30			69 58 30	10 33 36		000309
55090	SAN SALVADOR M5	5037	8 13	1 05 15			61 04 12	15 29 24		000309
55091	SAN SALVADOR M5	5037	8 13	1 06 30			63 07 30	11 00 00		000309
55092	SAN SALVADOR M5	5037	8 13	1 07 12			61 20 06	8 37 48		000309
55068	BAHAMAS M3	3908	8 13	2 59 30			252 61 48	42 58 48		000309
55069	BAHAMAS M3	3908	8 13	3 00 30			259 54 00	52 31 48		000309
55070	BAHAMAS M3	3908	8 13	3 01 30			274 57 12	61 52 12		000309
55071	BAHAMAS M3	3908	8 13	3 02 30			315 14 24	60 52 24		000309
55072	BAHAMAS M3	3908	8 13	3 03 03			335 28 48	67 43 12		000309

OBS NO	STATION	STA NO	DATE	TIME	R. A.	DECL.	AZIMUTH	ALTITUDE	RANGE	INDEX
55073	BAHAMAS M3	3908	8 13	3 04 00			4 10 48	59 57 36		000309
55074	BAHAMAS M3	3908	8 13	3 05 00			17 18 36	52 54 36		000309
55075	BAHAMAS M3	3908	8 13	3 06 00			27 18 00	43 34 48		000309
54943	WARD HILL P. N.Y.	5088	8 13	3 06 25	20 51	10 36				637007
55076	BAHAMAS M3	3908	8 13	3 07 00			34 00 00	35 52 12		000309
55077	BAHAMAS M3	3908	8 13	3 08 00			37 12 00	27 19 12		000309
55078	BAHAMAS M3	3908	8 13	3 12 58			45 27 00	6 04 42		000309
55079	BAHAMAS M3	3908	8 13	3 13 58			46 19 48	2 47 24		000309
55080	BAHAMAS M3	3908	8 13	3 14 28			46 48 36	1 11 24		000309
55725	RODEWISCH, GER.	2733	8 13	20 52 18.3	21 35 18	2 18				834009
55726	RODEWISCH, GER.	2733	8 13	20 55 21.0	23 22 42	11 18				834009
55729	SONNEBERG, GER.	2730	8 13	22 53 33.6	20 02 42	17 00				834009
55730	SONNEBERG, GER.	2730	8 13	22 56 46.4	23 02 00	27 36				834009
55727	RODEWISCH, GER.	2733	8 14	0 55 29.0	19 04 24	20 30				834009
55731	SONNEBERG, GER.	2730	8 14	0 56 12.1	19 28 48	24 24				834009
55728	RODEWISCH, GER.	2733	8 14	0 56 47.5	19 46 06	25 30				834009
55732	SONNEBERG, GER.	2730	8 14	1 02 20.2	0 51 42	28 06				834009
55050	BOCHUM, GER.	8599	8 14	1 06 03.7	2 24 06	8 00				845002
54945	ALPINE P. CAL.	5089	8 14	8 54 01.0	4 41 00	64 36				637007
54946	ALPINE P. CAL.	5089	8 14	8 54 11.0	4 42 30	63 06				637007
54947	ALPINE P. CAL.	5089	8 14	10 55 10.0	20 00 00	72 06				637007
54948	ALPINE P. CAL.	5089	8 14	10 58 15.0	0 30	89 00				637007
54949	ALPINE P. CAL.	5089	8 14	10 59 15.0	3 27 00	66 24				637007
54950	ALPINE P. CAL.	5089	8 14	11 04 01.0	5 31 30	12 30				637007
55048	BOCHUM, GER.	8599	8 14	22 31 00	19 50 34	2 36				845002
55049	BOCHUM, GER.	8599	8 14	22 34 53.6	23 09 00	21 12				845002
54951	ALPINE P. CAL.	5089	8 15	10 40 04.0	4 53 36	34 00				637007
54952	ALPINE P. CAL.	5089	8 15	10 40 30.0	4 58 18	30 51				637007
55733	RODEWISCH, GER.	2733	8 15	20 02 54.6	18 01 48	-23 30				834009
55734	RODEWISCH, GER.	2733	8 15	20 03 01.3	18 04 18	-22 54				834009
55735	RODEWISCH, GER.	2733	8 15	20 04 24.2	18 42 48	-18 06				834009
55736	RODEWISCH, GER.	2733	8 15	20 05 15.6	19 03 30	-15 30				834009
55737	RODEWISCH, GER.	2733	8 15	20 06 08.6	19 28 42	-12 06				834009
55738	RODEWISCH, GER.	2733	8 15	20 10 31.8	21 59 12	5 18				834009
55739	RODEWISCH, GER.	2733	8 15	22 09 09.8	18 33 42	5 12				834009
56302	SLOUGH	8146	8 15	22 09 57.1	21 04 32	10 12				637009
56303	SLOUGH	8146	8 15	22 10 08.25	21 12 04	10 14				637009
56304	SLOUGH	8146	8 15	22 10 13.8	21 13 10	10 15				637009
55740	RODEWISCH, GER.	2733	8 15	22 15 26.2	23 58 54	25 54				834009
56305	SLOUGH	8146	8 16	0 14 40.5	22 31 18	30 36				637009
55051	BOCHUM, GER.	8599	8 16	0 14 47.2	19 31 00	50 04				845002
56306	SLOUGH	8146	8 16	0 15 10.5	22 50 49	30 40				637009
55052	BOCHUM, GER.	8599	8 16	0 17 36	0 05 12	27 13				845002
55053	BOCHUM, GER.	8599	8 16	0 20 02.7	1 45 18	19 37				845002
54953	ALPINE P. CAL.	5089	8 16	5 59 56	17 10 18	52 43				637007
54954	ALPINE P. CAL.	5089	8 16	10 17 45.0	4 43 18	34 24				637007
54955	ALPINE P. CAL.	5089	8 16	10 18 25	4 47 24	31 54				637007
55741	RODEWISCH, GER.	2733	8 16	19 41 13.3	17 53 12	-24 18				834009
55054	BOCHUM, GER.	8599	8 16	21 33 18.1	19 46 46	9 18				845002
55055	BOCHUM, GER.	8599	8 16	21 37 16.7	23 00 58	20 16				845002
55743	RODEWISCH, GER.	2733	8 16	21 54 17.4	22 30 12	25 42				834009
55744	RODEWISCH, GER.	2733	8 16	21 55 17.6	0 45 24	22 36				834009
55056	BOCHUM, GER.	8599	8 16	23 38 19.3	19 29 00	51 12				845002
55057	BOCHUM, GER.	8599	8 16	23 39 59.3	22 54 00	30 54				845002
55058	BOCHUM, GER.	8599	8 16	23 43 34.4	1 42 00	18 54				845002
55745	RODEWISCH, GER.	2733	8 16	23 51 12.6	18 46 54	22 30				834009
55746	RODEWISCH, GER.	2733	8 16	23 52 52.0	19 41 30	28 48				834009
55747	RODEWISCH, GER.	2733	8 16	23 53 21.9	20 05 18	30 24				834009
55742	RODEWISCH, GER.	2733	8 16	24 33 11.9	10 31 30	-81 24				834009
55748	RODEWISCH, GER.	2733	8 17	0 02 17.7	2 57 06	8 42				834009
54944	WARD HILL P. N.Y.	5088	8 17	3 43 12.1	20 43 18	37 36				637007
54956	ALPINE P. CAL.	5089	8 18	5 16 27.0	4 34 12	60 32				637007
54957	ALPINE P. CAL.	5089	8 18	5 16 46.0	4 44 24	59 18				637007
54958	ALPINE P. CAL.	5089	8 18	5 22 27.0	16 54 00	60 12				637007
54959	ALPINE P. CAL.	5089	8 18	5 22 47.0	17 05 18	63 00				637007
54960	ALPINE P. CAL.	5089	8 18	9 36 00.8	4 35 00	27 24				637007
54961	ALPINE P. CAL.	5089	8 18	9 36 16.0	4 37 24	25 54				637007
55749	RODEWISCH, GER.	2733	8 18	19 02 30.2	19 41 54	-8 54				834009
55750	RODEWISCH, GER.	2733	8 18	21 06 11.5	19 43 12	16 00				834009
56307	FARNBOROUGH	8063	8 18	21 07 32.2	22 59 19	10 34				637009
56308	FARNBOROUGH	8063	8 18	21 08 02.2	23 03 28	10 51				637009
55059	BOCHUM, GER.	8599	8 18	22 55 43.7	19 33	50 20				845002
55060	BOCHUM, GER.	8599	8 18	22 56 37.9	23 39 30	28 24				845002
56309	FARNBOROUGH	8063	8 18	23 11 51.0	23 57 25	26 22				637009
56310	FARNBOROUGH	8063	8 18	23 12 21.0	0 17 18	24 40				637009
55061	BOCHUM, GER.	8599	8 18	23 15 51.3	1 36 15	17				845002
54962	ALPINE P. CAL.	5089	8 19	9 12 00.0	4 01 00	45 00				637007
54963	ALPINE P. CAL.	5089	8 19	9 12 14.0	4 03 30	40 18				637007
56064	SONNEBERG, GER.	2730	8 19	20 42 02.0	17 58 36	4 48				834009
55923	POTSDAM, GER.	2729	8 19	20 42 19.2	18 01 27	0 36				834009
55962	BOCHUM, GER.	8599	8 19	20 43 52.4	19 46 42	9 09				845002
55751	RODEWISCH, GER.	2733	8 19	20 44 00.1	19 09 24	12 18				834009
55063	BOCHUM, GER.	8599	8 19	20 44 47.5	20 31 12	13 00				845002
55954	POTSDAM, GER.	2729	8 19	20 45 26.0	20 11 03	13 24				834009
55064	BOCHUM, GER.	8599	8 19	20 48 11.3	23 01 17	18 00				845002
55753	SONNEBERG, GER.	2730	8 19	20 49 10.0	23 11 48	22 06				834009
55955	POTSDAM, GER.	2729	8 19	20 49 34.7	23 22 48	18 38				834009
56138	COPN-V-P	5098	8 19	20 49 36.4	23 18 26	11 42				637009
56139	COPN-V-P	5098	8 19	20 49 37.4	23 19 54	11 42				637009

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56065	SONNEBERG, GER.	2730	8 19	20 53 02.8	1 12 00	15 54				834049
55956	POTSDAM, GER.	2729	8 19	22 41 50.2	16 38 06	3 42				834049
56066	SONNEBERG, GER.	2730	8 19	22 43 45.4	17 03 30	12 42				834049
55065	BOCHUM, GER.	8599	8 19	22 43 57.1	17 37 53	27 34				845002
55066	BOCHUM, GER.	8599	8 19	22 46 37.2	19 12 00	50 15				845002
55957	POTSDAM, GER.	2729	8 19	22 49 11.7	20 39 26	27 18				834049
55067	BOCHUM, GER.	8599	8 19	22 50 08.2	22 37 56	30 10				845002
55754	SONNEBERG, GER.	2730	8 19	22 51 23.5	23 22 54	32 12				834009
56067	SONNEBERG, GER.	2730	8 19	22 52 15.7	0 06 18	28 54				834049
55958	POTSDAM, GER.	2729	8 19	22 55 28.5	1 31 54	12 28				834049
55068	BOCHUM, GER.	8599	8 19	22 56 36.9	2 25 13	11 36				845002
55755	SONNEBERG, GER.	2730	8 20	0 55 57.7	0 08 30	14 06				834009
56068	SONNEBERG, GER.	2730	8 20	0 57 20.1	1 00 48	7 42				834049
55752	RODEWISCH, GER.	2733	8 20	1 04 23.6	3 23 30	-15 48				834009
54964	ALPINE P, CAL.	5089	8 20	8 51 00.0	3 59 30	39 00				637007
54965	ALPINE P, CAL.	5089	8 20	8 57 15.0	2 01 30	36 36				637007
55959	POTSDAM, GER.	2729	8 21	19 56 04.0	16 26 54	-10 29				834049
55960	POTSDAM, GER.	2729	8 21	19 58 43.6	17 40 24	-1 18				834049
56142	COPN-V-P	5098	8 21	20 01 44.0	19 42 42	3 30				637009
55961	POTSDAM, GER.	2729	8 21	20 01 51.3	19 49 24	11 28				834049
56141	COPN-V-P	5098	8 21	20 02 01.0	19 59 12	4 30				637009
55962	POTSDAM, GER.	2729	8 21	22 04 15.8	19 01 42	23 19				834049
55069	BOCHUM, GER.	8599	8 21	22 05 26.3	19 30 00	51 36				845002
35 10	BOCHUM, GER.	8599	8 21	22 06 55.6	22 00 30	26 12				845002
55963	POTSDAM, GER.	2729	8 21	22 07 08.9	21 54 00	27 24				834049
55964	POTSDAM, GER.	2729	8 21	22 10 12.6	0 18 57	18 30				834049
55965	POTSDAM, GER.	2729	8 22	0 04 12.4	17 54 48	15 10				834049
55966	POTSDAM, GER.	2729	8 22	0 08 14.5	20 10 18	20 03				834049
55967	POTSDAM, GER.	2729	8 22	0 11 58.1	23 13 18	11 59				834049
54966	ALPINE P, CAL.	5089	8 22	8 07 03.0	32 30	40 00				637007
54967	ALPINE P, CAL.	5089	8 22	8 07 15.0	33 00	38 36				637007
56069	SONNEBERG, GER.	2730	8 22	19 37 22.6	17 58 30	3 30				834049
35 71	BOCHUM, GER.	8599	8 22	19 39 09.3	19 46 15	9 24				845002
35 72	BOCHUM, GER.	8599	8 22	19 40 29.7	20 51 30	12 48				845002
55756	SONNEBERG, GER.	2730	8 22	19 40 51.6	20 43 36	17 48				834009
56070	SONNEBERG, GER.	2730	8 22	19 45 56.7	20 53 30	17 48				834049
56 71	SONNEBERG, GER.	2730	8 22	21 36 22.4	15 49 30	4 30				834049
56311	FARNBOROUGH	8063	8 22	21 39 55.2	28 15 42	18 08				637009
56312	FARNBOROUGH	8063	8 22	21 39 55.2	18 40 46	19 24				637009
55757	SONNEBERG, GER.	2730	8 22	21 43 10.8	19 46 54	32 48				834009
55959	POTSDAM, GER.	2729	8 22	21 44 04.3	20 45 12	27 30				834009
55960	POTSDAM, GER.	2729	8 22	21 44 19.7	20 42 24	27 42				834009
56313	FARNBOROUGH	8063	8 22	21 45 25.1	23 36 46	22 47				637009
56314	FARNBOROUGH	8063	8 22	21 45 55.2	23 43 40	21 43				637009
56 72	SONNEBERG, GER.	2730	8 22	21 51 13.6	1 35 30	11 48				834049
56315	FARNBOROUGH	8063	8 22	23 40 31.7	17 48 49	18 36				637009
55968	POTSDAM, GER.	2729	8 22	23 40 37.7	17 04 06	11 50				834049
56316	FARNBOROUGH	8063	8 22	23 41 01.7	17 48 01	21 01				637009
56073	SONNEBERG, GER.	2730	8 22	23 43 35.0	17 59 24	21 54				834049
55758	SONNEBERG, GER.	2730	8 22	23 45 53.3	19 49 24	28 18				834009
56317	FARNBOROUGH	8063	8 22	23 46 31.7	24 05 55	28 05				637009
56318	FARNBOROUGH	8063	8 22	23 47 01.7	24 31 10	28 40				637009
55969	POTSDAM, GER.	2729	8 22	23 48 21.0	21 36 18	18 46				834049
55 76	SONNEBERG, GER.	2730	8 22	23 51 03.7	0 04 30	13 30				834049
55970	POTSDAM, GER.	2729	8 22	23 57 17.2	0 45 30	-11 47				834049
55971	POTSDAM, GER.	2729	8 23	19 14 54.1	17 15 48	-3 42				834049
55 73	BOCHUM, GER.	8599	8 23	19 17 34.7	19 47 15	9 15				845002
55972	POTSDAM, GER.	2729	8 23	19 19 12.7	20 47 30	12 51				834049
55973	POTSDAM, GER.	2729	8 23	19 23 27.2	23 04 48	15 45				834049
55974	POTSDAM, GER.	2729	8 23	21 13 57.8	19 35 42	-0 06				834049
56075	SONNEBERG, GER.	2730	8 23	21 17 02.5	16 27 06	13 12				834049
56319	FARNBOROUGH	8063	8 23	21 20 23.3	20 39 40	28 46				637009
55761	SONNEBERG, GER.	2730	8 23	21 20 46.2	19 00 24	31 06				834009
56320	FARNBOROUGH	8063	8 23	21 20 56.3	21 18 00	26 49				637009
56143	COPN-V-P	5098	8 23	21 21 01.3	19 45 46	14 18				637009
56143	COPN-V-P	5098	8 23	21 21 33.3	19 51 24	15 12				637009
55975	POTSDAM, GER.	2729	8 23	21 23 01.3	21 08 09	27 21				834049
56321	FARNBOROUGH	8063	8 23	21 23 33.3	23 17 45	22 36				637009
56322	FARNBOROUGH	8063	8 23	21 23 33.3	23 49 01	21 22				637009
55 75	SONNEBERG, GER.	2730	8 23	21 27 36.6	0 48 42	17 42				834049
55976	POTSDAM, GER.	2729	8 23	21 32 29.8	1 53 03	1 56				834049
55762	SONNEBERG, GER.	2730	8 23	23 23 37.5	18 58 48	26 24				834009
56 77	SONNEBERG, GER.	2730	8 23	23 25 42.0	20 51 24	27 30				834049
56076	SONNEBERG, GER.	2730	8 23	23 29 49.8	0 19 30	11 06				834049
56079	SONNEBERG, GER.	2730	8 24	18 56 12.6	19 37 30	14 18				834049
55763	RODEWISCH, GER.	2733	8 24	18 56 32.5	19 40 30	13 48				834009
56080	SONNEBERG, GER.	2730	8 24	20 53 06.6	15 44 06	7 16				834049
55764	RODEWISCH, GER.	2733	8 24	20 53 26.8	15 35 36	5 42				834009
55977	POTSDAM, GER.	2729	8 24	20 55 52.4	16 39 15	11 46				834049
56144	COPN-V-P	5098	8 24	20 59 34.0	19 35 08	14 42				637009
56145	COPN-V-P	5098	8 24	20 59 48.0	19 48 24	15 00				637009
35 74	BOCHUM, GER.	8599	8 24	20 59 59.3	19 27 45	51 36				845002
55978	POTSDAM, GER.	2729	8 24	21 00 02.3	19 49 36	26 22				834049
55767	SONNEBERG, GER.	2730	8 24	21 02 22.6	22 41 06	30 00				834009
35 75	BOCHUM, GER.	8599	8 24	21 04 21.3	0 08 30	17 42				845002
55979	POTSDAM, GER.	2729	8 24	21 05 05.2	23 59 03	16 48				834049
56081	SONNEBERG, GER.	2730	8 24	21 06 08.8	0 46 30	16 08				834049
56082	SONNEBERG, GER.	2730	8 24	23 02 05.8	19 30 30	28 18				834049
56083	SONNEBERG, GER.	2730	8 24	23 05 47.5	22 34 30	22 00				834049
56084	SONNEBERG, GER.	2730	8 24	23 08 05.5	0 00 00	17 30				834049

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56011	WALNUT CREEK, CAL.	8556	8 25	4 52 10.2	0 04 00	58 12				845003
54968	ALPINE*P. CAL.	5089	8 25	7 00 22.8	2 52	49				637007
54969	ALPINE*P. CAL.	5089	8 25	7 00 29.2	3 00	45				637007
56085	SONNEBERG, GER.	2730	8 25	20 32 16.2	15 40 30	8 00				834049
55770	RODEWISCH, GER.	2733	8 25	20 32 42.8	15 45 42	9 12				834009
55768	SONNEBERG, GER.	2730	8 25	20 36 20.5	18 05 36	27 36				834009
56086	SONNEBERG, GER.	2730	8 25	20 41 44.3	23 25 12	24 54				834049
55765	RODEWISCH, GER.	2733	8 25	22 35 56.9	16 47 18	16 18				834009
56323	FARNBOROUGH	8063	8 25	22 36 02.3	17 08 46	21 29				637009
56324	FARNBOROUGH	8063	8 25	22 36 17.3	17 17 49	22 24				637009
56325	FARNBOROUGH	8063	8 25	22 36 32.3	17 28 18	23 18				637009
56326	FARNBOROUGH	8063	8 25	22 36 47.3	17 36 27	24 09				637009
56087	SONNEBERG, GER.	2730	8 25	22 39 12.1	18 06 12	26 00				834049
56088	SONNEBERG, GER.	2730	8 25	22 43 58.3	22 39 30	22 12				834049
56327	FARNBOROUGH	8063	8 25	22 44 01.3	0 08 07	15 11				637009
56328	FARNBOROUGH	8063	8 25	22 44 47.3	0 25 40	12 08				637009
56329	FARNBOROUGH	8063	8 25	22 45 17.3	0 42 07	10 11				637009
56089	SONNEBERG, GER.	2730	8 25	22 45 56.5	0 02 00	12 06				834049
55766	RODEWISCH, GER.	2733	8 26	0 39 39.1	18 05 24	13 42				834009
54970	ALPINE*P. CAL.	5089	8 26	6 37 00.0	3 34 24	57 36				637007
54971	ALPINE*P. CAL.	5089	8 26	6 38 05.2	3 47 48	47 54				637007
54972	ALPINE*P. CAL.	5089	8 26	6 36 16.8	13 00 00	56 00				637007
55980	POTSDAM, GER.	2729	8 26	20 11 56.2	16 13 48	9 54				834049
55090	SONNEBERG, GER.	2730	8 26	20 13 10.2	16 54 36	20 48				834049
55981	POTSDAM, GER.	2729	8 26	20 16 01.0	19 21 12	25 18				834049
56330	FARNBOROUGH	8063	8 26	20 16 39.5	22 01 13	23 16				637009
56331	FARNBOROUGH	8063	8 26	20 17 15.9	22 24 37	22 21				637009
56391	SONNEBERG, GER.	2730	8 26	20 17 24.5	21 17 54	32 06				834049
56332	FARNBOROUGH	8063	8 26	20 17 43.9	22 42 22	21 22				637009
55769	SONNEBERG, GER.	2730	8 26	20 19 33.6	23 05 00	25 18				834009
55772	POTSDAM, GER.	2729	8 26	20 20 17.4	23 06 36	19 30				834009
55982	POTSDAM, GER.	2729	8 26	20 20 55.1	23 26 30	17 26				834049
56392	SONNEBERG, GER.	2730	8 26	20 21 39.7	0 07 00	18 00				834049
56093	SONNEBERG, GER.	2730	8 26	22 13 08.1	15 55 00	14 48				834049
56094	SONNEBERG, GER.	2730	8 26	22 18 56.7	19 41 06	19 54				834049
55773	POTSDAM, GER.	2729	8 26	22 19 07.0	19 50 30	22 36				834009
56095	SONNEBERG, GER.	2730	8 26	22 23 17.4	23 29 30	15 54				834049
56396	SONNEBERG, GER.	2730	8 27	0 20 23.5	19 03 24	13 54				834049
54973	ALPINE*P. CAL.	5089	8 27	6 15 00.0	2 44 00	56 48				637007
54974	ALPINE*P. CAL.	5089	8 27	6 15 58	2 32 12	47 24				637007
54975	ALPINE*P. CAL.	5089	8 27	6 13 20	13 44 30	35 30				637007
54976	ALPINE*P. CAL.	5089	8 27	6 14 23.0	17 45 00	58 24				637007
56097	SONNEBERG, GER.	2730	8 27	19 51 54.3	17 19 42	24 00				834049
56098	SONNEBERG, GER.	2730	8 27	19 56 25.1	22 03 48	28 48				834049
56099	SONNEBERG, GER.	2730	8 27	20 00 31.0	0 11 30	15 12				834049
56100	SONNEBERG, GER.	2730	8 27	21 51 42.2	15 55 18	16 06				834049
55983	POTSDAM, GER.	2729	8 27	21 52 38.9	16 23 48	14 56				834049
56101	SONNEBERG, GER.	2730	8 27	21 56 01.4	16 19 30	28 54				834049
35076	BOCHUM, GER.	8599	8 27	21 56 31.5	19 33 18	29 12				845002
55984	POTSDAM, GER.	2729	8 27	21 57 00.2	19 10 12	23 03				834049
35077	BOCHUM, GER.	8599	8 27	21 59 32.9	22 33 54	20 00				845002
35078	BOCHUM, GER.	8599	8 27	22 00 15.8	23 01 42	17 00				845002
35079	BOCHUM, GER.	8599	8 27	22 00 44.0	23 04 54	15 00				845002
55985	POTSDAM, GER.	2729	8 27	22 01 24.1	22 59 45	11 10				834049
56102	SONNEBERG, GER.	2730	8 27	22 01 40.4	23 33 30	14 24				834049
55986	POTSDAM, GER.	2729	8 27	23 58 42.6	19 06 45	10 15				834049
55987	POTSDAM, GER.	2729	8 27	23 59 12.3	19 23 03	9 28				834049
56103	SONNEBERG, GER.	2730	8 27	23 59 51.8	19 41 00	12 18				834049
35080	BOCHUM, GER.	8599	8 28	19 31 28.4	19 30 00	26 36				845002
56104	SONNEBERG, GER.	2730	8 28	19 33 02.6	20 35 54	31 24				834049
55771	RODEWISCH, GER.	2733	8 28	19 35 55.4	22 47 18	23 36				834009
35081	BOCHUM, GER.	8599	8 28	19 36 03.7	23 00 30	18 36				845002
56333	FARNBOROUGH	8063	8 28	21 36 05.15	22 10 48	27 29				637009
56334	FARNBOROUGH	8063	28	21 36 35.15	22 31 51	25 46				637009
35082	BOCHUM, GER.	8599	28	22 37 01.6	21 55 30	23 12				845002
35083	BOCHUM, GER.	8599	8 28	22 39 51.6	23 50	10				845002
54977	ALPINE*P. CAL.	5089	8 29	5 35 53.0	2 05 00	55 18				637007
54978	ALPINE*P. CAL.	5089	8 29	5 37 34.0	2 13 30	43 18				637007
55988	POTSDAM, GER.	2729	8 29	19 10 25.0	19 21 39	24 20				834049
55989	POTSDAM, GER.	2729	8 29	19 11 55.6	20 50 24	23 54				834049
55990	POTSDAM, GER.	2729	8 29	21 08 51.1	16 02 12	15 26				834049
55774	POTSDAM, GER.	2729	8 29	21 09 06.3	19 55 42	23 12				834009
55991	POTSDAM, GER.	2729	8 29	21 14 01.2	19 54 33	23 16				834049
55992	POTSDAM, GER.	2729	8 29	21 18 12.1	23 12 18	8 18				834049
54979	ALPINE*P. CAL.	5089	8 30	5 08 00.0	0 53 48	61 12				637007
54980	ALPINE*P. CAL.	5089	8 30	5 10 42.0	1 57 48	40 48				637007
54981	ALPINE*P. CAL.	5089	8 30	7 08 30.4	17 21 00	65 54				637007
54982	ALPINE*P. CAL.	5089	8 30	7 09 10.0	10 09 00	68 54				637007
55775	POTSDAM, GER.	2729	8 30	18 49 58.4	20 48 12	23 06				834009

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55721	POTSDAM	2729	8 12	23 17 14.0	21 46 12	20 27				834049
55722	POTSDAM	2729	8 12	23 18 01.8	21 50 12	22 27				834049
55723	POTSDAM	2729	8 12	23 19 02.9	23 46 42	23 33				834049
55724	POTSDAM	2729	8 12	23 19 37.7	23 56 54	23 29				834049
55726	ROEWISCH, GER.	2733	8 13	22 55 21.0	23 22 42	11 18				834009
30898	WALNUT CREEK, CAL.	8556	8 15	8 22 45.2	3 52 00	39 54				845004
55742	ROEWISCH, GER.	2733	8 16	19 42 10.3	18 14 18	-22 06				834009
55743	ROEWISCH, GER.	2733	8 16	21 52 19.2	22 33 12	28 42				834009
55753	SONNEBERG	2730	8 19	20 49 10.0	23 31 48	22 06				834049
55754	SONNEBERG	2730	8 19	22 51 23.5	23 22 54	32 12				834049
55755	SONNEBERG	2730	8 20	0 55 57.7	0 07 30	14 06				834049
55756	SONNEBERG	2730	8 22	19 40 51.5	20 43 36	17 48				834049
55757	SONNEBERG	2730	8 22	21 43 10.2	19 46 54	32 48				834049
55758	SONNEBERG	2730	8 22	23 45 53.3	19 29 24	26 18				834049
55761	SONNEBERG	2730	8 23	21 20 46.2	19 00 24	31 06				834049
55762	SONNEBERG	2730	8 23	23 23 37.5	18 58 48	26 24				834049
55767	SONNEBERG	2730	8 24	21 02 22.6	22 41 06	30 00				834049
52713	WESTFIELD P. MASS.	5021	8 25	0 51 12	19 39	45 48				637007
55768	SONNEBERG	2730	8 25	20 36 20.5	18 05 36	27 36				834049
55769	SONNEBERG	2730	8 26	20 19 33.6	23 05 00	25 18				834049

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30090	ROCHESTER, N.Y.	8564	9 01	1 30 13.6	19 20 42	63 54				845005
30091	SACRAMENTO, CAL.	8517	9 01	3 24 43.2			0 00	53 48		845004
30096	CHINA LAKE, CAL.	0098	9 01	3 25 41.6			0 00	41 55 48		845003
30092	SACRAMENTO, CAL.	8517	9 01	5 29 40.8			0 00	54 04		845004
30134	VAN NUTS, CAL.	0113	9 01	5 30 34.0	20 57 16	82 56				845043
30097	CHINA LAKE, CAL.	0098	9 01	5 30 40.5			0 00	46 08 24		845003
30093	SACRAMENTO, CAL.	8517	9 02	5 04 59.8			0 00	52 56		845004
30076	SACRAMENTO, CAL.	8517	9 03	4 40 19.2			0 00	52 01		845004
30094	SACRAMENTO, CAL.	8517	9 04	4 25 38.0			0 00	54 06		845004
30095	SACRAMENTO, CAL.	8517	9 05	3 50 58.5			0 00	50 33		845004
30098	ROCHESTER, N.Y.	8564	9 06	1 31 47.8	19 27 42	54 39				845003
30099	SACRAMENTO, CAL.	8517	9 06	3 26 18.0			0 00	50 07		845004
30143	ROCHESTER, N.Y.	8564	9 07	1 07 01.6	18 58 36	56 48				845003
30100	ROCHESTER, N.Y.	8564	9 08	0 42 30.2	18 56 30	57 54				845003
30136	VAN NUTS, CAL.	0113	9 08	4 43 14.2	20 03 48	67 57				845043
10012	DOOMERPA, BN. AUST.	9003	9 10	18 21 32.99	0 00 00	-65 17				434023
10013	SAN FERNANDO, BN. SP.	9004	9 10	21 40 45.40	19 20 48	17 17				434013
10014	SAN FERNANDO, BN. SP.	9004	9 10	21 41 07.00	19 41 18	24 31				434013
10015	SAN FERNANDO, BN. SP.	9004	9 10	21 41 35.30	20 06 48	20 34				434013
10009	OLIFANTSFENTIN, BN. S. AF.	9002	9 11	2 15 02.00	21 48 00	-66 04				434023
10010	OLIFANTSFENTIN, BN. S. AF.	9002	9 11	2 15 43.00	21 47 12	-71 18				434023
10011	OLIFANTSFENTIN, BN. S. AF.	9002	9 11	2 16 33.70	21 41 12	-76 07				434023
10025	VILLA DOLORES, BN. ARG.	9011	9 11	8 07 13.51	22 39 00	-50 20				434023
10026	VILLA DOLORES, BN. ARG.	9011	9 11	8 10 15.76	0 44 00	-77 50				434023
10027	VILLA DOLORES, BN. ARG.	9011	9 11	8 12 55.92	0 46 00	-72 38				434023
10019	SHIRAZ, BN. IRAN	9008	9 11	17 21 38.29	21 03 54	45 42				434013
10016	SAN FERNANDO, BN. SP.	9004	9 11	21 15 58.30	19 02 42	32 34				434013
10017	SAN FERNANDO, BN. SP.	9004	9 11	21 16 02.30	19 06 48	31 04				434013
10018	SAN FERNANDO, BN. SP.	9004	9 11	21 16 38.30	19 44 48	17 18				434013
10022	JUPITER, BN. FLA.	9010	9 12	1 09 12.85	21 40 00	79 04				434013
10023	JUPITER, BN. FLA.	9010	9 12	1 10 38.29	22 56 48	65 08				434013
10031	OLIFANTSFENTIN, BN. S. AF.	9002	9 12	1 50 01.90	21 39 00	-64 23				434023
10032	OLIFANTSFENTIN, BN. S. AF.	9002	9 12	1 50 25.20	21 40 36	-67 23				434023
10033	OLIFANTSFENTIN, BN. S. AF.	9002	9 12	1 51 17.70	21 42 00	-75 44				434023
30105	SACRAMENTO, CAL.	8517	9 12	2 10 28.6			180 00	55 06		845003
10040	VILLA DOLORES, BN. ARG.	9011	9 12	7 43 44.41	23 00 54	-60 51				434023
10041	VILLA DOLORES, BN. ARG.	9011	9 12	7 44 33.02	23 35 00	-68 29				434023
10042	VILLA DOLORES, BN. ARG.	9011	9 12	7 45 36.75	1 12 00	-77 10				434023
10043	SHIRAZ, BN. IRAN	9008	9 12	16 56 18.45	20 18 48	55 50				434013
10044	SHIRAZ, BN. IRAN	9008	9 12	16 57 01.35	21 06 36	48 44				434013
10045	SHIRAZ, BN. IRAN	9008	9 12	16 57 41.12	21 40 24	41 21				434013

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10034	SAN FERNANDO'BN. SP.	9004	9 12	20 51 36.60	19 11 42	34 38				434013
10035	SAN FERNANDO'BN. SP.	9004	9 12	20 51 40.60	19 15 42	34 08				434013
10036	SAN FERNANDO'BN. SP.	9004	9 12	20 51 44.60	19 20 00	33 35				434013
10037	JUPITER'BN. FLA.	9010	9 13	0 45 30.60	22 45 30	70 30				434013
10038	JUPITER'BN. FLA.	9010	9 13	0 46 09.30	23 02 00	63 55				434013
10039	JUPITER'BN. FLA.	9010	9 13	0 47 24.02	23 21 30	51 21				434013
10028	OLIFANTSFNTN'BN.S.AF	9002	9 13	1 26 18.40	21 37 12	-72 35				434023
10029	OLIFANTSFNTN'BN.S.AF	9002	9 13	1 26 26.40	21 38 18	-73 32				434023
10030	OLIFANTSFNTN'BN.S.AF	9002	9 13	1 27 03.60	21 44 18	-78 45				434023
30106	SACRAMENTO. CAL.	8517	9 13	4 45 31.44			180 00	61 18		641304
10052	NAINI TAL'BN. INDIA	9006	9 13	14 33 26.56	21 14 00	59 08				434013
10053	NAINI TAL'BN. INDIA	9006	9 13	14 33 57.08	21 41 30	53 32				434013
10054	NAINI TAL'BN. INDIA	9006	9 13	14 34 09.11	21 50 12	51 18				434013
10055	SHIRAZ'BN. IRAN	9008	9 13	16 31 19.40	19 52 54	61 48				434013
10056	SHIRAZ'BN. IRAN	9008	9 13	16 32 31.35	21 16 12	50 01				434013
10057	SHIRAZ'BN. IRAN	9008	9 13	16 34 10.87	22 19 18	31 24				434013
10046	SAN FERNANDO'BN. SP.	9004	9 13	20 26 46.30	18 50 06	40 12				434013
10047	SAN FERNANDO'BN. SP.	9004	9 13	20 27 23.80	19 31 36	35 01				434013
10048	SAN FERNANDO'BN. SP.	9004	9 13	20 27 49.80	19 57 12	31 00				434013
10049	SAN FERNANDO'BN. SP.	9004	9 13	22 27 27.40	11 67 28	9 19				434013
10050	SAN FERNANDO'BN. SP.	9004	9 13	22 28 42.00	17 21 17	3 58				434013
10051	SAN FERNANDO'BN. SP.	9004	9 13	22 29 30.00	17 43 36	0 01				434013
10058	OLIFANTSFNTN'BN.S.AF	9002	9 14	1 03 49.10	5 40 00	-88 19				434023
10059	OLIFANTSFNTN'BN.S.AF	9002	9 14	1 05 00.70	8 56 48	-80 19				434023
10060	OLIFANTSFNTN'BN.S.AF	9002	9 14	3 09 09.54	16 21 00	-85 10				434023
10061	OLIFANTSFNTN'BN.S.AF	9002	9 14	3 10 12.68	12 35 00	-80 57				434023
30126	SACRAMENTO. CAL.	8517	9 14	4 20 36.44			180 00	67 14		641304
10068	MAUI'BN. HAWAII	9012	9 14	6 19 09.81	24 42 12	64 20				434013
10069	MAUI'BN. HAWAII	9012	9 14	6 20 16.06	23 10 05	53 02				434013
10070	MAUI'BN. HAWAII	9012	9 14	6 20 44.08	23 17 00	48 42				434013
10071	TOKYO'BN. JAPAN	9005	9 14	10 10 55.60	18 54 18	56 40				434013
10072	TOKYO'BN. JAPAN	9005	9 14	10 13 06.50	18 44 14	57 19				434013
10074	TOKYO'BN. JAPAN	9005	9 14	12 15 52.40	18 18 48	-1 25				434013
10065	NAINI TAL'BN. INDIA	9006	9 14	14 07 25.76	19 11 12	73 02				434013
10066	NAINI TAL'BN. INDIA	9006	9 14	14 10 30.59	22 11 18	41 52				434013
10067	NAINI TAL'BN. INDIA	9006	9 14	14 12 42.99	23 01 06	21 33				434013
10075	SHIRAZ'BN. IRAN	9008	9 14	16 05 29.84	19 37 06	60 52				434013
10076	SHIRAZ'BN. IRAN	9008	9 14	16 07 40.40	21 06 54	54 38				434013
10077	SHIRAZ'BN. IRAN	9008	9 14	16 09 42.69	22 16 44	53 38				434013
10080	SHIRAZ'BN. IRAN	9008	9 14	18 05 04.63	15 17 14	26 48				434013
10079	SHIRAZ'BN. IRAN	9008	9 14	18 07 47.12	15 25 44	26 34				434013
10064	SAN FERNANDO'BN. SP.	9004	9 14	20 01 14.70	18 51 00	43 17				434013
30107	N. CANTON, OHIO	8053	9 15	1 57 42	17 36	12 00				845043
30109	STATE COLLEGE, PA.	0060	9 15	2 00 14.11			211 04	40 30		845043
30108	STATE COLLEGE, PA.	0060	9 15	2 00 16.51			211 24	40 42		845043
10062	OLIFANTSFNTN'BN.S.AF	9002	9 15	2 41 01.80	20 13 00	-78 50				434023
10063	OLIFANTSFNTN'BN.S.AF	9002	9 15	2 44 57.30	13 46 00	-83 38				434023
30125	SACRAMENTO, CAL.	8517	9 15	3 55 41.7			180 00	73 10		641304
10100	TOKYO'BN. JAPAN	9005	9 15	9 46 36.10	18 34 12	57 50				434013
10101	TOKYO'BN. JAPAN	9005	9 15	9 47 50.00	20 07 14	47 06				434013
10102	TOKYO'BN. JAPAN	9005	9 15	11 50 41.20	17 46 14	4 51				434013
10109	TOKYO'BN. JAPAN	9005	9 15	11 52 48.80	19 02 42	-5 17				434013
10427	SHIRAZ'BN. IRAN	9008	9 15	15 42 47.6	20 57 34	59 15				434013
10428	SHIRAZ'BN. IRAN	9008	9 15	15 44 44.01	21 09 14	45 55				434013
10429	SHIRAZ'BN. IRAN	9008	9 15	15 44 48.79	22 02 36	40 52				434013
10498	SHIRAZ'BN. IRAN	9008	9 15	17 47 01.98	18 14 48	4 38				434013
10099	SHIRAZ'BN. IRAN	9008	9 15	17 47 13.53	18 32 18	2 14				434013
30110	WICHITA, KAN.	0028	9 16	1 31 08.1	18 41 18	45 21				845043
10083	JUPITER'BN. FLA.	9010	9 16	1 35 50.79	18 31 18	45 34				434013
10084	JUPITER'BN. FLA.	9010	9 16	1 39 11.09	21 22 12	12 04				434013
10081	OLIFANTSFNTN'BN.S.AF	9002	9 16	2 18 50.50	19 14 00	-82 14				434023
10082	OLIFANTSFNTN'BN.S.AF	9002	9 16	2 19 01.20	14 09 00	-84 21				434023
30126	SACRAMENTO, CAL.	8517	9 16	3 33 49.0			180 00	73 04		641304
10103	NAINI TAL'BN. INDIA	9006	9 16	15 12 40.38	17 29 14	15 34				434013
10104	NAINI TAL'BN. INDIA	9006	9 16	15 23 51.86	18 24 54	14 51				434013
10110	SHIRAZ'BN. IRAN	9008	9 16	17 22 50.72	18 34 00	4 54				434013
10111	SHIRAZ'BN. IRAN	9008	9 16	17 23 25.24	18 57 24	0 07				434013
10087	WOOMERA'BN. AUST.	9003	9 16	17 57 35.13	21 21 42	-64 37				434023
10088	WOOMERA'BN. AUST.	9003	9 16	17 59 02.17	21 45 30	-77 44				434023
10093	SAN FERNANDO'BN. SP.	9004	9 16	21 16 56.40	17 41 12	-0 17				434013
10094	SAN FERNANDO'BN. SP.	9004	9 16	21 18 04.40	18 23 12	-8 11				434013
30112	ROCHESTER, N.Y.	8564	9 17	1 10 04.0	17 56 33	0 33				845043
30113	ROCHESTER, N.Y.	8564	9 17	1 10 16.0	18 01 48	-0 31				845043
30114	ROCHESTER, N.Y.	8564	9 17	1 10 34.8	18 14 12	-1 50				845043
10085	OLIFANTSFNTN'BN.S.AF	9002	9 17	1 54 31.80	17 33 00	-84 06				434023
10086	OLIFANTSFNTN'BN.S.AF	9002	9 17	1 56 24.80	16 44 00	-78 16				434023
30127	SACRAMENTO, CAL.	8517	9 17	3 05 58.00			180 00	64 49		641304
10121	MAUI'BN. HAWAII	9012	9 17	7 08 52.89	18 03 42	35 05				434013
10122	MAUI'BN. HAWAII	9012	9 17	7 10 03.58	19 00 42	26 05				434013
10118	VILLA COLORES'BN.ARG	9011	9 17	7 46 04.33	21 13 18	-72 58				434023
10119	VILLA COLORES'BN.ARG	9011	9 17	7 52 38.23	9 35 36	-53 28				434023
10105	NAINI TAL'BN. INDIA	9006	9 17	14 58 45.71	17 54 36	24 18				434013
10106	NAINI TAL'BN. INDIA	9006	9 17	14 59 48.14	18 44 48	14 11				434013
10112	SHIRAZ'BN. IRAN	9008	9 17	16 58 20.28	18 32 48	7 42				434013
10113	SHIRAZ'BN. IRAN	9008	9 17	16 59 37.86	19 26 18	-3 40				434013
10089	WOOMERA'BN. AUST.	9003	9 17	17 36 21.95	7 33 30	-83 45				434023
10145	WOOMERA'BN. AUST.	9003	9 17	19 42 00.19	9 07 30	-79 52				434023
10095	SAN FERNANDO'BN. SP.	9004	9 17	20 52 50.80	17 47 42	-1 03				434013
30123	N. CANTON, OHIO	8565	9 18	0 44 46.5	17 41 48	14 22				845043

OBS NO	STATION	STA NO	DATE	TIME	R. A.	DECL.	AZIMUTH	ALTITUDE	RANGE	INDEX
10116	CURACAO BN, N.W.I.	9009	9 18	0 47 55.83	15 36 48	65 21				434013
10117	CURACAO BN, N.W.I.	9009	9 18	0 52 56.95	20 59 48	46 42				434013
10128	QUEBLA, MEX.	0900	9 18	2 50 18.2	20 17 12	29 27				845043
10120	VILLA COLORES BN, ARG.	9011	9 18	7 24 00.97	8 15 00	-83 12				434023
10107	NAINI TAL BN, INDIA	9006	9 18	14 35 29.52	18 55 48	15 40				434013
10108	NAINI TAL BN, INDIA	9006	9 18	14 37 08.35	20 06 12	- 0 10				434013
10114	SHIRAZ BN, IRAN	9008	9 18	16 31 07.06	16 24 06	29 54				434013
10115	SHIRAZ BN, IRAN	9008	9 18	16 35 47.86	19 53 18	- 6 50				434013
10092	WOOMERA BN, AUST.	9003	9 18	17 12 51.03	8 11 18	-73 58				434023
10090	WOOMERA BN, AUST.	9003	9 18	19 15 25.98	22 32 30	-83 31				434023
10091	WOOMERA BN, AUST.	9003	9 18	19 16 50.16	9 50 36	-50 27				434023
10096	SAN FERNANDO BN, SP.	9004	9 18	20 27 48.70	17 40 12	4 33				434013
10097	SAN FERNANDO BN, SP.	9004	9 18	20 28 32.90	17 48 36	- 0 24				434013
10113	CURACAO BN, N.W.I.	9009	9 19	0 28 09.78	21 00 12	50 51				434013
10124	CURACAO BN, N.W.I.	9009	9 19	0 49 31.59	21 52 00	36 35				434013
10129	FT. WORTH, TEX.	0139	9 19	2 43 03.8	18 12 48	5 03				845013
10143	MAUI BN, HAWAII	9012	9 19	6 20 30.05	18 44 30	36 48				434013
10144	MAUI BN, HAWAII	9012	9 19	6 22 17.42	20 14 30	22 16				434013
10139	VILLA COLORES BN, ARG.	9011	9 19	6 57 38.55	21 46 06	-81 40				434023
10140	VILLA COLORES BN, ARG.	9011	9 19	6 59 31.05	8 03 36	-81 00				434023
10141	VILLA COLORES BN, ARG.	9011	9 19	7 00 32.81	22 14 18	-64 09				434023
10142	VILLA COLORES BN, ARG.	9011	9 19	7 08 42.77	9 40 00	-43 56				434023
10146	TOYOTA BN, JAPAN	9005	9 19	10 12 26.40	16 09 06	16 56				434013
10138	HIGASHI MATSUYAMA, JAP.	0210	9 19	10 13 18.6	17 56 30	9 14				845002
10137	MITAKA, JAPAN	0219	9 19	10 13 38.2			116 06	57 00		845003
10147	TOYOTA BN, JAPAN	9005	9 19	10 13 45.30	16 06 06	7 06				434013
10135	NAINI TAL BN, INDIA	9006	9 19	14 16 04.19	18 10 00	17 59				434013
10136	NAINI TAL BN, INDIA	9006	9 19	14 18 50.98	18 15 30	19 40				434013
10148	SHIRAZ BN, IRAN	9008	9 19	16 39 06.63	18 12 18	16 04				434013
10149	SHIRAZ BN, IRAN	9008	9 19	16 39 51.63	18 01 48	7 58				434013
10119	WOOMERA BN, AUST.	9003	9 19	16 46 52.44	8 10 00	-83 14				434023
10130	WOOMERA BN, AUST.	9003	9 19	16 49 30.28	8 10 30	-83 53				434023
10131	WOOMERA BN, AUST.	9003	9 19	16 56 16.16	8 55 30	-82 40				434023
10132	WOOMERA BN, AUST.	9003	9 19	16 56 31.16	9 04 00	-80 18				434023
10133	SAN FERNANDO BN, SP.	9004	9 19	20 23 18.10	17 14 42	5 02				434013
10134	SAN FERNANDO BN, SP.	9004	9 19	20 24 44.10	16 10 36	- 3 13				434013
10137	CURACAO BN, N.W.I.	9009	9 20	0 24 46.86	21 24 24	67 08				434013
10138	CURACAO BN, N.W.I.	9009	9 20	0 24 50.39	21 34 00	39 09				434013
10125	OLIFANTSPONT BN, S. AF.	9001	9 20	0 39 57.80	19 17 36	-76 03				434023
10126	OLIFANTSPONT BN, S. AF.	9001	9 20	0 40 00.60	11 02 30	-81 10				434023
10127	OLIFANTSPONT BN, S. AF.	9002	9 20	0 40 59.10	21 05 00	-82 46				434023
10128	OLIFANTSPONT BN, S. AF.	9002	9 20	0 51 14.80	10 10 00	-50 04				434023
10140	VILLA COLORES BN, ARG.	9011	9 20	6 53 46.24	21 35 00	-87 17				434023
10141	VILLA COLORES BN, ARG.	9011	9 20	6 57 41.32	8 35 48	-58 26				434023
10139	VILLA COLORES BN, ARG.	9011	9 20	6 58 15.97	11 01 30	-60 16				434023
10152	VILLA COLORES BN, ARG.	9011	9 20	7 04 10.60	9 11 00	- 6 44				434013
10155	NAINI TAL BN, INDIA	9006	9 20	13 44 42.2	17 17 00	37 50				434013
10156	NAINI TAL BN, INDIA	9006	9 20	13 46 35.46	17 11 24	10 23				434013
10157	SHIRAZ BN, IRAN	9008	9 20	16 44 32.81	16 19 24	10 28				434013
10158	SHIRAZ BN, IRAN	9008	9 20	16 47 32.86	16 10 42	9 38				434013
10159	NAINI TAL BN, INDIA	9006	9 20	16 47 35.77	16 17 48	- 1 01				434013
10158	NAINI TAL BN, INDIA	9006	9 20	16 50 56.10	17 00 12	-13 37				434013
10154	SAN FERNANDO BN, SP.	9004	9 20	20 23 16.40	17 16 34	5 05				434013
10154	CURACAO BN, N.W.I.	9009	9 20	20 24 44.10	16 10 36	- 3 13				434013
10159	JUPITER BN, FLA.	9011	9 21	1 38 15.74	17 49 13	- 4 10				434013
10166	CURACAO BN, N.W.I.	9009	9 21	1 41 41.23	17 16 06	1 21				434013
10130	SAN JOSE, CAL.	8073	9 21	2 45 28.4			180	19 17 48		845004
10148	VILLA COLORES BN, ARG.	9011	9 21	6 51 22.27	21 35 00	-79 11				434023
10159	VILLA COLORES BN, ARG.	9011	9 21	6 57 31.81	8 59 14	-19 51				434023
10170	SHIRAZ BN, IRAN	9008	9 21	16 49 44.16	16 01 14	16 58				434013
10161	NAINI TAL BN, INDIA	9006	9 21	16 58 15.63	17 11 42	-15 29				434013
10160	WOOMERA BN, AUST.	9003	9 21	16 59 12.27	8 48 00	-84 39				434023
10167	CURACAO BN, N.W.I.	9009	9 22	1 10 16.26	16 35 48	-13 51				434013
10132	CHINA LAKE, CAL.	8098	9 22	1 06 27.5			124 37 48	41 03 00		845003
10131	SAN JOSE, CAL.	8073	9 22	2 45 19.8			179 46 11	19 04 11		845004
10177	TOYOTA BN, JAPAN	9005	9 22	11 03 41.50	16 19 24	-17 51				434013
10173	NAINI TAL BN, INDIA	9006	9 22	14 59 21.24	16 17 11	- 5 40				434013
10171	WOOMERA BN, AUST.	9003	9 22	17 37 32.05	8 55 00	-87 41				434023
10172	WOOMERA BN, AUST.	9003	9 22	19 44 51.01	7 16 24	-60 27				434023
10174	CURACAO BN, N.W.I.	9009	9 23	0 25 51.34	16 36 48	-14 01				434013
10182	MAUI BN, HAWAII	9012	9 23	6 47 26.26	17 42 11	-15 17				434013
10178	NAINI TAL BN, INDIA	9006	9 23	14 36 00.64	16 47 36	-11 36				434013
10184	CURACAO BN, N.W.I.	9009	9 24	0 30 52.38	16 45 48	- 6 35				434013
10185	AREQUIPA BN, PERU	9007	9 24	0 30 27.65	17 41 36	37 08				434013
10183	MAUI BN, HAWAII	9012	9 24	6 47 48.73	17 11 42	-12 48				434013
10139	NAINI TAL BN, INDIA	9006	9 24	14 11 15.25	16 12 54	- 3 46				434013
10181	AREQUIPA BN, PERU	9007	9 25	0 31 30.69	17 06 06	31 31				434013
10185	MAUI BN, HAWAII	9012	9 25	5 58 15.44	17 06 11	-40 10				434013
10175	WOOMERA BN, AUST.	9003	9 25	16 23 22.33	8 48 00	-87 40				434023
10186	OLIFANTSPONT BN, S. AF.	9001	9 25	17 56 35.70	22 25 25	- 4 47				434013
10176	SAN FERNANDO BN, SP.	9004	9 25	19 49 01.60	16 43 18	- 4 11				434013
10184	CURACAO BN, N.W.I.	9009	9 25	1 01 38.92	16 44 36	- 1 34				434013
10183	AREQUIPA BN, PERU	9007	9 25	1 01 47.16	16 06 10	16 39				434013
10187	OLIFANTSPONT BN, S. AF.	9001	9 26	0 39 21.40	9 36 00	-76 46				434023
10188	OLIFANTSPONT BN, S. AF.	9002	9 26	0 39 22.20	7 06 11	-66 46				434023
10195	SHIRAZ BN, IRAN	9008	9 26	16 10 56.41	16 17 00	- 9 25				434013
10190	WOOMERA BN, AUST.	9003	9 26	16 00 34.59	7 47 36	-75 38				434023

OBS NO	STATION	STA NO	DATE	TIME	H. A.	DECL.	AZIMUTH	ALTITUDE	RANGE	INCL.
10189	OLIFANTSFTN*BN*S.AF	9002	9 26	17 34 34.30	24 42 54	16 26				434013
10191	WOOMERA*BN, AUSTR.	9003	9 26	18 05 32.25	7 02 48	-69 11				434023
10192	SAN FERNANDO*BN, SP.	9004	9 26	19 14 43.00	15 36 42	-9 00				434013
10200	CURACAO*BN, N.W.I.	9009	9 26	23 17 09.08	16 37 00	5 43				434013
10197	VILLA DOLORES*BN, ARG	9011	9 27	5 47 20.21	7 34 00	-77 22				434023
10198	VILLA DOLORES*BN, ARG	9011	9 27	7 47 46.14	21 57 48	-60 15				434023
10199	VILLA DOLORES*BN, ARG	9011	9 27	7 53 04.57	6 14 18	-62 29				434023
10201	WOOMERA*BN, AUSTR.	9003	9 27	11 16 37.82	20 51 24	-16 16				434013
10202	WOOMERA*BN, AUSTR.	9003	9 27	17 40 44.34	6 56 12	-70 34				434023
10203	VILLA DOLORES*BN, ARG	9011	9 28	1 05 55.81	23 13 36	8 36				434023
10204	VILLA DOLORES*BN, ARG	9011	9 28	5 22 48.95	7 28 24	-75 37				434023
10205	VILLA DOLORES*BN, ARG	9011	9 28	7 23 10.30	21 29 54	-61 36				434023
10206	VILLA DOLORES*BN, ARG	9011	9 28	7 34 15.20	6 12 42	-15 35				434013
10208	WOOMERA*BN, AUSTR.	9003	9 28	17 15 48.02	6 48 48	-73 17				434023
10207	WOOMERA*BN, AUSTR.	9003	9 28	19 21 51.38	5 02 36	-33 26				434023
10215	VILLA DOLORES*BN, ARG	9011	9 29	6 59 47.77	21 58 00	-70 46				434023
10216	VILLA DOLORES*BN, ARG	9011	9 29	7 05 32.17	7 09 42	-47 50				434023
10212	WOOMERA*BN, AUSTR.	9003	9 29	10 36 08.71	22 16 42	1 52				434023
10210	WOOMERA*BN, AUSTR.	9003	9 29	16 50 58.16	6 43 18	-74 44				434023
10211	WOOMERA*BN, AUSTR.	9003	9 29	18 57 09.06	4 59 24	-37 17				434023
10239	CURACAO*BN, N.W.I.	9009	9 30	0 07 57.13	16 22 06	-31 56				434023
10217	AREQUIPA*BN, PERU	9007	9 30	0 12 58.28	19 09 24	1 18				434013
10219	VILLA DOLORES*BN, ARG	9011	9 30	0 20 58.87	22 55 06	-16 10				434023
10209	OLIFANTSFTN*BN*S.AF	9002	9 30	0 46 41.30	7 25 36	-56 00				434023
10278	VILLA DOLORES*BN, ARG	9011	9 30	6 40 44.76	7 02 00	-49 55				434023
10221	VILLA DOLORES*BN, ARG	9011	9 30	8 44 31.93	4 22 24	-21 10				434013
10224	WOOMERA*BN, AUSTR.	9003	9 30	10 07 28.77	22 05 36	2 05				434023
10225	WOOMERA*BN, AUSTR.	9003	9 30	12 12 10.17	10 40 22	-72 12				434023
10226	WOOMERA*BN, AUSTR.	9003	9 30	16 26 04.25	6 36 00	-70 51				434023
30145	ADELALUE, AUSTR.	0606	9 30	18 32 04.22			24 47	62.00		043003
30144	ADELALUE, AUSTR.	0606	9 30	18 32 05.17			32 00	64.00		043003
10227	WOOMERA*BN, AUSTR.	9003	9 30	18 32 25.00	4 55 24	-74 11				434023
30146	WOOMERA, AUSTR.	0603	9 30	18 33 31.87			43 40	71.12		043003
10222	OLIFANTSFTN*BN*S.AF	9002	9 30	20 25 16.85	17 18 14	-76 24				434023
10231	CURACAO*BN, N.W.I.	9009	9 30	23 42 25.27	16 55 18	-23 57				434023
10233	VILLA DOLORES*BN, ARG	9011	9 30	23 55 12.54	11 57 17	-6 07				434013
10223	OLIFANTSFTN*BN*S.AF	9002	10 01	0 21 56.80	7 14 32	-58 54				434013
10279	VILLA DOLORES*BN, ARG	9011	10 01	1 59 25.10	19 35 12	-15 38				434023
10234	VILLA DOLORES*BN, ARG	9011	10 01	6 13 13.06	4 54 16	-76 53				434023
10240	OLIFANTSFTN*BN*S.AF	9002	10 01	19 41 20.70	18 06 00	-62 31				434023
10232	CURACAO*BN, N.W.I.	9009	10 01	23 18 43.55	16 06 00	-14 05				434023
10236	VILLA DOLORES*BN, ARG	9011	10 02	1 32 07.84	16 14 48	-16 18				434023
10237	VILLA DOLORES*BN, ARG	9011	10 02	1 39 09.20	4 41 12	-65 14				434023
10245	OLIFANTSFTN*BN*S.AF	9002	10 02	2 03 06.80	4 49 08	-74 35				434023
10229	WOOMERA*BN, AUSTR.	9003	10 02	15 38 16.56	6 52 14	-62 34				434023
10246	OLIFANTSFTN*BN*S.AF	9002	10 02	17 10 49.10	10 19 42	-8 47				434013
10230	WOOMERA*BN, AUSTR.	9003	10 02	17 42 54.25	4 52 24	-47 47				434023
10247	OLIFANTSFTN*BN*S.AF	9002	10 02	19 16 42.30	17 57 34	-62 02				434023
10240	VILLA DOLORES*BN, ARG	9011	10 03	1 10 14.81	19 41 42	-51 34				434023
10248	OLIFANTSFTN*BN*S.AF	9002	10 03	1 37 57.70	4 15 16	-42 38				434023
10241	VILLA DOLORES*BN, ARG	9011	10 03	3 24 16.50	17 52 32	-59 07				434023
10242	VILLA DOLORES*BN, ARG	9011	10 03	7 29 07.93	1 55 00	-43 15				434023
10235	WOOMERA*BN, AUSTR.	9003	10 03	10 58 01.00	10 19 30	-74 31				434023
10249	OLIFANTSFTN*BN*S.AF	9002	10 03	18 51 06.76	17 43 30	-70 14				434023
50018	LAREO*TRADAF, ICA.	4012	10 03	22 29 08.65			27 54	70.42	1040	043007
10250	OLIFANTSFTN*BN*S.AF	9002	10 04	1 13 09.56	4 10 48	-47 15				434023
10253	VILLA DOLORES*BN, ARG	9011	10 04	7 06 02.99	4 10 42	-74 10				434023
10256	MAUI*BN, HAWAII	9012	10 04	15 17 43.79	6 45 00	-60 47				434013
10251	WOOMERA*BN, AUSTR.	9003	10 04	16 53 25.56	4 40 06	-54 15				434023
10252	WOOMERA*BN, AUSTR.	9003	10 04	18 58 37.74	3 05 48	1 46				434013
10255	OLIFANTSFTN*BN*S.AF	9002	10 06	0 24 07.80	4 36 36	-50 19				434023
10258	CURACAO*BN, N.W.I.	9009	10 06	6 31 24.86	6 51 12	-27 34				434023
10256	WOOMERA*BN, AUSTR.	9003	10 06	11 52 42.92	3 29 00	-76 24				434023
10257	WOOMERA*BN, AUSTR.	9003	10 06	18 09 01.38	4 11 12	-6 43				434023
10259	WOOMERA*BN, AUSTR.	9003	10 07	13 32 07.27	6 53 00	-85 13				434023
10260	WOOMERA*BN, AUSTR.	9003	10 07	17 45 58.49	3 15 00	2 28				434013
10261	NATNI TAL*BN, INDIA	9006	10 08	23 37 37.08	6 31 42	3 07				434013
10265	VILLA DOLORES*BN, ARG	9011	10 09	0 48 42.28	18 33 00	-86 37				434023
10263	AREQUIPA*BN, PERU	9007	10 09	9 12 36.26	4 55 16	12 23				434013
10272	VILLA DOLORES*BN, ARG	9011	10 10	0 17 59.51	19 58 30	-25 31				434023
10273	VILLA DOLORES*BN, ARG	9011	10 10	0 26 21.77	2 52 00	-74 30				434023
10268	SHIRAZ*BN, IRAN	9008	10 10	1 10 39.84	7 43 06	-2 31				434013
10274	VILLA DOLORES*BN, ARG	9011	10 10	2 28 10.92	16 56 30	-75 06				434023
10275	VILLA DOLORES*BN, ARG	9011	10 10	2 32 24.59	5 15 00	-66 45				434023
10271	SAN FERNANDO*BN, SP.	9004	10 10	5 08 26.10	6 13 42	-6 10				434013
10267	AREQUIPA*BN, PERU	9007	10 10	8 49 25.97	2 19 18	20 58				434013
10269	CURACAO*BN, N.W.I.	9009	10 10	8 57 33.62	3 34 54	9 50				434013
10270	JUPITER*BN, FLA.	9010	10 10	8 58 59.75	7 51 18	-17 14				434013
30147	PUEBLA, MEX.	0906	10 10	10 56 05.00	5 53 36	-8 14				043003
10266	ORGAN PASS*BN, N.M.	9001	10 10	10 59 08.80	6 04 48	-14 48				434013
10276	MAUI*BN, HAWAII	9012	10 10	14 54 41.89	6 55 48	9 42				434013
10281	SHIRAZ*BN, IRAN	9008	10 11	0 45 40.81	7 30 24	-7 37				434013

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10277	SAN FERNANDO'BN, SP.	9004	10 11	4 44 13.20	8 15 30	- 5 44				434013
10279	WOOMERA'BN, AUSTR.	9003	10 11	11 52 39.68	14 22 00	-87 00				434023
10278	WOOMERA'BN, AUSTR.	9003	10 11	13 56 57.53	19 21 30	-78 36				434023
10313	SHIRAZ'BN, IRAN	9008	10 12	0 21 19.72	7 31 18	- 7 59				434013
10280	SAN FERNANDO'BN, SP.	9004	10 12	4 19 22.10	7 58 12	- 8 49				434013
10286	JUPITER'BN, FLA.	9010	10 12	8 10 01.98	7 37 42	-18 15				434013
10287	JUPITER'BN, FLA.	9010	10 12	10 13 42.39	5 54 12	19 38				434013
10283	WOOMERA'BN, AUSTR.	9003	10 12	11 27 25.93	15 25 00	-82 26				434023
10282	WOOMERA'BN, AUSTR.	9003	10 12	13 33 48.88	2 04 48	-83 08				434023
10284	NAINI TAL'BN, INDIA	9006	10 12	21 56 56.27	6 56 42	-19 19				434013
10288	SHIRAZ'BN, IRAN	9008	10 12	23 56 49.03	7 26 18	- 9 14				434013
10291	VILLA DOLORES'BN, ARG	9011	10 13	1 14 39.60	15 54 00	-79 47				434023
10292	VILLA DOLORES'BN, ARG	9011	10 13	1 19 04.96	4 36 00	-61 06				434023
10290	SAN FERNANDO'BN, SP.	9004	10 13	3 55 27.30	8 05 30	- 6 40				434013
10294	JUPITER'BN, FLA.	9010	10 13	9 49 22.19	6 06 48	18 46				434013
10293	WOOMERA'BN, AUSTR.	9003	10 13	13 09 17.53	2 53 00	-82 28				434023
10295	MAUI'BN, HAWAII	9012	10 13	13 40 42.57	6 45 24	- 1 42				434013
10295	OLIFANTSFNTN'BN, S.AF	9002	10 13	18 58 15.80	9 20 00	-83 20				434023
10307	TOKYO'BN, JAPAN	9005	10 13	19 43 10.40	6 49 36	21 25				434013
30164	MITAKA, JAPAN	0229	10 13	19 43 27.7			142 54	75 18		845302
10319	VILLA DOLORES'BN, ARG	9011	10 14	0 50 53.65	14 12 00	-88 08				434023
10719	SHIRAZ'BN, IRAN	9008	10 14	1 37 01.11	6 03 06	42 55				434013
10320	VILLA DOLORES'BN, ARG	9011	10 14	2 55 57.97	22 17 00	-80 15				434023
10331	SAN FERNANDO'BN, SP.	9004	10 14	5 34 52.70	7 49 12	32 39				434013
10299	WOOMERA'BN, AUSTR.	9003	10 14	10 37 57.22	15 16 00	-81 27				434023
10300	WOOMERA'BN, AUSTR.	9003	10 14	12 45 14.25	3 51 48	-77 04				434023
10327	MAUI'BN, HAWAII	9012	10 14	13 16 20.59	6 48 30	- 2 35				434013
10328	MAUI'BN, HAWAII	9012	10 14	15 20 35.42	3 46 42	-48 04				434013
10296	OLIFANTSFNTN'BN, S.AF	9002	10 14	18 33 38.10	8 43 00	-82 48				434023
10309	NAINI TAL'BN, INDIA	9006	10 14	21 10 13.65	7 39 18	- 7 50				434013
10310	NAINI TAL'BN, INDIA	9006	10 14	23 16 24.45	6 57 00	49 23				434013
10321	VILLA DOLORES'BN, ARG	9011	10 15	0 23 46.26	15 25 36	-66 16				434023
10647	VILLA DOLORES'BN, ARG	9011	10 15	0 29 32.01	4 03 48	-62 48				434023
10303	SAN FERNANDO'BN, SP.	9004	10 15	5 09 54.00	7 05 30	26 50				434013
10315	CURACAO'BN, N.W.I.	9009	10 15	6 59 30.75	2 43 48	46 15				434013
30148	PALM BEACH, FLA.	0016	10 15	9 00 05			136	71 00		045303
10316	JUPITER'BN, FLA.	9010	10 15	9 02 07.20	7 29 42	26 45				434013
10301	WOOMERA'BN, AUSTR.	9003	10 15	10 13 10.28	15 12 00	-80 32				434023
10302	WOOMERA'BN, AUSTR.	9003	10 15	12 20 23.58	3 48 36	-78 52				434023
10329	MAUI'BN, HAWAII	9012	10 15	12 54 15.03	7 50 12	11 46				434013
10297	OLIFANTSFNTN'BN, S.AF	9002	10 15	18 08 56.20	6 42 00	-82 57				434023
30165	MITAKA, JAPAN	0229	10 15	18 54 00.1			140 46	65 40		845302
10308	TOKYO'BN, JAPAN	9005	10 15	18 54 12.00	6 52 18	16 55				434013
10298	OLIFANTSFNTN'BN, S.AF	9002	10 15	20 14 20.20	3 33 00	-86 34				434023
10311	NAINI TAL'BN, INDIA	9006	10 15	22 48 53.80	6 07 36	29 28				434013
10323	VILLA DOLORES'BN, ARG	9011	10 15	23 59 54.00	15 11 24	-65 37				434023
10314	SHIRAZ'BN, IRAN	9008	10 16	0 47 11.42	5 38 06	31 27				434013
10325	VILLA DOLORES'BN, ARG	9011	10 16	2 04 17.45	17 11 06	-67 40				434023
10326	VILLA DOLORES'BN, ARG	9011	10 16	2 09 21.84	3 37 06	-62 00				434023
10304	SAN FERNANDO'BN, SP.	9004	10 16	2 41 32.70	7 26 42	-11 23				434013
10305	SAN FERNANDO'BN, SP.	9004	10 16	4 45 13.30	6 56 24	23 05				434013
10317	JUPITER'BN, FLA.	9010	10 16	8 35 39.01	6 09 18	9 06				434013
10330	MAUI'BN, HAWAII	9012	10 16	14 30 15.54	3 20 24	34 17				434013
10338	OLIFANTSFNTN'BN, S.AF	9002	10 16	17 43 29.54	10 55 00	-82 31				434023
10339	OLIFANTSFNTN'BN, S.AF	9002	10 16	19 50 59.79	4 31 00	-74 19				434023
10334	VILLA DOLORES'BN, ARG	9011	10 16	23 38 21.34	3 24 00	-77 48				434023
10335	VILLA DOLORES'BN, ARG	9011	10 16	23 41 20.20	3 37 12	-48 22				434023
10332	SHIRAZ'BN, IRAN	9008	10 17	0 22 32.34	5 36 42	27 36				434013
10336	VILLA DOLORES'BN, ARG	9011	10 17	1 41 46.55	10 22 00	-84 21				434023
10337	VILLA DOLORES'BN, ARG	9011	10 17	1 45 37.15	3 48 00	-53 32				434023
10306	SAN FERNANDO'BN, SP.	9004	10 17	4 21 03.90	7 12 06	22 51				434013
10333	JUPITER'BN, FLA.	9010	10 17	8 11 56.39	6 39 48	12 44				434013
10346	JUPITER'BN, FLA.	9010	10 17	10 15 10.19	3 13 00	49 02				434013
10342	WOOMERA'BN, AUSTR.	9003	10 17	11 30 44.22	3 50 00	-81 38				434023
10340	OLIFANTSFNTN'BN, S.AF	9002	10 17	17 18 11.80	12 45 46	-79 24				434023
10341	OLIFANTSFNTN'BN, S.AF	9002	10 17	19 25 56.00	4 37 36	-78 09				434023
10343	NAINI TAL'BN, INDIA	9006	10 17	21 54 06.56	5 41 06	17 28				434013
10355	SHIRAZ'BN, IRAN	9008	10 17	23 57 49.65	5 32 30	73 18				434013
10345	ORGAN PASS'BN, N.W.	9001	10 18	9 46 55.10	6 40 30	5 56				434013
30150	CINCINNATI, OHIO	8555	10 18	9 52 30.42	6 30 06	27 30				845303
30151	N. CANTON, OHIO	8559	10 18	9 54 31.7	7 36 40	34 25				845303
30152	SACRAMENTO, CAL.	8517	10 18	11 47 04.7			180 00	56 17		641304
10346	WOOMERA'BN, AUSTR.	9003	10 18	13 10 32.27	22 49 24	-67 33				434023
10348	TOKYO'BN, JAPAN	9005	10 18	17 39 33.20	6 02 30	2 29				434013
30189	MITAKA, JAPAN	0229	10 18	17 40 01.0			147 18	52 24		845303
10352	OLIFANTSFNTN'BN, S.AF	9002	10 18	19 02 05.36	4 03 06	-70 56				434023
10349	TOKYO'BN, JAPAN	9005	10 18	19 44 07.20	4 27 44	48 34				434013
30188	MITAKA, JAPAN	0229	10 18	19 45 06.45			345 06	64 12		045303
10350	NAINI TAL'BN, INDIA	9006	10 18	21 37 58.96	8 11 36	34 46				434013
10359	SHIRAZ'BN, IRAN	9008	10 18	23 33 50.35	5 59 54	24 45				434013
10351	NAINI TAL'BN, INDIA	9006	10 18	23 39 07.62	6 04 48	26 01				434013
10354	SHIRAZ'BN, IRAN	9008	10 19	1 38 45.73	3 23 00	68 13				434013
10347	SAN FERNANDO'BN, SP.	9004	10 19	3 30 43.00	6 08 36	9 09				434013
10353	WOOMERA'BN, AUSTR.	9003	10 19	10 41 24.03	3 47 12	-80 34				434023
30154	SACRAMENTO, CAL.	8517	10 19	11 22 01.0			180 00	50 47		641304
10356	WOOMERA'BN, AUSTR.	9003	10 19	12 47 15.16	1 05 18	-61 43				434023
10358	MAUI'BN, HAWAII	9012	10 19	15 25 49.31	0 56 00	84 29				434013

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10364	SHIRAZ'BN, IRAN	9008	10 19	23 10 48.77	7 08 54	31 10				434013
10357	NAINI TAL'BN, INDIA	9006	10 19	23 14 51.62	3 17 18	59 12				434013
10365	SHIRAZ'BN, IRAN	9008	10 20	1 13 17.88	2 56 54	58 05				434013
30155	FT. WORTH, TEX.	0139	10 20	11 03 01.2	3 18 00	50 24				845013
10360	ORGAN PASS'BN, N.M.	9001	10 20	11 03 10.70	6 24 24	59 53				434013
30156	DENVER, COLO.	8562	10 20	11 03 17.5			149 34	65 45 00		845303
10361	WOOMERA'BN, AUSTR.	9003	10 20	12 23 08.64	1 42 36	-58 17				434023
30157	WOOMERA, AUSTR.	0603	10 20	12 23 29.8			141 42	54 00		845304
10362	TOKYO'BN, JAPAN	9005	10 20	18 54 22.20	4 06 42	40 40				434013
10363	NAINI TAL'BN, INDIA	9006	10 20	22 52 52.92	7 39 00	75 42				434013
10368	SHIRAZ'BN, IRAN	9008	10 21	0 48 48.86	3 02 30	59 11				434013
10366	JUPITER'BN, FLA.	9010	10 21	8 38 11.96	4 41 18	58 09				434013
10367	ORGAN PASS'BN, N.M.	9001	10 21	10 36 48.10	4 24 42	44 25				434013
30158	DENVER, COLO.	8562	10 21	10 38 45.0			148 48	81 42		845303
10369	WOOMERA'BN, AUSTR.	9003	10 21	11 57 30.33	0 38 24	-69 11				434023
30159	ADELAIDE, AUSTR.	0600	10 21	11 50 36.8			132	66 45		845303
30167	WOOMERA, AUSTR.	0603	10 21	11 58 55.0			140 00	50 30		845302
30160	SACRAMENTO, CAL.	8517	10 21	12 40 17.1			0 00	69 30		845304
30159	DENVER, COLO.	8562	10 21	12 44 13.5			350 42	58 18		845303
30190	MITAKA, JAPAN	0129	10 21	18 30 44.5			330 48	74 48		845303
10375	TOKYO'BN, JAPAN	9005	10 21	18 31 31.90	5 43 06	53 43				434013
10376	NAINI TAL'BN, INDIA	9006	10 21	22 26 03.56	3 46 54	61 53				434013
10379	SHIRAZ'BN, IRAN	9008	10 22	0 24 21.91	3 43 30	60 11				434013
10372	ORGAN PASS'BN, N.M.	9001	10 22	10 13 08.10	5 24 30	49 27				434013
30161	DENVER, COLO.	8562	10 22	10 14 01.8			147 36	77 18		845303
30162	FT. WORTH, TEX.	0139	10 22	10 15 53.2	3 42 30	65 34				434013
30168	WOOMERA, AUSTR.	0603	10 22	11 33 27.6			155 00	46 00		845302
10370	WOOMERA'BN, AUSTR.	9003	10 22	11 33 28.18	1 17 42	-65 42				434023
30163	SACRAMENTO, CAL.	8517	10 22	12 15 27.8			0 00	72 31		845304
10373	ORGAN PASS'BN, N.M.	9001	10 22	12 18 10.50	1 53 54	74 55				434013
10377	NAINI TAL'BN, INDIA	9006	10 22	22 02 31.92	3 48 54	68 06				434013
10380	SHIRAZ'BN, IRAN	9008	10 22	23 59 42.19	3 16 24	59 13				434013
50020	BRATISLAVA, CZECH.	5702	10 23	4 04 57.5	7 17 30	40 00				845404
50021	BRATISLAVA, CZECH.	5702	10 23	4 06 50.7	7 17 30	36 54				845404
10381	JUPITER'BN, FLA.	9010	10 23	9 54 33.47	4 22 30	80 54				434013
10371	WOOMERA'BN, AUSTR.	9003	10 23	11 09 01.31	1 39 36	-63 32				434023
30169	WOOMERA, AUSTR.	0603	10 23	11 09 15.1			147 06	45 00		845302
10374	ORGAN PASS'BN, N.M.	9001	10 23	11 33 17.74	3 01 00	75 38				434013
30166	DENVER, COLO.	8562	10 23	11 35 37.5			0 00	61 45 30		845303
10363	SHIRAZ'BN, IRAN	9008	10 23	23 36 17.76	3 46 36	69 12				434013
30186	JUPITER'BN, FLA.	9010	10 24	9 28 05.79	1 48 00	63 28				434013
30170	CINCINNATI, OHIO	8555	10 24	9 29 05.7	3 10 00	55 27				845003
10382	WOOMERA'BN, AUSTR.	9003	10 24	10 44 00.1	1 50 12	-54 12				434023
30180	CHINA LAKE, CAL.	8098	10 24	11 26 02.5			336 11 44	62 45 11		845303
10385	WOOMERA'BN, AUSTR.	9003	10 24	11 48 03.70	22 11 48	-29 48				434023
10386	NAINI TAL'BN, INDIA	9006	10 24	23 18 06.92	3 47 00	87 10				434013
10389	VILLA COLORES'BN, ARG.	9011	10 25	0 17 51.73	17 35 34	-68 38				434023
10390	VILLA COLORES'BN, ARG.	9011	10 25	0 35 32.85	1 43 41	-43 31				434013
10391	VILLA COLORES'BN, ARG.	9011	10 25	1 35 46.08	18 59 18	-30 36				434013
10388	JUPITER'BN, FLA.	9010	10 25	9 43 33.30	1 07 48	67 31				434013
10392	WOOMERA'BN, AUSTR.	9003	10 25	10 19 16.1	1 11 48	-69 24				434023
10387	ORGAN PASS'BN, N.M.	9001	10 25	12 03 34.70	2 57 00	64 34				434013
30172	MILWAUKEE, WISC.	3074	10 25	11 10 03.6	7 57	62 15				845044
10393	WOOMERA'BN, AUSTR.	9003	10 25	12 24 44.95	23 14 42	-23 37				434023
10395	WOOMERA'BN, AUSTR.	9003	10 26	9 54 51.42	1 32 00	-67 24				434023
10394	ORGAN PASS'BN, N.M.	9001	10 26	10 39 15.10	1 41 48	71 19				434013
30173	DENVER, COLO.	8562	10 26	10 40 52.6			0 00	67 12		845303
10396	WOOMERA'BN, AUSTR.	9003	10 26	11 59 52.78	22 59 34	-29 48				434023
30174	WOOMERA, AUSTR.	0603	10 26	12 00 08.0			331 36	65 48		845302
10407	OLIFANTSFNT'BN, S.AF	9002	10 26	17 48 38.00	1 03 48	-74 38				434023
10397	NAINI TAL'BN, INDIA	9006	10 26	22 48 06.97	1 43 36	76 49				434013
10400	ORGAN PASS'BN, N.M.	9001	10 27	10 15 17.79	4 36 00	77 43				434013
10399	JUPITER'BN, FLA.	9010	10 27	10 21 43.29	4 34 00	53 10				434013
10403	WOOMERA'BN, AUSTR.	9003	10 27	11 35 12.35	22 59 36	-34 08				434023
30181	SACRAMENTO, CAL.	8517	10 27	12 17 27.1			0 00	54 31		845304
10401	ORGAN PASS'BN, N.M.	9001	10 27	12 20 07.11	1 58 00	80 15				434013
10406	OLIFANTSFNT'BN, S.AF	9002	10 27	17 24 35.08	1 46 00	-72 59				434023
10402	NAINI TAL'BN, INDIA	9006	10 27	22 34 01.97	1 36 12	80 43				434013
10404	AREQUIPA'BN, PERU	9007	10 28	1 24 14.14	1 40 00	-50 52				434023
30185	ADELAIDE, AUSTR.	0600	10 28	11 10 18.8			323 30	77 00		845303
10411	WOOMERA'BN, AUSTR.	9003	10 28	11 10 37.49	21 54 06	-45 57				434023
30175	CHINA LAKE, CAL.	8588	10 28	11 53 12.8			332 17 24	44 46 46		845303
10410	WOOMERA'BN, AUSTR.	9003	10 28	13 12 34.27	20 41 06	-0 56				434013
10408	OLIFANTSFNT'BN, S.AF	9002	10 28	19 06 55.70	23 34 18	-15 37				434023
10417	SHIRAZ'BN, IRAN	9008	10 28	23 42 27.11	12 16 24	63 49				434013
10413	NAINI TAL'BN, INDIA	9006	10 28	23 45 36.84	15 49 00	88 10				434013
10416	VILLA COLORES'BN, ARG.	9011	10 29	0 58 15.93	22 31 48	-17 52				434013
10412	SAN FERNANDO'BN, SP.	9004	10 29	3 34 50.60	4 49 54	74 05				434013
10415	JUPITER'BN, FLA.	9010	10 29	9 31 46.65	4 59 18	80 17				434013
30182	SACRAMENTO, CAL.	8517	10 29	11 27 37.5			0 00	56 40		845304
10405	ORGAN PASS'BN, N.M.	9001	10 29	11 31 09.30	1 55 06	85 25				434013
10414	NAINI TAL'BN, INDIA	9006	10 29	23 22 00.96	13 49 06	80 09				434013
30177	ROCHESTER, N.Y.	8564	10 30	9 08 46.4	6 29 34	62 13				845034
30178	N. CANTON, OHIO	8565	10 30	9 09 40.2	9 36 30	61 20				845043

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10420	WOOMERA BN. AUSTR.	9005	10 30	10 21 07.78	22 42 00	-46 55				434023
10419	WOOMERA BN. AUSTR.	9005	10 30	12 24 24.14	20 43 12	0 42				434013
10418	SACRAMENTO, CAL.	8517	10 30	19 08 28.8			0 00	54 43		641304
10409	OLIFANTFENTIN BN. S. AF	9002	10 30	18 15 51.30	22 05 54	-41 22				434023
10422	VILLA DOLORES BN. ARG	9011	10 31	0 08 05.54	21 38 24	-33 43				434023
30186	N. CANTON, OHIO	8559	10 31	8 43 07.8	5 50 10	68 12				845033
10418	ORGAN PASS BN. N.M.	9001	10 31	10 41 03.50	0 53 48	78 13				434013
10421	WOOMERA BN. AUSTR.	9003	10 31	12 01 01.04	21 09 54	6 13				434013
30184	SACRAMENTO, CAL.	8517	10 31	12 43 44.5			0 00	54 04		641304
10423	OLIFANTFENTIN BN. S. AF	9002	10 31	17 50 52.59	21 44 00	-48 19				434023
10425	TOKYO BN. JAPAN	9005	10 31	18 35 24.60	5 39 00	82 47				434013
10426	NAINI TAL BN. INDIA	9006	10 31	22 31 47.71	14 30 12	86 03				434013
10424	SAN FERNANDO BN. SP.	9004	11 01	4 26 10.10	6 49 36	80 56				434013
30192	DENVER, COLO.	8592	11 01	10 12 45.75			356 36	57 00		845303
10430	WOOMERA BN. AUSTR.	9003	11 01	11 36 43.73	21 11 42	6 07				434013
30187	SACRAMENTO, CAL.	8517	11 01	12 19 00.3			0 00	53 28		641304
30193	DENVER, COLO.	8592	11 01	12 23 48.6			20 00	71 00		845303
10431	NAINI TAL BN. INDIA	9006	11 01	22 07 22.25	13 26 00	83 50				434013
30194	DENVER, COLO.	8592	11 01	9 52 58.2			355 00	56 30		845303
10432	ORGAN PASS BN. N.M.	9001	11 01	9 53 53.10	0 16 00	87 14				434013
10434	WOOMERA BN. AUSTR.	9003	11 01	11 11 43.75	20 49 54	0 47				434013
30195	DENVER, COLO.	8592	11 01	11 59 03.5			18 24	60 42		845303
10433	ORGAN PASS BN. N.M.	9001	11 01	11 59 44.30	10 57 00	73 57				434013
10438	TOKYO BN. JAPAN	9005	11 01	17 46 13.30	6 41 30	82 22				434013
10439	TOKYO BN. JAPAN	9005	11 01	18 34 27.50	7 36 46	65 00				434013
10440	NAINI TAL BN. INDIA	9006	11 01	21 42 31.42	13 22 24	84 49				434013
10437	NAINI TAL BN. INDIA	9006	11 01	23 49 37.02	11 07 12	66 13				434013
10445	SAN FERNANDO BN. SP.	9004	11 01	3 37 36.30	7 32 30	80 20				434013
10440	NAINI TAL BN. INDIA	9006	11 01	23 13 13.71	10 43 42	80 34				434013
10441	AREQUIPA BN. PERU	9007	11 01	0 36 11.23	22 21 00	-23 55				434023
10442	AREQUIPA BN. PERU	9007	11 01	0 38 13.53	23 40 12	-2 06				434013
10443	SHIRAZ BN. IRAN	9008	11 01	2 23 04.14	21 19 06	70 54				434013
10444	JUPITER BN. FLA.	9010	11 01	9 09 43.50	17 42 30	86 10				434013
10449	WOOMERA BN. AUSTR.	9003	11 01	10 11 17.11	20 59 18	-4 31				434013
10445	OLIFANTFENTIN BN. S. AF	9002	11 01	18 27 47.76	20 53 42	5 59				434013
10450	NAINI TAL BN. INDIA	9006	11 01	23 30 14.03	11 54 54	65 33				434013
10443	CUPACABO BN. N.W.I.	9009	11 01	0 17 15.78	1 08 36	-46 30				434023
10442	SHIRAZ BN. IRAN	9008	11 01	0 38 13.71	21 14 48	71 05				434013
10443	OLIFANTFENTIN BN. S. AF	9002	11 01	17 54 21.8	20 12 24	0 37				434013
10447	TOKYO BN. JAPAN	9005	11 01	18 37 30.80	6 32 30	72 35				434013
30222	MITAKA, JAPAN	9019	11 01	18 38 01.0			16 14	51 56		845303
10451	NAINI TAL BN. INDIA	9006	11 01	22 35 11.53	11 40 00	70 12				434013
10454	VILLA DOLORES BN. ARG	9011	11 01	23 41 42.34	17 16 30	-5 08				434013
10455	VILLA DOLORES BN. ARG	9011	11 01	23 46 17.63	21 53 16	25 10				434013
30196	DENVER, COLO.	8592	11 01	12 17 37.1			12 06	62 10		845303
30191	ST. LOUIS, MO.	8540	11 01	13 21 10.7	7 44 00	59 54				845024
30197	DENVER, COLO.	8592	11 01	13 25 25.5			212 12	75 54		845303
10456	MAUI BN. HAWAII	9012	11 01	14 11 13.44	12 53 30	66 16				434013
10445	OLIFANTFENTIN BN. S. AF	9002	11 01	17 28 11.02	20 29 42	-1 34				434013
10448	TOKYO BN. JAPAN	9005	11 01	18 12 01.40	6 11 54	74 21				434013
30223	MITAKA, JAPAN	9019	11 01	18 13 14.3			14 48	49 30		845303
10458	NAINI TAL BN. INDIA	9006	11 01	22 32 11.54	11 27 54	74 01				434013
10457	CUPACABO BN. N.W.I.	9009	11 01	23 30 07.48	1 34 36	-36 25				434023
10452	SHIRAZ BN. IRAN	9008	11 01	0 38 13.71	21 01 54	75 12				434013
10459	NAINI TAL BN. INDIA	9006	11 01	0 14 26.75	11 11 00	53 48				434013
10463	JUPITER BN. FLA.	9010	11 01	9 07 50.43	17 46 48	84 23				434013
10464	JUPITER BN. FLA.	9010	11 01	10 03 40.74	17 46 24	80 58				434013
10465	JUPITER BN. FLA.	9010	11 01	10 07 11.70	17 47 14	85 08				434013
30198	DENVER, COLO.	8592	11 01	12 03 44.1			210 30	60 00		845303
10466	TOKYO BN. JAPAN	9005	11 01	17 46 13.30	6 44 48	72 44				434013
10467	TOKYO BN. JAPAN	9005	11 01	19 04 11.05	6 54 12	34 43				434013
10468	NAINI TAL BN. INDIA	9006	11 01	21 40 50.08	11 26 36	69 32				434013
10461	NAINI TAL BN. INDIA	9006	11 01	23 52 27.18	10 11 18	56 59				434013
10468	JUPITER BN. FLA.	9010	11 01	9 36 04.05	5 09 30	80 58				434013
30199	N. CANTON, OHIO	8559	11 01	9 36 26.5	7 22 12	41 27				845033
10469	JUPITER BN. FLA.	9010	11 01	9 42 05.61	11 44 06	53 50				434013
30210	SACRAMENTO, CAL.	8517	11 01	11 31 15.7			0 00	63 13		641304
30211	DENVER, COLO.	8592	11 01	11 33 56.7			290 12	60 24		845303
10475	MAUI BN. HAWAII	9012	11 01	15 37 33.22	13 44 12	53 05				434013
10470	NAINI TAL BN. INDIA	9006	11 01	21 21 16.33	11 18 54	68 36				434013
10471	CUPACABO BN. N.W.I.	9009	11 01	0 42 23.42	21 27 30	-28 49				434023
10473	SAN FERNANDO BN. SP.	9004	11 01	3 15 35.10	9 20 30	62 00				434013
10474	SAN FERNANDO BN. SP.	9004	11 01	3 19 01.10	7 25 30	31 44				434013
10483	JUPITER BN. FLA.	9010	11 01	9 15 11.13	12 02 54	54 38				434013
10472	CUPACABO BN. N.W.I.	9009	11 01	9 19 23.27	11 54 36	61 28				434013
10476	ORGAN PASS BN. N.M.	9001	11 01	11 11 27.46	0 10 00	61 55				434013
10485	MAUI BN. HAWAII	9012	11 01	15 44 13.46	11 44 18	41 25				434013
10477	NAINI TAL BN. INDIA	9006	11 01	23 02 13.10	9 33 36	59 20				434013
10486	JUPITER BN. FLA.	9010	11 10	0 21 05.27	6 57 18	-32 10				434023
10487	JUPITER BN. FLA.	9010	11 10	0 22 26.39	1 27 00	-25 40				434023
10483	SHIRAZ BN. IRAN	9008	11 10	0 59 54.79	8 22 12	54 25				434013
30202	PUEBLA, MEX.	8506	11 10	2 18 34.8	23 03 18	-27 36				845043
10488	JUPITER BN. FLA.	9010	11 10	8 46 44.54	5 12 24	83 33				434013
10489	JUPITER BN. FLA.	9010	11 10	8 49 10.99	10 26 54	67 22				434013

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10510	JUPITER'BN, FLA.	9010	11 10	8 53 40.96	11 35 18	29 16				434013
10484	CURACAO'BN, N.W.I.	9009	11 10	8 57 08.20	12 18 54	44 20				434013
30203	DENVER, COLO.	8592	11 10	10 46 31.2			53 12	88 06		845303
10480	ORGAN PASS'BN, N.M.	9001	11 10	10 48 15.60	9 33 48	50 39				434013
10511	JUPITER'BN, FLA.	9010	11 10	10 52 29.94	8 11 00	37 12				434013
10512	JUPITER'BN, FLA.	9010	11 10	10 54 06.59	7 31 24	27 10				434013
10481	ORGAN PASS'BN, N.M.	9001	11 10	12 48 15.60	4 41 42	26 52				434013
30204	SACRAMENTO, CAL.	8517	11 10	12 48 54.0			180 00	65 11		845304
10482	ORGAN PASS'BN, N.M.	9001	11 10	12 52 23.70	7 18 30	4 34				434013
30247	MITAKA, JAPAN	0229	11 10	18 40 06.4			30 42	78 54		845303
10488	TOKYO'BN, JAPAN	9005	11 10	18 41 36.70	8 58 48	31 53				434013
10490	NAINI TAL'BN, INDIA	9006	11 10	22 37 52.81	9 46 30	48 48				434013
10524	CURACAO'BN, N.W.I.	9009	11 10	23 56 05.80	23 14 54	-11 24				434013
10497	SHIRAZ'BN, IRAN	9008	11 11	0 34 47.03	8 55 30	51 59				434013
30205	PUEBLA, MEX.	0900	11 11	1 54 02.7	23 07 54	-29 46				845043
10486	ORGAN PASS'BN, N.M.	9001	11 11	1 57 08.50	1 40 12	-27 06				434023
10525	CURACAO'BN, N.W.I.	9009	11 11	8 32 28.79	12 10 54	43 53				434013
30206	SACRAMENTO, CAL.	8517	11 11	12 23 53.6			180 00	70 55		845304
30207	CHINA LAKE, CAL.	8588	11 11	12 24 37.3			217 09 36	75 48 00		845303
10491	NAINI TAL'BN, INDIA	9006	11 11	13 45 11.31	0 38 00	-22 20				434013
10489	TOKYO'BN, JAPAN	9005	11 11	18 14 30.30	6 33 18	54 29				434013
30248	MITAKA, JAPAN	0229	11 11	18 15 21.3			29 06	74 48		845303
10492	NAINI TAL'BN, INDIA	9006	11 11	22 12 43.81	9 27 48	54 55				434013
10501	CURACAO'BN, N.W.I.	9009	11 11	23 31 36.84	23 22 48	-13 42				434013
10498	SHIRAZ'BN, IRAN	9008	11 12	0 13 56.93	8 48 06	55 29				434013
10493	NAINI TAL'BN, INDIA	9006	11 12	0 17 49.78	7 27 42	0 49				434013
30208	CINCINNATI, OHIO	0050	11 12	1 34 55.62	23 19 54	-29 39				845004
10502	CURACAO'BN, N.W.I.	9009	11 12	1 35 02.84	20 09 48	27 22				434013
30209	CINCINNATI, OHIO	0050	11 12	6 01 15.6	9 51 18	43 35				845004
10514	JUPITER'BN, FLA.	9010	11 12	8 01 26.38	10 48 36	53 18				434013
30210	CINCINNATI, OHIO	0050	11 12	10 01 53.3	6 38 36	15 05				845004
10515	JUPITER'BN, FLA.	9010	11 12	10 02 13.06	4 58 48	48 24				434013
30211	N. CANTON, OHIO	8562	11 12	10 04 19.7	7 44 06	-5 23				845042
30212	N. CANTON, OHIO	8559	11 12	10 05 43.7	8 24 32	-12 22				845035
10711	JUPITER'BN, FLA.	9010	11 12	10 08 17.71	8 37 18	21 55				434013
10494	NAINI TAL'BN, INDIA	9006	11 12	21 49 18.20	10 06 54	42 20				434013
10503	CURACAO'BN, N.W.I.	9009	11 12	23 07 11.45	13 30 30	-15 11				434013
10499	SHIRAZ'BN, IRAN	9008	11 12	23 47 25.88	9 35 06	45 57				434013
10495	NAINI TAL'BN, INDIA	9006	11 12	23 54 48.31	6 40 18	-8 18				434013
10504	CURACAO'BN, N.W.I.	9009	11 13	1 11 35.35	20 40 48	36 24				434013
10500	SHIRAZ'BN, IRAN	9008	11 13	1 50 54.16	6 42 30	4 54				434013
10487	SAN FERNANDO'BN, SP.	9004	11 13	5 45 55.30	6 45 06	-5 10				434013
10518	MAUI'BN, HAWAII	9011	11 13	7 05 44.09	20 30 06	14 07				434013
30213	CINCINNATI, OHIO	0050	11 13	7 38 27	10 05 36	14 17				845004
10516	JUPITER'BN, FLA.	9010	11 13	9 42 47.28	10 21 18	14 28				434013
10517	JUPITER'BN, FLA.	9010	11 13	9 44 37.12	10 08 30	1 08				434013
30214	CHINA LAKE, CAL.	8588	11 13	11 32 11.6			214 25 24	85 31 12		845303
30215	DENVER, COLO.	8584	11 13	11 37 06.6			222 00	46 00		845303
10519	MAUI'BN, HAWAII	9012	11 13	13 32 40.74	10 11 00	59 26				434013
10496	NAINI TAL'BN, INDIA	9006	11 13	14 58 59.33	11 52 48	2 32				434013
10521	SAN FERNANDO'BN, SP.	9004	11 13	18 34 48.90	1 33 48	-12 20				434013
10523	TOKYO'BN, JAPAN	9005	11 13	19 29 36.70	5 53 54	7 48				434013
10562	SHIRAZ'BN, IRAN	9008	11 13	23 23 44.72	9 56 06	37 45				434013
10529	JUPITER'BN, FLA.	9010	11 14	0 43 32.41	21 28 00	-27 43				434023
10530	JUPITER'BN, FLA.	9010	11 14	0 47 06.18	23 05 16	-8 46				434013
10531	JUPITER'BN, FLA.	9010	11 14	0 49 25.09	0 35 42	13 18				434013
10563	SHIRAZ'BN, IRAN	9008	11 14	1 26 14.82	6 34 48	8 27				434013
10520	ORGAN PASS'BN, N.M.	9001	11 14	2 47 34.90	23 50 24	-0 09				434013
10522	SAN FERNANDO'BN, SP.	9004	11 14	5 21 23.90	6 20 00	-4 00				434013
10543	MAUI'BN, HAWAII	9012	11 14	6 43 33.78	21 21 30	35 31				434013
10532	JUPITER'BN, FLA.	9010	11 14	9 45 23.37	7 41 14	43 53				434013
10533	JUPITER'BN, FLA.	9010	11 14	9 47 42.98	9 02 48	22 02				434013
10505	CURACAO'BN, N.W.I.	9009	11 14	9 22 37.68	9 46 00	29 48				434013
30216	DENVER, COLO.	8592	11 14	11 12 27.7			220 54	49 15 00		845303
30217	PUEBLA, MEX.	0900	11 14	11 16 36.1	8 17 12	25 26				845043
10544	MAUI'BN, HAWAII	9012	11 14	13 09 36.48	10 43 48	53 55				434013
10545	MAUI'BN, HAWAII	9012	11 14	13 14 11.23	7 32 42	22 08				434013
10527	TOKYO'BN, JAPAN	9005	11 14	19 08 24.10	7 36 06	-9 34				434013
10528	NAINI TAL'BN, INDIA	9006	11 14	23 03 02.34	6 39 18	18 26				434013
10537	CURACAO'BN, N.W.I.	9009	11 15	0 19 52.03	14 30 18	1 30				434013
10534	JUPITER'BN, FLA.	9010	11 15	0 22 41.61	23 11 24	-8 46				434013
10535	JUPITER'BN, FLA.	9010	11 15	0 23 45.75	23 50 42	0 41				434013
10538	CURACAO'BN, N.W.I.	9009	11 15	0 25 44.09	22 17 30	63 59				434013
10536	SHIRAZ'BN, IRAN	9008	11 15	1 02 14.35	6 34 42	6 57				434013
10526	ORGAN PASS'BN, N.M.	9001	11 15	2 23 59.40	0 24 42	2 32				434013
30218	PUEBLA, MEX.	0900	11 15	2 24 48.6	23 41 24	57 14				845043
30220	DENVER, COLO.	8592	11 15	2 26 26.1			136 30	40 39 00		845303
10546	SAN FERNANDO'BN, SP.	9004	11 15	4 55 15.10	5 52 36	1 42				434013
10540	JUPITER'BN, FLA.	9010	11 15	8 51 42.94	8 13 00	38 09				434013
10541	JUPITER'BN, FLA.	9010	11 15	8 52 13.34	8 34 00	33 03				434013
10542	JUPITER'BN, FLA.	9010	11 15	8 55 28.78	10 02 48	3 52				434013
10539	CURACAO'BN, N.W.I.	9009	11 15	8 58 17.64	4 58 24	29 03				434013
10547	TOKYO'BN, JAPAN	9005	11 15	10 16 28.80	23 36 48	1 49				434013
30221	DENVER, COLO.	8592	11 15	10 47 49.6			219 45 00	52 45 00		845303
30219	PUEBLA, MEX.	0900	11 15	10 54 12.4	8 15 00	23 08				845043
10549	NAINI TAL'BN, INDIA	9006	11 15	14 12 26.03	23 50 42	18 35				434013
10552	SHIRAZ'BN, IRAN	9008	11 15	16 10 45.21	23 21 54	20 34				434013
30249	MITAKA, JAPAN	0229	11 15	18 41 27.0			221 30	56 30		845303
10548	TOKYO'BN, JAPAN	9005	11 15	18 41 47.10	6 19 48	6 24				434013
10550	SAN FERNANDO'BN, SP.	9004	11 15	20 07 43.00	23 46 00	5 29				434013

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10553	CURACAOBN, N.W.I.	9009	11 15	23 58 40.00	20 41 12	41 48				434013
10554	JUPITERBN, FLA.	9010	11 15	23 59 43.05	0 08 48	2 01				434013
30224	PUEBLA, MEX.	8900	11 16	2 00 46.0	0 09 06	37 49				845043
10555	JUPITERBN, FLA.	9010	11 16	2 01 47.00	20 31 00	29 39				434013
10551	SAN FERNANDOBN, SP.	9004	11 16	4 32 37.00	0 18 30	-2 02				434013
10557	NAINI TAL'BN, INDIA	9006	11 16	13 47 10.16	0 01 54	17 16				434013
10559	SHIRAZBN, IRAN	9008	11 16	15 47 01.98	0 03 12	24 33				434013
10546	SAN FERNANDOBN, SP.	9004	11 16	19 44 09.20	0 23 30	10 03				434013
10548	NAINI TAL'BN, INDIA	9006	11 16	22 17 08.14	8 40 00	-2 35				434013
10561	JUPITERBN, FLA.	9010	11 16	23 31 40.01	22 09 18	-27 33				434023
30225	PUEBLA, MEX.	8900	11 17	1 36 35.3	0 38 54	56 06				845043
30226	CINCINNATI, OHIO	8950	11 17	1 39 09	23 04 00	10 36				845004
30242	CHINA LAKE, CAL.	8988	11 17	3 34 30.0			216 31 48	49 58 12		845303
30233	CHINA LAKE, CAL.	8988	11 17	3 37 34.2			143 47 24	78 54 36		845303
10560	CURACAOBN, N.W.I.	9009	11 17	8 09 44.88	10 09 00	29 28				434013
10564	NAINI TAL'BN, INDIA	9006	11 17	15 25 40.80	20 01 48	37 52				434013
10565	NAINI TAL'BN, INDIA	9006	11 17	23 51 35.48	4 49 18	-5 40				434013
30227	STATE COLLEGE, PA.	8994	11 18	1 15 51.0			213 36	57 36		845303
30228	STATE COLLEGE, PA.	8994	11 18	1 16 00.1			212 34	58 34		845303
30229	N. CANTON, OHIO	8984	11 18	1 16 04.6	23 46 16	13 32				845033
30230	ROCHESTER, N.Y.	8984	11 18	1 16 10.0	22 51 12	6 55				845014
30240	N. CANTON, OHIO	8984	11 18	1 16 15.0	23 30 05	13 25				845013
30234	CHINA LAKE, CAL.	8988	11 18	3 21 51.8			142 36 36	73 45 00		841303
10568	MAUIBN, HAWAII	9011	11 18	9 06 20.70	22 30 18	37 24				434013
10569	MAUIBN, HAWAII	9011	11 18	9 10 38.46	19 06 42	52 18				434013
10570	TOYOTON, JAPAN	9003	11 18	9 03 48.80	0 02 36	-2 09				434013
10543	JUPITERBN, FLA.	9011	11 18	9 40 56.48	0 28 48	1 51				434013
10540	JUPITERBN, FLA.	9011	11 18	9 43 18.71	0 32 06	-14 52				434013
10578	NAINI TAL'BN, INDIA	9006	11 18	15 22 17.85	19 42 24	47 34				434013
10541	MAUIBN, HAWAII	9011	11 18	15 40 56.55	0 02 36	-22 10				434013
10567	ORGAN PAISON, N.W.	9001	11 19	0 45 39.00	23 57 42	-7 35				434013
10566	ORGAN PAISON, N.W.	9001	11 19	1 30 13.75	22 38 36	46 52				434013
10571	TOYOTON, JAPAN	9003	11 19	8 39 14.80	23 58 30	-3 35				434013
10572	TOYOTON, JAPAN	9003	11 19	10 43 58.80	22 59 36	48 37				434013
10579	HIJASHIMATSUBAYAMA, AP	9005	11 19	10 44 00.7	23 25 00	48 48				845002
10574	NAINI TAL'BN, INDIA	9006	11 19	14 38 15.45	21 06 42	54 13				434013
10574	SHIRAZBN, IRAN	9008	11 19	16 37 29.80	21 12 16	60 15				434013
10549	SAN FERNANDOBN, SP.	9004	11 19	18 35 59.60	0 24 24	5 35				434013
10575	TOYOTON, JAPAN	9003	11 19	19 08 20.20	0 34 12	-22 35				434013
10547	NAINI TAL'BN, INDIA	9006	11 19	23 31 45.12	0 53 18	-22 51				434013
10545	JUPITERBN, FLA.	9011	11 20	0 25 44.55	21 43 18	47 22				434013
30222	ALBANY, N.Y.	8981	11 20	0 26 18.7	22 57 00	19 25				845042
30235	N. CANTON, OHIO	8984	11 20	0 26 44.3	23 03 47	6 16				845013
30236	TERRE HAUTE, IND.	8981	11 20	0 26 54.6			135	55 25		845303
30237	DAYTON, OHIO	8987	11 20	0 26 04.1			138 40	57 13		845303
10566	JUPITERBN, FLA.	9011	11 20	0 27 17.45	23 46 00	60 50				434013
10567	JUPITERBN, FLA.	9011	11 20	0 29 19.36	23 16 42	63 40				434013
30245	CINCINNATI, OHIO	8950	11 20	2 35 12.1	22 18 06	40 17				845043
30246	CINCINNATI, OHIO	8950	11 20	2 35 14	22 30 30	40 22				845004
10568	ORGAN PAISON, N.W.	9001	11 20	2 25 39.97	22 44 06	44 48				434013
10591	MAUIBN, HAWAII	9011	11 20	6 12 37.48	19 24 48	68 15				434013
10592	CURACAOBN, N.W.I.	9009	11 20	6 58 40.13	6 22 00	-6 29				434013
10577	TOYOTON, JAPAN	9003	11 20	10 18 54.50	22 31 18	42 16				434013
30247	HIJASHIMATSUBAYAMA, AP	9005	11 20	10 19 50.7			0 00	76 00		845303
10573	NAINI TAL'BN, INDIA	9006	11 20	14 11 11.45	20 18 00	38 41				434013
10573	SHIRAZBN, IRAN	9008	11 20	16 11 54.76	20 34 42	49 50				434013
10574	NAINI TAL'BN, INDIA	9006	11 20	22 42 06.15	0 13 24	-27 20				434023
10547	JUPITERBN, FLA.	9011	11 21	0 00 00.34	20 56 42	33 27				434013
10548	JUPITERBN, FLA.	9011	11 21	0 00 35.48	21 11 12	39 38				434013
30239	N. CANTON, OHIO	8984	11 21	0 01 14.3	22 16 52	-1 40				845033
10596	CURACAOBN, N.W.I.	9009	11 21	0 01 13.74	18 46 06	60 00				434013
30239	N. CANTON, OHIO	8984	11 21	0 01 17.3	23 34 08	11 57				845013
30240	ROCHESTER, N.Y.	8984	11 21	0 03 01.47	0 00 42	15 41				845014
30242	CINCINNATI, OHIO	8950	11 21	0 26 58.4	23 58 36	13 38				845004
10592	ORGAN PAISON, N.W.	9001	11 21	1 00 47.08	22 49 18	39 18				434013
10599	JUPITERBN, FLA.	9010	11 21	1 04 23.63	19 09 48	51 04				434013
10600	JUPITERBN, FLA.	9010	11 21	2 05 27.33	19 14 30	59 48				434013
30242	CINCINNATI, OHIO	8950	11 21	2 26 16.3	20 56 00	28 23				845004
30240	SACRAMENTO, CAL.	8990	11 21	4 02 40.22	22 07 12	44 48				845013
10612	MAUIBN, HAWAII	9011	11 21	5 58 14.64	19 36 00	70 46				434013
10612	MAUIBN, HAWAII	9011	11 21	14 28 03.12	6 14 48	-24 25				434023
10616	SHIRAZBN, IRAN	9008	11 21	15 48 10.00	21 18 42	51 39				434013
10610	JUPITERBN, FLA.	9010	11 21	23 29 49.03	18 39 48	-13 46				434013
10611	JUPITERBN, FLA.	9010	11 21	23 35 59.00	21 25 30	36 48				434013
10617	CURACAOBN, N.W.I.	9009	11 21	23 36 13.10	18 16 48	57 40				434013
30243	TERRE HAUTE, IND.	8981	11 21	23 37 14.4			138	46 00		845303
30245	DAYTON, OHIO	8987	11 21	23 37 51.6			140 00	50 36		845303
10612	JUPITERBN, FLA.	9010	11 21	23 40 54.09	2 44 48	56 04				434013
0603	ORGAN PAISON, N.W.	9001	11 22	1 32 56.76	20 19 00	6 20				434013
0718	ORGAN PAISON, N.W.	9001	11 22	1 34 49.21	21 22 42	23 24				434014
0604	ORGAN PAISON, N.W.	9001	11 22	1 37 47.90	0 13 48	47 05				434013
0244	TERRE HAUTE, IND.	8127	11 22	1 41 52.0			336	76 00		845303
0613	JUPITERBN, FLA.	9010	11 22	1 41 55.68	19 14 48	69 12				434013
0605	ORGAN PAISON, N.W.	9001	11 22	3 40 31.30	20 23 18	61 14				434013
0614	NAINI TAL'BN, INDIA	9006	11 22	13 25 19.40	22 04 54	57 05				434013
0617	JUPITERBN, FLA.	9010	11 22	23 10 30.16	20 48 42	24 24				434013
0616	CURACAOBN, N.W.I.	9009	11 22	23 10 46.76	18 03 00	51 43				434013
0618	JUPITERBN, FLA.	9010	11 22	23 12 26.33	22 27 54	43 07				434013

OBS NO.	STATION	STA NO	DATE	TIME	R. A.	DECL.	AZIMUTH	ALTITUDE	RANGE	INCL.
10619	JUPITER*BN, FLA.	9010	11 22	13 15 10.24	1 26 54	53 34				434013
30246	ROCHESTER, N.Y.	8964	11 22	13 16 04.1	0 11 36	17 54				845013
10620	JUPITER*BN, FLA.	9010	11 23	1 17 10.62	19 08 54	68 42				434013
10615	ORGAN PASS*BN, N.M.	9001	11 23	3 17 18.63	21 03 06	74 42				434013
10630	VILLA COLORES*BN, ARG	9011	11 23	7 59 49.47	11 51 00	7 50				434013
10626	JUPITER*BN, FLA.	9010	11 24	0 51 34.48	18 51 00	60 26				434013
30291	TERRE HAUTE, IND.	8127	11 24	0 52 27.2			333	82 45		845303
30292	MILWAUKEE, WISC.	0074	11 24	0 52 48.2	23 31	34 36				641043
10653	CINCINNATI, OHIO	9050	11 24	0 53 04.9	22 52 00	50 53				845004
10655	STATE COLLEGE, PA.	8994	11 24	0 55 28.3			3 12	72 42		845303
30256	WALNUT CREEK, CAL.	8956	11 24	2 49 02.6	22 40 30	41 54				845004
30297	DENVER, COL.	8992	11 24	2 53 32.7			342 36	66 21 00		845303
30294	CINCINNATI, OHIO	9050	11 24	2 53 49.7	20 06 06	37 00				845004
10617	AREQUIPA*BN, PERU	9007	11 24	7 28 29.71	10 33 48	18 43				434013
10622	TOKYO*BN, JAPAN	9005	11 24	8 40 56.50	22 51 36	34 04				434013
10623	NAINI TAL*BN, INDIA	9006	11 24	12 35 06.64	21 11 18	43 14				434013
10624	NAINI TAL*BN, INDIA	9006	11 24	14 41 03.13	18 58 48	73 36				434013
10621	SAN FERNANDO*BN, SP.	9004	11 24	18 51 12.60	22 14 18	34 24				434013
30258	TERRE HAUTE, IND.	8127	11 25	3 27 42.6			329 30	66 30		845303
30259	ST. LOUIS, MO.	0040	11 25	0 27 57.4	23 46 12	45 38				845012
10627	JUPITER*BN, FLA.	9010	11 25	3 28 58.33	19 55 00	78 59				434013
10628	JUPITER*BN, FLA.	9010	11 25	0 30 01.27	23 51 00	85 41				434013
10627	JUPITER*BN, FLA.	9010	11 25	3 31 51.30	5 30 12	75 18				434013
10644	VILLA COLORES*BN, ARG	9011	11 25	7 36 50.96	10 37 18	29 01				434013
10645	VILLA COLORES*BN, ARG	9011	11 25	7 37 07.16	11 13 36	12 42				434013
10625	CORACAU*BN, N.M.	9029	11 25	9 01 08.10	5 54 30	-34 39				434023
10635	NAINI TAL*BN, INDIA	9006	11 25	14 18 11.92	1 07 00	87 32				434013
10646	SAN FERNANDO*BN, SP.	9004	11 25	18 56 46.10	22 40 42	32 26				434013
10643	SAN FERNANDO*BN, SP.	9004	11 25	20 12 01.60	21 37 06	71 12				434013
30260	MILWAUKEE, WISC.	0074	11 26	3 32 36.7	22 34	24 18				641043
10642	JUPITER*BN, FLA.	9010	11 26	3 35 48.63	4 27 18	78 17				434013
30261	FORT WORTH, TEX.	0139	11 26	2 06 38.1	0 00 00	83 36				845013
10652	CINCINNATI, OHIO	9050	11 26	2 07 14.9	10 42 48	57 58				845004
30263	MILWAUKEE, WISC.	0074	11 26	2 07 36.8	10 36	57 24				641043
30264	MILWAUKEE, WISC.	0074	11 26	2 07 39.2	10 40	56 24				641043
10619	CORACAU*BN, N.M.	9029	11 26	8 37 24.36	5 54 18	-40 52				434023
10638	AREQUIPA*BN, PERU	9007	11 26	8 38 48.79	6 32 42	17 16				434013
10631	WOOMERA*BN, AUSTR.	9003	11 26	16 35 42.6	10 05 36	3 57				434013
10641	JUPITER*BN, FLA.	9010	11 26	13 35 48.43	18 56 36	42 52				434013
10642	JUPITER*BN, FLA.	9010	11 26	13 37 51.03	18 44 06	62 18				434013
10643	JUPITER*BN, FLA.	9010	11 26	13 39 34.88	20 19 36	77 53				434013
10634	TOKYO*BN, JAPAN	9005	11 27	9 30 35.40	19 57 30	56 35				434013
30301	HIGASHIMATSUYAMA, JAP	0210	11 27	9 32 44.7			0 00	52 42		845302
10636	NAINI TAL*BN, INDIA	9006	11 27	13 24 07.40	18 09 18	46 36				434013
10632	WOOMERA*BN, AUSTR.	9003	11 27	16 11 14.61	10 02 12	5 25				434013
10651	JUPITER*BN, FLA.	9010	11 27	23 11 39.82	18 06 12	46 06				434013
30267	CINCINNATI, OHIO	9050	11 27	23 14 12.2	22 06 36	37 41				845004
10652	JUPITER*BN, FLA.	9010	11 27	23 14 34.70	19 59 48	74 38				434013
10653	VILLA COLORES*BN, ARG	9011	11 28	7 53 41.39	7 05 48	27 22				434013
10654	VILLA COLORES*BN, ARG	9011	11 28	7 57 43.32	9 09 18	3 38				434013
10657	TOKYO*BN, JAPAN	9005	11 28	9 06 16.00	20 11 00	59 01				434013
10658	NAINI TAL*BN, INDIA	9006	11 28	13 31 48.65	18 40 54	68 33				434013
10659	NAINI TAL*BN, INDIA	9006	11 28	15 07 18.68	16 07 48	74 33				434013
10655	WOOMERA*BN, AUSTR.	9003	11 28	17 46 22.76	9 45 48	9 10				434013
10656	SAN FERNANDO*BN, SP.	9004	11 28	18 57 21.10	20 18 00	62 49				434013
10660	ORGAN PASS*BN, N.M.	9001	11 29	0 49 42.06	22 11 30	71 25				434013
10662	JUPITER*BN, FLA.	9010	11 29	0 56 35.80	12 02 30	86 15				434013
30268	FORT WORTH, TEX.	0139	11 29	0 56 42.6	23 04 10	79 54				845013
10663	JUPITER*BN, FLA.	9010	11 29	0 57 26.74	8 17 30	82 20				434013
50124	SPOKANE, WASH.	6142	11 29	2 32 39.7			180	83 35 20		845309
10661	ORGAN PASS*BN, N.M.	9001	11 29	2 55 01.39	20 12 30	87 01				434013
10665	NAINI TAL*BN, INDIA	9006	11 29	12 35 57.03	18 06 30	56 28				434013
10666	NAINI TAL*BN, INDIA	9006	11 29	14 43 40.44	17 16 00	83 00				434013
10664	SAN FERNANDO*BN, SP.	9004	11 29	18 32 45.50	20 16 54	62 19				434013
10671	OLIFANTSENT*BN, S.AF	9002	11 30	1 14 45.10	8 40 24	-10 25				434013
10668	ORGAN PASS*BN, N.M.	9001	11 30	2 28 42.75	18 23 24	71 45				434013
30270	KANSAS CITY, MO.	0036	11 30	2 32 04.8			334 18	50 00		845302
30269	KANSAS CITY, MO.	0036	11 30	2 32 07			334 18	50 00		845303
10667	AREQUIPA*BN, PERU	9007	11 30	7 03 38.20	8 05 42	0 44				434013
10669	VILLA COLORES*BN, ARG	9011	11 30	7 07 23.40	8 22 30	15 45				434013
10670	VILLA COLORES*BN, ARG	9011	11 30	7 12 28.16	11 12 36	-15 40				434013
10674	NAINI TAL*BN, INDIA	9006	11 30	14 19 43.62	12 14 00	87 48				434013
10676	WOOMERA*BN, AUSTR.	9003	11 30	16 57 13.44	9 29 42	12 19				434013
10672	SAN FERNANDO*BN, SP.	9004	11 30	18 07 48.10	20 21 54	58 12				434013
10673	SAN FERNANDO*BN, SP.	9004	11 30	20 14 48.20	1 18 00	81 49				434013
30271	TERRE HAUTE, IND.	8127	12 01	0 04 53.0			347	62 15		845303
10675	ORGAN PASS*BN, N.M.	9001	12 01	2 07 52.01	5 31 42	72 53				434013
10677	VILLA COLORES*BN, ARG	9011	12 01	6 41 25.49	7 38 12	25 15				434013
10680	VILLA COLORES*BN, ARG	9011	12 01	6 47 50.45	10 57 30	-12 55				434013
10688	TOKYO*BN, JAPAN	9005	12 01	9 59 37.20	2 11 00	81 35				434013
10677	WOOMERA*BN, AUSTR.	9003	12 01	16 32 23.18	9 13 48	15 10				434013
10678	SAN FERNANDO*BN, SP.	9004	12 01	19 49 31.60	22 45 30	80 38				434013
30272	MILWAUKEE, WISC.	0074	12 01	23 40 14.8	22 18	49 48				641043
30273	KANSAS CITY, MO.	0036	12 02	1 43 42.4			351 24	52 48		845303
30274	TERRE HAUTE, IND.	8127	12 02	1 45 07.8			346	54 48		845303

OBS NO	STATION	STA NO	DATE	TIME	S. A.	DECL.	AZIMUTH	ALTITUDE	RANGE	INDEX
10690	VILLA DOLORES*BN*ARG	9011	12 02	6 21 54.94	10 04 24	-3 40				434013
10691	VILLA DOLORES*BN*ARG	9011	12 02	6 25 18.72	11 39 54	-16 10				434013
10692	VILLA DOLORES*BN*ARG	9011	12 02	8 23 52.38	7 09 06	-38 15				434023
10689	NAINI TAL*BN, INDIA	9006	12 02	13 30 09.45	13 21 00	87 36				434013
10682	WOOMERA*BN, AUSTR.	9003	12 02	16 08 07.69	9 12 12	14 31				434013
10686	SAN FERNANDO*BN, SP.	9004	12 02	19 24 38.90	21 27 00	80 49				434013
10693	VILLA DOLORES*BN*ARG	9011	12 03	5 55 25.54	8 59 18	9 28				434013
10694	VILLA DOLORES*BN*ARG	9011	12 03	7 59 43.76	7 33 00	-40 20				434023
10696	TOYO*BN, JAPAN	9005	12 03	9 09 20.60	21 18 00	81 17				434013
30302	YATSUSHIRO, JAPAN	0272	12 03	11 12 29			0 00	37 42		845302
10683	WOOMERA*BN, AUSTR.	9003	12 03	17 47 28.65	7 58 42	-25 10				434023
50013	ROCHESTER, N.Y.	5050	12 03	22 53 30.6	22 43 30	57 18				845013
30275	CINCINNATI, OHIO	0050	12 04	0 57 18.0	1 00 24	73 28				845004
30277	N. CANTON, OHIO	8559	12 04	0 58 06.6	0 54 10	66 40				845014
30282	SACRAMENTO, CAL.	8517	12 04	2 53 16.5			0 00	51 19		641304
30283	SACRAMENTO, CAL.	8590	12 04	2 53 25.0	23 38 06	76 40				845013
30276	CINCINNATI, OHIO	0050	12 04	2 56 43.8	20 26 42	39 29				845006
30303	YATSUSHIRO, JAPAN	0272	12 04	10 47 39			0 00	38 18		845303
30304	KAGOSHIMA, JAPAN	0218	12 04	10 48 05	0 47	85 12				845002
10684	WOOMERA*BN, AUSTR.	9003	12 04	15 22 06.08	9 55 48	1 21				434013
10685	WOOMERA*BN, AUSTR.	9003	12 04	17 22 06.97	7 49 44	-40 20				434013
10687	SAN FERNANDO*BN, SP.	9004	12 04	18 55 22.30	21 45 00	80 15				434013
30278	N. CANTON, OHIO	8559	12 05	0 33 14.7	0 57 40	68 26				845014
10698	JUPITER*BN, FLA.	9010	12 05	0 34 43.0	6 58 18	79 29				434013
10699	JUPITER*BN, FLA.	9010	12 05	0 35 26.59	6 55 06	75 59				434013
30284	SACRAMENTO, CAL.	8590	12 05	2 28 54.1	23 30 36	76 32				845013
10700	VILLA DOLORES*BN*ARG	9011	12 05	7 06 50.54	5 22 00	-2 45				434013
10701	VILLA DOLORES*BN*ARG	9011	12 05	7 10 55.11	7 55 24	-37 30				434023
10704	NAINI TAL*BN, INDIA	9006	12 05	14 19 42.28	16 03 54	76 41				434013
10695	WOOMERA*BN, AUSTR.	9003	12 05	16 58 30.10	7 43 00	-16 00				434013
30285	ALNUT CREEK, CAL.	8586	12 06	2 24 37.3	1 42	75 48				845003
30286	ALNUT CREEK, CAL.	8586	12 06	2 24 41.6	2 18 15	73 16				845003
10702	ORGAN PASSION, N.M.	9001	12 06	2 28 16.40	4 06 00	82 23				434013
10697	AREQUIPA*BN, PERU	9007	12 06	6 41 52.08	5 41 48	-46 34				434023
10703	VILLA DOLORES*BN*ARG	9011	12 06	6 47 09.05	6 46 36	-40 15				434023
30305	YATSUSHIRO, JAPAN	0272	12 06	9 58 37			0 00	55 54		845302
10707	TOYO*BN, JAPAN	9005	12 06	10 01 32.40	2 29 30	74 15				434013
10705	WOOMERA*BN, AUSTR.	9003	12 06	16 53 19.75	7 57 42	-12 06				434013
10706	WOOMERA*BN, AUSTR.	9003	12 06	18 38 39.05	5 47 54	-62 53				434023
30287	EVANSTON, ILL.	0149	12 06	23 42 10.6	22 49	66 40				845012
10708	VILLA DOLORES*BN*ARG	9011	12 07	6 21 42.31	7 56 24	-30 59				434023
30306	KAGOSHIMA, JAPAN	0218	12 07	9 34 53	0 55	87 24				845002
10709	TOYO*BN, JAPAN	9005	12 07	9 35 30.60	11 55 00	79 24				434013
30307	KAGOSHIMA, JAPAN	0218	12 07	11 36 31.5	10 19	56 30				845002
10710	NAINI TAL*BN, INDIA	9006	12 07	13 32 39.77	5 41 46	83 02				434013
10711	WOOMERA*BN, AUSTR.	9003	12 07	16 08 36.94	7 16 48	-7 54				434013
10712	WOOMERA*BN, AUSTR.	9003	12 07	18 14 36.57	6 32 36	-67 52				434023
30288	DENVER, COLO.	8592	12 08	2 18 46.5			7 15 00	57 00		845303
30283	TERRE HAUTE, IND.	8127	12 08	2 23 17.0			0 00	71 22		845303
30289	SACRAMENTO, CAL.	8517	12 08	3 19 39.1			0 00	60 49		641304
10714	VILLA DOLORES*BN*ARG	9011	12 08	5 56 45.02	7 19 10	-22 10				434013
10716	VILLA DOLORES*BN*ARG	9011	12 08	7 59 34.34	4 43 30	-45 53				434023
10717	VILLA DOLORES*BN*ARG	9011	12 08	8 03 51.26	12 40 42	-80 06				434013
30308	HIGASHIMATSUYAMA, JAP	0210	12 08	9 11 24.0			0 00	45 18		845302
10718	TOYO*BN, JAPAN	9005	12 08	9 11 45.10	1 44 00	78 39				434013
10714	MITAKA, JAPAN	0229	12 08	9 24 03.2			11 46	45 00		845302
10712	WOOMERA*BN, AUSTR.	9003	12 08	15 45 39.68	6 17 46	-16 04				434013
10713	WOOMERA*BN, AUSTR.	9003	12 08	17 53 53.28	6 15 18	-72 05				434023
30290	DENVER, COLO.	8592	12 09	2 53 44.7			0 00	56 30		845303
30291	KANSAS CITY, MO.	3036	12 09	0 57 33			32 24	57 30		845302
30292	KANSAS CITY, MO.	3036	12 09	0 57 50			36 48	57 48		845303
10720	TOYO*BN, JAPAN	9005	12 09	8 46 01.40	10 47 00	80 36				434013
10720	WOOMERA*BN, AUSTR.	9003	12 09	17 24 06.10	5 21 00	-53 07				434023
10722	SAN FERNANDO*BN, SP.	9004	12 09	18 37 24.30	23 37 12	78 18				434013
30293	CINCINNATI, OHIO	0050	12 10	0 34 37.7	1 07 46	58 57				845004
30294	STATE COLLEGE, PA.	8574	12 10	0 37 22.7			19 24	71 24		845303
30295	N. CANTON, OHIO	8559	12 10	0 37 25.2	2 43 09	30 55				845013
30306	CHINA LAKE, CAL.	8586	12 10	2 32 15.6			19 32 24	51 27 00		845303
30348	ALBUQUERQUE, N.M.	8534	12 10	2 35 16.8	2 13 12	56 54				845043
30349	ALBUQUERQUE, N.M.	8534	12 10	2 35 29.0	2 46 36	55 24				845043
10731	AREQUIPA*BN, PERU	9007	12 10	7 07 31.05	2 46 18	-60 35				434023
10728	TOYO*BN, JAPAN	9005	12 10	6 21 41.00	22 04 00	82 18				434013
30326	HIGASHIMATSUYAMA, JAP	0210	12 10	10 27 49.00			0 00	74 24		845302
10727	TOYO*BN, JAPAN	9005	12 10	10 28 16.40	1 48 00	48 52				434013
10730	NAINI TAL*BN, INDIA	9006	12 10	14 24 04.42	1 38 00	69 10				434013
10732	SHIRAZ*BN, IRAN	9008	12 10	16 21 00.60	22 06 54	69 02				434013
10735	JUPITER*BN, FLA.	9010	12 11	0 09 05.94	17 59 00	79 08				434013
10736	JUPITER*BN, FLA.	9010	12 11	0 10 37.19	0 56 00	86 04				434013
10737	JUPITER*BN, FLA.	9010	12 11	0 13 18.31	4 35 00	63 33				434013
30327	MITAKA, JAPAN	0229	12 11	10 03 42.5			28 00	71 24		845303
10729	TOYO*BN, JAPAN	9005	12 11	10 03 56.90	1 47 00	48 40				434013
10747	NAINI TAL*BN, INDIA	9006	12 11	14 01 25.72	3 42 18	52 27				434013
10739	SHIRAZ*BN, IRAN	9008	12 11	15 59 18.80	2 52 06	56 46				434013
10721	WOOMERA*BN, AUSTR.	9003	12 11	16 34 44.61	5 25 00	-49 58				434023
10723	SAN FERNANDO*BN, SP.	9004	12 11	19 54 37.50	1 48 18	40 43				434013
30296	CHINA LAKE, CAL.	8586	12 12	1 42 35.4			14 44 24	46 02 24		845303

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10734	VILLA DOLORES'BN, ARG	9011	12 12	6 22 44.98	5 16 06	-60 00				434023
10733	SHIRAZ'BN, IRAN	9008	12 12	15 34 42.23	2 57 12	57 39				434013
10741	JUPITER'BN, FLA.	9010	12 12	23 18 59.03	16 27 54	75 00				434013
10742	JUPITER'BN, FLA.	9010	12 12	23 22 54.70	4 47 54	71 51				434013
10743	JUPITER'BN, FLA.	9010	12 12	23 27 42.32	4 53 12	34 27				434013
10738	OLIFANTSFNTN'BN, S.AF	9002	12 13	0 04 19.38	3 32 12	-67 09				434023
10740	AREQUIPA'BN, PERU	9007	12 13	5 54 05.09	2 44 12	-63 09				434023
10746	TOKYO'BN, JAPAN	9005	12 13	9 13 59.60	0 58 48	58 41	46 30	63 00		434013
30328	MITAKA, JAPAN	0229	12 13	9 14 56.1						845303
10757	TOKYO'BN, JAPAN	9005	12 13	11 17 13.70	23 01 18	15 39				434013
10748	SHIRAZ'BN, IRAN	9008	12 13	15 08 56.95	3 29 12	49 40				434013
10745	WOOMERA'BN, AUSTR.	9003	12 13	15 45 39.96	5 40 42	-47 11				434023
10744	OLIFANTSFNTN'BN, S.AF	9002	12 13	23 39 57.70	3 48 36	-69 39				434023
30297	DENVER, COLO.	8592	12 14	0 55 32.3			0 00	70 27 00		845303
10749	VILLA DOLORES'BN, ARG	9011	12 14	7 39 52.95	4 13 30	-53 33				434023
10758	TOKYO'BN, JAPAN	9005	12 14	8 49 20.20	0 57 18	60 40				434013
10759	TOKYO'BN, JAPAN	9005	12 14	10 53 55.40	23 45 18	10 56				434013
10756	SHIRAZ'BN, IRAN	9008	12 14	14 45 05.97	2 48 36	62 30				434013
10753	WOOMERA'BN, AUSTR.	9003	12 14	15 20 44.82	5 26 12	-41 55				434023
10752	WOOMERA'BN, AUSTR.	9003	12 14	17 27 02.44	3 52 12	-77 53				434023
10754	SAN FERNANDO'BN, SP.	9004	12 14	18 39 58.50	0 33 36	54 28				434013
10755	SAN FERNANDO'BN, SP.	9004	12 14	20 44 43.30	23 47 06	2 23				434013
10750	OLIFANTSFNTN'BN, S.AF	9002	12 14	23 12 57.53	2 43 18	-47 47				434023
30298	DENVER, COLO.	8592	12 15	0 30 43.9			0 00	68 15 00		845303
30344	ST. PETERSBURG, FLA.	8604	12 15	0 37 22	0 19 05	60 48				845022
30299	N. CANTON, OHIO	8559	12 15	0 38 16.3	0 54 25	7 12				845034
10751	OLIFANTSFNTN'BN, S.AF	9002	12 15	1 22 33.40	22 10 00	-85 05				434023
30300	CHINA LAKE, CAL.	0098	12 15	2 34 07.1			31 12 36	61 36 00		641303
10760	AREQUIPA'BN, PERU	9007	12 15	5 04 20.69	2 39 00	-59 27				434023
10761	VILLA DOLORES'BN, ARG	9011	12 15	5 08 09.06	4 46 00	-49 07				434023
10778	TOKYO'BN, JAPAN	9005	12 15	8 25 56.40	2 09 42	50 05				434013
10779	TOKYO'BN, JAPAN	9005	12 15	10 29 33.50	23 48 12	12 17				434013
10762	WOOMERA'BN, AUSTR.	9003	12 15	14 54 54.86	4 30 24	-27 58				434023
10765	SHIRAZ'BN, IRAN	9008	12 15	16 25 41.47	0 55 42	15 19				434013
10763	WOOMERA'BN, AUSTR.	9003	12 15	17 03 21.21	7 04 00	-85 00				434023
10764	SAN FERNANDO'BN, SP.	9004	12 15	18 15 44.70	0 56 24	53 33				434013
10766	CURACAO'BN, N.W.I.	9009	12 16	0 19 45.77	2 49 42	53 17				434013
30312	CHINA LAKE, CAL.	0098	12 16	2 09 23.0			29 53 24	77 16 48		641303
10767	ORGAN PASS'BN, N.M.	9001	12 16	2 12 16.51	0 16 30	34 32				434013
30309	EDINBURG, TEX.	0066	12 16	2 16 00.7			223.	86 15		845303
30310	EDINBURG, TEX.	0066	12 16	2 16 02.0			223	86 15		845303
30330	PUEBLA, MEX.	0900	12 16	2 16 11.5	1 55 54	45 55				845013
30311	EDINBURG, TEX.	0066	12 16	2 16 50.8			144	78 30		845303
30331	PUEBLA, MEX.	0900	12 16	2 17 42.4	0 53 30	55 32				845013
30313	CHINA LAKE, CAL.	8588	12 16	4 14 00.4			226 33 36	37 42 36		845303
10800	VILLA DOLORES'BN, ARG	9011	12 16	4 40 08.86	2 54 00	-16 15				434013
10801	VILLA DOLORES'BN, ARG	9011	12 16	4 48 53.98	1 14 36	-55 25				434023
10802	VILLA DOLORES'BN, ARG	9011	12 16	6 43 45.00	2 15 30	-31 24				434023
10803	VILLA DOLORES'BN, ARG	9011	12 16	6 53 45.58	14 22 00	-67 16				434023
30329	YATSUSHIRO, JAPAN	0272	12 16	10 01 43			0 00	62 06		845302
10782	NAINI TAL'BN, INDIA	9006	12 16	14 02 25.69	0 46 36	26 19				434013
10773	WOOMERA'BN, AUSTR.	9003	12 16	14 31 03.90	5 05 48	-32 06				434023
10786	SHIRAZ'BN, IRAN	9008	12 16	15 59 53.49	23 37 42	28 30				434013
10774	WOOMERA'BN, AUSTR.	9003	12 16	16 37 43.90	4 10 30	-78 08				434023
10775	WOOMERA'BN, AUSTR.	9003	12 16	18 44 20.26	14 45 00	-86 43				434023
30314	N. CANTON, OHIO	8559	12 16	23 48 10.7	0 04 55	19 17				845033
10790	JUPITER'BN, FLA.	9010	12 16	23 48 59.08	0 42 30	61 29				434013
10791	JUPITER'BN, FLA.	9010	12 16	23 52 42.14	8 11 30	26 51				434013
10792	JUPITER'BN, FLA.	9010	12 16	23 54 56.14	3 53 54	7 17				434013
10788	CURACAO'BN, N.W.I.	9009	12 16	23 56 01.95	3 47 12	-46 31				434013
10768	ORGAN PASS'BN, N.M.	9001	12 17	1 42 45.45	19 11 48	48 27				434013
30315	CHINA LAKE, CAL.	8588	12 17	1 44 39.4			28 33 00	75 12 00		845303
30317	DENVER, COLO.	8592	12 17	1 46 52.4			216 30	63 24		845303
10769	ORGAN PASS'BN, N.M.	9001	12 17	1 47 38.37	0 08 36	39 03				434013
30332	PUEBLA, MEX.	0900	12 17	1 51 01.8	1 43 48	44 05				845013
30333	PUEBLA, MEX.	0900	12 17	1 52 11.4	1 17	48 27				845013
10770	ORGAN PASS'BN, N.M.	9001	12 17	1 53 27.99	3 22 12	-8 00				434013
10793	JUPITER'BN, FLA.	9010	12 17	1 54 29.57	23 36 30	-2 55				434013
30316	CHINA LAKE, CAL.	8588	12 17	3 49 21.8			225 35 24	41 07 12		845303
10771	ORGAN PASS'BN, N.M.	9001	12 17	3 52 27.60	23 30 06	-13 36				434013
10805	MAUI'BN, HAWAII	9012	12 17	5 48 56.51	1 58 42	33 15				434013
10780	TOKYO'BN, JAPAN	9005	12 17	9 40 33.80	23 46 36	17 04				434013
10811	SHIRAZ'BN, IRAN	9008	12 17	15 36 08.25	0 31 12	24 10				434013
10783	NAINI TAL'BN, INDIA	9006	12 17	15 41 38.06	23 17 06	-14 11				434013
10907	WOOMERA'BN, AUSTR.	9003	12 17	18 20 25.51	14 56 54	-79 40				434023
10772	OLIFANTSFNTN'BN, S.AF	9002	12 17	21 59 34.98	2 55 18	-50 46				434023
10794	JUPITER'BN, FLA.	9010	12 17	23 21 19.45	19 26 54	69 26				434013
10795	JUPITER'BN, FLA.	9010	12 17	23 27 13.17	2 53 18	35 19				434013
10796	JUPITER'BN, FLA.	9010	12 17	23 32 55.95	4 17 06	-5 08				434013
30318	TERRE HAUTE, IND.	8127	12 17	23 46 08.8			207	90 00		845303
30334	ALAMOGORDO, N.M.	0102	12 18	1 22 59			0	81 36		845302
10797	JUPITER'BN, FLA.	9010	12 18	1 25 42.75	21 45 54	23 02				434013
30335	SAN ANTONIO, TEX.	0069	12 18	1 25 51.8	0 33 30	27 48				845012
10798	JUPITER'BN, FLA.	9010	12 18	1 30 07.36	23 37 24	-2 07				434013
10799	JUPITER'BN, FLA.	9010	12 18	1 32 20.85	0 49 48	-18 30				434013
10789	CURACAO'BN, N.W.I.	9009	12 18	1 34 59.18	23 48 18	2 15				434013
10804	VILLA DOLORES'BN, ARG	9011	12 18	1 51 55.37	6 57 54	-3 29				434013
30319	CHINA LAKE, CAL.	8588	12 18	3 24 43.1			224 35 24	44 49 12		845303
10806	MAUI'BN, HAWAII	9012	12 18	5 23 55.48	1 47 36	40 13				434013

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10807	MAUI'BN, HAWAII	9012	12 18	7 29 38.64	0 06 06	-23 40				434023
10776	WOOMERA'BN, AUSTR.	9003	12 18	13 41 48.95	5 04 48	-25 19				434023
10787	SHIRAZ'BN, IRAN	9008	12 18	15 11 17.49	0 11 30	31 15				434013
10777	SAN FERNANDO'BN, SP.	9004	12 18	19 05 33.70	22 43 18	18 43				434013
30320	DENVER, COLO.	8592	12 19	0 57 32.6			213 54	71 46		845303
30350	ALBUQUERQUE, N.M.	8534	12 19	0 57 47.6	23 38 24	40 15				845043
10808	ORGAN PASS'BN, N.M.	9001	12 19	0 59 18.39	1 01 30	35 56				434013
30321	DALLAS, TEX.	0129	12 19	1 00 48.33	23 47 24	22 12				845013
30322	FORT WORTH, TEX.	0139	12 19	1 01 19.4	0 40 12	18 15				845013
10812	JUPITER'BN, FLA.	9010	12 19	1 01 57.36	21 46 48	22 51				434013
10813	JUPITER'BN, FLA.	9010	12 19	1 07 29.09	0 39 18	-14 30				434013
10784	AREQUIPA'BN, PERU	9007	12 19	1 15 26.85	2 37 24	42 05				434013
10809	ORGAN PASS'BN, N.M.	9001	12 19	2 59 02.40	21 10 42	12 33				434013
30323	SACRAMENTO, CAL.	8517	12 19	3 01 30.8			160 00	36 20		841304
10810	ORGAN PASS'BN, N.M.	9001	12 19	3 05 33.00	0 27 48	-45 48				434023
10785	AREQUIPA'BN, PERU	9007	12 19	3 24 14.63	2 07 30	-42 30				434023
10814	VILLA DOLORES'BN, ARG	9011	12 19	5 29 58.37	1 38 24	-30 38				434023
10815	VILLA DOLORES'BN, ARG	9011	12 19	5 35 49.36	3 40 00	-78 04				434023
10816	VILLA DOLORES'BN, ARG	9011	12 19	7 43 29.32	14 12 00	-76 25				434023
10822	TOKYO'BN, JAPAN	9005	12 19	8 50 58.40	23 19 42	26 39				434013
30345	MITAKA, JAPAN	0229	12 19	8 51 05.5			217 12	78 36		845303
30346	HIGASHIMATSUYAMA, JAP	0210	12 19	8 51 38.4			180 00	73 54		845303
10823	TOKYO'BN, JAPAN	9005	12 19	10 34 44.40	21 36 54	-12 09				434013
10817	WOOMERA'BN, AUSTR.	9003	12 19	13 17 56.66	5 18 30	-27 25				434023
10819	SHIRAZ'BN, IRAN	9008	12 19	14 46 58.34	0 42 36	32 40				434013
10818	WOOMERA'BN, AUSTR.	9003	12 19	15 22 43.14	5 16 00	-68 30				434023
10827	JUPITER'BN, FLA.	9010	12 20	0 35 44.67	10 19 42	31 02				434013
30336	DALLAS, TEX.	0129	12 20	0 36 03.95	23 40 12	26 51				845013
10828	JUPITER'BN, FLA.	9010	12 20	0 40 49.76	3 24 24	4 19				434013
10829	JUPITER'BN, FLA.	9010	12 20	0 42 32.64	0 26 42	-9 33				434013
10820	URACAD'BN, N.M.I.	9009	12 20	0 47 38.01	0 43 06	-8 02				434013
10824	AREQUIPA'BN, PERU	9007	12 20	0 54 07.28	4 28 36	21 32				434013
10830	VILLA DOLORES'BN, ARG	9011	12 20	0 54 27.63	3 12 42	-1 30				434013
10831	VILLA DOLORES'BN, ARG	9011	12 20	1 00 09.66	5 10 00	13 52				434013
30342	WALNUT CREEK, CAL.	8535	12 20	2 33 59.6	22 36 30	9 00				845003
30343	WALNUT CREEK, CAL.	8535	12 20	2 35 05.8	23 46 30	1 36				845003
30337	CHINA LAKE, CAL.	8098	12 20	2 35 23.7			222 31 48	52 31 12		841303
10832	VILLA DOLORES'BN, ARG	9011	12 20	2 38 18.25	2 28 12	13 07				434013
10825	AREQUIPA'BN, PERU	9007	12 20	2 39 34.43	2 10 18	-40 34				434023
10833	VILLA DOLORES'BN, ARG	9011	12 20	3 08 07.39	8 02 00	-49 01				434023
10835	MAUI'BN, HAWAII	9012	12 20	4 34 34.81	1 34 24	50 40				434013
10834	VILLA DOLORES'BN, ARG	9011	12 20	5 09 40.30	2 26 36	-84 33				434023
10835	VILLA DOLORES'BN, ARG	9011	12 20	5 13 52.74	1 10 36	-73 47				434023
10836	VILLA DOLORES'BN, ARG	9011	12 20	5 14 41.84	2 24 24	-67 48				434023
10837	VILLA DOLORES'BN, ARG	9011	12 20	7 22 03.47	14 37 12	-49 05				434023
30347	HIGASHIMATSUYAMA, JAP	0210	12 20	8 26 42.2			160 00	80.00		845302
10821	SAN FERNANDO'BN, SP.	9004	12 20	10 20 13.00	22 16 05	-12 57				434013
10826	VILLA DOLORES'BN, ARG	9011	12 21	0 36 04.34	5 31 11	-12 11				434013
30338	AN JOSE, CAL.	8573	12 21	2 10 23.7			180	52 33 00		845304
30339	CHINA LAKE, CAL.	8098	12 21	2 10 44.4			221 27 36	57 00 30		845303
30340	SACRAMENTO, CAL.	8517	12 21	2 11 17.1			180 00	48 28		841304
10848	AREQUIPA'BN, PERU	9007	12 21	2 34 44.26	2 07 30	-36 30				434023
10839	VILLA DOLORES'BN, ARG	9011	12 21	2 36 08.89	2 13 18	1 46				434013
10840	VILLA DOLORES'BN, ARG	9011	12 21	4 05 11.15	5 16 24	-35 56				434023
10841	VILLA DOLORES'BN, ARG	9011	12 21	4 42 47.13	1 37 54	-44 45				434023
10842	VILLA DOLORES'BN, ARG	9011	12 21	4 47 57.70	9 25 06	-80 48				434023
10847	MAUI'BN, HAWAII	9012	12 21	6 13 51.25	20 34 54	-4 32				434013
10843	VILLA DOLORES'BN, ARG	9011	12 21	6 48 26.32	2 03 24	-56 35				434023
10845	TOKYO'BN, JAPAN	9005	12 21	10 04 46.00	21 52 24	-5 07				434013
10849	NAINI TAL'BN, INDIA	9006	12 21	14 24 33.56	23 30 06	-19 14				434013
10846	SAN FERNANDO'BN, SP.	9004	12 21	19 35 13.70	21 49 48	-8 48				434013
10854	MAUI'BN, HAWAII	9012	12 22	5 31 30.12	23 59 00	-19 14				434013
10850	WOOMERA'BN, AUSTR.	9003	12 22	14 08 30.06	5 14 00	-64 23				434023
10865	SHIRAZ'BN, IRAN	9008	12 22	15 36 59.69	22 41 54	-8 08				434013
10851	WOOMERA'BN, AUSTR.	9003	12 22	16 15 45.35	12 45 00	-88 38				434023
10852	WOOMERA'BN, AUSTR.	9003	12 22	18 23 07.16	13 21 30	-65 25				434023
10853	SAN FERNANDO'BN, SP.	9004	12 22	19 30 11.50	21 45 24	-5 05				434013
10855	OLIFANTSFENT'BN, S.AF	9002	12 22	19 55 13.72	2 24 00	-29 57				434023
10867	JUPITER'BN, FLA.	9010	12 22	23 25 53.69	22 25 54	24 25				434013
30341	W. PALM BEACH, FLA.	0016	12 22	23 27 11			233	74 30		845302
10868	JUPITER'BN, FLA.	9010	12 22	23 27 49.92	23 51 36	7 22				434013
10856	OLIFANTSFENT'BN, S.AF	9002	12 23	0 12 31.00	14 58 00	-71 54				434023
10860	MAUI'BN, HAWAII	9012	12 23	5 27 34.15	0 04 12	-18 14				434013
10864	NAINI TAL'BN, INDIA	9006	12 23	13 13 29.26	22 06 42	1 06				434013
10851	WOOMERA'BN, AUSTR.	9003	12 23	13 43 47.73	5 14 54	-62 42				434023
10856	SHIRAZ'BN, IRAN	9008	12 23	15 11 43.91	21 52 42	-1 25				434013
10859	VILLA DOLORES'BN, ARG	9011	12 24	3 30 08.03	1 46 12	-55 12				434023
10870	VILLA DOLORES'BN, ARG	9011	12 24	3 37 37.42	11 45 06	-54 48				434023
10882	MAUI'BN, HAWAII	9012	12 24	4 59 29.77	22 19 36	9 56				434013
10872	VILLA DOLORES'BN, ARG	9011	12 24	5 36 21.30	1 30 00	-72 15				434023
10873	VILLA DOLORES'BN, ARG	9011	12 24	5 42 23.63	13 33 48	-56 36				434023
10874	VILLA DOLORES'BN, ARG	9011	12 24	7 43 05.92	6 54 00	-76 12				434023
10875	VILLA DOLORES'BN, ARG	9011	12 24	7 48 26.92	13 44 00	-35 03				434023
10892	SHIRAZ'BN, IRAN	9008	12 24	14 47 35.53	21 58 54	-2 15				434013
10863	SAN FERNANDO'BN, SP.	9004	12 25	18 17 16.30	21 13 54	-4 48				434013
10876	VILLA DOLORES'BN, ARG	9011	12 26	0 35 29.54	3 20 06	-2 15				434013
10877	VILLA DOLORES'BN, ARG	9011	12 26	0 41 46.13	7 22 18	-32 19				434023

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10878	VILLA DOLORES*BN,ARG	9011	12 26	2 38 45.64	0 47 42	-34 28				434023
10879	VILLA DOLORES*BN,ARG	9011	12 26	2 43 54.40	6 25 00	-73 40				434023
10881	VILLA DOLORES*BN,ARG	9011	12 26	4 49 31.78	11 56 00	-84 33				434023
10880	VILLA DOLORES*BN,ARG	9011	12 26	6 56 18.49	12 16 24	-85 05				434023
10862	WOOMERA*BN, AUSTR.	9003	12 26	12 31 46.07	6 19 00	-64 30				434023
10890	VILLA DOLORES*BN,ARG	9011	12 27	6 29 39.20	8 39 00	-81 00				434023
10884	WOOMERA*BN, AUSTR.	9003	12 27	16 18 37.89	12 28 30	-76 05				434023
10835	CURACAO*BN, N.W.I.	9009	12 27	23 34 30.02	22 06 48	-25 12				434023
10887	WOOMERA*BN, AUSTR.	9003	12 28	11 39 25.13	4 40 42	-42 56				434023
10888	WOOMERA*BN, AUSTR.	9003	12 28	13 45 57.73	1 02 00	-78 30				434023
10889	WOOMERA*BN, AUSTR.	9003	12 28	15 53 37.78	12 15 00	-78 35				434023
10894	WOOMERA*BN, AUSTR.	9003	12 29	11 14 45.14	2 20 30	-39 55				434023
10895	WOOMERA*BN, AUSTR.	9003	12 29	13 20 58.61	0 47 30	-76 00				434023
10896	WOOMERA*BN, AUSTR.	9003	12 29	15 28 28.83	11 53 00	-82 17				434023
10893	MAUI*BN, HAWAII	9012	12 29	15 58 43.36	14 55 42	-22 36				434013
10900	VILLA DOLORES*BN,ARG	9011	12 30	0 57 52.03	23 38 54	-10 03				434013
10901	VILLA DOLORES*BN,ARG	9011	12 30	1 08 05.30	8 43 24	-55 17				434023
10902	VILLA DOLORES*BN,ARG	9011	12 30	7 19 17.18	6 08 00	-53 50				434023
10903	VILLA DOLORES*BN,ARG	9011	12 30	7 28 42.51	12 52 48	-9 40				434013
10898	CURACAO*BN, N.W.I.	9009	12 30	9 33 53.96	14 34 48	-50 43				434023
10899	CURACAO*BN, N.W.I.	9009	12 30	9 37 10.19	14 11 30	-28 08				434023
10897	WOOMERA*BN, AUSTR.	9003	12 30	10 50 09.51	2 23 12	-37 14				434023
10904	VILLA DOLORES*BN,ARG	9011	12 31	0 40 47.06	5 50 06	-60 42				434023
50025	LAREDO*RADAR, TEX.	4012	12 31	13 19 49.5			117 48 00	67 54 00	1610	895307

NOTICE

This series of Special Reports was instituted under the supervision of Dr. F. L. Whipple, Director of the Astrophysical Observatory of the Smithsonian Institution, shortly after the launching of the first artificial earth satellite on October 4, 1957. Contributions come from the Staff of the Observatory. First issued to ensure the immediate dissemination of data for satellite tracking, the Reports have continued to provide a rapid distribution of catalogues of satellite observations, orbital information, and preliminary results of data analyses prior to formal publication in the appropriate journals.

Edited and produced under the supervision of Mrs. L. G. Boyd and Mr. E. N. Hayes, the Reports are indexed by the Science and Technology Division of the Library of Congress, and are regularly distributed to all institutions participating in the U. S. space research program and to individual scientists who request them from the Administrative Officer, Technical Information, Smithsonian Astrophysical Observatory, Cambridge 38, Massachusetts.