

6	27364	92836	89428	61268	71982	36198	32764	31277	
86	48932	78987	32123	49817	26346	81287	65491	87364	8
721	75654	55656	12737	72727	72727	91918	63473	67867	7
723	87629	37677	32612	53498	71296	28756	18276	98716	87
269	76329	74698	76857	98670	27601	56701	57601	73648	1
91	87364	87265	96710	27630	12673	84769	28743	98127	7
8	63298	75698	27465	87326	49876	28376	81273	98615	
7	87432	74328	78674	29867	32867	67867	86786	43286	87
7	68768	68763	34234	34238	68768	62342	48273	48768	2
26	98432	32432	86743	43286	43286	43286	43286	43286	40
243	86743	86743	39867	32867	86743	43286	43286	43243	86
11	86743	86743	86743	86743	86743	86743	86743	86743	2
99	98798	98754	98754	98754	98754	29867	67543	67986	87
6	87698	69876	87698	69876	87612	12341	34867	86798	67
7	43298	65656	56756	56123	32143	14321	32143	14321	37
7	58765	58765	76587	58765	76587	58765	76587	58756	8

Numbers & Oddities

a.k.a. The Spooks Newsletter

Edition #242, November 2017

Editor: Ary Boender email: udxf@udxf.nl
 Numbers & Oddities <http://www.numbersoddities.nl>

"Numbers & Oddities" a.k.a. the "Spooks Newsletter" is a newsletter for the members of the Utility DXers Forum (UDXF), the Spooks mailing list, HF Underground and everyone else who is interested in Numbers Stations.

"Numbers & Oddities" covers the fascinating world of Numbers Stations and other odd radio signals on shortwave.



FOREWORD

James Nicholas "Nick" Rumble, Sr., age 57, of Kannapolis passed away Saturday, October 7, 2017 at his residence.

Nick worked as a radio announcer for WGTL, Cannon Mills and Floor Sheen. He enjoyed ham radio, astronomy, electronics and making pizza. Nick has been one of our Team Logs editors for many years.

Rest in peace, my friend.

My condolences go out to Nick's family and friends, also on behalf of all of us at UDXF.

Designators:

F03a: 100 Bd / 200 Hz shift

F03b: 200 Bd / 400 Hz shift

F03c: 400 Bd / 960 Hz shift

The above designators replace F03.

The BPSK and QPSK broadcasts do not have a separate designator yet and are listed under POL.

BPSK-63 ACF=608

QPSK-63 ACF=304

QPSK-125 ACF=448

The logs database has been updated accordingly.

Software news:

DXtreme Monitor Log 11™ has been released. More info can be found in the appendix.

VOICE STATIONS

E06

4760 kHz, 03-11, 2130 UTC

472 149 52

12265 10965 47839 38654 84677 93453 72217 84393 04673 97564

01824 75643 84221 95647 92112 94543 76577 43435 47322 84232

95674 87344 57438 45763 49325 57438 92190 96785 21244 05674

01765 76354 83645 21234 97564 82133 07564 83234 75312 71211

05674 65374 67321 94884 23483 82521 41212 57333 85331 53234

05124 95732

149 52 00000

18285 kHz, 02-11, 0600 UTC / 20140 kHz, 02-11, 0700 UTC

507 482 61

26336 92594 56671 44444 37275 36092 86434 63113 14736 55894

11515 36740 13334 48005 01562 03857 80500 77584 97380 18568

12116 25861 89273 28155 98473 88711 53675 75028 27765 62839

27784 88610 39277 80481 26865 90609 43470 78593 33915 62098

51155 13445 16381 45853 78925 56554 49614 82383 23055 32923

51757 03091 19039 87479 59732 28991 28964 90688 01040 48443

23898

482 61 00000

18285 kHz, 16-11/17-11, 0600 UTC / 20140 kHz, 16-11/17-11, 0700 UTC

507 193 64
75566 76333 93437 44444 19537 03957 37892 77806 08867 48082
21194 84159 72161 33843 54531 64047 90244 80661 86560 93442
81429 47365 22711 31015 71653 01607 66074 91317 04166 87052
47060 61821 68453 86749 34010 24740 53087 06131 41956 69565
52190 24084 81713 07276 80197 85519 16486 22135 74613 33888
18187 22027 91437 07071 40652 73265 22955 45088 51929 30812
92582 83063 92842 99842
193 64 00000

4836 kHz, 16-11, 1927 UTC

Windows sounds

4836 kHz, 16-11, 1930 UTC

321 149 52
12265 10965 47839 38654 84677 93453 72217 84393 04673 97564
01824 75643 84221 95647 92112 94543 76577 43435 47322 84232
95674 87344 57438 45763 49325 57438 92190 96785 21244 05674
01765 76354 83645 21234 97564 82133 07564 83234 75312 71211
05674 65374 67321 94884 23483 82521 41212 57333 85331 53234
05124 95732
149 52 00000

4760 kHz, 17-11, 2130 UTC

472 149 52
12265 10965 47839 38654 84677 93453 72217 84393 04673 97564
01824 75643 84221 95647 92112 94543 76577 43435 47322 84232
95674 87344 57438 45763 49325 57438 92190 96785 21244 05674
01765 76354 83645 21234 97564 82133 07564 83234 75312 71211
05674 65374 67321 94884 23483 82521 41212 57333 85331 53234
05124 95732
149 52 00000
Windows shut down sound

E07

8153/6853/5453 kHz, 01-11/08-11, 1800/1820/1840 UTC

184 184 184 1 794 83 794 83
43680 68320 42619 63431 10631 11923 62806 89044 49676 86008
27592 44651 01015 19299 83915 57531 75891 33300 89402 75055
75974 22608 73726 50241 12794 15182 78385 91327 61626 65348
87600 95656 94904 07018 92991 06225 72582 84742 13820 54048
13885 97914 35268 32251 43440 14018 70556 65577 87612 55896
55001 87662 12023 72573 39399 03271 22522 75974 11326 02304
76125 24156 63672 67796 83307 68640 19233 30130 90351 31829
01169 75492 14761 08607 86030 90784 87550 25974 65936 25286
63851 41080 73526 000 000

10112/11112/12114 kHz, 04-11/05-11/11-11/12-11/18-11/19-11/25-11/26-11, 0700/0720/0740 UTC

111 111 111 1 942 128 942 128
80908 90911 03724 82410 95362 28568 69183 02115 23839 03449
69122 90013 23279 42929 34863 66910 51348 03395 09465 36800
05086 77370 39611 06841 02519 98586 53923 67736 94937 19289
70543 82917 64142 88514 08902 51114 36200 06388 15120 14138
49521 55108 84151 08742 11004 47666 92652 73358 22883 96228
64832 62194 15898 50757 62900 77019 15797 99172 20630 84614
86601 31366 55006 94555 23560 26173 22694 84693 98608 67562
77059 57601 47815 10221 31141 26322 67249 27599 91849 17644
47310 85411 96953 02537 78843 34565 58913 26017 51965 86276
24284 45142 50599 12106 94407 93483 65797 53026 55237 44973
09094 13935 18563 27369 52790 30927 45983 07649 91963 41331
55382 51022 01295 58539 77614 24420 42046 56990 31888 15684
60062 03789 21351 60117 80265 52243 68505 40182 000 000

14884/13384/11584 kHz, 07-11/10-11, 1100/1120/1140 UTC

835 835 835 1 4871 71 4871 71
71938 31908 92275 46745 83494 30647 24867 76937 95623 92838
20441 23351 30493 49829 07134 54709 17120 50602 20227 39982
38541 48216 06553 30499 67335 99869 45166 94970 56907 32387
92009 28744 68272 31784 91963 99990 40700 02698 74135 65546
15423 41945 12603 99906 08971 15706 06052 54663 60887 54523
40203 72237 00068 07595 34834 59466 52924 87304 94812 95615
75744 56201 84821 64562 43339 88503 45847 14083 27044 61061
51191 000 000

14884/13384/11584 kHz, 14-11/17-11, 1100/1120/1140 UTC

835 835 835 1 6685 85 6685 85
43619 37759 91212 88422 81723 83479 25405 21587 48817 44327
00328 43534 50220 43972 78542 37274 43603 62297 87383 52898
13201 52125 19497 61716 04715 55974 88577 94164 12921 88451
83672 74578 15059 31296 46939 35175 17517 86871 81574 23839
84088 70672 18253 83123 89267 35025 69819 03669 76712 87036
14525 64995 34935 54112 52346 44577 54562 45884 01061 49196
91826 23518 57679 48068 57273 91833 87884 40157 21594 45395
44519 10485 85950 58714 71248 96205 71354 51968 04369 08892
12759 68590 64888 28300 8369 000 000

8153/6853/5453 kHz, 15-11/19-11, 1800/1820/1840 UTC

Note: on 15-11, 1800 UTC, the transmission stopped during group 59 and the transmitter was switched off.

184 184 184 1 437 91 437 91
76228 12544 32783 97635 84867 08329 82411 65965 57006 34806
34647 58893 46049 14695 58743 31683 72641 04305 06619 65601
94072 98882 62286 04005 33106 36624 98283 83201 69526 34270
55133 59275 74713 13764 17074 04006 79931 08312 44340 70045
94893 50480 46845 53184 22665 65643 57669 39947 05241 48871
16323 93473 53931 32945 79699 81518 68346 54204 90688 38173
74522 73810 41867 72636 02394 33442 83122 64225 92672 43576
85085 99261 59065 72010 49468 05089 19533 07529 07114 15064
72577 95338 03318 20545 67421 54909 78001 83868 97630 52592
59342 000 000

6777/5449/4483 kHz, 16-11, 2110/2130/2150 UTC

744 744 744 1 609 60 609 60
15674 87968 95687 91159 80542 96069 56725 13943 95846 15202
84473 87243 04593 08436 07521 65652 90906 49077 98419 66663
68261 30917 23087 91315 01014 62123 60257 04712 88708 17749
26325 86824 98903 81910 18507 12272 84310 68789 85311 82943
20993 88667 15024 31977 34518 72027 05324 19851 48863 06572
72455 21076 49615 63166 30353 69399 71270 72112 46932 63417
000 000

14884/13384/11584 kHz, 28-11, 1100/1120/1140 UTC

835 835 835 1 8175 77 8175 77
58096 22985 69038 34583 36508 56202 61680 60585 32930 70920
76615 42590 40062 04687 40644 83372 62781 74992 97222 97638
43588 91244 26162 91991 15772 97376 05062 05381 32730 79034
78639 21848 64774 67018 78336 44521 21565 59153 14378 91907
39535 75973 92236 58148 11942 27337 44399 84409 37977 88956
05219 81738 57219 93722 65258 06530 67054 46222 40807 73358
41767 47936 59507 38138 33919 87857 76371 55661 17026 14367
68967 52069 42224 23191 50558 97910 55591 000 000

6777/5449/4483 kHz, 30-11, 2110/2130/2150 UTC.

Extremely poor audio like most of the AM transmissions.

744 744 744 1 136 58 136 58
32710 51534 33173 62202 65531 58625 06390 24843 65430 52694
02419 02047 91451 80836 02590 79069 55176 46218 74741 35679
45924 05292 43702 91070 59597 11125 80487 49640 44663 79559
00807 44852 09229 83006 64792 31313 38664 06523 90082 46978
68136 47192 18404 96847 06989 29896 26236 06909 38294 09614
11242 84768 91018 58487 30134 15355 63878 94381 000 000

E07a

5877/5277/4577 kHz, 01-11, 2100/2120/2140 UTC

825 825 825 1 19985 810 47 810 47
26559 38861 55527 03537 34240 97495 62352 57571 70491 09585
61542 99247 16814 38008 01449 76625 84736 45110 40887 73274
45025 71954 39512 83923 32340 79110 46645 31290 29729 38725
47016 40080 80906 57582 63721 01563 72879 04643 24985 45318
91990 17751 57102 31056 74087 42569 29906 000 000

5111/5811/6911 kHz, 02-11, 0530/0550/0610 UTC

189 189 189 1 19985 810 47 810 47
26559 38861 55527 03537 34240 97495 62352 57571 70491 09585
61542 99247 16814 38008 01449 76625 84736 45110 40887 73274
45025 71954 39512 83923 32340 79110 46645 31290 29729 38725
47016 40080 80906 57582 63721 01563 72879 04643 24985 45318
91990 17751 57102 31056 74087 42569 29906 000 000

E11a

9443 kHz, 01-11, 1705 UTC

392/34 Attention
89785 21365 25785 69792 22892 64302 12553 78802 56637 49032
80930 51288 75216 63214 68820 45048 33047 89606 63756 15918
95259 77586 85917 16563 96530 79536 67113 07960 66799 51671
21306 87640 57677 09901
Attention, rpt msg, out

9200 kHz, 06-11/10-11, 0600 UTC

185/21 Attention
05373 15186 86481 76760 65205 07766 98846 38870 01266 54403
12010 06000 46977 19618 33430 18670 51396 71818 63363 90125
55717
Attention, rpt msg, out

9130 kHz, 07-11/10-11, 0710 UTC

639/34 Attention
50968 40273 68209 32599 74767 21296 83613 45896 79490 59302
86762 89437 11747 73374 56708 58710 78313 68552 49650 53106
83386 43746 59265 86691 34539 37907 64285 89609 27747 00397
97289 21776 94913 14762
Attention, rrpt msg, out

8800 kHz, 07-11/10-11, 1000 UTC

300/25 Attention
33797 12970 73929 88157 19443 96792 24390 99880 08689 46412
26681 41394 23747 49243 10795 96361 03280 47910 51282 36714
35675 04060 42415 59539 90689
Attention, rpt msg, out

8680 kHz, 09-11/11-11, 1300 UTC

589/38 Attention
53397 60191 52074 82414 00707 25354 19459 14406 07610 62424
18521 76157 89272 62764 70713 45878 01908 04256 64611 50768
19243 88313 25754 82395 16565 43261 75836 41937 19667 42799
72342 81594 29244 11532 12914 85211 74935 92993
Attention, rpt msg, out

4505 kHz, 11-11/12-11, 0710 UTC

495/38 Attention
52268 61567 07045 26113 51038 03362 02046 51061 73876 92781
46563 56727 68742 22948 58142 25169 91576 53824 02357 03606
10446 17334 36337 64125 44991 87336 61565 75482 19153 84232
57430 80606 09746 61240 36350 20183 83535 44363
Attention, rpt msg, out

7377 kHz, 11-11/12-11, 0805 UTC

316/38 Attention
29573 37931 39237 22028 63735 80607 33353 25234 88131 75684
53201 45796 27274 19130 54893 32703 22499 01539 46263 79425
58970 37502 44599 21195 89133 55725 37137 16158 01466 86979
96896 01389 85092 38199 57146 96365 23472 37604
Attention, rpt msg, out

4909 kHz, 13-11/16-11, 0450 UTC

416/31 Attention
89318 19173 97045 08140 76276 21415 04596 59341 11946 07220
17200 40532 68315 29901 81374 38865 85341 20699 72912 19434
65317 42047 79256 81966 50028 40694 43325 79550 26336 17735
18052
Attention, rpt msg, out

11450 kHz, 13-11/15-11, 0640 UTC

944/36 Attention

02552 02779 52230 69707 12919 92769 79431 83773 96339 16898
28456 17966 03455 65281 41305 82219 88231 90347 20551 91329
40635 87851 87984 33360 04766 77783 24844 35581 28251 51091
16405 77291 32184 93447 77296 60007

Attention, rpt msg, out

9446 kHz, 13-11/15-11, 0900 UTC

534/40 Attention

82848 35084 57886 68884 47659 02120 14680 61189 66688 01290
37796 23708 94624 24127 01888 71903 79028 80524 69930 81825
86248 77437 40954 63148 79166 26574 27190 78840 18723 66932
80763 49548 82345 70097 09321 21390 28862 57120 50957 41321

Attention, rpt msg, out

11104 kHz, 14-11/16-11, 0845 UTC

155/21 Attention

53488 87236 29595 33796 64563 19464 21861 16475 48271 41147
01189 33967 12135 17015 00623 58775 47080 69426 72109 62141
52883

Attention, rpt msg, out

5231 kHz, 14-11, 0948 UTC, i.p.

121/20 Attention

52458 97456 20125 48562 10125 47885 01256 98701 25478 56201
23698 40236 58740 21458 96021 45898 74520 12369 85401 25485

Attention, rpt msg, out

4505 kHz, 14-11/19-11, 1605 UTC

236/31 Attention

74117 03251 72053 04032 80031 58029 37442 80157 51615 95240
89621 35624 71495 38269 62214 71645 59569 20572 79666 88022
95767 98441 29387 92299 02793 63527 60161 25572 96542 94175
01342

Attention, rpt msg, out

8180 kHz, 15-11/16-11, 0930 UTC

276/36 Attention

48178 64335 90625 46714 59612 65123 08111 54135 74166 94109
56299 61981 40360 70424 59597 21024 03459 47783 62953 21498
55927 09395 53986 00518 73306 76307 98287 06767 25806 87432
63445 85403 48398 50160 78392 22397

Attention, rpt msg, out

10448 kHz, 15-11/19-11, 1625 UTC

975/34 Attention

94072 25297 32297 40237 08415 52406 21632 24978 49532 51622
01156 06355 77477 58889 80555 21727 60996 39153 29034 89179
87804 69975 15246 71148 00491 13231 99838 48695 40820 68798
53999 52144 45652 46742

Attention, rpt msg, out

10213 kHz, 20-11, 0745 UTC

267/31 Attention

94581 55155 82984 33668 38680 55637 99588 66606 79560 87193
29843 72835 39142 32028 01150 90929 95429 70382 29783 74686
48117 48971 70288 65866 94102 85954 75525 19895 41699 92462
42833

Attention, rpt msg, out

7984 kHz, 20-11/23-11, 0820 UTC

435/37 Attention

10095 89543 52585 48513 23563 89598 88503 49771 78819 83035
13298 47491 26410 04508 79037 50788 33643 67281 53156 65644
79057 17520 92857 79239 21396 36506 06169 41559 41166 29799
54713 43703 62051 77154 46628 03633 91890

Attention, rpt msg, out

14666 kHz, 21-11/25-11, 1345 UTC

918/40 Attention

56104 39613 56915 20098 07167 63187 83758 75515 85915 77823
73245 15153 82377 83218 22813 25480 64406 77781 03224 89879
10961 54944 15441 25586 80938 18558 51609 71094 05143 88467
17204 28482 88599 07811 85729 16194 12240 12013 43986 56448

Attention, rpt msg, out

17378 kHz, 22-11/24-11, 0745 UTC

346/32 Attention

00360 90707 19757 66439 51608 09514 56605 02290 47687 18441
15400 57766 73452 05787 89005 14405 05254 13141 28693 94776
94840 75515 63379 14134 64461 26196 20850 69782 54154 60306
71528 55646

Attention, rpt msg, out

12202 kHz, 22-11, 0820 UTC

134/31 Attention

13170 50561 88859 11240 83734 82122 37138 98871 97895 88725
71759 11696 44098 07466 28351 35543 71819 15734 40696 68480
11939 23321 48250 45366 47020 71070 57313 26975 73541 16463
90258

Attention, rpt msg, out

8545 kHz, 22-11/25-11, 1730 UTC

406/31 Attention

78828 46886 15968 58102 90512 47001 52511 61106 58399 86123
95790 71667 85181 41233 57843 19909 68805 34423 89546 86030
48029 74832 49288 48809 23267 44526 97216 25006 40726 10446
12524

Attention, rpt msg, out

5409 kHz, 23-11, 1530 UTC

267/31 Attention

94581 55155 82984 33668 38680 55637 99588 66606 79560 87193
29843 72835 39142 32028 01150 90929 95429 70382 29783 74686
48117 48971 70288 65866 94102 85954 75525 19895 41699 92462
42833

Attention, rpt msg, out

7840 kHz, 28-11/30-11, 0645 UTC

512/31 Attention

83806 14113 04036 69090 99917 82492 23917 07990 33742 07600
26149 35127 38541 03580 27255 76325 91897 32085 20585 43921
38848 23388 80655 24178 56046 94464 18901 27846 32902 22743
64371

Attention, rpt msg, out

7317 kHz, 28-11/29-11, 1205 UTC

462/33 Attention

94035 56822 78103 07267 67335 08972 90998 23812 29142 35991
17056 17100 84744 51254 09676 55129 79544 65797 98765 57689
99928 46311 24243 00065 69242 15049 40598 71855 91555 91377
86539 26432 64339

Attention, rpt msg, out

5779 kHz, 30-11, 0315 UTC

259/34 Attention

57080 12996 77845 92747 37630 46055 13492 40618 16200 91465
26580 28050 14005 98075 53016 12641 58955 02490 50542 72087
11993 07478 40311 37453 96327 12833 26222 27344 23419 64446
57154 09733 05825 43568

Attention, rpt msg, out

E17z

11170/9820 kHz, 02-11/09-11, 0800/0810 UTC

674 819 5 36184 36194 37650 43773 46793 819 5 00000

10240 kHz, 07-11, 1534 UTC, test i.p.

809 809 13 13 274 274 274

809 809 13 13 98539

839 839 13 13 274 ...

11170/9820 kHz, 16-11/23-11, 0800/0810 UTC

674 913 5 89056 74831 90553 16811 29043 913 5 00000

11170/9820 kHz, 30-11, 0800/0810 UTC

674 674 674 00000

E25

6140 kHz, 06-11, 0815 UTC

014 014 ...

Message, message, message

8255 1290 5507 2161 7915 2666 2375 1290 5080

Rebeat, rebat

8255 1290 5507 2161 7915 2666 2375 1290 5080

End of message. End of transmission

6140 kHz, 08-11, 1152 UTC

Carrier up with windows sounds, then Enta Omri. Music played for around 15 minutes until 1207 UTC, ends abruptly.

Recording: <http://priyom.org/media/186840/e25-6140am-20171108-1152z-byqsr711.ogg>

6140 kHz, 08-11, 1217 UTC

Carrier up with Arabic music, then Quran reciting. Ends abruptly around 1217 UTC.

Recording: <http://priyom.org/media/186843/e25-6140am-20171108-1211z-byqsr711.ogg>

6140 kHz, 08-11, 1227 UTC

Carrier up with Enta Omri. Around 7 minutes later, music ends and station starts calling 012 012 012 message, message, message

then transmitter off. Recording: <http://priyom.org/media/186846/e25-6140am-20171108-1227z-byqsr711.ogg>

Note from qsr711:

Seems like E25 is back to using AM mode and its usual female voice. However, the 012 transmission seems totally accidental. In fact, ID 012 follows a more defined schedule than other IDs, you can see its behaviour in the dedicated priyom.org page

<http://priyom.org/number-stations/english/E25/012>

So, how about 012? Well, I think there's a high chance it will transmit tomorrow, judging by the pattern observed (seems like it transmits on the 1st thursday of november every year, and something similar happens in July). The transmission time is supposed to be 8:00 for 012, but you know how E25 is, so it may vary a bit. 012 sometimes repeats the next day as well.

6140 kHz, 15-11, 0817 UTC

Male operator. Live.
169 169 169 ...
Message, message, message
6040 6120 4564 4072 8805 0956 8274
Rebeat, rebat, rebat
6040 6120 45

6140 kHz, 15-11, 0847 UTC

Male operator. Live.
169 169 169 ...
Message, message, message
6040 6120 4564 4072 8805 0956 8274
Rebeat, rebat, rebat
6040 6120 4564 4072 8805 0956 8274
End of message. End of transmission

6140 kHz, 16-11, 0815 UTC

Female operator. Live.
169 169 169 ...
Message, message, message
6040 6120 4564 4072 8805 0956 8274
Rebeat, rebat, rebat
604- ---- ---4 4072 8805 0956 8274
End of message. End of transmission

NOTES: Note it is same message as yesterday.
First raw of numbers, operator made a mistake saying "0946" when it should be "0956".
Previously, there were 2 attempts with cuts. One at 0811z by a male voice. Second one at 0813z by female voice.

6140 kHz, 16-11, 0846 UTC. Same message as 0815 UTC, now complete and without errors

Male operator. Live.
169 169 169 ...
Message, message, message
6040 6120 4564 4072 8805 0956 8274
Rebeat, rebat, rebat
6040 6120 4564 4072 8805 0956 8274
End of message. End of transmission

G06

4519 kHz, 09-11, 1830 UTC

271 149 52
12265 10965 47839 38654 84677 93453 72217 84393 04673 97564
01824 75643 84221 95647 92112 94543 76577 43435 47322 84232
95674 87344 57438 45763 49325 57438 92190 96785 21244 05674
01765 76354 83645 21234 97564 82133 07564 83234 75312 71211
05674 65374 67321 94884 23483 82521 41212 57333 85331 53234
05124 95732
149 52 00000
Windows shut down sound

4792 kHz, 10-11, 1920 UTC.

Windows sound

4792 kHz, 10-11, 1930 UTC

436 847 58
67391 24518 97497 42873 48732 35875 94589 43543 93269 73231
39317 43073 24893 21956 58946 58943 68951 29618 93648 91693
64134 86596 42384 84274 56741 38549 74375 13248 24389 34923
43241 39432 49321 89589 32385 48434 91893 24832 39532 65764
32893 76738 78346 57263 75329 65287 41291 31284 82564 37539
38578 43969 35434 54363 25487 21645 72848 69529
847 58 00000

4519 kHz, 23-11, 1829 UTC

271 289 54
12345 89657 45632 75684 95463 84567 06854 84657 91745 19567
85674 82821 85674 21972 91297 27890 84672 74284 73581 83861
74581 91248 17671 41812 97128 90486 43716 47534 85494 24353
91486 17410 97272 49191 04171 42468 12893 89758 43673 48727
51534 87281 87462 64874 74728 87284 84926 82941 81749 92471
67578 64618 84021 72492
289 54 00000

4792 kHz, 24-11, 1930 UTC

436 134 57
69834 91020 28974 71856 74832 89648 73282 64825 48142 73848
36457 38491 82713 43143 65689 28756 42351 73145 32424 67857
83273 56425 34245 23246 76879 87435 28184 61547 93671 75364
72825 34732 53426 47589 73647 58326 15264 37485 63542 43557
64536 47586 76453 45684 65783 74859 82736 47382 74651 27631
72361 74827 36452 35263 72813 26743 84732
134 57 00000

S06

13397 kHz, 07-11/08-11, 1500 UTC

9194 kHz, 07-11/08-11, 1600 UTC

387 945 61
11280 65427 80071 18062 83066 64327 81713 98611 30610 41541
42897 68281 38633 84619 96076 37854 78609 13713 30843 74503
57472 93818 98925 45533 30074 65884 13422 33312 67618 57681
46969 44845 99232 60420 58515 64393 68865 82008 03395 22617
74714 12916 06399 80649 83351 65574 02512 52548 35751 73248
75017 14572 87393 59312 45653 74699 49644 12884 96503 00854
24580
945 61 00000

19875 kHz, 16-11/17-11, 0830 UTC

16067 kHz, 16-11/17-11, 0930 UTC

842 356 49
75311 09897 37060 41637 21250 92509 87663 47113 34636 08131
02486 71097 35474 74629 35096 77609 99699 25857 00633 46713
24481 06911 95841 93454 16665 85109 97723 79869 46558 87635
95488 93489 34219 01775 35498 90795 60460 98685 83875 29048
19777 66648 36491 34930 57269 64720 30987 83452 56949
356 49 00000

S06s

471 had some problems on 15 and 22 November.

8417 kHz, 15-11, 0820 UTC 471 503 6 53226 93526 84526 93423 02304 51 then off
8417 kHz, 22-11,0820 UTC Stopped and restarted twice during the callup
471 503 6 53226 93526 84526 93423 02304 51242 503 6 00000
9262 kHz, 22-11, 0833 UTC Late start 471 503 6 53226 93526 84526 93423 02304 51242 503 6 00000

S11a

4828 kHz, 07-11, 0455 UTC

321/39 Vnimanaye
92745 69307 66826 94656 71960 06423 54176 38933 77610 15700
99463 31375 27165 51737 43105 82225 02155 69376 60444 27532
17067 71211 06359 96032 43183 77416 13099 07248 28014 59564
89655 65122 42488 90388 67738 55752 65758 94477 81532
Vnimanaye, rpt msg, konets

7504 kHz, 07-11/10-11, 0915 UTC

481/30 Vnimanaye
78629 40681 22841 21420 46979 89508 33489 33145 93618 05028
86770 93364 78924 71959 54300 44526 78949 76522 81185 76412
19384 88036 62059 34584 87006 92355 43822 36149 87002 39492
Vnimanaye, rpt msg, konets

10728 kHz, 08-11/11-11, 1540 UTC

563/38 Vnimanaye
93094 13103 94462 70193 39572 74936 67247 98947 66217 02873
07971 46009 69171 47315 95567 61773 87151 93960 61412 57095
06464 06011 40838 35248 27257 61688 75346 30162 89356 36413
43509 89199 64414 26244 25342 32238 94892 24013
Vnimanaye, rpt msg, konets

5815 kHz, 08-11/10-11, 1955 UTC

377/31 Vnimanaye
90541 85159 73747 58440 09536 09068 44595 97781 13846 16077
20210 54119 03893 52921 24307 44911 27534 07838 19162 36669
35995 97701 17235 87626 37487 02976 92500 73468 80532 98784
42065
Vnimanaye, rpt msg, konets

7840 kHz, 24-11, 1020 UTC

422/34 Vnimanaye
63338 71533 92336 91183 40886 52907 43726 29061 52018 25857
55283 69676 25736 65018 95543 57107 48014 55581 03041 72588
01944 88280 06786 42671 26885 71833 26673 28492 26701 34657
79632 83905 45713 62958
Vnimanaye, rpt msg, out

11559 kHz, 27-11/30-11, 1015 UTC

471/33 Vnimanaye
55409 33104 44551 93886 07182 04823 06200 13377 46786 87955
71776 98139 03167 57226 57744 47223 41473 57711 94427 20092
59825 58075 23749 39865 50673 41481 17224 75702 74656 88690
72764 19527 91247
Vnimanaye, rpt msg, konets

V07

18174/15874/14374 kHz, 05-11, 0100/0120/0140 UTC

183 183 183 1 6081 69 6081 69

97981 77799 35455 52167 17950 24452 76304 11150 77370 84697

17418 45248 13206 82416 46037 58132 96272 30433 89805 47490

59293 24666 98362 83911 32611 39848 11428 77982 68994 36237

86708 48668 85633 04723 35276 42715 65824 07390 71903 29636

38332 37948 80571 08493 42788 07988 66843 52949 40924 68928

61691 ?0561 ?1199 68290 12674 06912 27803 96029 50501 86862

87567 59377 06442 88867 33318 19786 64253 06191 9061? 000 000

V13 - New Star Broadcasting Station (星廣播電台 Xīngxīng guǎngbò diàntái)

After a very busy October, November was very quiet. V13 also changed its schedules several times.

V15 via Radio Pyongyang

3250/3320/6400 kHz, 04-11, 1514 UTC

North Korean Intelligence via Radio Pyongyang i.p. Female operator reading a message in Korean.

Recording: <http://numbersoddities.nl/V15-2017-11-04-1515utc-3250khz.mp3>

Transcript by Amano. Thanks for that!

Announcement in Korean:

jigeumbuteo 21(i-ship il)ho tamsadaewondeul-eul-wihan wongyeog gyoyug daehag hwahag bogseubgwa jeleul allyeodeuli-gesseub nida. munjeleul buleugesseub nida.

Translated:

From now on for the 21st Expedition Distance Learning College Chemistry Review. I will let you know. Let's call the problem

Excerpts from the message:

1st line: 109(peak gu) page 8(pal) #beon,

She reads the number of pages and the number of 57 lines.

22nd line: x2(i) #bean,

23rd line: 991(gu-peak gu-ship il) page 26(i-ship yuk) #bean,

57th line (last line): 276(i-peak chil-ship yuk) page 7(chil) #beon -ibnida.

dasi buleu gesseub nida. (I call it again.)

Repeats the message followed by "i sang ibnida" (the end.)

Korean numbers:

0: gong, 1: il, 2: i, 3: sam, 4: sa, 5: o, 6: yuk, 7: chil, 8: pal, 9: gu, 10: ship, 100: peak

3250//3320//6400 kHz, 09-11-2017, 1615 UTC

V15 North Korean Intelligence via Radio Pyongyang Music followed by a message in Korean

Recording: <http://www.numbersoddities.nl/V15-2017-11-09-1615utc.mp3>

Thanks to HK and Phi for the V28 logs. This North Korean net is still a mystery. Is it an intelligence net or a military net?

Freq	Date	UTC	Details
2930	1-11	1337	Parrot. Messages in Korean. Female operator
3000	1-11	1337	Parrot. Messages in Korean. Male operator
3050	1-11	1337	Parrot. Messages in Korean
3518	1-11	1337	Parrot. Messages in Korean. Female operator
4494	2-11	2229	Parrot. Message in Korean. Female operator. Secret code sounded like as Kong-Goh-San
4628	2-11	2229	Parrot. Message in Korean. Female operator.
4979	2-11	2234	Parrot. Message in Korean
5164	2-11	2234	Parrot. Message in Korean. Male operator.
4494	4-11	2230	Parrot. Message in Korean. Code word San Go San. Female operator
4628	4-11	2230	Parrot. Message in Korean. Female operator
4972	4-11	2231	Parrot. Message in Korean. Female operator. Moved to 4982 kHz at 2232 UTC
5071	4-11	2231	Parrot. Message in Korean. Male operator. Probably moved to 5160 kHz
4982	4-11	2232	Parrot. Message in Korean. Female operator. Comes from 4972 kHz
5160	4-11	2233	Parrot. Message in Korean. Male operator. Comes probably from 5071 kHz
3050.4	5-11	1329	Parrot. Message in Korean. Female operator
3517.9	5-11	1335	Parrot. Message in Korean. Female operator
2933.3	5-11	1337	Parrot. Message in Korean. Barely audible
4494	5-11	2239	Parrot. Message in Korean. Female operator
4983	5-11	2239	Parrot. Message in Korean. Female operator
5163	5-11	2239	Parrot. Message in Korean. Male operator
4628	5-11	2244	Parrot. Message in Korean. Female operator
3049	6-11	1329	Parrot. Message in Korean. Moves to 3051 kHz
3518	6-11	1330	Parrot. Message in Korean.
2933	6-11	1332	Parrot. Message in Korean.
3002	6-11	1333	Parrot. Message in Korean. Male operator
4494	10-11	2229	Parrot. Messages in Korean. Female operator
4629.9	10-11	2230	Parrot. Messages in Korean. Female operator
4977.1	10-11	2232	Parrot. Messages in Korean. Female operator
5163.6	10-11	2236	Parrot. Messages in Korean. Male operator
3517.9	12-11	1330	Parrot. Messages in Korean. Female operator
3050.7	12-11	1331	Parrot. Messages in Korean. Female operator
2933.5	12-11	1332	Parrot. Messages in Korean
3001.1	12-11	1338	Parrot. Messages in Korean. Female and male operators
4494	15-11	2230	Parrot. Messages in Korean. Female operator
4630	15-11	2230	Parrot. Messages in Korean. Female operator
4977	15-11	2230	Parrot. Messages in Korean. Female operator
5164	15-11	2230	Parrot. Messages in Korean. Male operator
3001	16-11	1334	Parrot. Messages in Korean. Male operator
3044	16-11	1334	Parrot. Messages in Korean. Female operator
3517	16-11	1334	Parrot. Messages in Korean. Female operator
3518	17-11	1330	Parrot. Messages in Korean. Female operator
3001	17-11	1334	Parrot. Messages in Korean. Male operator
3050	17-11	1334	Parrot. Messages in Korean. Female operator
3001	18-11	1331	Parrot. Messages in Korean. Female operator
3518	18-11	1331	Parrot. Messages in Korean. Female operator
3001	19-11	1331	Parrot. Messages in Korean. Female operator
3518	19-11	1331	Parrot. Messages in Korean. Female operator
4494	20-11	2230	Parrot. Messages in Korean. Female operator
4625	20-11	2230	Parrot. Messages in Korean. Female operator

Freq	Date	UTC	Details
4975	20-11	2230	Parrot. Messages in Korean. Female operator
5172.5	20-11	2230	Parrot. Messages in Korean. Male operator
3051.2	26-11	1331	Parrot. Messages in Korean. Female operator
3001.1	26-11	1333	Parrot. Messages in Korean. Male operator
2931.8	26-11	1337	Parrot. Messages in Korean. Female operator. Drifting to 2930.8 kHz
2931	27-11	1329	Parrot. Messages in Korean
3518	27-11	1329	Parrot. Messages in Korean
3050	27-11	1330	Parrot. Messages in Korean
3001	27-11	1332	Parrot. Messages in Korean
4494	27-11	2233	Parrot. Messages in Korean. Female operator
4625	27-11	2233	Parrot. Messages in Korean. Female operator
5035	27-11	2233	Parrot. Messages in Korean. Male operator
5157	27-11	2233	Parrot. Messages in Korean. Male operator
2932	29-11	1337	Parrot. Messages in Korean
3001	29-11	1337	Parrot. Messages in Korean. Male operator
3518	29-11	1337	Parrot. Messages in Korean
3051	29-11	1338	Parrot. Tentative
4490	29-11	2230	Parrot. Messages in Korean. Male operator
4635	29-11	2231	Parrot. Messages in Korean. Female operator
4983	29-11	2231	Parrot. Messages in Korean. Female operator
5166	29-11	2233	Parrot. Messages in Korean. Male operator

VC01 - Chinese Robot (Chinese Air Defense)

Besides the well-known very fast spoken transmissions, the Chinese Robot also has much slower versions. The slower ones often send only a few messages, then pause and go to the next message. The speed probably depends on the volume of data that has to be sent.

HK heard these slow versions of VC01 in the past.

5104.0 kHz, 20-03-2016, 1152 UTC

3624.0 kHz, 03-03-2016, 1355 UTC

4334.5 kHz, 01-01-2017, 1444 UTC

5139.0 kHz, 31-01-2017, 1227 UTC

5223.5 kHz, 25-02-2017, 0934 UTC

See the Logs Section for this month's logs.

MORSE STATIONS

M01

5810 kHz, 11-11, 1500 UTC

197 430 30 430 30 =
38915 40594 44217 88819 75721 13365 96062 62129 69026 38335
62394 94012 43619 43619 75275 51203 13475 30846 98864 81439
12711 71411 52499 x7553 74094 65169 07745 31669 41181 86060
430 30 430 30 000

5465 kHz, 19-11, 0700 UTC

197 127 127 30 30 = =
12278 61126 32159 91731 79830 64161 65322 09888 75104 87615
98371 25707 25092 21650 17059 83886 50341 23501 12273 84972
35232 55310 36017 38879 27583 37986 12110 92823 12273 21306
= = 127 127 30 30 000

5465 kHz, 26-11, 0700 UTC, some errors

197 378 6 30 378 30
59236 78180 89646 15708 61324 39026 33169 74590 44212 49871
07369 37330 41824 84087 53232 06776 73450 84271 15357 14132
82889 94992 04856 18039 17160 96121 36203 97487 54505 56685
378 30 000

M01a

8111 kHz, 02-11, 0632 UTC, i.p.

536 536 536 34667 34667
536 536 536 32280 32280
536 536 536 32280 32280
536 536 536 32280 32280
536 536 536 32280 32280

10233 kHz, 07-11, 0621 UTC

354 (x3) 78505 (x2) (Rx12) Cuts out midway into last 5fig group.
354 (x3) 79626 (x2) (Rx4) Cuts out midway into last 5fig group.
111 999
00009 00030 18864 44098 31695 14410 36706 17791 62168 51460
21301 01742 00170 70961 22439 21279 21052 38532 83592 78577
61925 05624 76594 73258 65316 79428 11933 65040 41601 09644
41994 76321 00040 00009 00000 = 009 35 000

10233 kHz 14-11, 0626 UTC, i.p.

354 (x3) 79626 79....
111 999
00003 00030 87185 18114 40590 61797 22327 07863 36064 57498
93062 22501 34566 39437 78384 05166 15033 25685 93171 80245
91351 95901 53978 20300 10527 80916 60815 10222 60577 39982
91464 15626 00030 00003 00000 =
003 35 000

10651 kHz, 14-11, 0715 UTC, i.p.

78384 05166 15033 25685 93171 80245 91351 95901 53978 20300
10527 80916 60815 10222 60577 39982 91464 15626 00030 00004
00000 =
004 35 000

10233 kHz, 21-11, 0622 UTC

354 (x3) 78505 (x2) (Rx12)
354 (x3) 77629 (x2) (Rx10)
354 (x2)

10651 kHz, 21-11, 0711 UTC

Test Tones...
297 (x3) 38180 (x2) (Rx11)
297 (x3) 39318 (x2) (Rx11)

9129 kHz, 22-11, 0531 UTC

498 (x3) 42482 (x2)
498 (x3) 53173 (x2) (Rx8)
498 (x3) 52482 (x2) (Rx6)
498 (x3) 53173 (x2)
498 (x3) 53067 (x2) (Rx4)

M08a - Dirección General de Inteligencia

M08a is not often reported but it is still on the air.

8096 kHz, 8-11, 1420 UTC in progress
8135 kHz, 17-11, 2300 UTC RUERN NUTRN NUTRN NUTRN ENVRN = = = message that ended with DIDTA TEITA DIDTA LIDTA
DIDTA = = = then another message. Ends with SK
8135 kHz, 30-11, 2254 UTC Early start

M12

16296/14796/13396 kHz, 01-11, 1400/1420/1440 UTC

273 273 273 1 3320 87 3320 87
44489 81719 00790 06387 73120 76710 69100 70393 12846 92114
63110 50158 56582 77743 80735 54014 83158 65236 09969 31581
84953 42341 28050 86448 45186 63669 12036 53115 53748 81514
61735 49677 57648 02419 95871 85675 01471 74092 42591 94075
30090 61653 35122 96280 64292 30783 11757 69692 53553 72511
65929 36302 53702 60013 77790 73940 17835 88811 98160 54165
16817 10160 03918 93322 67575 44149 58016 69916 41912 19917
17975 06642 23218 89091 59063 05465 01883 31468 47265 22659
21496 11981 29428 28229 96225 57177 27798 000 000

9176/7931/6904 kHz, 01-11, 1700/1720/1740 UTC

257 257 257 1 9074 100 9074 100
68299 21879 89531 93514 75900 87590 39394 73820 93272 23501
96825 35228 23446 99722 99184 85563 66551 46776 67709 71394
29336 38055 82799 81565 94771 09713 89813 18356 71039 71695
12695 53328 74730 71727 26091 23753 39522 37444 72503 06583
77202 79989 41794 35070 96428 91691 06057 96065 13982 16388
85742 14253 39666 63420 29841 47151 71955 79057 66157 41153
28886 78917 38484 71839 39124 26368 52364 43254 78707 87940
19794 50240 26359 71624 40904 04001 38239 38284 49918 16738
17527 64641 56900 56544 41494 83726 46053 15961 42946 06903
61650 57125 54537 84214 10031 20218 73084 85295 79508 44200
000 000

9176/7931/6904 kHz, 01-11, 1800/1820/1840 UTC

257 257 257 1263 130 1263 130
27443 77819 77866 26803 97777 46508 23609 05053 37185 76231
97479 19087 88476 79444 90561 03206 78118 50727 38683 75080
47519 54925 74729 15424 31107 84974 41065 41406 71728 83404
96636 89668 14212 80172 72691 03318 78880 75685 47365 20575
52922 02740 32305 19210 65906 11006 48459 49203 82882 52720
76211 57248 32167 84357 37122 82752 47995 64109 49906 77144
17179 61043 93269 89223 99911 31918 08926 23682 23160 70474
77793 75529 41918 55112 09193 97830 36402 87771 74874 54713
33867 68890 46765 39276 30118 11411 70765 41383 89938 58292
16158 96926 20268 72365 78929 44576 24888 42281 95023 83915
26347 99817 41039 46712 99573 59538 44998 11249 62200 22303
81662 66034 76063 20164 98200 32188 54005 52417 74155 85202
24270 17118 78645 17885 18989 04469 14387 90449 29923 51352
000 000

8047/6802/5788 kHz, 01-11, 1900/1920/1940 UTC

463 463 463 1 5390 139 5390 139
34558 38027 63271 98424 03276 98309 38657 25160 96625 38442
25187 26021 44159 28136 67085 15057 91259 97847 49662 26801
80694 01640 42129 69885 92436 00423 26966 59519 79098 42995
59305 28244 75477 84505 75994 62705 56162 57153 87918 30752
95955 36334 22568 55350 76195 07771 10858 30604 73099 75435
95397 53399 18273 70646 08914 95861 15989 41214 33813 99135
75637 86262 95590 57524 39238 90941 10618 48225 34133 96438
92881 02633 87842 35504 01627 10856 73676 59862 96601 91632
80310 70097 93334 85377 10037 29077 51368 15756 99037 17564
88385 42794 01752 68799 53931 48707 98844 55623 21759 71363
65497 74297 46853 94278 25502 98302 64196 37389 35369 55589
24169 08840 02906 60285 20245 16621 76309 03184 12554 95982
85170 77794 36105 10382 19970 16729 02606 65858 91952 16372
81051 84103 56949 27511 29946 71203 31232 10279 000 000

5429/4629/4029 kHz, 01-11, 2200/2220/2240 UTC

460 460 460 1 5022 81 5022 81
71980 54522 56328 27280 10730 35378 57355 48548 38164 83002
52554 70095 79690 94115 61033 85608 49950 56501 78760 67641
97072 56884 76930 30159 45163 36573 64247 28813 80177 58612
84189 95142 12552 13237 06248 68481 30428 19807 73282 74820
95328 36373 24592 87096 20289 47276 32696 84812 43256 53402
85133 79018 74780 28203 29882 37063 07623 92197 45956 65965
96106 50706 54877 28474 70680 67111 88737 46020 87438 68504
00523 15515 88079 24487 72802 56133 12784 02019 36702 40608
31716 000 000

9162/8062/7462 kHz, 02-11/04-11, 1310/1330/1350 UTC

104 104 104 1 7919 59 7919 59
25459 71883 46144 91832 47647 44838 67713 47788 56729 79837
50316 09048 25723 74976 41113 90721 57610 20511 21130 19658
92142 11371 79535 90774 38938 54032 94997 92255 45104 49070
35830 20818 87605 38418 99630 44793 72044 40871 78349 98838
21346 88025 52908 02175 52647 54218 46158 71772 04834 75378
49977 60599 11579 77633 30619 00824 99023 34988 24510 000 000

14377/13461/12114 kHz, 02-11, 1700/1720/1740 UTC

317 317 317 1 3699 105 3699 105
92186 63274 21726 53217 91027 73627 83927 10701 76046 11779
20378 11077 00954 53323 41358 13376 34169 22029 49025 71843
60375 81460 74999 02162 54745 89424 95537 45849 31185 02621
37977 13392 62467 69414 36416 16811 27755 39247 42050 36103
15723 29272 87892 72421 18283 83151 29622 48548 38717 85480
89888 40977 70470 45650 23503 74509 09751 66518 53823 97987
72596 17420 86149 66438 78685 39259 06254 48308 51345 12143
67571 81379 52043 76842 02379 07995 64022 12020 21544 15285
22089 21074 57125 57024 98552 12445 32354 41032 85728 96893
30526 83379 04381 73432 94778 63927 49731 21217 33138 41835
70189 51005 69151 10142 33541 000 000

7637/9137/10237 kHz, 04-11, 0600/0620/0640 UTC

612 612 612 1 5022 81 5022 81
71980 54522 56328 27280 10730 35378 57355 48548 38164 83002
52554 70095 79690 94115 61033 85608 49950 56501 78760 67641
97072 56884 76930 30159 45163 36573 64247 28813 80177 58612
84189 95142 12552 13237 06248 68481 30428 19807 73282 74820
95328 36373 24592 87096 20289 47276 32696 84812 43256 53402
85133 79018 74780 28203 29882 37063 07623 92197 45956 65965
96106 50706 54877 28474 70680 67111 88737 46020 87438 68504
00523 15515 88079 24487 72802 56133 12784 02019 36702 40608
31716 000 000

9176/7931/6904 kHz, 06-11, 1700/1720/1740 UTC

257 257 257 1 9050 100 9050 100
37882 90301 80592 09507 38806 56591 41826 44359 24499 38136
28865 29193 01075 90736 70617 42234 22822 11243 47786 06148
82116 09765 65450 88747 29786 13391 29661 97128 31563 94736
08147 46096 82088 11592 09284 41244 75713 58590 03268 41682
44412 65468 69447 95684 40258 76830 99559 27388 67344 38112
79007 35450 00488 42822 92033 26966 72955 78177 93910 45344
62039 38109 19791 75419 40336 27242 89404 47002 25468 01539
15738 21205 79962 25254 53031 14020 31107 50617 61454 15103
50156 22207 00479 50702 87450 20334 29501 17856 80656 46753
19182 81823 47716 72484 79141 61023 80578 79453 12309 94587
000 000

11435/10598/9327 kHz, 06-11, 1910/1930/1950 UTC

938 938 938 1 2490 78 2490 78
34413 92351 71768 24479 03671 74019 15674 57248 87956 13285
65136 30640 44120 64494 52170 87701 99029 30328 55140 55696
85765 04632 87058 30178 11154 11217 46250 42494 14390 13816
58940 65008 34869 69081 27048 72992 30629 05275 76240 85054
71172 39983 74174 95513 01786 66412 63748 99438 43218 29097
41802 93447 94804 09664 50888 89193 89737 22745 24334 74659
46453 73889 02870 85226 71528 25374 42785 23015 97424 20898
50479 08699 50277 19910 62609 09827 15572 000 000

9176/7931/6904 kHz, 08-11, 1700/1720/1740 UTC

257 257 257 1 7089 108 7089 108
40995 25548 78549 75097 47091 71013 44900 27097 63721 60206
79802 20114 97972 57517 46511 87942 99756 62033 18543 85777
45531 20270 28468 13742 51921 07560 90169 87583 04636 69770
01998 43212 23356 26956 79999 29985 28137 50339 18315 05243
72486 55280 56067 42572 37192 45049 99851 37388 69068 10019
38715 72743 71894 35278 82724 65203 66663 12970 78865 93478
23685 70368 94903 27889 33480 86298 13277 51293 18501 39583
08647 95900 35301 43480 21450 17590 51320 47240 40732 45893
62176 94231 18760 05989 90833 42258 18391 33298 02743 03858
39976 35963 34745 23621 09410 80002 33058 04860 61219 79148
29669 80559 85108 75298 98897 44741 96975 35657 000 000

9176/7931/6904 kHz, 08-11, 1800/1820/1840 UTC

257 257 257 1 1197 143 1197 143
03763 41942 41767 85471 91999 11939 20608 36540 32120 09313
70756 64033 44706 48440 54614 51186 42977 77475 90563 62585
69946 90514 76558 20403 93218 38368 04276 49055 12755 13366
19635 14873 10301 87352 03776 36936 50653 04375 35045 80842
42208 68026 18988 56564 57820 54908 21616 64074 93664 05562
53666 00455 71298 76120 21832 18714 27323 10773 01229 47392
83026 74715 42634 11272 65369 48677 27348 22062 47731 46246
30290 27493 80007 41423 95134 99950 30727 25987 17012 39080
86743 01191 94463 13676 75147 42811 26974 84301 64983 91268
00694 29072 19417 25209 99805 84573 32198 12041 15106 58760
92863 94627 58168 71317 74191 55309 66900 68372 65001 54753
75656 06766 14559 08754 83036 45334 21344 68786 85920 62543
40561 74222 96980 83896 48140 59618 75199 41385 96504 93071
41492 28229 60757 57369 33831 24901 19359 44145 97660 33603
45895 30291 01051 000 000

7637/9137/10237 kHz, 11-11, 0600/0620/0640 UTC

612 612 612 1 2212 153 2212 153
58264 76214 50400 67325 33566 87267 00188 16208 84693 34218
51931 92604 79480 01014 29496 98353 45896 89067 94242 43579
00510 43926 16689 52777 57653 80066 46402 36541 47413 82456
98631 88943 52362 51509 96441 17257 10737 61566 08052 15980
51568 24770 27361 73460 18012 87169 81481 41022 39173 23592
15154 96981 17734 49277 02794 00504 86532 00119 78349 61891
70701 13589 03458 70982 79256 95019 63401 55053 48439 54333
30711 39107 41383 41147 57408 29432 18965 43360 36134 24777
28913 70405 71755 38087 07783 12970 62152 39870 02953 29141
78926 11360 68391 85171 62090 84291 82686 12236 78154 50749
46782 72502 38373 22263 30087 65597 96340 61301 41058 91846
61285 67740 95685 93240 42954 29643 53162 61612 01404 04984
73622 33270 47182 52695 59443 81639 21887 74215 14710 23799
53186 31757 68576 85252 82089 67429 48163 76356 78091 34655
65852 94354 79193 14003 86921 15199 18737 53252 70954 34073
39739 06908 11152 000 000

16296/14796/13396 kHz, 13-11, 1400/1420/1440 UTC

273 273 273 1 6938 71 6938 71
58730 08976 26610 70388 39631 28441 85615 95342 68694 80257
74363 07147 84201 77108 15982 07963 17819 27492 26079 00952
03030 77348 85276 04770 10694 91292 64055 14154 62288 87239
30001 75558 51100 79668 65739 23798 71960 29559 10015 92135
02680 63037 83448 36207 53679 99558 78113 94033 03084 02433
38682 37874 34656 36588 77939 06839 88941 42739 10186 77671
25328 16778 62293 03772 67570 58420 89796 26346 36628 40266
58643 000 000

9176/7931/6904 kHz, 13-11, 1700/1720/1740 UTC

257 257 257 1 5503 105 5503 105
65081 59089 52280 80955 39049 19790 60543 68848 48602 97034
87367 06049 48101 24697 66445 93879 55589 67169 24501 42682
19743 00383 00624 62176 17987 81758 77145 86079 56141 73298
70497 81379 62414 73802 15420 31833 34340 78821 56297 62573
09653 28898 22402 36728 14427 36290 75470 30275 31043 86164
82042 78716 37962 73222 99745 75180 12611 91855 85573 67389
84816 83157 89746 22751 36877 54392 91949 19990 36733 77802
59871 11175 01428 40553 44121 13547 62967 07430 10311 76029
68378 64377 57949 69575 47604 08183 25889 02314 12651 97063
65912 49576 21511 49619 75312 71694 98491 08821 84915 15356
94591 45494 62487 60504 70104 000 000

16296/14796/13396 kHz, 15-11, 1400/1420/1440 UTC

273 273 273 1 6938 71 6938 71
58730 08976 26610 70388 39631 28441 85615 95342 68694 80257
74363 07147 84201 77108 15982 07963 17819 27492 26079 00952
03030 77348 85276 04770 10694 91292 64055 14154 62288 87239
30001 75558 51100 79668 65739 23798 71960 29559 10015 92135
02680 63037 83448 36207 53679 99558 78113 94033 03084 02433
38682 37874 34656 36588 77939 06839 88941 42719 10186 77671
25328 16778 62293 03772 67570 58420 89796 26346 36628 40266
58643 000 000

9176/7931/6904 kHz, 15-11, 1700/1720/1740 UTC

257 257 257 1 5632 106 5632 106
98447 40408 54642 57406 48103 18379 28981 03803 76107 63769
50542 99629 30218 90799 57903 81058 65293 42992 41582 75281
47912 43490 05948 82145 50403 62516 99401 05499 24646 34900
55542 29704 00004 29738 65078 17844 02136 50181 48845 11929
28550 59710 69968 15123 54271 96526 48082 05619 27706 55818
87296 80704 02563 13155 69834 03268 89104 20667 16303 35953
19231 74865 17626 65531 21814 04399 06936 73358 81291 08960
65306 13969 10878 58822 62657 86792 17622 80629 43081 23002
68752 80068 86820 72857 15069 80291 10292 31376 72828 88176
14921 27985 56771 72679 38898 46248 55056 26714 14630 68788
89208 97331 14757 66327 96511 00524 000 000

8047/6802/5788 kHz, 15-11, 1900/1920/1940 UTC

463 463 463 1 1432 143 1432 143
48617 22356 26239 77783 35944 22699 08961 03908 01304 49251
93382 78698 24853 37567 04990 06025 92984 02114 95416 36603
89925 66492 16004 63314 14056 12487 66239 55781 65478 06741
31069 99454 35569 12019 58653 36015 11693 90950 10226 22040
20544 36301 65243 87992 00358 18733 92260 42378 15011 15299
59203 71259 82359 43937 54749 62704 33383 50776 59575 71040
28464 48812 67247 30140 22389 29327 74389 01388 65967 75444
49084 38296 67898 32603 99077 25860 28579 03810 15119 56571
32978 53719 26600 97497 04502 58117 97898 01941 82515 97612
92613 48848 48875 29271 42463 17293 50786 75823 14274 72524
06173 78231 75940 73111 08114 00018 36400 15936 16433 35275
69628 02663 39665 26401 02611 61122 28977 64416 03693 69400
66185 74933 23342 20705 53712 33250 36230 87861 59473 37487
63138 57000 21053 21250 81415 35204 95828 18766 05873 25444
11205 62073 25495 000 000

15869/17469/18769 kHz, 16-11/19-11, 1010/1030/1050 UTC

847 847 847 1 7427 83 7427 83
05993 02151 06036 46150 72973 91494 82066 23709 43208 83930
86459 42050 48023 88075 04108 95097 17122 93797 39255 21751
95998 64522 68313 53698 58018 13398 33834 65840 67521 24160
73284 69893 60118 11712 14363 34426 07850 00233 55513 65442
45552 72987 28627 18290 25804 36405 75819 50627 09618 86667
09223 00904 95468 47681 72620 31641 98984 68962 95724 44059
65631 71708 62130 71573 25337 99615 85193 68694 42248 05811
79449 27045 13722 56647 28317 03407 84754 30862 66886 42838
75143 79435 13033 000 000

9162/8062/7462 kHz, 16-11/18-11, 1310/1330/1350 UTC

104 104 104 1 5326 67 5326 67
30461 18749 19024 56066 17330 97463 75681 71114 64383 55977
60049 96387 69079 77839 96451 43491 99852 98679 16912 39211
10228 90220 33764 20859 29040 45984 96810 09738 12944 81945
36618 12600 12598 46030 62784 47091 98930 72485 25412 18748
33752 83743 11933 90929 63220 19315 90984 24272 53136 69504
60489 11897 54921 35644 59236 17676 40596 88902 04271 90786
78569 56513 95343 13540 42687 09612 86542 000 000

9176/7931/6904 kHz, 20-11, 1700/1720/1740 UTC

257 257 257 1 8757 106 8757 106
08131 76863 26303 65335 37011 43296 35864 59178 85099 81020
57229 13098 32959 23284 76995 44956 08270 24442 82031 63640
79270 24658 35169 68300 03606 61392 66683 85805 13421 10962
48513 61975 29357 99027 37039 49183 12304 99494 35762 83561
58206 78534 68370 54215 13421 27179 54790 31690 34502 54201
80579 76740 04888 74513 50358 76346 40023 23897 96958 81289
30516 63717 60975 25882 69182 91969 12181 34619 95622 34943
68599 62898 66912 12197 23505 71286 84017 16609 77787 60212
66944 64071 08449 50934 06217 02712 69297 88213 46162 01621
97348 40468 87379 62124 42452 20524 25997 41223 43717 60053
10601 51000 86963 65084 62714 39838 000 000

11435/10598/9327 kHz, 20-11, 1910/1930/1950 UTC

938 938 938 1 6363 84 6363 84
95797 36985 05052 76144 23284 82367 40703 19159 68118 96025
12053 16355 18546 91705 00040 72191 18968 44892 18806 62615
29920 06639 69163 44921 87995 08454 86022 06222 06980 30922
38475 98724 57002 70459 86800 58489 86359 61972 11399 44155
60684 00375 04867 41355 83552 37111 12983 84119 21353 13885
16020 24019 65055 39592 42490 52476 85658 72652 86637 87997
63441 21404 68264 84754 39811 68186 14894 08770 38218 08770
38417 00xxx 53618 17855 84142 79731 78910 72292 75536 09186
96574 32171 36051 55504 97342 03914 000 000

9176/7931/6904 kHz, 22-11, 1700/1720/1740 UTC

257 257 257 1 2061 101 2061 101
67476 09831 64854 01505 44687 82977 89507 69093 79932 02927
33253 62104 82913 04705 61754 43609 69086 11018 57616 75190
08658 82568 89253 97486 84214 94542 89332 58552 37222 23430
77446 77109 18643 47115 56077 11566 81121 14472 39310 90721
73111 77722 35562 43176 05989 35555 70633 31948 49906 26351
89480 74675 90252 28483 42817 03543 47047 97365 51669 85948
71776 09904 67235 27820 96722 98366 27542 19554 60560 61219
16896 27324 59294 89951 48756 74658 23503 47656 09321 47721
79655 38730 58858 18085 69886 84574 91158 98114 20887 20194
18375 52260 89758 62087 36582 43773 35726 41977 27345 92471
47419 000 000

5429/4629/4029 kHz, 22-11, 2200/2220/2240 UTC

460 460 460 1 7787 135 7787 135
75975 82696 18714 63588 44554 15067 15730 21002 62051 60326
78165 82264 90294 45355 99166 21029 93619 27968 41909 76425
25411 17025 21244 16557 05042 56273 04999 81014 20445 27362
51605 71347 57645 79708 31575 23628 88921 46456 24088 63290
67826 64386 72674 10852 09123 04907 15965 68124 78801 78817
76893 37594 29440 65213 34065 89870 66739 42711 68669 60984
03110 19109 40301 81267 81312 12536 18897 63362 47953 96448
80584 21285 46633 76089 52520 17259 48647 58369 06512 72875
49089 48496 45162 25055 51412 41822 77240 54456 05751 48024
34626 08922 34867 35771 80443 41637 81586 74762 57197 24553
47886 46929 29196 69680 70616 09396 26792 37319 42539 54588
25233 55185 20061 21102 26320 69559 32212 66387 09237 52242
19510 64827 74175 63922 22868 31817 63870 31345 94229 99531
64975 57494 89932 17710 41987 000 000

9162/8062/7462 kHz, 23-11/25-11, 1310/1330/1350 UTC

104 104 104 1 8788 89 8788 89
27241 70392 35480 98841 34937 31118 32144 34824 25865 18684
10498 31787 06847 64895 40588 10722 68217 72454 47044 48202
77404 12680 80505 32422 90434 50522 69275 73021 39646 51905
63422 06081 18152 69901 78570 70046 44902 45162 51476 95245
60025 89008 92897 21607 99201 06243 14322 98414 03070 18796
41345 72742 17973 83159 24967 15203 51329 53691 34201 90604
73159 05899 68389 93963 25879 93718 48401 39451 06457 23673
72949 95583 38917 22434 80820 63287 67939 21412 74096 49230
29191 84293 79737 73462 70036 53447 06476 73183 06410 000 000

7637/9137/10237 kHz, 25-11, 0600/0620/0640 UTC

612 612 612 1 7787 135 7787 135
75975 82696 18714 63588 44554 15067 15730 21002 62051 60326
78165 82264 90294 45355 99166 21029 93619 27968 41909 76425
25411 17025 21244 16557 05042 56273 04999 81014 20445 27362
51605 71347 57645 79708 31575 23628 88921 46456 24088 63290
67826 64386 72674 10852 09123 04907 15965 68124 78801 78817
76893 37594 29440 65213 34065 89870 66739 42711 68669 60984
03110 19109 40301 81267 81312 12536 18897 63362 47953 96448
80584 21285 46633 76089 52520 17259 48647 58369 06512 72875
49089 48496 45162 25055 51412 41822 77240 54456 05751 48024
34626 08922 34867 35771 80443 41637 81586 74762 57197 24553
47886 46929 29196 69680 70616 09396 26792 37319 42539 54588
25233 55185 20061 21102 26320 69559 32212 66387 09237 52242
19510 64827 74175 63922 22868 31817 63870 31345 94229 99531
64975 57494 89932 17710 41987 000 000

16296/14796/13396 kHz, 27-11/29-11, 1400/1420/1440 UTC

273 273 273 1 7222 125 7222 125
33808 40342 17018 07042 48512 57832 49614 32722 60990 47244
81344 75823 32120 78579 77213 30261 09845 78306 99978 82209
55361 49749 40794 36577 78554 86927 81173 51272 43942 98321
11337 22792 14391 39514 13446 76621 55489 38993 29805 42779
77963 77041 19606 79056 80112 94853 52272 93901 17172 94369
09740 07298 27015 88735 59853 21893 77219 95281 54612 90329
16139 44993 71106 91179 22590 17022 84377 63417 56649 44514
70346 56510 24708 67664 98251 87490 02308 97561 53903 07527
89388 80520 05410 70775 93972 32362 65342 49141 22088 96356
71737 65436 24121 02323 38679 45429 59315 19122 59526 04708
78893 68561 90889 68163 43182 26266 99125 21599 22715 54603
22754 68481 66089 06570 12030 28352 20797 74560 60164 40854
46617 26669 19593 66069 90569 000 000

9176/7931/6904 kHz, 27-11, 1700/1720/1740 UTC

257 257 257 1 2278 101 2278 101
65627 71444 28855 71638 11761 57647 56820 44253 45023 98724
33451 84060 20712 82179 15008 17920 41628 86847 94264 21073
71897 91593 86572 89988 45574 00800 46045 60832 04989 35948
33070 31339 44156 64961 29372 54499 74657 87461 43981 76449
01268 91692 09718 11574 26233 82865 93528 75044 27178 34606
66471 81173 53283 83308 35208 59803 14204 89586 94747 36208
60817 55312 76114 71968 17724 31877 45929 56207 24301 50397
43653 57486 38029 83224 50383 47047 48310 03392 21013 34932
62804 96226 85385 63511 65966 02611 39121 64771 28411 47899
22962 68817 09416 09638 40892 45778 23971 08178 51418 98173
07274 000 000

9176/7931/6904 kHz, 29-11, 1700/1720/1740 UTC

257 257 257 1 7139 108 7139 108
39548 99835 22089 19888 89205 64197 33300 98810 83734 35751
98815 98089 20781 24348 27525 95927 28108 75143 65587 29771
22827 28398 21742 70684 05525 09762 23332 92857 96415 30887
79295 60152 08560 80841 64983 16777 24294 65103 95943 18484
09458 55919 97844 16868 31577 42930 72391 51227 14093 04441
77266 52105 18445 75645 82905 10135 52341 11182 67408 53660
67201 79362 57313 43193 55370 19055 17368 01783 31802 76231
93290 41870 29005 65716 48018 81662 14639 47386 57603 94480
96902 61819 93956 35115 66906 55623 16810 87677 51018 09258
66595 78181 22235 59759 54069 59679 65000 28668 27499 20135
47740 39034 20615 65774 55343 40148 04416 27411 000 000

9176/7931/6904 kHz, 29-11, 1800/1820/1840 UTC

257 157 157 1 5232 141 5232 141
72290 22522 59659 58529 42332 03116 99700 01448 77724 04404
65441 83784 26084 27774 66560 20286 25018 87477 02665 90186
83909 50966 94300 92245 93719 64420 75383 79739 75700 17084
65499 60587 94552 05730 57400 53978 47321 14521 04519 18791
22951 75170 37013 92098 42477 78934 41563 13261 18023 07898
28838 02257 44707 13202 33781 33014 15331 01425 09089 14380
22653 17874 74445 09548 37949 64197 18518 23289 23732 04857
03958 20499 63965 39998 78020 81594 83211 86683 92753 41518
26377 23314 48406 94171 37949 99923 38527 81294 64771 73588
01246 37022 84638 37966 08752 01752 79953 61757 94363 78466
24039 33950 46142 83405 17618 25641 57206 73060 84997 55479
38366 37097 42231 32423 33911 86747 70559 50237 39017 56132
04673 22918 61457 77847 80058 56433 91561 70859 93339 30493
34024 74404 31764 62939 99698 53368 21444 65383 91035 30033
000 000

15869/17469/18769 kHz, 30-11, 1010/1030/1050 UTC

847 847 847 1 9537 71 9537 71
60620 50785 11025 88492 74964 58726 14484 19095 83420 56014
88490 79905 06899 84333 06672 86550 62846 03935 02531 15550
41638 16112 54654 78737 64250 74976 48093 47736 09496 88921
02325 42726 98029 33214 50828 03299 20191 67739 84898 77361
56294 22684 93700 67497 60040 55461 62634 78329 83314 58898
49830 09394 00252 40658 97449 96522 36021 54642 97193 04550
29866 22899 38494 32919 29634 47260 49429 28039 83417 10999
22180 000 000

14377/13461/12114 kHz, 30-11, 1700/1720/1740 UTC

317 317 317 1 8240 105 8240 105
77449 10905 08074 15961 58135 05814 42925 78638 94734 22754
70564 84762 01080 89546 73526 24391 82321 04985 59637 46633
74947 54605 09187 11946 70417 14520 55009 72195 61457 57111
31263 49387 47850 27447 23909 16870 41842 16132 97112 73232
28872 87782 88426 73522 34917 42819 91351 18636 29455 67540
76930 04239 88449 59664 91441 11025 86470 70464 83691 87118
12744 38159 76886 98381 55313 07442 49877 88423 62650 95119
77610 83611 73377 22547 63982 19562 97989 63610 78382 33720
29446 08116 03648 28782 04865 31866 71546 90585 31738 58612
57909 37032 13415 68069 84387 70182 78613 64587 10321 60887
25720 85618 71114 24988 25700 000 000

M14

18041 kHz, 01-11, 0500 UTC

952 146 146 50 50 = =
56345 79504 71912 48080 79971 21662 01162 78346 09900 56764
66397 65161 07196 59654 64368 79933 42262 24120 47871 80958
53134 48115 20619 31503 54647 73379 04078 77748 46934 21639
87222 41297 96662 94572 95129 05902 89475 29743 37359 03135
77051 29665 22064 26660 67239 06207 46752 29812 30689 07517
= = 146 146 50 50 00000

18041 kHz, 02-11, 0500 UTC

952 378 378 60 60 = =
63374 16752 04099 16020 40943 64041 56425 50304 41928 48319
32309 90780 92456 56066 18338 16258 90953 76250 18592 18405
27074 88764 65624 00394 93711 18210 58102 08858 65508 20194
61046 78827 42305 92331 29598 96350 80971 27148 42274 08467
64049 49056 54615 35243 78659 02611 09193 63536 04086 84215
62898 27192 31502 34471 17453 03349 64254 33368 64081 79547
= = 378 378 60 60 00000

18041 kHz, 09-11, 0500 UTC

952 861 861 50 50 = =
21264 21946 64798 98061 93397 10220 95261 51228 40321 34569
87060 67424 41980 19609 62662 30937 54556 95941 88609 42135
93143 77330 30130 09257 84458 02962 56230 92643 81745 70759
99968 24851 59088 82651 03592 55076 27292 91767 03222 91340
38545 94466 32777 38859 72027 27158 51825 58047 17675 53858
= = 861 861 50 50 00000

18041 kHz, 10-11, 0500 UTC

952 370 370 60 60 = =
36587 86965 43193 62919 64089 55610 31434 76000 22755 84668
02550 96512 29196 32274 97559 56392 52253 63407 20259 44023
55886 83100 96952 71658 80053 59570 85892 91384 64262 60741
53621 45553 43486 52573 60387 62624 71134 32653 21831 34357
48756 97470 39135 35289 67172 66831 14810 70431 88721 13826
96319 62130 25304 73810 14717 12022 91915 30826 10499 99026
= = 370 370 60 60 00000

18041 kHz, 13-11, 0500 UTC

952 468 468 50 50 = =
77735 70089 28751 80564 27404 01639 04000 51648 93633 69964
47037 51519 04595 23704 14994 10535 10574 81844 15569 06030
67464 44920 31778 29819 93008 69980 65552 49935 94236 01522
61122 71289 89525 75555 94119 24947 73736 39008 37344 40708
99842 51648 39129 82668 75509 62717 75235 52464 98047 79447
= = 468 468 50 50 00000

18041 kHz, 14-11, 0500 UTC

952 170 170 55 55 = =
29301 20270 62562 19877 03794 75569 47668 60605 44270 66337
64353 63389 80157 80091 27355 62208 56998 97868 83221 72041
36687 39057 53659 99879 21243 24107 67409 97622 86055 84404
28894 99059 33540 74400 97104 08121 03145 65328 73203 30581
98634 25407 20236 66420 18607 16152 63425 05003 01161 59477
44456 90277 18667 55299 28211
= = 170 10 55 55 00000

18041 kHz, 15-11, 0500 UTC

952 187 187 60 60 = =
59242 67632 21540 95027 28023 74930 14761 43498 75877 09976
10149 27797 66883 76136 14468 06325 90967 87666 97105 91624
13849 63179 76204 74766 67708 22737 22849 40063 93517 43240
56768 37304 70961 51802 31972 03698 96902 61808 35767 52710
98309 81329 49592 71982 90607 48588 45107 97516 17362 74167
13968 56324 32260 94639 54739 94716 09307 67313 65365 34423
= = 187 187 60 60 00000

18041 kHz, 16-11, 0500 UTC

952 360 360 50 50 = =
11825 67559 09789 22031 30345 40569 25615 98702 19680 08434
27424 02894 29940 74120 67134 54621 38331 84275 56082 76062
58253 93477 80025 35347 02018 96555 54492 92014 51858 02411
87631 80057 18936 47779 42790 89516 95016 74375 17965 32528
26512 17849 84355 04802 65574 82000 51169 78431 77925 96682
= = 360 360 50 50 00000

18041 kHz, 21-11, 0500 UTC

952 703 703 50 50 = =
56674 71204 72835 75514 34711 50521 07950 08097 04430 42060
24786 10161 15017 50511 15623 62226 39638 69613 63675 27992
09956 98475 43474 50015 63243 20899 36196 20090 63030 52358
83365 41518 79225 84367 27378 25469 38648 80873 12274 88605
81902 06411 43204 44162 87548 90658 28029 03677 49483 59135
= = 703 703 50 50 00000

18041 kHz, 22-11, 0500 UTC

952 436 436 50 50 = =
51893 18681 23433 51195 84654 23360 89770 90458 83194 48947
91018 07698 46551 62376 95612 88916 98866 29953 37989 95822
71300 95620 53660 59952 66441 71822 77277 91754 97446 03901
08378 28043 19060 93966 74482 66266 92716 95179 46255 59033
52927 12381 84394 67331 67101 70002 22952 95870 06031 33206
= = 436 436 50 50 00000

18041 kHz, 23-11, 0500 UTC

952 871 871 60 60 = =
08186 18158 48131 47465 60930 09511 70154 44305 05996 75400
83556 36861 25304 98626 53315 54879 66875 90747 69525 85326
23044 75913 40309 80713 90805 86341 37958 33522 62726 10625
09226 71443 21863 62063 85724 53096 39116 59199 55351 68923
96466 35745 80694 76957 84531 22101 75342 28124 47867 65631
74046 60799 76465 81905 57661 69280 66887 54085 18819 75874
= = 871 871 60 60 00000

18041 kHz, 24-11, 0500 UTC

952 640 640 50 50 = =
77531 91798 00840 92385 11606 39211 79996 48916 99459 11794
46110 78573 58724 40653 41265 49574 94430 45645 13260 18454
52022 42826 61589 53764 04603 24451 56194 23543 59036 33210
27395 38739 41826 35391 50455 69788 50724 22657 73211 78511
82994 97120 60212 32537 76274 19411 51787 94436 22978 24416
= = 640 640 50 50 00000

18041 kHz, 27-11, 0500 UTC

952 279 279 55 55 = =
00446 06171 15508 64601 41366 03010 31875 62285 83930 61048
20704 62404 78357 72170 20394 26850 58597 03574 29112 32375
12985 94758 08502 82870 14361 51885 74199 55716 20596 94177
46612 49408 81476 32063 60385 24645 12867 81750 55993 56050
24093 45901 01910 36734 09492 15121 20764 02872 40054 69928
17953 70491 16106 87902 36129
= = 279 279 55 55 00000

18041 kHz, 28-11, 0500 UTC

952 408 408 61 61 = =
33880 53636 44365 41861 94112 31907 91879 13251 85293 84659
68282 00563 58797 89141 36746 79302 65368 40171 51805 99365
15594 71223 58545 49728 47107 09211 60247 65426 03220 86386
71679 62749 52665 57825 00216 13604 05148 97896 21978 94969
02373 74187 45188 74389 89257 22299 77907 17435 95006 69963
42360 28082 78732 83909 03033 57933 19319 37927 00721 45223
54208
= = 408 408 61 61 00000

18041 kHz, 30-11, 0500 UTC

952 748 748 50 50 = =
70821 64893 92636 89291 42366 82231 06597 41437 44792 52774
00892 68358 94430 65089 27897 54665 02974 95870 37274 54598
46289 22777 83899 50425 50136 21743 58156 02643 34954 59693
93272 05448 86929 18608 29411 25885 47516 11880 39167 50133
38597 78883 44191 85353 65483 68709 77612 10542 64931 48998
= = 748 748 50 50 00000

8167 kHz, 02-11, 1203 UTC, i.p.

10423 kHz, 02-11, 1131 UTC, i.p.

058 372 372 51 51 = =
44381 96967 28264 88112 36931 17582 72131 68741 33163 97295
28995 72167 84013 11078 50138 12009 18590 84517 38781 55704
05785 95651 27950 57627 38648 90556 27208 36458 39942 04903
99154 01465 12337 08649 51662 57408 81658 16068 56760 42743
06658 28299 32131 80805 53701 00600 46125 48682 59860 51495
32263
= = 372 372 51 51 00000

5430 kHz, 04-11, 0800 UTC / 5560 kHz, 04-11, 0900 UTC

5240 kHz, 05-11, 2300 UTC / 5825 kHz, 06-11, 0000 UTC

171 027 027 45 45
45632 17653 27362 74689 23412 07896 35121 30902 56473 89012
87321 54287 09351 35421 76352 73542 37654 97864 90865 47352
03622 17435 27435 68321 56289 20957 20873 73624 94638 03645
10923 20354 75609 27156 27909 25341 94563 46321 28374 09483
64532 37564 10956 37509 27843
027 027 45 45 00000

3681 kHz, 07-11, 1559 UTC

273 357 357 78 78
61726 87672 13683 68842 72 EEEEEEEEEEEEEEEEE pause, then resumes a bit off freq
i25 j 06238 57262 33212 80679
71652 64616 73589 44579 23816 01526 85873 59742 76482 54668
17773 85678 80827 38985 49772 77487 63859 85378 51211 36989
04348 57143 94853 18515 91543 58261 99867 52109 05117 48045
00796 04910 13295 34305 87048 69642 43735 83114 45116 25108
82502 30589 04806 70220 18647 47956 92866 60880 71547 22053
21229 92292 27326 63435 71950 90137 81325 11679 65603 71288
66843 15724 03161 03090 95202 59689 92847 60577
357 357 78 78 00000

4023 kHz, 08-11, 1600 UTC

273 357 357 78 78
61726 87672 13683 68842 72503 41612 06238 57262 33212 80679
71652 64616 73589 44579 23816 01526 85873 59742 76482 54668
17773 85678 80827 38985 49772 77487 63859 85378 51211 36989
04348 57143 94853 18515 91543 58261 99867 52109 05117 48045
00796 04910 13295 34305 87048 69642 43735 83114 45116 25108
82502 30589 04806 70220 18647 47956 92866 60880 71547 22053
21229 92292 27326 63435 71950 90137 81325 11679 65603 71288
66843 15724 03161 03090 95202 59689 92847 60577
357 357 78 78 00000

9463 kHz, 07-11, 1306 UTC, i.p. with errors

77683 48073 20524 01929 12839 52459 29158 96879 37788 84709
10655 19152 90970 99110 21869 55152 90055 87...
801 10655 19152 90970 99110 21869 55152 90056 87099 10492 70847
77437 98523 =
295 30 801 537 24 =
44304 22306 35025 54360 67379 18438 69742 49794 10126 49183
41651 65776 99867 85229 49475 97465 94096 00044 65607 07089
80293 87738 19182 08168 00000

5240 kHz, 12-11, 2300 UTC / 5825 kHz, 13-11, 0000 UTC

376 025 025 30 30
34253 75648 07912 73546 25367 93521 64537 34218 93521 09362
92631 47864 35263 81527 93627 08734 26351 53421 04625 99465
74653 53421 8635 03564 73524 24312 75643 25634 75624 70689
025 025 30 30 00000

Note: group 23 was a 4-figure group in both transmissions.

4636 kHz, 14-11, 1820 UTC. Different repeats between brackets.

186 263 263 47 47 = =
24315 75648 94857 26353 17254 73673 18291 29364 18653 29374
74653 25318 02834 54653 (74653) 18524 94736 24351 72653 91634 27635
73652 73654 16253 28361 91872 83652 16243 64783 92763 (52763) 16253
25143 73654 28763 92763 53426 93827 16425 38271 93874 28716
16253 27653 18726 82763 16425 63524 17652
= = 263 263 47 47 00000

10423 kHz, 16-11, 1133 UTC, i.p.

058 694 694 50 50 = =
19564 25227 06651 67330 53591 99531 29008 33185 52712 41946
62897 50689 75347 04791 96072 64350 47708 12559 93160 83113
18603 04682 03245 87049 36605 40112 76540 79447 54269 37166
57327 20257 39087 47044 45346 01811 95868 84498 42839 52779
30237 64051 29422 81273 07928 15222 31975 93056 89566 75203
= = 694 694 50 50 00000

5430 kHz, 18-11, 0800 UTC / 5560 kHz, 18-11, 0900 UTC

171 121 121 56 56
45644 45646 81348 44564 24779 45456 32468 45313 15879 24566
56631 98763 65460 51212 53489 43179 55678 89731 38979 32465
64878 67894 32156 56489 56489 89789 56313 64987 54897 31189
56478 56789 32188 32489 23458 24878 32485 24589 32489 23458
89731 23122 32456 54231 21553 84763 32488 02121 03213 21022
31034 56450 31545 02458 81230 67312
121 121 56 56 00000

5240 kHz, 19-11, 2300 UTC / 5825 kHz, 20-11, 0000 UTC

376 121 121 56 56
45644 45646 81348 44564 24779 45456 32468 45313 15879 24566
56631 98763 65460 51212 53489 43179 55678 89731 38979 32465
64878 67894 32156 56489 56489 89789 56313 64987 54897 31189
56478 56789 32188 32489 23458 24878 32485 24589 32489 23458
89731 23122 32456 54231 21553 84763 32488 02121 03213 21022
31034 56450 31545 02458 81230 67312
121 121 56 56 00000

5430 kHz, 25-11, 0800 UTC / 5560 kHz, 25-11, 0900 UTC

171 121 121 56 56
45644 45646 81348 44564 24779 45456 32468 45313 15879 24566
56631 98763 65460 51212 53489 43179 55678 89731 38979 32465
64878 67894 32156 56489 56489 89789 56313 64897 54897 31189
56478 56789 32188 32489 23458 24878 32485 24589 32489 23458
89731 23122 32456 54231 2153 84763 32488 02121 03213 21022
31034 56450 31545 02458 81230 67312
121 121 56 56 00000

5240 kHz, 26-11, 2300 UTC / 5825 kHz, 27-11, 0002 UTC. Late start

376 354 354 42 42
46626 42621 42179 59175 62161 27954 62746 25627 62642 31975
41945 95432 51735 39752 09079 09750 29752 56752 19429 95797
17597 95795 97594 56346 12745 79576 56459 79456 57945 41626
52795 95175 97597 56564 57959 71790 19041 63426 14767 45567
46521 79541
354 354 42 42 00000

4636 kHz, 28-11, 1820 UTC

186 354 354 42 42
46626 42621 42179 59175 62161 27954 62746 25627 62642 31975
41945 95432 51735 39752 09079 09750 29752 56752 19429 95797
17597 95795 97594 56346 12745 79576 56459 79456 57945 41626
52795 95175 97597 56564 57959 71790 19041 63426 14767 45567
46521 79541
354 354 42 42 00000

4761 kHz, 29-11, 1920 UTC

748 354 354 42 42
46626 42621 42179 59175 62161 27954 62746 25627 62642 31975
41945 95432 51735 39752 09079 09750 29752 56752 19429 95797
17597 95795 97594 56346 12745 79576 56459 79456 57945 41626
52795 95175 97597 56564 57959 71790 19041 63426 14767 45567
46521 79541
354 354 42 42 00000

M22 - 4XZ

6607 kHz, 10-11, 1627 UTC

VVV DE 4ZX 4ZX = NO9A NR 471 SN GR 53 ==
NO6L QSL NR 36 / 47 ==
VVV DE 4XZ 4XZ = =
NO6L QSL NR 36 / 47 ==
ZT6N NR 171 TO NR 371 QQL ==
EC6W NR 671 PJ GR 04 ==
FP7Y NR 571 QC GR 03 ==
NO9A NR 471 SN GR 53 ==
NO6L QSL NR 36 / 47 ==
ZT6N NR 171 TO NR 371 QQL ==
EC6W NR 671 PJ GR 04 ==
FP7Y NR 571 QC GR 03 ==
NO9A NR 471 SN GR 53 ==
NO6L QSL NR 36 / 47 ==
ZT6N NR 171 TO NR 371 QQL ==
EC6W NR 671 PJ GR 04 ==
FP7Y NR 571 QC GR 03 ==
NO9A NR 471 SN GR 53 ==
NO6L QSL NR 36 / 47 ==
ZT6N NR 171 TO NR 371 QQL ==
EC6W NR 671 PJ GR 04 ==
FP7Y NR 571 QC GR 03 ==
NO9A NR 471 SN GR 53 ==
VVV DE 4XZ 4XZ = =
AR AR NW QTC 1 NR 671 = =
NR 671 PJ V RE1J 218101 BC6W GR 04 ==
BWBWB ZOEZR RCDIJ COZNS XHPCM MNOAW KQCIP ZMCWC WHSRB DODDJ
TRNNB NITKI TBCYL TULAF ZSWAA CZRTS STSDL CPQHI KXRLY BBYXT QUUAG
YHQCX YKTZP RPOMH LWJPA PBTTP ZXOEB XHXDX ENJHL DBBTR NYYJW TYTFR
BHENS HRXHC MEHYS NSZQG EGSFI RESRI IRGHL ZMEZR ==
NR 671 PJ V RE1J 218101 BC6W GR 04 ==
BWBWB ZOEZR RCDIJ COZNS XHPCM MNOAW KQCIP ZMCWC WHSRB DODDJ
TRNNB NITKI TBCYL TULAF ZSOAA CZRTS STSDL CPQHI KXRLY BBYXT QUUAG
YHQCX YKTZP RPOMH LWJPA PBTTP ZXOEB XHXDX ENJHL DBBTR NYYJW TYTFR
BHENS HRXHC MEHYS NSZQG EGSFI RESRI IRGHL D OEZR ==
NR 671 PJ V RE1J 218101 BC6W GR 04 == AR AR
VVV DE 4XZ 4XZ = =
VVV DE 4XZ 4XZ = =
AR AR NW QTC 1 NR 5TB1 = =
NR 571 QC V MM3C 218101 FP7Y GR 03 ==
FYFYF OAZIW FBNWT ULUPR YZOSO WFAAH GIYAUE POKER URJDS OCHRU
CCLRE OWXCC XLARU NXMQQ RRHHD XREGY PQIEW BIITW BFDX SSTBAB
DOGPW JQWL JAOXW XKLFW JSCSC XWL AQ QXIFB PZNGQ JLUFF OAZIW ==
NR 571 QC V MM3C 218101 FP7Y GR 03 ==
FYFYF OAZIW FBNWT ULIPR YZOO WFAAH GIKEAF POKER URJDS OCHRU
CCLRE OWXCC XLARU NXMQQ RRHHD XREGY PQIEW BIITW BFDX STBAB
DOGPW JQLWL AOXW XKLFW JSCSC XWLUQ QXIFB PZNGQ JLUFF OAZIW ==
NR 571 QC V MM3C 218101 FP7Y GR 03 == AR AR
VVV DE XZ 4XZ = =

M89 - Chinese military

4067//4847 kHz, 01-11, 1151 UTC, extremely fast CW

AR
MSG NR 004 CK 499 14 1101 1930
MSG NR 004 CK 499 .4 1101 1930 =
NUU4 NDND 667T TDA7 3T7D 4A5T 7DT3 5N6N (Cont'd)
AR (Return to R/S - 1210z)
Note: // sending a different roundslip

4067//4847 kHz, 03-11, 1644 UTC, i.p.

III 76DT UAU4 D347 563A 67U7 (Cont'd) AR K
NR 013 CK 499 14 1104 0030 =
NUU4 NDND 667T TDA7 (Cont'd) AR

4539 kHz, 07-11, 0037 UTC, i.p.

RMKS 62.4 TO 6280 K K
K K (0038z)
GA K K (0041z)
HR NR NR 3119/EX 0835 RMKS 6264 TO 6280 = =
VC/R8 AR
HR NR 3119/EX 0835 RMKS 6264 TO 6280 = =
VC/R8 AR K K
R R R R

4545 kHz, 07-11, 1841 UTC, i.p.

745U 43AT UA46 7AD4 DT5U N46T ... AR K
R QSL 0243 K
R U 7G NR K
HR U MSG GA K
RPT K. RPT K
R 7G GA K
U MSG GA K
R SE EEEEE R HR MSG GA
R GA K
R
GA K
R MSG NR 007 CK 409 83 1108 0900 RMKS 9011 TO 9013 K
R GA K
= = .3T4 TD6U UN.. (Cont'd)

9131 kHz, 08-11, 0824 UTC, i.p.

V UISD (x3) DE CBF (x2)
VV SVC GA HR SVC GA
NR 011 1700 RMKS 3120 6219/4542 = COMM/1.3/.79A/5312/6219 AR
NR 011 1700 RMKS 5312 TO 6219/4542 = COMM/1730/799A/5312/6219 AR
HR WK NR 31
V UISD (x3) DE CBF (x2)

9395 kHz, 08-11, 0827 UTC, i.p.

T5NU 574D U4N7 N6D7 74ND ...
III 7T4D AR K K K
K K
R QSL .80
RPT k
RPT K

7545 kHz, 15-11, 094 UTC, i.p.

DE FSJ8
VV BSC2 BSC2 K
R QSA ? K K
R IEC = 1023 K (Normally associated with exercise traffic)
R HR WK NR 209 K
R CY CY K
MSG NR 2031 CK 25 99 1115 1745 = RMKS 2334 TO 2305 K
= UT34 N7D5 U5T3 T65D U46N (Cont'd)
AR QSL ? K
R NR = 2031 AR K
R KP KP K

4115 kHz, 17-11, 1449 kHz, i.p.

R U GA K
R GA
R GA K
R R QSL 2308 K
MSG GA
NR 286 CK 221 02 1117 2210 RMKS 0049 TO 293. K
R =
67UN 55T7 U57U 5D3D 5T47 (Cont'd)
.. K
R RPT 12W = = ..5. U457 U457 AR K
R 2P GA = = U533 U6U7 (Cont'd) AR K
R RPT K
R R R HR WK NR 07 K
SK

4367 kHz, 19-11, 1122 UTC, i.p.

F NR 5404/EX CK 19 21 K
R BT Z2D8/RJ.0 AR =
Z2D8/R1.0 AR K
OK
R GA K
R GA K
R QSL 1924 K
GB

11082 kHz, 20-11, 0550 UTC, i.p.

A3UT 5ND6 47UN 5463 TAD7 6U5A (Cont'd)
III = A5NU 46D7 T3U6 7A3T (Cont'd)
AR K
R RPT PBL K (Other station also on this frequency)
R
RPT PBL K
RPT RPT PBL K
CY 5W ? K
PBL K
MSG NR 518 CK 200 59 1120 1345 RMKS 2529 TO 2120 K
RPT 1P 1W K
R RPT 1P 01W K
R RPT 1P 01W K
R HR RPT 1P 09W ... K EEEE
RPT 1P 01W K
R HR RPT 1P 01W = 65DA K
R RPT 1P 61W K
R RPT 1P 61W K
RPT
RPT
AS

VV K
VV K
VV K
R RPT EEEEE RPT 1P 61W K
R PSE QSL U MSG GA
AS
R
PSE QSL U MSG GA
AS
QR. T RPT 1P EEEE RPT 1P 61W K
RPT SU ILL U K
PSE QSL U MSG GA
PSE QSL U MSG GA K
PSE QSL U MSG GA
QSL 1414 K
U MSG GA
R QRQ
U MSG QRQ K
RR 7G NR 518 CK 200 59 1120 1414 RMKS 2120 TO 2529 AR K
R QRQ
RPT
R QRQ
RPT K K
GA
R R QTEEE QRQ = =
65DA N37T U463 74T5 DNAU 3546 7DNT AU34 UA56 (Cont'd)

4193 kHz, 21-11-2017, 1219 UTC, i.p.

7T4U N54T U5D6 U74D 5N7D (Cont'd) AR K
R QSL 2024 K
R OK
HR MSG GA K
R GA K
R MSG
NR 97.3 CK 200 58 1121 2... RMKS 8919 TO 8924 K
R GA K
R 1P =
64UA 4A36 NU36 547D UNA4 AU67 A54T DAT7 7NU6 ND53 A3U6 (Cont'd)
HR 1P 3W = AD47 7DU5 46U7 AN6U (Cont'd)
III 2P = 6A5D 76TN AU3D 453D (Cont'd) AR K
R R Q EEE R QSL 2039 K
OK K
VV VV

5682 kHz, 21-11, 1114 UTC

AR K
R RPT NR NR 4231 16.. 50 1906 K
R QSL QSL 1914 K K
R K
QSL 1914 K
K K
R R R HR WK NR .45. K
R R HR WK NR 4.. K
K NR NR ... K
SK GB GB

5696 kHz, 21-11, 0834 UTC, i.p.

R MSG GA CY K
GA (Both stations on this frequency)
R MSG NR 038 CK .. 05 1121 1..0 RMKS 6280 TO 6283 TO 6218 TO 6245 TO 4315 TO 43.. TO .386 K
R GA
= = 7N.. .D3U 543U D463 7D53 5D6U 4D63 6DUA AN73 DD53 (Cont'd)
AR HW WK NR 125 125 K
R QSL 1637 1637 HR WK NR 12. 325 K
R OK SK
RPT NR K
NR 058 CK 35 15 1121 1.00 RMKS 6280 TO 6283 TO 6218 TO 6245 TO 431. TO 4352 TO 4386 K K
R GA K
N = = 7NDA 4D3U 543U D463 7D53 5D6U 4D63 6DUA (Cont'd)
AR HR WK NR 325 325 K
R ...64..
NOK SK
YSDB YSDB DE 4SXA 4XSA K
R R QSA 2 ..
QSA 2 K
R R OK

10312 kHz, 27-11, 0725 UTC, i.p.

KJA5 DE M3FA V
R DE 8L QSA 2 K
N QSA 2 K
AS
VV GKU8 K
V UHIU K
V 5PTG K
HR CQ MSG GA
HR CQ MSG GA
MSG NR 174 CK 60 45 1 EEEEE
MSG NR 173 CK 60 08 1127 1530 RMKS CQ = =
A37U DU5T 6DAN D6A3 T4U3 DA7T 7T5U T637 T3AU 7DN4 (Cont'd)
AR

4432 kHz, 28-11, 1307 UTC, i.p.

N47T A665 5DN7 A4DU
AR K K
R RPT K
R RPT 07 MD.00W = ED7TA U7U634 N47T ND7T .3U7U (Cont'd)
AR K K
R RPT 15W = 7... AR K K (Cont'd repeat groups)
QSL 2113 2113 K
R QSL ?
R RPT 14W = ND37 AR K K (Cont'd repeat groups)
R 7G GA K

10547 kHz, 29-11, 0846 UTC, i.p.

AGN
VV GKJS DE GMJS K
VV GKJH DE G
VV GKJH DE GMJS R
DE GJS K
VV J8MX DE GMJS K
R GN5U DE U
V40RW DE GMJS K
VV 40RW DE GMJS K
VV DPU6 DE GMJS K
VV DPU6 DE GMJS K
R QSA 2 IEC = 3858 AR K

R QS 1 ... (Very weak)
...022 AR
R
R HR WK NR 230 K
...NR 062 K
VV DIOV DE GMJS K
VV DIOV DE GMJS K
R QSA 2 IEC = 5022 K
K K
IEC 5022P EEEE IEC = 5022 AR K
R HR WK NR 230 K
R HR KP U K
VV B1RT DE GMJS K
R GN5U DE 8KVZ R QSA 2 QSA ? K
AGN
R GN5 EEEEE
R GN5U DE 8KVZ R QSA 2 QSA ? K
R GN5U DE 8KVZ R QSA 2 QSA ? K
R GN5U DE 8KVZ R QSA 2 QSA ? K
R QSA 2 IEC = 2526 AR K
R = 4082 AR K
R = 4082 AR K
IEC = 2526 AR K
R K
R = 8240 AR K
HR WK NR 230 K
AGN
VV 4SVU DE GMJS K
...QSA 2 QSA? K
R QSA 1 K
R HR WK NR 230 K
HR WK NR ...8. K
R HR KP U K
VV F2MR DE GMJS K
..4U DE .42 R QSA 1 QSA ? K
R QSA 1 K
HR WK NR 230 K
R HR WK NR 0.. K
AGN
R HR WK NR 0913 K
R HR KP U K
R

M95

58011/1080 kHz, 01-11, 1113 UTC. Message format indicates M95 family

V DKG6 (x3) DE 3A7D (x2)
MSG GA
NR ..04/CCK CK 199 21 1101 1910 RMKS RMKS 6354 TO 6604 65.4 6664 6.44 6384 = =
RNA6 UDUD TUN3 3N5N 4U7A D546 (Cont'd)
AR QSL ? ... 20 K
V DKG6 (x3) DE 3A7D (x2)
NR .2 NR 00192.. CK 667. =
CL/2.89/./ 4..6671 = RMKS NR ..
COMM/2187../..../ = =

5801//10180 kHz, 04-11, 0925 UTC, i.p.

VV SVC GA
NR 018 ... 0891.6354 TO 6564 =
CL/1800/E ZBT/0474/6564 AR QSL?
HR WK NR 220
V DKG6 (x3) DE 3A7D (x2)
VV HR SVC GA
NR 019 1730 RMKS 354 TO 6804 =
COMM/1800/XZ479/90/6357/6804 AR QSL?
HR WK NR 220
V DKG6 (x3) DE 3A7D (x2)

5801//10180 kHz, 03-11, 1123 UTC

V DKG6 (x3) DE 3A7D (x2)
VV HR SVC GA
NR 0405 1930 RMKS 05354 TO 6501 =
CL/2000/Z.A474/6501 AR QSL ?
HR WK NR 220
V DKG6 (x3) DE 3A7D (x2)

5801//10180 kHz, 05-11, 0938 UTC

V DKG6 (x3) DE 3A7D (x2)
VV HR MSG GA
NR 021/CCK 99 19 1105 1810 RMKS 6354 TO 6385 6541 6574 6578 6671 =
N67D A73A AU43 5U7D N56A NAU6 73U4 UAD3 DU63 ND65 (Cont'd)
AR QSL ? HR WK NR 10
V DKG6 (x3) DE 3A7D (x2)
HR SVC GA
NR 009 1830 RMKS 6354 TO 6574 = CL/1900/ZBT/A474/6574 AR
QSL ? HR WK NR 10
V DKG6 (x3) DE 3A7D (x2)
SVC GA
NR 110 1930 RMKS 6354 TO 6570 = CL/2000/ZBT/A474/6570 AR
QSL ? HR WK NR 10
VVV HR SVC GA
NR 111 2030 RMKS 6354 TO 6578 = CL/2100/ZBT/A474/6578 AR
QSL ? HR WK NR 10
VV HR SVC GA
NR 025 2030 RMKS 6354 TO 6875 68911 = COMM/2100/XZ479/92/6357/6875 AR
QSL ? HR WK NR 10
V DKG6 (x3) DE 3A7D (x2)
VV HR SVC GA
NR 111 2030 RMKS 6354 TO 6578 = CL/2110/ZBT/A474/6578 AR
QSL ? HW WK NR 10
V DKG6 (x3) DE 3A7D (x2)

5801//10180 kHz, 0808 UTC

V DKG6 (x3) DE 3A7D (x2)
VV HR SVC GA
NR 1251 0530 RMKS 6354 TO 8979 = CL/1700/Z=/A474/8979 AR
QSL ? HR WK NR 22 K
V DKG6 (x3) DE 3A7D (x2)
VV HR SVC GA R EEEE
VV SVC GA
NR 1205 1730 RMKS 6354 TO 6892 = CL/1800/Z=/A474/6802 AR
QSL ? HR WK NR 22
V DKG6 (x3) DE 3A7D (x2)
VV HR SVC GA
NR 029 1800 RMKS 6354 TO 6539 / 6524 = COMM/1830/..479/90/6357/6539 AR
QSL ? HR WK NR 22

V DKG6 (x3) DE 3A7D (x2)
VV SVC GA
NR 127 1830 RMKS 6354 TO 6816 = CL/1900/Z=/A474/6816 AR AGN
NR 127 1830 RMKS 6354 TO 6816 = CL/1900/Z=/A474/6816 AR
QSL ? HR WK NR 33
V DKG6 (x3) DE 3A7D (x2)

3642 kHz, 07-11, 1413 UTC

V DKG6 (x3) DE 3A7D (x2)
VV HR MSG GA
NR 028/CCK CK 91 62 11072200 RMKS 6354 TO 6570 =
353U 6D36 UA.. UA6N DU4A D4DU (Cont'd)
AR QSL ? HR WK NR 220 K EEE HR WK NR 220
V DKG6 (x3) DE 3A7D (x2)

5801//10180 kHz, 07-11, 1206 UTC

V DKG6 (x3) DE 3A7D (x2)
VV HR SVC GA
NR 027 2100 RMKS 6354 TO 6501 / 6524 = CL/2130/Z=/6354/6501 AR
QSL ? HR WK NR 32
V DKG6 (x3) DE 3A7D (x2)
VV HR SVC GA
V DKG6 (x3) DE 3A7D (x2)
NR 028 2110 RMKS 6354 TO 6570 / 574 = CL/2200/Z=/6354/6570 AR
VV HR SVC GA
NR 149 2130 RMKS 6354 TO 6843 = CL/2200/Z= /A474/6843 AR
QSL ? HR WK NR 220
V DKG6 (x3) DE 3A7D (x2)

3642//7602 kHz, 07-11, 1610 UTC

V DKG6 (x3) DE 3A7D (x2)
VV HR SVC GA
NR 152 0030 RMKS 6354 TO 6778 = CL/0100/Z=/A474/6878 AR
QSL ? HR WK NR 220
V DKG6 (x3) DE 3A7D (x2)

5801//10180 kHz, 07-11, 0931 UTC

V DKG6 (x3) DE 3A7D (x2)
VV HR SVC GA
NR 034 1800 RMKS 6354 TO 6897/6564 =
COMM/1830/XZ479/90/6357/6897 AR
QSL ? HR NR 22
V DKG6 (x3) DE 3A7D (x2)
VV HR SVC GA
NR 146 1830 RMKS 6354 TO 6894 = CL/1900/Z=/A474/6894 AR
QSL ? HR WK NR 37]
V DKG6 (x3) DE 3A7D (x2)
VV HR SVC GA
NR 147 1930 RMKS 6354 TO 6685 = CL/2000/Z=/A474/6685 =
CLS/2000/Z=/A474/6685 AR
QSL ? HR WK NR 220
V DKG6 (x3) DE 3A7D (x2)
VV HR SVC GA
NR 035 2030 RMKS 6354 TO 6589 /6560 / =
COMM/2100/XZ479/92/6357 EEEE =
COMM/2100/XZ479/92/6257/6589 AR
VV HR SVC GA
NR 148 2030 RMKS 6354 TO 6844 = CL/2100/Z=/A474/6844 AR
QSL ? HR WK NR 220
V DKG6 (x3) DE 3A7D (x2)

5801//10180 kHz, 08-11, 0757 UTC

V DKG6 (x3) DE 3A7D (x2)

COMM/1630/XZ470EEE =

COMM/1630/XZ479/90/6357/8.11 AR

QSL ? HR WK NR 10

V DKG6 (x3) DE 3A7D (x2)

VV HR SVC

VV HR 7G GA

NR 030/CCK CK 299 19 1108 1600 RMKS 6354 TO 6671 6.1. 6629 6834 65.4 =

DAN4 3567 3A4T DTD6 U4U6 7D3A 474A 6TUN 356N D4T5 UAUT N4TU TN7U (Cont'd)

(Message header sent by hand while message was machine sent. Having problems with machine sending message - all garbled)

AR

QSL ? HR WK NR 10

V DKG6 (x3) DE 3A7D (x2)

10999 kHz, 13-11. 0848 UTC, i.p.

IEC = W3 AR K

R IEC = YE AR K (Normally associated with exercises - Normal 4 numbers)

R HR NR 65 K (Both stations on this frequency)

R HR NR 125 K K

R HR EEEEE U 7G GA K

R HR MSG NR 38/JC CK 94 91 1113 1525 RMKS 2082 TO 0942 TO 0943 TO 8184 TO 20A EEEEE

RMKS 2082 TO 0942 TO 0943 TO 8184 TO 2082 K K

R GA K (First time I've seen /JC in message header format) (Only similar format is used by M95 stations /CCK)

R = =

D57A 736T 4NUA 5DD7 565A 4TN6 DA53 UN6T TA63 TTT3 D7D3 (Cont'd)

AR K

R QSL 1655 K

R HR 7G GA K

R GA K K

R 7G NR 75/CCK CK 56 86 1113 1656 RMKS 2082 TO 8180 K

R GA K K

R = =

D5NA 573N 7TU3 54UT ATD6 34U6 3DU7 UN34 TAN3 TTT6 5NT7 (Cont'd)

AR K

R RPT 20W K K

R 21W EEEEE 20W = = DT3W ?? DT3A AR K

R RPT 29W K K

R 29W = = TU? TDAU AR K

R QSL 1702 K K

R U MSG GA K

R HR 7G NR 75/CCK CK 56 86 1113 1703 RMKS 8184 TO 2082 K K

R GA K

R = =

D5NA 573N 7TU3 54UT ATN6 34U6 3DU7 UN34 TAN3 TTT6 5NT7 (Cont'd)

AR K

R QSL 1705 K

R R HR 7G GA K

R GA K K

R 7G NR 76/CCK CK 93 86 1113 1706 RMKS 2082 TO 8184 K

R GA K K

R = =

3TDU U574 TNA3 5D7A 4D36 35TA NU43 4DAD TA6A TT3N 36TU (Cont'd)

AR K

R RPT 40W K K

R 40W = = N34A AR K

R RPT 55W K K

R 55W = DTU6 AR K

R RPT 72W TO 73W K K

R 71W TO 72W = = 4653 755A AR K

R RPT 73W K K
R 73W = 7UNA AR K
R QSL 1714 K K
R U MSG GA K
R HR 7G NR 76/CCK CK 93 86 1113 1715 RMKS 8184 TO 2082 K K
R GA (Both operators very good CW ops)
R = =
3TDU U574 TNA3 5D7A 4D36 35TA NU43 4DAD TA6A TT3D 36TU (Cont'd)
AR K
R QSL 1720 K
R SK
R SK GB

4243 kHz, 16-11, 1148 UTC, i.p.

HR MSG TO YR PSE CY
NR 066 CK 34 35 1116 1515 =
5TD UTT TA6 3U6 7TA N44 3A4 354 373 4TN
N3D 4TA U7U N4A 435 3DA 33U 34T N3U 447
46D 3D3 TTU TT3 773 447 3D3 33U 34T N3U
44D 46N 3D5 4D3 AR
MSG AGN
NR 066 CK 34 35 1116 1515 = (Repeats message) AR
HR MSG GA
NR 32 CK 221 35 1116 1605 =
UTU TA6 3U6 3A4 7TU 7TA 7T7 73U 33U 7UT (Cont'd) AR)
MSG AGN
NR 32 CK 221 35 1116 1605 = (Repeats message) AR
A HR MSG GA
NR 019 CK 22 35 1116 1655 =
UT5 TA6 3U6 3A4 TTA TTU TT3 773 357 75D
373 4TN 446 33U N3D 4TA 44D 46N 4D6 3DU
N3D 3D5 AR
MSG AGN
NR 019 CK 22 35 1116 1655 = (Repeats message) AR
A HR MSG GA
NR 020 CK 15 35 1116 1702 =
UT5 TA6 3U6 7TA TTA TTU TT3 773 5TN 446
33U N3D 4TA 44D 46N AR
MSG AGN
NR 020 CK 15 35 1116 1702 = (Repeats message) AR
A HR UP SB WK

4364//8073 kHz, 16-11, 1143 UTC

V BNGC (x3) DE XSV85 (x2)
HR MSGS GA PSE CY
NR 1080 CK 409 35 1116 1615 =
TA6 3U6 3AN 3U7 TAU 773 353 4T3 (Cont'd)

4243//9054 kHz, 19-11, 1204 UTC, XSV70 i.p.

446 NAD 33N N3U 447 ... AR
7G AGN
NR 38 CK 159 35 1119 1600 =
UTU TAN 3U6 3A4 TTU 773 354 N3D 35U (Cont'd) AR
A HR MSG GA
NR 033 CK 15 35 1119 1633 =
UT5 TAN 3U6 3A4 TTA TTU TT3 773 356 4TA
N3D 4TN 445 4D6 3DA AR
MSG AGN
NR 033 CK 15 35 1119 1633 = (Repeats message) AR
A HR UP SB WK

4364//8073 kHz, 19-11, 1156 UTC, XSV85 i.p.

AR
A HR MSG GA
NR 1103 CK 34 35 1119 1554 = =
TAA N5U TAN N53 TAD N54 7TT TT6 746 7T5
77T DN3 7T7 TAU 773 TA7 773 TAD 773 TAN
773 TUT 773 TU3 773 TU4 773 TU5 773 7AN
7AD N47 3AN 7U5 AR AR
A HR MSG GA
NR 1104 CK 54 35 1119 1604 = =
TAA N5U TAN N53 TAD N54 7TT TA3 746 6TU (Cont'd)
AR AR

4789 kHz, 19-11, 0139 UTC, i.p.

R HR
MSG NR 121/CCK CK 200 85 1119 0937 RMKS 5426 TO 2190 K
R OK GA K (Other station also on this frequency)
= = DUN7 53A4 6T73 5T4D NAU6 NT7D 4U56 (Cont'd)
AR K
R OK QSL 0944 K
R NIL SK HW ? K
SK GB GB

4364//8073 kHz, 20-11, 1140 UTC, i.p.

V BNGC (x3) DE XSV85 (x2)
HR MSGS GA PSE CY
NR 1108 CK 324 35 1120 1602 =
TUT 3U6 3AN 3U7 TAU 773 (Cont'd)

4243//9054 kHz, 20-11, 1148 UTC, i.p.

HR 7G TO YR PSE CY
NR 074 CK 19 35 1120 1528 =
5TD UTT TUT 3U6 3A4 35U 4A5 N3D 4AA U7U
N44 434 3DA TTU TT3 773 446 3DU .D6 AR
A HR 7G GA
NR 40 CK 163 35 1120 1602 =
TU TUT 3U6 3A4 TTU 773 35A N4D (Cont'd) AR
A HR 7G GA
NR 036 CK 22 35 1120 1620 =
UT5 TUT 3U6 3A4 TTA TTU TT3 773 356 4A4
435 33U N3D 4AA 436 467 4D6 N3D 4D3 3DA
N3D 3D3 AR
A HR UP SB WK AR AR

4243 kHz, 21-11, 1147 UTC

HR VV HR MSG TO YR PSE CY
NR 076 CK 31 35 1121 1500 =
5TD UTT TUA 3U6 7TA N44 3A4 353 N3D 354
4AA N3D 4TA U7U N4A 445 3DA 336 N3U 446
3DU TTU TT3 773 446 3D3 336 N3U 447 3D4
4D3 AR
MSG AGN
NR 076 CK 31 35 1121 1500 = (Repeats message) AR
A HR MSG GA
NR 42 CK 179 35 1121 1605 =
UTU TUA 3U6 3A4 TTU 773 35A N3D 353 4AA (Cont'd) AR
MSG AGN
NR 42 CK 179 35 1121 1605 = (Repeats message)
AR (1212z) (Missed next message)
MSG AGN

NR 0.9 CK 26 35 1121 1646 =
UT5 TUA 3U6 3A4 TTA TTU TT3 773 354 U4T
354 4AA 436 467 346 N3D 4TA 447 34A DA5
N34 446 4D6 3D3 N3D 3DU AR
A HR UP SB WK AR

4243//9054 kHz, 24-11, 1146 UTC

A HR MSG TO YR PSE CY
NR 082 CK 22 35 1124 1440 =
5TD UTT TU4 3U6 7TA N44 3A4 356 4A5 N3D
4AA U7U N4A 446 3DU TTU TT3 773 447 46D
3D4 4D6 AR
7G AGN
NR 082 CK 22 35 1124 1440 = (Repeats Message) AR
A HR 7G GA
NR 48 CK 182 35 1124 1635 =
UTU TU4 3U6 3A4 7TA 7TA NU6 736 777 73U (Cont'd) AR
7G AGN
NR 48 CK 182 35 1124 1635 = (Repeats message) AR
A HR MSG GA
NR 048 CK 24 35 1124 1703 =
UT5 TU4 3U6 3A4 TTA TTU TT3 773 353 U4T
354 4AA 446 467 34U DA5 N34 445 4D6 N3D
4D3 3D3 N3D 3DA AR
7G AGN
NR 048 CK 24 35 1124 1703 BT (Repeats message) AR
A HR UP SB WK AR

4364//8073 kHz, 24-11, 1141 UTC

V BNGC (x3) DE XSV85 (x2)
HR MSGS GA PSE CY
NR 1124 CK 277 35 1124 1543 =
TU4 3U6 3A. 3U7 TAU 773 TA7 773 357 (Cont'd)

10180 kHz, 24-11, 1001 UTC

VV HR SVC GA
NR 119 1800 RMKS 05354 TO 055053 = COMM/1830/1830/OUZ/1200/90/053 570/65053 AR
QSL ? HR WK NR 220

UM03 – Chinese X2M net

7920//8250//8410 UTC, 15-11, 0932 UTC, i.p.

AR
ZOM15
CQ (x3) DE X2M (x2) VVV (x3)
MSG MSG ENG ENG
CQ (x3) DE X2M (x2) VVV (x3)
MSG MSG ENG ENG
MSG ENG
01 01 CK 100 CK 100 TIME 1632 TIME 1632 DATE 1511 DATE 1511 =
546UN 6UNT7 4TA75 6573A T4A6D (Cont'd)

8261 kHz, 15-11, 0937 UTC, i.p.

MBVQZ AR W ?
VA
QSL .. K
MSG NR 13 NR 13 D5L =
HOHON = =
LADTE VVEYNP KNQIK TILAC L.GV XMPEY WYNQF (Cont'd)

7658 kHz, 20-11, 1036 UTC

NR NR 380 380 CK CK 50 50 DATE DATE 21 21 21 R 11 TIME TIME 17R30 17R30 =
DFUJM BDSVE WO.VR P.A.V TNCEW GIPHT (Cont'd)
AR
DATE DATE
OK QSL DATE O ..

4341 kHz. 24-11-, 1133 UTC, i.p.

33 R1133 24R11 24R11 18R30 18R30 =
GVVPE YHKTI KRR.. (Cont'd)
ZNN K
QSL . 7 D.. (Other station also on this frequency)
GA
820 810 CK .. 50 DATE 2411 .. 1 TIME .835 .. 35 = =
G.PE YHK.. (Cont'd)
R QSL OK QSL ...

8250 //8410 kHz, 27-11, 0735 UTC, i.p.

TIME 1435 TIME 1435 DATE 2711 DATE 2711 =
KNCET CFUWL ...

7920//8250//8410 kHz, 29-11, 0928, i.p.

Also //8282 kHz

Also //8230 kHz

AR
ZOM15
CQ (x3) DE X2M (x2) VVV (x3)
MSG MSG ENG ENG
CQ (x3) DE X2M (x2) VVV (x3)
MSG MSG ENG ENG
MSG ENG
81 81 CK 100 CK 100 TIME 1631 TIME 1631 DATE 2911 DATE 2911 =
T6A7U 6U73D U4T5A 6D34T N5UD6 73A4T 3A4TN A7354 6A4UD (Cont'd)
KNCFU WRJXA (Cont'd)
VA
AR W
VA

5250 kHz, 29-11, 1326 UTC, i.p.

DE CSJ QSL 10W FM K
DE .XK 10WF
BT QKPAY NOEOR VKXEG SWXOV VCEFB (Cont'd)
AR
ZNN K
DE CSJ QSL ENG
NR 79 79 20 20 2911 1904 1904 = =
SWMVO XDXWT GAMXJ FDDJS JDSUR GSYHK OJZDC FRUYN UTBCE ANURI
XALXB IGYES SFJXD ODPZL ZEAKB III 15W QBK
NR 80 80 ..20 2911 2911.020 320 2003 2003 ? 2003 = =
TSICN IDKQH HAOTZ (Cont'd)
AR
DE PXX QRV W? QSL 15W FM K
DE CSJ 15W FM =
ZEAKB NFKN. (Cont'd)
AR ZNN K
DE PXX E QSL QRX 2320 K
DE CSJ OK QRX 2120 VA K
DE PXX VA

UM10 - 10-minutes net

6849 kHz, 16-11, 0622 UTC XD3F (new callsign and freq)
6849 kHz, 16-11, 0645 UTC XD3F
6825 kHz, 16-11, 0645 UTC EDLJ (new callsign and freq)
6825 kHz, 19-11, 0755 UTC EDLJ
3776 kHz, 30-11, 1924 UTC A4JC Previously heard on 3772kHz in the 10-20 time slot

DIGITAL MODES

F01, F06, F06a, M42, M42a, M42b & X06 - Russian Government & Intelligence

M42 – various modes

10157 kHz, 13-11, 1154 UTC, CW

RGP RGP RGP de UCU UCU QSY 17470 QSY 17470

16156 kHz, 23-11, 1334 UTC, CW

Russian diplo clg UAL. QSX: 18726 kHz

15997 kHz, 23-11, 1402 UTC, Baudot 75/500

Header 11100 70103 95732 23126 04009. QSX: 14746 kHz

Check the Logs Section for all the logs.

M42b – FSK 50/500

4543 kHz, 02-11, 1914 UTC, FSK 50/500

528 209 2 1900 6248 = 99259 88206 71420 36602 62120 ... 90034 =50=

F01 – FSK 200/500

9247/7762/5216 kHz, 04-11/11-11/18-11/25-11, 1810/1820/1830 UTC

Russian diplo/intel. Null message:)5761 00000+++++++162

8172/6791/4546 kHz, 01-11, 1940/1950/2000 UTC

53448 61580 00736 90984 66308 82908 51213 15965 48419 64615
34726 99563 56277 31071 51169 68118 47884 36375 00686 26466
45534 29532 68308 24283 73550 16996 14005 28770 18703 75825
97178 81735 16307 42654 41059 94808 86866 03298 05732 30795
35030 67463 90842 25208 22442 59753 29667 63535 36403 26458
50180 27513 68880 95491 49346 00824 23792 91010 85672 28379
01757 02580 01122 94766 07712 45819 10988 70165 08953 73953
02034 96716 41702 07357 94175 59968 65933 41586 36329 22480
14783 28363 20094 21691 66241 09729 72621 83672 30748 19219
86602 25476 39828 66565 36594 64890 48440 79140 12412 69411
32777 85410 83824 48184 56530 84506 44751 95068 33426 06351
16781 28698 00157 92171 60840 27582 33984 47368 27468 81509
84524 18136 91815 71212 13524 44963 30793 98153 12855 78940
64535 80034 00902 89560 63727 47676 71993 73945 78889 27223
89070 28084 62779 58773 91654 24178 38258 11725 70696 57014
83115 70491 85453 34130 76242 36888 91985 87879 43017 25116
01056 50610 66032 30021 00540 74973 66914 51370 04358 92961
17543 43455 53383 26901 23439 76206 33796 71416 48971 85985

03881 68863 03842 49081 86686 85363 06524 95470 64620 93018
74971 72809 99565 70343 98404 10582 17237 78464 84473 38394
88450 48074 41060 43486 50214 17860 20570 27661 17427 64499
45989 44848 64064 64751 54618 86530 67072 64762 24407 94739
44788 70215 33818 20323 69255 00093 61098 48616 83561 35208
49414 85382 79176 87287 67356 51853 52236 00000

Triple timestamp: (October) 31, 2017, 1140 MSK

10673/14398 kHz, 21-11, 0210/0310 UTC. F01 instead of E06.

10673/14398/17456 kHz, 22-11, 0210/0220/0230 UTC

93170 20326 13017 31308 73132 40078 18825 32196 19923 01318
39100 92150 53493 42742 37036 _____ 13040 03924
78017 70012 78481 92513 92229 19175 23683 59891 58136 04637
84829 05809 43608 86332 39498 82667 08293 25660 85479 08410
61789 45097 82597 94336 96523 61349 62200 11321 12528 77965
34010 42819 76294 48377 45035 98156 80900 45269 70206 84487
95909 72503 94114 60891 50008 78735 30871 23036 11250 63991
84730 91843 60945 81286 17924 04597 24546 28064 43626 31924
54003 33098 25799 69105 78030 76555 23257 75124 91137 03904
02964 57921 73614 94607 27257 29263 59673 71546 44691 77693
95905 62092 39173 32973 57272 46786 17089 20475 12794 56547
37113 28946 58137 04356 12369 40094 57286 62348 39647 93425
60477 20260 35368 84771 90596 86146 82952 21949 15219 15338
21328 85982 46478 78543 29214 71337 35963 05061 84914 03581
56810 62019 06273 57940 _____
_____ 46085 13648 33677 81236 62873 49056 89031
54570 37247 _____ 27522 46138
59035 79586 72452 61266 22527 13524 10776 27224 79760 15742
_____ 16845 37341 96548 17353
75895 19661 10970 40973 38587 91144 33799 58634 26789 43235
07769 86605 09897 38226 95889 72635 65111 29377 75761 36232
22570 05338 55453 16853 50033 32332 78170 65933 56811 92529
07858 43713 21614 42047 12968 06776 74010 37017 90542 97250
76034 67381 67985 09498 30349 30184 77885 37168 53208 35270
98575 23469 31662 08243 00000

14658/17433 kHz, 22-11, 0925/0935 UTC

86336 62631 43762 97728 39386 34997 80794 53679 41729 91041
21168 15074 05655 39657 36479 21594 32590 40549 34993 49226
30474 97820 03202 37155 34176 11959 83506 80227 06690 70474
35779 46699 53846 40011 15076 28053 23432 81665 31702 78161
18804 77443 13042 00000

Link 00017 via Cuba

20741/18702 kHz, 03-11, 2230/2240 UTC

Header: 11177 00116 52784 03044 01419

F06 – FSK 200/1000

Unid link

13397 kHz, 15-11, 0957 UTC, i.p. Ends with 59706 06987 38257 00000

20476/18915/16238 kHz, 08-11/09-11, 0900/0910/0920 UTC

11166 00052 14683 24021 01749
44490 26134 41856 22078 55117 84829 65494 40426 77599 76201
00382 97356 59417 83082 93017 87223 98371 43834 29347 32388
17198 42318 61901 42897 83670 70678 74802 25469 74597 50683
84904 79879 44381 23260 97714 44015 98873 39733 34762 18760
32324 39556 73454 73913 10161 63294 46365 88691 53667 91973
00630 20845 14839 71585 73900 80798 75693 67010 01776 96339
41843 68644 74794 83343 76088 83299 24838 72710 12385 48056
37111 30529 13561 99903 11526 58583 58297 83977 04703 26833
38696 20888 65144 09098 15168 43491 08301 09113 28058 73852
60358 47615 59188 24005 33524 19058 33217 25061 22535 09322
19578 94059 79134 31870 53446 11001 02789 04686 18071 75367
49596 87693 23946 01135 74148 82300 58296 95039 68039 34790
09252 90036 23847 48707 45369 81715 97623 71332 03347 50221
30114 64895 62688 11521 34353 34596 08157 79092 51996 85399
19498 44597 74015 48032 03197 08835 74888 71231 78429 60686
10011 18285 09733 91836 67409 67598 53205 27392 15955 39583
74488 04947 96409 23575 29270 36385 16924 23405 81864 27744
21567 44390 21172 00000

6773 kHz, 07-11, 1520 UTC

11166 00052 75391 07031 00049 00000 00000 00000 00000

8164/6773 kHz, 14-11, 1510/1520 UTC

11166 00052 46291 14099 00049 00000 00000 00000 00000

10844/8164/6773 kHz, 14-11, 1500/1510/1520 UTC

11166 00052 35789 21025 00049 00000 00000 00000 00000

20476/18915/16238 kHz, 22-11/23-11, 0900/0910/0920 UTC

11166 00052 83627 21022 02229
67260 49831 52856 34313 78987 07526 76494 52761 90369 99908
11382 09691 16388 57291 24449 78825 87765 41641 72239 81175
70672 83331 45702 96338 17823 82584 01924 57125 62151 33575
74651 46719 57636 43089 36894 64615 38770 28108 20566 25169
23225 91509 78948 57827 82680 27161 16652 19900 24972 94959
51648 10308 72413 26503 51709 71139 14569 27390 95887 71636
08019 54541 29081 02241 06157 32697 09916 44163 60305 69498
52167 63545 27643 00636 22762 69251 97689 43709 10084 73654
38427 23490 90385 04446 90375 58032 97950 62762 64372 98250
50579 54078 29034 34969 51834 25991 67849 21243 23872 91581
60531 86281 35827 79934 80515 92580 20366 53128 75231 96300
82196 82793 78558 71503 53788 04897 39169 57023 78733 64622
27889 66489 33479 80263 92311 72971 59764 95806 51128 61320
53150 98176 91380 72545 16879 57891 77780 93356 82751 91228
29878 75391 15022 23038 89193 42614 64835 71295 05156 06401
81849 39995 19271 07154 34914 73389 58207 60479 03826 01839
15636 72622 34670 55462 81195 04726 57349 06853 89906 33622
44207 01014 62640 83272 70036 22896 80878 04715 26435 10519
21057 96611 08237 10510 37341 47606 37483 89140 51331 06367
05407 77361 76080 98896 74358 82754 13712 25607 98864 75674
71661 23824 86047 75485 67545 84139 81345 61247 71003 46858
44945 99874 00361 23894 13659 22165 67312 21425 96463 92818
22220 00000

Note: The 4th group in the triple timestamp has 12345 added to it this time. On this sked, this group is usually 22078

10844/8164/6773 kHz, 28-11, 1500/1510/1520 UTC
11166 00052 12489 28025 00059 00000 00000 00000 00000

Link 10031

20349/18573/16245 kHz, 08-11, 1015/1025/1035 UTC
11166 10031 16537 08001 00049 00000 00000 00000 00000

20349/18573/16245 kHz, 22-11, 1015/1025/1035 UTC
11166 10031 35791 22001 00049 00000 00000 00000 00000

Link 10053

10644/8159/7438 kHz, 05-11/06-11, 1530/1540/1550 UTC
11166 10053 58429 03062 01589
66672 83839 35492 54585 46496 31515 87287 28521 73112 60094
47158 32671 84348 90413 45825 09309 65563 92820 38893 87483
77163 77880 83890 95242 97235 37439 49056 14433 49384 22021
58654 76832 10195 94181 32355 63966 85650 38554 96025 29741
02500 40576 98115 68460 28752 20312 13710 16376 11107 38599
78532 13794 63159 48669 85577 59955 73241 41584 45185 30340
20606 02608 19499 64056 43404 17271 61987 49296 70452 81842
26715 67787 11934 24250 32724 27999 72441 05539 53534 26633
44881 92143 68112 28492 96155 18600 64342 40429 81475 29327
19786 18524 83597 47339 84756 37818 96474 50849 42464 47667
71148 80529 79471 79579 66286 97234 61791 57101 59205 21774
39701 24764 84894 33032 61422 00325 91946 78220 02546 10652
80148 05609 11407 22478 42022 17389 24652 07678 48797 35499
80856 84751 78264 74422 27475 54764 07915 38275 72979 41019
59864 86328 67465 49025 89492 24422 81486 04616 81600 02972
99938 50420 99420 05380 91011 99748 62156 00000

10536/8174/7318 kHz, 07-11/08-11, 1650/1700/1710 UTC
11166 10053 21069 07066 01709
22546 84581 48355 47395 77737 52961 26453 22879 51659 12904
29292 72504 55677 90761 42121 81361 92522 80093 49932 15367
49995 81507 17742 25118 45083 23906 66235 65624 06970 81269
03640 89424 67203 32191 33868 25369 30217 68199 53204 73872
35416 52794 41740 16998 66819 26083 41780 59734 25824 21313
72190 27361 71630 89151 15729 45283 19223 10402 77532 55176
85018 62789 29645 97082 19314 95193 97430 73681 67836 25264
23929 66920 33340 60910 92367 14236 53665 44044 91641 14674
77840 52566 42287 98470 08087 37035 14623 99871 10284 23825
20354 19138 89581 55142 26214 07425 27160 20481 07601 44418
96056 60801 58684 63344 49783 13681 89051 80139 95491 02352
65210 80993 92885 00980 56541 94314 83088 61680 63531 19347
47413 78249 53294 77001 27602 94371 30355 47093 30285 13514
85793 30027 32751 66904 37923 44740 82682 30046 82992 15410
59320 98993 70871 81593 21185 95673 26137 43404 96518 41696
42329 12819 32735 62808 70228 25126 75222 09474 76218 17880
91000 42113 90472 53416 90019 09022 26077 83032 66168 00000

10644/8159/7438 kHz, 12-11, 1530/1540/1550 UTC
11166 10053 35420 12001 00049 00000 00000 00000 00000

10536/8174/7318 kHz, 14-11, 1650/1700/1710 UTC
11166 10053 35791 14001 00049 00000 00000 00000 00000

10644/8159/7438 kHz, 19-11, 1530/1540/1550 UTC

11166 10053 13579 19001 00049 00000 00000 00000 00000

10536/8174/7318 kHz, 21-11, 1650/1700/1710 UTC

11166 10053 15487 21067 00049 00000 00000 00000 00000

10644/8159/7438 kHz, 26-11, 1530/1540/1550 UTC

11166 10053 35791 26001 00049 00000 00000 00000 00000

10536/8174/7318 kHz, 28-11, 1650/1700/1710 UTC

11166 10053 36782 28001 00049 00000 00000 00000 00000

Link 40122

20082/18207/16141 kHz, 01-11/02-11, 0600/0610/0620 UTC

11166 40122 48372 28045 03319
56512 82505 02368 25685 59995 33556 03435 48289 00269 75781
41804 91078 42657 98571 53259 52183 48875 40850 59156 47052
14501 47176 90660 48386 62398 03625 11913 20709 09290 39391
71801 97988 47661 05061 39042 77781 10181 63466 00241 30301
08833 54091 25636 45876 65938 16936 32202 69219 79264 86803
98806 93958 88395 93922 13101 15845 34572 31868 54840 68104
31163 78691 45316 87347 86976 82220 17591 83484 49590 45454
87215 12085 60885 72989 28132 72611 41979 64425 83427 80971
49733 65675 65651 89827 72040 14127 26363 55091 54062 38585
99604 72052 72609 99941 48993 29570 00864 83504 73108 55770
30604 78919 48870 53687 44159 08635 17592 50276 53236 90830
43398 07250 46842 47767 98693 67165 15472 95471 56363 33202
43756 75715 93411 06074 88745 16217 35702 26498 86037 29995
98502 96677 50915 89829 02524 79217 66698 38751 70125 96926
77481 22509 31389 81930 27463 54941 94744 47541 14040 52202
61830 81318 46854 96763 91278 82755 29996 17152 41122 94039
09528 94334 44493 97306 53529 30708 98312 76845 56859 42622
69656 69677 87798 62376 49488 52949 18782 60624 08433 41589
08404 25127 34303 94642 26870 56795 56034 53745 42103 68946
83748 62161 08675 00731 19614 37821 26764 80646 19183 98806
63312 01096 07922 64708 52582 89913 82594 82306 18297 89801
52197 49003 84540 81616 98134 32439 67629 12438 58320 09753
66117 14362 64887 74894 91133 24953 90208 87448 04249 45296
80893 61396 55038 96580 84467 17261 35543 61162 98419 46064
93816 19025 96287 58540 73735 15604 10492 18037 73270 21884
76592 80552 38403 72720 68657 90332 34870 94331 80436 04476
64927 56871 32016 44973 21332 13051 06657 01640 95699 08728
47491 34347 83463 76407 68769 48020 52587 47585 61351 38824
68244 44885 97116 34978 90639 39910 61988 80631 88161 87761
72266 36254 33055 74147 53936 93960 71800 36038 89661 31212
87387 41778 63144 51341 95673 41623 55519 84325 43008 24618
73505 46256 97312 42758 13974 80928 49815 88378 94625 32009
69602 35698 05482 19198 78200 82466 60849 16840 36363 45329
00000

20082/18207/16141 kHz, 08-11/09-11, 0600/0610/0620 UTC

11166 40122 21547 04046 03029
46544 69790 09462 39798 50234 15458 28080 55299 94763 48102
15815 89094 02133 90890 29296 03312 52887 71037 02029 27662
81496 65450 16386 38144 63626 05856 72959 22562 37496 54325
11970 06304 26507 85156 66405 36807 55320 34037 51593 50154
76586 00431 20880 68233 50507 14124 42117 99905 44410 01869
74630 44612 44536 15065 51371 21859 97223 04411 95920 75021
21662 52463 29054 22898 61434 00054 44543 57460 66998 27477
58877 11229 26323 76409 64602 42716 85854 23493 41965 13376
29001 41503 08533 54486 04325 09064 11505 47423 20627 54831
92372 65738 51120 47084 78643 52503 13863 64666 82289 31333
20657 10217 09637 74545 11587 51612 12353 76886 17392 02580
34248 08260 16855 78404 33556 43893 81405 87670 85395 95388
24109 45973 94091 91087 95243 22548 70050 79191 91642 55739
50873 52066 71998 98260 71389 15189 95307 78173 12312 49149
24647 86527 82186 38159 63475 27601 12335 63504 16636 92668
69467 85373 93252 43254 15664 61506 93716 14782 70403 76093
47934 76580 54334 77363 97034 09175 19465 47309 35723 84793
95472 51974 57462 62044 06814 45737 69681 30680 40316 28053
71184 67405 67956 76056 08953 88653 54489 01494 56537 11273
04641 05404 81212 57061 29526 28988 92091 62087 37004 24116
86385 76733 75641 91889 35991 67397 86973 62720 81603 55795
45759 16336 26534 56791 92910 65179 47419 00715 90781 49612
64015 51071 55513 18381 35264 53613 46113 92769 73808 77688
14963 37881 96160 35816 49437 89491 50699 92419 59324 09897
90684 97658 89735 71212 84479 07298 64190 89546 80172 74541
87564 58485 66774 24791 63585 55344 99187 49234 06575 18597
79133 78233 52108 19941 09225 20429 96291 79433 62366 78504
18337 97117 33678 77549 66130 99603 67126 66959 09471 25024
74046 81802 90675 94801 85747 74605 27233 45676 07395 53480
46201 20423 65332 87536 55019 40694 65069 65520 78447 10435
46300 00000

11166 40122 10987 04047 02369
02084 18609 16293 23296 92654 43307 01639 72493 16895 85373
64236 86541 91185 70726 28764 39309 12185 94253 02647 07821
39610 02473 33095 76262 09980 30976 38088 09600 98494 82600
40960 45276 71254 57251 63288 76409 94992 69331 55771 24928
96517 13700 71784 28091 89050 66106 13294 86819 07644 29036
03827 49287 20869 58895 68172 28194 10963 35494 23520 75181
39616 59744 11701 60801 41596 90513 27231 33495 13386 56587
20850 56016 89037 04661 83228 42726 20411 69298 38540 46209
03999 75814 02587 66643 21523 11993 85160 82357 86484 29594
41331 25024 13862 61587 01348 47914 55135 66039 33840 60654
65839 32603 22008 28930 97812 12540 57489 62564 33351 58218
81587 40414 03434 83014 28553 45522 57231 77573 50600 08955
75055 43341 29352 85776 41970 29329 03397 11586 24216 83036
66649 13052 15672 51467 17193 70903 46513 93185 61304 58784
71265 87346 02339 06434 78447 50624 69166 60618 88968 98007
63844 42252 35504 08364 33223 23149 39994 80729 94153 70844
31489 92272 67003 34912 71512 93830 97163 73231 79118 04008
69221 41627 72864 87725 43505 95330 71848 30194 69676 75689
23023 42230 57059 80575 46966 57852 06401 41914 19298 10114
32736 58784 29924 96079 34061 59524 87303 66909 85492 91273
59925 03978 63601 60398 72168 66961 30612 72228 96760 24837
33148 43556 10992 05734 95222 86317 08894 26562 10152 85907
86559 88367 61075 22562 42797 48351 24791 09240 62303 04479
38563 44452 73539 53630 47234 00000

55767 32403 59672 24906 62634 69632 24273 59998 97651 38110
11638 11840 82633 45315 26226 13059 07359 48321 69307 24466
23220 15782 17613 72084 47119 41177 58345 65916 74066 99522
41461 05138 21894 64721 35185 99408 56544 29752 95684 60977
71364 96864 86832 47276 18835 30000 11019 58700 18181 86589
49200 00000

11166 40122 98765 25050 02899
36920 21236 87300 70945 35195 08650 72447 76417 58012 83914
74101 08505 23374 64557 92470 06117 90159 41623 41061 03163
34824 06942 01748 97662 65704 68377 19786 20564 35850 57760
62207 21452 40335 61174 88027 13346 08975 26304 03708 43759
30392 26512 02309 84223 68367 86348 09774 55451 56417 98167
86779 30332 81522 84551 59589 81947 92965 86216 78345 68801
97193 80099 26244 74429 24657 57307 28026 43603 79565 15611
31220 82301 08480 46187 58577 13631 48694 19279 55136 06905
42345 98472 78354 22037 27175 38275 04742 36475 39895 44675
51436 46819 93082 03392 36157 62354 11554 05472 23982 32655
39143 24947 34366 76455 51834 28230 06860 03989 38170 19929
48957 49964 32892 54783 14505 59371 14737 70395 86118 93311
04330 20452 60040 47036 23114 13122 56876 97374 99253 84316
06646 21747 31445 60501 81591 55945 46575 90743 75172 82873
12173 52690 50697 69434 89568 62154 08010 93736 38728 41008
41694 29838 10674 23056 89205 82185 88449 02590 92392 86947
62551 55306 20829 22440 51770 86274 30402 95807 05388 84642
55592 98173 47645 89766 58878 45428 50450 98455 85714 46850
45229 68021 98507 68748 09890 94808 88039 85310 91809 72904
85759 33845 52800 62714 25406 16607 46983 24082 27370 16392
67515 93656 04259 18089 23089 11176 11086 53374 30171 24367
88522 10741 31885 27155 72661 78047 79505 10844 69715 09769
37479 32990 19096 36149 97917 33628 93313 56431 15509 53549
08126 83359 98766 34326 41376 31132 18571 04747 83969 64011
19931 83383 71404 47750 47902 51941 69318 71052 23611 79109
11465 29229 31306 99582 13579 87256 02385 77947 11552 64413
07335 12116 97364 07685 91512 56002 51208 46130 15720 66123
93237 43392 87490 01810 03390 90531 94048 33725 82703 06395
72856 40363 54586 37674 80698 97230 29451 50287 00000

Link 40133

22871/20629/18553 kHz, 04-11, 1500/1510/1520 UTC

11166 40133 56248 04001 00049 00000 00000 00000 00000

22871/20629/18553 kHz, 11-11/12-11, 1500/1510/1520 UTC

11166 40133 51937 09035 01409
68830 05046 87968 73572 22681 64635 17384 05053 64592 86828
12974 56314 04152 36604 22482 97207 35194 32848 30143 98403
38767 83631 44164 41152 93214 90873 26708 08615 34863 29590
81662 07674 85380 29152 95372 59909 70317 18167 64850 06418
66430 53880 54143 63564 62820 46778 79882 90019 69446 78636
82394 43576 54390 48077 59886 90994 51210 55554 52367 03225
55564 45715 10698 73963 13916 49608 31698 90574 10604 15101
70541 11632 68622 38163 22930 39815 92607 22372 24880 20465
95177 30316 52812 86499 93416 63994 53836 00639 93601 11699
02058 26303 30084 68283 60271 76263 04515 59193 29874 64487
07501 49687 18863 51556 52579 56953 91544 51712 65695 85408
28720 25407 92247 30117 21077 03867 04624 15460 06889 15559
18591 23047 67047 44658 11592 49362 91933 95849 33263 66813
89578 45933 66929 20259 38638 20487 26811 97950 35138 00000

22871/20629/18553 kHz, 18-11, 1500/1510/1520 UTC

11166 40133 35791 18001 00049 00000 00000 00000 00000

22871/20629/18553 kHz, 25-11, 1500/1510/1520 UTC

11166 40133 46387 25036 00049 00000 00000 00000 00000

Link 50046

16236/14417/12128 kHz, 04-11/05-11, 1100/1110/1120 UTC

11166 50046 34971 03016 01449
52569 79070 08903 40530 19636 63685 63196 63673 57784 20166
86902 82228 92414 63670 18062 98271 85393 33825 39106 19908
04597 06620 35588 56398 02049 94814 80374 93052 11699 57087
85478 00501 40628 53313 18489 48678 43967 57252 17905 27970
80098 80490 89077 98118 12491 85399 10929 51524 07052 53012
67735 45354 33901 76951 88530 08064 04240 50556 71057 52888
40018 73502 71252 80369 12275 85374 28612 13486 94865 64659
97791 84677 34302 55273 41001 23640 82301 33902 45661 67141
19076 86251 02913 58799 64713 75511 04461 01030 75390 27754
17484 69265 56014 33469 00441 74815 85527 93812 71603 82975
73267 48902 87683 99313 66493 44362 58546 75518 21920 26064
25343 11155 67699 31768 07642 64073 68986 28860 97306 75628
41937 67049 45779 16793 02595 24977 31498 47906 41830 15788
56149 80843 15242 58726 85418 32578 94821 85560 62459 10573
74003 55080 16142 00000

16236/14417/12128 kHz, 11-11/12-11, 1100/1110/1120 UTC

11166 50046 54391 10017 00889
18739 49087 08903 40530 75806 33692 63196 63673 13954 90173
86902 82228 93376 56097 58916 94621 25218 89004 81112 93460
75940 04183 19916 43980 03694 78321 19086 18753 85376 57190
83060 98742 18407 39204 80763 23499 02870 92024 78551 62737
18507 24567 37109 60198 19606 70750 61090 43373 14857 77560
30442 31866 84044 34877 09249 72114 99057 40756 34824 83637
66909 80998 12467 79952 41628 21219 73274 83726 66781 25787
27479 84987 44649 73934 93565 25821 73413 25653 04766 28666
33076 54328 86367 79059 85102 26625 17086 00000

16236/14417/12128 kHz, 18-11/19-11, 1100/1110/1120 UTC

11166 50046 78325 17018 00909
60509 59084 08903 40530 27676 43699 63196 63673 65724 00170
86902 82228 85417 48011 33380 27443 13598 36097 46419 03471
15468 13686 91128 64706 06669 88873 12361 65090 01931 28691
96961 68283 76145 99571 95553 41478 87906 83252 98868 92837
94378 30630 45482 25774 27318 93546 30394 74055 07553 98777
15628 55809 37701 75958 70487 12790 64292 52935 43161 74490
87586 33522 56101 63064 75518 92521 92923 84293 00803 51512
45639 73203 42774 44437 38256 11244 46556 24805 44989 09267
04793 68907 17319 06957 09647 93165 68001 47770 18088 00000

16236/14417/12128 kHz, 25-11, 1100/1110/1120 UTC

11166 50046 03457 25089 00049 00000 00000 00000 00000

Link 70004

20868/18259/16113 kHz, 11-11/12-11, 1000/1010/1020 UTC

11166 70004 48263 10001 00689
51521 19017 62329 27117 62960 02282 98903 18116 80849 78710
20451 41073 90275 80628 16023 16716 02160 97749 19598 62795
06163 17234 30914 21373 68640 22157 54772 30000 76013 21868
98688 98605 86355 98387 50451 46464 03672 39952 74472 57743
99663 11310 69551 92148 54034 15694 38714 74456 90132 74896
29198 41438 02645 79902 57423 66758 08927 58219 48958 55069
41611 75744 77559 57188 01266 88475 01066 00000

20868/18259/16113 kHz, 25-11/26-11, 1000/1010/1020 UTC

11166 70004 48263 10001 00689
51521 19017 62329 27117 62960 02282 98903 18116 80849 78710
20451 41073 90275 80628 16023 16716 02160 97749 19598 62795
06163 17234 30914 21373 68640 22157 54772 30000 76013 21868
98688 98605 86355 98387 50451 46464 03672 39952 74472 57743
99663 11310 69551 92148 54034 15694 38714 74456 90132 74896
29198 41438 02645 79902 57423 66758 08927 58219 48958 55069
41611 75744 77559 57188 01266 88475 01066 00000

Link 70048

19104/17428/15603 kHz, 01-11, 0800/0810/0820 UTC

11166 70048 26587 01031 00049 00000 00000 00000 00000

19104/17428/15603 kHz, 08-11, 0800/0810/0820 UTC

11166 70048 12345 08032 00059 00000 00000 00000 00000

19104/17428/15603 kHz, 15-11, 0800/0810/0820 UTC

11166 70048 12345 15049 00049 00000 00000 00000 00000

19104/17428/15603 kHz, 22-11, 0800/0810/0820 UTC

11166 70048 76580 22050 00049 00000 00000 00000 00000

19104/17428/15603 kHz, 29-11, 0800/0810/0820 UTC

11166 70048 52147 29071 00049 00000 00000 00000 00000

Link 70059

7658/6778/5361 kHz, 06-11, 0500/0510/0520 UTC

11166 70059 14209 06019 00049 00000 00000 00000 00000

7658/6778/5361 kHz, 20-11, 0500/0510/0520 UTC

11166 70059 13579 20001 00049 00000 00000 00000 00000

Link 70147

15623/13469/11569 kHz, 11-11/12-11, 0900/0910/0920 UTC

11166 70147 23590 10069 02169
74565 93196 03678 58128 50131 73973 96470 94306 66925 67304
91734 84902 29654 04207 74480 57612 08268 31963 62083 62964
83883 09761 43178 49064 25718 02648 07301 04208 39890 42552
16209 76958 10705 21095 98690 45562 99537 02643 90012 07361
13827 49050 41974 28968 35864 57271 39803 42376 53790 05184
07526 27164 98229 56353 11728 86589 28151 46433 79077 35466
92050 30892 77540 69972 01589 14932 00499 01543 44958 41068
29585 48708 24230 77296 49809 55415 25079 44183 77111 69104
32291 27759 71274 98819 38278 32456 21798 46408 90916 44723

92660 13120 35845 64539 38726 06770 74523 48468 63260 77377
67963 44224 88901 72884 26648 99717 99218 24312 55374 62734
67189 91773 29369 73880 72993 91294 00859 28710 34464 45253
97948 51822 13295 22975 62369 93490 28991 66884 01336 26970
69625 29243 69662 22689 72379 83078 08926 55208 09431 58704
98954 91356 27970 07491 59221 69781 09698 79986 18561 17784
50379 00953 77650 59226 11591 52392 97844 88113 79511 89537
94851 82266 31839 24648 27342 04976 19325 95877 79508 36813
59260 02337 10568 00032 01970 90461 37507 19699 84327 43848
30047 17074 18792 45853 14503 95120 46472 40946 58593 45180
68033 01086 10168 30927 12185 57030 69208 37956 90709 13896
03775 78235 75585 65653 24179 93520 52574 70198 57511 50462
99388 24517 33689 20836 69214 00000

16345/14358 kHz, 25-11/26-11, 0910/0920 UTC

11166 70147 64821 22070 03129
75517 83790 87065 00533 15948 71519 57410 29794 45156 08142
73817 80151 47833 22368 81080 56803 31097 30422 38519 22330
12813 21411 65573 18446 99078 88497 16411 32761 86807 85558
81971 02755 52345 14018 42886 74148 12055 69546 21724 55849
65825 03311 07982 38673 59410 77458 54267 70019 26565 19532
67120 01697 96902 05495 40888 53067 80404 26061 08109 56729
64540 16005 04841 78889 84908 51154 74368 31638 55365 42749
57718 19311 68547 83840 44439 86106 02758 27435 82066 57175
96124 01068 67716 90345 73990 87479 70249 80680 40457 26104
56439 85059 70033 15038 19573 58961 60308 18187 33941 22648
31609 07279 83643 98926 84560 93420 39137 89676 51496 27902
79992 83346 02653 76921 87264 10581 93087 99918 53940 90188
61255 86221 86879 32630 15188 29668 98712 93202 67201 45913
13097 92136 03078 62095 31810 43756 96663 33552 37081 61920
05809 67275 27623 33921 10591 56797 11791 80016 79766 58182
06302 40809 76380 61820 13969 59634 38470 39716 78869 52159
95810 72944 42389 80375 08627 88975 48593 73172 39221 63549
72340 60687 92441 66782 68599 14599 85942 58214 66378 11579
36166 60451 55740 62069 70976 66122 41308 71578 04906 57817
60714 26687 37921 45704 91434 22947 63674 52507 94429 76861
98157 00538 68049 89137 64702 80463 10623 51393 96273 06500
15176 13508 40982 87718 44725 53810 81749 70158 61560 19279
06084 29417 08983 27955 86879 18427 68912 50747 60200 00089
43819 14820 10960 19458 36401 95746 02461 95172 25459 90630
10713 34797 61394 89357 49478 03792 29786 86187 96969 02776
56451 98867 60156 32776 52469 87446 37596 53162 22565 89985
66746 61932 85324 17357 66679 53061 78654 74300 12151 30574
48935 98948 99950 84060 47307 37990 93475 55288 81515 99665
56467 50630 96770 51786 11838 78964 84032 56954 86543 19770
39195 62183 28419 51064 21569 85096 05929 91909 85127 63898
26769 39147 80942 63298 36240 03057 54248 53585 81363 71640
70310 00000

Link 80214

8187 kHz, 09-11, 1350 UTC

11166 80214 25631 09076 00049 00000 00000 00000 00000

11162/9915/8187 kHz, 16-11, 1330/1340/1350 UTC

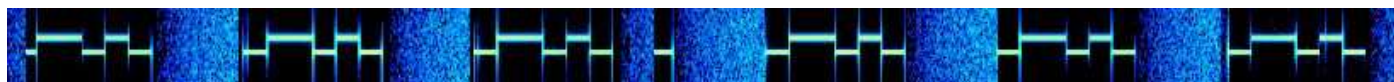
11166 80214 15987 16022 00049 00000 00000 00000 00000

11162/9915/8187 kHz, 23-11, 1330/1340/1350 UTC

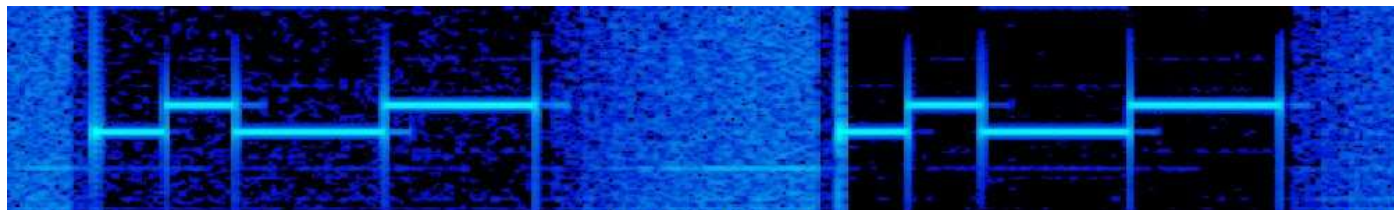
11166 80214 16324 23049 00059 00000 00000 00000 00000

11162/9915/8187 kHz, 30-11, 1330/1340/1350 UTC
 11166 80214 57184 30090 00049 00000 00000 00000 00000

X06 - Mazielka



Mazielka 166161



Mazielka 161166



Mazielka 116611



Mazielka 521634



Mazielka 666666



Mazielka changes from 116611 via 111621 to 111666

Code	Freq	Date	UTC	Day	Details
X06	14631	1-11	0923	Wed	Sequence: 362154
X06	14631	1-11	0923	Wed	Sequence: 362154
X06	14650	1-11	1103	Wed	Sequence: 215346
X06	12158	1-11	1457	Wed	Sequence: 145632
X06	17468	2-11	0703	Thu	Sequence: 436512
X06	12195	2-11	0707	Thu	Sequence: 314265
X06	13405	2-11	1223	Thu	Sequence: 352416
X06	16219	3-11	0928	Fri	Sequence: 324615
X06	12215	3-11	0958	Fri	Sequence: 361245
X06	13547	3-11	1018	Fri	Sequence: 625413
X06	14934	5-11	0750	Sun	Sequence: 351264
X06	20336	7-11	0921	Tue	Sequence: 246531
X06	14358	7-11	0934	Tue	Sequence: 154263
X06	14358	7-11	1036	Tue	Sequence: 362451
X06	18523	7-11	1207	Tue	Sequence: 325614
X06	14942	7-11	1227	Tue	Sequence: 325614
X06	11525	7-11	1256	Tue	Sequence: 156234
X06	11525	7-11	1300	Tue	Sequence: 156234
X06	13506	9-11	0955	Thu	Sequence: 164532
X06	14442	10-11	0851	Fri	Sequence: 564213

Code	Freq	Date	UTC	Day	Details
X06	17463	10-11	0952	Fri	Sequence: 256134
X06	14861	14-11	0834	Tue	Sequence: 542136
X06	12360	14-11	1428	Tue	Sequence: 564213
X06	13548	15-11	0805	Wed	Sequence: 214356. Ended at 1812 UTC
X06	12158	15-11	0957	Wed	Sequence: 564213. Ended at 1038 UTC
X06	16103	15-11	1002	Wed	Sequence: 645321. Ended at 1025 UTC
X06	14650	15-11	1100	Wed	Sequence: 215346. Ended at 1107 UTC
X06	14447	16-11	0822	Thu	Sequence: 162543
X06	14447	16-11	0832	Thu	Sequence: 162543
X06	14884	17-11	1047	Fri	Sequence: 161-6-
X06	14449	23-11	0759	Thu	Sequence: 666666. Ended at 0835 UTC
X06	10330	23-11	0840	Thu	Sequence: 116611. Changed at 1043 UTC from 116611 via 111621 to 111666. Ended at 1114 UTC
X06	13854	23-11	0845	Thu	Sequence: 521634. Ended at 0847 UTC
X06	13506	23-11	0938	Thu	Sequence: 164532. Ended at 0947 UTC
X06	11525	27-11	0818	Mon	Sequence: 156234
X06	14871	27-11	0835	Mon	Sequence: 156234
X06	13940	27-11	0840	Mon	Sequence: 156234
X06	16221	29-11	0737	Wed	Sequence: 341265 (Operator typo of 314265?)
X06b	13428	4-11	1451	Sat	Sequence: 111666
X06b	13894	4-11	1452	Sat	Sequence: 111666
X06b	14727	4-11	1453	Sat	Sequence: 111666
X06b	15807	4-11	1454	Sat	Sequence: 111666
X06b	16128	12-11	0836	Sun	Sequence: 6
X06b	14954	12-11	0837	Sun	Sequence: 6
X06b	13957	12-11	0838	Sun	Sequence: 6
X06b	14812	16-11	1150	Thu	Sequence: 111666 Ended at 1317 UTC
X06b	12320	21-11	1125	Tue	Sequence: 166161
X06b	10320	21-11	1253	Tue	Sequence: 166161
X06b	14640	21-11	1309	Tue	Sequence: 166161
X06b	14640	21-11	1339	Tue	Sequence: 166161
X06b	9350	22-11	1024	Wed	Sequence: 116611
X06b	12335	23-11	0624	Thu	Sequence: 116611
X06b	10330	23-11	0632	Thu	Sequence: 116611 Ended at 1114 UTC
X06b	9320	23-11	1132	Thu	Sequence: 111666
X06b	10250	23-11	1209	Thu	Sequence: 111666. Ended at 1642 UTC
X06b	13439	24-11	0704	Fri	Sequence: 666111
X06b	12520	24-11	0835	Fri	Sequence: 111666. Ended at 1000 UTC
X06b	14884	24-11	1035	Fri	Sequence: 111666 before E07
X06b	14884	24-11	1044	Fri	Sequence: 111666 before E07
X06b	11520	24-11	1114	Fri	Sequence: 666111
X06b	17427	27-11	----	Mon	Sequence: 111666
X06b	17426	27-11	1244	Mon	Sequence: 111666
X06b	16315	29-11	1004	Wed	Sequence: 661166 Ended at 1157 UTC
X06b	12321	30-11	1045	Thu	Sequence: 111666 Ended at 1316 UTC
X06b	15811	30-11	1308	Thu	Sequence: 111666
X06b	13450	30-11	1710	Thu	Sequence 111666 Ended at 1911 UTC
X06c	7730	7-11	0730	Tue	Sequence: 123456

11409/13509/14609 kHz, 01-11, 0700/0720/0740 UTC

456 456 456 1 456 456 456 1 456 456 456 1
03713 00149 09090 26266 04323 73611 19018 21792 90811 51879
20564 55932 02524 84470 35847 13638 14194 13011 28758 75308
90031 78280 79914 91522 00447 95634 85725 57363 43065 12537
55470 48902 48541 00359 00852 65669 97737 99737 99466 75647
96734 94039 59918 78887 04832 81493 53202 04318 59342 21803
09201 29487 59783 47462 60505 39942 51002 98280 45201 37844
79160 88279 27248 84891 46120 62918 13881 99758 30926 77568
99831 41923 14244 26790 99647 43126 60173 25547 66781 98506
36013 56169 21537 86724 93258 20616 91653 63858 20968 79031
48314 59760 43576 51619 98206 24905 47739 40969 49780 10340
67672 79082 12977 41128 96144 23122 58959 16186 43514 90487
09617 10594 97381 31927 53382 93622 40648 24524 57342 70438
26269 32248 54939 74488 22575 01685 24006 98869 03088 25740
02210 47788 64710 91051 81369 45542 68008 64470 07428 15633
83749 34643 20020 11760 19428 48320 35725 26410 96674 34966
58582 17311

11409/13509/14609 kHz, 01-11, 0700/0720/0740 UTC

456 456 456 000
08451 00001 00000 10140

11409/13509/14609 kHz, 08-11, 0700/0720/0740 UTC

456 456 456 000
01009 00001 00000 10140

11409/13509/14609 kHz, 13-11/15-11, 0700/0720/0740 UTC

456 456 456 1 456 456 456 1 456 456 456 1
09648 00187 23551 59295 13440 82990 40275 14047 87605 94138
33729 64777 90303 75235 19662 37748 63100 87415 29747 26406
73055 83995 37721 23120 19596 74160 30831 08013 76035 70243
21503 81949 77527 77715 04987 60655 74932 17100 58351 35276
89722 23992 23081 84608 65976 70742 96752 33570 76312 51635
50813 76439 55564 90475 61405 31933 73601 38732 31620 57872
14981 76301 43314 51624 43441 98788 75406 13504 37029 68614
13918 62997 18122 37396 82863 93304 14688 37204 96635 79265
21161 31363 27261 76856 80187 87135 89882 16981 85062 95083
14272 18214 76551 82008 47834 99178 05697 25879 75877 58806
68567 71856 05644 22436 24148 97616 14327 47192 16379 01698
62867 60676 17646 42146 93931 31970 78357 23186 55445 39581
14483 74486 91125 94850 19613 42318 42306 94110 71091 50447
13093 73484 38315 36334 78369 46314 73279 68568 78129 34906
99894 83048 58869 21309 36240 11244 54186 63911 50228 07319
64661 47581 12819 00788 47906 25805 47017 10179 08414 91772
34117 33655 00835 24028 19296 64256 05050 66427 81555 47134
28485 63991 80168 13801 68394 94499 90848 73772 93088 46831
33035 57790 51854 38275 85433 89946 76010 67969 66993 33156

11409/13509/14609 kHz, 20-11, 0700/0720/0740 UTC

456 456 456 000
05774 00001 00000 10140

11409/13509/14609 kHz, 22-11, 0700/0720/0740 UTC

456 456 456 000
07610 00001 00000 10140

11409/13509/14609 kHz, 27-11/29-11, 0700/0720/0740 UTC

456 456 456 1 456 456 456 1 456 456 456 1
00655 00171 15206 39252 19428 27432 78065 85320 11141 39923
69354 37059 36648 00867 46203 54461 26134 98246 78220 07555
11973 25338 06885 98822 63019 72617 56852 27168 84825 74148
28785 91961 39803 64948 06699 52659 90254 98020 21785 59704
87243 81571 01102 79316 84654 84661 00718 15859 93158 24730
18747 81120 72408 96719 42882 73370 25676 16300 28031 00134
01022 35941 29730 19423 92745 36517 95553 01021 38170 02963
72843 39148 98307 79911 39526 31596 05346 53399 95372 27715
08338 04660 75733 24049 84774 65503 08712 89380 97931 66994
78856 12135 35585 59769 04363 04671 12489 04822 27792 12169
34192 98782 95661 31571 94559 19776 24615 57491 25301 53280
34619 51395 36884 46198 55637 37273 09986 98009 85826 72307
63998 05073 08721 18488 27803 86538 32725 37074 77587 88800
52902 05714 57427 91071 53997 81036 80317 27548 14316 13159
69924 11871 81980 36823 06552 08425 98505 10177 23286 50418
45397 05835 28885 06480 07635 76345 94258 51782 09015 40498
73404 02738 17522 75910 85017 33074 90063 55459 15428 93554
88890 86495 34030 40314

XPA2

14517/16017/17417 kHz, 03-11, 0700/0720/0740 UTC

06267 00103 40483 41894 18309 75470 46021 18231 92013 37994
88141 76560 02580 79135 77276 56693 04653 46540 07560 14040
47523 27938 54160 81916 43121 21559 46708 22142 91773 22223
64346 72994 74221 73345 11863 87675 62179 84834 85682 60365
23897 27091 57196 85004 24745 73037 25400 27378 76827 26352
12328 05993 79804 10838 13251 87882 06374 33364 73058 46607
68615 25755 11369 86226 66445 42971 44970 70857 34193 58738
33106 80500 89768 70252 06836 71488 43608 30172 23349 17673
48470 70540 71119 88253 94471 49615 73225 50039 65281 30280
62223 01017 47922 73891 06926 33744 34947 73053 45541 80695
02020 11024 92017 04900 61580 52267

17462/16114/14828 kHz, 04-11, 1400/1420/1440 UTC

04041 00001 00000 10140

18238/16238/14438 kHz, 05-11, 1300/1320/1340 UTC

08668 00001 00000 10140

13427/14627/15827 kHz, 06-11/08-11, 0800/0820/0840 UTC

01943 00191 59234 10099 97080 73375 26140 47718 20730 75990
29399 96305 63000 38373 40136 15668 15315 42775 45115 49678
77655 24972 81524 91395 65669 26842 15950 59958 74815 46561
27982 49921 32641 03857 10585 35058 00993 25341 49537 66932
42323 55049 94856 55280 56365 31851 53581 34099 92938 93513
37730 79577 57646 79730 54793 83478 26881 12720 64024 43749
77173 97023 28429 33860 20448 64475 54727 19640 29675 18289
60059 93825 46627 56690 84416 48021 89483 84403 01092 02741
08094 75749 68891 20006 47375 78273 11287 61474 58462 97482
07858 80374 15312 21161 00262 78006 65418 73209 54906 26072
24241 01567 66416 29619 50546 01342 87393 51345 28773 89470
71269 50917 27452 04631 43388 60280 68666 59038 58993 08482
62581 01180 17594 80027 03119 53224 32668 81052 28844 31272
70279 23052 95409 89357 93170 74019 46865 67812 61711 12626
60454 54761 48352 82952 17606 55697 65535 12535 70992 84672
12799 87259 11617 64768 06151 10994 54136 41837 44679 36685
59137 18655 50651 49800 64885 71212 78189 30440 79552 03615

08719 25298 78979 32082 07112 07216 77054 13711 83356 81207
12453 62919 26783 64950 21893 78750 27059 93101 92305 91006
84475 22043 19693 44106

14517/16017/17417 kHz, 07-11/10-11, 0700/0720/0740 UTC

04180 00143 68886 09857 70925 51643 14820 76474 95486 96245
91214 24443 94281 46273 36338 05522 26717 17970 58623 19960
07359 04435 95539 47613 03853 79952 62301 26728 86517 34288
75726 75779 25112 58331 73911 48781 67308 44300 56225 77649
18497 36398 38129 57324 39817 55937 63676 83405 19714 83040
49407 56692 66103 35165 11869 21884 80742 09513 97215 03630
73435 30806 35809 92312 86220 33574 39656 52546 21351 83237
75496 24056 50592 59532 02215 39402 14037 82847 21473 97779
48777 77095 41033 75211 00595 29893 10111 38602 10429 88424
74175 46304 15459 23262 55270 05239 69337 33167 10069 29237
88009 77389 68123 38503 73875 69351 16881 45690 65375 04574
65410 43385 38217 52054 08602 96811 76057 31947 32901 60178
62433 00438 31276 97494 70632 90337 22327 66154 59430 39761
72611 91896 12314 99766 79616 68702 16531 68233 15396 67711
38823 78089 86784 84212 43195 55104

18238/16238/14438 kHz, 07-11/12-11, 1300/1320/1340 UTC

09313 00077 17362 17404 21791 37908 15337 75236 21134 20447
42177 59858 67011 46398 03204 35820 92926 95041 50749 06251
21875 51243 35277 25074 63773 47271 67995 90992 80314 56474
06251 14269 64170 15066 26335 20060 04190 21433 21393 65070
08330 82274 16099 21758 76955 74934 37534 13406 84917 13846
61850 80474 45992 53170 34896 05735 74765 86056 14045 60634
04336 56826 25949 94726 85229 87911 03230 48552 57992 61362
87210 11137 72758 13029 38333 57652 04176 67146 58947 00554

17462/16114/14828 kHz, 10-11/11-11, 1400/1420/1440 UTC

09778 00113 75437 76324 53217 45208 21451 31588 86041 05367
88047 08868 48035 46894 43830 41787 38845 56912 78748 60623
07879 21902 55653 92070 91621 51801 34847 68454 50213 62169
27876 27359 60231 64246 09781 38460 63298 23287 72052 54926
98868 38835 64140 60919 02180 99295 76275 37388 47607 72669
00511 35253 39565 40328 67677 79205 83694 20529 79695 08935
13912 06622 93474 56056 59549 38369 67857 75174 77937 27178
30444 98311 11751 20655 23989 30007 49911 64918 02857 54055
35377 08881 87670 03564 93510 64032 12280 98279 44768 18718
99341 10459 08426 96245 36303 67088 70651 69009 39161 96134
79246 85543 57160 79805 55146 39823 13655 26125 58539 99902
51595 68807 80943 18186 96128 55124

13427/14627/15827 kHz, 13-11, 0800/0820/0840 UTC

03039 00001 00000 10140

14517/16017/17417 kHz, 14-11, 0700/0720/0740 UTC

04444 00001 00000 10140

18238/16238/14438 kHz, 14-11, 1300/1320/1340 UTC

06396 00001 00000 10140

13427/14627/15827 kHz, 15-11, 0800/0820/0840 UTC

06761 00001 00000 10140

14517/16017/17417 kHz, 17-11, 0700/0720/0740 UTC

02000 00001 00000 10140

17462/16114/14828 kHz, 17-11/18-11, 1400/1420/1440 UTC

03684 00101 18832 53027 65997 76104 48856 02177 65007 66409
44114 67548 42160 98672 16219 28015 61913 20646 72507 95647
87888 68834 64868 22702 58672 83325 92651 98253 01499 95908
70492 30408 99863 31079 20187 57039 09444 42130 62481 31472
45407 30868 57844 94874 24132 24894 90089 79403 96934 21537
22905 80874 73960 26850 40008 38383 87543 64570 05081 10374
15119 03406 23310 62549 48870 46969 38386 45591 50435 27353
51186 46465 24715 25306 25607 13244 71678 31165 12214 61345
69616 09212 75361 38238 25628 50710 48676 88017 93709 29397
64162 78783 37595 81852 53742 66054 26875 05831 70500 33212
42672 05691 67019 14273

18238/16238/14438 kHz, 19-11, 1300/1320/1340 UTC

03548 00001 00000 10140

13427/14627/15827 kHz, 20-11/22-11, 0800/0820/0840 UTC

04186 00157 23805 57747 66560 07306 82139 89304 54277 55833
60826 74326 22825 75140 72215 67353 58984 27048 60124 86602
03960 09465 21054 51523 20163 65322 73528 64857 72104 97402
54824 47838 14788 05631 93040 55283 42450 41863 02109 70694
11682 49048 79189 56341 93194 09740 32217 52803 45767 75112
35263 03998 55801 44837 01507 90879 85032 05214 46789 26064
21523 06942 58968 08686 58213 03440 54280 62422 73401 43983
17387 28679 63115 75514 12656 63512 95713 32796 33782 14940
68221 24216 26323 33612 06414 17633 86987 23142 58322 26078
74785 27823 15589 59524 49278 10161 92118 02770 29661 05887
17014 39628 15238 40967 26540 30384 84491 30918 95747 83804
06914 13153 45642 26578 21607 27582 64969 11697 63674 13323
84090 22781 11579 76762 74663 98828 62836 31777 38136 76317
00139 34125 45817 36761 74925 86536 09606 08875 86377 13835
38146 69569 45538 50844 84497 15427 87886 86578 32383 54475
56982 00051 82810 22347 07596 02067 08775 56954 89645 66601

18238/16238/14438 kHz, 21-11/26-11, 1300/1320/1340 UTC

07999 00091 78697 32617 63183 08136 77945 93936 01393 73433
83747 96539 07212 48079 36889 03902 16445 64867 74834 02874
37722 57496 12154 82980 99445 92356 40367 78601 05632 34572
21528 64348 00507 01909 54558 21600 64515 48157 12290 08416
15019 34426 23529 44549 69554 53880 35978 72975 88475 40452
32576 93102 88642 14581 99081 84469 63765 21854 31242 31503
08108 51611 46842 79377 71123 11102 16891 51927 35749 40937
74511 85726 81586 37184 91607 48410 06936 65724 96811 72755
71219 20805 72819 73176 61044 23450 70466 50524 86461 23037
98637 59345 02339 52702

14517/16017/17417 kHz, 24-11, 0700/0720/0740 UTC

02899 00129 53673 73720 29463 81219 44439 23970 66014 84724
71190 58532 41317 00164 40685 40404 19450 13795 54211 06295
38029 94796 50422 88509 94153 71875 35288 57145 24555 30865
92914 60731 67053 22544 57795 50455 21068 57608 44445 93055
06941 75893 91167 75825 85321 10827 41596 18635 30054 53802
15229 11656 49063 55583 40546 83422 50471 21154 35792 00122
41617 69056 04032 05069 70246 67114 11696 96272 81484 34834
65162 17102 85216 81714 59154 06939 87215 72731 57399 28268
19928 17371 93627 01320 96671 45456 21238 90639 00043 67099
78512 01560 55665 40658 50308 34127 80650 48632 12445 23716
21876 98368 54349 58241 90318 40698 49717 67548 87666 66410
66153 74898 39844 64808 66719 18535 56345 94049 24769 45113
66003 45981 04617 30907 38456 54752 79519 09371 45331 46484
77851 43067

17462/16114/14828 kHz, 24-11, 1400/1420/1440 UTC

04474 00001 00000 10140

17462/16114/14828 kHz, 25-11, 1400/1420/1440 UTC

09495 00001 00000 10140

13427/14627/15827 kHz, 27-11/29-11, 0800/0820/0840 UTC

03957 00201 83714 66267 48946 10168 41247 10975 63572 10342
09429 37004 79168 94677 45973 74482 57798 75776 99428 58744
93602 39256 41639 23540 98014 06169 91943 37656 50038 68604
99589 81254 28100 23916 14252 30596 92318 75027 00709 11176
02212 06465 04055 22369 42055 64652 19312 97231 48303 86522
16139 86964 43962 72814 88945 52901 60275 58200 17637 92068
51482 77027 82516 37698 07598 34216 90169 07543 06618 31929
64622 69220 01708 14452 64230 81096 37709 72923 16872 93613
22576 93206 43841 13809 64405 80318 44307 59984 29351 47086
88315 78763 11174 23000 30520 74709 89874 14988 10943 30798
08315 98478 90506 00133 50936 62635 51928 89996 84489 64068
70333 66335 95863 63632 61945 57560 24221 08406 20795 76844
16620 76632 97749 00278 12357 98879 28534 98303 27914 00515
80063 59302 47653 90941 80962 53038 94731 76481 74546 31569
67854 25720 36788 02377 57114 43359 30988 24978 56212 70573
80987 25315 44998 03287 45483 08954 47084 57334 18857 39995
59980 52433 85629 48379 29596 27575 05598 44662 59566 32505
17572 91149 87597 00413 80226 22314 39790 99193 41962 51957
58237 87560 69409 60238 93621 48573 40368 72757 95786 77677
84587 36626 98324 64414 94989 37877 34213 03264 91775 20501
73275 82847 07833 65204

14517/16017/17417 kHz, 28-11, 0700/0720/0740 UTC

02378 00001 00000 10140

18238/16238/14438 kHz, 28-11, 1300/1320/1340 UTC

01442 00001 00000 10140

F03

New designators for the various F03 modes:

F03a: 100 Bd / 200 Hz shift

F03b: 200 Bd / 400 Hz shift

F03c: 400 Bd / 960 Hz shift

F11

9370 kHz, 13-11/15-11, 0845/0850 UTC

0353 0353 0353 0353 0353

88888 88888 82848 35084 57886 68884 47659 02120 14680 61189

66688 01290 37796 23708 94624 24127 01888 71903 79028 80524

69930 81825 86248 77437 40954 63148 79166 26574 27190 78840

18723 66932 80763 49548 82345 70097 09321 21390 28862 57120

50957 41321 88888 88888

00044 00044

6836 kHz, 20-11/23-11, 0800/0805 UTC

0434 0434 0434 0434 0434
88888 88888 10095 89543 52585 48513 23563 89598 88503 49771
78819 83035 13298 47491 26410 04508 79037 50788 33643 67281
53156 65644 79057 17520 92857 79239 21396 36506 06169 41559
41166 29799 54713 43703 62051 77154 46628 03633 91890 88888
88888
00041 00041

6807 kHz, 28-11/29-11, 1150/1155 UTC

0325 0325 0325 0325 0325
88888 88888 94035 56822 78103 07267 67335 08972 90998 23812
29142 35991 17056 17100 84744 51254 09676 55129 79544 65797
98765 57689 99928 46311 24243 00065 69242 15049 40598 71855
91555 91377 86539 26432 64339 88888 88888
00037 00037

Q26 - Chinese military

8295 kHz, 04-11, 1037 UTC, i.p., a bit garbled

YXYXYXY HR MSG I QQPR QIER
6429---2055
6678 7360 6439 3714 9068 0182 9,90 5182 345PIU
6839 P PTIQ WVRIOQV9681YUIW TUPW EQWU UTPROW
QUET ETOQ YWUP OE EWQT RQIW UEPO TRIE WYIQ YW YTY
EQWU UTPOWPRET ETOQ
XXYXYXYXY CY HW?
+
CL
XXYXYXYXY HR MSG TO U PSE CY
QI QQPX QIER
6429---2055
6678 7360 6439 3714 UW ERTP IEO UTEP PTIQ WERI
OPYIQ YTRE YUIW TUPW EQWU UTPO PROW QTET ETQQ YWUP
0783 1056 6984 2658 8273 3215 4182 7309 5483 2681
0623 7530 0?81 2348 4908 9125 6958 1660 7841 4312
9681 6543 6782 5702 3127 PROW QUET ETOQ
XXYXYXYXY CY
XXYXYXYXO CY
0443 5QI QQPR QIER
6429---2055
66Y EUQR OPYI PQIW UEOP TQIW ERTP YPIU
6839 1830 4916 7530 0581 2348 4908 9125 6958 1680
9681 6543 6782 5702 3127 7509 049ET ETOQ YWUP
0783 1056 6984 2658 8RQIW UEPO TRIE WYIQ XPYWE
UTEP PTRI ROPI OQWT YOTI QYIP REQW
9681 6543 6782 5702 PTOQ
XXYXYXYXY CY HW?
MMZ

13119 kHz, 25-11, 2250 UTC

MNIR MNIR MNIR DE SKYG SKYG SKYG QSA? ///
MNIR MNIR MNIR DE SKYG SKYG SKYG QSA? ///
MNIR MNIR MNIR DE SKYG SKYG SKYG QSA? ///
MNIR MNIR MNIR DE SKYG SKYG SKYG QSA? ///
MNIR MNIR MNIR DE SKYG SKYG SKYG QSA? ///
XXYXYXYXY HR MSG TO U PSE CY
0509 69 18 1126 1816
4637---3755
6678 7360 6439 3714 9068 0182 7390 5182 3450 6087
6839 2830 4916 7530 0581 2348 4908 9125 6958 1680

9681 6543 6782 5702 3127 7509 0492 1735 3591 6270
0783 1056 6984 2658 8273 3215 4182 7309 5483 2681
0623 7530 0581 2348 4908 9125 6958 1680 7841 4312
9681 6543 6782 5702 3127 7509 0492 5283 3891 0932
1357 2859 3692 0933 8107 9203 3901 9328 1359
XYXYXYXYXY CY HW?

XSL - Japan Maritime Self-Defense Force (海上自衛隊 Kaijō Jieitai)

Logged on 02-11 at 0704 UTC, 13-11 at 0603 UTC, and 29-11 1322 UTC. Mode QPSK 1500Bd.
Operates 24/7 on 4153, 4231.5, 4291, 6250, 6417, 6445, 8313, 8588, 8703.5 kHz

Tony sent us a note about the locations of the XSL transmitter sites. Below his comments. Thanks Tony !!

Quote

I believe I have the TX IDs and locations, derived from web references, the ITU frequency list and ITU Monitor station DF data.

4231.5, 6445 and 8588

ITU Frequency list (IFL):

4.2325	JJF2	141°14'00" E ; 41°19'38" N	KABAYAMA	2K70	J2B--
6.4460	JJF2	141°14'00" E ; 41°19'38" N	KABAYAMA	2K70	J2B--
8.5890	JJF2	141°14'00" E ; 41°19'38" N	KABAYAMA	2K70	J2B--

Re the IFL SiteName "Kabayama", can't find it as a place (city, town, base) on the web.

Other IFL entries at/near the JJF2 coordinates:

141°13'47" E ; 41°19'47" N MUTSU (Mutsu IS a city on the map)

Re IFL cuts on XSL freqs:

4323.5: Slavyansk 2K00, cuts ☒ JJF2

6446.0: Slavyansk 2K00, cuts ☒ JJF2

8590.0: Slavyansk, Yakutsk 2K00, cuts ☒ JJF2

WWW: Ohminato Air Base is nearby.

4291, 6417 and 8703.5

ITU Frequency list:

4.2920	JJF6	130°55'15" E ; 31°27'19" N	KUSHIRA	2K70	J2B--
6.4180	JJF6	130°55'15" E ; 31°27'19" N	KUSHIRA	2K70	J2B--
8.7045	JJF6	130°55'15" E ; 31°27'19" N	KUSHIRA	2K70	J2B--

Re IFL cuts on XSL freqs:

6418.0: Slavyansk 2K00, cuts ☒ JJF6

8704.5: Slavyansk, S. Petersburg F7B 2K00, Tokyo J2B cuts ☒ JJF6

WWW: JMSDF Kushira Transmitting Station

Kanoya Air Base is nearby.

4153, 6250 and 8313

ITU Frequency list: no entries for these frequencies.

There is a single entry for JJF3 on another frequency:

4.5000	JJF3	140°10'45" E ; 35°26'25" N	FUNAKOSHI	3K00	J2D--
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This has been logged as a 30 tone Japanese modem on 4498.6 (by EW), and a F7B 2K50 on 4500.0 by Slavyansk. Slavyansk bearings agree with the IFL location.

Re the IFL PlaceName "Funakoshi", can't find it on the web.

Other IFL entries at/near the JJF3 coordinates:

140°11'E ; 35°27'N JJF ICHIHARA
140°11'05" E ; 35°26'49" N HARA (13/12/07)
140°11'14" E ; 35°26'23" N JJM20 SHIMOFUSA

Re IFL cuts on XSL freqs:

4154 .0: Slavyansk 2K00, cuts @JJF3
6251.0: Slavyansk 2K00, cuts @JJF3
8314.0: Slavyansk, Yakutsk 2K00, cuts @JJF3
WWW: JMSDF Ichihara Transmitting Station
Shimofusa Air Base is nearby.

All three sites are close to JMSDF air bases, which might indicate subordination. However all are not very far from a Navy base either.

I like figuring out TX site coordinates using ITU DF, UDXF loggings, QSL card info, the IFL and Google Earth, etc. I built tools to calculate the true bearings for any of the ITU sites to any of about 500 TX locations, and to calculate fixes (where the bearings cross) to refine estimated locations for those where I don't have an exact location, and then update my placemarks on Google Earth.

Unquote

DIPLOMATIC STATIONS

North Korean diplomatic stations

Logs:

Freq	Date	UTC	
13222	2-11	1330	North Korean diplo i.p.
14885	2-11	1330	North Korean diplo i.p.
15015	2-11	1330	North Korean diplo i.p.
15355	2-11	1330	North Korean diplo i.p.
16222	2-11	1330	North Korean diplo i.p.
7999	9-11	0816	North Korean diplo i.p.
11199	10-11	0716	North Korean diplo i.p.
16085	10-11	1508	North Korean diplo i.p.
16318	12-11	0930	North Korean diplo i.p.
14530	14-11	0657	North Korean diplo i.p.
13444	14-11	0658	North Korean diplo i.p.
13444	15-11	0804	North Korean diplo i.p.
12850	15-11	1235	North Korean diplo i.p.
16450	15-11	1235	North Korean diplo i.p.
15888	15-11	1237	North Korean diplo i.p.
16025	15-11	1507	North Korean diplo i.p.
16085	15-11	1515	North Korean diplo i.p. QSX 16025 kHz
14530	16-11	0655	North Korean diplo i.p.
15555	16-11	0657	North Korean diplo i.p.
12320	16-11	1206	North Korean diplo i.p.
12345	16-11	1206	North Korean diplo i.p.
14530	16-11	1229	North Korean diplo i.p.
10800	16-11	1258	North Korean diplo i.p.
10810	16-11	1258	North Korean diplo i.p.

Freq	Date	UTC	
12222	22-11	0703	North Korean diplo i.p.
13105	23-11	0943	North Korean diplo i.p.
14444	23-11	0958	North Korean diplo i.p.
10330	23-11	1216	North Korean diplo i.p.
14530	24-11	0656	North Korean diplo i.p.
12850	24-11	0829	North Korean diplo i.p.
13333	24-11	0834	North Korean diplo i.p.
12222	27-11	1258	North Korean diplo, Moscow 0xB5, 2144 x 5FG in 3 msgs, session lasted 1258-1305z
10850	29-11	1210	North Korean diplo i.p.
13105	29-11	1215	North Korean diplo i.p.
10333	29-11	1216	North Korean diplo i.p.

Danix decoded several messages and writes "The vast majority of their HF traffic is of that format. Worth noting is that the first three and penultimate three 5FG's are the same. I haven't seen that feature in old RTTY traffic examples."

B60100001901015FD10D2C019B00000011470400 [#1095 155g]

97011 27389 94969 73648 72800 92497 01129 53521 44599 50867
04851 61378 44897 21088 60047 37599 50770 40215 97146 74947
72560 34593 67261 74773 34031 17976 03399 05731 95574 26084
59021 62409 52218 89652 97609 17284 12833 43759 22527 28494
40619 42443 22293 61237 94696 72398 41952 06090 44837 62994
39413 73632 64767 73617 47169 23414 32546 94581 98242 51075
00099 69923 12829 28889 71551 59655 34751 71943 68103 95545
59778 26520 35314 07591 34314 39425 70628 26818 95271 86284
14199 71242 32131 22399 21672 86202 91799 26437 75887 54380
57807 22461 78784 64080 35543 89165 60786 47007 99891 59277
76998 57073 45625 92842 87865 64673 99224 45278 08095 23190
45320 10405 33218 97805 29998 74653 49271 36212 18151 48518
80115 28286 77759 92986 56515 04087 92841 80738 28286 60976
23628 41926 51466 85686 37565 81064 59359 05337 91895 35613
69553 45023 64966 48928 22610 02566 82406 66153 81812 48112
05711 97011 27389 94969 08259

DA0200001901055FDE0A2C010B010000111F0300 [#799 267g]

88093 55415 16268 92617 51212 34389 09367 89897 42220 59321
19762 23280 51637 90456 90574 69181 29578 98321 95273 97571
85892 78536 30635 67327 35806 43828 42597 36736 1550_ _____
_____ _0274 12590 53327 12696 68704 46233 65263 55666 46870
36111 23983 13898 43305 45496 46918 11053 93197 47374 75132
90485 29940 64171 50041 01959 03013 22671 68898 64591 58770
31547 98889 52873 42889 96713 09690 10796 35720 18125 22537
10144 24189 71135 59580 40260 98_44 _2_27 31967 15180 71533
96716 83964 26352 98201 05259 37455 40338 20834 13881 66917
91804 16228 08010 39951 79761 54201 33972 98736 91370 49876
88064 79114 50040 22168 69306 91383 21466 34806 43946 62922
22742 60949 29216 32323 48773 91452 93523 96677 28565 66923
56963 52963 29451 47239 93582 02155 13006 68878 42805 86321
36738 91430 97434 61002 75796 88477 75502 56685 74497 85504
47945 88808 99593 63154 35118 48674 57079 32851 66907 83389
25125 52714 58008 63016 21312 74867 26601 14085 30889 12709
27761 51750 54406 09920 89803 16057 60845 37786 91081 85683
50227 84768 98854 06603 48367 69521 17813 08640 30572 17865
73515 15223 66214 26056 52986 52068 35407 88624 51193 93282
28911 92434 27444 42413 59944 99255 14668 08475 74800 07866

65707 18034 80345 95077 08451 35704 26532 10428 94190 35533
 51914 94005 14815 47988 65383 14009 87150 76374 90156 44751
 87175 37375 32560 42008 75392 07752 15917 33356 43539 92294
 83791 46348 7390_ _____ _3642 13480 01929 69740 52280
 19864 54669 14544 59938 67521 63302 53582 61584 96634 95621
 67791 66108 03491 71555 96568 59490 63243 41969 13693 81922
 74801 41355 41494 88093 55415 16268 40666

D10000001900013587002C014800000000 [#135 72g]

97362 09899 16894 03771 95182 71197 36204 55777 22939 29714
 96475 46974 32022 32225 48474 29566 16111 05096 88994 61070
 52669 98439 86856 07362 11625 54926 65439 87745 07342 56366
 38778 17002 73152 59556 23475 46087 13770 06202 99901 52576
 32645 47115 32868 87136 34912 68524 95624 39165 93325 18206
 26285 98605 05473 79718 64056 29781 12620 05995 02653 78074
 24087 70244 66881 26855 10524 11873 44082 04446 97362 09899
 16894 02945

Egyptian diplomatic stations

Freq	Date	UTC	Details	Mode
9067.7	1-11	2130	RCVB: Egyptian embassy, Washington	SITOR-A 100/170
14356.7	2-11	1330	Egyptian diplo i.p. KDS 00931 00931 KY KY JG KDCFUSG KY DDHFMV	SITOR-A 100/170
19101.7	2-11	1343	MFA Cairo long msg to IPTX: Egyptian embassy Havana	SITOR-A 100/170
9067.7	2-11	1640	OOVC: Egyptian embassy, New Delhi	SITOR-A 100/170
7800.7	2-11	1758	OOVC: Egyptian embassy New Delhi wkg MFA Cairo	SITOR-A 100/170
9067.7	2-11	2010	TVVK: Egyptian embassy, Rabat msg to RCVB: Egyptian embassy, Washington	SITOR-A 100/170
16221.7	10-11	1510	71: MFA Cairo/Egyptian Intel msg to Egyptian embassy Washington	SITOR-A 100/170
9046.7	13-11	1506	71: MFA Cairo/Egyptian intelligence sending urgent messages to OOVC: Egyptian embassy New Delhi	SITOR-A 100/170
9046.7	13-11	1650	71: MFA Cairo/Egyptian intelligence clg RCVB: Egyptian embassy Washington	SITOR-A 100/170
9046.7	13-11	2130	Egyptian diplo i.p. Encrypted message	SITOR-A 100/170
17422	16-11	0850	MFA Cairo clashing with MFA Pyongyang	SITOR-A 100/170
10225	19-11	2206	i.p. MFA Cairo msg to IPTX: Egyptian embassy, Havana	SITOR-A 100/170
19667.7	20-11	0917	MFA Cairo sending many messages in Arabic	SITOR-A 100/170
19666	20-11	0923	44403: Egyptian embassy, Jakarta sending messages to 99902	Codan-16
7777	20-11	1913	MFA Cairo calling XBVX: Egyptian embassy Bucharest	SITOR-A 100/170
18026.7	22-11	0930	Egyptian diplo i.p.	SITOR-A 100/170
16223.7	25-11	1404	Egyptian diplo i.p.	SITOR-A 100/170
16067.7	25-11	1420	1: Egyptian embassy, Algiers msg to Egyptian embassy, Havana	SITOR-A 100/170

Most messages were very long. Too long to show here. Below one example of a message in progress. Sent by MFA Cairo to IPTX: Egyptian embassy, Havana.

ORIDO 1F2B5 41464 2077E 8C9D0
 115F2 9A425 9730E EABEA 96B9D B68CE A5BE8 0BC94 E2E37 5242F
 1465B 35EEE 9AE3E 6E8DF C1831 49E99 0DCB9 OCEED 76612 E0121
 438D0 4534A F44E1 0A642 62459 21AD8 0EC12 55101 E20C2 F16AC
 71692 9F036 01C93 6E038 E6F10 112A6 ACC2E 2F10C B9D3C 5E98B
 4A921 30128 7177D 9D78B 6FBD8 98369 AEE91 03A7E 4C8E4 3DFA2
 D9744 898B9 634A6 F5957 A9D07 C9926 A41F8 2E09C 37763 376DB
 A4B44 2895F 4FD19 B3EF3 0A84E 5EC36 D2251 436A0 DCB69 2BFOC
 9DDE9 20BC2 745DC B663D 2B620 7E195 FCA33 8A63A 3DEA2 5D09D
 130FD 067BF 21FDB 2ED3A 32982 FE2AD 060F7 77A2C D54B3 5F4A1
 B9FE9 4DF30 637A6 F684C 1EBB7 34802 BF4D7 3B187 3684A 298F6
 56FB7 2BB0F 5BF8E D394A 6BD32 F4AD7 23D3C 5EF35 DF4F8 D69EB
 C38BE 79F1C F4683 0149F A318C 3800C 5360D 2E6BF 1B329 FFD81

8BE2F ABA6F 5E19A 89863 E725F 26FFA F1772 E76D9 C401E 671E3
71A40 3E6BE E8BA7 3CE74 23BDF 548A4 B98BC 74438 8D6D3 53C37
461E4 853 81384 6F62D AB87C C92D8 04278 52106 EEAED 0EB33
0F82A 744E2 E1255 FF129 2005E 1D439 55939 05A71 27EDB E15F5
9D1BA 0ADAB 3CD4A A4EC8 F9D56 BFB36 5BBA0 F4FDB E4163 29500
A8157 54DB0 99C05 C7F17 B99B6 DF7C4 1E1C1 00D54 E0A 6316E
63246 AB438 30CE5 2588B 32C61 7E8B0 4083B 34416 576DB 1E280
4F571 7BE34 522E6 168D1 27CA3 57521 D6D14 91B5D 2F3E2 F54D2
AEDEF 9AEC8 DC36E C3F04 66DEA DA109 F19F7 ADE20 95F80 4E9B2
C37F4 594DC 53811 DA815 E54DF E01B4 BE63C 7B0F2 92878 3837D
AEA16 ACF47 E29AE 76CB8 67258 3947F F64DD YD46D C3F6F
04AAB 17B75 BD80E 7AA7B B4303 EF5E0 1BB89 4B4C3 79A85 6792F
415E3 C5F9C 2E0B2 457D1 2E491 6DBA2 CEE1C 479C7 14ED7 2B134
4A661 11C06 4C0AF D9A8C 8659E A9722 A0DF5 E5E88 8DBF8 5C9E1
E4C80 420D8 C1077 A845C 1E448 2CB05 FF343 971E3 DF3 FC789
1BFC2 CADD8 C46D0 5AAF4 FAF39 3D7C7 D6B65 AF747 22FA9 8E5B0
E38FB 2F137 38CCD 15AVDMTX IPA6
IPTX IPTX IPTX IPTX IPTX IPTX IPTX IPTX IPTX IPTX

Sudanese diplomatic stations

21000 kHz, USB, various dates and times

MFA Khartoum wkg Sudanese embassy Yemen. Voice traffic

21002.2 kHz, Pactor-I 100/170, various dates and times

MFA Khartoum wkg Sudanese embassy Yemen. Callsigns: !0000 !8888 !9999

UTILITY ROUND-UP

Unid stations

5327 kHz, 19-11, 0737 UTC, CW, i.p. Copied by JPL

VVV 3FS DE 2KO QSU
SK SK T T

5717 kHz, 21-11, 0822 UTC, CW, i.p. Copied by JPL

K DE ?
AZ3 (x2) QSA 3 QRU VA
DE ? ?
CA1 CA1
QSA ? K
DE ? K
CA1 QSA 4 QSA? QRU VA
CA1 QSA 5 QRU VA
K
J2B DE U2B QSA ? K
J2B J2B DE U2B QSA ? K
QSA ? K
VVV VVV J2B J2B QSA ? K
W4R W4R QSA ? K
VVV O2B J2B J2B QSA ? K
QSA ? W4R W4R QSA ? K
W4R W4R QSA 5 QSA 5 QSA ? K
QRU SK
QRU SK
VVV J2B J2B QSA ? K
J2 J2B QSA 5 QSA 5 QSA ? QRU SK

JCS Foxtrot Messages & Emergency Action Messages

Joint Chief of Staff Emergency Action Messages and Foxtrot Messages

Frequencies: 4724, 6712, 6739, 8992, 11175, 13200, 15016 kHz

03-11, 2146 UTC	Leo Lion	30 chr EAM for Yankee Force E7G6YC 2YF4PJMHEHDARUKTSBGHBDPK
03-11, 2207 UTC	Leo Lion	30 chr EAM for Yankee Force E74XZ5 4S5YLJ52NUHUZ5DFHF17DVV5
04-11, 1510 UTC	Log Roll	36 chr EAM 4ZONHP CQODQWK2XNVCTWM5UTYALSUCWX27U7
04-11, 1514 UTC	Log Roll	36 chr EAM 4ZFTLL HXQXQHRVNGAH4GTHN6E6PI5ZQB2OYH
04-11, 1517 UTC	Log Roll	30 chr EAM 4Z4IGZ S7KW62QEHI67H6R2L7FUQNOX
04-11, 1520 UTC	Log Roll	30 chr EAM LVAPJ2 TOJT7ABSAO7G6YENSIUISIOX
04-11, 1530 UTC	Log Roll	30 chr EAM LVAPJ2 TOJT7ABSAO7G6YENSIUISIOX
04-11, 1533 UTC	Log Roll	36 chr EAM 4ZFTLL H disregard this transmission
04-11, 1535 UTC	Log Roll	30 chr EAM LVAPJ2 TOJT7ABSAO7G6YENSIUISIOX
04-11, 1537 UTC	Log Roll	36 chr EAM 4ZFTLL HXQXQHRVNGAH4GTHN6E6PI5ZQB2OYH
04-11, 1540 UTC	Log Roll	36 chr EAM 4ZONHP CQODQWK2XNVCTWM5UTYALSUCWX27U7
04-11, 1600 UTC	Log Roll	36 chr EAM 4ZONHP CQODQWK2XNVCTWM5UTYALSUCWX27U7
04-11, 1725 UTC	Log Roll	30 chr EAM for Zulu Force 4ZVQ7V KX3MLLVLJWKNLXPHT5N5EM2A4 disregard this transmission
04-11, 1730 UTC	Log Roll	30 chr EAM for Zulu Force 4ZVQ7V KX3MLLVLJWKNLXPHT5N5XM2A new operator
04-11, 1733 UTC	Log Roll	36 chr EAM 4ZONHP CQODQWK2XNVCTWM5UTYALSUCWX27U7
04-11, 1736 UTC	Log Roll	This is UTC Log Roll standing by for traffic
04-11, 1757 UTC	Log Roll	30 chr EAM for Zulu Force 4ZWZSH same operator as 1725 UTC, messing up
04-11, 1758 UTC	Log Roll	30 chr EAM for Zulu Force 4ZWZSH WZI14Z7FX7AF5YWKPO35JWZU
04-11, 1900 UTC	Log Roll	36 chr EAM 4ZONHP CQODQWK2XNVCTWM5UTYALSUCWX27U7
04-11, 2002 UTC	Log Roll	36 chr EAM 4ZONHP CQODQWK2XNVCTWM5UTYALSUCWX27U7
04-11, 2013 UTC	Log Roll	for Zulu Force 4ZU4YI AYFWCWZZY5RTZNUYX5NVODPS
04-11, 2018 UTC	Log Roll	for Zulu Force 4ZU4YI AYFWCWZZY5RTZNUYX5NVODPS
04-11, 2030 UTC	Log Roll	36 chr EAM 4ZONHP CQODQWK2XNVCTWM5UTYALSUCWX27U7
04-11, 2104 UTC	Log Roll	36 chr EAM 4ZONHP CQODQWK2XNVCTWM5UTYALSUCWX27U7
04-11, 2131 UTC	Log Roll	36 chr EAM 4ZONHP CQODQWK2XNVCTWM5UTYALSUCWX27U7
05-11, 1503 UTC	Fly Fish	30 chr EAM for Zulu Force 4ZMV7T FRP5QSZSWIGWPOUYNR47TDTX
05-11, 1508 UTC	Mainsail	test count
05-11, 1521 UTC	Fly Fish	30 chr EAM for Sierra Force 4ZHVFV D46TUZYQ33XBBS7T23JJBXD3
05-11, 1533 UTC	Fly Fish	30 chr EAM for Zulu Force 4ZJVHU J57FS2I2XAKPSFZEH2UXNYVZ
05-11, 1543 UTC	Fly Fish	30 chr EAM for Sierra Force 4ZOASW RXCUWS2VN5BWBWRYS3D72HW2
05-11, 1603 UTC	Fly Fish	30 chr EAM for Sierra Force 4ZGSLM WD3CPH5K257Y7WP7YQGOTNXI
05-11, 1733 UTC	Fly Fish	30 chr EAM for Sierra Force 4Z5JP2 ZNHYXCUHIS2RHOFQUTKHVKWP
05-11, 1757 UTC	Fly Fish	30 chr EAM for Sierra Force 4ZNQOT SLSD6NYXQA5OHAV2VNGEBK4L
07-11, 0701 UTC	Fast Draw	Skyking msg: Duran Duran Time 00 Auth XT
07-11, 0703 UTC	Fast Draw	207 chr EAM FFOU6A KUDJ75IIALR5ACXRLXW3IYPBALWBQLBZTR65KKQDFWPA3O607 YXMLNUACZQ6WW2DDPWWW5DXPDXWACCEWGINBREEX7OHH4F5W4GAGMS3VFFV33 OJWLJHOZZUAWPQ4CKSLSSKZS2X32LSTTQKGVHXBRRFGFYZ3U7C37J442YTH5WENDYGY3B OFHJW3VWWWILP77YM3VG
07-11, 0848 UTC	Fast Draw	276 chr EAM FF3K6Q VYIID66XJ4AUHZ3IEBRBDXX5FE62JJNIJOCWVWZKHMLRGXAWAN3FMZ C3TOL6HGJKZRUTNDHLAHOA7IISDOXOPL7BCYAP4NFUNPUWRRQCGTZQAYGOB65M6HE6LE XZZXGR3AJZIXJUNBOBQNBWNSYY7UCGDBXBL74VJW2BLVGEU4V67YEYDWEWOZJ4XOXZZFK WLCO3WIWKLIVVXGALVLIHCAJKGZMHMA6HSYBHZ5Y5GGZCEYK56WPWDHPCEIA5SESPQ EBZRRHUVQVV
07-11, 0901 UTC	Fast Draw	125 chr EAM FFG3S7 Y22FBSI5TNK3CGDDQCCVOZQ2MQMBSHREDTH5GGIFEYK56R5WRWZ CDVGU7ASPPIGBZ5BYP5QPQLQLXJRLYKKOIFWB625D5CXD5DIPPP2WCC54GIN2WPTMUN
07-11, 0909 UTC	Fast Draw	171 chr EAM FFAZT DXE6QZ2MP4SUZO2GUP63GJ6U5TK6DOIAHUIGII2DAXOPL3YKCY74P DUNUUDRR3UZTZQAIB6565MLKEKK6HZHNP3AJZQUN4UQOWGNBNBHYYZZ2GGG7YZKDK DWJ4VJJOZZTJPLCO3WDRLDFWYGAYGXEI2HRJ5U3I4HIQ
07-11, 1509 UTC	Fast Draw	97 chr EAM FF4AVE VU2INGF5DAB5IBC6N2VXYB6YDYGZ7CE3R3244PQTH25SHRZ4FTD2I3I UBI5UZENQYG3WBWJQJPOVV77DLPFFF4YAX
07-11, 1517 UTC	Fast Draw	97 chr EAM FFRMHU ULUOIQP4EOLRFZ17FMESZVZUH33OLLFDONZZAHTPTPHY7LECZGJHY SFOHBRCKHBN5FZS3XAQL3TTKQAV7DMBATAG
07-11, 1536 UTC	Fast Draw	97 chr EAM FFRMHU etc.

07-11, 1604 UTC	Fast Draw	97 chr EAM FFRMHU etc.
07-11, 1632 UTC	Fast Draw	97 chr EAM FF4AVE etc.
07-11, 1638 UTC	Fast Draw	97 chr EAM FFRMHU etc.
07-11, 1700 UTC	Fast Draw	97 chr EAM FF4AVE etc.
07-11, 1707 UTC	Fast Draw	97 chr EAM FFRMHU etc.
07-11, 1730 UTC	Fast Draw	97 chr EAM FF4AVE etc.
07-11, 1737 UTC	Fast Draw	97 chr EAM FFRMHU etc.
07-11, 1804 UTC	Fast Draw	97 chr EAM FF4AVE etc.
07-11, 1812 UTC	Fast Draw	97 chr EAM FFRMHU etc.
07-11, 2304 UTC	Fast Draw	30 chr EAM LV3BWX HIR25ZHPJIB6S5TD4BUESONJ
07-11, 2309 UTC	Fast Draw	30 chr EAM LVMD5F 7SA7TMNZZAPMVMGML3Q3NK6C
07-11, 2341 UTC	Fast Draw	30 chr EAM LVQJFP TNPKXLGPT47LGESEPMMV7Y3B
07-11, 2343 UTC	Fast Draw	30 chr EAM LV4UPD S3HKTWBT37PVTE6K5IQS6QZ
07-11, 2358 UTC	Fast Draw	30 chr EAM LVK3EX I2FH34CULQUQ2STRR7M4MVKV
08-11, 1732 UTC	Andy Gump	30 chr EAM LV2JYY EMZJPNFRZCDV6KL75YNOTNOS
08-11, 1752 UTC	Andy Gump	30 chr EAM LVWXCE N4KF7EB67KTWRKDYZQFGVK7T
08-11, 1832 UTC	Andy Gump	30 chr EAM LVNMXG BA47PZNOSYIDSYIA7IMBDFU
08-11, 2101 UTC	Andy Gump	30 chr EAM LV2DOI LTITSM74KB76OBOVQOTSQTKG
08-11, 2110 UTC	Andy Gump	30 chr EAM LVJ3EU A#####4EV#####2JENFTSTF # means silence. Technical problems?
08-11, 2128 UTC	Andy Gump	30 chr EAM LVMCXE D6LH4DG3QHSUSOC7GOH2OCXU Same problems as 2110z
08-11, 2132 UTC	Andy Gump	30 chr EAM LVGWTQ #####WE5 Same problem again
08-11, 2139 UTC	Andy Gump	30 chr EAM LV7HQM TKFHB6ZZWR37ZSZQ52K6L6J
08-11, 2201 Mil	Andy Gump	This is Andy Gump standing by for traffic. Andy Gump out
09-11, 0231 UTC	Sherlock	Skyking msg: Led Zeppelin Time 31 Auth OD
09-11, 1453 UTC	Sherlock	30 chr EAM LVNTCB RWNMA6QMMDLTOFP6GKVP5O2
09-11, 1457 UTC	Sherlock	30 chr EAM LV2GDT 6OSYPALNWFT26MQSZIX2HIU2
09-11, 1542 UTC	Sherlock	30 chr EAM 4Z2IAT 7TZWPJHEWDQD5OG76AK7F6CR
09-11, 1605 UTC	Sherlock	36 chr EAM 4ZMZH2 3QALJDQ2LG3WTBBIIMP5H6QO43HOIJ
09-11, 1656 UTC	Sherlock	52 chr EAM SHNOVR BDT7VUIYMDD44LI2RW3TEKHVFKLSB3TFKHGAXI5Z
09-11, 2027 UTC	Sherlock	30 chr EAM LVFI2Z I6TW7WII2ZMHOD43X3ZRA7BA
10-11, 1701 UTC	Diddy Bag	30 chr EAM LVF5FU KFF3RYHA2NGHYDGGZMYE7TJN
10-11, 1715 UTC	Diddy Bag	30 chr EAM LV5RAM 5OP3JDH45KN7AZPHE3EZ2OD6
10-11, 1730 UTC	Diddy Bag	30 chr EAM LVFOWP ZGKS6S2AXBQ32HAF7B5D5PXT
10-11, 1734 UTC	Diddy Bag	30 chr EAM LVRXSV K7KD6HLEH4LUTGCPFM5L4CMC
10-11, 1737 UTC	Diddy Bag	30 chr EAM LVXHBT ATKTFPJZIIYC6BTOUPVBNQEX
10-11, 1819 UTC	Diddy Bag	81 chr EAM FFBGCB CUGO2WVTKPRMBUJAGWYJWSHTNTT56KOUOHHIUIIIIMXSIXWBQGG3 P ILZ4TOQ2HXTX7R4ILTTOZCM
10-11, 1847 UTC	Diddy Bag	30 chr EAM for Peter-55 4ZFWX7 QMXGS2N7JTXZWQMP7M3JNTKL
10-11, 1918 UTC	Diddy Bag	30 chr EAM LV6OFI GD6IQ7M6N2LQJS6RC3DTIDZ7
11-11, 0416 UTC	Annually	Skyking msg: Springsteen time 12 auth PB
11-11, 1546 UTC	Annually	30 chr EAM LVUWYE Z5Q4IMIPJF23NCHSL4KUDZ3G
11-11, 1554 UTC	Annually	30 chr EAM LVHNZW BMVJEW3YCRITYGBABWH42XDK
11-11, 1615 UTC	Annually	30 chr EAM LVUMIH 3ROBDQO3QI4OZM2JE7H2TK7N
11-11, 1618 UTC	Annually	30 chr EAM LVLQCC JI7M6ZWBSGQ6LHLL7WXHJUMP
12-11, 1448 UTC	Ring Bone	30 chr EAM for Guilt-67 4Z5DDY VK7VXTMIOTFMWFAILO72F2IX
12-11, 1517 UTC	Ring Bone	30 chr EAM LVBZAZ XIMQQMCPG4VXW55YD4YQBNTQ
12-11, 1631 UTC	Ring Bone	This is Ring Bone standing by for traffic. Ring Bone out
12-11, 1648 UTC	Ring Bone	30 chr EAM LVJYBI YQIQDRGDJJ5UBGCIYT5FGDVR
12-11, 1657 UTC	Ring Bone	30 chr EAM LVEONG XCZJHPV5MIHEY5TB5NBECFAZ
12-11, 1850 UTC	Ring Bone	30 chr EAM for Moxie-67 4ZXZTH MWPVLKH3HPGLTAEFIGTPE2R
12-11, 1917 UTC	Ring Bone	30 chr EAM LV36CO DBNS2RVID5RZQXLYKIGJ4LG3
13-11, 1430 UTC	Tabulate	30 chr EAM LWCRRY ENSGUQHT6UYKGM4CLJAMHNNW
13-11, 1643 UTC	Tabulate	30 chr EAM LVQXNG CRMLXCZSB4NCLVHHBYAACLOU
13-11, 1653 UTC	Tabulate	30 chr EAM LV52N2 EVF4JCVF7QXSOY7IYNIDFS32
13-11, 1656 UTC	Tabulate	30 chr EAM LVIQWU QZFI44B7XN4K3IOA5AAP75KI
13-11, 1752 UTC	Tabulate	30 chr EAM for Deeds-73 4ZESTZ N6WAZ364ESF47N3XGD7MOS7H
13-11, 1818 UTC	Tabulate	30 chr EAM LV2QV2 YGQQA4VBIPNDZ2Q4WNN2GXEQ
13-11, 2234 UTC	Tabulate	30 chr EAM LVXM6H G7V2S6WJV27H5OTUKW3ZG73D
13-11, 2314 UTC	Tabulate	Skyking msg: The Cure Time 14 Auth VG
14-11, 0637 UTC	Clay Bank	30 chr EAM 4ZCHWW YDLZBMI4QBR6PIZ2N3AJCWVG
14-11, 0640 UTC	Clay Bank	30 chr EAM LVA66Q FPNYG6MD5LKC7OFO44TYRZG

14-11, 0701 UTC	Clay Bank	30 chr EAM LVR26H S5VZUZ7YDJ7Q6N2YAZFAPML3
14-11, 0714 UTC	Clay Bank	30 chr EAM LVNE4J ETXJRJWBZH2OPNQYG6Z7C2IM
14-11, 0716 UTC	Clay Bank	30 chr EAM LVPISG BL3Z6BHKAQ7AYWAUFVZIU5
14-11, 0725 UTC	Clay Bank	30 chr EAM LVLJLH DZ4V5NOJJW5LUSWCDZ4DQMFH
14-11, 0825 UTC	Clay Bank	30 chr EAM LVPQRA 2BKFIDMFZB7IBGUA5RRBJBY2
14-11, 0826 UTC	Clay Bank	30 chr EAM LV7YI3 UKEMW7TAWLPEO2DK7WUFOZLD
14-11, 0829 UTC	Clay Bank	30 chr EAM LVQQ4L W4USXSXP7EN56TIWFJIQ6QQK
14-11, 1502 Mil	Criteria	This is Criteria with a test count. Criteria out
14-11, 1504 Mil	Clay Bank	This is Clay Bank with a test count 123 321 Clay Bank out
14-11, 1555 UTC	Clay Bank	52 chr EAM 4Z2NQD HAZY7R367PPAO33JB7RQWZK3Y3JCBL3JBLR5ZFYMMWHVDO
14-11, 1615 UTC	Clay Bank	30 chr EAM 4ZRLS3 G5N5AGJ7AGXE2Z7P33OP4QEK
14-11, 1638 UTC	Clay Bank	30 chr EAM LVP76C YEM2L2LCYOZPNT7SVZ7TWKKS
14-11, 1657 UTC	Clay Bank	30 chr EAM 4Z72Z3 XHIHYQ23VATUWGQFZXOE4KR
14-11, 1704 UTC	Clay Bank	30 chr EAM LVRDHN BRIUE2PPPRXQHRLX6EICN4CS
14-11, 1746 UTC	Clay Bank	30 chr EAM LVIBJI VOPEE5X7AX5J6AKDTF256YJI
14-11, 2142 UTC	Clay Bank	30 chr EAM 4ZND4J BOIW2HZANWJP3AAD6CMFF4TY
15-11, 0631 UTC	Criteria	30 chr EAM LVP6M3 BAFFPCE635MSZLZDHLCSKQ7B
15-11, 0705 UTC	Criteria	30 chr EAM LVSSN D6U45OSWRI5PYKE3YBYGRTER
15-11, 1738 UTC	Criteria	30 chr EAM LVZBGE OQLFK6W7NYGW63KBJBZO3RNC
15-11, 1741 UTC	Criteria	30 chr EAM LVTEPA 3PUZYEUGZKBEZ6A165YZE6VQ
15-11, 1909 UTC	Criteria	30 chr EAM LVKDCI IACUOTMC6TXM5WNHEX4HFV3L
15-11, 1935 UTC	Criteria	30 chr EAM LV47NR J4KM3OLPTWQD73INVYN2X5JQ
15-11, 2104 UTC	Criteria	30 chr EAM for Azalea Trail 4ZVB4V XRHOKFD55FWBVIPOCXGPFCCB
16-11, 0241 UTC	Marigold	Skyking msg: Pink Floyd Time 41 Auth XP
16-11, 0253 UTC	Marigold	Skyking msg: Led Zeppelin Time 53 Auth YT
16-11, 0254 UTC	Marigold	Skyking msg: Kinks Time 54 Auth SW
16-11, 0536 UTC	Marigold	30 chr EAM LVYPTP WDPWRMXABXBZVPRZFF2NLG4C
16-11, 0539 UTC	Marigold	30 chr EAM LVM5FQ BWNXA2U24BSDILH7ZE6EGWLP
16-11, 0541 UTC	Marigold	30 chr EAM LV5ZTG OZBKPZAUPMGLCCIKKLJPYXB
16-11, 0552 UTC	Marigold	30 chr EAM LVE2YS BA6NP6BDW7D3HBM3NNG36VWC
16-11, 0558 UTC	Marigold	30 chr EAM LVSVYC WW32WPPHFHTIB53N2V3DF6OF
16-11, 1244 UTC	Marigold	30 chr EAM for Apprize 4ZV7II B2VA7KMJOTQWGP5MLYEQSW6
16-11, 1253 UTC	Marigold	30 chr EAM for Waiver 4ZIBKB L6Q7F4RCNQ774FKCT2ISIH7H
16-11, 1324 UTC	Marigold	30 chr EAM for Waiver for Apprize 4ZMHVK NFX3RSI36APNXC3GW6JNHL5Q
16-11, 1551 UTC	Marigold	30 chr EAM LVCFF 6PPEAGYPN4SKKCC3V2XZ26IN
16-11, 1555 UTC	Marigold	30 chr EAM LV7CC3 2CYDUUQRFOIRKU2H5UA5DMYR
16-11, 1623 UTC	Marigold	30 chr EAM LVT5EM 73KNETSASRAWMGGTNKMHP7UN
16-11, 1946 UTC	Marigold	30 chr EAM LVY4AO KVQRBAAWB4QAI3NTBT36OIXO
16-11, 2131 UTC	Marigold	30 chr EAM LV7ZD4 ZFISBWG3BEU46EGRTJHJUL3S
16-11, 2134 UTC	Marigold	30 chr EAM LV7ZD4 ZFISBWG3BEU46EGRTJHJUL3S
16-11, 2249 UTC	Marigold	30 chr EAM for Azalea Trail 4ZCWG7 - RAN2PSG2F45GEEC2UCOXHPOR
16-11, 2345 UTC	Marigold	30 chr EAM for Azalea Trail 4ZNZ5T - F7P6GTFCLTIZRBX7TRBSXAXC
16-11, 2329 UTC	Marigold	Skyking msg: Deep Purple Time 59 Auth XX
17-11, 0416 UTC	Sea Train	Skyking msg: Kinks Time 16 Auth IS
17-11, 0504 UTC	Sea Train	Skyking msg: The Birds Time 04 Auth EC
17-11, 0529 UTC	Sea Train	Skyking msg: Led Zeppelin Time 29 Auth KY
17-11, 0616 UTC	Sea Train	Skyking msg: The Birds Time 16 Auth OT
17-11, 0722 UTC	Sea Train	30 EAM LVJHHF TGLBWVPBFB5N3RQCZXMFCGOK
17-11, 0800 UTC	Sea Train	30 EAM LVJHHF TGLBWVPBFB5N3RQCZXMFCGOK
17-11, 0802 UTC	Sea Train	This is Sea Train standing by for traffic
17-11, 0859 UTC	Sea Train	30 EAM 4ZJR2B GRQXLW4MHZZYZPZHMC5WRQR
17-11, 0902 UTC	Sea Train	30 EAM LVJHHF TGLBWVPBFB5N3RQCZXMFCGOK
17-11, 0903 UTC	Sea Train	This is Sea Train standing by for traffic
17-11, 0911 UTC	Sea Train	30 EAM LVXVSA E476LBH33XUMTQEORG3WGY5A
17-11, 0920 UTC	Sea Train	30 EAM LVUOSV N62SDQEHWVEAWDIY5S6RRLBB
17-11, 1611 UTC	Sea Train	30 EAM PAWZ3I X4GJAYC2OITMSRG5GOJO2NRF
17-11, 1619 UTC	Sea Train	30 EAM PAPXQ7 25BZDLHROZKIAMVDMK3JAAO
17-11, 1636 UTC	Sea Train	30 EAM PAA42A KUIG4BWGMB6U2RF7FLIELTVS
17-11, 1748 UTC	Sea Train	30 EAM for Blow-97 4ZZD2P VDSFLDF55ZAJB5CFBKTUDV3K
17-11, 1817 UTC	Sea Train	30 EAM PA5QPW S2AD4PQIRWDVQN4T4ZZTH5MH
17-11, 2048 UTC	Sea Train	30 EAM PA2IB3 KJLZTQFX7GRPCICJMGFAEJDY

17-11, 2114 UTC	Sea Train	30 EAM PAOMYX 2BCAS76NF34NBKFBHACHHM5A2
17-11, 2118 UTC	Sea Train	30 EAM PAANPK HQA5DU3CPLU73N4INEQJGOWO
17-11, 2129 UTC	Sea Train	30 EAM PAN46Q TPURRXS2ZSUIRMM6BLKWPT3G
17-11, 2148 UTC	Sea Train	30 EAM for Fixit-97 4ZE75R VHIRBD7UFUTQTORVVIJ7MTO5
17-11, 2218 UTC	Sea Train	30 EAM PAQEYW OMGRJUPN466YXJHX4KPX3XHA
18-11, 0018 UTC	Ridge Box	Skyking msg: Shrek Time 18 Auth NC
18-11, 0540 UTC	Ridge Box	30 EAM PAFCGW 54RDSNH76JEB3S7ABFUYSYF
18-11, 0555 UTC	Ridge Box	30 EAM PALHLJ G4ES2ZW2BZFS5HI5TIXDIEK3
18-11, 0558 UTC	Ridge Box	30 EAM PAUQC2 LCLQDYIHSUYW4LGPTGY7UVX7
18-11, 0639 UTC	Ridge Box	30 EAM PA7DTM B56WFQWR4PNSEX6VKD5OJFS2
18-11, 0645 UTC	Ridge Box	30 EAM PAONJQ YSJFN4H3K4L6O5BB7HUOOJID
18-11, 0656 UTC	Ridge Box	30 EAM PACFLS 74THF4HSDYR7SA2K3BY7WCH
18-11, 0700 UTC	Ridge Box	30 EAM PAUQC2 LCLQDYIHSUYW4LGPTGY7UVX7
18-11, 0704 UTC	Ridge Box	30 EAM PAGT6R WP4XMNJRRAEQZNNPWQDMZ6II
18-11, 0706 UTC	Ridge Box	30 EAM PALHLJ G4ES2ZW2BZFS5HI5TIXDIEK3
18-11, 0709 UTC	Ridge Box	This is Ridge Box standing by for traffic
19-11, 0729 UTC	Iron Weed	30 chr EAM PACKKP BTXOTUJT4HB335TKWBYPE4G
19-11, 0742 UTC	Iron Weed	30 chr EAM PA75ZP 2TUEWN6EMUVSMOZGHYF36AE
19-11, 0751 UTC	Iron Weed	30 chr EAM PASY27 RJYRWZXC0AZEM3PTB6HBKESU
19-11, 0811 UTC	Iron Weed	30 chr EAM PAZ53K 4ETHO7HZSD6AWLLANZZSBKER
19-11, 0823 UTC	Iron Weed	30 chr EAM PAR4JP VQZ7DBWWCF3534YFTLQL42NA
19-11, 1643 UTC	Iron Weed	30 chr EAM PAZO46 KP3NHZCVGJ5L5IKUVNIPILDA
20-11, 0608 UTC	Offutt	Skyking msg: Gladiator Time 08 Auth XN
20-11, 0618 UTC	Offutt	Skyking msg: Whitesnake Time 18 Auth HL
20-11, 0732 UTC	Stringent	30 chr UTC PADWKK UCUCFMDMWI2NM7KBGCPLZADS
20-11, 0743 UTC	Stringent	30 chr UTC PATIRR AXLC2BI2QCWZLUOP2DQJPWH7
20-11, 0756 UTC	Stringent	30 chr UTC PA7TF4 KBI3KOAIG5SISIIN5NW5QFBW
20-11, 0759 UTC	Stringent	30 chr UTC PAPCXA DQPMQHOFN3IYBXL7QZVSWK6Q
20-11, 1549 UTC	Stringent	30 chr UTC PACLX2 KZVXBXYON4A2GEKBYI6TP574
20-11, 1621 UTC	Stringent	30 chr UTC PAWDXQ EVMEZIJEGZZ8QXZL7FH2FOUB
20-11, 1624 UTC	Stringent	30 chr UTC PA4G5W IYRKK5SAIYBLPIPIRYZVISB4
20-11, 1639 UTC	Stringent	30 chr UTC PAQWPH UPVWBONFQNLX5LBE7MJX27HW
20-11, 2050 UTC	Stringent	30 chr UTC for Trite-16 4ZWJOW AQAENZWNTPU7YVLE2G5Y57T3
20-11, 2117 UTC	Stringent	30 chr UTC PAKVSR P4XFGUOQQXWHBN27F3A5CPSI
21-11, 0401 UTC	Blue Chip	Skyking msg: Poison Time 01 Auth KO
21-11, 0407 UTC	Blue Chip	Skyking msg: Outfield Time 07 Auth RT
21-11, 0653 UTC	Blue Chip	30 chr EAM PAHFXP IUJHRPK3OWPAPKAP3FHNIC4Z
21-11, 1607 UTC	Blue Chip	52 chr EAM 4ZTHOO SLCSZPDDUNIJDNYH2YU2JT7AT4BZMMYH2WU3GNZYNWAKL2
21-11, 1640 UTC	Blue Chip	30 chr EAM 4ZWB6C JEQRYP2OPPEPMIVJMTF4ACVA
21-11, 1701 UTC	Blue Chip	30 chr EAM PA2T5A NHL3Q2EKVKOB7BKZ3CPPSWVZ
21-11, 1706 UTC	Blue Chip	30 chr EAM PAB6TJ SQ2RLQPQD7ITO6MBVPUOMAGH
21-11, 1713 UTC	Blue Chip	30 chr EAM PA2T5A NHL3Q2EKVKOB7BKZ3CPPSWVZ
21-11, 1715 UTC	Blue Chip	30 chr EAM PAB6TJ SQ2RLQPQD7ITO6MBVPUOMAGH
21-11, 1719 UTC	Blue Chip	30 chr EAM 4ZQJLI S6WQBPGWGEAFKEIT5YX4OMWR
21-11, 1726 UTC	Blue Chip	30 chr EAM PAPPZH Y7S2ZVSPFCD5WCBADOY7ZVT5
21-11, 1834 UTC	Blue Chip	30 chr EAM PAKBHP 6BCSBXV6URPDKGEWHJSASTG2
21-11, 1847 UTC	Blue Chip	30 chr EAM PAKBHP 6BCSBXV6URPDK stops
21-11, 1910 UTC	Blue Chip	52 chr EAM 4ZXQL2 CXPFTZK4HRPMUCRG227RG2M3WYCZEEUWLNMMWYBZVHLV7CR
22-11, 0539 UTC	Irishman	Skyking msg: Lenard Time 39 Auth KY
22-11, 0617 UTC	Irishman	Skyking msg: The Cars Time 17 Auth BI
22-11, 0753 UTC	Irishman	30 chr EAM PACRNX TXDLKB2ZK7AS6DE74UP4P3HE
22-11, 1259 UTC	Irishman	30 chr EAM PA4YBI WZTJ3YLKVP3Z33KDUI5UFD
22-11, 1307 UTC	Irishman	30 chr EAM PASGGA 3F7KCOKTULX2L65IUTR663T5
22-11, 1500 UTC	Irishman	30 chr EAM PACQS4 6QZNAGA3OMZ3ESKUS2RWKJYK
22-11, 1522 UTC	Irishman	30 chr EAM PAVHVR PBFIRLLHW3J6W5GH5UND67QA
22-11, 1603 UTC	Irishman	56 chr EAM IR#TER U5SDKZ6CKMO3J3K56MHAHALSD#2Q7EAAFGWUU repeat IRSTER U5SDKZCKMOF3IWK56MHAHALSDKT6V3J4D64EHZJN7Z2NN2GKQ # means silence. Technical problems? 1st # was 1 min, 2nd # was 30 secs
22-11, 1738 UTC	Irishman	107 chr EAM IR7SXH 3Y6KZR4YVD7UVHFO46PAQOGSAIRBXIYGSSNYIWCUVIOEVVVEDEGGG G4CQX3AHNQRRYUAKKRV23MMY3YSJJJ7WO2NYIKK3XN6G7GY
22-11, 1833 UTC	Irishman	30 chr EAM PAY7UU G43WLWAR74ZSIU4OLIOFIIBN

22-11, 1942 UTC	Irishman	30 chr EAM PAD2HF I13X5DBWN46CAYW27PE226N4
22-11, 2104 UTC	Irishman	30 chr EAM PACDH6 4SCBHA2XCHT5W5LVZKQR3TWN
22-11, 2107 UTC	Irishman	30 chr EAM PASICY HATFAZHFKYZVC6XL33HCENB
22-11, 2151 UTC	Irishman	30 chr EAM PANEIY disregard
22-11, 2153 UTC	Irishman	30 chr EAM PANEIY 70O3XRY2UZKC5X7I7CTRHYCM
22-11, 2156 UTC	Irishman	30 chr EAM PALPRP EP354D7BMLYW5QA5MCGDRRCM
22-11, 2255 UTC	Irishman	30 chr EAM PAMDSS XTZBIA5EL2PFVZWZHRPMDIXS
22-11, 2308 UTC	Irishman	30 chr EAM PAISCH NYVF3KNZJANUAMUNWTCC7Y3Y
22-11, 2312 UTC	Irishman	30 chr EAM PAISCH NYVF3KNZJAEQANUNWTCC7Y3Y
23-11, 0402 UTC	Executive	Skyking msg: Top Gun Time 02 ER
23-11, 0626 UTC	Executive	30 chr EAM PANXW4 7Y3MSNS6G57PZNBH5KKDBFCJ
23-11, 0628 UTC	Executive	30 chr EAM PA6ZKS XMUCKTN4YTQBGGQDHO7NUP7GP
23-11, 0630 UTC	Executive	30 chr EAM PAJKJT UF4B62QVZVGFE05RL5WN77M3
23-11, 0649 UTC	Executive	30 chr EAM PAFPJY OXIAJV26AOSOOEKOKDIXAPDX
23-11, 0652 UTC	Executive	30 chr EAM PAX5HV TYMSRREDJEWBHMUBYAS6QHMA3
23-11, 1405 UTC	Executive	30 chr EAM PAK4OX NGRPUZPP2EXTE3CPJG4BIGN
23-11, 1427 UTC	Second Date	30 chr EAM PAHDBR YO756LWHVR4CRGETWV7NLRFW
23-11, 1431 UTC	Second Date	Second Date standing by for traffic
23-11, 1450 UTC	Second Date	30 chr EAM PAKPGK 32LGNPLP4PBGVGFDDWHL65ZG
23-11, 1959 UTC	Detended	30 chr EAM PAJW7K VGSYCGSBENGEC2UC3Q57HJZY
23-11, 2008 UTC	Second Date	30 chr EAM PA2AOZ 7CJTNHWDXSKJZQV2HOKD6SLN
24-11, 0527 UTC	Autoshop	30 chr EAM PA5XHD RZYMNYGX4Q4HWHRX2AZ5RT3T
24-11, 0530 UTC	Autoshop	30 chr EAM PAVMHM RRH2635OIUEXQXOPKFCIKYZQ
24-11, 1508 UTC	Autoshop	56 chr EAM IRXBU3 KZ5V47VPDXUQEHIPT4IDSOACOTYZFHGFTFG442LKJ6DYICYOM
24-11, 1514 UTC	Autoshop	56 chr EAM IR5T3L ZCVFG3BGAIN4RX22OXURSOHMAHEGCWOLWEWLIICOWBVBOOCHUK
24-11, 1533 UTC	Autoshop	56 chr EAM IR5T3L ZCVFG3BGAIN4RX22OXURSOHMAHEGCWOLWEWLIICOWBVBOOCHUK
24-11, 1538 UTC	Autoshop	56 chr EAM IRXBU3 KZ5V47VPDXUQEHIPT4IDSOACOTYZFHGFTFG442LKJ6DYICYOM
24-11, 1543 UTC	Autoshop	This is Autoshop standing by for traffic
24-11, 1600 UTC	Autoshop	56 chr EAM IR5T3L ZCVFG3BGAIN4RX22OXURSOHMAHEGCWOLWEWLIICOWBVBOOCHUK
24-11, 1604 UTC	Autoshop	56 chr EAM IRXBU3 KZ5V47VPDXUQEHIPT4IDSOACOTYZFHGFTFG442LKJ6DYICYOM
24-11, 1630 UTC	Autoshop	56 chr EAM IR5T3L ZCVFG3BGAIN4RX22OXURSOHMAHEGCWOLWEWLIICOWBVBOOCHUK
24-11, 1634 UTC	Autoshop	56 chr EAM IRXBU3 KZ5V47VPDXUQEHIPT4IDSOACOTYZFHGFTFG442LKJ6DYICYOM
24-11, 1700 UTC	Autoshop	56 chr EAM IR5T3L ZCVFG3BGAIN4RX22OXURSOHMAHEGCWOLWEWLIICOWBVBOOCHUK
24-11, 1704 UTC	Autoshop	56 chr EAM IRXBU3 KZ5V47VPDXUQEHIPT4IDSOACOTYZFHGFTFG442LKJ6DYICYOM
24-11, 1710 UTC	Autoshop	30 chr EAM PAU27L NJRVI6427NI2UBDIJ5V7BOTU
24-11, 1713 UTC	Autoshop	30 chr EAM PAU27L NJRVI6427NI2UBDIJ5V7BOTU
24-11, 1717 UTC	Autoshop	30 chr EAM PAOYTB D6Y26MPJUXY2F72PH6Q54JVT
25-11, 1847 UTC	Nightfall	30 chr EAM for Tally-46 4ZJOMM VOAVZX42MUEYZS6JMJDS2NF4
25-11, 1917 UTC	Nightfall	30 chr EAM PAXISG 46MVV3LJH7ZMKIJXCEOLIIFB
25-11, 2253 UTC	Nightfall	30 chr EAM PABBEE HMEY2UGN2ZRL5VN5DSKVYASC
25-11, 2335 UTC	Nightfall	30 chr EAM PABBEE disregard
25-11, 2303 UTC	Nightfall	30 chr EAM PAWQNC 2R4HV6DJ65AITJT5VVOPPBWY
25-11, 2318 UTC	Nightfall	30 chr EAM PAKRSH ZREFX5JPNSWNIIBONHLWT7E6
26-11, 0120 UTC	Potluck	30 chr EAM PA6CKN H2Y7F7R2PZZ55XPBOCTVJJ33
26-11, 0508 UTC	Potluck	30 chr EAM PA4FRY 2AEW13CYTFOR4WKO24XZOHRJ
26-11, 0540 UTC	Potluck	30 chr EAM PAL4F7 HFUOYHAOBUZ625VWRL6UU6R4
26-11, 1418 UTC	Potluck	30 chr EAM PAJ5MO DA3L4IIPERDAMTNQ5PDYREBB
26-11, 1421 UTC	Potluck	30 chr EAM PATD3P XZOFQ5V76QPCPQNYMX5INFPK
26-11, 1429 UTC	Potluck	30 chr EAM PAUVGW PWOZW45VFRTLTEP6CHELDDMW
26-11, 1448 UTC	Potluck	30 chr EAM PA67Q6 7MFR5AKAFWTVNH3X4742RYPZ
26-11, 1452 UTC	Potluck	30 chr EAM PADTZF QPEMHXGORPM54BQ3G52DDILY
26-11, 2053 UTC	Potluck	30 chr EAM PAABF4 N57A2CHOD3NIKH5H3S4YZQBB
26-11, 2107 UTC	Potluck	30 chr EAM PAPMK3 WF3M2H2DCAPEWHPKTWBOPRFL disregard this transmission
26-11, 2109 UTC	Potluck	30 chr EAM PAPMK3 WF3M2H2DCAPEWHPKTWBOPTFL
26-11, 2111 UTC	Potluck	30 chr EAM PABPF6 DU377L75ENJ7PJOEGSO5MAV4
26-11, 2117 UTC	Potluck	30 chr EAM PAYPWA VZO2ALR2QKFI6XPUSQ6HIBYJ
26-11, 2139 UTC	Potluck	30 chr EAM PABL3G OXBKVTHTQ75ZBLPC4TV3REIX
26-11, 2148 UTC	Potluck	30 chr EAM PAUXVA AX3A7CXJIRMHNHHFLSM4IYX5
26-11, 2154 UTC	Potluck	30 chr EAM PAW3WO EX3735INIABV2A7C47THXM6B
26-11, 2229 UTC	Potluck	30 chr EAM PA57GG K7JO5BGRVJ3SLYFQWVUPTIA4
26-11, 2231 UTC	Potluck	30 chr EAM PA4LIJ T24JBY6CSRRFRUDKMMF52A7

27-11, 0837 UTC	Compress	30 chr EAM PAHBAH LZLJ6SRS224TFCRSGUUIIOMN
27-11, 1420 UTC	Compress	30 chr EAM PA6CKN H2Y7F7R2PZZ55XPBOCTVJJ33
27-11, 1906 UTC	Compress	30 chr EAM for Pork-58 4ZFSG4 FSZNLZLQGQH37KFZ7PASCQQS
27-11, 1910 UTC	Compress	30 chr EAM PAGVWW JR4DWP4ZW6A2QUCC7XOXM3DQ
27-11, 1913 UTC	Compress	30 chr EAM PABCKG XM6AFV2RWJTIFNEYM2YAW7AV
27-11, 1918 UTC	Compress	30 chr EAM PAZ3IH OHQOJNU2XQXY6I4HTZE3PMCU
27-11, 1955 UTC	Compress	30 chr EAM FIZSVV LQYYP4PK4GHACA4RGQRZEDWR
27-11, 2025 UTC	Compress	30 chr EAM PAZDHY 4VKLFDT6TQMD2AXDB4Y6UJOT
27-11, 2036 UTC	Compress	30 chr EAM PATZHO R2F3C22TYT4N6JAUQAQBYF246
27-11, 2049 UTC	Compress	30 chr EAM for Pepto-58 FIUXYA CKV2PUGEKSA64T7SQM4BXNTZ
27-11, 2118 UTC	Compress	30 chr EAM PAJMQG FZVYBH3ZASHK4WI3FPYVK2IX
28-11, 0035 UTC	Act Wise	30 chr EAM PA4NF3 IKQBL7LGBZYJYNS6QXP7ODRV
28-11, 0229 UTC	Act Wise	30 chr EAM for Box Office FI4YRW QKF6QJXJNOX6LEYMVMDFYCCS
28-11, 0236 UTC	Act Wise	Skyking msg: Police Time 36 Auth KI
28-11, 0322 UTC	Act Wise	30 chr EAM FIJEDS ZQB5DUEFQEAZ2DWHY4KIFCX2
28-11, 0354 UTC	Act Wise	Skyking msg: White Snake Time 54 Auth SN
28-11, 0826 UTC	Act Wise	30 chr EAM PA3G5F VWIBPRNGO2MY2TR76QZ7QYHB
28-11, 0833 UTC	Act Wise	30 chr EAM PADN3Y 2RSWL7VN4VMFEDXDBLESNBLF
28-11, 1324 UTC	Act Wise	30 chr EAM PAAYYY QOQJJ2ME2ZORISA6WVRCYCED
28-11, 2134 UTC	Act Wise	30 chr EAM PA3D27 6BYU6UEEMPP6M7XRIFIY5JGC
28-11, 2204 UTC	Act Wise	30 chr EAM PAOK7A Y6UF6EYCPFNQ7ERBFI22CAL5
28-11, 2233 UTC	Act Wise	30 chr EAM PAQ7GG PJ5A3FXIU4XNKXBSLXOTT4I3
28-11, 2236 UTC	Act Wise	30 chr EAM PA7HL3 A5G6BPFGLNLG5CJXAUQXYTZ
29-11, 0146 UTC	Absence	Skyking msg: The Birds Time 46 Auth MC
29-11, 0401 UTC	Absence	30 chr EAM PAJBDN CATHPEZUCYTZNMNS6YN57SW
29-11, 0406 UTC	Absence	30 chr EAM PA6NDG 7Q4KKYE6UUO6JRIME4O6TPGI
29-11, 0422 UTC	Absence	Skyking msg: The Birds Time 22 Auth FI
29-11, 0829 UTC	Absence	30 chr EAM DGNGHK O63LJEEA76RI3V7N26WICLK4
29-11, 1552 UTC	Absence	56 chr EAM IREDCM XA4VTXAYD2H4UEGCJXWQ5C76JEGWIOBKW7K7CCCCAUUVWXGGU3
29-11, 1729 UTC	Absence	100 chr EAM IRJP7M F3U5PY5QABKSVIRJIPUTELIQI7IY7UUG6U6GCCCCUDBV4GVZLUT5CD TZ3NONNFCFLFRRRRGLK7LGZEU3H4ZJXSWLSUXCX2
29-11, 1937 UTC	Absence	30 chr EAM DG4L4F 7NDSRN2RI6OMHPPMKM3K6SM2
29-11, 2148 UTC	Absence	30 chr EAM DGN4CP BVJ3AN672SYOH6P3JI4QP4UY
29-11, 2334 UTC	Absence	30 chr EAM DGZJHS H62OJHBCWDCVPHHSNT7Q7TEO
29-11, 2336 UTC	Absence	30 chr EAM DG6ALF TM3NNSSF7GPRTLO5MQFTS3FX
29-11, 2338 UTC	Absence	30 chr EAM DGQMSO 5LHWNT2UNND4KKT3RICWH5LD
30-11, 0003 UTC	Variable	30 chr EAM DGLNNJ XNFOFVRVXAWUINELMIDMCY6M
30-11, 0239 UTC	Variable	30 chr EAM DGAGH7 EOYKWMXSMTRFPKVAVJLFMT6L
30-11, 0246 UTC	Variable	30 chr EAM DGUR3V LMEDA3DQ4J2PWAL52UMCSBDT
30-11, 0305 UTC	Variable	30 chr EAM DGERHA TOIXN44RDHSKFVB2BW4DWFNL
30-11, 0307 UTC	Variable	30 chr EAM FIE3YS DA4X3XUNHW7RKRRNOULJY5A6
30-11, 0316 UTC	Variable	Skyking msg: Heartbreaker Time 16 Auth OF
30-11, 0325 UTC	Variable	30 chr EAM DG7AOB OR3RT576T34XLCPRB6F7V73H
30-11, 0334 UTC	Variable	30 chr EAM DGYRSF T7FPGNTWYM6242XLTWCUE4WG
30-11, 0638 UTC	Variable	30 chr EAM DGQE44 Q6WYMY2TF06WZQS7WKSTD2JO
30-11, 0710 UTC	Variable	30 chr EAM DGY5CE R7SA5VF5LYFATSZ3XUMDOHD
30-11, 0731 UTC	Variable	30 chr EAM DG6TKT FUD2NNHLE4SELN5UMQEUBNFN
30-11, 0733 UTC	Variable	30 chr EAM DGHZLT 7WN432Y73HP7Q42JLVDZ2NER
30-11, 0741 UTC	Variable	30 chr EAM DGKUX 23COSTSJUF7JLYOYVIH27F
30-11, 0807 UTC	Variable	30 chr EAM DGHMZK WJ4VJOGT4TOMIBKO73REILXN
30-11, 1502 UTC	Variable	30 chr EAM DGLR4E COFJXBGKJTVDFR3MMFKIKSM
30-11, 1523 UTC	Variable	30 chr EAM DGE4RC EHCCAHWUHM3CV56CY5SCOP7
30-11, 1526 UTC	Variable	30 chr EAM DGAHOC 43TEXUBQ2NEAHGL52INFFVDZ
30-11, 1528 UTC	Variable	30 chr EAM DGA7T7 WAEYQJQKWAOQ5AJMQCZZYEDO
30-11, 1710 UTC	Variable	30 chr EAM DGSMYV ZIKTUKG7TXKEKPUMNNHH4VGL
30-11, 1839 UTC	Variable	30 chr EAM DGCIAI ECMFIDGBODGAQBGVBFSJL5ZD
30-11, 1933 UTC	Variable	30 chr EAM DGG6OQ 2J7J67EUXXOKJDNHSARGR76K

RUSSIAN MILITARY TRANSCRIPTS

Excerpts from logs submitted by WP3, AnEur, JPL, and AB

M32 - Russian / CIS Military CW Stations

AnEur is following this net for months now. The conditions have been poor for these frequencies.

Frequencies and callsigns per 1 November

Net control 5596 kHz, out stations 5693 kHz

Net Control: 1U9U

Collective callsign: ???

Out stations: KFLS, KSSA, ZNMI, O3AS, OWJ2

Callsigns per 11 November

Net Control : T89A

Collective callsign : ???

Out stations : FLJZ, TV8X, IXTO, Y4S2, DN2Y

Logs:

5596 kHz, 08-11, 1500 UTC, 1U9U wkg KFLS

KSSA 1U9U

ZNMI 1U9U (QDK QSA?)

O3AS 1U9U

OWJ2 1U9U

5596 kHz, 08-11, 1518 UTC, 1U9U wkg KSSA

ZQW ZHO ZBG QYT4

5596 kHz, 08-11, 1536 UTC, 1U9U wkg KSSA

ZXP ZVX ZZZ QYT4

5596 kHz, 16-11, 1603 UTC

T89A wkg FLJZ, TV8X, IXTO, Y4S2, DN2Y

5771 kHz, 13-11, 1158 UTC

VVV 2TF7 2TF7 2TF7 DE LDLS LDLS K

VVV 2TF7 DE 5ZPL K (Appears to be same station that sent LDLS)

2TF7 DE 5ZPL K

7691 kHz, 16-11, 0728 UTC. See also N&O #235

7807 = 6355 = 7579 = 3896 = 0903 = 8564 = 7797 = 0890 = 7309 =

9375 = 9049 = 5855 = 1787 = 3541 = 2017 = 1909 = 2033 = 6669 =

7657 = 3168 = 1806 = 1378 = 3388 = 8745 = 1252 = 2305 = 5319 =

7491 = 6479 = 0825 = 1617 = 0438 = 4713 = 2803 = 4312 = 0388

GR 110 =

0388 = 8214 = 9950 = 7619 = 4338 = 4681 = etc.

M AR

K QSA 3 k

R

K QSA 3 K

.... DE WDIT = KARNIZ 8090 K

4245 kHz, 20-11, 1204 UTC, i.p

BVPN DE SPXL K
TFXP DE SPXL K
VVV
TFXP DE SPXL K
C9IA DE SPXL K
C9IA DE SPXL K
OF4G DE SPXL K
OF4G DE SPXL K
2NBO DE SPXL K
VFHN DE SPXL K
R K
MG8I DE SPXL K
R K
2NBO (x3) DE SPXL (x2) QTC 053 30 20 1505 053 =
134 348 095 =
PPPPP AGBNL SQFAD (Cont'd)

4567 kHz, 27-11, 0805 UTC

XXX XXX LMGV LMGV 33359 KALXKA 74951 33359 KALXKA 74951 K

11468//14411 kHz, 29-11

1258 UTC XXX XXX RDL RDL 01140 71212 TIRSONII 6688 9688
1300 UTC XXX XXX RDL RDL 73420 28974 BUZOTERSKIJ 7316 7382
1303 UTC XXX XXX RDL RDL 81057 94585 UVAZOKREZ 9504 7307
1306 UTC XXX XXX RDL RDL 28757 94240 TROSOKOKK 9705 2899
1313 UTC XXX XXX RDL RDL 94768 10160 FONOZYK 0871 9710
1315 UTC UUUUU XXX XXX UUUUU XXX XXX RDL RDL 49666 58261 STUKOVMYH 7666 7760
1322 UTC XXX XXX RDL RDL 52831 07465 TEROSPLAW 5701 1043
1327 UTC XXX XXX RDL RDL 73021 76725 TEHOTDEL 9024 8420
1337 UTC XXX XXX RDL RDL 89712 30450 RUANDA 6293 2650
1343 UTC XXX XXX RDL RDL 60793 43876 URUeKOPLES 0675 7644
1348 UTC XXX XXX RDL RDL 54294 21725 BOLTOWOL 7036 7154
1437 UTC XXX XXX RDL RDL 58910 65667 SKOSOLXEW 6755 9256
1440 UTC XXX XXX RDL RDL 35246 72455 OeALOSYR 4375 8661
1433 UTC XXX XXX RDL RDL 11442 57970 HLAMOBOL 4638 9457
1444 UTC XXX XXX RDL RDL 00205 94292 GNEWLIWYJ 6933 4353

10064 kHz, 30-11, 0910 UTC

QSA 1 QSA ? K
QSA 1 QSA ? K
R K
W6HZ DE L2SE K
QSA 4 QSA K EEEE QSA 4 QSA ? K
R K
5FAM DE L2SE K
QSA 2 QSA ? K
R K
JQS5 DE L2SE K
JQS5 DE L2SE K
JQS5 DE L2 SE K
7SDS DE L2SE K
.... DE L2SE K
QSA 1 QSA ? K
R K

4725 kHz, 27-11, 1555 UTC

XXX XXX Y2VU Y2VU 82720 82720
XXX XXX Y2VU Y2VU 82720 82720 K
R K R K

4725 kHz, 27-11, 1643 UTC, i.p.

INDZ DE O1PE QSA? K
KUVS DE
KUVS DE
O1PE QSA?K
QSA1 R K
PAQI DE O1PE QSA? K
RPT K
QSA1 R K
P1FV DE O1PE QSA? K
QSA1 R K

4725 kHz, 27-11, 1847 UTC

KUVS DE O1PE QSA? K
VVV O1PE ZAE ZCC QLS QSW 3 K
O1PE ZAE ZCC QLS QSW 3 K
O1PE ZAE ZCC QLS QSW 3 K
RPT K
RPT K
OK K AS
O1PE K
RPT K
RPT K

4725 kHz, 27-11, 2259 UTC

VVV KUVS DE O1PE QSA? K
QSA2 R K
P1FV DE O1PE QSA? K
QSA1 R K

4725 kHz, 28-11, 0047 UTC

VVV VVV P1FV DE O1PEK P1FV DE O1PE K
P1FV DE O1PE K
VVV P1FV DE O1PEK
VVV P1FV DE O1PE K
P1FV DE O1PE K

4725 kHz, 28-11, 1545 UTC

XXX XXX Y2VU Y2VU 82820 82820
XXX XXX Y2VU Y2VU 82820 82820 K

4725 kHz, 28-11, 1651 UTC

VVV VVV KUVS DE O1PE QSA? K
PAQI DE O1PE QSA? K
P1FV DE O1PE QSA? K
KUVS DE O1PE QSA? K
PAQI
RPT K
RPT K
RPT K
RPT K
KUVS DE O1PE QSA? K
PAQI DE O1PE QSA? K
P1FV DE O1PE QSA? K
RPT K
QSA1 O1PE R K

PAQI DE O1PE QSA? K
KUVS DE O1PE QSA? K
RPT K
RPT K

4725 kHz, 28-11, 1708 UTC

VVV VVV VVV VVV VVV KUVS DE O1PE K

M32a - Russian Navy (Voyenno-Morskoy Flot Rossii)

6319 kHz, 27-11, 0743 UTC

XXX XXX RLO RLO FFFTI. J 01 1355 065 135 1038 K

M32b - Russian Naval Aviation (Aviatsiya Voennno-morskogo Flota Rossii)

8816 kHz, 02-11, 0928 UTC

RJF94 RJC38 DE 75255 QAY XLPB 0923 QBD 0630 QBG 8200 K
QAY XLWC 0952 QRE 1040 K
QQM XUMO 1036 SK

8816 kHz, 02-11, 1242 UTC

RJF94 RJC38 DE 75255 QTO 1235 QRD XLLP XUMO QRE 1345 QBD 0830 K
QTH 15824 13323 QBD 0705 QRE 1405 K
QQM XLLP 1400 SK

8816 kHz, 02-11, 1421 UTC

RJF94 RJC38 DE 75253 QTO 1400 QRD XLMV XLAA QBD 0700 QRE XLMV 1530 K
QQM XLMV 1535 SK

8816 kHz, 03-11, 1159 UTC

RJC38 RJF94 DE 75255 QTO 1148 QRD XUMO XLLP QRE 1410 QBD 0730 K
QQM XUMO 1303 SK

8816 kHz, 03-11, 1801 UTC

RJC38 RJF94 DE 75255 QTO 1748 QRD XLMV XUMO QRE 2110 QBD 0920 K

8816 kHz, 06-11, 0947 UTC

RJC38 RJF94 DE 45557 QQL ULPE 0946 QBG 9450 K
QTH 6002 3745 QTR 1024 QRE XUMU 1120 K
QQM XUMU 1111 SK

8816 kHz, 08-11

RJF94 RJC38 DE 75255 QTO 1620 QRD XLMV XUMO QBD 0700 QRE 1920 K

8816 kHz, 08-11, 1138 UTC

RJF94 RJC38 DE 08032 QTO 1125 QRD XLMV XLAP QRE 1315 QBD 0600 K
QTH 16607 13913 QTR 1225 QBG 6700 K
QQM XLMV 1325 SK

8816 kHz, 08-11, 1145 UTC

RJF94 RJC38 DE 52672 QTO 1130 QRD XLMV XLAP QBD 0530 QRE 1400 K
QTH 16527 14016 QTR 1230 QBG 5500 QRE XLMV 1330 K
QQM XLMV 1405 SK

8816 kHz, 08-11, 1547 UTC

RJF94 RJC38 DE 52672 QTO 1535 QRD XLAP XLMV QBD 0430 QRE 1735 K
QTH 16557 13417 QTR 1635 QBG 5800 QRE XLAP 1735 K

8816 kHz, 13-11, 0840 UTC

RJF94 RJC38 DE 75255 QQL ULPE 0837 QBD 0530 QBG 8200 K
QAY XLPB 0912 QBD 0450 QRE 0950 K
QQM XLLV 0948 SK

8816 kHz, 13-11, 1411 UTC

RJF94 RJC38 DE 08032 QTO 1400 QRD XLWF XLAP QRE 1505 QBD 0730 K
QQM XLWF 1505 SK

8816 kHz, 13-11, 1515 UTC

RJF94 RJC38 DE 08032 QTO 1507 QRD XLAP XLWF QRE 1615 QBD 0600 K
QQM XLAP 16.. SK

8816 kHz, 27-11, 0716 UTC

RJF94 RJC38 DE 45557 QTO 0700 QRD XLLV XLMV QRE 0840 QBD 0435 K
QQL ULPE 0755 QBG 9750 QRE XLLV 0850 K
QQM XLLV 0851 SK

8816 kHz, 27-11, 0929 UTC

RJC38 RJF94 DE 26675 QTO 0914 QRD XLMG XUMO QRE 1244 QBD 0540 K
QTH 16001 13745 QTR 1028 QBG 5500 QBD 0440 K
QTH 16419 13458 QTR 1127 QBG 5500 QBD 0330 QRE XMLG 1230 K
QQM XLMG 1244 SK

8816 kHz, 27-11, 1210 UTC

RJF94 RJC38 DE 45557 QTO 1200 QRD XLMV XLLV QRE 1340 QBD 0435 K
QQL ULPE 1247 QBG 9450 QRE XLMV 1335 K
QQM XLMV 1337 SK

8816 kHz, 27-11, 1335 UTC

RJC38 RJF94 DE 26675 QTO 1332 QRD XLMV XLMG QRE 1357 QBD 0200 K
QQM XLMV 1402 SK

LOGS SECTION

Code	Freq	Date	UTC	Day	Details	Mode	ctrb
---	5023	16-11	0702	Thu	i.p. VVV A35 (x3) DE SFR (x2) QSA ? K ... QRU QRU XG3 (x3) QRU SK VVV NDW4 VVV	CW	(JPL-J)
---	5327	19-11	0737	Sun	i.p. VVV 3FS DE 2KO QSU SK SK T T	CW	(JPL-KOR)
---	5717	21-11	0822	Tue	K DE ? AZ3 (x2) QSA 3 QRU VA DE ? ? CA1 CA1 QSA ? K DE ? K CA1 QSA 4 QSA? QRU VA CA1 QSA 5 QRU VA	CW	(JPL-KOR)
DPRK	13222	2-11	1330	Thu	North Korean diplo i.p.	DPRK-ARQ 600 LSB	(AB)
DPRK	14885	2-11	1330	Thu	North Korean diplo i.p.	DPRK-ARQ 600 LSB	(AB)
DPRK	15015	2-11	1330	Thu	North Korean diplo i.p.	DPRK-ARQ 600 LSB	(AB)
DPRK	15355	2-11	1330	Thu	North Korean diplo i.p.	DPRK-ARQ 600 LSB	(AB)
DPRK	16222	2-11	1330	Thu	North Korean diplo i.p.	DPRK-ARQ 600 LSB	(AB)
DPRK	7999	9-11	0816	Thu	North Korean diplo i.p.	DPRK-ARQ 600 LSB	(AB)
DPRK	11199	10-11	0716	Fri	North Korean diplo i.p.	DPRK-ARQ 600 LSB	(AB)
DPRK	16085	10-11	1508	Fri	North Korean diplo i.p.	DPRK-ARQ 600 LSB	(AB)
DPRK	16318	12-11	0930	Sun	North Korean diplo i.p.	DPRK-ARQ 600 LSB	(AB)
DPRK	14530	14-11	0657	Tue	North Korean diplo i.p.	DPRK-ARQ 1200 LSB	(AB)
DPRK	13444	14-11	0658	Tue	North Korean diplo i.p.	DPRK-ARQ 1200 LSB	(AB)
DPRK	13444	15-11	0804	Wed	North Korean diplo i.p.	DPRK-ARQ 1200 LSB	(AB)
DPRK	12850	15-11	1235	Wed	North Korean diplo i.p.	DPRK-ARQ 600 LSB	(AB)
DPRK	16450	15-11	1235	Wed	North Korean diplo i.p.	DPRK-ARQ 600 LSB	(AB)
DPRK	15888	15-11	1237	Wed	North Korean diplo i.p.	DPRK-ARQ 600 LSB	(AB)
DPRK	16025	15-11	1507	Wed	North Korean diplo i.p.	DPRK-ARQ 600 LSB	(MCO)
DPRK	16085	15-11	1515	Wed	North Korean diplo i.p. QSX 16025 kHz	DPRK-ARQ 600 LSB	(MCO)
DPRK	14530	16-11	0655	Thu	North Korean diplo i.p.	DPRK-ARQ 600 LSB	(AB)
DPRK	15555	16-11	0657	Thu	North Korean diplo i.p.	DPRK-ARQ 600 LSB	(AB)
DPRK	12320	16-11	1206	Thu	North Korean diplo i.p.	DPRK-ARQ 600 LSB	(AB)
DPRK	12345	16-11	1206	Thu	North Korean diplo i.p.	DPRK-ARQ 600 LSB	(AB)
DPRK	14530	16-11	1229	Thu	North Korean diplo i.p.	DPRK-ARQ 600 LSB	(AB)
DPRK	10800	16-11	1258	Thu	North Korean diplo i.p.	DPRK-ARQ 600 LSB	(AB)
DPRK	10810	16-11	1258	Thu	North Korean diplo i.p.	DPRK-ARQ 600 LSB	(AB)
DPRK	12222	22-11	0703	Wed	North Korean diplo i.p.	DPRK-ARQ 600 LSB	(AB)
DPRK	13105	23-11	0943	Thu	North Korean diplo i.p.	DPRK-ARQ	(AB)

								600 LSB	
DPRK	14444	23-11	0958	Thu	North Korean diplo i.p.			DPRK-ARQ	(AB)
								600 LSB	
DPRK	10330	23-11	1216	Thu	North Korean diplo i.p.			DPRK-ARQ	(AB)
								600 LSB	
DPRK	14530	24-11	0656	Fri	North Korean diplo i.p.			DPRK-ARQ	(AB)
								600 LSB	
DPRK	12850	24-11	0829	Fri	North Korean diplo i.p.			DPRK-ARQ	(AB)
								600 LSB	
DPRK	13333	24-11	0834	Fri	North Korean diplo i.p.			DPRK-ARQ	(AB)
								600 LSB	
DPRK	12222	27-11	1258	Mon	North Korean diplo, Moscow 0xB5, 2144 x 5FG in 3 msgs, session lasted 1258-1305z			DPRK-ARQ	(Danix)
								1200 LSB	
DPRK	10850	29-11	1210	Wed	North Korean diplo i.p.			DPRK-ARQ	(AB)
								600 LSB	
DPRK	13105	29-11	1215	Wed	North Korean diplo i.p.			DPRK-ARQ	(AB)
								600 LSB	
DPRK	10333	29-11	1216	Wed	North Korean diplo i.p.			DPRK-ARQ	(AB)
								600 LSB	
E06	18285	2-11	0600	Thu	507 482 61 26336 92594 56671 ... 01040 48443 23898 482 61 00000			USB	(ES-I/HFD)
E06	20140	2-11	0700	Thu	507 482 61 26336 92594 56671 ... 01040 48443 23898 482 61 00000			USB	(ES-HOL/HFD)
E06	4836	2-11	2030	Thu	321 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000			USB	(AB/MPJ/HFD)
E06	4760	3-11	2130	Fri	472 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000			USB	(AB/HFD)
E06	18285	16-11	0600	Thu	507 193 64 75566 76333 93437 ... 83063 92842 99842 193 64 00000			USB	(AB-RUS)
E06	20140	16-11	0700	Thu	507 193 64 75566 76333 93437 ... 83063 92842 99842 193 64 00000			USB	(AB-GRC)
E06	4836	16-11	1927	Thu	Windows sounds			USB	(AB)
E06	4836	16-11	1930	Thu	321 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000			USB	(AB/MPJ)
E06	18285	17-11	0600	Fri	507 193 64 75566 76333 93437 ... 83063 92842 99842 193 64 00000			USB	(AB-GRC)
E06	20140	17-11	0700	Fri	507 193 64 75566 76333 93437 ... 83063 92842 99842 193 64 00000			USB	(AB-GRC)
E06	4760	17-11	2130	Fri	472 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000 Windows shut down sound			USB	(AB)
E06	16163	23-11	0310	Thu	i.p.			USB	(HFD)
E07	8153	1-11	1800	Wed	184 184 184 1 794 83 794 83 43680 68320 42619 ... 63851 41080 73526 000 000			AM	(AB/HFD)
E07	6853	1-11	1820	Wed	184 184 184 1 794 83 794 83 43680 68320 42619 ... 63851 41080 73526 000 000			AM	(AB/HFD)
E07	6853	1-11	1820	Wed	184:1			USB	(HFD)
E07	5453	1-11	1840	Wed	184 184 184 1 794 83 794 83 43680 68320 42619 ... 63851 41080 73526 000 000			AM	(AB/HFD)
E07	7616	1-11	2000	Wed	682 682 682 000			USB	(AB/MPJ/HFD)
E07	6816	1-11	2020	Wed	682 682 682 000			USB	(AB/MPJ/HFD)
E07	6777	2-11	2110	Thu	744 744 744 000			AM	(AB/HFD)
E07	5449	2-11	2130	Thu	744 744 744 000			AM	(AB/HFD)
E07	14884	3-11	1100	Fri	835 835 835 000			USB	(AB/MPJ/HFD)
E07	13384	3-11	1120	Fri	835 835 835 000			USB	(AB/MPJ/HFD)
E07	10112	4-11	0700	Sat	111 111 111 1 942 128 942 128 80908 90911 03724 ... 52243 68505 40182 000 000			USB	(AB/HFD)

E07	11112	4-11	0720	Sat	111 111 111 1 942 128 942 128 80908 90911 03724 ... 52243 68505 40182 000 000	USB	(AB/HFD)
E07	12114	4-11	0740	Sat	111 111 111 1 942 128 942 128 80908 90911 03724 ... 52243 68505 40182 000 000	USB	(AB/HFD)
E07	10112	5-11	0700	Sun	111 111 111 1 942 128 942 128 80908 90911 03724 ... 52243 68505 40182 000 000	USB	(AB/BvR)
E07	11112	5-11	0720	Sun	111 111 111 1 942 128 942 128 80908 90911 03724 ... 52243 68505 40182 000 000	USB	(AB/BvR)
E07	12114	5-11	0740	Sun	111 111 111 1 942 128 942 128 80908 90911 03724 ... 52243 68505 40182 000 000	USB	(AB/BvR)
E07	8153	5-11	1800	Sun	184 184 184 1 794 83 794 83 43680 68320 42619 ... 63851 41080 73526 000 000	AM	(AB)
E07	6853	5-11	1820	Sun	184 184 184 1 794 83 794 83 43680 68320 42619 ... 63851 41080 73526 000 000	AM	(AB)
E07	5453	5-11	1840	Sun	184 184 184 1 794 83 794 83 43680 68320 42619 ... 63851 41080 73526 000 000	AM	(AB)
E07	7616	6-11	1900	Mon	682 682 682 000	USB	(AB/MPJ)
E07	6816	6-11	1920	Mon	682 682 682 000	USB	(AB/MPJ)
E07	14884	7-11	1100	Tue	835 835 835 1 4871 71 4871 71 71938 31908 92275 ... 27044 61061 51191 000 000	USB	(AB/MPJ)
E07	13384	7-11	1120	Tue	835 835 835 1 4871 71 4871 71 71938 31908 92275 ... 27044 61061 51191 000 000	USB	(AB/MPJ)
E07	11584	7-11	1140	Tue	835 835 835 1 4871 71 4871 71 71938 31908 92275 ... 27044 61061 51191 000 000	USB	(AB/MPJ)
E07	8153	8-11	1800	Wed	184 184 184 1 794 83 794 83 43680 68320 42619 ... 63851 41080 73526 000 000	AM	(AB)
E07	6853	8-11	1820	Wed	184 184 184 1 794 83 794 83 43680 68320 42619 ... 63851 41080 73526 000 000	AM	(AB)
E07	5453	8-11	1840	Wed	184 184 184 1 794 83 794 83 43680 68320 42619 ... 63851 41080 73526 000 000	AM	(AB/MPJ)
E07	7616	8-11	2000	Wed	682 682 682 000	USB	(AB/MPJ)
E07	6816	8-11	2020	Wed	682 682 682 000	USB	(AB/MPJ)
E07	6777	9-11	2110	Thu	744 744 744 000	AM	(AB/MPJ)
E07	5449	9-11	2130	Thu	744 744 744 000	AM	(AB/MPJ)
E07	14884	10-11	1100	Fri	835 835 835 1 4871 71 4871 71 71938 31908 92275 ... 27044 61061 51191 000 000	USB	(AB/MPJ)
E07	13384	10-11	1120	Fri	835 835 835 1 4871 71 4871 71 71938 31908 92275 ... 27044 61061 51191 000 000	USB	(AB/MPJ)
E07	11584	10-11	1140	Fri	835 835 835 1 4871 71 4871 71 71938 31908 92275 ... 27044 61061 51191 000 000	USB	(AB/MPJ)
E07	10112	11-11	0700	Sat	111 111 111 1 942 128 942 128 80908 90911 03724 ... 52243 68505 40182 000 000	USB	(AB/ES)
E07	11112	11-11	0720	Sat	111 111 111 1 942 128 942 128 80908 90911 03724 ... 52243 68505 40182 000 000	USB	(AB/ES)
E07	12114	11-11	0740	Sat	111 111 111 1 942 128 942 128 80908 90911 03724 ... 52243 68505 40182 000 000	USB	(AB/ES)
E07	10112	12-11	0700	Sun	111 111 111 1 942 128 942 128 80908 90911 03724 ... 52243 68505 40182 000 000	USB	(AB/BvR)
E07	11112	12-11	0720	Sun	111 111 111 1 942 128 942 128 80908 90911 03724 ... 52243 68505 40182 000 000	USB	(AB/BvR)
E07	12114	12-11	0740	Sun	111 111 111 1 942 128 942 128 80908 90911 03724 ... 52243 68505 40182 000 000	USB	(AB/BvR)
E07	8153	12-11	1800	Sun	184 184 184 000	AM	(AB)
E07	6853	12-11	1820	Sun	184 184 184 000	AM	(AB)
E07	7616	13-11	1900	Mon	682 682 682 000	USB	(AB/RL/MPJ)
E07	6816	13-11	1920	Mon	682 682 682 000	USB	(AB/RL/MPJ)
E07	14884	14-11	1100	Tue	835 835 835 1 6685 85 6685 85 43619 37759 91212 ... 64888 28300 8369 000 000	USB	(AB/ES)
E07	13384	14-11	1120	Tue	835 835 835 1 6685 85 6685 85 43619 37759 91212 ... 64888 28300 8369 000 000	USB	(AB/ES)

E07	11584	14-11	1140	Tue	835 835 835 1 6685 85 6685 85 43619 37759 91212 ... 64888 28300 8369 000 000	USB	(AB/ES)
E07	8153	15-11	1800	Wed	184 184 184 1 437 91 437 91 76228 12544 32783 ... stops during the 67th group	AM	(AB/MPJ)
E07	6853	15-11	1820	Wed	184 184 184 1 437 91 437 91 76228 12544 32783 ... 83868 97630 52592 59342 000 000	AM	(AB/MPJ)
E07	5453	15-11	1840	Wed	184 184 184 1 437 91 437 91 76228 12544 32783 ... 83868 97630 52592 59342 000 000	AM	(AB/MPJ)
E07	7616	15-11	2000	Wed	682 682 682 000	USB	(AB/MPJ)
E07	6816	15-11	2020	Wed	682 682 682 000	USB	(AB/MPJ)
E07	6777	16-11	2110	Thu	744 744 744 1 609 60 609 60 15674 87968 95687 ... 72112 46932 63417 000 000	AM	(AB)
E07	5449	16-11	2130	Thu	744 744 744 1 609 60 609 60 15674 87968 95687 ... 72112 46932 63417 000 000	AM	(AB)
E07	4483	16-11	2150	Thu	744 744 744 1 609 60 609 60 15674 87968 95687 ... 72112 46932 63417 000 000	AM	(AB)
E07	14884	17-11	1100	Fri	835 835 835 1 6685 85 6685 85 43619 37759 91212 ... 64888 28300 8369 000 000	USB	(AB)
E07	13384	17-11	1120	Fri	835 835 835 1 6685 85 6685 85 43619 37759 91212 ... 64888 28300 8369 000 000	USB	(AB)
E07	11584	17-11	1140	Fri	835 835 835 1 6685 85 6685 85 43619 37759 91212 ... 64888 28300 8369 000 000	USB	(AB/MPJ)
E07	10112	18-11	0700	Sat	111 111 111 1 942 128 942 128 80908 90911 03724 ... 52243 68505 40182 000 000	USB	(AB)
E07	11112	18-11	0720	Sat	111 111 111 1 942 128 942 128 80908 90911 03724 ... 52243 68505 40182 000 000	USB	(AB)
E07	12114	18-11	0740	Sat	111 111 111 1 942 128 942 128 80908 90911 03724 ... 52243 68505 40182 000 000	USB	(AB)
E07	10112	19-11	0700	Sun	111 111 111 1 942 128 942 128 80908 90911 03724 ... 52243 68505 40182 000 000	USB	(AB)
E07	11112	19-11	0720	Sun	111 111 111 1 942 128 942 128 80908 90911 03724 ... 52243 68505 40182 000 000	USB	(AB/BvR)
E07	12114	19-11	0740	Sun	111 111 111 1 942 128 942 128 80908 90911 03724 ... 52243 68505 40182 000 000	USB	(AB/BvR)
E07	8153	19-11	1800	Sun	184 184 184 1 437 91 437 91 76228 12544 32783 ... 83868 97630 52592 59342 000 000	AM	(AB/MPJ)
E07	6853	19-11	1820	Sun	184 184 184 1 437 91 437 91 76228 12544 32783 ... 83868 97630 52592 59342 000 000	AM	(AB/MPJ)
E07	5453	19-11	1840	Sun	184 184 184 1 437 91 437 91 76228 12544 32783 ... 83868 97630 52592 59342 000 000	AM	(AB/MPJ)
E07	7616	20-11	1900	Mon	682 682 682 000	USB	(AB/MPJ/RL)
E07	6816	20-11	1920	Mon	682 682 682 000	USB	(AB/GHn/MPJ)
E07	14884	21-11	1100	Tue	835 835 835 000	USB	(AB/MPJ/ES)
E07	13384	21-11	1120	Tue	835 835 835 000	USB	(AB/MPJ/ES)
E07	8153	22-11	1800	Wed	184 184 184 000	AM	(AB/MPJ)
E07	6853	22-11	1820	Wed	184 184 184 000	AM	(AB/MPJ)
E07	7616	22-11	2000	Wed	682 682 682 000	USB	(AB/MPJ)
E07	6816	22-11	2020	Wed	682 682 682 000	USB	(AB/MPJ)
E07	6777	23-11	2110	Thu	744 744 744 000	AM	(AB)
E07	5449	23-11	2130	Thu	744 744 744 000	AM	(AB)
E07	14884	24-11	1100	Fri	835 835 835 000	USB	(AB)
E07	13384	24-11	1120	Fri	835 835 835 000	USB	(AB/MPJ)
E07	10112	25-11	0700	Sat	111 111 111 1 942 128 942 128 80908 90911 03724 ... 52243 68505 40182 000 000	USB	(AB/BvR)
E07	11112	25-11	0720	Sat	111 111 111 1 942 128 942 128 80908 90911 03724 ... 52243 68505 40182 000 000	USB	(AB/BvR)
E07	12114	25-11	0740	Sat	111 111 111 1 942 128 942 128 80908 90911 03724 ... 52243 68505 40182 000 000	USB	(AB/BvR)
E07	10112	26-11	0700	Sun	111 111 111 1 942 128 942 128 80908 90911 03724	USB	(AB)

... 52243 68505 40182 000 000									
E07	11112	26-11	0720	Sun	111 111 111 1 942 128 942 128 80908 90911 03724	USB	(AB)		
... 52243 68505 40182 000 000									
E07	12114	26-11	0740	Sun	111 111 111 1 942 128 942 128 80908 90911 03724	USB	(AB)		
... 52243 68505 40182 000 000									
E07	8153	26-11	1800	Sun	184 184 184 000	AM	(AB)		
E07	6853	26-11	1820	Sun	184 184 184 000	AM	(AB)		
E07	7616	27-11	1900	Mon	682 682 682 000	USB	(AB/MPJ)		
E07	6816	27-11	1920	Mon	682 682 682 000	USB	(AB/MPJ)		
E07	14884	28-11	1100	Tue	835 835 835 1 8175 77 8175 77 58096 22985 69038	USB	(AB/MPJ/RL)		
... 50558 97910 55591 000 000									
E07	13384	28-11	1120	Tue	835 835 835 1 8175 77 8175 77 58096 22985 69038	USB	(AB/MPJ/RL)		
... 50558 97910 55591 000 000									
E07	11584	28-11	1140	Tue	835 835 835 1 8175 77 8175 77 58096 22985 69038	USB	(AB/MPJ)		
... 50558 97910 55591 000 000									
E07	8153	29-11	1800	Wed	184 184 184 000	AM	(AB/MPJ)		
E07	6853	29-11	1820	Wed	184 184 184 000	AM	(AB/MPJ)		
E07	7616	29-11	2000	Wed	682 682 682 000	USB	(AB/MPJ)		
E07	6816	29-11	2020	Wed	682 682 682 000	USB	(AB/MPJ)		
E07	6777	30-11	2110	Thu	744 744 744 1 136 58 136 58 32710 51534 33173 ...	AM	(AB)		
15355 63878 94381 000 000 extremely poor audio									
E07	5449	30-11	2130	Thu	744 744 744 1 136 58 136 58 32710 51534 33173 ...	AM	(AB)		
15355 63878 94381 000 000 extremely poor audio									
E07	4483	30-11	2150	Thu	744 744 744 1 136 58 136 58 32710 51534 33173 ...	AM	(AB)		
15355 63878 94381 000 000 extremely poor audio									
E07a	5877	1-11	2100	Wed	825 825 825 1 19985 810 47 810 47 26559 38861	USB	(AB/HFD)		
55527 ... 74087 42569 29906 000 000									
E07a	5277	1-11	2120	Wed	825 825 825 1 19985 810 47 810 47 26559 38861	USB	(AB/HFD)		
55527 ... 74087 42569 29906 000 000									
E07a	4577	1-11	2140	Wed	825 825 825 1 19985 810 47 810 47 26559 38861	USB	(AB/HFD)		
55527 ... 74087 42569 29906 000 000									
E07a	5111	2-11	0530	Thu	189 1 19985 810 47 =26559	USB	(HFD)		
E07a	5111	2-11	0530	Thu	189 189 189 1 19985 810 47 810 47 26559 38861	USB	(AB/ES/HFD)		
55527 ... 74087 42569 29906 000 000									
E07a	5811	2-11	0550	Thu	189 189 189 1 19985 810 47 810 47 26559 38861	USB	(AB/ES)		
55527 ... 74087 42569 29906 000 000									
E07a	6911	2-11	0610	Thu	189 189 189 1 19985 810 47 810 47 26559 38861	USB	(AB/ES/HFD)		
55527 ... 74087 42569 29906 000 000									
E07a	8138	3-11	1610	Fri	158 158 158 000	USB	(MPJ/HFD)		
E07a	7538	3-11	1630	Fri	158 158 158 000	USB	(MPJ/HFD)		
E07a	11553	4-11	0900	Sat	515 515 515 000	USB	(AB/ES/HFD)		
E07a	12153	4-11	0920	Sat	515 515 515 000	USB	(AB/HFD)		
E07a	5877	8-11	2100	Wed	825 825 825 000	USB	(AB)		
E07a	5277	8-11	2120	Wed	825 825 825 000	USB	(AB)		
E07a	5111	9-11	0530	Thu	189 189 189 000	USB	(AB/ES)		
E07a	5811	9-11	0550	Thu	189 189 189 000	USB	(AB)		
E07a	8138	10-11	1610	Fri	158 158 158 000	USB	(AB/MPJ)		
E07a	7538	10-11	1630	Fri	158 158 158 000	USB	(AB/MPJ)		
E07a	11553	11-11	0900	Sat	515 515 515 000	USB	(AB/ES)		
E07a	12153	11-11	0920	Sat	515 515 515 000	USB	(AB)		
E07a	5877	15-11	2100	Wed	825 825 825 000	USB	(AB)		
E07a	5277	15-11	2120	Wed	825 825 825 000	USB	(AB)		
E07a	5111	16-11	0530	Thu	189 189 189 000	USB	(AB/ES)		
E07a	5811	16-11	0550	Thu	189 189 189 000	USB	(AB/ES)		
E07a	8138	17-11	1610	Fri	158 158 158 000	USB	(AB)		
E07a	7538	17-11	1630	Fri	158 158 158 000	USB	(AB/MPJ)		
E07a	11553	18-11	0900	Sat	515 515 515 000	USB	(AB)		
E07a	12153	18-11	0920	Sat	515 515 515 000	USB	(AB)		
E07a	5877	22-11	2100	Wed	825 825 825 000	USB	(AB/RL)		
E07a	5277	22-11	2120	Wed	825 825 825 000	USB	(AB/RL)		

E07a	5111	23-11	0530	Thu	189 189 189 000	USB	(AB/ES)
E07a	5811	23-11	0550	Thu	189 189 189 000	USB	(AB/ES)
E07a	8138	24-11	1610	Fri	158 158 158 000	USB	(AB/MPJ)
E07a	7538	24-11	1630	Fri	158 158 158 000	USB	(AB/MPJ)
E07a	11553	25-11	0900	Sat	515 515 515 000	USB	(AB)
E07a	12153	25-11	0920	Sat	515 515 515 000	USB	(AB)
E07a	5877	29-11	2100	Wed	825 825 825 000	USB	(AB)
E07a	5277	29-11	2120	Wed	825 825 825 000	USB	(AB)
E07a	5111	30-11	0530	Thu	189 189 189 000	USB	(AB)
E07a	5811	30-11	0550	Thu	189 189 189 000	USB	(AB)
E11	17378	1-11	0745	Wed	349/00	USB	(ES-I/HFD)
E11	12202	1-11	0820	Wed	136/00	USB	(HFD)
E11	9446	1-11	0900	Wed	538/00	USB	(AB/ES/HFD)
E11	8180	1-11	0930	Wed	278/00	USB	(ES-HOL/HFD)
E11	7317	1-11	1205	Wed	465/00	USB	(AB/HFD)
E11	10448	1-11	1625	Wed	970/00	USB	(AB/MPJ/HFD)
E11	8545	1-11	1730	Wed	406/00	USB	(AB/MPJ/HFD)
E11	5779	2-11	0315	Thu	250/00	USB	(AB)
E11	7840	2-11	0645	Thu	517/00	USB	(AB/ES/HFD)
E11	7984	2-11	0820	Thu	438/00	USB	(AB/HFD)
E11	11104	2-11	0845	Thu	155/00	USB	(AB/ES/HFD)
E11	8180	2-11	0930	Thu	276/00	USB	(AB)
E11	8680	2-11	1300	Thu	581/00	USB	(AB/MPJ/ES/HFD)
E11	5409	2-11	1530	Thu	266/00	USB	(AB/MPJ/ES/HFD)
E11	11493	2-11	1645	Thu	333/00	USB	(K3DCW/MPJ)
E11	5779	2-11	1730	Thu	418/00	USB	(AB/HFD)
E11	5779	2-11	1730	Thu	418/00	USB	(HFD)
E11	12067	2-11	1925	Thu	558/00	USB	(MPJ-AUT/HFD)
E11	9200	3-11	0600	Fri	182/00	USB	(ES-HOL)
E11	8800	3-11	1000	Fri	307/00	USB	(AB/MPJ/HFD)
E11	20167	3-11	1225	Fri	528/00	USB	(HFD)
E11	16335	3-11	1650	Fri	925/00	USB	(HFD)
E11	6304	3-11	2000	Fri	574/00	USB	(AB/MPJ)
E11	7377	4-11	0805	Sat	311/00	USB	(AB/HFD)
E11	20167	4-11	1225	Sat	528/00	USB	(AB)
E11	8680	4-11	1300	Sat	587/00	USB	(AB/MPJ)
E11	14666	4-11	1345	Sat	914/00	USB	(MPJ/HFD)
E11	8545	4-11	1730	Sat	406/00	USB	(AB/MPJ)
E11	11107	4-11	2005	Sat	366/00	USB	(AB/ES)
E11	4505	5-11	0710	Sun	496/00	USB	(AB/BvR)
E11	7377	5-11	0805	Sun	311/00	USB	(AB)
E11	4505	5-11	1605	Sun	232/00	USB	(AB/MPJ/HFD)
E11	10448	5-11	1625	Sun	972/00	USB	(AB/MPJ)
E11	16335	5-11	1650	Sun	927/00 Barely audible	USB	(AB)
E11	11107	5-11	2005	Sun	365/00	USB	(MPJ)
E11	11450	6-11	0640	Mon	945/00	USB	(AB)
E11	10213	6-11	0745	Mon	269/00	USB	(AB/HFD)
E11	7984	6-11	0820	Mon	430/00	USB	(AB)
E11	9446	6-11	0900	Mon	538/00	USB	(AB)
E11	20167	6-11	1225	Mon	521/00	USB	(AB-G/MPJ)
E11	7840	7-11	0645	Tue	511/00	USB	(AB)
E11	12202	7-11	0820	Tue	131/00	USB	(AB)
E11	11104	7-11	0845	Tue	152/00	USB	(AB)

E11	12153	7-11	1045	Tue	571/00		USB	(AB/MPJ/HFD)
E11	7317	7-11	1205	Tue	463/00		USB	(AB/MPJ)
E11	14666	7-11	1345	Tue	912/00		USB	(AB/MPJ)
E11	4505	7-11	1605	Tue	238/00		USB	(AB/GHn/MPJ)
E11	11493	7-11	1645	Tue	333/00		USB	(AB/MPJ/HFD)
E11	12067	7-11	1925	Tue	557/00		USB	(MPJ)
E11	5779	8-11	0315	Wed	255/00		USB	(AB)
E11	11450	8-11	0640	Wed	946/00		USB	(AB/ES/HFD)
E11	12202	8-11	0820	Wed	138/00		USB	(AB)
E11	9446	8-11	0900	Wed	537/00		USB	(AB)
E11	8180	8-11	0930	Wed	270/00		USB	(AB)
E11	7317	8-11	1205	Wed	469/00		USB	(AB/MPJ)
E11	10448	8-11	1625	Wed	970/00		USB	(AB/GHn/MPJ)
E11	9443	8-11	1705	Wed	392/00		USB	(MPJ)
E11	8545	8-11	1730	Wed	409/00		USB	(AB/MPJ)
E11	5779	9-11	0315	Thu	256/00		USB	(AB)
E11	7840	9-11	0645	Thu	511/00		USB	(AB)
E11	7984	9-11	0820	Thu	435/00		USB	(AB)
E11	11104	9-11	0845	Thu	154/00		USB	(AB)
E11	8180	9-11	0930	Thu	279/00		USB	(AB)
E11	5409	9-11	1530	Thu	267/00		USB	(AB/GHn/MPJ)
E11	11493	9-11	1645	Thu	333/00		USB	(MPJ)
E11	5779	9-11	1730	Thu	411/00		USB	(AB/MPJ)
E11	12067	9-11	1925	Thu	550/00		UAB	(AnEur)
E11	17378	10-11	0745	Fri	349/00		USB	(AB)
E11	20167	10-11	1225	Fri	520/00		USB	(MPJ)
E11	16335	10-11	1650	Fri	924/00		USB	(MPJ-AUT)
E11	10487	10-11	1910	Fri	Null message. Id unreadable.		USB	(AB/MPJ)
E11	6304	10-11	2000	Fri	575/00		USB	(AB/MPJ)
E11	14666	11-11	1345	Sat	917/00		USB	(MPJ)
E11	9443	11-11	1705	Sat	393/00		USB	(AB/MPJ)
E11	8545	11-11	1730	Sat	403/00		USB	(AB/MPJ)
E11	11107	11-11	2005	Sat	365/31		USB	(HFD)
E11	4505	12-11	1605	Sun	231/00		USB	(AB/GHn/MPJ)
E11	10448	12-11	1625	Sun	972/00		USB	(AB)
E11	10487	12-11	1910	Sun	631/00		USB	(AB/MPJ/HFD)
E11	9200	13-11	0600	Mon	180/00		USB	(AB/HFD)
E11	10213	13-11	0745	Mon	266/00		USB	(AB)
E11	7984	13-11	0820	Mon	432/00		USB	(AB)
E11	7840	14-11	0645	Tue	519/00		USB	(AB)
E11	9130	14-11	0710	Tue	631/00		USB	(AB)
E11	8800	14-11	1000	Tue	308/00		USB	(AB)
E11	12153	14-11	1045	Tue	579/00		USB	(AB)
E11	7317	14-11	1205	Tue	469/00		USB	(AB/MPJ/ES)
E11	14666	14-11	1345	Tue	919/00		USB	(AB/MPJ)
E11	12067	14-11	1925	Tue	???.00 barely audible		USB	(AB)
E11	12202	15-11	0820	Wed	132/00		USB	(AB)
E11	7317	15-11	1205	Wed	464/00		USB	(AB/MPJ)
E11	9443	15-11	1705	Wed	393/00		USB	(AB/MPJ)
E11	7840	16-11	0645	Thu	512/00		USB	(AB/ES)
E11	7984	16-11	0820	Thu	438/00		USB	(AB/ES)
E11	8680	16-11	1300	Thu	586/00		USB	(AB/MPJ)
E11	5409	16-11	1530	Thu	264/00		USB	(AB/MPJ)

E11	12067	16-11	1925	Thu	552/00		USB	(AB/MPJ)
E11	9200	17-11	0600	Fri	182/00		USB	(AB)
E11	9130	17-11	0710	Fri	636/00		USB	(AB)
E11	8800	17-11	1000	Fri	307/00		USB	(AB)
E11	16335	17-11	1650	Fri	922/00		USB	(AB-AUT)
E11	10487	17-11	1910	Fri	611/00		USB	(AB/MPJ)
E11	7377	18-11	0805	Sat	312/00		USB	(AB)
E11	8680	18-11	1300	Sat	587/00		USB	(AB/MPJ)
E11	14666	18-11	1345	Sat	914/00		USB	(MPJ)
E11	9443	18-11	1705	Sat	395/00		USB	(AB/MPJ)
E11	8545	18-11	1730	Sat	403/00		USB	(AB/MPJ)
E11	11107	18-11	2005	Sat	360/00		USB	(ES)
E11	7377	19-11	0805	Sun	315/00		USB	(AB/BvR)
E11	16335	19-11	1650	Sun	926/00		USB	(MPJ-AUT)
E11	11107	19-11	2005	Sun	363/00		USB	(MPJ)
E11	4909	20-11	0450	Mon	410/00		USB	(HFD)
E11	11450	20-11	0640	Mon	941/00		USB	(AB)
E11	9446	20-11	0900	Mon	535/00		USB	(AB)
E11	8800	21-11	1000	Tue	306/00		USB	(AB/ES)
E11	7317	21-11	1205	Tue	462/00		USB	(AB/MPJ)
E11	4505	21-11	1605	Tue	238/00		USB	(AB/MPJ)
E11	5779	22-11	0315	Wed	256/00		USB	(AB)
E11	11450	22-11	0640	Wed	944/00		USB	(AB)
E11	9446	22-11	0900	Wed	533/00		USB	(AB)
E11	8180	22-11	0930	Wed	275/00		USB	(AB)
E11	7317	22-11	1205	Wed	464/00		USB	(AB/MPJ)
E11	10448	22-11	1625	Wed	972/00		USB	(AB/MPJ)
E11	9443	22-11	1705	Wed	391/00		USB	(AB/MPJ)
E11	5779	23-11	0315	Thu	251/00		USB	(AB/HFD)
E11	7840	23-11	0645	Thu	519/00		USB	(AB)
E11	11104	23-11	0845	Thu	154/00		USB	(AB)
E11	8180	23-11	0930	Thu	271/00		USB	(AB)
E11	8680	23-11	1300	Thu	588/00		USB	(AB/MPJ)
E11	5779	23-11	1730	Thu	413/00		USB	(AB/MPJ)
E11	9200	24-11	0600	Fri	188/00		USB	(AB)
E11	9130	24-11	0710	Fri	635/00		USB	(AB)
E11	8800	24-11	1000	Fri	300/00		USB	(AB/MPJ)
E11	4505	25-11	0710	Sat	498/00		USB	(AB)
E11	7377	25-11	0805	Sat	316/00		USB	(AB/BvR)
E11	8680	25-11	1300	Sat	583/00		USB	(AB/MPJ)
E11	9443	25-11	1705	Sat	396/00		USB	(MPJ)
E11	4505	26-11	0710	Sun	492/00		USB	(AB)
E11	7377	26-11	0805	Sun	311/00		USB	(AB)
E11	4505	26-11	1605	Sun	237/00		USB	(AB/MPJ)
E11	10448	26-11	1625	Sun	975/00		USB	(MPJ)
E11	11107	26-11	2005	Sun	364/00		USB	(MPJ)
E11	9200	27-11	0600	Mon	183/00		USB	(AB)
E11	11450	27-11	0640	Mon	945/00		USB	(AB)
E11	10213	27-11	0745	Mon	261/00		USB	(AB)
E11	7984	27-11	0820	Mon	431/00		USB	(AB)
E11	9446	27-11	0900	Mon	533/00		USB	(AB)
E11	20167	27-11	1225	Mon	52?/00	Barely audible	USB	(MPJ)
E11	8800	28-11	1000	Tue	305/00		USB	(AnEur)
E11	12153	28-11	1045	Tue	571/00		USB	(AB/MPJ)
E11	14666	28-11	1345	Tue	917/00		USB	(MPJ-HOL)
E11	4505	28-11	1605	Tue	235/00		USB	(AB/MPJ)
E11	11493	28-11	1645	Tue	???	00 null message, barely audible	USB	(MPJ)
E11	12067	28-11	1925	Tue	558/00		USB	(AnEur)
E11	11450	29-11	0640	Wed	944/00		USB	(AB)
E11	12202	29-11	0820	Wed	130/00		USB	(AB)

E11	9446	29-11	0900	Wed	534/00		USB	(AB)
E11	8180	29-11	0930	Wed	273/00		USB	(AB)
E11	10448	29-11	1625	Wed	970/00		USB	(AB/MPJ)
E11	9443	29-11	1705	Wed	392/00		USB	(AB/MPJ)
E11	8545	29-11	1730	Wed	400/00		USB	(AB/MPJ)
E11	7984	30-11	0820	Thu	436/00		USB	(AB)
E11	11104	30-11	0845	Thu	152/00		USB	(AB)
E11	8180	30-11	0930	Thu	270/0030		USB	(AB)
E11	8680	30-11	1300	Thu	586/00		USB	(AB/MPJ)
E11	5409	30-11	1530	Thu	264/00		USB	(AB/MPJ)
E11	11493	30-11	1645	Thu	331/00		USB	(MPJ)
E11	5779	30-11	1730	Thu	413/00		USB	(AB)
E11a	9443	1-11	1705	Wed	392/34 Attention 89785 21365 25785 ... 87640 57677 09901 Attention, rpt msg, out		USB	(AB/MPJ/HFD)
E11a	9443	4-11	1705	Sat	392/34 Attention 89785 21365 25785 ... 87640 57677 09901 Attention, rpt msg, out		USB	(AB/MPJ/ES)
E11a	9200	6-11	0600	Mon	185/21 Attention 05373 15186 86481 ... 63363 90125 55717 Attention, rpt msg, out		USB	(AB)
E11a	9130	7-11	0710	Tue	639/34 Attention 50968 40273 68209 ... 21776 94913 14762 Attention, rrpt msg, out		USB	(AB/ES)
E11a	8800	7-11	1000	Tue	300/25 Attention 33797 12970 73929 ... 42415 59539 90689 Attention, rpt msg, out		USB	(AB/MPJ)
E11a	8680	9-11	1300	Thu	589/38 Attention 53397 60191 52074 ... 85211 74935 92993 Attention, rpt msg, out		USB	(AB/MPJ)
E11a	9200	10-11	0600	Fri	185/21 Attention 05373 15186 86481 ... 63363 90125 55717 Attention, rpt msg, out		USB	(AB/ES)
E11a	9130	10-11	0710	Fri	639/34 Attention 50968 40273 68209 ... 21776 94913 14762 Attention, rrpt msg, out		USB	(AB)
E11a	8800	10-11	1000	Fri	300/25 Attention 33797 12970 73929 ... 42415 59539 90689 Attention, rpt msg, out		USB	(AB/MPJ)
E11a	4505	11-11	0710	Sat	495/38 Attention 52268 61567 07045 ... 20183 83535 44363 Attention, rpt msg, out		USB	(AB)
E11a	7377	11-11	0805	Sat	316/38 Attention 29573 37931 39237 ... 96365 23472 37604 Attention, rpt msg, out		USB	(AB)
E11a	8680	11-11	1300	Sat	589/38 Attention 53397 60191 52074 ... 85211 74935 92993 Attention, rpt msg, out		USB	(AB/MPJ/ES)
E11a	4505	12-11	0710	Sun	495/38 Attention 52268 61567 07045 ... 20183 83535 44363 Attention, rpt msg, out		USB	(AB/BvR/ES)
E11a	7377	12-11	0805	Sun	316/38 Attention 29573 37931 39237 ... 96365 23472 37604 Attention, rpt msg, out		USB	(AB)
E11a	11107	12-11	2005	Sun	365/31 Attention ...		USB	(AB)
E11a	4909	13-11	0450	Mon	416/31 Attention 89318 19173 97045 ... 26336 17735 18052 Attention, rpt msg, out		USB	(AB)
E11a	11450	13-11	0640	Mon	944/36 Attention 02552 02779 52230 ... 93447 77296 60007 Attention, rpt msg, out		USB	(AB)
E11a	9446	13-11	0900	Mon	534/40 Attention 82848 35084 57886 ... 57120 50957 41321 Attention, rpt msg, out		USB	(AB)
E11a	11104	14-11	0845	Tue	155/21 Attention 53488 87236 29595 ... 72109 62141 52883 Attention, rpt msg, out		USB	(AB)
E11a	5231	14-11	0948	Tue	i.p. 121/20 Attention 52458 97456 20125 ... 12369 85401 25485 Attention, rpt msg, out		USB	(ES)
E11a	4505	14-11	1605	Tue	236/31 Attention 74117 03251 72053 ... 96542 94175 01342 Attention, rpt msg, out		USB	(AB/MPJ)
E11a	11450	15-11	0640	Wed	944/36 Attention 02552 02779 52230 ... 93447 77296 60007 Attention, rpt msg, out		USB	(AB/ES)
E11a	9446	15-11	0900	Wed	534/40 Attention 82848 35084 57886 ... 57120 50957 41321 Attention, rpt msg, out		USB	(AB)
E11a	8180	15-11	0930	Wed	276/36 Attention 48178 64335 90625 ... 50160 78392 22397 Attention, rpt msg, out		USB	(AB/ES)
E11a	10448	15-11	1625	Wed	975/34 Attention 94072 25297 32297 ... 52144		USB	(AB/GHn/MPJ)

					45652 46742 Attention, rpt msg, out)
E11a	11104	16-11	0845	Thu	155/21 Attention 53488 87236 29595 ... 72109 62141 52883 Attention, rpt msg, out	USB		(AB)
E11a	8180	16-11	0930	Thu	267/36 Attention 48178 64335 90625 ... 50160 78392 22397 Attention, rpt msg, out	USB		(AB)
E11a	5779	16-11	1730	Thu	416/31 Attention 89318 19173 97045 ... 26336 17735 18052 Attention, rpt msg, out	USB		(MPJ)
E11a	4505	19-11	1605	Sun	236/31 Attention 74117 03251 72053 ... 96542 94175 01342 Attention, rpt msg, out	USB		(AB/MPJ)
E11a	10448	19-11	1625	Sun	975/34 Attention 94072 25297 32297 ... 52144 45652 46742 Attention, rpt msg, out	USB		(AB/MPJ)
E11a	10213	20-11	0745	Mon	267/31 Attention 94581 55155 82984 ... 41699 92462 42833 Attention, rpt msg, out	USB		(AB)
E11a	7984	20-11	0820	Mon	435/37 Attention 10095 89543 52585 ... 46628 03633 91890 Attention, rpt msg, out	USB		(AB)
E11a	20167	20-11	1225	Mon	527/34 Attention 73576 01267 58864 ... 77209 05228 40639 +	USB		(MPJ)
E11a	12153	21-11	1045	Tue	571/33 Attention 98180 57700 51830 ... 48124 22678 69680	USB		(AB)
E11a	14666	21-11	1345	Tue	918/40 Attention 56104 39613 56915 ... 12013 43986 56448 Attention, rpt msg, out	USB		(AB-AUT/MPJ)
E11a	11493	21-11	1645	Tue	334/30 Attention ...	USB		(AB/MPJ)
E11a	12067	21-11	1925	Tue	550/34 Attention ...	USB		(AB-G)
E11a	17378	22-11	0745	Wed	346/32 Attention 00360 90707 19757 ... 60306 71528 55646 Attention, rpt msg, out	USB		(ES)
E11a	12202	22-11	0820	Wed	134/31 Attention 13170 50561 88859 ... 73541 16463 90258 Attention, rpt msg, out	USB		(AB)
E11a	8545	22-11	1730	Wed	406/31 Attention 78828 46886 15968 ... 40726 10446 12524 Attention, rpt msg, out	USB		(AB/MPJ)
E11a	7984	23-11	0820	Thu	435/37 Attention 10095 89543 52585 ... 46628 03633 91890 Attention, rpt msg, out	USB		(AB)
E11a	5409	23-11	1530	Thu	267/31 Attention 94581 55155 82984 ... 41699 92462 42833 Attention, rpt msg, out	USB		(AB/MPJ/skx)
E11a	17378	24-11	0745	Fri	346/32 Attention 00360 90707 19757 ... 60306 71528 55646 Attention, rpt msg, out	USB		(AB)
E11a	16335	24-11	1650	Fri	927/40 Attention 34283 48135 73613 ... 24360 61662 27034	USB		(AB/MPJ)
E11a	10487	24-11	1910	Fri	613/33 Attention 45904 42082 61161 ... 02937 78158 24001	USB		(MPJ-I)
E11a	14666	25-11	1345	Sat	918/40 Attention 56104 39613 56915 ... 12013 43986 56448 Attention, rpt msg, out	USB		(AB-G/MPJ/BvR)
E11a	8545	25-11	1730	Sat	406/31 Attention 78828 46886 15968 ... 40726 10446 12524 Attention, rpt msg, out	USB		(AB/MPJ)
E11a	7840	28-11	0645	Tue	512/31 Attention 83806 14113 04036 ... 32902 22743 64371 Attention, rpt msg, out	USB		(AB)
E11a	7317	28-11	1205	Tue	462/33 Attention 94035 56822 78103 ... 86539 26432 64339 Attention, rpt msg, out	USB		(AB/MPJ)
E11a	7317	29-11	1205	Wed	462/33 Attention 94035 56822 78103 ... 86539 26432 64339 Attention, rpt msg, out	USB		(AB/MPJ)
E11a	5779	30-11	0315	Thu	259/34 Attention 57080 12996 77845 ... 09733 05825 43568 Attention, rpt msg, out	USB		(AB)
E11a	7840	30-11	0645	Thu	512/31 Attention 83806 14113 04036 ... 32902 22743 64371 Attention, rpt msg, out	USB		(AB)
E17z	11170	2-11	0800	Thu	674 819 5 36184 36194 37650 43773 46793 819 5 00000. Slightly off freq	USB		(AB/HFD)
E17z	9820	2-11	0810	Thu	674 819 5 36184 36194 37650 43773 46793 819 5 00000. Slightly off freq	USB		(AB/HFD)
E17z	10240	7-11	1528	Tue	Test 274 809 13 98539 repeated over and over	USB		(HFD)
E17z	10240	7-11	1534	Tue	Test i.p. 809 809 13 13 274 274 274 809 809 13 13 98539 839 839 13 13 274 ...	USB		(HFD)

E17z	11170	9-11	0800	Thu	674 819 5 36184 36194 37650 43773 46793 819 5 00000. Slightly off freq	USB	(AB)
E17z	9820	9-11	0810	Thu	674 819 5 36184 36194 37650 43773 46793 819 5 00000. Slightly off freq	USB	(AB)
E17z	11170	16-11	0800	Thu	674 913 5 89056 74831 90553 16811 29043 913 5 00000	USB	(AB/ES)
E17z	9820	16-11	0810	Thu	674 913 5 89056 74831 90553 16811 29043 913 5 00000	USB	(AB/ES)
E17z	11170	23-11	0800	Thu	674 913 5 89056 74831 90553 16811 29043 913 5 00000	USB	(AB)
E17z	9820	23-11	0810	Thu	674 913 5 89056 74831 90553 16811 29043 913 5 00000	USB	(AB)
E17z	11170	30-11	0800	Thu	674 674 674 00000	USB	(AB)
E17z	9820	30-11	0810	Thu	674 674 674 00000	USB	(AB)
E25	6140	6-11	0815	Mon	014 014 ... Message 8255 1290 5507 2161 7915 2666 2375 1290 5080 Rebeat 8255 1290 5507 2161 7915 2666 2375 1290 5080 EOM EOT	AM	(dmhz-ISR)
E25	6140	8-11	1152	Wed	Carrier up with windows sounds, then Enta Omri. Music played for around 15 minutes until 1207 UTC, ends abruptly.	AM	(qsr711/dmhz)
E25	6140	8-11	1217	Wed	Carrier up with Arabic music, then Quran reciting. Ends abruptly around 1217 UTC.	AM	(qsr711)
E25	6140	8-11	1227	Wed	Carrier up with Enta Omri. Around 7 minutes later, music ends and station starts calling 012 012 012 message, message, message then transmitter off.	AM	(qsr711)
E25	6140	15-11	0817	Wed	169 Message 6040 6120 4564 4072 8805 0956 8274 Rebeat 6040 6120 45 (tx off)	USB	(dmhz-ISR)
E25	6140	15-11	0847	Wed	169 Message 6040 6120 4564 4072 8805 0956 8274 Rebeat 6040 6120 4564 4072 8805 0956 8274 EOM EOT	USB	(dmhz-ISR)
E25	6140	16-11	0815	Thu	Female operator. Live. 169 169 169 ... Message 6040 6120 4564 4072 8805 0946 8274 Rebeat 604- ---- ---4 4072 8805 0956 8274 EOM EOT	USB	(dmhz)
E25	6140	16-11	0846	Thu	Male operator. Live. 169 169 169 ... Message 6040 6120 4564 4072 8805 0956 8274 Rebeat 6040 6120 4564 4072 8805 0956 8274 EOM EOT	USB	(dmhz)
EGY	9067.7	1-11	2130	Wed	RCVB: Egyptian embassy, Washington	SITOR-A 100/170	(W.obi)
EGY	14356.7	2-11	1330	Thu	Egyptian diplo i.p. KDS 00931 00931 KY KY JG KDC-FUSG KY DDHFMV	SITOR-A 100/170	(AB)
EGY	19101.7	2-11	1343	Thu	MFA Cairo long msg to IPTX: Egyptian embassy Havana	SITOR-A 100/170	(AB)
EGY	9067.7	2-11	1640	Thu	OOVC: Egyptian embassy, New Delhi	SITOR-A 100/170	(w.obi)
EGY	7800.7	2-11	1758	Thu	OOVC: Egyptian embassy New Delhi wkg MFA Cairo	SITOR-A 100/170	(AB)
EGY	9067.7	2-11	2010	Thu	TVVK: Egyptian embassy, Rabat msg to RCVB: Egyptian embassy, Washington	SITOR-A 100/170	(w.obi)
EGY	16221.7	10-11	1510	Fri	71: MFA Cairo/Egyptian Intel msg to Egyptian embassy Washington	SITOR-A 100/170	(AB)
EGY	9046.7	13-11	1506	Mon	71: MFA Cairo/Egyptian intelligence sending urgent messages to OOVC: Egyptian embassy New Delhi	Sitor-A 100/170	(AB)
EGY	9046.7	13-11	1650	Mon	71: MFA Cairo/Egyptian intelligence clg RCVB: Egyptian embassy Washington	Sitor-A 100/170	(AB)
EGY	9046.7	13-11	2130	Mon	Egyptian diplo i.p. Encrypted message	Sitor-A 100/170	(AB)
EGY	17422	16-11	0850	Thu	MFA Cairo clashing with MFA Pyongyang	SITOR-A 100/170	(Danix)
EGY	10225	19-11	2206	Sun	i.p. MFA Cairo msg to IPTX: Egyptian embassy, Havana	SITOR-A 100/170	(SP1)

F03a	10200	9-11	0840	Thu	Polish Intel.	FSK 100/200	(AB)
F03a	9960	9-11	1000	Thu	Polish Intel.	FSK 100/200	(AB)
F03a	9960	9-11	1010	Thu	Polish Intel.	FSK 100/200	(AB)
F03a	6480	9-11	1800	Thu	Polish Intel.	FSK 100/200	(AB)
F03a	6480	9-11	1805	Thu	Polish Intel.	FSK 100/200	(AB)
F03a	10728	10-11	0945	Fri	Polish Intel.	FSK 100/200	(AB)
F03a	10728	10-11	0950	Fri	Polish Intel.	FSK 100/200	(AB)
F03a	10200	14-11	0835	Tue	Polish Intel.	FSK 100/200	(AB)
F03a	10200	14-11	0840	Tue	Polish Intel.	FSK 100/200	(AB)
F03a	10728	14-11	0945	Tue	Polish Intel.	FSK 100/200	(AB)
F03a	10728	14-11	0950	Tue	Polish Intel.	FSK 100/200	(AB)
F03a	10200	16-11	0835	Thu	Polish Intel.	FSK 100/200	(AB)
F03a	10200	16-11	0840	Thu	Polish Intel.	FSK 100/200	(AB)
F03a	6480	16-11	1800	Thu	Polish Intel.	FSK 100/200	(AB)
F03a	6480	16-11	1805	Thu	Polish Intel.	FSK 100/200	(AB)
F03a	10728	21-11	0945	Tue	Polish Intel.	FSK 100/200	(AB)
F03a	10728	21-11	0950	Tue	Polish Intel.	FSK 100/200	(AB)
F03a	6480	21-11	1800	Tue	Polish Intel.	FSK 100/200	(AB)
F03a	6480	21-11	1805	Tue	Polish Intel.	FSK 100/200	(AB)
F03a	10200	23-11	0835	Thu	Polish Intel.	FSK 100/200	(AB)
F03a	10200	23-11	0840	Thu	Polish Intel.	FSK 100/200	(AB)
F03a	6480	23-11	1800	Thu	Polish Intel.	FSK 100/200	(AB)
F03a	6480	23-11	1805	Thu	Polish Intel.	FSK 100/200	(AB)
F03a	10728	24-11	0945	Fri	Polish Intel.	FSK 100/200	(AB)
F03a	10728	24-11	0950	Fri	Polish Intel.	FSK 100/200	(AB)
F03a	6480	28-11	1800	Tue	Polish Intel.	FSK 100/200	(AB)
F03a	6480	28-11	1805	Tue	Polish Intel.	FSK 100/200	(AB)
F03a	10200	30-11	0835	Thu	Polish Intel.	FSK 100/200	(AB)
F03a	10200	30-11	0840	Thu	Polish Intel.	FSK 100/200	(AB)
F03a	6480	30-11	1800	Thu	Polish Intel.	FSK 100/200	(AB)
F03a	6480	30-11	1805	Thu	Polish Intel.	FSK 100/200	(AB)
F03b	9960	6-11	1000	Mon	Polish Intel.	FSK 200/400	(AB)
F03b	9960	6-11	1005	Mon	Polish Intel.	FSK 200/400	(AB/MPJ)
F03b	9960	9-11	1000	Thu	Polish Intel.	FSK 200/400	(AB)
F03b	9960	9-11	1010	Thu	Polish Intel.	FSK 200/400	(AB)
F03b	9960	13-11	1000	Mon	Polish Intel.	FSK 200/400	(AB)
F03b	9960	13-11	1005	Mon	Polish Intel.	FSK 200/400	(AB)
F03b	9960	20-11	1000	Mon	Polish Intel.	FSK 200/400	(AB)
F03b	9960	20-11	1005	Mon	Polish Intel.	FSK 200/400	(AB)
F03b	9960	23-11	1000	Thu	Polish Intel.	FSK 200/400	(AB)
F03b	9960	23-11	1010	Thu	Polish Intel.	FSK 200/400	(AB)
F03b	12424	24-11	0843	Fri	Polish Intel.	FSK 200/400	(AB)
F03b	12424	24-11	0848	Fri	Polish Intel.	FSK 200/400	(AB)
F03b	9960	27-11	1000	Mon	Polish Intel.	FSK 200/400	(AB)
F03b	9960	27-11	1005	Mon	Polish Intel.	FSK 200/400	(AB)
F03b	9960	30-11	1000	Thu	Polish Intel.	FSK 200/400	(AB)
F03b	9960	30-11	1010	Thu	Polish Intel.	FSK 200/400	(AB)
F03c	8800	6-11	0940	Mon	Polish Intel.	FSK 400/960	(AB)
F03c	8800	6-11	0945	Mon	Polish Intel.	FSK 400/960	(AB)
F03c	8800	10-11	0940	Fri	Polish Intel.	FSK 400/960	(AB)
F03c	8800	10-11	0945	Fri	Polish Intel.	FSK 400/960	(AB)
F03c	8800	13-11	0940	Mon	Polish Intel.	FSK 400/960	(AB)
F03c	8800	13-11	0945	Mon	Polish Intel.	FSK 400/960	(AB)
F03c	8800	17-11	0940	Fri	Polish Intel.	FSK 400/960	(AB)
F03c	8800	17-11	0945	Fri	Polish Intel.	FSK 400/960	(AB)
F03c	8800	20-11	0940	Mon	Polish Intel.	FSK 400/960	(AB)
F03c	8800	20-11	0945	Mon	Polish Intel.	FSK 400/960	(AB)
F03c	8800	24-11	0940	Fri	Polish Intel.	FSK 400/960	(AB)
F03c	8800	24-11	0945	Fri	Polish Intel.	FSK 400/960	(AB)
F03c	8800	27-11	0940	Mon	Polish Intel.	FSK 400/960	(AB)

F03c	8800	27-11	0945	Mon	Polish Intel.	FSK 400/960	(AB)
F06	20082	1-11	0600	Wed	Russian diplo/intel. Header: 11166 40122 48372 28045 03319	FSK 200/1000	(AB-KOR)
F06	18207	1-11	0610	Wed	Russian diplo/intel. Header: 11166 40122 48372 28045 03319	FSK 200/1000	(AB-KOR)
F06	16141	1-11	0620	Wed	Russian diplo/intel. Header: 11166 40122 48372 28045 03319	FSK 200/1000	(AB-KOR)
F06	19104	1-11	0800	Wed	Russian diplo/intel. 11166 70048 26587 01031 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	17428	1-11	0810	Wed	Russian diplo/intel. 11166 70048 26587 01031 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	15603	1-11	0820	Wed	Russian diplo/intel. 11166 70048 26587 01031 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	20082	2-11	0600	Thu	Russian diplo/intel. Header: 11166 40122 48372 28045 03319	FSK 200/1000	(AB-KOR)
F06	18207	2-11	0610	Thu	Russian diplo/intel. Header: 11166 40122 48372 28045 03319	FSK 200/1000	(AB-KOR)
F06	16141	2-11	0620	Thu	Russian diplo/intel. Header: 11166 40122 48372 28045 03319	FSK 200/1000	(AB-KOR)
F06	16236	4-11	1050	Sat	Russian diplo/intel. Test: 4646464646464646 4646464646464646	FSK 200/1000	(AB)
F06	16236	4-11	1100	Sat	Russian diplo/intel. Header: 11166 50046 34971 03016 01449	FSK 200/1000	(AB/MPJ/Danix)
F06	14417	4-11	1110	Sat	Russian diplo/intel. Header: 11166 50046 34971 03016 01449	FSK 200/1000	(AB/MPJ/Danix)
F06	12128	4-11	1120	Sat	Russian diplo/intel. Header: 11166 50046 34971 03016 01449	FSK 200/1000	(AB/MPJ/Danix)
F06	22871	4-11	1500	Sat	Russian diplo/intel. 11166 40133 56248 04001 00049 00000 00000 00000 00000	FSK 200/1000	(AB-IRL/Danix)
F06	20629	4-11	1510	Sat	Russian diplo/intel. 11166 40133 56248 04001 00049 00000 00000 00000 00000	FSK 200/1000	(AB-IRL/Danix)
F06	18553	4-11	1520	Sat	Russian diplo/intel. 11166 40133 56248 04001 00049 00000 00000 00000 00000	FSK 200/1000	(AB-IRL/Danix)
F06	16236	5-11	1100	Sun	Russian diplo/intel. Header: 11166 50046 34971 03016 01449	FSK 200/1000	(AB/Danix/MPJ)
F06	14417	5-11	1110	Sun	Russian diplo/intel. Header: 11166 50046 34971 03016 01449	FSK 200/1000	(AB/Danix/MPJ)
F06	12128	5-11	1120	Sun	Russian diplo/intel. Header: 11166 50046 34971 03016 01449	FSK 200/1000	(AB/Danix/MPJ)
F06	10644	5-11	1530	Sun	Russian diplo/intel. Header: 11166 10053 58429 03062 01589	FSK 200/1000	(Danix)
F06	8159	5-11	1540	Sun	Russian diplo/intel. Header: 11166 10053 58429 03062 01589	FSK 200/1000	(AB/Danix)
F06	7438	5-11	1550	Sun	Russian diplo/intel. Header: 11166 10053 58429 03062 01589	FSK 200/1000	(AB/Danix)
F06	7658	6-11	0500	Mon	Russian diplo/intel. 11166 70059 14209 06019 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	6778	6-11	0520	Mon	Russian diplo/intel. 11166 70059 14209 06019 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	5361	6-11	0530	Mon	Russian diplo/intel. 11166 70059 14209 06019 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	10644	6-11	1520	Mon	Russian diplo/intel. Test: 464646464646464646464646464646	FSK 200/1000	(AB)
F06	10644	6-11	1530	Mon	Russian diplo/intel. Header: 11166 10053 58429 03062 01589	FSK 200/1000	(AB/Danix/MPJ)
F06	8159	6-11	1540	Mon	Russian diplo/intel. Header: 11166 10053 58429 03062 01589	FSK 200/1000	(AB/Danix/MPJ)
F06	7438	6-11	1550	Mon	Russian diplo/intel. Header: 11166 10053 58429 03062 01589	FSK 200/1000	(AB/Danix/MPJ)
F06	6773	7-11	1520	Tue	Russian diplo/intel. 11166 00052 75391 07031	FSK	(Danix)

					00049 00000 00000 00000 00000	200/1000	
F06	10536	7-11	1650	Tue	Russian diplo/intel. Header: 11166 10053 21069 07066 01709	FSK 200/1000	(Danix)
F06	8174	7-11	1700	Tue	Russian diplo/intel. Header: 11166 10053 21069 07066 01709	FSK 200/1000	(Danix)
F06	7318	7-11	1710	Tue	Russian diplo/intel. Header: 11166 10053 21069 07066 01709	FSK 200/1000	(Danix)
F06	20082	8-11	0600	Wed	Russian diplo/intel. Headers: 11166 40122 21547 04046 03029 and 11166 40122 10987 04047 02369	FSK 200/1000	(AB-KOR)
F06	18207	8-11	0610	Wed	Russian diplo/intel. Headers: 11166 40122 21547 04046 03029 and 11166 40122 10987 04047 02369	FSK 200/1000	(AB-KOR)
F06	16141	8-11	0620	Wed	Russian diplo/intel. Headers: 11166 40122 21547 04046 03029 and 11166 40122 10987 04047 02369	FSK 200/1000	(AB-KOR)
F06	19104	8-11	0800	Wed	Russian diplo/intel. 11166 70048 12345 08032 00059 00000 00000 00000 00000	FSK 200/1000	(AB-GRC)
F06	17428	8-11	0810	Wed	Russian diplo/intel. 11166 70048 12345 08032 00059 00000 00000 00000 00000	FSK 200/1000	(AB-GRC)
F06	15603	8-11	0820	Wed	Russian diplo/intel. 11166 70048 12345 08032 00059 00000 00000 00000 00000	FSK 200/1000	(AB-GRC)
F06	20476	8-11	0900	Wed	Russian diplo/intel. Header: 11166 00052 14683 24021 01749	FSK 200/1000	(AB/Danix)
F06	18915	8-11	0910	Wed	Russian diplo/intel. Header: 11166 00052 14683 24021 01749	FSK 200/1000	(AB/Danix)
F06	16238	8-11	0920	Wed	Russian diplo/intel. Header: 11166 00052 14683 24021 01749	FSK 200/1000	(AB/Danix)
F06	20349	8-11	1015	Wed	Russian diplo/intel. 11166 10031 16537 08001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	18573	8-11	1025	Wed	Russian diplo/intel. 11166 10031 16537 08001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/RL)
F06	16245	8-11	1035	Wed	Russian diplo/intel. 11166 10031 16537 08001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/RL)
F06	10536	8-11	1640	Wed	Russian diplo/intel. Test: 2088672560000000000000000000000000000000	FSK 200/1000	(AB)
F06	10536	8-11	1650	Wed	Russian diplo/intel. Header: 11166 10053 21069 07066 01709	FSK 200/1000	(AB)
F06	8174	8-11	1700	Wed	Russian diplo/intel. Header: 11166 10053 21069 07066 01709	FSK 200/1000	(AB)
F06	7318	8-11	1710	Wed	Russian diplo/intel. Header: 11166 10053 21069 07066 01709	FSK 200/1000	(AB)
F06	20082	9-11	0600	Thu	Russian diplo/intel. Headers: 11166 40122 21547 04046 03029 and 11166 40122 10987 04047 02369	FSK 200/1000	(AB-KOR)
F06	18207	9-11	0610	Thu	Russian diplo/intel. Headers: 11166 40122 21547 04046 03029 and 11166 40122 10987 04047 02369	FSK 200/1000	(AB-KOR)
F06	16141	9-11	0620	Thu	Russian diplo/intel. Headers: 11166 40122 21547 04046 03029 and 11166 40122 10987 04047 02369	FSK 200/1000	(AB-KOR)
F06	20476	9-11	0900	Thu	Russian diplo/intel. Header: 11166 00052 14683 24021 01749	FSK 200/1000	(AB)
F06	18915	9-11	0910	Thu	Russian diplo/intel. Header: 11166 00052 14683 24021 01749	FSK 200/1000	(AB)
F06	16238	9-11	0920	Thu	Russian diplo/intel. Header: 11166 00052 14683 24021 01749	FSK 200/1000	(AB)
F06	8187	9-11	1350	Thu	Russian diplo/intel. 11166 80214 25631 09076 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	15623	11-11	0900	Sat	Russian diplo/intel. Header: 11166 70147 23590 10069 02169	FSK 200/1000	(AB/Danix)
F06	13469	11-11	0910	Sat	Russian diplo/intel. Header: 11166 70147 23590 10069 02169	FSK 200/1000	(AB/Danix)
F06	11569	11-11	0920	Sat	Russian diplo/intel. Header: 11166 70147 23590 10069 02169	FSK 200/1000	(AB/Danix)
F06	20868	11-11	1000	Sat	Russian diplo/intel. Header: 11166 70004 48263	FSK	(AB/Danix)

					10001 00689	200/1000	
F06	18259	11-11	1010	Sat	Russian diplo/intel. Header: 11166 70004 48263 10001 00689	FSK 200/1000	(AB/Danix/M PJ)
F06	16113	11-11	1020	Sat	Russian diplo/intel. Header: 11166 70004 48263 10001 00689	FSK 200/1000	(AB/Danix/M PJ)
F06	16236	11-11	1100	Sat	Russian diplo/intel. Header: 11166 50046 54391 10017 00889	FSK 200/1000	(AB/Danix/M PJ)
F06	14417	11-11	1110	Sat	Russian diplo/intel. Header: 11166 50046 54391 10017 00889	FSK 200/1000	(AB/Danix/M PJ)
F06	12128	11-11	1120	Sat	Russian diplo/intel. Header: 11166 50046 54391 10017 00889	FSK 200/1000	(AB/Danix/M PJ)
F06	22871	11-11	1500	Sat	Russian diplo/intel. Header: 11166 40133 51937 09035 01409	FSK 200/1000	(Danix)
F06	20629	11-11	1510	Sat	Russian diplo/intel. Header: 11166 40133 51937 09035 01409	FSK 200/1000	(Danix)
F06	18553	11-11	1520	Sat	Russian diplo/intel. Header: 11166 40133 51937 09035 01409	FSK 200/1000	(Danix)
F06	15623	12-11	0900	Sun	Russian diplo/intel. Header: 11166 70147 23590 10069 02169	FSK 200/1000	(AB/Danix)
F06	13469	12-11	0910	Sun	Russian diplo/intel. Header: 11166 70147 23590 10069 02169	FSK 200/1000	(AB/Danix)
F06	11569	12-11	0920	Sun	Russian diplo/intel. Header: 11166 70147 23590 10069 02169	FSK 200/1000	(AB/Danix)
F06	20868	12-11	1000	Sun	Russian diplo/intel. Header: 11166 70004 48263 10001 00689	FSK 200/1000	(AB/Danix/RL)
F06	18259	12-11	1010	Sun	Russian diplo/intel. Header: 11166 70004 48263 10001 00689	FSK 200/1000	(AB/Danix)
F06	16113	12-11	1020	Sun	Russian diplo/intel. Header: 11166 70004 48263 10001 00689	FSK 200/1000	(AB/Danix)
F06	16236	12-11	1100	Sun	Russian diplo/intel. Header: 11166 50046 54391 10017 00889	FSK 200/1000	(AB/Danix/M PJ)
F06	14417	12-11	1110	Sun	Russian diplo/intel. Header: 11166 50046 54391 10017 00889	FSK 200/1000	(AB/Danix/M PJ)
F06	12128	12-11	1120	Sun	Russian diplo/intel. Header: 11166 50046 54391 10017 00889	FSK 200/1000	(AB/Danix/M PJ)
F06	22871	12-11	1500	Sun	Russian diplo/intel. Header: 11166 40133 51937 09035 01409	FSK 200/1000	(Danix)
F06	20629	12-11	1510	Sun	Russian diplo/intel. Header: 11166 40133 51937 09035 01409	FSK 200/1000	(Danix)
F06	18553	12-11	1520	Sun	Russian diplo/intel. Header: 11166 40133 51937 09035 01409	FSK 200/1000	(Danix)
F06	10644	12-11	1530	Sun	Russian diplo/intel. 11166 10053 35420 12001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix/M PJ)
F06	8159	12-11	1540	Sun	Russian diplo/intel. 11166 10053 35420 12001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix/M PJ)
F06	7438	12-11	1550	Sun	Russian diplo/intel. 11166 10053 35420 12001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix/M PJ)
F06	8164	14-11	1510	Tue	Russian diplo/intel. 11166 00052 46291 14099 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	6773	14-11	1520	Tue	Russian diplo/intel. 11166 00052 46291 14099 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	10536	14-11	1650	Tue	Russian diplo/intel. 11166 10053 35791 14001 00049 00000 00000 00000 00000	FSK 200/1000	(MPJ)
F06	8174	14-11	1700	Tue	Russian diplo/intel. 11166 10053 35791 14001 00049 00000 00000 00000 00000	FSK 200/1000	(MPJ)
F06	7318	14-11	1710	Tue	Russian diplo/intel. 11166 10053 35791 14001 00049 00000 00000 00000 00000	FSK 200/1000	(MPJ)
F06	20082	15-11	0600	Wed	Russian diplo/intel. 11166 40122 54697 15039 00049 00000 00000 00000 00000	FSK 200/1000	(AB-KOR)
F06	18207	15-11	0610	Wed	Russian diplo/intel. 11166 40122 54697 15039	FSK	(AB-CHN)

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F06	16141	15-11	0620	Wed	Russian diplo/intel. 11166 40122 54697 15039 00049 00000 00000 00000 00000	FSK	(AB-CHN)
F06	19104	15-11	0800	Wed	Russian diplo/intel. 11166 70048 12345 15049 00049 00000 00000 00000 00000	FSK	(AB)
F06	17428	15-11	0810	Wed	Russian diplo/intel. 11166 70048 12345 15049 00049 00000 00000 00000 00000	FSK	(AB)
F06	15603	15-11	0820	Wed	Russian diplo/intel. 11166 70048 12345 15049 00049 00000 00000 00000 00000	FSK	(AB)
F06	13397	15-11	0957	Wed	Russian diplo/intel i.p. Ends with 59706 06987 38257 00000	FSK	(MPJ)
F06	11162	16-11	1330	Thu	Russian diplo/intel. 11166 80214 15987 16022 00049 00000 00000 00000 00000	FSK	(AB/MPJ)
F06	9915	16-11	1340	Thu	Russian diplo/intel. 11166 80214 15987 16022 00049 00000 00000 00000 00000	FSK	(AB/MPJ)
F06	8187	16-11	1350	Thu	Russian diplo/intel. 11166 80214 15987 16022 00049 00000 00000 00000 00000	FSK	(AB/MPJ)
F06	16236	18-11	1050	Sat	Russian diplo/intel. Test: 21683539705420886726956420886726905434	FSK	(AB)
F06	16236	18-11	1100	Sat	Russian diplo/intel. Header: 11166 50046 78325 17018 00909	FSK	(AB/Danix)
F06	14417	18-11	1110	Sat	Russian diplo/intel. Header: 11166 50046 78325 17018 00909	FSK	(AB/Danix)
F06	12128	18-11	1120	Sat	Russian diplo/intel. Header: 11166 50046 78325 17018 00909	FSK	(AB/Danix)
F06	22871	18-11	1500	Sat	Russian diplo/intel. 11166 40133 35791 18001 00049 00000 00000 00000 00000	FSK	(Danix)
F06	20629	18-11	1510	Sat	Russian diplo/intel. 11166 40133 35791 18001 00049 00000 00000 00000 00000	FSK	(Danix)
F06	18553	18-11	1520	Sat	Russian diplo/intel. 11166 40133 35791 18001 00049 00000 00000 00000 00000	FSK	(Danix)
F06	16236	19-11	1100	Sun	Russian diplo/intel. Header: 11166 50046 78325 17018 00909	FSK	(AB)
F06	14417	19-11	1110	Sun	Russian diplo/intel. Header: 11166 50046 78325 17018 00909	FSK	(AB/MPJ)
F06	12128	19-11	1120	Sun	Russian diplo/intel. Header: 11166 50046 78325 17018 00909	FSK	(AB/MPJ)
F06	10644	19-11	1530	Sun	Russian diplo/intel. 11166 10053 13579 19001 00049 00000 00000 00000 00000	FSK	(AB/MPJ)
F06	8159	19-11	1540	Sun	Russian diplo/intel. 11166 10053 13579 19001 00049 00000 00000 00000 00000	FSK	(AB/MPJ)
F06	7438	19-11	1550	Sun	Russian diplo/intel. 11166 10053 13579 19001 00049 00000 00000 00000 00000	FSK	(AB/MPJ)
F06	7658	20-11	0500	Mon	Russian diplo/intel. 11166 70059 13579 20001 00049 00000 00000 00000 00000	FSK	(AB)
F06	6778	20-11	0520	Mon	Russian diplo/intel. 11166 70059 13579 20001 00049 00000 00000 00000 00000	FSK	(AB)
F06	5361	20-11	0530	Mon	Russian diplo/intel. 11166 70059 13579 20001 00049 00000 00000 00000 00000	FSK	(AB)
F06	10844	21-11	1500	Tue	Russian diplo/intel. 11166 00052 35789 21025 00049 00000 00000 00000 00000	FSK	(AB)
F06	8164	21-11	1510	Tue	Russian diplo/intel. 11166 00052 35789 21025 00049 00000 00000 00000 00000	FSK	(AB)
F06	6773	21-11	1520	Tue	Russian diplo/intel. 11166 00052 35789 21025 00049 00000 00000 00000 00000	FSK	(AB)
F06	10536	21-11	1650	Tue	Russian diplo/intel. 11166 10053 15487 21067 00049 00000 00000 00000 00000	FSK	(AB/MPJ)
F06	8174	21-11	1700	Tue	Russian diplo/intel. 11166 10053 15487 21067 00049 00000 00000 00000 00000	FSK	(AB/MPJ)
F06	7318	21-11	1710	Tue	Russian diplo/intel. 11166 10053 15487 21067	FSK	(AB/MPJ)

					00049 00000 00000 00000 00000	200/1000	
F06	20082	22-11	0600	Wed	Russian diplo/intel. Header: 11166 40122 16243 18048 03789	FSK 200/1000	(AB-J)
F06	18207	22-11	0610	Wed	Russian diplo/intel. Header: 11166 40122 16243 18048 03789	FSK 200/1000	(AB-KOR)
F06	16141	22-11	0620	Wed	Russian diplo/intel. Header: 11166 40122 16243 18048 03789	FSK 200/1000	(AB-KOR)
F06	19104	22-11	0800	Wed	Russian diplo/intel. 11166 70048 76580 22050 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	17428	22-11	0810	Wed	Russian diplo/intel. 11166 70048 76580 22050 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	15603	22-11	0820	Wed	Russian diplo/intel. 11166 70048 76580 22050 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	20476	22-11	0900	Wed	Russian diplo/intel. Header: 11166 00052 83627 21022 02229	FSK 200/1000	(AB/Danix)
F06	20476	22-11	0900	Wed	Russian diplo/intel. Header: 11166 00052 83627 21022 02229	FSK 200/1000	(AB/Danix)
F06	18915	22-11	0910	Wed	Russian diplo/intel. Header: 11166 00052 83627 21022 02229	FSK 200/1000	(AB/Danix)
F06	18915	22-11	0910	Wed	Russian diplo/intel. Header: 11166 00052 83627 21022 02229	FSK 200/1000	(AB/Danix)
F06	16238	22-11	0920	Wed	Russian diplo/intel. Header: 11166 00052 83627 21022 02229	FSK 200/1000	(AB/Danix)
F06	16238	22-11	0920	Wed	Russian diplo/intel. Header: 11166 00052 83627 21022 02229	FSK 200/1000	(AB/Danix)
F06	20349	22-11	1015	Wed	Russian diplo/intel. 11166 10031 35791 22001 00049 00000 00000 00000 00000	FSK 200/1000	(AB- RUS/RL/MPJ)
F06	18573	22-11	1025	Wed	Russian diplo/intel. 11166 10031 35791 22001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/RL/MPJ)
F06	16245	22-11	1035	Wed	Russian diplo/intel. 11166 10031 35791 22001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/RL/MPJ)
F06	20082	23-11	0600	Thu	Russian diplo/intel. Header: 11166 40122 16243 18048 03789	FSK 200/1000	(AB-PHL)
F06	18207	23-11	0610	Thu	Russian diplo/intel. Header: 11166 40122 16243 18048 03789	FSK 200/1000	(AB-PHL)
F06	16141	23-11	0620	Thu	Russian diplo/intel. Header: 11166 40122 16243 18048 03789	FSK 200/1000	(AB-KOR)
F06	11162	23-11	1330	Thu	Russian diplo/intel. 11166 80214 16324 23049 00059 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	9915	23-11	1340	Thu	Russian diplo/intel. 11166 80214 16324 23049 00059 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	8187	23-11	1350	Thu	Russian diplo/intel. 11166 80214 16324 23049 00059 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	16345	25-11	0910	Sat	Russian diplo/intel. Header: 11166 70147 64821 22070 03129	FSK 200/1000	(Danix)
F06	14358	25-11	0920	Sat	Russian diplo/intel. Header: 11166 70147 64821 22070 03129	FSK 200/1000	(Danix)
F06	20868	25-11	1000	Sat	Russian diplo/intel. Header: 11166 70004 48263 10001 00689	FSK 200/1000	(AB- RUS/Danix/M PJ)
F06	18259	25-11	1010	Sat	Russian diplo/intel. Header: 11166 70004 48263 10001 00689	FSK 200/1000	(AB/Danix/M PJ)
F06	16113	25-11	1020	Sat	Russian diplo/intel. Header: 11166 70004 48263 10001 00689	FSK 200/1000	(AB/Danix/M PJ/BvR)
F06	16236	25-11	1100	Sat	Russian diplo/intel. 11166 50046 03457 25089 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix/M PJ)
F06	14417	25-11	1110	Sat	Russian diplo/intel. 11166 50046 03457 25089 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix/M PJ)
F06	12128	25-11	1120	Sat	Russian diplo/intel. 11166 50046 03457 25089 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix/M PJ)

F06	22871	25-11	1500	Sat	Russian diplo/intel. 11166 40133 46387 25036 00049 00000 00000 00000 00000	FSK 200/1000	(AB- UKR/Danix/Bv R)
F06	20629	25-11	1510	Sat	Russian diplo/intel. 11166 40133 46387 25036 00049 00000 00000 00000 00000	FSK 200/1000	(AB- UKR/Danix/Bv R)
F06	18553	25-11	1520	Sat	Russian diplo/intel. 11166 40133 46387 25036 00049 00000 00000 00000 00000	FSK 200/1000	(AB- UKR/Danix/M PJ)
F06	16345	26-11	0910	Sun	Russian diplo/intel. Header: 11166 70147 64821 22070 03129	FSK 200/1000	(AB)
F06	18376	26-11	0910	Sun	Russian diplo/intel. Header: 11166 70147 64821 22070 03129	FSK 200/1000	(AB)
F06	14358	26-11	0920	Sun	Russian diplo/intel. Header: 11166 70147 64821 22070 03129	FSK 200/1000	(AB)
F06	20868	26-11	1000	Sun	Russian diplo/intel. Header: 11166 70004 48263 10001 00689	FSK 200/1000	(AB-RUS/RL)
F06	18259	26-11	1010	Sun	Russian diplo/intel. Header: 11166 70004 48263 10001 00689	FSK 200/1000	(AB/MPJ)
F06	16113	26-11	1020	Sun	Russian diplo/intel. Header: 11166 70004 48263 10001 00689	FSK 200/1000	(AB/MPJ)
F06	10644	26-11	1530	Sun	Russian diplo/intel. 11166 10053 35791 26001 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS/MPJ)
F06	8159	26-11	1540	Sun	Russian diplo/intel. 11166 10053 35791 26001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	7438	26-11	1550	Sun	Russian diplo/intel. 11166 10053 35791 26001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	10844	28-11	1500	Tue	Russian diplo/intel. 11166 00052 12489 28025 00059 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	8164	28-11	1510	Tue	Russian diplo/intel. 11166 00052 12489 28025 00059 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	6773	28-11	1520	Tue	Russian diplo/intel. 11166 00052 12489 28025 00059 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	10536	28-11	1650	Tue	Russian diplo/intel. 11166 10053 36782 28001 00049 00000 00000 00000 00000	FSK 200/1000	(MPJ)
F06	8174	28-11	1700	Tue	Russian diplo/intel. 11166 10053 36782 28001 00049 00000 00000 00000 00000	FSK 200/1000	(MPJ)
F06	7318	28-11	1710	Tue	Russian diplo/intel. 11166 10053 36782 28001 00049 00000 00000 00000 00000	FSK 200/1000	(MPJ)
F06	20082	29-11	0600	Wed	Russian diplo/intel. 2 Messages. Headers: 11166 40122 25014 25049 02029 and 11166 40122 98765 25050 02899	FSK 200/1000	(AB-KOR)
F06	18207	29-11	0610	Wed	Russian diplo/intel. 2 Messages. Headers: 11166 40122 25014 25049 02029 and 11166 40122 98765 25050 02899	FSK 200/1000	(AB-KOR)
F06	16141	29-11	0620	Wed	Russian diplo/intel. 2 Messages. Headers: 11166 40122 25014 25049 02029 and 11166 40122 98765 25050 02899	FSK 200/1000	(AB-KOR)
F06	19104	29-11	0800	Wed	Russian diplo/intel. 11166 70048 52147 29071 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	17428	29-11	0810	Wed	Russian diplo/intel. 11166 70048 52147 29071 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	15603	29-11	0820	Wed	Russian diplo/intel. 11166 70048 52147 29071 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	20082	30-11	0600	Thu	Russian diplo/intel. 2 Messages. Headers: 11166 40122 25014 25049 02029 and 11166 40122 98765 25050 02899	FSK 200/1000	(AB-KOR)
F06	18207	30-11	0610	Thu	Russian diplo/intel. 2 Messages. Headers: 11166 40122 25014 25049 02029 and 11166 40122 98765 25050 02899	FSK 200/1000	(AB-KOR)

F06	16141	30-11	0620	Thu	Russian diplo/intel. 2 Messages. Headers: 11166 40122 25014 25049 02029 and 11166 40122 98765 25050 02899	FSK 200/1000	(AB-KOR)
F06	11162	30-11	1330	Thu	Russian diplo/intel. 11166 80214 57184 30090 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	9915	30-11	1340	Thu	Russian diplo/intel. 11166 80214 57184 30090 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	8187	30-11	1350	Thu	Russian diplo/intel. 11166 80214 57184 30090 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F11	9370	1-11	0845	Wed	0353 00000	FSK 100/620	(AB)
F11	9370	1-11	0850	Wed	0353 00000	FSK 100/620	(AB)
F11	6836	2-11	0800	Thu	0434 00000	FSK 100/620	(AB)
F11	6836	2-11	0805	Thu	0434 00000	FSK 100/620	(AB)
F11	6836	6-11	0800	Mon	0434 00000	FSK 100/620	(AB)
F11	6836	6-11	0805	Mon	0434 00000	FSK 100/620	(AB)
F11	9370	6-11	0845	Mon	0353 00000	FSK 100/620	(AB)
F11	9370	6-11	0850	Mon	0353 00000	FSK 100/620	(AB)
F11	6807	7-11	1150	Tue	0325 00000	FSK 100/620	(AB)
F11	6807	7-11	1155	Tue	0325 00000	FSK 100/620	(AB)
F11	9370	8-11	0845	Wed	0353 00000	FSK 100/620	(AB)
F11	9370	8-11	0850	Wed	0353 00000	FSK 100/620	(AB)
F11	6807	8-11	1150	Wed	0325 00000	FSK 100/620	(AB)
F11	6807	8-11	1155	Wed	0325 00000	FSK 100/620	(AB)
F11	6836	9-11	0800	Thu	0434 00000	FSK 100/620	(AB)
F11	6836	9-11	0805	Thu	0434 00000	FSK 100/620	(AB)
F11	9370	13-11	0845	Mon	0353 88888 88888 82848 35084 57886 ... 57120 50957 41321 88888 88888 00044 00044	FSK 100/620	(AB)
F11	9370	13-11	0850	Mon	0353 88888 88888 82848 35084 57886 ... 57120 50957 41321 88888 88888 00044 00044	FSK 100/620	(AB)
F11	6807	14-11	1150	Tue	0325 00000	FSK 100/620	(AB)
F11	6807	14-11	1155	Tue	0325 00000	FSK 100/620	(AB)
F11	9370	15-11	0845	Wed	0353 88888 88888 82848 35084 57886 ... 57120 50957 41321 88888 88888 00044 00044	FSK 100/620	(AB)
F11	9370	15-11	0850	Wed	0353 88888 88888 82848 35084 57886 ... 57120 50957 41321 88888 88888 00044 00044	FSK 100/620	(AB)
F11	6807	15-11	1150	Wed	0325 00000	FSK 100/620	(AB)
F11	6807	15-11	1155	Wed	0325 00000	FSK 100/620	(AB)
F11	6836	16-11	0800	Thu	0434 00000	FSK 100/620	(AB)
F11	6836	16-11	0805	Thu	0434 00000	FSK 100/620	(AB)
F11	6836	20-11	0800	Mon	0434 88888 88888 10095 89543 52585 ... 46628 03633 91890 88888 88888 00041 00041	FSK 100/620	(AB)
F11	6836	20-11	0805	Mon	0434 88888 88888 10095 89543 52585 ... 46628 03633 91890 88888 88888 00041 00041	FSK 100/620	(AB)
F11	9370	20-11	0845	Mon	0353 00000	FSK 100/620	(AB)
F11	9370	20-11	0850	Mon	0353 00000	FSK 100/620	(AB)
F11	6807	21-11	1150	Tue	0325 00000	FSK 100/620	(AB)
F11	6807	21-11	1155	Tue	0325 00000	FSK 100/620	(AB)
F11	9370	22-11	0845	Wed	0353 00000	FSK 100/620	(AB)
F11	9370	22-11	0850	Wed	0353 00000	FSK 100/620	(AB)
F11	6807	22-11	1150	Wed	0325 00000	FSK 100/620	(AB)
F11	6807	22-11	1155	Wed	0325 00000	FSK 100/620	(AB)
F11	6836	23-11	0800	Thu	0434 88888 88888 10095 89543 52585 ... 46628 03633 91890 88888 88888 00041 00041	FSK 100/620	(AB)
F11	6836	23-11	0805	Thu	0434 88888 88888 10095 89543 52585 ... 46628 03633 91890 88888 88888 00041 00041	FSK 100/620	(AB)
F11	6836	27-11	0800	Mon	0434 00000	FSK 100/620	(AB)
F11	6836	27-11	0805	Mon	0434 00000	FSK 100/620	(AB)
F11	9370	27-11	0845	Mon	0353 00000	FSK 100/620	(AB)
F11	9370	27-11	0850	Mon	0353 00000	FSK 100/620	(AB)
F11	6807	28-11	1150	Tue	0325 88888 88888 94035 56822 78103 ... 86539	FSK 100/620	(AB/MPJ)

					26432 64339 88888 88888 00037 00037		
F11	6807	28-11	1155	Tue	0325 88888 88888 94035 56822 78103 ... 86539	FSK 100/620	(AB/MPJ)
					26432 64339 88888 88888 00037 00037		
F11	9370	29-11	0845	Wed	0353 00000	FSK 100/620	(AB)
F11	9370	29-11	0850	Wed	0353 00000	FSK 100/620	(AB)
F11	6807	29-11	1150	Wed	0325 88888 88888 94035 56822 78103 ... 86539	FSK 100/620	(AB/MPJ)
					26432 64339 88888 88888 00037 00037		
F11	6807	29-11	1155	Wed	0325 88888 88888 94035 56822 78103 ... 86539	FSK 100/620	(AB/MPJ)
					26432 64339 88888 88888 00037 00037		
F11	6836	30-11	0800	Thu	0434 00000	FSK 100/620	(AB)
F11	6836	30-11	0805	Thu	0434 00000	FSK 100/620	(AB)
G06	5320	6-11	0800	Mon	329 329 329 00000 Windows shut down sound	USB	(AB/HFD)
G06	3645	6-11	1700	Mon	563 563 563 00000	USB	(Danix/HFD)
G06	4559	6-11	1800	Mon	563 563 563 00000	USB	(AB/HFD)
G06	4460	9-11	1300	Thu	329 329 329 00000 Windows sounds.	USB	(AB-RUS/MPJ/ES/HFD)
G06	4519	9-11	1830	Thu	271 149 52 12265 10965 47839 ... 53234 05124	USB	(AB/MPJ/HFD)
					95732 149 52 00000 Windows shut down sound)
G06	4792	10-11	1920	Fri	Windows sound	USB	(AB)
G06	4792	10-11	1930	Fri	436 847 58 67391 24518 97497 ... 21645 72848	USB	(AB/MPJ)
					69529 847 58 00000		
G06	3641	13-11	1703	Mon	563 563 563 00000 Late start	USB	(AB)
G06	4559	13-11	1800	Mon	563 563 563 00000	USB	(MPJ/BvR)
G06	4570	15-11	1200	Wed	563 563 563 00000	USB	(AB-RUS)
G06	4570	15-11	1211	Wed	111 111 111 00000	USB	(AB-RUS)
G06	4010	15-11	1300	Wed	563 563 563 00000	USB	(AB-RUS)
G06	5320	20-11	0759	Mon	329 329 329 00000	USB	(AB-RUS)
G06	4460	23-11	1259	Thu	329 329 329 00000	USB	(AB-POL)
G06	4519	23-11	1829	Thu	271 289 54 12345 89657 45632 ... 64618 84021	USB	(AB/MPJ)
					72492 289 54 00000		
G06	4792	24-11	1930	Fri	436 134 57 69834 91020 28974 ... 72813 26743	USB	(AB/MPJ)
					84732 134 57 00000		
HM01	11435	1-11	1557	Wed	41363 70377 75834 57225 63677 78711	AM/RDFT	(RR2)
HM01	11435	2-11	1557	Thu	41364 70378 75835 57226 22261 78712	AM/RDFT	(RR2)
HM01	16180	3-11	2057	Fri	41364 70378 75835 57226 22261 78712	AM/RDFT	(RL)
HM01	17480	3-11	2157	Fri	41364 70378 75835 57226 22261 78712	AM/RDFT	(RL)
HM01	11435	4-11	1602	Sat	41366 16421 75837 57228 22262 78714	AM/RDFT	(RR2)
HM01	16180	4-11	2057	Sat	41366 16421 75837 57228 22262 78714	AM/RDFT	(RL)
HM01	17480	4-11	2157	Sat	41366 16421 75837 57228 22262 78714	AM/RDFT	(RL)
HM01	11530	5-11	1701	Sun	41367 16421 75838 57229 22263 78715	AM/RDFT	(RR2)
HM01	11635	6-11	1807	Mon	Abruptly on at 1807z and in progress: 41368 16422	AM/RDFT	(RR2)
					75839 26711 22264 78716		
HM01	11435	7-11	1558	Tue	43711 16423 31821 26711 22265 78717	AM/RDFT	(AB)
HM01	11635	7-11	1759	Tue	43711 16423 31821 26711 22265 78717	AM/RDFT	(BvR)
HM01	17480	7-11	2157	Tue	43711 16423 31821 26711 22265 78717	AM/RDFT	(RL)
HM01	11435	8-11	1558	Wed	Nothing from 1558z thru 1604z then abruptly and in	AM/RDFT	(RR2)
					progress at 1605z: 43711 16424 31821 26712 22266		
					78718		
HM01	11635	8-11	1846	Wed	i.p. 43711 16424 31821 26712 22266 78718	AM/RDFT	(DSch)
HM01	14462	9-11	0505	Thu	i.p. 43711 16424 31821 26712 22266 78718	AM/RDFT	(BW3)
HM01	11635	9-11	1802	Thu	43712 16425 31822 26713 22267 78719 with on/off	AM/RDFT	(RR2)
					problems		
HM01	16180	9-11	2057	Thu	43712 16425 31822 26713 22267 78719	AM/RDFT	(RR2)
HM01	17480	9-11	2157	Thu	43712 16425 31822 26713 22267 78719	AM/RDFT	(RR2)
HM01	11435	10-11	1558	Fri	43713 16426 31823 26714 22268 35461	AM/RDFT	(RR2)
HM01	11530	10-11	1704	Fri	i.p. 43713 16426 31823 26714 22268 35461	AM/RDFT	(BW3)
HM01	11635	10-11	1757	Fri	43713 16426 31823 26714 22268 35461	AM/RDFT	(AB-USA)
HM01	11435	11-11	1630	Sat	43714 16427 31824 26715 22269 35461	AM/RDFT	(RR2)
HM01	16180	11-11	2057	Sat	43714 16427 31824 26715 22269 35461	AM/RDFT	(RL)

HM01	17480	11-11	2157	Sat	43714 16427 31824 26715 22269 35461	AM/RDFT	(RL)
HM01	11435	12-11	1600	Sun	43715 16428 31825 26716 43731 35462	AM/RDFT	(RR2)
HM01	10715	12-11	2200	Sun	43715 16428 31825 26716 43731 35462	AM/RDFT	(Dan)
HM01	11435	13-11	1608	Mon	i.p. 43716 16429 31826 26717 43731 35463	AM/RDFT	(RR2)
HM01	11435	14-11	1558	Tue	43717 83311 31827 26718 43732 35464	AM/RDFT	(RR2)
HM01	11635	14-11	1759	Tue	43717 83311 31827 2678 43732 35464	AM/RDFT	(DSch)
HM01	9330	15-11	0657	Wed	43717 83311 31827 2678 43732 35464	AM/RDFT	(AB)
HM01	9065	15-11	0757	Wed	43717 83311 31827 2678 43732 35464	AM/RDFT	(AB)
HM01	11435	15-11	1608	Wed	i.p. 43718 83311 31828 42771 43733 35465	AM/RDFT	(RR2)
HM01	11435	16-11	1603	Thu	Abruptly on and in progress 38311 83312 31829 42771 43734 35466	AM/RDFT	(RR2)
HM01	10345	17-11	0558	Fri	38311 83312 31829 42771 43734 35466	AM/RDFT	(AB)
HM01	11435	17-11	1600	Fri	38311 83313 27731 42772 43735 35467	AM/RDFT	(RR2)
HM01	11530	17-11	1704	Fri	i.p. 38311 83313 27731 42772 43735 35467	AM/RDFT	(DSch)
HM01	11435	18-11	1608	Sat	38312 83314 27731 42773 43736 35468	AM/RDFT	(RR2)
HM01	11435	19-11	1557	Sun	38313 83315 27732 42774 43737 35469	AM/RDFT	(RR2)
HM01	17480	19-11	2157	Sun	38312 83314 27731 42773 43736 35468	AM/RDFT	(RL)
HM01	11530	20-11	1657	Mon	38314 83316 27733 42775 24041 84301	AM/RDFT	(RR2)
HM01	11635	20-11	2057	Mon	38314 83316 27733 42775 24041 84301	AM/RDFT	(RL)
HM01	10715	20-11	2157	Mon	38314 83316 27733 42775 24041 84301	AM/RDFT	(RL)
HM01	11435	21-11	1602	Tue	i.p. 38315 83317 27734 42776 24041 84301	AM/RDFT	(RR2)
HM01	16180	21-11	2057	Tue	38315 83317 27734 42776 24041 84301	AM/RDFT	(RL)
HM01	17480	21-11	2157	Tue	38315 83317 27734 42776 24041 84301	AM/RDFT	(RL)
HM01	9155	22-11	0957	Wed	38315 83317 27734 42776 24041 84301	AM/RDFT	(RL)
HM01	11530	22-11	1701	Wed	i.p. 38316 83318 27735 42777 24042 84302	AM/RDFT	(RR2)
HM01	11435	23-11	1600	Thu	abruptly on and in progress 38317 83319 27736 42778 24043 84303	AM/RDFT	(RR2)
HM01	11435	24-11	1600	Fri	i.p. 38318 37311 27737 12501 24044 84304	AM/RDFT	(RR2)
HM01	11435	25-11	1557	Sat	38319 37311 27738 12501 24045 84305	AM/RDFT	(RR2)
HM01	16180	25-11	2057	Sat	38319 37311 27738 12501 24045 84305	AM/RDFT	(RL)
HM01	17480	25-11	2157	Sat	38319 37311 27738 12501 24045 84305	AM/RDFT	(RL)
HM01	9330	26-11	0657	Sun	38319 37311 27738 12501 24045 84305	AM/RDFT	(AB)
HM01	11435	26-11	1628	Sun	36851 37312 27739 12502 24046 84306	AM/RDFT	(RR2)
HM01	11635	26-11	2057	Sun	36851 37312 27739 12502 24046 84306	AM/RDFT	(RL)
HM01	9240	27-11	0857	Mon	36851 37312 27739 12502 24046 84306	AM/RDFT	(RL)
HM01	9155	27-11	0957	Mon	36851 37312 27739 12502 24046 84306	AM/RDFT	(RL)
HM01	11435	27-11	1557	Mon	36851 37313 11521 12503 24047 84307	AM/RDFT	(RR2)
HM01	11462	28-11	0857	Tue	36851 37313 11521 12503 24047 84307	AM/RDFT	(RL)
HM01	11435	28-11	1627	Tue	36852 37314 11521 12504 24048 84308	AM/RDFT	(RR2)
HM01	16180	28-11	2057	Tue	36852 37314 11521 12504 24048 84308	AM/RDFT	(RL)
HM01	17480	28-11	2157	Tue	36852 37314 11521 12504 24048 84308	AM/RDFT	(RL)
HM01	9240	29-11	0857	Wed	36852 37314 11521 12504 24048 84308	AM/RDFT	(RL)
HM01	9155	29-11	0957	Wed	36852 37314 11521 12504 24048 84308	AM/RDFT	(RL)
HM01	11435	29-11	1627	Wed	i.p. 36853 37315 11522 12505 24049 84309	AM/RDFT	(RR2)
HM01	11635	29-11	2057	Wed	36853 37315 11522 12505 24049 84309	AM/RDFT	(RL)
HM01	10715	29-11	2157	Wed	36853 37315 11522 12505 24049 84309	AM/RDFT	(RL)
HM01	11435	30-11	1557	Thu	36854 37316 11523 12506 63321 57411	AM/RDFT	(RR2)
HM01	16180	30-11	2057	Thu	36854 37316 11523 12506 63321 57411	AM/RDFT	(RL)
HM01	17480	30-11	2057	Thu	36854 37316 11523 12506 63321 57411	AM/RDFT	(RL)
M01	5320	2-11	1800	Thu	197	CW	(HFD)
M01	5320	2-11	1800	Thu	197 157 30 = = 98373 73991 63087 ... 01788 63971 73122 = 157 30 000	CW	(MPJ/HFD)
M01	4490	2-11	2000	Thu	197 946 30=83338 old format	CW	(HFD)
M01	4490	2-11	2000	Thu	197 946 30 = = 83348 36346 45515 ... 10907 00785 98542 = = 946 30 000	CW	(MPJ/HFD)
M01	5320	7-11	1800	Tue	197 147/30 78902 27586 30684 ... 50340 54972 86083 147/30 000 000	CW	(MPJ)
M01	4490	7-11	2000	Tue	197 125/30 09159 10334 08260 VA 08260 ... 07749 94338 38397 125/30 000 000	CW	(MPJ)
M01	5810	11-11	1503	Sat	i.p. 197 430 30 = 38915 40594 44217 ... 31669 41181	MCW	(HFD/ES)

					86060 430 30 000		
M01	5320	14-11	1800	Tue	197 117 30 93446 46267 19544 ... 14678 45203 37594 = = 117 30 000	CW	(MPJ)
M01	4490	14-11	2000	Tue	197 358 30 = = 90031 05876 80351 ... 61244 08227 62852 = = 358 30 000	CW	(MPJ)
M01	5320	16-11	1800	Thu	197 987 30=987 Es 3330 333 30 .6017 8312861.. (faded - it's a mess!)	CW	(MPJ)
M01	4490	16-11	2005	Thu	Callup gibberish however: 197 987 30 19008 36383 88788 ... 90002 23771 44026 987 30 987 30 0 0 0	CW	(MPJ)
M01	5812.2	18-11	1500	Sat	197 321/30 14561 55024 55147 ... 63888 44457 25087 321/30 000. Pre/postamble sent once.	CW	(MPJ)
M01	5465	19-11	0700	Sun	197 127 127 30 30 = = 12278 61126 32159 ... 92823 12273 21306 = = 127 127 30 30 000	MCW	(AB)
M01	5320	21-11	1800	Tue	197 567 30 ... (traffic uncopiable).	CW	(MPJ)
M01	4490	21-11	2000	Tue	197 865 30 05574 84463 80362 ... 55433 55455 47627 = = 865 30 00	CW	(MPJ)
M01	5320	23-11	1800	Thu	197 161 30 78306 95799 85267 ... 28435 85290 97166 16130 000	CW	(MPJ)
M01	4490	23-11	2000	Thu	197 981 30 55084 88187 12788 ... 50838 83445 13397 = = 981 30 000	CW	(MPJ)
M01	5812.2	25-11	1505	Sat	i.p. 94115 93304 ... 32144 28166 92826 = = 254 30 000. Callup & preamble missed.	CW	(MPJ)
M01	5465	26-11	0700	Sun	197 378 6 30 378 30 59236 78180 89646 ... 97487 54505 56685 378 30 000	MCW	(AB)
M01	5320	28-11	1759	Tue	197 421 30 = = 63367 05479 15162 ... 95693 35480 77241 = = 421 30 000	CW	(MPJ)
M01	4490	28-11	2000	Tue	197 546 30 = = 88411 34983 92867 ... 37057 95252 41972 = = 546 30 000	CW	(MPJ-HNG)
M01a	8111	2-11	0632	Thu	536 536 536 34667 34667 536 536 536 32280 32280	CW	(ES-HOL)
M01a	10233	7-11	0621	Tue	354 (x3) 78505 (x2) (Rx12) 354 (x3) 79626 (x2) (Rx4) 111 999 00009 00030 18864 ... 76321 00040 00009 00000 = 009 35 000	CW	(ES-HOL)
M01b	2470	2-11	1932	Thu	910 395 31 = = 20650 22146 47579 ... 00607 2918. 92677 = = 395 31 000 //3545 kHz	MCW	(MPJ/HFD)
M01b	3545	2-11	1932	Thu	910 395 31 = = 20650 22146 47579 ... 00607 2918. 92677 = = 395 31 000 //2470 kHz	MCW	(MPJ/HFD)
M01b	2485	2-11	2042	Thu	382 395 31 = = 20650 22146 47579 ... 00607 2918. 92677 = = 395 31 000 //3160 kHz	MCW	(MPJ/HFD)
M01b	3160	2-11	2042	Thu	382 395 31 = = 20650 22146 47579 ... 00607 2918. 92677 = = 395 31 000 //2485 kHz	MCW	(MPJ/HFD)
M01b	2655	3-11	2002	Fri	866 395 31 = = 20650 22146 47579 ... 00607 29188 92677 = = 395 31 000 //3195 kHz	MCW	(MPJ)
M01b	3195	3-11	2002	Fri	866 395 31 = = 20650 22146 47579 ... 00607 29188 92677 = = 395 31 000 //2655 kHz	MCW	(MPJ)
M01b	2405	3-11	2110	Fri	610 395 31=20650 //3180	CW	(HFD)
M01b	3180	3-11	2110	Fri	610 395 31=20650 //2405	CW	(HFD)
M01b	2435	6-11	1908	Mon	853 395 31=20650 //3519	CW	(HFD)
M01b	3519	6-11	1908	Mon	853 395 31=20650 //2435	CW	(HFD)
M01b	3520	6-11	1910	Mon	853 395 31 = = 20650 22146 47579 ... 00607 29188 92677 = = 395 31 000	MCW	(MPJ)
M01b	2425	6-11	2015	Mon	375 395 31 = = 20650 22146 47579 ... 00607 29188 92677 = = 395 31 000 //3205 kHz	MCW	(MPJ/HFD)
M01b	3205	6-11	2015	Mon	375 395 31 = = 20650 22146 47579 ... 00607 29188 92677 = = 395 31 000 //2425 kHz	MCW	(MPJ/HFD)
M01b	2470	9-11	1932	Thu	395 31 = = 20650 22146 47579 ... 00607 29188 92677 = = 395 31 000	MCW	(MPJ)
M01b	2655	10-11	1932	Fri	866 395 31 = = 20650 22146 47579 ... 00607 29188 92677 = = 395 31 000 //3195 kHz	MCW	(MPJ)
M01b	3195	10-11	1932	Fri	866 395 31 = = 20650 22146 47579 ... 00607 29188 92677 = = 395 31 000 //2655 kHz	MCW	(MPJ)

M01b	2435	13-11	1910	Mon	853 395 31 = = 20650 22146 47579 ... 00607 29188 92677 = = 395 31 000 //3520 kHz	MCW	(MPJ)
M01b	3520	13-11	1910	Mon	853 395 31 = = 20650 22146 47579 ... 00607 29188 92677 = = 395 31 000 //2435 kHz	MCW	(MPJ)
M01b	2425	13-11	2015	Mon	i.p. 3271 79982 95414 ... 00607 29188 92677 = = 395 31 000 //3205 kHz	MCW	(MPJ)
M01b	3205	13-11	2015	Mon	i.p. 3271 79982 95414 ... 00607 29188 92677 = = 395 31 000 //2425 kHz	MCW	(MPJ)
M01b	10233	14-11	0626	Tue	i.p. 354 (x3) 79626 79.... 111 999 00003 00030 87185 ... 15626 00030 00003 00000 = 003 35 000	MCW	(ES)
M01b	10651	14-11	0715	Tue	i.p. 78384 05166 15033 ... 15626 00030 00004 00000 = 004 35 000	MCW	(ES)
M01b	2470	16-11	1932	Thu	910 395 31 = = 20650 22146 47579 ... 00607 29188 92677 = = 395 31 000 //3545 kHz	MCW	(MPJ)
M01b	3545	16-11	1932	Thu	910 395 31 = = 20650 22146 47579 ... 00607 29188 92677 = = 395 31 000 //2470 kHz	MCW	(MPJ)
M01b	2655	17-11	2002	Fri	866 395 31 = = 20650 22146 47579 ... 00607 29188 92677 = = 395 31 000 //3195 kHz	MCW	(MPJ)
M01b	3195	17-11	2002	Fri	866 395 31 = = 20650 22146 47579 ... 00607 29188 92677 = = 395 31 000 //2655 kHz	MCW	(MPJ)
M01b	2435	20-11	1910	Mon	853 395 31 = = 20650 22146 47579 ... 00607 29188 92677 = = 395 31 000 //3520 kHz	MCW	(MPJ)
M01b	3520	20-11	1910	Mon	853 395 31 = = 20650 22146 47579 ... 00607 29188 92677 = = 395 31 000 //2435 kHz	MCW	(MPJ)
M01b	2425	20-11	2015	Mon	375 395 31 = = 20650 22146 47579 ... 00607 29188 92677 = = 395 31 000 //3205 kHz	MCW	(MPJ)
M01b	3205	20-11	2015	Mon	375 395 31 = = 20650 22146 47579 ... 00607 29188 92677 = = 395 31 000 //2425 kHz	MCW	(MPJ)
M01b	10233	21-11	0622	Tue	354 (x3) 78505 (x2) (Rx12) 354 (x3) 77629 (x2) (Rx10) 354 (x2)	MCW	(ES)
M01b	10651	21-11	0711	Tue	Test Tones. 297 (x3) 38180 (x2) (Rx11) 297 (x3) 39318 (x2) (Rx11)	MCW	(ES)
M01b	9129	22-11	0531	Wed	498 (x3) 42482 (x2) 498 (x3) 53173 (x2) (Rx8) 498 (x3) 52482 (x2) (Rx6) 498 (x3) 53173 (x2) 498 (x3) 53067 (x2) (Rx4)	MCW	(ES)
M01b	2470	23-11	1932	Thu	910 395 31 = = 20650 22146 47579 ... 00607 29188 92677 = = 395 31 000 //3545 kHz	MCW	(MPJ)
M01b	3545	23-11	1932	Thu	910 395 31 = = 20650 22146 47579 ... 00607 29188 92677 = = 395 31 000 //2470 kHz	MCW	(MPJ)
M01b	2655	24-11	2002	Fri	866 395 31 = = 20650 22146 47579 ... 00607 29188 92677 = = 395 31 000 //3195 kHz	MCW	(AB)
M01b	3195	24-11	2002	Fri	866 395 31 = = 20650 22146 47579 ... 00607 29188 92677 = = 395 31 000 //2655 kHz	MCW	(AB)
M01b	3520	27-11	1910	Mon	853 395 31 = = 20650 22146 47579 ... 00607 29188 92677 = = 395 31 000	MCW	(MPJ)
M01b	2425	27-11	2015	Mon	375 395 31 = = 20650 22146 47579 ... 00607 29188 92677 = = 395 31 000 //3205 kHz	MCW	(MPJ)
M01b	3205	27-11	2015	Mon	375 395 31 = = 20650 22146 47579 ... 00607 29188 92677 = = 395 31 000 //2425 kHz	MCW	(MPJ)
M01b	2470	30-11	1932	Thu	910 395 31 = = 20650 22146 47579 ... 00607 29188 92677 = = 395 31 000 //3545 kHz	MCW	(MPJ)
M01b	3545	30-11	1932	Thu	910 395 31 = = 20650 22146 47579 ... 00607 29188 92677 = = 395 31 000 //2470 kHz	MCW	(MPJ)
M08a	8096	8-11	1420	Wed	in progress	CW	(GR)
M08a	8135	17-11	2300	Fri	RUERN NUTRN NUTRN NUTRN ENVRN = = = then new message that ended with DIDTA TEITA DIDTA LIDTA DIDTA = = = then another message. Ends with SK	CW	(GR)
M08a	8135	30-11	2254	Thu	Early start	CW	(Sha)
M12	16296	1-11	1400	Wed	273 273 273 1 3320 87 3320 87 44489 81719 00790	CW	(AB/MPJ/HFD)

					... 96225 57177 27798 000 000)
M12	14796	1-11	1420	Wed	273 273 273 1 3320 87 3320 87 44489 81719 00790	CW	(AB/MPJ/HFD)
					... 96225 57177 27798 000 000)
M12	13396	1-11	1440	Wed	273 273 273 1 3320 87 3320 87 44489 81719 00790	CW	(AB/MPJ)
					... 96225 57177 27798 000 000)
M12	9176	1-11	1700	Wed	257 257 257 1 9074 100 9074 100 68299 21879	CW	(AB/MPJ/HFD)
					89531 ... 85295 79508 44200 000 000)
M12	7931	1-11	1720	Wed	257 257 257 1 9074 100 9074 100 68299 21879	CW	(AB/MPJ/HFD)
					89531 ... 85295 79508 44200 000 000)
M12	6904	1-11	1740	Wed	257 257 257 1 9074 100 9074 100 68299 21879	CW	(AB/MPJ/HFD)
					89531 ... 85295 79508 44200 000 000)
M12	9176	1-11	1800	Wed	257 257 257 1263 130 1263 130 27443 77819 77866	CW	(AB/MPJ)
					... 90449 29923 51352 000 000)
M12	7931	1-11	1820	Wed	257 257 257 1263 130 1263 130 27443 77819 77866	CW	(AB/MPJ/HFD)
					... 90449 29923 51352 000 000)
M12	6904	1-11	1840	Wed	257 257 257 1263 130 1263 130 27443 77819 77866	CW	(AB/MPJ/HFD)
					... 90449 29923 51352 000 000)
M12	8047	1-11	1900	Wed	463 463 463 1 5390 139 5390 139 34558 38027	CW	(AB/MPJ/HFD)
					63271 ... 71203 31232 10279 000 000)
M12	6802	1-11	1920	Wed	463 463 463 1 5390 139 5390 139 34558 38027	CW	(AB/MPJ/HFD)
					63271 ... 71203 31232 10279 000 000)
M12	5788	1-11	1940	Wed	463 463 463 1 5390 139 5390 139 34558 38027	CW	(AB/MPJ/HFD)
					63271 ... 71203 31232 10279 000 000)
M12	7536	1-11	2050	Wed	581 581 581 000	CW	(HFD)
M12	6836	1-11	2110	Wed	581 581 581 000	CW	(HFD)
M12	5429	1-11	2200	Wed	460 460 460 1 5022 81 5022 81 71980 54522 56328	CW	(AB)
					... 36702 40608 31716 000 000)
M12	4629	1-11	2220	Wed	460 460 460 1 5022 81 5022 81 71980 54522 56328	CW	(AB)
					... 36702 40608 31716 000 000)
M12	4029	1-11	2240	Wed	460 460 460 1 5022 81 5022 81 71980 54522 56328	CW	(AB)
					... 36702 40608 31716)
M12	9162	2-11	1310	Thu	104 104 104 1 7919 59 7919 59 25459 71883 46144	CW	(AB/MPJ/ES/HFD)
					... 99023 34988 24510 000 000)
M12	8062	2-11	1330	Thu	104 104 104 1 7919 59 7919 59 25459 71883 46144	CW	(AB/MPJ/ES/HFD)
					... 99023 34988 24510 000 000)
M12	7462	2-11	1350	Thu	104 104 104 1 7919 59 7919 59 25459 71883 46144	CW	(AB/MPJ/ES/HFD)
					... 99023 34988 24510 000 000)
M12	14377	2-11	1700	Thu	317 317 317 1 3699 105 3699 105 92186 63274	CW	(AB/MPJ)
					21726 ... 69151 10142 33541 000 000)
M12	13461	2-11	1720	Thu	317 317 317 1 3699 105 3699 105 92186 63274	CW	(AB/MPJ)
					21726 ... 69151 10142 33541 000 000)
M12	12114	2-11	1740	Thu	317 317 317 1 3699 105 3699 105 92186 63274	CW	(AB/MPJ)
					21726 ... 69151 10142 33541 000 000)
M12	6937	2-11	2210	Thu	975 975 975 000	CW	(HFD)
M12	5737	2-11	2230	Thu	975 975 975 000	CW	(HFD)
M12	7536	3-11	2050	Fri	581 581 581 000	CW	(AB)
M12	6836	3-11	2110	Fri	581 581 581 000	CW	(AB/RL)
M12	7637	4-11	0600	Sat	612 612 612 1 5022 81 5022 81 71980 54522 56328	CW	(AB/ES/HFD)
					... 36702 40608 31716 000 000)
M12	9137	4-11	0620	Sat	612 612 612 1 5022 81 5022 81 71980 54522 56328	CW	(AB/ES/HFD)
					... 36702 40608 31716 000 000)
M12	10237	4-11	0640	Sat	612 612 612 1 5022 81 5022 81 71980 54522 56328	CW	(AB/ES/HFD)
					... 36702 40608 31716 000 000)
M12	9162	4-11	1310	Sat	104 104 104 1 7919 59 7919 59 25459 71883 46144	CW	(AB/MPJ)
					... 99023 34988 24510 000 000)
M12	8062	4-11	1330	Sat	104 104 104 1 7919 59 7919 59 25459 71883 46144	CW	(AB/MPJ)
					... 99023 34988 24510 000 000)
M12	7462	4-11	1350	Sat	104 104 104 1 7919 59 7919 59 25459 71883 46144	CW	(AB/MPJ)
					... 99023 34988 24510 000 000)
M12	16296	6-11	1400	Mon	273 273 273 000	CW	(AB/MPJ)

M12	14796	6-11	1420	Mon	273 273 273 000	CW	(AB/MPJ)
M12	9176	6-11	1700	Mon	257 257 257 1 9050 100 9050 100 37882 90301 80592 ... 79453 12309 94587 000 000	CW	(AB/MPJ)
M12	7931	6-11	1720	Mon	257 257 257 1 9050 100 9050 100 37882 90301 80592 ... 79453 12309 94587 000 000	CW	(AB/MPJ/BvR)
M12	6904	6-11	1740	Mon	257 257 257 1 9050 100 9050 100 37882 90301 80592 ... 79453 12309 94587 000 000	CW	(AB/MPJ/BvR)
M12	11435	6-11	1910	Mon	938 938 938 1 2490 78 2490 78 34413 92351 71768 ... 62609 09827 15572 000 000	CW	(AB/MPJ)
M12	10598	6-11	1930	Mon	938 938 938 1 2490 78 2490 78 34413 92351 71768 ... 62609 09827 15572 000 000	CW	(AB/MPJ)
M12	9327	6-11	1950	Mon	938 938 938 1 2490 78 2490 78 34413 92351 71768 ... 62609 09827 15572 000 000	CW	(AB/MPJ)
M12	16296	8-11	1400	Wed	273 273 273 000	CW	(AB/MPJ/ES)
M12	14796	8-11	1420	Wed	273 273 273 000	CW	(AB/MPJ/ES)
M12	9176	8-11	1700	Wed	257 257 257 1 7089 108 7089 108 40995 25548 78549 ... 44741 96975 35657 000 000	CW	(AB/MPJ)
M12	7931	8-11	1720	Wed	257 257 257 1 7089 108 7089 108 40995 25548 78549 ... 44741 96975 35657 000 000	CW	(AB/MPJ)
M12	6904	8-11	1740	Wed	257 257 257 1 7089 108 7089 108 40995 25548 78549 ... 44741 96975 35657 000 000	CW	(AB/MPJ)
M12	9176	8-11	1800	Wed	257 257 257 1 1197 143 1197 143 03763 41942 41767 ... 45895 30291 01051 000 000	CW	(AB)
M12	7931	8-11	1820	Wed	257 257 257 1 1197 143 1197 143 03763 41942 41767 ... 45895 30291 01051 000 000	CW	(AB)
M12	6904	8-11	1840	Wed	257 257 257 1 1197 143 1197 143 03763 41942 41767 ... 45895 30291 01051 000 000	CW	(AB/MPJ)
M12	8047	8-11	1900	Wed	463 1 9296 148 46834 09548 62287 ... 94832 90846 68954 000 000	CW	(MPJ)
M12	6802	8-11	1920	Wed	463 1 9296 148 46834 09548 62287 ... 94832 90846 68954 000 000	CW	(MPJ)
M12	5788	8-11	1940	Wed	463 1 9296 148 46834 09548 62287 ... 94832 90846 68954 000 000	CW	(MPJ)
M12	5429	8-11	2200	Wed	460 460 460 1 2212 151 2212 151 51636 ...	CW	(AB)
M12	4629	8-11	2220	Wed	460 460 460 1 2212 151 2212 151 51636 ...	CW	(AB)
M12	4029	8-11	2240	Wed	460 460 460 1 2212 151 2212 151 51636 ...	CW	(AB)
M12	15869	9-11	1010	Thu	847 847 847 000	CW	(ES-RUS)
M12	17469	9-11	1030	Thu	847 847 847 000	CW	(ES-RUS/RL)
M12	9162	9-11	1310	Thu	104 104 104 000	CW	(AB/MPJ/ES)
M12	8062	9-11	1330	Thu	104 104 104 000	CW	(AB/MPJ/ES)
M12	7536	10-11	2050	Fri	581 581 581 000	CW	(AB/RL)
M12	6836	10-11	2110	Fri	581 581 581 000	CW	(AB/RL)
M12	7637	11-11	0600	Sat	612 612 612 1 2212 153 2212 153 58264 76214 50400 ... 39739 06908 11152 000 000	CW	(AB/ES)
M12	9137	11-11	0620	Sat	612 612 612 1 2212 153 2212 153 58264 76214 50400 ... 39739 06908 11152 000 000	CW	(AB/ES)
M12	10237	11-11	0640	Sat	612 612 612 1 2212 153 2212 153 58264 76214 50400 ... 39739 06908 11152 000 000	CW	(AB/ES)
M12	9162	11-11	1310	Sat	104 104 104 000	CW	(MPJ)
M12	8062	11-11	1330	Sat	104 104 104 000	CW	(MPJ)
M12	17469	12-11	1030	Sun	847 847 847 000	CW	(RL/MPJ)
M12	16296	13-11	1400	Mon	273 273 273 1 6938 71 6938 71 58730 08976 26610 ... 36628 40266 58643 000 000	CW	(AB/MPJ)
M12	14796	13-11	1420	Mon	273 273 273 1 6938 71 6938 71 58730 08976 26610 ... 36628 40266 58643 000 000	CW	(AB/MPJ)
M12	13396	13-11	1440	Mon	273 273 273 1 6938 71 6938 71 58730 08976 26610 ... 36628 40266 58643 000 000	CW	(AB/MPJ)
M12	9176	13-11	1700	Mon	257 257 257 1 5503 105 5503 105 65081 59089 52280 ... 62487 60504 70104 000 000	CW	(AB/MPJ)
M12	7931	13-11	1720	Mon	257 257 257 1 5503 105 5503 105 65081 59089	CW	(AB/MPJ)

... 75143 79435 13033 000 000								
M12	16296	20-11	1400	Mon	273 273 273 000	CW	(AB/MPJ)	
M12	14796	20-11	1420	Mon	273 273 273 000	CW	(AB/MPJ)	
M12	9176	20-11	1700	Mon	257 257 257 1 8757 106 8757 106 08131 76863 26303 ... 65084 62714 39838 000 000	CW	(AB/MPJ)	
M12	7931	20-11	1720	Mon	257 257 257 1 8757 106 8757 106 08131 76863 26303 ... 65084 62714 39838 000 000	CW	(AB/MPJ)	
M12	6904	20-11	1740	Mon	257 257 257 1 8757 106 8757 106 08131 76863 26303 ... 65084 62714 39838 000 000	CW	(AB/MPJ)	
M12	11435	20-11	1910	Mon	938 938 938 1 6363 84 6363 84 95797 36985 05052 ... 55504 97342 03914 000 000	CW	(AB/MPJ)	
M12	10598	20-11	1930	Mon	938 938 938 1 6363 84 6363 84 95797 36985 05052 ... 55504 97342 03914 000 000	CW	(AB/MPJ)	
M12	9327	20-11	1950	Mon	938 938 938 1 6363 84 6363 84 95797 36985 05052 ... 55504 97342 03914 000 000	CW	(AB/MPJ)	
M12	16296	22-11	1400	Wed	273 273 273 000	CW	(MPJ/ES)	
M12	14796	22-11	1420	Wed	273 273 273 000	CW	(MPJ/ES)	
M12	9176	22-11	1700	Wed	257 257 257 1 2061 101 2061 101 67476 09831 64854 ... 27345 92471 47419 000 000	CW	(AB/MPJ)	
M12	7931	22-11	1720	Wed	257 257 257 1 2061 101 2061 101 67476 09831 64854 ... 27345 92471 47419 000 000	CW	(AB/MPJ)	
M12	6904	22-11	1740	Wed	257 257 257 1 2061 101 2061 101 67476 09831 64854 ... 27345 92471 47419 000 000	CW	(AB/MPJ)	
M12	9176	22-11	1800	Wed	257 1 5934 143 15348 37027 57230 ... 17753 70273 23434 000 000	CW	(MPJ)	
M12	7931	22-11	1820	Wed	257 1 5934 143 15348 37027 57230 ... 17753 70273 23434 000 000	CW	(MPJ)	
M12	6904	22-11	1840	Wed	257 1 5934 143 15348 37027 57230 ... 17753 70273 23434 000 000	CW	(MPJ)	
M12	8047	22-11	1900	Wed	463 1 1338 134 91451 19796 85711 ... 32938 42952 75822 000 000	CW	(MPJ)	
M12	6802	22-11	1920	Wed	463 1 1338 134 91451 19796 85711 ... 32938 42952 75822 000 000	CW	(MPJ)	
M12	5788	22-11	1940	Wed	463 1 1338 134 91451 19796 85711 ... 32938 42952 75822 000 000	CW	(MPJ)	
M12	6836	22-11	2110	Wed	581 581 581 000	CW	(RL)	
M12	5429	22-11	2200	Wed	460 460 460 1 7787 135 7787 135 75975 82696 18714 ... 89932 17710 41987 000 000	CW	(AB)	
M12	4629	22-11	2220	Wed	460 460 460 1 7787 135 7787 135 75975 82696 18714 ... 89932 17710 41987 000 000	CW	(AB)	
M12	4029	22-11	2240	Wed	460 460 460 1 7787 135 7787 135 75975 82696 18714 ... 89932 17710 41987 000 000	CW	(AB)	
M12	15869	23-11	1010	Thu	847 847 847 000	CW	(AB)	
M12	17469	23-11	1030	Thu	847 847 847 000	CW	(AB)	
M12	9162	23-11	1310	Thu	104 104 104 1 8788 89 8788 89 27241 70392 35480 ... 53447 06476 73183 06410 000 000	CW	(AB/MPJ)	
M12	8062	23-11	1330	Thu	104 104 104 1 8788 89 8788 89 27241 70392 35480 ... 53447 06476 73183 06410 000 000	CW	(AB/MPJ)	
M12	7462	23-11	1350	Thu	104 104 104 1 8788 89 8788 89 27241 70392 35480 ... 53447 06476 73183 06410 000 000	CW	(AB/MPJ)	
M12	12114	23-11	1700	Thu	317 1 7181 107 53012 69318 96461 ... 29146 82565 33551 000 000	CW	(MPJ)	
M12	13461	23-11	1700	Thu	317 1 7181 107 53012 69318 96461 ... 29146 82565 33551 000 000	CW	(MPJ)	
M12	14377	23-11	1700	Thu	317 1 7181 107 53012 69318 96461 ... 29146 82565 33551 000 000	CW	(MPJ)	
M12	7536	24-11	2050	Fri	581 581 581 000	CW	(AB)	
M12	6836	24-11	2110	Fri	581 581 581 000	CW	(AB)	
M12	7637	25-11	0600	Sat	612 612 612 1 7787 135 7787 135 75975 82696 18714 ... 89932 17710 41987 000 000	CW	(AB)	

M12	9137	25-11	0620	Sat	612 612 612 1 7787 135 7787 135 75975 82696 18714 ... 89932 17710 41987 000 000	CW	(AB)
M12	10237	25-11	0640	Sat	612 612 612 1 7787 135 7787 135 75975 82696 18714 ... 89932 17710 41987 000 000	CW	(AB/BvR)
M12	9162	25-11	1310	Sat	104 104 104 1 8788 89 8788 89 27241 70392 35480 ... 53447 06476 73183 06410 000 000	CW	(AB/MPJ)
M12	8062	25-11	1330	Sat	104 104 104 1 8788 89 8788 89 27241 70392 35480 ... 53447 06476 73183 06410 000 000	CW	(AB/MPJ/BvR)
M12	7462	25-11	1350	Sat	104 104 104 1 8788 89 8788 89 27241 70392 35480 ... 53447 06476 73183 06410 000 000	CW	(AB)
M12	15869	26-11	1010	Sun	847 847 847 000	CW	(RL/MPJ)
M12	17469	26-11	1030	Sun	847 847 847 000	CW	(RL/MPJ)
M12	16296	27-11	1400	Mon	273 273 273 1 7222 125 7222 125 33808 40342 17018 ... 19593 66069 90569 000 000	CW	(AB-HNG)
M12	14796	27-11	1420	Mon	273 273 273 1 7222 125 7222 125 33808 40342 17018 ... 19593 66069 90569 000 000	CW	(AB-HNG)
M12	13396	27-11	1440	Mon	273 273 273 1 7222 125 7222 125 33808 40342 17018 ... 19593 66069 90569 000 000	CW	(AB-HNG)
M12	9176	27-11	1700	Mon	257 257 257 1 2278 101 2278 101 65627 71444 28855 ... 51418 98173 07274 000 000	CW	(AB/MPJ)
M12	7931	27-11	1720	Mon	257 257 257 1 2278 101 2278 101 65627 71444 28855 ... 51418 98173 07274 000 000	CW	(AB/MPJ)
M12	6904	27-11	1740	Mon	257 257 257 1 2278 101 2278 101 65627 71444 28855 ... 51418 98173 07274 000 000	CW	(AB/MPJ)
M12	10598	27-11	1930	Mon	938 1 5775 82 31776 31933 16369 ... 63551 19387 74951 000 000	CW	(MPJ)
M12	9327	27-11	1950	Mon	938 1 5775 82 31776 31933 16369 ... 63551 19387 74951 000 000	CW	(MPJ)
M12	16296	29-11	1400	Wed	273 273 273 1 7222 125 7222 125 33808 40342 17018 ... 19593 66069 90569 000 000	CW	(AB/MPJ)
M12	14796	29-11	1420	Wed	273 273 273 1 7222 125 7222 125 33808 40342 17018 ... 19593 66069 90569 000 000	CW	(AB/MPJ)
M12	13396	29-11	1440	Wed	273 273 273 1 7222 125 7222 125 33808 40342 17018 ... 19593 66069 90569 000 000	CW	(AB/MPJ)
M12	9176	29-11	1700	Wed	257 257 257 1 7139 108 7139 108 39548 99835 22089 ... 40148 04416 27411 000 000	CW	(AB/MPJ)
M12	7931	29-11	1720	Wed	257 257 257 1 7139 108 7139 108 39548 99835 22089 ... 40148 04416 27411 000 000	CW	(AB/MPJ)
M12	6904	29-11	1740	Wed	257 257 257 1 7139 108 7139 108 39548 99835 22089 ... 40148 04416 27411 000 000	CW	(AB/MPJ)
M12	9176	29-11	1800	Wed	257 157 157 1 5232 141 5232 141 72290 22522 59659 ... 65383 91035 30033 000 000	CW	(AB/MPJ)
M12	7931	29-11	1820	Wed	257 157 157 1 5232 141 5232 141 72290 22522 59659 ... 65383 91035 30033 000 000	CW	(AB/MPJ)
M12	6904	29-11	1840	Wed	257 157 157 1 5232 141 5232 141 72290 22522 59659 ... 65383 91035 30033 000 000	CW	(AB/MPJ)
M12	5788	29-11	1900	Wed	463 1 1267 130 97393 60007 99564 ... 86477 33397 81719 000 000	CW	(MPJ)
M12	6802	29-11	1900	Wed	463 1 1267 130 97393 60007 99564 ... 86477 33397 81719 000 000	CW	(MPJ)
M12	8047	29-11	1900	Wed	463 1 1267 130 97393 60007 99564 ... 86477 33397 81719 000 000	CW	(MPJ)
M12	7536	29-11	2050	Wed	581 581 581 000	CW	(AB/RL)
M12	6836	29-11	2110	Wed	581 581 581 000	CW	(AB/RL)
M12	15869	30-11	1010	Thu	847 847 847 1 9537 71 9537 71 60620 50785 11025 ... 83417 10999 22180 000 000	CW	(AB)
M12	17469	30-11	1030	Thu	847 847 847 1 9537 71 9537 71 60620 50785 11025 ... 83417 10999 22180 000 000	CW	(AB/RL)
M12	18769	30-11	1050	Thu	847 847 847 1 9537 71 9537 71 60620 50785 11025 ... 83417 10999 22180 000 000	CW	(AB)

M12	9162	30-11	1310	Thu	104 104 104 000	CW	(AB)
M12	8062	30-11	1330	Thu	104 104 104 000	CW	(AB)
M12	14377	30-11	1700	Thu	317 317 317 1 8240 105 8240 105 77449 10905 08074 ... 71114 24988 25700 000 000	CW	(AB-RUS/MPJ)
M12	13461	30-11	1720	Thu	317 317 317 1 8240 105 8240 105 77449 10905 08074 ... 71114 24988 25700 000 000	CW	(AB-RUS/MPJ)
M12	12114	30-11	1740	Thu	317 317 317 1 8240 105 8240 105 77449 10905 08074 ... 71114 24988 25700 000 000	CW	(AB-RUS/MPJ)
M14	18041	1-11	0500	Wed	952 146 146 50 50 == 56345 79504 71912 ... 29812 30689 07517 == 146 146 50 50 00000	CW	(AB-CHN)
M14	18041	2-11	0500	Thu	952 378 378 60 60 == 63374 16752 04099 ... 33368 64081 79547 == 378 378 60 60 00000	CW	(AB-KOR)
M14	10423	2-11	1131	Thu	058 372 372 51 51 == 44381 96967 28264 ... 59860 51495 32263 == 372 372 51 51 00000	CW	(ES-HOL)
M14	8167	2-11	1203	Thu	058 372 372 51 51 == 44381 96967 28264 ... 59860 51495 32263 == 372 372 51 51 00000	CW	(ES-HOL)
M14	18041	3-11	0500	Fri	952 604 604 55 55 == 70995 45170 58021 ... 75135 41338 01584 == 604 604 55 55 00000	CW	(AB-CHN/HFD)
M14	5374	3-11	1700	Fri	382 468 468 62 62 53445 74877 17033 ... 25256 43002 46271 468 468 62 62 00000	MCW	(MPJ/HFD)
M14	4975	3-11	1800	Fri	382 468 468 62 62 53445 74877 17033 ... 25256 43002 46271 468 468 62 62 00000	MCW	(AB/HFD)
M14	5430	4-11	0800	Sat	171 027 027 45 45 45632 17653 27362 ... 10956 37509 27843 027 027 45 45 00000	MCW	(AB/HFD)
M14	5560	4-11	0900	Sat	171 027 027 45 45 45632 17653 27362 ... 10956 37509 27843 027 027 45 45 00000	MCW	(AB/HFD)
M14	5240	5-11	2300	Sun	171 027 027 45 45 45632 17653 27362 ... 10956 37509 27843 027 027 45 45 00000	MCW	(AB/HFD)
M14	5825	6-11	0000	Mon	171 027 027 45 45 45632 17653 27362 ... 10956 37509 27843 027 027 45 45 00000	MCW	(AB)
M14	9463	7-11	1306	Tue	i.p. 77683 48073 20524 01929 ... 07089 80293 87738 19182 08168 00000	CW	(ES)
M14	3681	7-11	1559	Tue	273 357 357 78 78 61726 87672 13683 68842 72 EEEEEE pause, then resumes i25 j 06238 57262 33212 80679 ... 59689 92847 60577 357 357 78 78 00000	MCW	(AB/MPJ/ES)
M14	4023	8-11	1600	Wed	273 357 357 78 78 61726 87672 13683 ... 59689 92847 60577 357 357 78 78 00000	MCW	(AB/MPJ/ES)
M14	18041	9-11	0500	Thu	952 861 861 50 50 == 21264 21946 64798 ... 58047 17675 53858 == 861 861 50 50 00000	CW	(AB-CHN)
M14	18041	10-11	0500	Fri	952 370 370 60 60 == 36587 86965 43193 ... 30826 10499 99026 == 370 370 60 60 00000	CW	(AB-KOR)
M14	17458	10-11	0930	Fri	617 617 617 00000	CW	(ES)
M14	17458	10-11	0930	Fri	617 617 617 00000	MCW	(AB-RUS/RL)
M14	5430	11-11	0800	Sat	171 025 30 34253 75648 ... 75624 70689 025 30 00000	CW	(ES)
M14	5560	11-11	0900	Sat	171 025 30 34253 75648 ... 75624 70689 025 30 00000	CW	(ES)
M14	5240	12-11	2300	Sun	376 025 025 30 30 34253 75648 07912 ... 25634 75624 70689 025 025 30 30 00000	MCW	(AB)
M14	5825	13-11	0000	Mon	376 025 025 30 30 34253 75648 07912 ... 25634 75624 70689 025 025 30 30 00000	MCW	(AB)
M14	18041	13-11	0500	Mon	952 468 468 50 50 == 77735 70089 28751 ... 52464 98047 79447 == 468 468 50 50 00000	CW	(AB-PHL)
M14	18041	14-11	0500	Tue	952 170 170 55 55 == 29301 20270 62562 ... 18667 55299 28211 == 170 10 55 55 00000	CW	(AB-PHL)
M14	4636	14-11	1820	Tue	186 263 263 47 47 == 24315 75648 94857 ... 16425 63524 17652 == 263 263 47 47 00000	MCW	(AB/MPJ)
M14	4761	15-11	1920	Wed	748 935 65 71790 19041 63426 ... 64987 54897 31189 935 65 00000	MCW	(MPJ)

M14	18041	16-11	0500	Thu	952 187 187 60 60 == 59242 67632 21540 ... 67313 65365 34423 == 187 187 60 60 00000	CW	(AB-PHL)
M14	10423	16-11	1133	Thu	058 694 694 50 50 == 19564 25227 06651 ... 93056 89566 75203 == 694 694 50 50 00000	CW	(Benka)
M14	18041	17-11	0500	Fri	952 360 360 50 50 == 11825 67559 09789 ... 78431 77925 96682 == 360 360 50 50 00000	CW	(AB-PHL)
M14	5374	17-11	1700	Fri	382 382 382 00000	MCW	(AB/MPJ)
M14	4975	17-11	1800	Fri	382 382 382 00000	MCW	(AB/MPJ)
M14	5430	18-11	0800	Sat	171 121 121 56 56 45644 45646 81348 ... 02458 81230 67312 121 121 56 56 00000	MCW	(AB)
M14	5560	18-11	0900	Sat	171 121 121 56 56 45644 45646 81348 ... 02458 81230 67312 121 121 56 56 00000	MCW	(AB)
M14	5240	19-11	2300	Sun	376 121 121 56 56 45644 45646 81348 ... 02458 81230 67312 121 121 56 56 00000	MCW	(AB)
M14	5825	20-11	0000	Mon	376 121 121 56 56 45644 45646 81348 ... 02458 81230 67312 121 121 56 56 00000	MCW	(AB)
M14	18041	21-11	0500	Tue	952 703 703 50 50 == 56674 71204 72835 ... 03677 49483 59135 == 703 703 50 50 00000	CW	(AB-PHL)
M14	3687	21-11	1600	Tue	273 273 273 00000	MCW	(AB/MPJ)
M14	18041	22-11	0500	Wed	952 436 436 50 50 == 51893 18681 23433 ... 95870 06031 33206 == 436 436 50 50 00000	CW	(AB-PHL)
M14	4023	22-11	1600	Wed	273 0	CW	(HFD)
M14	18041	23-11	0500	Thu	952 871 871 60 60 == 08186 18158 48131 ... 54085 18819 75874 == 871 871 60 60 00000	CW	(AB-PHL)
M14	18041	24-11	0500	Fri	952 640 640 50 50 == 77531 91798 00840 ... 94436 22978 24416 == 640 640 50 50 00000	CW	(AB-PHL)
M14	5430	25-11	0800	Sat	171 121 121 56 56 45644 45646 81348 ... 02458 81230 67312 121 121 56 56 00000	MCW	(AB-UKR)
M14	5560	25-11	0900	Sat	171 121 121 56 56 45644 45646 81348 ... 02458 81230 67312 121 121 56 56 00000	MCW	(AB-UKR)
M14	17458	25-11	0930	Sat	617 617 617 00000	CW	(AB/RL)
M14	5240	26-11	2300	Sun	376 354 354 42 42 46626 42621 42179 ... 45567 46521 79541 354 354 42 42 00000	MCW	(AB)
M14	5825	27-11	0002	Mon	Late start. 376 354 354 42 42 46626 42621 42179 ... 45567 46521 79541 354 354 42 42 00000	MCW	(AB)
M14	18041	27-11	0500	Mon	952 279 279 55 55 == 00446 06171 15508 ... 16106 87902 36129 == 279 279 55 55 00000	CW	(AB-PHL)
M14	18041	28-11	0500	Tue	952 408 408 61 61 == 33880 53636 44365 ... 00721 45223 54208 == 408 408 61 61 00000	CW	(AB-PHL)
M14	4636	28-11	1820	Tue	186 354 354 42 42 46626 42621 42179 ... 45567 46521 79541 354 354 42 42 00000	MCW	(AB/MPJ)
M14	4761	29-11	1920	Wed	748 354 354 42 42 46626 42621 42179 ... 45567 46521 79541 354 354 42 42 00000	MCW	(AB/MPJ)
M14	18041	30-11	0502	Thu	Late start. 952 748 748 50 50 == 70821 64893 92636 ... 10542 64931 48998 == 748 748 50 50 00000	CW	(AB-PHL)
M22	6607	10-11	1627	Fri	VVV DE 4ZX 4ZX == NO6L QSL NR 36 / 47 == ZT6N NR 171 TO NR 371 QQL == EC6W NR 671 PJ GR 04 == FP7Y NR 571 QC GR 03 ==	CW	(AB)
M22	6607	30-11	1855	Thu	VVV 4XZ 4XZ ==	CW	(AB)
M32	12152	5-11	0805	Sun	Russian mil: OALP OALP OALP OALP 981 19 51 100 981 = 37 3 = 11111 26 464 93588 ...	CW	(BvR)
M32	7931	8-11	1223	Wed	7MJQ 7MJQ 7MJQ de 6Q7H 6Q7H QBE QYT9 K	CW	(MPJ)
M32	5596	8-11	1518	Wed	1U9U wkg KSSA: ZQW ZHO ZBG QYT4	CW	(AnEur)
M32	5596	8-11	1536	Wed	1U9U wkg KSSA: ZXP ZVX ZZZ QYT4	CW	(AnEur)
M32	5771	13-11	1158	Mon	VVV 2TF7 2TF7 2TF7 DE LDLS LDLS K. VVV 2TF7 DE 5ZPL K	CW	(JPL-Sib)
M32	10154	16-11	0612	Thu	i.p. RPT K. K K K RPT K. K QRX 95856 94845 QSY 99413 99216 QSW 99993 99765 K = 99665 SK	CW	(JPL-Sib)
M32	7691	16-11	0728	Thu	i.p. 7807 = 6355 = 7579 = 3896 = 0903 = etc. GR 110 = 0388 = 8214 = 9950 = 7619 = 4338 = 4681 = etc. M	CW	(JPL-J)

AR K QSA 3 K DE WDTIT = KARNIZ 8090 K							
M32	5596	16-11	1603	Thu	T89A wkg FLJZ, TV8X, IXTO, Y4S2, DN2Y	CW	(AnEur)
M32	8408	19-11	0830	Sun	i.p. ZPTP 834 22 19 1123 834 = 493 = PPPPP OVRJV QRWUR CVL\U\H FTXZL ...	CW	(JPL-Sib)
M32	4245	20-11	1204	Mon	BVNP DE SPXL K. TFXP DE SPXL K. C9IA DE SPXL K. OF4G DE SPXL K. 2NBO DE SPXL K. VFHN DE SPXL K. MG8I DE SPXL K	CW	(JPL)
M32	4050	21-11	2003	Tue	VV 8IUZ DE DNN1 K. VV B7UX DE DNN1 K	CW	(JPL-CHN)
M32	5318	27-11	0801	Mon	i.p. 50 27 1020 636 = 421 = DDDDD ABVKI WW EEEEE ABVKI WRNNE YQVBK ...	CW	(JPL-NOR)
M32	4567	27-11	0805	Mon	XXX XXX LMGV LMGV 33359 KALXKA 74951 33359 KALXKA 74951 K	CW	(JPL-NOR)
M32	4725	27-11	1555	Mon	XXX XXX Y2VU Y2VUY 82720 82720 XXX XXX Y2VU Y2VU 82720 82720 K RK RK	CW	(AB)
M32	4725	27-11	1643	Mon	INDZ DE O1PE QSA? K. KUVS DE O1PE QSA? K. QSA1 R K. PAQI DE O1PE QSA? K. RPT K. QSA1 R K. P1FV DE O1PE QSA? K. QSA1 R K	CW	(AB)
M32	6888	27-11	1829	Mon	VVV VVV IKSZ DE 2MW3 K	CW	(AB)
M32	6888	27-11	1829	Mon	VVV VVV IKSZ DE 2MW3 K	CW	(AB)
M32	4725	27-11	1847	Mon	KUVS DE O1PE QSA? K. VVV O1PE ZAE ZCC QLS QSW 3 K. RPT K. OK K AS O1PE K	CW	(AB)
M32	11468	29-11	1258	Wed	XXX XXX RDL RDL 01140 71212 TIRSONII 6688 9688 //14411 kHz	CW	(JU)
M32	14411	29-11	1258	Wed	XXX XXX RDL RDL 01140 71212 TIRSONII 6688 9688 //11468 kHz	CW	(JU)
M32	11468	29-11	1300	Wed	XXX XXX RDL RDL 73420 28974 BUZOTERSKIJ 7316 7382 //14411 kHz	CW	(JU)
M32	14411	29-11	1300	Wed	XXX XXX RDL RDL 73420 28974 BUZOTERSKIJ 7316 7382 //11468 kHz	CW	(JU)
M32	11468	29-11	1303	Wed	XXX XXX RDL RDL 81057 94585 UVAZOKREZ 9504 7307 //14411 kHz	CW	(JU)
M32	14411	29-11	1303	Wed	XXX XXX RDL RDL 81057 94585 UVAZOKREZ 9504 7307 //11468 kHz	CW	(JU)
M32	11468	29-11	1306	Wed	XXX XXX RDL RDL 28757 94240 TROSOKOKK 9705 2899 //14411 kHz	CW	(JU)
M32	14411	29-11	1306	Wed	XXX XXX RDL RDL 28757 94240 TROSOKOKK 9705 2899 //11468 kHz	CW	(JU)
M32	11468	29-11	1313	Wed	XXX XXX RDL RDL 94768 10160 FONOZYK 0871 9710 //14411 kHz	CW	(JU)
M32	14411	29-11	1313	Wed	XXX XXX RDL RDL 94768 10160 FONOZYK 0871 9710 //11468 kHz	CW	(JU)
M32	11468	29-11	1315	Wed	UUUUU XXX XXX UUUUU XXX XXX RDL RDL 49666 58261 STUKOVMYH 7666 7760 //14411 kHz	CW	(JU)
M32	14411	29-11	1315	Wed	UUUUU XXX XXX UUUUU XXX XXX RDL RDL 49666 58261 STUKOVMYH 7666 7760 //11468 kHz	CW	(JU)
M32	11468	29-11	1322	Wed	XXX XXX RDL RDL 52831 07465 TEROSPLAW 5701 1043 //14411 kHz	CW	(JU)
M32	14411	29-11	1322	Wed	XXX XXX RDL RDL 52831 07465 TEROSPLAW 5701 1043 //11468 kHz	CW	(JU)
M32	11468	29-11	1327	Wed	XXX XXX RDL RDL 73021 76725 TEHOTDEL 9024 8420 //14411 kHz	CW	(JU)
M32	14411	29-11	1327	Wed	XXX XXX RDL RDL 73021 76725 TEHOTDEL 9024 8420 //11468 kHz	CW	(JU)
M32	11468	29-11	1337	Wed	XXX XXX RDL RDL 89712 30450 RUANDA 6293 2650 //14411 kHz	CW	(JU)
M32	14411	29-11	1337	Wed	XXX XXX RDL RDL 89712 30450 RUANDA 6293 2650 //11468 kHz	CW	(JU)
M32	11468	29-11	1343	Wed	XXX XXX RDL RDL 60793 43876 URUeKOPLES 0675 7644 //14411 kHz	CW	(JU)
M32	14411	29-11	1343	Wed	XXX XXX RDL RDL 60793 43876 URUeKOPLES 0675 7644 //11468 kHz	CW	(JU)

					7644 //11468 kHz		
M32	11468	29-11	1348	Wed	XXX XXX RDL RDL 54294 21725 BOLTOWOL 7036 7154 //14411 kHz	CW	(JU)
M32	14411	29-11	1348	Wed	XXX XXX RDL RDL 54294 21725 BOLTOWOL 7036 7154 //11468 kHz	CW	(JU)
M32	11468	29-11	1433	Wed	XXX XXX RDL RDL 11442 57970 HLAMOBOL 4638 9457 //14411 kHz	CW	(JU)
M32	14411	29-11	1433	Wed	XXX XXX RDL RDL 11442 57970 HLAMOBOL 4638 9457 //11468 kHz	CW	(JU)
M32	11468	29-11	1437	Wed	XXX XXX RDL RDL 58910 65667 SKOSOLXEW 6755 9256 //14411 kHz	CW	(JU)
M32	14411	29-11	1437	Wed	XXX XXX RDL RDL 58910 65667 SKOSOLXEW 6755 9256 //11468 kHz	CW	(JU)
M32	11468	29-11	1440	Wed	XXX XXX RDL RDL 35246 72455 OeALOSYR 4375 8661 //14411 kHz	CW	(JU)
M32	14411	29-11	1440	Wed	XXX XXX RDL RDL 35246 72455 OeALOSYR 4375 8661 //11468 kHz	CW	(JU)
M32	11468	29-11	1444	Wed	XXX XXX RDL RDL 00205 94292 GNEWLIWYJ 6933 4353 //14411 kHz	CW	(JU)
M32	14411	29-11	1444	Wed	XXX XXX RDL RDL 00205 94292 GNEWLIWYJ 6933 4353 //11468 kHz	CW	(JU)
M32a	2737	5-11	1912	Sun	RMP: Russian Navy HQ Kaliningrad REO REO REO DE RMP RMP QTC 230 25 5 2010 230	CW	(BvR)
M32a	11096	8-11	0822	Wed	VVV RMSB (x3) DE RJS QSA ? K	CW	(JPL-Sib)
M32a	9145	19-11	0827	Sun	i.p. RIW QYT 4 QWH 19032 K. RIW QYT 4 QWH 19032 K	CW	(JPL-Sib)
M32a	6319	27-11	0743	Mon	XXX XXX RLO RLO FFFTI. J 01 1355 065 135 1038 K	CW	(JPL-NOR)
M32b	8816	2-11	0928	Thu	rjf94 rjc38 de 75255 qay XLPB 0923 qbd 0630 qbg 8200 k	CW	(WP3)
M32b	8816	2-11	1242	Thu	rjf94 rjc38 de 75255 qto 1235 qrd XLLP XUMO qre 1345 qbd 0830 k	CW	(WP3)
M32b	8816	2-11	1421	Thu	rjf94 rjc38 de 75253 qto 1400 qrd XLMV XLAA qbd 0700 qre XLMV 1530 k	CW	(WP3)
M42	9440	1-11	1706	Wed	Russian diplo/intel.	MFSK-16	(AB)
M42	14934	7-11	1218	Tue	Russia diplo	Serdolik-34 MFSK	(Danix)
M42	18454	13-11	1020	Mon	Russian diplo/intel.	MFSK-16	(EW)
M42	17475	13-11	1045	Mon	Russian diplo/intel i.p.	MFSK-16	(EW)
M42	16129	13-11	1109	Mon	Russian diplo/intel i.p.	MFSK-16	(EW)
M42	14954	13-11	1115	Mon	Russian diplo/intel i.p.	MFSK-16	(EW)
M42	10157	13-11	1154	Mon	RGP RGP RGP de UCU UCU QSY 17470 QSY 17470	CW	(JPL-Sib)
M42	13428	14-11	0659	Tue	Russian diplo/intel. i.p.	MFSK-16	(AB)
M42	13548	15-11	0815	Wed	Russian diplo/intel.	MFSK-66	(Danix)
M42	18454	15-11	1026	Wed	Russian diplo/intel i.p.	MFSK-16	(AB)
M42	16128	15-11	1112	Wed	Russian diplo/intel i.p.	MFSK-16	(AB)
M42	13438	16-11	0651	Thu	Russian diplo/intel i.p.	MFSK-66	(AB)
M42	15862	16-11	0956	Thu	Russian diplo/intel i.p.	MFSK-66	(AB)
M42	15826	16-11	1010	Thu	Russian diplo/intel.	MFSK-66	(AB)
M42	18454	16-11	1026	Thu	Russian diplo/intel i.p.	MFSK-16	(AB)
M42	17470	16-11	1040	Thu	Russian diplo/intel.	MFSK-16	(AB)
M42	13997	16-11	1153	Thu	Russian diplo/intel i.p.	MFSK-16	(AB)
M42	14579	16-11	1226	Thu	Russian diplo/intel i.p.	MFSK-16	(AB)
M42	13501	16-11	1230	Thu	Russian diplo/intel	MFSK-16	(AB)
M42	11529	16-11	1240	Thu	Russian diplo/intel	MFSK-16	(AB)
M42	18454	18-11	1030	Sat	Russian diplo/intel. Encrypted message	MFSK-16	(EW)
M42	17475	18-11	1042	Sat	Russian diplo/intel. Encrypted message	MFSK-68	(EW)
M42	17475	18-11	1045	Sat	Russian diplo/intel. Encrypted message	MFSK-16	(EW)
M42	16128	18-11	1100	Sat	Russian diplo/intel. Encrypted message	MFSK-16	(EW)
M42	14954	18-11	1120	Sat	Russian diplo/intel. Encrypted message	MFSK-16	(EW)
M42	17471	20-11	1030	Mon	Russian diplo/intel. Encrypted message	MFSK-16	(EW)

M42	14579	20-11	1229	Mon	Russian diplo/intel.	MFSK-16	(MCO)
M42	14546	23-11	0948	Thu	Russian diplo/intel i.p.	MFSK-16	(AB)
M42	16156	23-11	1334	Thu	Russian diplo clg UAL. QSX: 18726 kHz	CW	(MCO)
M42	15997	23-11	1402	Thu	Russian diplo.intel. Header 11100 70103 95732 23126 04009. QSX: 14746 kHz	Baudot 75/500	(MCO)
M42	11529	30-11	1045	Thu	Russian diplo/intel i.p.	MFSK-16	(AB)
M42b	4543	2-11	1914	Thu	Russian diplo/intel. 528 209 2 1900 6248 = 99259 88206 71420 36602 62120 ... 90034 =50=	FSK 50/500	(WP3)
M51	6825	19-11	1620	Sun	FAV22: Frech morse training net 5lgs and 5 fgs	CW	(BvR)
M89	4067	1-11	1151	Wed	V 6TGU (x3) DE GR4W (x2) //4847 sending a different roundslip	CW	(JPL)
M89	4847	1-11	1151	Wed	i.p. MSG NR 004 CK 499 .4 1101 1930 = NUU4 NDND 667T ... AR V Z4RQ DE 3WRX // sending a different roundslip	CW	(JPL)
M89	5479	1-11	1215	Wed	V UISD (x3) DE CBFQ (x2)	CW	(JPL)
M89	3777	1-11	1217	Wed	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	1-11	1217	Wed	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	3777	3-11	1632	Fri	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	3-11	1632	Fri	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	5479	3-11	1634	Fri	V UISD (x3) DE CBFQ (x2)	CW	(JPL)
M89	4067	3-11	1644	Fri	V 6TGU (x3) DE GR4W (x2) //4847	CW	(JPL)
M89	4847	3-11	1644	Fri	i.p. NR 013 CK 499 14 1104 0030 = NUU4 NDND 667T TDA7 ... AR V 6TGU DE GR4W //4067	CW	(JPL)
M89	4131	3-11	2131	Fri	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	5479	3-11	2131	Fri	V UISD (x3) DE CBFQ (x2)	CW	(JPL)
M89	4067	3-11	2144	Fri	V 6TGU (x3) DE GR4W (x2) //4847	CW	(JPL)
M89	4847	3-11	2144	Fri	V 6TGU (x3) DE GR4W (x2) //4067	CW	(JPL)
M89	3777	3-11	2146	Fri	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	3-11	2146	Fri	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	10231	4-11	1011	Sat	i.p. R IEC = WU AR K. VV DGS2 DE ZFQJ K	CW	(JPL)
M89	5479	4-11	1950	Sat	V 737?DU (x3) DE N4NU74D4 (x2) problems with roundslip	CW	(JPL)
M89	3777	4-11	2010	Sat	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	4-11	2010	Sat	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4067	4-11	2011	Sat	V 6TGU (x3) DE GR4W (x2) //4847	CW	(JPL)
M89	4847	4-11	2011	Sat	V 6TGU (x3) DE GR4W (x2) //4067	CW	(JPL)
M89	4131	4-11	2012	Sat	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4860	4-11	2020	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) (Machine sent) //6840	CW	(JPL)
M89	6840	4-11	2020	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) (Machine sent) //4860	CW	(JPL)
M89	6793	5-11	0138	Sun	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	8060	5-11	0138	Sun	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	10253	5-11	0141	Sun	V 6TGU (x3) DE GR4W (x2)	CW	(JPL)
M89	6169	5-11	0940	Sun	V 6TGU (x3) DE GR4W (x2) //10253	CW	(JPL)
M89	10253	5-11	0940	Sun	V 6TGU (x3) DE GR4W (x2) //6169	CW	(JPL)
M89	3777	5-11	0949	Sun	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	5-11	0949	Sun	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	5743	5-11	0952	Sun	V UISD (x3) DE CBFQ (x2)	CW	(JPL)
M89	5479	5-11	1611	Sun	V UISD (x3) DE CBFQ (x2)	CW	(JPL)
M89	3777	6-11	1508	Mon	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	6-11	1508	Mon	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4067	6-11	1510	Mon	V 6TGU (x3) DE GR4W (x2) //4847	CW	(JPL)
M89	4847	6-11	1510	Mon	V 6TGU (x3) DE GR4W (x2) //4067	CW	(JPL)
M89	4125	6-11	1512	Mon	V UISD (x3) DE CBFQ (x2) //5479	CW	(JPL)
M89	5479	6-11	1512	Mon	V UISD (x3) DE CBFQ (x2) //4125	CW	(JPL)
M89	4620	6-11	1520	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) (Machine sent) //4860 and 6840	CW	(JPL)
M89	4860	6-11	1520	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) (Machine sent) //4260 and 6840	CW	(JPL)

M89	6840	6-11	1520	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) (Machine sent) //4260 and 4860	CW	(JPL)
M89	4720	6-11	1530	Mon	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K (Hand sent) //5150	CW	(JPL)
M89	5150	6-11	1530	Mon	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K (Hand sent) //4720	CW	(JPL)
M89	6169	7-11	0035	Tue	V 6TGU (x3) DE GR4W (x2) //10253	CW	(JPL)
M89	10253	7-11	0035	Tue	V 6TGU (x3) DE GR4W (x2) //6169	CW	(JPL)
M89	4539	7-11	0037	Tue	i.p. RMKS 62.4 TO 6280 K HR NR NR 3119/EX 0835 RMKS 6264 TO 6280 =	CW	(JPL)
M89	4067	7-11	1839	Tue	V 6TGU (x3) DE GR4W (x2) //4847	CW	(JPL)
M89	4847	7-11	1839	Tue	V 6TGU (x3) DE GR4W (x2) //4067	CW	(JPL)
M89	3777	7-11	1840	Tue	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4545	7-11	1841	Tue	i.p. 745U 43AT UA46 7AD4 DTSU N46T ... AR K	CW	(JPL)
M89	4125	7-11	1850	Tue	V UISD (x3) DE CBFQ (x2) //5479	CW	(JPL)
M89	5479	7-11	1850	Tue	V UISD (x3) DE CBFQ (x2) //4125	CW	(JPL)
M89	4620	7-11	2220	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) (Machine sent) //4860 and 6840	CW	(JPL)
M89	4860	7-11	2220	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) (Machine sent) //4620 and 6840	CW	(JPL)
M89	6840	7-11	2220	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) (Machine sent) //4620 and 4860	CW	(JPL)
M89	4720	7-11	2230	Tue	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K (Hand sent) //5150	CW	(JPL)
M89	5150	7-11	2230	Tue	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K (Hand sent) //4720	CW	(JPL)
M89	4529	8-11	0006	Wed	VVV TT6 (x3) DE 3TP (x2) QRU 7858 7858 SK SK TT	CW	(JPL)
M89	7915	8-11	0006	Wed	i.p. D334 UDA5 3NTU 7U54 4D5A ... AR (0010z - Silent)	CW	(JPL)
M89	6793	8-11	0026	Wed	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	8060	8-11	0026	Wed	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	6169	8-11	0028	Wed	V 6TGU (x3) DE GR4W (x2) //10253	CW	(JPL)
M89	10253	8-11	0028	Wed	V 6TGU (x3) DE GR4W (x2) //6169	CW	(JPL)
M89	4720	8-11	0030	Wed	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K (Hand sent) //5150	CW	(JPL)
M89	5150	8-11	0030	Wed	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K (Hand sent) //4720	CW	(JPL)
M89	9131	8-11	0031	Wed	V UISD (x3) DE CBFQ (x2)	CW	(JPL)
M89	9131	8-11	0824	Wed	V UISD DE CBFQ VV SVC GA HR SVC GA NR 011 1700 RMKS 3120 6219/4542 = COMM/1.3./79A/5312/6219 AR	CW	(JPL)
M89	9395	8-11	0827	Wed	i.p. T5NU 574D U4N7 N6D7 74ND ... III 7T4D AR K	CW	(JPL)
M89	6169	9-11	0725	Thu	V 6TGU (x3) DE GR4W (x2) //10253	CW	(JPL)
M89	10253	9-11	0725	Thu	V 6TGU (x3) DE GR4W (x2) //6169	CW	(JPL)
M89	6793	9-11	0727	Thu	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	8060	9-11	0727	Thu	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	8350	9-11	0730	Thu	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K	CW	(JPL)
M89	9131	9-11	0731	Thu	V UISD (x3) DE CBFQ (x2)	CW	(JPL)
M89	10641	9-11	0739	Thu	i.p. QSL 1537 K HR MSG GA K HR NR 3192 CK 80 50 1109 1520 RMKS 6264 TO 6247 K = AT53 D473 4T65 AUTD 63U7 7A64 NU3T 5DU7 35DN ...	CW	(JPL)
M89	10918	9-11	0748	Thu	i.p. T6D5 T5D3 43AN 53NU 473T NTU5 TD5U ... AR K RPT	CW	(JPL)
M89	6890	9-11	0756	Thu	i.p. 3BD8 DE U.Q7 K R QSA 2 K HR IEC BT 5..4 AR K NR 12 K R	CW	(JPL)
M89	6725	9-11	0804	Thu	i.p. 3AU4 T756 DNU5 T5NA ...	CW	(JPL)
M89	6232	9-11	1402	Thu	i.p. T4AA T773 T6D3 T3D4 ... =	CW	(JPL)
M89	3777	9-11	1411	Thu	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	9-11	1411	Thu	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4067	9-11	1413	Thu	V 6TGU (x3) DE GR4W (x2) //4848	CW	(JPL)

M89	4847	9-11	1413	Thu	V 6TGU (x3) DE GR4W (x2) //4067	CW	(JPL)
M89	5479	9-11	1419	Thu	V UISD (x3) DE CBFG (x2)	CW	(JPL)
M89	4620	9-11	1420	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) (Machine sent) //4860 and 6840	CW	(JPL)
M89	4860	9-11	1420	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) (Machine sent) //4620 and 6840	CW	(JPL)
M89	6840	9-11	1420	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) (Machine sent) //4620 and 4860 U	CW	(JPL)
M89	4720	9-11	1430	Thu	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K (Hand sent) //5150	CW	(JPL)
M89	5150	9-11	1430	Thu	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K (Hand sent) //4720	CW	(JPL)
M89	6169	10-11	0629	Fri	V 6TGU (x3) DE GR4W (x2) //10253	CW	(JPL)
M89	10253	10-11	0629	Fri	V 6TGU (x3) DE GR4W (x2) //6169	CW	(JPL)
M89	9131	10-11	0631	Fri	V UISD (x3) DE CBFG (x2)	CW	(JPL)
M89	6793	10-11	0632	Fri	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	8060	10-11	0632	Fri	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	6169	10-11	1017	Fri	V 6TGU (x3) DE GR4W (x2) //10253	CW	(JPL)
M89	10253	10-11	1017	Fri	V 6TGU (x3) DE GR4W (x2) //6169	CW	(JPL)
M89	9131	10-11	1018	Fri	V UISD (x3) DE CBFG (x2)	CW	(JPL)
M89	3777	10-11	1019	Fri	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	10-11	1019	Fri	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	6840	10-11	1020	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) (Machine sent) //10640	CW	(JPL)
M89	10640	10-11	1020	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) (Machine sent) //6840	CW	(JPL)
M89	8350	10-11	1030	Fri	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K	CW	(JPL)
M89	6169	10-11	1047	Fri	V 6TGU (x3) DE GR4W (x2) //10253	CW	(JPL)
M89	10253	10-11	1047	Fri	GR4W i.p. AR MSG NR 040 CK 499 14 1110 1830 = UTNV 347T N3U6 D4T7 ... //6169	CW	(JPL)
M89	4067	10-11	1235	Fri	V 6TGU (x3) DE GR4W (x2) //4847	CW	(JPL)
M89	4847	10-11	1235	Fri	V 6TGU (x3) DE GR4W (x2) //4067	CW	(JPL)
M89	4477	10-11	1245	Fri	i.p. A6T4 57DU 5634 ... AR K RPT 76W = DNT3 AR ... 212 K R OK	CW	(JPL)
M89	4255	10-11	1323	Fri	i.p NR 0072 CK 129 43 1.10 2100 RMKS 6979 TO 2370 AUUA 6N57 6D5U 7T7T 7D75 6D4N ...	CW	(JPL)
M89	4067	10-11	1635	Fri	V 6TGU (x3) DE GR4W (x2) //4847	CW	(JPL)
M89	4847	10-11	1635	Fri	V 6TGU (x3) DE GR4W (x2) //4067	CW	(JPL)
M89	4131	10-11	1639	Fri	V UISD (x3) DE CBFG (x2)	CW	(JPL)
M89	6169	11-11	0127	Sat	V 6TGU (x3) DE GR4W (x2) //10253	CW	(JPL)
M89	10253	11-11	0127	Sat	V 6TGU (x3) DE GR4W (x2) //6169	CW	(JPL)
M89	8060	11-11	0129	Sat	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	6554	11-11	0201	Sat	CQ (x3) DE DP91 (x2) V NIL SK GB	CW	(JPL)
M89	3777	11-11	1127	Sat	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	11-11	1127	Sat	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	3777	12-11	2041	Sun	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	12-11	2041	Sun	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4067	12-11	2043	Sun	V 6TGU (x3) DE GR4W (x2) //4847	CW	(JPL)
M89	4847	12-11	2043	Sun	V 6TGU (x3) DE GR4W (x2) //4067	CW	(JPL)
M89	4125	12-11	2047	Sun	V UISD (x3) DE CBFG (x2) //5479	CW	(JPL)
M89	5479	12-11	2047	Sun	V UISD (x3) DE CBFG (x2) //4125	CW	(JPL)
M89	6169	13-11	0840	Mon	V 6TGU (x3) DE GR4W (x2) //10253	CW	(JPL)
M89	10253	13-11	0840	Mon	V 6TGU (x3) DE GR4W (x2) //6169	CW	(JPL)
M89	9131	13-11	0842	Mon	V UISD (x3) DE CBFG (x2)	CW	(JPL)
M89	6793	13-11	0843	Mon	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	8060	13-11	0843	Mon	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	3777	13-11	1209	Mon	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	13-11	1209	Mon	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4067	13-11	1211	Mon	V 6TGU (x3) DE GR4W (x2) //4847	CW	(JPL)
M89	4847	13-11	1211	Mon	V 6TGU (x3) DE GR4W (x2) //4067	CW	(JPL)

M89	4125	13-11	1212	Mon	V UISD (x3) DE CBF (x2) //5479	CW	(JPL)
M89	5479	13-11	1212	Mon	V UISD (x3) DE CBF (x2) //4125	CW	(JPL)
M89	5284	13-11	1217	Mon	i.p. SK GB VV CTE4 DE XDSS K. R 7G GA K. R 7G NR 036 CK 99 24 1113 .93. RMKS 9248 TO 9292 K R = UD5D 5T66 ...	CW	(JPL)
M89	4111	13-11	1224	Mon	i.p. T3UN 7447 TU66 7T4U ... AR K. R GA K. R GA K. R R QSL 2040 K. R SK	CW	(JPL)
M89	3777	14-11	1824	Tue	V M8JF (x3) DE RIS9 (x2) //4532 note: sending UESD vice UISD	CW	(JPL)
M89	4532	14-11	1824	Tue	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4125	14-11	1826	Tue	V UESD (x3) DE CBF (x2) //5479 note: sending UESD vice UISD	CW	(JPL)
M89	5479	14-11	1826	Tue	V UESD (x3) DE CBF (x2) //4125 note: sending UESD vice UISD	CW	(JPL)
M89	4067	14-11	1828	Tue	V 6TGU (x3) DE GR4W (x2)	CW	(JPL)
M89	6840	15-11	0920	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) (Machine sent) //10640	CW	(JPL)
M89	10640	15-11	0920	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) (Machine sent) //6840	CW	(JPL)
M89	6169	15-11	0926	Wed	V 6TGU (x3) DE GR4W (x2) //10253	CW	(JPL)
M89	6793	15-11	0926	Wed	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	8060	15-11	0926	Wed	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	10253	15-11	0926	Wed	V 6TGU (x3) DE GR4W (x2) //6169	CW	(JPL)
M89	8350	15-11	0930	Wed	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K	CW	(JPL)
M89	7545	15-11	0943	Wed	i.p. DE FSJ8 VV BSC2 BSC2 K. R QSA ? K R IEC = 1023 K	CW	(JPL)
M89	5740	15-11	0954	Wed	i.p. N5N4 T47A T6UA UD74 74UN ... III = 3344 A4D4 3D7U UDA7 ... III = 3.DA 576U 4T4U 7U5N ...	CW	(JPL)
M89	5743	15-11	0959	Wed	V UESD (x3) DE CBF (x2) Note: sending UESD vice UISD	CW	(JPL)
M89	9131	16-11	0100	Thu	V UISD (x3) DE CBF (x2)	CW	(JPL)
M89	6793	16-11	0101	Thu	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	8060	16-11	0101	Thu	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	6169	16-11	0620	Thu	V 6TGU (x3) DE GR4W (x2) //10253	CW	(JPL)
M89	10253	16-11	0620	Thu	V 6TGU (x3) DE GR4W (x2) //6169	CW	(JPL)
M89	6836	16-11	0715	Thu	i.p. R HR WRK NR 1105 K. VVV 6LWW K. R HR WK NR 1105 K. VVV 3HQA 3HQA K	CW	(JPL)
M89	5743	16-11	1244	Thu	V UISD (x3) DE CBF (x2) //9131	CW	(JPL)
M89	9131	16-11	1244	Thu	V UISD (x3) DE CBF (x2) //5743	CW	(JPL)
M89	3777	16-11	1246	Thu	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	16-11	1246	Thu	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4067	16-11	1248	Thu	V 6TGU (x3) DE GR4W (x2) //4847	CW	(JPL)
M89	4847	16-11	1248	Thu	V 6TGU (x3) DE GR4W (x2) //4067	CW	(JPL)
M89	4131	16-11	1927	Thu	V JKD (x3) DE SLBC (x2)	CW	(JPL)
M89	4125	16-11	1929	Thu	V UISD (x3) DE CBF (x2) //5479	CW	(JPL)
M89	5479	16-11	1929	Thu	V UISD (x3) DE CBF (x2) //4125	CW	(JPL)
M89	6169	17-11	1053	Fri	V 6TGU (x3) DE GR4W (x2) //10253	CW	(JPL)
M89	10253	17-11	1053	Fri	V 6TGU (x3) DE GR4W (x2) //6169	CW	(JPL)
M89	5743	17-11	1055	Fri	V UISD (x3) DE CBF (x2) //9131	CW	(JPL)
M89	9131	17-11	1055	Fri	V UISD (x3) DE CBF (x2) //5743	CW	(JPL)
M89	3777	17-11	1056	Fri	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	17-11	1056	Fri	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4115	17-11	1101	Fri	i.p. MSG GA NR 286 CK 221 02 1117 2210 RMKS 0049 TO 293. K	CW	(JPL)
M89	4125	17-11	1101	Fri	V UISD (x3) DE CBF (x2) //5479	CW	(JPL)
M89	5479	17-11	1101	Fri	V UISD (x3) DE CBF (x2) //4125	CW	(JPL)
M89	4067	17-11	1448	Fri	V 6TGU (x3) DE GR4W (x2) //4847	CW	(JPL)
M89	4847	17-11	1448	Fri	V 6TGU (x3) DE GR4W (x2) //4067	CW	(JPL)
M89	3777	18-11	1808	Sat	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	18-11	1808	Sat	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)

M89	4067	18-11	1810	Sat	V 6TGU (x3) DE GR4W (x2) //4847	CW	(JPL)
M89	4847	18-11	1810	Sat	V 6TGU (x3) DE GR4W (x2) //4067	CW	(JPL)
M89	4125	18-11	1811	Sat	V UISD (x3) DE CBFQ (x2) //5479	CW	(JPL)
M89	5479	18-11	1811	Sat	V UISD (x3) DE CBFQ (x2) //4125	CW	(JPL)
M89	4131	18-11	1813	Sat	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	6840	19-11	0120	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) (Machine sent) //10640	CW	(JPL)
M89	10640	19-11	0120	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) (Machine sent) //6840	CW	(JPL)
M89	10253	19-11	0124	Sun	V 6TGU (x3) DE GR4W (x2)	CW	(JPL)
M89	10524	19-11	0125	Sun	i.p. UNA5 7N4D 6TU3 3757 ... III 2P = = 375U 546N 6UN3 7UT5 ...	CW	(JPL)
M89	5743	19-11	0135	Sun	V UISD (x3) DE CBFQ (x2) //9131	CW	(JPL)
M89	9131	19-11	0135	Sun	V UISD (x3) DE CBFQ (x2) //5743	CW	(JPL)
M89	5780	19-11	0137	Sun	i.p. III = 64T3 ND7A 6U34 U57T 6DAN ...	CW	(JPL)
M89	6840	19-11	0720	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) (Machine sent) //10640	CW	(JPL)
M89	10640	19-11	0720	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) (Machine sent) //6840	CW	(JPL)
M89	10253	19-11	0723	Sun	V 6TGU (x3) DE GR4W (x2)	CW	(JPL)
M89	9131	19-11	0726	Sun	V UISD (x3) DE CBFQ (x2)	CW	(JPL)
M89	7620	19-11	0730	Sun	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K (Hand sent) //8350	CW	(JPL)
M89	8350	19-11	0730	Sun	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K (Hand sent) //7620	CW	(JPL)
M89	5379	19-11	0740	Sun	i.p. DT66 3NT4 UUND U7TT U37N 4A65 ... AR	CW	(JPL)
M89	5667	19-11	0744	Sun	i.p. 6744 ..73 A774 63TD 33.5 573T 55N5 ... III UU4 3T3T 6NN4 A5N7 5ANN ... = TUU4 TUU4	CW	(JPL)
M89	6169	19-11	0751	Sun	V 6TGU (x3) DE GR4W (x2) //10253	CW	(JPL)
M89	10253	19-11	0751	Sun	V 6TGU (x3) DE GR4W (x2) //6169	CW	(JPL)
M89	6793	19-11	0753	Sun	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	8060	19-11	0753	Sun	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	7332	19-11	0758	Sun	i.p. 6A5N AT45 N7.N ... AR K	CW	(JPL)
M89	7782	19-11	0803	Sun	i.p. 4N47 3474 5DAN 34T3 UA34 ... AR AR K K R RPT 66W 7405 7405 RPT 66W 7405 RPT 67W 0143 0143 K R GA K	CW	(JPL)
M89	8951	19-11	0808	Sun	i.p. N345 5TA6 6T5U U37D 644A 65AT ... AR AR K. R HR WK NR NR 312 312 K. R R SK SK GB GB	CW	(JPL)
M89	3777	19-11	1108	Sun	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	19-11	1108	Sun	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4367	19-11	1122	Sun	i.p. F NR 5404/EX CK 19 21 K. R BT Z2D8/RJ.0 AR = Z2D8/R1.0 AR K. OK R GA K. R QSL 1924 K. GB	CW	(JPL)
M89	4138	19-11	1129	Sun	i.p.	CW	(JPL)
M89	6169	20-11	0546	Mon	V 6TGU (x3) DE GR4W (x2)	CW	(JPL)
M89	11082	20-11	0550	Mon	i.p. A3UT 5ND6 47UN 5463 TAD7 6U5A ... III = A5NU 46D7 T3U6 7A3T ...	CW	(JPL)
M89	6840	20-11	0620	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) (Machine sent) //10640	CW	(JPL)
M89	10640	20-11	0620	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) (Machine sent) //6840	CW	(JPL)
M89	4860	20-11	1120	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) (Machine sent) //6840	CW	(JPL)
M89	6840	20-11	1120	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) (Machine sent) //4860	CW	(JPL)
M89	4067	20-11	1125	Mon	V 6TGU (x3) DE GR4W (x2) //4847	CW	(JPL)
M89	4847	20-11	1125	Mon	V 6TGU (x3) DE GR4W (x2) //4067	CW	(JPL)
M89	4125	20-11	1126	Mon	V UISD (x3) DE (x3) //5479	CW	(JPL)
M89	5479	20-11	1126	Mon	V UISD (x3) DE (x3) //4125	CW	(JPL)
M89	3777	20-11	1129	Mon	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	20-11	1129	Mon	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)

M89	6169	21-11	0810	Tue	V 6TGU (x3) DE GR4W (x2) //10253	CW	(JPL)
M89	10253	21-11	0810	Tue	V 6TGU (x3) DE GR4W (x2) //6169	CW	(JPL)
M89	5555	21-11	0811	Tue	i.p. A365 345A 5N6D 3574 3D4N U367 ... III	CW	(JPL)
M89	5566	21-11	0814	Tue	i.p. AN53 3N45 73DN ...	CW	(JPL)
M89	5696	21-11	0834	Tue	i.p. R MSG GA CY K GA R MSG NR 038 CK .. 05 1121 1..0 RMKS 6280 TO 6283 TO 6218 TO 6245 ...	CW	(JPL)
M89	6840	21-11	1020	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) (Machine sent) //10640	CW	(JPL)
M89	10640	21-11	1020	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) (Machine sent) //6840	CW	(JPL)
M89	3777	21-11	1022	Tue	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	21-11	1022	Tue	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	6169	21-11	1026	Tue	V 6TGU (x3) DE GR4W (x2) //10253	CW	(JPL)
M89	10253	21-11	1026	Tue	V 6TGU (x3) DE GR4W (x2) //6169	CW	(JPL)
M89	7620	21-11	1030	Tue	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K (Hand sent) //8350	CW	(JPL)
M89	8350	21-11	1030	Tue	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K (Hand sent) //7620	CW	(JPL)
M89	5682	21-11	1114	Tue	i.p. AR K R RPT NR NR 4231 16.. 50 1906 K R QSL QSL 1914 K K	CW	(JPL)
M89	6840	21-11	1120	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5)	CW	(JPL)
M89	4379	21-11	1125	Tue	i.p. NTDU 7DNU UN6A T54D 536T III = U3TD 643. U436 7AU5 ...	CW	(JPL)
M89	4193	21-11	1219	Tue	i.p. 7T4U N54T U5D6 U74D 5N7D ... AR K	CW	(JPL)
M89	4067	21-11	1956	Tue	V 6TGU (x3) DE GR4W (x2) //4847	CW	(JPL)
M89	4847	21-11	1956	Tue	V 6TGU (x3) DE GR4W (x2) //4067	CW	(JPL)
M89	4860	21-11	2020	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) (Machine sent) //6840	CW	(JPL)
M89	6840	21-11	2020	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) (Machine sent) //4860	CW	(JPL)
M89	4720	21-11	2030	Tue	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K (Hand sent) //5150	CW	(JPL)
M89	5150	21-11	2030	Tue	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K (Hand sent) //4720	CW	(JPL)
M89	5177	22-11	1127	Wed	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4131	22-11	1203	Wed	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	5177	23-11	1133	Tue	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	10253	24-11	0936	Fri	V 6TGU (x3) DE GR4W (x2)	CW	(JPL)
M89	6169	24-11	0939	Fri	V 6TGU (x3) DE GR4W (x2)	CW	(JPL)
M89	3777	24-11	0940	Fri	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	24-11	0940	Fri	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	5743	24-11	0943	Fri	V UISD (x3) DE CBFG (x2) //9131	CW	(JPL)
M89	9131	24-11	0943	Fri	V UISD (x3) DE CBFG (x2) //5743	CW	(JPL)
M89	4125	24-11	1124	Fri	V UISD (x3) DE CBFG (x2) //5479	CW	(JPL)
M89	5479	24-11	1124	Fri	V UISD (x3) DE CBFG (x2) //4125	CW	(JPL)
M89	4131	24-11	1916	Fri	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4125	24-11	1918	Fri	V UISD (x3) DE CBFG (x2) //5479	CW	(JPL)
M89	5479	24-11	1918	Fri	V UISD (x3) DE CBFG (x2) //4125	CW	(JPL)
M89	4067	24-11	1919	Fri	V 6TGU (x3) DE GR4W (x2) //4847	CW	(JPL)
M89	4847	24-11	1919	Fri	V 6TGU (x3) DE GR4W (x2) //4067	CW	(JPL)
M89	9131	27-11	0718	Mon	V UISD (x3) DE CBFG (x2)	CW	(JPL)
M89	6793	27-11	0719	Mon	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	8060	27-11	0719	Mon	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	10253	27-11	0719	Mon	V 6TGU (x3) DE GR4W (x2)	CW	(JPL)
M89	6840	27-11	0720	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) (Machine sent) //10640	CW	(JPL)
M89	10640	27-11	0720	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) (Machine sent) //6840	CW	(JPL)
M89	10312	27-11	0725	Mon	i.p. KJA5 DE M3FA V R DE 8L QSA 2 K. N QSA 2 K. AS VV GKU8 K. V UHIU K	CW	(JPL)

M89	3777	27-11	1557	Mon	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	27-11	1557	Mon	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4067	27-11	1558	Mon	V 6TGU (x3) DE GR4W (x2) //4847	CW	(JPL)
M89	4847	27-11	1558	Mon	V 6TGU (x3) DE GR4W (x2) //4067	CW	(JPL)
M89	4125	27-11	1559	Mon	V UISD (x3) DE CBFG (x2)	CW	(JPL)
M89	6840	28-11	0620	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) (Machine sent) //10640	CW	(JPL)
M89	10640	28-11	0620	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) (Machine sent) //6840	CW	(JPL)
M89	10253	28-11	0625	Tue	V 6TGU (x3) DE GR4W (x2)	CW	(JPL)
M89	9131	28-11	0635	Tue	V VDFE (x3) DE LIUM (x2)	CW	(JPL)
M89	6793	28-11	0643	Tue	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	8060	28-11	0643	Tue	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	7960	28-11	0647	Tue	i.p. 437A 3D4T 473T 7N5U U47A ... AR K. OK GA OK OK QSL QSL 145. K SK SK	CW	(JPL)
M89	3777	28-11	1302	Tue	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	28-11	1302	Tue	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4067	28-11	1304	Tue	V 6TGU (x3) DE GR4W (x2) //4847	CW	(JPL)
M89	4847	28-11	1304	Tue	V 6TGU (x3) DE GR4W (x2) //4067	CW	(JPL)
M89	4125	28-11	1305	Tue	V VDFE (x3) DE LIUM (x2) //5479	CW	(JPL)
M89	5479	28-11	1305	Tue	V VDFE (x3) DE LIUM (x2) //4125	CW	(JPL)
M89	4432	28-11	1307	Tue	i.p. N47T A665 5DN7 A4DU ... AR K. R RPT K. R RPT 07 MD.00W BT ED7TA U7U634 N47T ND7T .3U7U ...	CW	(JPL)
M89	10547	29-11	0846	Wed	i.p. AGN VV GKJS DE GMJS K. VV GKJH DE GMJS R VV J8MX DE GMJS K. V40RW DE GMJS K. VV DPU6 DE GMJS K	CW	(JPL)
M89	5743	29-11	0912	Wed	V VDFE (x3) DE LIUM (x2) //9131	CW	(JPL)
M89	9131	29-11	0912	Wed	V VDFE (x3) DE LIUM (x2) //5743	CW	(JPL)
M89	3777	29-11	0915	Wed	V M8JF (x3) DE RIS9 (x2) //8060 and 6793 and 4532	CW	(JPL)
M89	4532	29-11	0915	Wed	V M8JF (x3) DE RIS9 (x2) //8060 and 6793 and 3777	CW	(JPL)
M89	6793	29-11	0915	Wed	V M8JF (x3) DE RIS9 (x2) //8060 and 4532 and 3777	CW	(JPL)
M89	8060	29-11	0915	Wed	V M8JF (x3) DE RIS9 (x2) //6793 and 4532 and 3777	CW	(JPL)
M89	6169	29-11	0919	Wed	V 6TGU (x3) DE GR4W (x2)	CW	(JPL)
M89	5798	29-11	0920	Wed	i.p. N54D T7U6 ...	CW	(JPL)
M89	6840	29-11	0920	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) (Machine sent) //10640	CW	(JPL)
M89	10640	29-11	0920	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5)//6840	CW	(JPL)
M89	7620	29-11	0930	Wed	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K (Hand sent) //8350	CW	(JPL)
M89	8350	29-11	0930	Wed	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K (Hand sent) //7620	CW	(JPL)
M89	4131	29-11	1315	Wed	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4125	29-11	1319	Wed	V UISD (x3) DE CBFG (x2) //5479	CW	(JPL)
M89	5479	29-11	1319	Wed	V UISD (x3) DE CBFG (x2) //4125	CW	(JPL)
M89	4620	29-11	1320	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) (Machine sent) //6840 and 4860	CW	(JPL)
M89	4860	29-11	1320	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) (Machine sent) //6840 and 4620	CW	(JPL)
M89	6840	29-11	1320	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) (Machine sent) //4860 and 4620	CW	(JPL)
M89	6169	30-11	0922	Thu	V 6TGU (x3) DE GR4W (x2) //10253. Although // 10253 is sending faster than 6169 station.	CW	(JPL)
M89	10253	30-11	0922	Thu	V 6TGU (x3) DE GR4W (x2) //6169. Although // is 10253 sending faster than 6169 station.	CW	(JPL)
M89	3777	30-11	0925	Thu	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	30-11	0925	Thu	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	5743	30-11	0927	Thu	V UISD (x3) DE CBFG (x2) //9131	CW	(JPL)
M89	9131	30-11	0927	Thu	V UISD (x3) DE CBFG (x2) //5743	CW	(JPL)
M89	4067	30-11	1919	Thu	V 6TGU (x3) DE GR4W (x2) //4847. Although // 4847	CW	(JPL)

					is sending faster than 4067 station.		
M89	4847	30-11	1919	Thu	V 6TGU (x3) DE GR4W (x2) //4067. Although // 4847 is sending faster than 4067 station.	CW	(JPL)
M89	4125	30-11	1922	Thu	V UIDS (x3) DE CDFG (x2) //5479	CW	(JPL)
M89	5479	30-11	1922	Thu	V UIDS (x3) DE CDFG (x2) //4125	CW	(JPL)
M95	5801	1-11	1113	Wed	V DKG6 DE 3A7D MSG GA NR ..04/CCK CK 199 21 1101 1910 RMKS //10180 kHz	CW	(JPL-Sib)
M95	10180	1-11	1113	Wed	V DKG6 DE 3A7D MSG GA NR ..04/CCK CK 199 21 1101 1910 RMKS //5801 kHz	CW	(JPL-Sib)
M95	5801	3-11	1123	Fri	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M95	3642	3-11	1714	Fri	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M95	3642	3-11	2128	Fri	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M95	5801	3-11	2128	Fri	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M95	5801	4-11	0925	Sat	V DKG6 (x3) DE 3A7D (x2) //10180 kHz	CW	(JPL-Sib)
M95	5801	4-11	0925	Sat	i.p. 3A7D i.p. NR 019 1730 RMKS 354 TO 6804 BT COMM/1800/XZ479/90/6357/6804 AR QSL? //10180 kHz	CW	(JPL-Sib)
M95	10180	4-11	0925	Sat	i.p. 3A7D i.p. NR 019 1730 RMKS 354 TO 6804 BT COMM/1800/XZ479/90/6357/6804 AR QSL? //5801 kHz	CW	(JPL-Sib)
M95	3642	4-11	1953	Sat	V DKG6 (x3) DE 3A7D (x2) //7602 kHz	CW	(JPL-Sib)
M95	7602	4-11	1953	Sat	V DKG6 (x3) DE 3A7D (x2) //3642 kHz	CW	(JPL-Sib)
M95	3642	5-11	0133	Sun	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M95	7602	5-11	0133	Sun	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M95	5801	5-11	0938	Sun	VV HR MSG GA NR 021/CCK 99 19 1105 1810 RMKS 6354 TO 6385 6541 6574 6578 6671 = //10180 kHz	CW	(JPL-Sib)
M95	5801	5-11	0938	Sun	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M95	10180	5-11	0938	Sun	VV HR MSG GA NR 021/CCK 99 19 1105 1810 RMKS 6354 TO 6385 6541 6574 6578 6671 = //5801 kHz	CW	(JPL-Sib)
M95	5801	5-11	1112	Sun	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M95	3642	5-11	1608	Sun	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M95	3642	5-11	1735	Sun	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M95	3642	5-11	2217	Sun	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M95	7602	5-11	2217	Sun	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M95	5801	6-11	0808	Mon	V DKG6 DE 3A7D (x2) VV HR SVC GA NR 1251 0530 RMKS 6354 TO 8979 = CL/1700/ZBT/A474/8979 AR //10180	CW	(JPL)
M95	10180	6-11	0808	Mon	V DKG6 DE 3A7D (x2) VV HR SVC GA NR 1251 0530 RMKS 6354 TO 8979 = CL/1700/ZBT/A474/8979 AR //5801	CW	(JPL)
M95	3642	6-11	1957	Mon	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M95	7602	6-11	1957	Mon	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M95	3642	7-11	0028	Tue	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M95	7602	7-11	0030	Tue	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M95	5801	7-11	0931	Tue	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M95	10180	7-11	0931	Tue	VV HR SVC GA NR 034 1800 RMKS 6354 TO 6897/6564 = //5801	CW	(JPL)
M95	5801	7-11	1206	Tue	V DKG6 DE 3A7D VV HR SVC GA NR 027 2100 RMKS 6354 TO 6501 / 6524 BT CL/2130/ZBT/6354/6501 AR	CW	(JPL)
M95	3642	7-11	1413	Tue	V DKG6 DE 3A7D VV HR MSG GA NR 028/CCK CK 91 62 11072200 RMKS 6354 TO 6570 =	CW	(JPL)
M95	3642	7-11	1610	Tue	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M95	7602	7-11	1610	Tue	V DKG6 DE 3A7D VV HR SVC GA NR 152 0030 RMKS 6354 TO 6778 BT CL/0100/ZBT/A474/6878 AR //3642	CW	(JPL)
M95	3642	7-11	1756	Tue	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M95	7602	7-11	1756	Tue	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M95	5801	8-11	0757	Wed	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M95	10180	8-11	0757	Wed	3A7D i.p. COMM/1630/XZ479/90/6357/8.11 AR //5801	CW	(JPL)

M95	10180	9-11	0718	Thu	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M95	3642	9-11	1355	Thu	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M95	5801	10-11	0616	Fri	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M95	5801	10-11	1013	Fri	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M95	10180	10-11	1013	Fri	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M95	3642	10-11	1622	Fri	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M95	7602	10-11	1622	Fri	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M95	5801	11-11	1057	Sat	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M95	10180	11-11	1057	Sat	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M95	3642	12-11	2039	Sun	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M95	7602	12-11	2044	Sun	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M95	10180	13-11	0836	Mon	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M95	10999	13-11	0848	Mon	i.p. IEC = W3 AR K. R IEC = YE AR K (see N&O 242)	CW	(JPL)
M95	5801	13-11	1157	Mon	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M95	3642	13-11	1633	Mon	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M95	3642	14-11	1821	Tue	V DKG6 (x3) DE 3A7D	CW	(JPL)
M95	3642	16-11	0047	Thu	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M95	9153	16-11	0050	Thu	i.p. 4A7 N3D 4T7 445 N3D ... II AA 773 354 37. 4A7 N3. ... ZNN SK	CW	(JPL)
M95	7602	16-11	0058	Thu	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M95	5801	16-11	0611	Thu	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M95	10180	16-11	0611	Thu	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M95	5801	16-11	1127	Thu	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M95	4364	16-11	1133	Thu	V BNGC (x3) DE XSV85 HR MSGS GA PSE CY NR 1080 CK 409 35 1116 1615 = TA6 3U6 3AN 3U7 TAU ... //8073 kHz	CW	(JPL)
M95	8073	16-11	1133	Thu	V BNGC (x3) DE XSV85 HR MSGS GA PSE CY NR 1080 CK 409 35 1116 1615 = TA6 3U6 3AN 3U7 TAU ... //4364 kHz	CW	(JPL)
M95	4243	16-11	1148	Thu	i.p. HR MSG TO YR PSE CY NR 066 CK 34 35 1116 1515 = 5TD UTT TA6 3U6 7TA ...	CW	(JPL)
M95	3642	16-11	1922	Thu	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M95	7602	16-11	1922	Thu	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M95	5801	17-11	1044	Fri	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M95	10180	17-11	1044	Fri	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M95	3642	17-11	1855	Fri	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M95	3642	18-11	1807	Sat	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M95	4789	19-11	0139	Sun	i.p. R HR MSG NR 121/CCK CK 200 85 1119 0937 RMKS 5426 TO 2190 K	CW	(JPL)
M95	5801	19-11	0820	Sun	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M95	10180	19-11	0820	Sun	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M95	5801	19-11	1111	Sun	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M95	4243	19-11	1147	Sun	HR VV HR MSG TO YR PSE CY NR 076 CK 31 35 1121 1500 = 5TD UTT TUA 3U6 7TA N44 3A4 353 N3D 354 ...	CW	(JPL)
M95	4364	19-11	1156	Sun	(XSV85 i.p. AR A HR MSG GA NR 1103 CK 34 35 1119 1554 = = TAA N5U TAN N53 TAD N54 7TT TT6 746 7T5 ... //8073	CW	(JPL)
M95	8073	19-11	1156	Sun	(XSV85 i.p. AR A HR MSG GA NR 1103 CK 34 35 1119 1554 = = TAA N5U TAN N53 TAD N54 7TT TT6 746 7T5 ... //4364	CW	(JPL)
M95	4243	19-11	1204	Sun	i.p. 446 NAD 33N N3U 447 ... AR 7G AGN NR 38 CK 159 35 1119 1600 = //9054	CW	(JPL)
M95	9054	19-11	1204	Sun	i.p. 446 NAD 33N N3U 447 ... AR 7G AGN NR 38 CK 159 35 1119 1600 = //4243	CW	(JPL)
M95	3642	19-11	2152	Sun	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M95	7602	19-11	2152	Sun	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M95	5801	20-11	0538	Mon	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M95	4364	20-11	1140	Mon	V BNGC (x3) DE XSV85 (x2) HR MSGS GA PSE CY NR 1108 CK 324 35 1120 1602 = TUT 3U6 3AN 3U7 TAU	CW	(JPL)

					773 ... //8073		
M95	8073	20-11	1140	Mon	V BNGC (x3) DE XSV85 (x2) HR MSGS GA PSE CY NR 1108 CK 324 35 1120 1602 = TUT 3U6 3AN 3U7 TAU 773 ... //4364	CW	(JPL)
M95	4243	20-11	1151	Mon	HR 7G TO YR PSE CY NR 074 CK 19 35 1120 1528 = 5TD UTT TUT 3U6 3A4 ... //9054	CW	(JPL)
M95	9054	20-11	1151	Mon	HR 7G TO YR PSE CY NR 074 CK 19 35 1120 1528 = 5TD UTT TUT 3U6 3A4 ... //4243	CW	(JPL)
M95	3642	20-11	1836	Mon	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M95	5801	21-11	0802	Tue	V DKG6 (x3) DE 3A7D (x2) VV W VV HR SVC GA NR 103 1600 RMKS 05354 TO 60572 = COMM/1630/MI 479/92/05357/60572 AR QSL ? HR WK NR 22 //10180	CW	(JPL)
M95	5801	21-11	0802	Tue	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M95	10180	21-11	0802	Tue	V DKG6 (x3) DE 3A7D (x2) VV W VV HR SVC GA NR 103 1600 RMKS 05354 TO 60572 = COMM/1630/MI 479/92/05357/60572 AR QSL ? HR WK NR 22 //5801	CW	(JPL)
M95	4364	21-11	1141	Tue	V BNGC (x3) DE XSV85 (x2) //8073	CW	(JPL)
M95	8073	21-11	1141	Tue	V BNGC (x3) DE XSV85 (x2) //4364	CW	(JPL)
M95	3642	21-11	1948	Tue	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M95	3642	21-11	1953	Tue	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M95	7602	21-11	1953	Tue	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M95	5801	22-11	1122	Wed	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M95	10180	22-11	1122	Wed	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M95	5801	23-11	1130	Tue	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M95	10180	23-11	1130	Tue	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M95	5801	24-11	0932	Fri	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M95	10180	24-11	0932	Fri	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M95	10180	24-11	1001	Fri	V DKG6 DE 3A7D VV HR SVC GA NR 119 1800 RMKS 05354 TO 055053 = COMM/1830/1830/OUZ/1200/90/053 570/65053 AR QSL ? HR WK NR 220	CW	(JPL)
M95	4364	24-11	1141	Fri	V BNGC (x3) DE XSV85 HR MSGS GA PSE CY NR 1124 CK 277 35 1124 1543 = TU4 3U6 3A. 3U7 TAU ... //8073	CW	(JPL)
M95	8073	24-11	1141	Fri	V BNGC (x3) DE XSV85 HR MSGS GA PSE CY NR 1124 CK 277 35 1124 1543 = TU4 3U6 3A. 3U7 TAU ... //4364	CW	(JPL)
M95	4243	24-11	1146	Fri	A HR MSG TO YR PSE CY NR 082 CK 22 35 1124 1440 = 5TD UTT TU4 3U6 7TA ... //9054	CW	(JPL)
M95	9054	24-11	1146	Fri	A HR MSG TO YR PSE CY NR 082 CK 22 35 1124 1440 = 5TD UTT TU4 3U6 7TA ... //4243	CW	(JPL)
M95	3642	24-11	1914	Fri	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M95	10180	27-11	0716	Mon	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M95	3642	27-11	1555	Mon	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M95	10180	28-11	0619	Tue	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M95	3642	28-11	1258	Tue	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M95	7602	28-11	1258	Tue	V DKG6 DE 3A7D HR SVC GA NR 11.. 00 RMKS 6354 TO 6635/6604 = CL/2130/ZBT/6354/6635 AR QSL ? HR WK NR 33 //3642	CW	(JPL)
M95	5544	28-11	1325	Tue	i.p. 445 3DA TTU TT3 773 447 D6D 3D4 4D6 AR	CW	(JPL)
M95	5801	29-11	0843	Wed	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M95	10180	29-11	0843	Wed	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M95	3642	29-11	1310	Wed	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M95	5801	30-11	0905	Thu	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M95	10180	30-11	0905	Thu	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M95	3642	30-11	1917	Thu	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
MX	3658	1-11	2139	Wed	Beacon V	CW	(AB)
MX	7509.1	3-11	1958	Fri	Beacon A, Astrakhan	CW	(AB)
MX	13527.7	6-11	0724	Mon	Beacon D, Sevastopol	CW	(AB)

MX	13528	6-11	0724	Mon	Beacon C, Moscow	CW	(AB)
MX	13528.1	6-11	0724	Mon	Beacon A, Astrakhan	CW	(AB)
MX	20047.7	6-11	0726	Mon	Beacon D, Sevastopol	CW	(AB)
MX	16332	6-11	0727	Mon	Beacon C, Moscow	CW	(AB)
MX	16332.1	6-11	0727	Mon	Beacon A, Astrakhan	CW	(AB)
MX	20048	6-11	0727	Mon	Beacon C, Moscow	CW	(AB)
MX	10871.7	6-11	0728	Mon	Beacon D, Sevastopol	CW	(AB)
MX	10871.9	6-11	0728	Mon	Beacon S, Sevoromorsk	CW	(AB)
MX	10872.1	6-11	0728	Mon	Beacon A, Astrakhan	CW	(AB)
MX	8494.7	6-11	0729	Mon	Beacon D, Sevastopol	CW	(AB)
MX	8495	6-11	0729	Mon	Beacon C, Moscow	CW	(AB)
MX	8495.1	6-11	0729	Mon	Beacon A, Astrakhan	CW	(AB)
MX	8497.8	6-11	0729	Mon	Beacon L, St Petersburg	CW	(AB)
MX	5156.8	6-11	0731	Mon	Beacon L, St Petersburg	CW	(AB)
MX	7508.9	6-11	0732	Mon	Beacon S, Sevoromorsk	CW	(AB)
MX	13528.4	6-11	0737	Mon	Beacon M, Magadan	CW	(AB-KOR)
MX	5154.2	6-11	0738	Mon	Beacon F, Vladivostok	CW	(AB-KOR)
MX	8495.2	13-11	0606	Mon	Beacon F	CW	(AB-J)
MX	8495.4	13-11	0606	Mon	Beacon M	CW	(AB-J)
MX	7039.4	13-11	0608	Mon	Beacon M	CW	(AB-J)
MX	5154.2	21-11	1400	Tue	Beacon F	CW	(AB-J)
MX	5154.4	21-11	1400	Tue	Beacon M	CW	(AB-J)
MX	16331.7	26-11	1255	Sun	Beacon D, Sevastopol	CW	(BvR)
MX	16332	26-11	1300	Sun	Beacon C, Moscow	CW	(BvR)
MX	16331.9	26-11	1307	Sun	Beacon S, Sevoromorsk	CW	(BvR)
MX	16331.7	29-11	1006	Wed	Beacon D, Sevastopol	CW	(AB)
MX	17331.9	29-11	1006	Wed	Beacon S, Sevoromorsk	CW	(AB)
MX	17332	29-11	1006	Wed	Beacon C, Moscow	CW	(AB)
MX	17332.1	29-11	1006	Wed	Beacon A, Astrakhan	CW	(AB)
MX	13528	29-11	1007	Wed	Beacon C, Moscow	CW	(AB)
MX	13528.1	29-11	1007	Wed	Beacon A, Astrakhan	CW	(AB)
MX	4558.1	30-11	1814	Thu	Beacon A, Astrakhan	CW	(AB)
MX	5153.7	30-11	1814	Thu	Beacon D, Sevastopol	CW	(AB)
MX	5154	30-11	1814	Thu	Beacon C, Moscow	CW	(AB)
MX	5154.1	30-11	1814	Thu	Beacon A, Astrakhan	CW	(AB)
MX	7509.1	30-11	1814	Thu	Beacon A, Astrakhan	CW	(AB)
MX	7509.1	30-11	2119	Thu	Beacon A, Astrakhan	CW	(Phi)
POL	10800	1-11	1120	Wed	Polish Intel.	QPSK-63	(AB)
POL	10800	1-11	1125	Wed	Polish Intel.	QPSK-63	(AB)
POL	10487	1-11	1225	Wed	Polish Intel.	BPSK-63	(AB)
POL	10487	1-11	1230	Wed	Polish Intel.	BPSK-63	(AB)
POL	6986	1-11	1435	Wed	Polish Intel.	BPSK-63	(AB)
POL	6986	1-11	1440	Wed	Polish Intel.	BPSK-63	(AB)
POL	13873	1-11	1500	Wed	Polish Intel.	BPSK-63	(AB)
POL	13873	1-11	1505	Wed	Polish Intel.	BPSK-63	(AB)
POL	4840	1-11	2035	Wed	Polish Intel.	QPSK-63	(AB)
POL	4840	1-11	2040	Wed	Polish Intel.	QPSK-63	(AB)
POL	8680	3-11	1500	Fri	Polish Intel.	BPSK-63	(AB)
POL	8680	3-11	1505	Fri	Polish Intel.	BPSK-63	(AB)
POL	4840	3-11	2035	Fri	Polish Intel.	QPSK-63	(AB)
POL	4840	3-11	2040	Fri	Polish Intel.	QPSK-63	(AB)
POL	10487	4-11	1225	Sat	Polish Intel.	BPSK-63	(AB)
POL	10487	4-11	1230	Sat	Polish Intel.	BPSK-63	(AB)
POL	6986	4-11	1435	Sat	Polish Intel.	BPSK-63	(AB)
POL	6986	4-11	1440	Sat	Polish Intel.	BPSK-63	(AB)
POL	13873	4-11	1500	Sat	Polish Intel.	BPSK-63	(AB)
POL	13873	4-11	1505	Sat	Polish Intel.	BPSK-63	(AB)
POL	10800	5-11	1120	Sun	Polish Intel.	QPSK-63	(AB)
POL	10800	5-11	1125	Sun	Polish Intel.	QPSK-63	(AB)
POL	13470	5-11	1410	Sun	Polish Intel.	BPSK-63	(AB)

POL	13470	5-11	1415	Sun	Polish Intel.	BPSK-63	(AB)
POL	16112	5-11	1440	Sun	Polish Intel.	BPSK-63	(AB)
POL	16112	5-11	1445	Sun	Polish Intel.	BPSK-63	(AB)
POL	8680	5-11	1500	Sun	Polish Intel.	BPSK-63	(AB)
POL	8680	5-11	1505	Sun	Polish Intel.	BPSK-63	(AB)
POL	13470	6-11	1410	Mon	Polish Intel.	BPSK-63	(AB)
POL	13470	6-11	1415	Mon	Polish Intel.	BPSK-63	(AB)
POL	10800	8-11	1120	Wed	Polish Intel.	QPSK-63	(AB)
POL	10800	8-11	1125	Wed	Polish Intel.	QPSK-63	(AB)
POL	10487	8-11	1225	Wed	Polish Intel.	BPSK-63	(AB)
POL	10487	8-11	1230	Wed	Polish Intel.	BPSK-63	(AB)
POL	6986	8-11	1435	Wed	Polish Intel.	BPSK-63	(AB)
POL	6986	8-11	1440	Wed	Polish Intel.	BPSK-63	(AB)
POL	13873	8-11	1500	Wed	Polish Intel.	BPSK-63	(AB)
POL	13873	8-11	1505	Wed	Polish Intel.	BPSK-63	(AB)
POL	4840	8-11	2035	Wed	Polish Intel.	QPSK-63	(AB)
POL	4840	8-11	2040	Wed	Polish Intel.	QPSK-63	(AB)
POL	16112	10-11	1440	Fri	Polish Intel.	BPSK-63	(AB)
POL	16112	10-11	1445	Fri	Polish Intel.	BPSK-63	(AB)
POL	8680	10-11	1500	Fri	Polish Intel.	BPSK-63	(AB)
POL	8680	10-11	1505	Fri	Polish Intel.	BPSK-63	(AB)
POL	4840	10-11	2035	Fri	Polish Intel.	QPSK-63	(AB)
POL	4840	10-11	2040	Fri	Polish Intel.	QPSK-63	(AB)
POL	10487	11-11	1225	Sat	Polish Intel.	BPSK-63	(AB)
POL	10487	11-11	1230	Sat	Polish Intel.	BPSK-63	(AB)
POL	6986	11-11	1435	Sat	Polish Intel.	BPSK-63	(AB)
POL	6986	11-11	1440	Sat	Polish Intel.	BPSK-63	(AB)
POL	10800	12-11	1120	Sun	Polish Intel.	QPSK-63	(AB)
POL	10800	12-11	1125	Sun	Polish Intel.	QPSK-63	(AB)
POL	13470	12-11	1410	Sun	Polish Intel.	BPSK-63	(AB)
POL	13470	12-11	1415	Sun	Polish Intel.	BPSK-63	(AB)
POL	16112	12-11	1440	Sun	Polish Intel.	BPSK-63	(AB)
POL	16112	12-11	1445	Sun	Polish Intel.	BPSK-63	(AB)
POL	8680	12-11	1500	Sun	Polish Intel.	BPSK-63	(AB)
POL	8680	12-11	1505	Sun	Polish Intel.	BPSK-63	(AB)
POL	13470	13-11	1410	Mon	Polish Intel.	BPSK-63	(AB)
POL	13470	13-11	1415	Mon	Polish Intel.	BPSK-63	(AB)
POL	10800	15-11	1120	Wed	Polish Intel.	QPSK-63	(AB)
POL	10800	15-11	1125	Wed	Polish Intel.	QPSK-63	(AB)
POL	10487	15-11	1225	Wed	Polish Intel.	BPSK-63	(AB)
POL	10487	15-11	1230	Wed	Polish Intel.	BPSK-63	(AB)
POL	6986	15-11	1435	Wed	Polish Intel.	BPSK-63	(AB)
POL	6986	15-11	1440	Wed	Polish Intel.	BPSK-63	(AB)
POL	13873	15-11	1500	Wed	Polish Intel.	BPSK-63	(AB)
POL	13873	15-11	1505	Wed	Polish Intel.	BPSK-63	(AB)
POL	4840	15-11	2035	Wed	Polish Intel.	QPSK-63	(AB)
POL	4840	15-11	2040	Wed	Polish Intel.	QPSK-63	(AB)
POL	16112	17-11	1440	Fri	Polish Intel.	BPSK-63	(AB)
POL	16112	17-11	1445	Fri	Polish Intel.	BPSK-63	(AB)
POL	8680	17-11	1500	Fri	Polish Intel.	BPSK-63	(AB)
POL	8680	17-11	1505	Fri	Polish Intel.	BPSK-63	(AB)
POL	4840	17-11	2035	Fri	Polish Intel.	QPSK-63	(AB)
POL	4840	17-11	2040	Fri	Polish Intel.	QPSK-63	(AB)
POL	10487	18-11	1225	Sat	Polish Intel.	BPSK-63	(AB)
POL	10487	18-11	1230	Sat	Polish Intel.	BPSK-63	(AB)
POL	6986	18-11	1435	Sat	Polish Intel.	BPSK-63	(AB)
POL	6986	18-11	1440	Sat	Polish Intel.	BPSK-63	(AB)
POL	13873	18-11	1500	Sat	Polish Intel.	BPSK-63	(AB)
POL	13873	18-11	1505	Sat	Polish Intel.	BPSK-63	(AB)
POL	10800	19-11	1120	Sun	Polish Intel.	QPSK-63	(AB)

POL	10800	19-11	1125	Sun	Polish Intel.	QPSK-63	(AB)
POL	16112	19-11	1440	Sun	Polish Intel.	BPSK-63	(AB)
POL	16112	19-11	1445	Sun	Polish Intel.	BPSK-63	(AB)
POL	8680	19-11	1500	Sun	Polish Intel.	BPSK-63	(AB)
POL	8680	19-11	1505	Sun	Polish Intel.	BPSK-63	(AB)
POL	13470	20-11	1410	Mon	Polish Intel.	BPSK-63	(AB)
POL	13470	20-11	1415	Mon	Polish Intel.	BPSK-63	(AB)
POL	10800	22-11	1120	Wed	Polish Intel.	QPSK-63	(AB)
POL	10800	22-11	1125	Wed	Polish Intel.	QPSK-63	(AB)
POL	10487	22-11	1225	Wed	Polish Intel.	BPSK-63	(AB)
POL	10487	22-11	1230	Wed	Polish Intel.	BPSK-63	(AB)
POL	6986	22-11	1435	Wed	Polish Intel.	BPSK-63	(AB)
POL	6986	22-11	1440	Wed	Polish Intel.	BPSK-63	(AB)
POL	13873	22-11	1500	Wed	Polish Intel.	BPSK-63	(AB)
POL	13873	22-11	1505	Wed	Polish Intel.	BPSK-63	(AB)
POL	4840	22-11	2035	Wed	Polish Intel.	QPSK-63	(AB)
POL	4840	22-11	2040	Wed	Polish Intel.	QPSK-63	(AB)
POL	16112	24-11	1440	Fri	Polish Intel.	BPSK-63	(AB)
POL	16112	24-11	1445	Fri	Polish Intel.	BPSK-63	(AB)
POL	8680	24-11	1500	Fri	Polish Intel.	BPSK-63	(AB)
POL	8680	24-11	1505	Fri	Polish Intel.	BPSK-63	(AB)
POL	4840	24-11	2035	Fri	Polish Intel.	QPSK-63	(AB)
POL	4840	24-11	2040	Fri	Polish Intel.	QPSK-63	(AB)
POL	10487	25-11	1225	Sat	Polish Intel.	BPSK-63	(AB)
POL	10487	25-11	1230	Sat	Polish Intel.	BPSK-63	(AB)
POL	6986	25-11	1435	Sat	Polish Intel.	BPSK-63	(AB)
POL	6986	25-11	1440	Sat	Polish Intel.	BPSK-63	(AB)
POL	13873	25-11	1500	Sat	Polish Intel.	BPSK-63	(AB)
POL	13873	25-11	1505	Sat	Polish Intel.	BPSK-63	(AB)
POL	16112	26-11	1440	Sun	Polish Intel.	BPSK-63	(AB)
POL	16112	26-11	1445	Sun	Polish Intel.	BPSK-63	(AB)
POL	10800	29-11	1120	Wed	Polish Intel.	QPSK-63	(AB)
POL	10800	29-11	1125	Wed	Polish Intel.	QPSK-63	(AB)
POL	10487	29-11	1225	Wed	Polish Intel.	BPSK-63	(AB)
POL	10487	29-11	1230	Wed	Polish Intel.	BPSK-63	(AB)
POL	13873	29-11	1500	Wed	Polish Intel.	BPSK-63	(AB)
POL	13873	29-11	1505	Wed	Polish Intel.	BPSK-63	(AB)
POL	4840	29-11	2035	Wed	Polish Intel.	QPSK-63	(AB)
POL	4840	29-11	2040	Wed	Polish Intel.	QPSK-63	(AB)
Q26	8295	4-11	1037	Sat	i.p. YXYXYX HR MSG I QQPR QIER 6429---2055 6678 7360 6439 3714 9068 0182 ...	4+4 QPSK 75/3000 LSB	(EW)
Q26	4243	19-11	1145	Sun	Messages	4+4 QPSK 75/3000 LSB	(JPL)
Q26	4364	20-11	1131	Mon	Messages //8073	4+4 QPSK 75/3000 LSB	(JPL)
Q26	8073	20-11	1131	Mon	Messages //4364	4+4 QPSK 75/3000 LSB	(JPL)
Q26	4243	20-11	1144	Mon	Messages //9054	4+4 QPSK 75/3000 LSB	(JPL)
Q26	9054	20-11	1144	Mon	Messages //4243	4+4 QPSK 75/3000 LSB	(JPL)
Q26	4364	21-11	1132	Tue	Messages //8073 (JPL)	4+4 QPSK 75/3000 LSB	(JPL)
Q26	8073	21-11	1132	Tue	Messages //4364	4+4 QPSK 75/3000 LSB	(JPL)
Q26	4364	24-11	1130	Fri	Messages //8073	4+4 QPSK 75/3000 LSB	(JPL)
Q26	8073	24-11	1130	Fri	Messages //4364	4+4 QPSK 75/3000 LSB	(JPL)
Q26	4243	24-11	1145	Fri	Messages //9054	4+4 QPSK	(JPL)

							75/3000 LSB	
Q26	9054	24-11	1145	Fri	Messages //4232		4+4 QPSK	(JPL)
							75/3000 LSB	
Q26	13119	25-11	2250	Sat	MNIR MNIR MNIR DE SKYG SKYG SKYG QSA? /// MXYXYXYXYXY HR MSG TO U PSE CY 0509 69 18 1126 1816 4637---3755 6678 7360 6439 3714 9068 ...		4+4 QPSK	(EW)
							75/3000 LSB	
RAv	18030	25-11	0903	Sat	Korsar: Russian Air Force wkg Davlenie		USB	(RL)
RMv	6824	12-11	0535	Sun	Russian military net. Many radio checks		USB	(AB)
S06	19875	2-11	0830	Thu	842 596 47 15614		USB	(HFD)
S06	16067	2-11	0930	Thu	842 //19875		USB	(HFD)
S06	19875	2-11	0930	Thu	842 //16067		USB	(HFD)
S06	7607	3-11	2000	Fri	514 514 514 0000		USB	(AB/MPJ/HFD)
)
S06	5412	3-11	2100	Fri	514 514 514 0000		USB	(AB/HFD)
S06	4012	4-11	2000	Sat	913 913 913 00000		USB	(AB/HFD)
S06	3398	4-11	2100	Sat	913 913 913 00000		USB	(AB/HFD)
S06	13397	7-11	1500	Tue	387 945 61 11280 65427 80071 ... 96503 00854 24580 945 61 00000		USB	(AB/HFD/w.o bi)
S06	9194	7-11	1600	Tue	387 945 61 11280 65427 80071 ... 96503 00854 24580 945 61 00000		USB	(AB/HFD)
S06	13397	8-11	1500	Wed	387 945 61 11280 65427 80071 ... 96503 00854 24580 945 61 00000		USB	(AB/HFD)
S06	9194	8-11	1600	Wed	387 945 61 11280 65427 80071 ... 96503 00854 24580 945 61 00000		USB	(AB/ES)
S06	19875	16-11	0830	Thu	842 356 49 75311 09897 37060 ... 30987 83452 56949 356 49 00000		USB	(AB-CHN)
S06	16067	16-11	0930	Thu	842 356 49 75311 09897 37060 ... 30987 83452 56949 356 49 00000		USB	(AB-Sib)
S06	19875	17-11	0830	Fri	842 356 49 75311 09897 37060 ... 30987 83452 56949 356 49 00000		USB	(AB-HK)
S06	16067	17-11	0930	Fri	842 356 49 75311 09897 37060 ... 30987 83452 56949 356 49 00000		USB	(AB-HK)
S06	7607	17-11	2000	Fri	514 514 514 00000		USB	(AB/MPJ)
S06	5412	17-11	2100	Fri	514 514 514 00000		USB	(AB)
S06	4012	18-11	2000	Sat	913 913 913 00000		USB	(AB)
S06	3398	18-11	2100	Sat	913 913 913 00000		USB	(AB)
S06	15721	20-11	0400	Mon	480 362 50 68538		USB	(HFD-KOR)
S06s	8417	1-11	0820	Wed	471 580 6 37142 32842 30003 98328 33055 31123 580 6 00000		USB	(AB/HFD)
S06s	7062	1-11	0830	Wed	464 821 5 36343 33365 97541 84517 48694 821 5 00000		USB	(AB/HFD)
S06s	9262	1-11	0830	Wed	471 580 6 37142 32842 30003 98328 33055 31123 580 6 00000		USB	(AB/HFD)
S06s	11535	1-11	0830	Wed	745 283 6 44008 38453 38324 33885 31830 34645 283 6 00000		USB	(AB)
S06s	10532	1-11	0840	Wed	464 821 5 36343 33365 97541 84517 48694 821 5 00000		USB	(AB/HFD)
S06s	11830	1-11	0840	Wed	745 283 6 44008 38453 38324 33885 31830 34645 283 6 00000		USB	(AB/HFD)
S06s	12365	1-11	1000	Wed	729 430 5 32030 34002 36870 39553 35530 430 5 00000		USB	(AB/MPJ/ES/HFD)
S06s	14280	1-11	1010	Wed	729 430 5 32030 34002 36870 39553 35530 430 5 00000		USB	(AB/MPJ/ES/HFD)
S06s	8812	2-11	0930	Thu	314 298 5 32614 41332 86067 25487 44036 298 5 00000		USB	(AB/HFD)
S06s	9540	2-11	0940	Thu	314 298 5 32614 41332 86067 25487 44036 298 5 00000		USB	(AB/HFD)
S06s	12155	2-11	1200	Thu	425 873 6 40328 35929 47234 33940 48075 30349 873 6 00000		USB	(AB/MPJ/ES/HFD)

S06s	10920	2-11	1210	Thu	425 873 6 40328 35929 47234 33940 48075 30349 873 6 00000	USB	(AB/MPJ/ES/HFD)
S06s	5765	3-11	0900	Fri	624 918 5 33699 39998 30667 35947 83964 918 5 00000	USB	(AB/HFD)
S06s	6315	3-11	0910	Fri	624 918 5 33699 39998 30667 35937 83964 918 5 00000	USB	(AB/HFD)
S06s	11780	3-11	0930	Fri	516 908 7 46062 68672 97478 39685 30485 96632 52537 908 7 00000	USB	(AB/MPJ/HFD)
S06s	12570	3-11	0940	Fri	516 908 7 46062 68672 97478 39685 30485 96632 52537 908 7 00000	USB	(AB/MPJ/HFD)
S06s	8680	4-11	0800	Sat	254 917 6 11647 67208 18495 72852 34407 85065 917 6 00000	USB	(AB/HFD)
S06s	8260	4-11	0810	Sat	254 917 6 11647 67208 18495 72852 34407 85065 917 6 00000	USB	(AB/HFD)
S06s	13470	5-11	0630	Sun	524 913 6 02688 58069 61732 74537 67440 79501 913 6 00000	USB	(AB/BvR)
S06s	16515	5-11	0640	Sun	524 913 6 02688 58069 61732 74537 67440 79501 913 6 00000	USB	(AB)
S06s	8057	6-11	0830	Mon	371 809 5 47665 94092 48521 63888 92060 809 5 00000	USB	(AB/HFD)
S06s	8530	6-11	0840	Mon	371 809 5 47665 94092 48521 63888 92060 809 5 00000	USB	(AB/HFD)
S06s	14675	6-11	0900	Mon	872 531 6 79302 53516 25616 56069 86813 14199 531 6 00000	USB	(AB)
S06s	12830	6-11	0910	Mon	872 531 6 79302 53516 25616 56069 86813 14199 531 6 00000	USB	(AB/HFD)
S06s	8420	6-11	1300	Mon	831 290 5 50128 99477 83574 48871 34694 290 5 00000	USB	(AB/MPJ)
S06s	10635	6-11	1310	Mon	831 290 5 50128 99477 83574 48871 34694 290 5 00000	USB	(AB/MPJ/HFD)
S06s	16145	7-11	0600	Tue	438 971 5 96632 52537 53317 06675 41736 971 5 00000	USB	(AB/HFD)
S06s	14240	7-11	0610	Tue	438 971 5 96632 52537 53317 06675 41736 971 5 00000	USB	(AB/ES/HFD)
S06s	5250	7-11	0700	Tue	374 206 5 41412 55678 09775 86415 25910 206 5 00000	USB	(AB/ES/HFD)
S06s	6320	7-11	0715	Tue	374 206 5 41412 55678 09775 86415 25910 206 5 00000	USB	(AB/HFD)
S06s	7410	7-11	0730	Tue	427 801 5 63427 53712 94042 36241 95647 801 5 00000	USB	(AB/ES/HFD)
S06s	11532	7-11	0740	Tue	427 801 5 63427 53712 94042 36241 95647 801 5 00000	USB	(AB/HFD)
S06s	11945	7-11	0800	Tue	352 819 6 95626 62331 26342 95055 63425 85637 819 6 00000	USB	(AB/HFD)
S06s	13195	7-11	0810	Tue	352 819 6 95626 62331 26342 95055 63425 85637 819 6 00000	USB	(AB/HFD)
S06s	6440	7-11	1000	Tue	893 507 6 85518 83939 48340 30054 40909 39394 507 6 00000	USB	(HFD)
S06s	5560	7-11	1010	Tue	893 507 6 85518 83939 48340 30054 40909 39394 507 6 00000	USB	(AB-POL/MPJ/HFD)
S06s	5035	7-11	1100	Tue	754 263 8 44475 30322 36034 45445 44008 38453 48324 33885 263 8 00000	USB	(AB-HNG/MPJ/HFD)
S06s	5975	7-11	1110	Tue	754 263 8 44475 30322 36034 45445 44008 38453 48324 33885 263 8 00000	USB	(AB-HNG/MPJ/HFD)
S06s	6845	7-11	1500	Tue	537 219 6 33699 39998 30667 35947 83964 40774 219 6 00000	USB	(AB/MPJ/HFD)
S06s	9170	7-11	1510	Tue	537 219 6 33699 39998 30667 35947 83964 40774	USB	(AB/MPJ/HFD)

					219 6 00000)
S06s	8417	8-11	0820	Wed	471 580 6 37142 32842 30003 98328 33055 31123 580 6 00000	USB	(AB)				
S06s	7062	8-11	0830	Wed	464 821 5 36343 33365 97541 84517 48694 821 5 00000	USB	(AB)				
S06s	9262	8-11	0830	Wed	471 580 6 37142 32842 30003 98328 33055 31123 580 6 00000	USB	(AB)				
S06s	11535	8-11	0830	Wed	745 283 6 44008 38453 38324 33885 31830 34645 283 6 00000	USB	(AB)				
S06s	10532	8-11	0840	Wed	464 821 5 36343 33365 97541 84517 48694 821 5 00000	USB	(AB)				
S06s	11830	8-11	0840	Wed	745 283 6 44008 38453 38324 33885 31830 34645 283 6 00000	USB	(AB)				
S06s	12365	8-11	1000	Wed	729 430 5 32030 34002 36870 39553 35530 430 5 00000	USB	(AB)				
S06s	14280	8-11	1010	Wed	729 430 5 32030 34002 36870 39553 35530 430 5 00000	USB	(AB)				
S06s	8812	9-11	0930	Thu	314 298 5 32614 41332 86067 25487 44036 298 5 00000	USB	(AB)				
S06s	9540	9-11	0940	Thu	314 298 5 32614 41332 86067 25487 44036 298 5 00000	USB	(AB/ES)				
S06s	12155	9-11	1200	Thu	425 873 6 40328 35929 47234 33940 48075 30349 873 6 00000	USB	(AB/MPJ)				
S06s	10920	9-11	1210	Thu	425 873 6 40328 35929 47234 33940 48075 30349 873 6 00000	USB	(AB/MPJ)				
S06s	5765	10-11	0900	Fri	624 918 5 33699 39998 30667 35947 83964 918 5 00000	USB	(AB)				
S06s	6315	10-11	0910	Fri	624 918 5 33699 39998 30667 35937 83964 918 5 00000	USB	(AB)				
S06s	11780	10-11	0930	Fri	516 908 7 46062 68672 97478 39685 30485 96632 52537 908 7 00000	USB	(AB/MPJ)				
S06s	12570	10-11	0940	Fri	516 908 7 46062 68672 97478 39685 30485 96632 52537 908 7 00000	USB	(AB/MPJ)				
S06s	13470	12-11	0630	Sun	524 913 6 02688 58069 61732 74537 67440 79501 913 6 00000	USB	(AB)				
S06s	16515	12-11	0640	Sun	524 913 6 02688 58069 61732 74537 67440 79501 913 6 00000	USB	(AB)				
S06s	8057	13-11	0830	Mon	371 809 5 47665 94092 48521 63888 92060 809 5 00000	USB	(AB)				
S06s	8530	13-11	0840	Mon	371 809 5 47665 94092 48521 63888 92060 809 5 00000	USB	(AB)				
S06s	14675	13-11	0900	Mon	872 531 6 79302 53516 25616 56069 86813 14199 531 6 00000	USB	(AB)				
S06s	12830	13-11	0910	Mon	872 531 6 79302 53516 25616 56069 86813 14199 531 6 00000	USB	(AB)				
S06s	8420	13-11	1300	Mon	831 290 5 50128 99477 83574 48871 34694 290 5 00000	USB	(AB/MPJ)				
S06s	10635	13-11	1310	Mon	831 290 5 50128 99477 83574 48871 34694 290 5 00000	USB	(AB/MPJ)				
S06s	16145	14-11	0600	Tue	438 971 5 96632 52537 53317 06675 41736 971 5 00000	USB	(AB)				
S06s	14240	14-11	0610	Tue	438 971 5 96632 52537 53317 06675 41736 971 5 00000	USB	(AB)				
S06s	5250	14-11	0700	Tue	374 206 5 41412 55678 09775 86415 25910 206 5 00000	USB	(AB/ES)				
S06s	6320	14-11	0715	Tue	374 206 5 41412 55678 09775 86415 25910 206 5 00000	USB	(AB)				
S06s	7410	14-11	0730	Tue	427 801 5 63427 53712 94042 36241 95647 801 5 00000	USB	(AB)				
S06s	11532	14-11	0740	Tue	427 801 5 63427 53712 94042 36241 95647 801 5 00000	USB	(AB)				

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S06s	11945	14-11	0800	Tue	352 819 6 95626 62331 26342 95055 63425 85637 819 6 00000	USB	(AB)				
S06s	13195	14-11	0810	Tue	352 819 6 95626 62331 26342 95055 63425 85637 819 6 00000	USB	(AB)				
S06s	5035	14-11	1100	Tue	754 263 8 44475 30322 36034 45445 44008 38453 48324 33885 263 8 00000	USB	(AB-POL)				
S06s	5975	14-11	1110	Tue	754 263 8 44475 30322 36034 45445 44008 38453 48324 33885 263 8 00000	USB	(AB-POL)				
S06s	6845	14-11	1500	Tue	537 219 6 33699 39998 30667 35947 83964 40774 219 6 00000	USB	(AB/MPJ)				
S06s	9170	14-11	1510	Tue	537 219 6 33699 39998 30667 35947 83964 40774 219 6 00000	USB	(AB/MPJ)				
S06s	8417	15-11	0820	Wed	471 503 6 53226 93526 84526 93423 02304 51 then off	USB	(AB)				
S06s	7062	15-11	0830	Wed	464 281 5 45326 89657 52317 69874 25347 281 5 00000	USB	(AB)				
S06s	9262	15-11	0830	Wed	471 503 6 53226 93526 84526 93423 02304 51242 503 6 00000	USB	(AB)				
S06s	11535	15-11	0830	Wed	745 218 6 94527 53434 74527 92317 84536 05605 218 6 00000	USB	(AB)				
S06s	10532	15-11	0840	Wed	464 281 5 45326 89657 52317 69874 25347 281 5 00000	USB	(AB)				
S06s	11830	15-11	0840	Wed	745 218 6 94527 53434 74527 92317 84536 05605 218 6 00000	USB	(AB)				
S06s	12365	15-11	1000	Wed	729 836 5 05637 62316 73425 83427 83523 836 5 00000	USB	(AB/MPJ)				
S06s	14280	15-11	1010	Wed	729 836 5 05637 62316 73425 83427 83523 836 5 00000	USB	(AB/MPJ)				
S06s	8812	16-11	0930	Thu	314 892 5 13900 48366 36534 32840 48436 892 5 00000	USB	(AB)				
S06s	9540	16-11	0940	Thu	314 892 5 13900 48366 36534 32840 48436 892 5 00000	USB	(AB/ES)				
S06s	12115	16-11	1200	Thu	425 971 6 43389 30419 30412 38343 36628 32225 971 6 00000 on 12115 vice 12155 kHz	USB	(AB/MPJ)				
S06s	10920	16-11	1210	Thu	425 971 6 43389 30419 30412 38343 36628 32225 971 6 00000	USB	(AB)				
S06s	5765	17-11	0900	Fri	624 981 5 30593 34756 34315 32217 47490 981 5 00000	USB	(AB)				
S06s	6315	17-11	0910	Fri	624 981 5 30593 34756 34315 32217 47490 981 5 00000	USB	(AB)				
S06s	11780	17-11	0930	Fri	516 428 7 41347 85557 43311 88222 47840 14987 37986 428 7 00000	USB	(AB)				
S06s	12570	17-11	0940	Fri	516 428 7 41347 85557 43311 88222 47840 14987 37986 428 7 00000	USB	(AB)				
S06s	8057	20-11	0830	Mon	371 965 8 13041 34000 88632 77642 01433 42486 44360 46296 965 8 00000	USB	(AB)				
S06s	8530	20-11	0840	Mon	371 965 8 13041 34000 88632 77642 01433 42486 44360 46296 965 8 00000	USB	(AB)				
S06s	14675	20-11	0900	Mon	872 539 6 44622 28153 00266 81864 64865 74245 539 6 00000	USB	(AB)				
S06s	12830	20-11	0910	Mon	872 539 6 44622 28153 00266 81864 64865 74245 539 6 00000	USB	(AB)				
S06s	8420	20-11	1300	Mon	831 954 6 74245 80702 87265 55775 61474 98513 954 6 00000	USB	(AB)				
S06s	10635	20-11	1310	Mon	831 954 6 74245 80702 87265 55775 61474 98513 954 6 00000	USB	(AB/MPJ-AUT)				
S06s	7410	21-11	0730	Tue	427 968 5 31403 38153 39650 84498 30419 968 5 00000	USB	(AB)				
S06s	11532	21-11	0740	Tue	427 968 5 31403 38153 39650 84498 30419 968 5 00000	USB	(AB)				

S4524	4524	5-11	1851	Sun	Channel marker	USB	(chpa)
S4524	4524	9-11	1825	Thu	Dash channel marker	USB	(AB)
S4524	4524	26-11	0638	Sun	Dash channel marker	USB	(AB)
S5292	3240	1-11	2142	Wed	Channel marker D	USB	(AB)
S5292	3240	9-11	1825	Thu	Channel marker B instead of D	USB	(AB)
S5425	5425	23-11	1844	Thu	Dash marker	USB	(AB)
S6360	6360	26-11	0605	Sun	Goose channel marker	USB	(AB)
S6390	6360	17-11	1523	Fri	Goose channel marker	USB	(AB)
S6930	3012	1-11	2142	Wed	Goose channel marker	USB	(AB)
UM03	7920	15-11	0932	Wed	i.p. AR ZOM15 CQ (x3) DE X2M (x2) VVV (x3)MSG MSG ENG ENG 01 01 CK 100 CK 100 TIME 1632 TIME 1632 DATE 1511 DATE 1511 = //8250, 8410 kHz	CW	(JPL-CHN)
UM03	8250	15-11	0932	Wed	i.p. AR ZOM15 CQ (x3) DE X2M (x2) VVV (x3)MSG MSG ENG ENG 01 01 CK 100 CK 100 TIME 1632 TIME 1632 DATE 1511 DATE 1511 = //7920, 8410 kHz	CW	(JPL-CHN)
UM03	8410	15-11	0932	Wed	i.p. AR ZOM15 CQ (x3) DE X2M (x2) VVV (x3)MSG MSG ENG ENG 01 01 CK 100 CK 100 TIME 1632 TIME 1632 DATE 1511 DATE 1511 = //7920, 8250 kHz	CW	(JPL-CHN)
UM03	8261	15-11	0937	Wed	i.p. MBVQZ AR W ? VA QSL .. K. MSG NR 13 NR 13 D5L = HOHON = = LADTE VVEYNP KNQIK TILAC L.GV XMPEY WYNQF ...	CW	(JPL-CHN)
UM03	7658	20-11	1036	Mon	i.p. NR NR 380 380 CK CK 50 50 DATE DATE 21 21 21 R 11 TIME TIME 17R30 17R30 = DFUJM BDSVE ...	CW	(JPL-CHN)
UM03	4341	24-11	1133	Fri	i.p. 33 R1133 24R11 24R11 18R30 18R30 = GVVPE YHKTI KRR.. (Cont'd)	CW	(JPL-CHN)
UM03	8250	27-11	0735	Mon	i.p. TIME 1435 TIME 1435 DATE 2711 DATE 2711 = KNCET CFUWL ... //8410 kHz	CW	(JPL-CHN)
UM03	8410	27-11	0735	Mon	i.p. TIME 1435 TIME 1435 DATE 2711 DATE 2711 = KNCET CFUWL ... //8250 kHz	CW	(JPL-CHN)
UM03	7920	29-11	0928	Wed	i.p. CQ (x3) DE X2M (x2) VVV (x3) MSG MSG ENG ENG 81 81 CK 100 CK 100 TIME 1631 TIME 1631 DATE 2911 DATE 2911 = //8250, 8410 kHz	CW	(JPL-CHN)
UM03	8250	29-11	0928	Wed	i.p. CQ (x3) DE X2M (x2) VVV (x3) MSG MSG ENG ENG 81 81 CK 100 CK 100 TIME 1631 TIME 1631 DATE 2911 DATE 2911 = //7920, 8410 kHz	CW	(JPL-CHN)
UM03	8410	29-11	0928	Wed	i.p. CQ (x3) DE X2M (x2) VVV (x3) MSG MSG ENG ENG 81 81 CK 100 CK 100 TIME 1631 TIME 1631 DATE 2911 DATE 2911 = //7920, 8250 kHz	CW	(JPL-CHN)
UM03	8282	29-11	0938	Wed	i.p. KNCFU WRJXA ... VA //7920, 8250, 8410 kHz	CW	(JPL-CHN)
UM03	8410	29-11	0938	Wed	i.p. KNCFU WRJXA ... VA //7920, 8250, 8282 kHz	CW	(JPL-CHN)
UM03	8230	29-11	0940	Wed	i.p. KNCFU WRJXA ... VA //7920, 8250, 8410 kHz	CW	(JPL-CHN)
UM03	8410	29-11	0940	Wed	i.p. KNCFU WRJXA ... VA //7920, 8250, 8230 kHz	CW	(JPL-CHN)
UM03	5250	29-11	1326	Wed	i.p. DE CSJ QSL 10W FM K. DE .XK 10WF =T QKPAY NOEOR VKXEG SWXOV VCEFB ...	CW	(JPL-CHN)
UM10	6849	16-11	0622	Thu	10-mins net: XD3F (new callsign and freq)	CW	(JPL-Sib)
UM10	6825	16-11	0645	Thu	10-mins net: EDLJ (new callsign and freq)	CW	(JPL-J)
UM10	6849	16-11	0645	Thu	10-mins net: XD3F (new callsign and freq)	CW	(JPL-Sib)
UM10	6825	19-11	0755	Sun	10-mins net: EDLJ	CW	(JPL-KOR)
UM10	3776	30-11	1924	Thu	10-mins net: A4JC	CW	(JPL)
V07	18174	5-11	0100	Sun	183 183 183 1 6081 69 97981 77799 35455 06191 9061? 000 000	USB	(Dan/HFD- USA)
V07	15874	5-11	0120	Sun	183 183 183 1 6081 69 97981 77799 35455 06191 9061? 000 000	USB	(Dan/HFD- USA)
V07	14374	5-11	0140	Sun	183 183 183 1 6081 69 97981 77799 35455 06191 9061? 000 000	USB	(Dan/HFD- USA)
V07	18174	12-11	0100	Sun	183 183 183 000	USB	(Dan)
V07	15874	12-11	0120	Sun	183 183 183 000	USB	(Dan)
V13	7688	14-11	1210	Tue	New Star Broadcasting i.p.	AM	(Phi-J)
V13	7688	15-11	1200	Wed	New Star Broadcasting	AM	(AB-PHL)
V13	13750	19-11	0100	Sun	New Star Broadcasting	AM	(Token)

V15	3320	4-11	1512	Sat	North Korean Intelligence via Radio Pyongyang. Music followed by a message in Korean //3250, 6400 kHz	AM	(CM2)
V15	3250	4-11	1514	Sat	North Korean Intelligence via Radio Pyongyang i.p. Female operator reading a message in Korean //3320, 6400 kHz	AM	(AB-KOR)
V15	6400	4-11	1515	Sat	North Korean Intelligence via Radio Pyongyang. Music followed by a message in Korean //3250, 3320 kHz	AM	(Token)
V15	3250	9-11	1615	Thu	Music followed by a message in Korean //3320, 6400 kHz	USB	(AB-KOR)
V15	3320	9-11	1615	Thu	Music followed by a message in Korean //3250, 6400 kHz	USB	(AB-KOR)
V15	6400	9-11	1615	Thu	Music followed by a message in Korean //3250, 3320 kHz	USB	(AB-KOR)
V24	6310	1-11	1530	Wed	Music: Mael Geudaew, followed by a message in Korean	AM	(AB-KOR/Phi)
V24	6310	3-11	1530	Fri	Music followed by a message in Korean	AM	(MKD2/Token)
V24	6215	5-11	1500	Sun	Music followed by a message in Korean	AM	(AB)
V24	6310	8-11	1530	Wed	Music followed by a message in Korean	AM	(AB-KOR)
V24	6215	9-11	1500	Thu	Music followed by a message in Korean	AM	(AB-J)
V26	4364	19-11	1204	Sun	Messages in Chinese. Male operator //8073 kHz	USB	(JPL)
V26	8073	19-11	1204	Sun	Messages in Chinese. Male operator //4364 kHz	USB	(JPL)
V26	4243	19-11	1217	Sun	Messages in Chinese/ Female operator	USB	(JPL)
V26	4243	19-11	1225	Sun	Messages in Chinese. Female operator //9054 kHz	USB	(JPL)
V26	9054	19-11	1225	Sun	Messages in Chinese. Female operator //4243 kHz	USB	(JPL)
V26	4364	20-11	1130	Mon	Callup in Chinese //8073	USB	(JPL)
V26	8073	20-11	1130	Mon	Callup in Chinese //4364	USB	(JPL)
V26	4243	20-11	1204	Mon	Messages in Chinese. Female operator //9054	USB	(JPL)
V26	9054	20-11	1204	Mon	Messages in Chinese. Female operator //4243	USB	(JPL)
V26	4364	21-11	1130	Tue	Callup in Chinese //8073	USB	(JPL)
V26	8073	21-11	1130	Tue	Callup in Chinese //4364	USB	(JPL)
V26	4243	24-11	1212	Fri	Messages in Chinese. Female operator //9054	USB	(JPL)
V26	9054	24-11	1212	Fri	Messages in Chinese. Female operator //4243	USB	(JPL)
V28	2930	1-11	1337	Wed	Parrot. Messages in Korean. Female operator	AM	(HK)
V28	3000	1-11	1337	Wed	Parrot. Messages in Korean. Male operator	AM	(HK)
V28	3050	1-11	1337	Wed	Parrot. Messages in Korean	AM	(HK)
V28	3518	1-11	1337	Wed	Parrot. Messages in Korean. Female operator	AM	(HK)
V28	4494	2-11	2229	Thu	Parrot. Message in Korean. Female operator. Secret code sounded like as Kong-Goh-San	AM	(HK)
V28	4628	2-11	2229	Thu	Parrot. Message in Korean. Female operator.	AM	(HK)
V28	4979	2-11	2234	Thu	Parrot. Message in Korean	AM	(HK)
V28	5164	2-11	2234	Thu	Parrot. Message in Korean. Male operator.	AM	(HK)
V28	4494	4-11	2230	Sat	Parrot. Message in Korean. Code word San Go San. Female operator	AM	(HK)
V28	4628	4-11	2230	Sat	Parrot. Message in Korean. Female operator	AM	(HK)
V28	4972	4-11	2231	Sat	Parrot. Message in Korean. Female operator. Moved to 4982 kHz at 2232 UTC	AM	(HK)
V28	5071	4-11	2231	Sat	Parrot. Message in Korean. Male operator. Probably moved to 5160 kHz	AM	(HK)
V28	4982	4-11	2232	Sat	Parrot. Message in Korean. Female operator. Comes from 4972 kHz	AM	(HK)
V28	5160	4-11	2233	Sat	Parrot. Message in Korean. Male operator. Comes probably from 5071 kHz	AM	(HK)
V28	3050.4	5-11	1329	Sun	Parrot. Message in Korean. Female operator	AM	(HK)
V28	3517.9	5-11	1335	Sun	Parrot. Message in Korean. Female operator	AM	(HK)
V28	2933.3	5-11	1337	Sun	Parrot. Message in Korean. Barely audible	AM	(HK)
V28	4494	5-11	2239	Sun	Parrot. Message in Korean. Female operator	AM	(HK)
V28	4983	5-11	2239	Sun	Parrot. Message in Korean. Female operator	AM	(HK)

V28	5163	5-11	2239	Sun	Parrot. Message in Korean. Male operator	AM	(HK)
V28	4628	5-11	2244	Sun	Parrot. Message in Korean. Female operator	AM	(HK)
V28	3049	6-11	1329	Mon	Parrot. Message in Korean. Moves to 3051 kHz	AM	(HK)
V28	3518	6-11	1330	Mon	Parrot. Message in Korean.	AM	(HK)
V28	2933	6-11	1332	Mon	Parrot. Message in Korean.	AM	(HK)
V28	3002	6-11	1333	Mon	Parrot. Message in Korean. Male operator	AM	(HK)
V28	4494	10-11	2229	Fri	Parrot. Messages in Korean. Female operator	AM	(Phi)
V28	4629.9	10-11	2230	Fri	Parrot. Messages in Korean. Female operator	AM	(Phi)
V28	4977.1	10-11	2232	Fri	Parrot. Messages in Korean. Female operator	AM	(Phi)
V28	5163.6	10-11	2236	Fri	Parrot. Messages in Korean. Male operator	AM	(Phi)
V28	3517.9	12-11	1330	Sun	Parrot. Messages in Korean. Female operator	AM	(Phi)
V28	3050.7	12-11	1331	Sun	Parrot. Messages in Korean. Female operator	AM	(Phi)
V28	2933.5	12-11	1332	Sun	Parrot. Messages in Korean	AM	(Phi)
V28	3001.1	12-11	1338	Sun	Parrot. Messages in Korean. Female and male operators	AM	(Phi)
V28	4494	15-11	2230	Wed	Parrot. Messages in Korean. Female operator	AM	(HK)
V28	4630	15-11	2230	Wed	Parrot. Messages in Korean. Female operator	AM	(HK)
V28	4977	15-11	2230	Wed	Parrot. Messages in Korean. Female operator	AM	(HK)
V28	5164	15-11	2230	Wed	Parrot. Messages in Korean. Male operator	AM	(HK)
V28	3001	16-11	1334	Thu	Parrot. Messages in Korean. Male operator	AM	(HK)
V28	3044	16-11	1334	Thu	Parrot. Messages in Korean. Female operator	AM	(HK)
V28	3517	16-11	1334	Thu	Parrot. Messages in Korean. Female operator	AM	(HK)
V28	3518	17-11	1330	Fri	Parrot. Messages in Korean. Female operator	AM	(HK)
V28	3001	17-11	1334	Fri	Parrot. Messages in Korean. Male operator	AM	(HK)
V28	3050	17-11	1334	Fri	Parrot. Messages in Korean. Female operator	AM	(HK)
V28	3001	18-11	1331	Sat	Parrot. Messages in Korean. Female operator	AM	(HK)
V28	3518	18-11	1331	Sat	Parrot. Messages in Korean. Female operator	AM	(HK)
V28	3001	19-11	1331	Sun	Parrot. Messages in Korean. Female operator	AM	(HK)
V28	3518	19-11	1331	Sun	Parrot. Messages in Korean. Female operator	AM	(HK)
V28	4494	20-11	2230	Mon	Parrot. Messages in Korean. Female operator	AM	(HK)
V28	4625	20-11	2230	Mon	Parrot. Messages in Korean. Female operator	AM	(HK)
V28	4975	20-11	2230	Mon	Parrot. Messages in Korean. Female operator	AM	(HK)
V28	5172.5	20-11	2230	Mon	Parrot. Messages in Korean. Male operator	AM	(HK)
V28	3051.2	26-11	1331	Sun	Parrot. Messages in Korean. Female operator	AM	(HK-KOR)
V28	3001.1	26-11	1333	Sun	Parrot. Messages in Korean. Male operator	AM	(HK-KOR)
V28	2931 8	26-11	1337	Sun	Parrot. Messages in Korean. Female operator. Drifting to 2930.8 kHz	AM	(HK-KOR)
V28	2931	27-11	1329	Mon	Parrot. Messages in Korean	AM	(Phi)
V28	3518	27-11	1329	Mon	Parrot. Messages in Korean	AM	(Phi)
V28	3050	27-11	1330	Mon	Parrot. Messages in Korean	AM	(Phi)
V28	3001	27-11	1332	Mon	Parrot. Messages in Korean	AM	(Phi)
V28	4494	27-11	2233	Mon	Parrot. Messages in Korean. Female operator	AM	(HK)
V28	4625	27-11	2233	Mon	Parrot. Messages in Korean. Female operator	AM	(HK)
V28	5035	27-11	2233	Mon	Parrot. Messages in Korean. Male operator	AM	(HK)
V28	5157	27-11	2233	Mon	Parrot. Messages in Korean. Male operator	AM	(HK)
V28	2932	29-11	1337	Wed	Parrot. Messages in Korean	AM	(HK)
V28	3001	29-11	1337	Wed	Parrot. Messages in Korean. Male operator	AM	(HK)
V28	3518	29-11	1337	Wed	Parrot. Messages in Korean	AM	(HK)
V28	3051	29-11	1338	Wed	Parrot. Tentative	AM	(HK)
V28	4490	29-11	2230	Wed	Parrot. Messages in Korean. Male operator	AM	(HK)
V28	4635	29-11	2231	Wed	Parrot. Messages in Korean. Female operator	AM	(HK)
V28	4983	29-11	2231	Wed	Parrot. Messages in Korean. Female operator	AM	(HK)
V28	5166	29-11	2233	Wed	Parrot. Messages in Korean. Male operator	AM	(HK)
VC01	3624	3-3-2016	1355		Chinese Robot slow version	USB	(HK)
VC01	5104	20-3-2016	1152		Chinese Robot slow version	USB	(HK)
VC01	4334.5	1-1	1444		Chinese Robot slow version	USB	(HK)
VC01	5139	31-1	1227		Chinese Robot slow version	USB	(HK)
VC01	5223.5	25-2	0934		Chinese Robot slow version	USB	(HK)

VC01	7624	1-11	0514	Wed	Chinese Robot i.p.	LSB	(AB-CHN)
VC01	8107	1-11	0514	Wed	Chinese Robot i.p.	USB	(AB-CHN)
VC01	7624	1-11	1042	Wed	Chinese Robot i.p.	LSB	(AB-CHN)
VC01	8107	1-11	1042	Wed	Chinese Robot i.p.	USB	(AB-CHN)
VC01	3021	1-11	1545	Wed	Chinese Robot i.p.	USB	(AB-CHN)
VC01	4265	1-11	1545	Wed	Chinese Robot i.p.	LSB	(AB-CHN)
VC01	8107	2-11	0521	Thu	Chinese Robot	USB	(AB-KOR)
VC01	5440	2-11	0746	Thu	Chinese Robot	LSB	(AB-CHN)
VC01	8107	2-11	0746	Thu	Chinese Robot	USB	(AB-CHN)
VC01	3021	2-11	1301	Thu	Chinese Robot i.p.	USB	(AB-CHN)
VC01	4265	2-11	1301	Thu	Chinese Robot i.p.	LSB	(AB-CHN)
VC01	5440	4-11	0619	Sat	Chinese Robot i.p.	LSB	(AB-CHN)
VC01	8107	4-11	0619	Sat	Chinese Robot i.p.	USB	(AB-CHN)
VC01	5440	5-11	0606	Sun	Chinese Robot i.p.	LSB	(AB-HK)
VC01	5857	5-11	0606	Sun	Chinese Robot i.p.	USB	(AB-HK)
VC01	5440	6-11	0503	Mon	Chinese Robot i.p.	LSB	(AB-CHN)
VC01	5857	6-11	0503	Mon	Chinese Robot i.p.	USB	(AB-CHN)
VC01	5440	7-11	0528	Tue	Chinese Robot i.p.	LSB	(AB-CHN)
VC01	5857	7-11	0528	Tue	Chinese Robot i.p.	USB	(AB-CHN)
VC01	5440	8-11	0608	Wed	Chinese Robot i.p.	LSB	(AB-CHN)
VC01	5857	8-11	0608	Wed	Chinese Robot i.p.	USB	(AB-CHN)
VC01	3623	8-11	1552	Wed	Chinese Robot i.p.	USB	(AB-CHN)
VC01	4264.5	8-11	1552	Wed	Chinese Robot i.p.	LSB	(AB-CHN)
VC01	5440	9-11	0458	Thu	Chinese Robot i.p.	LSB	(AB-CHN)
VC01	5857	9-11	0458	Thu	Chinese Robot i.p.	USB	(AB-CHN)
VC01	5440	10-11	0458	Fri	Chinese Robot i.p.	LSB	(AB-CHN)
VC01	5857	10-11	0458	Fri	Chinese Robot i.p.	USB	(AB-CHN)
VC01	5440	13-11	0519	Mon	Chinese Robot i.p.	LSB	(AB-CHN)
VC01	5857	13-11	0519	Mon	Chinese Robot i.p.	USB	(AB-CHN)
VC01	5440	15-11	0607	Wed	Chinese Robot i.p.	LSB	(AB-CHN)
VC01	5857	15-11	0607	Wed	Chinese Robot i.p.	USB	(AB-CHN)
VC01	3625	15-11	1306	Wed	Chinese Robot i.p.	USB	(AB-KOR)
VC01	4265	15-11	1306	Wed	Chinese Robot i.p.	LSB	(AB-KOR)
VC01	5440	24-11	0517	Fri	Chinese Robot i.p.	LSB	(AB-CHN)
VC01	5857	24-11	0517	Fri	Chinese Robot i.p.	USB	(AB-CHN)
VC01	3623	29-11	1319	Wed	Chinese Robot i.p.	USB	(AB-CHN)
VC01	4625	29-11	1319	Wed	Chinese Robot i.p.	LSB	(AB-CHN)
X06	14631	1-11	0923	Wed	362154	MFSK-6	(HFD)
X06	14631	1-11	0923	Wed	Mazielka. Sequence: 362154	MFSK-6	(Danix)
X06	14650	1-11	1103	Wed	Mazielka. Sequence: 215346	MFSK-6	(Danix)
X06	12158	1-11	1457	Wed	Mazielka. Sequence: 145632	MFSK-6	(Danix)
X06	17468	2-11	0703	Thu	Mazielka. Sequence: 436512	MFSK-6	(Danix)
X06	12195	2-11	0707	Thu	Mazielka. Sequence: 314265	MFSK-6	(Danix)
X06	13405	2-11	1223	Thu	Mazielka. Sequence: 352416	MFSK-6	(Danix)
X06	16219	3-11	0928	Fri	Mazielka. Sequence: 324615	MFSK-6	(Danix)
X06	12215	3-11	0958	Fri	Mazielka. Sequence: 361245	MFSK-6	(Danix)
X06	13547	3-11	1018	Fri	Mazielka. Sequence: 625413	MFSK-6	(Danix)
X06	14934	5-11	0750	Sun	Mazielka. Sequence: 351264	MFSK-6	(Danix)
X06	20336	7-11	0921	Tue	Mazielka. Sequence: 246531	MFSK-6	(Danix)
X06	14358	7-11	0934	Tue	Mazielka. Sequence: 154263	MFSK-6	(Danix)
X06	14358	7-11	1036	Tue	Mazielka. Sequence: 362451	MFSK-6	(chpa)
X06	18523	7-11	1207	Tue	Mazielka. Sequence: 325614	MFSK-6	(ES)
X06	14942	7-11	1227	Tue	Mazielka. Sequence: 325614	MFSK-6	(Danix)
X06	11525	7-11	1256	Tue	Mazielka. Sequence: 156234	MFSK-6	(Danix)
X06	11525	7-11	1300	Tue	156234	MFSK-6	(HFD)
X06	13506	9-11	0955	Thu	Mazielka. Sequence: 164532	MFSK-6	(Danix)
X06	14442	10-11	0851	Fri	Mazielka. Sequence: 564213	MFSK-6	(Danix)
X06	17463	10-11	0952	Fri	Mazielka. Sequence: 256134	MFSK-6	(Danix)
X06	14861	14-11	0834	Tue	Mazielka. Sequence: 542136	MFSK-6	(Avare)
X06	12360	14-11	1428	Tue	Mazielka. Sequence: 564213	MFSK-6	(Danix)

									20/10Bd	
XPA	13509	6-11	0720	Mon	456 456 456 000 08451 00001 00000 10140				MFSK-20/10Bd	(AB)
XPA	14609	6-11	0740	Mon	456 456 456 000 08451 00001 00000 10140				MFSK-20/10Bd	(AB)
XPA	11409	8-11	0700	Wed	456 456 456 000 01009 00001 00000 10140				MFSK-20/10Bd	(AB)
XPA	13509	8-11	0720	Wed	456 456 456 000 01009 00001 00000 10140				MFSK-20/10Bd	(AB)
XPA	14609	8-11	0740	Wed	456 456 456 000 01009 00001 00000 10140				MFSK-20/10Bd	(AB)
XPA	11409	13-11	0700	Mon	456 456 456 1 09648 00187 23551 ... 67969 66993 33156				MFSK-20/10Bd	(AB)
XPA	13509	13-11	0720	Mon	456 456 456 1 09648 00187 23551 ... 67969 66993 33156				MFSK-20/10Bd	(AB)
XPA	14609	13-11	0740	Mon	456 456 456 1 09648 00187 23551 ... 67969 66993 33156				MFSK-20/10Bd	(AB)
XPA	11409	15-11	0700	Wed	456 456 456 1 09648 00187 23551 ... 67969 66993 33156				MFSK-20/10Bd	(AB)
XPA	13509	15-11	0720	Wed	456 456 456 1 09648 00187 23551 ... 67969 66993 33156				MFSK-20/10Bd	(AB)
XPA	14609	15-11	0740	Wed	456 456 456 1 09648 00187 23551 ... 67969 66993 33156				MFSK-20/10Bd	(AB)
XPA	11409	20-11	0700	Mon	456 456 456 000 05774 00001 00000 10140				MFSK-20/10Bd	(AB)
XPA	13509	20-11	0720	Mon	456 456 456 000 05774 00001 00000 10140				MFSK-20/10Bd	(AB)
XPA	14609	20-11	0740	Mon	456 456 456 000 05774 00001 00000 10140				MFSK-20/10Bd	(AB)
XPA	11409	22-11	0700	Wed	456 456 456 000 07610 00001 00000 10140				MFSK-20/10Bd	(AB)
XPA	13509	22-11	0720	Wed	456 456 456 000 07610 00001 00000 10140				MFSK-20/10Bd	(AB)
XPA	14609	22-11	0740	Wed	456 456 456 000 07610 00001 00000 10140				MFSK-20/10Bd	(AB)
XPA	11409	27-11	0700	Mon	456 456 456 1 00655 00171 15206 ... 86495 34030 40314				MFSK-20/10Bd	(AB)
XPA	13509	27-11	0720	Mon	456 456 456 1 00655 00171 15206 ... 86495 34030 40314				MFSK-20/10Bd	(AB)
XPA	14609	27-11	0740	Mon	456 456 456 1 00655 00171 15206 ... 86495 34030 40314				MFSK-20/10Bd	(AB)
XPA	11409	29-11	0700	Wed	456 456 456 1 00655 00171 15206 ... 86495 34030 40314				MFSK-20/10Bd	(AB)
XPA	13509	29-11	0720	Wed	456 456 456 1 00655 00171 15206 ... 86495 34030 40314				MFSK-20/10Bd	(AB)
XPA	14609	29-11	0740	Wed	456 456 456 1 00655 00171 15206 ... 86495 34030 40314				MFSK-20/10Bd	(AB)
XPA2	13427	1-11	0800	Wed	msg				MFSK-16/20Bd	(HFD)
XPA2	14627	1-11	0820	Wed	msg				MFSK-16/20Bd	(HFD)
XPA2	15827	1-11	0840	Wed	msg				MFSK-16/20Bd	(HFD)
XPA2	14517	3-11	0700	Fri	06267 00103 40483 ... 04900 61580 52267				MFSK-16/20Bd	(AB/HFD)
XPA2	16017	3-11	0720	Fri	06267 00103 40483 ... 04900 61580 52267				MFSK-16/20Bd	(AB/HFD)
XPA2	17417	3-11	0740	Fri	06267 00103 40483 ... 04900 61580 52267				MFSK-16/20Bd	(AB/HFD)
XPA2	17462	3-11	1400	Fri	05012 00001 00000 10140				MFSK-	(AB/MPJ)

									16/20Bd	
XPA2	16114	3-11	1420	Fri	05012	00001	00000	10140	MFSK-16/20Bd	(AB/MPJ/MD K2)
XPA2	14828	3-11	1440	Fri	05012	00001	00000	10140	MFSK-16/20Bd	(AB/MPJ/MD K2)
XPA2	17462	4-11	1400	Sat	04041	00001	00000	10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	16114	4-11	1420	Sat	04041	00001	00000	10140	MFSK-16/20Bd	(AB/WV/MPJ)
XPA2	14828	4-11	1440	Sat	04041	00001	00000	10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	18238	5-11	1300	Sun	08668	00001	00000	10140	MFSK-16/20Bd	(AB/RL/MPJ)
XPA2	16238	5-11	1320	Sun	08668	00001	00000	10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	14438	5-11	1340	Sun	08668	00001	00000	10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	13427	6-11	0800	Mon	01943	00191	59234 ...	22043 19693 44106	MFSK-16/20Bd	(AB)
XPA2	14627	6-11	0820	Mon	01943	00191	59234 ...	22043 19693 44106	MFSK-16/20Bd	(AB)
XPA2	15827	6-11	0840	Mon	01943	00191	59234 ...	22043 19693 44106	MFSK-16/20Bd	(AB)
XPA2	14517	7-11	0700	Tue	04180	00143	68886 ...	84212 43195 55104	MFSK-16/20Bd	(AB)
XPA2	16017	7-11	0720	Tue	04180	00143	68886 ...	84212 43195 55104	MFSK-16/20Bd	(AB)
XPA2	17417	7-11	0740	Tue	04180	00143	68886 ...	84212 43195 55104	MFSK-16/20Bd	(AB)
XPA2	18238	7-11	1300	Tue	09313	00077	17362 ...	67146 58947 00554	MFSK-16/20Bd	(AB/MPJ/HFD)
XPA2	16238	7-11	1320	Tue	09313	00077	17362 ...	67146 58947 00554	MFSK-16/20Bd	(AB/MPJ/HFD)
XPA2	14438	7-11	1340	Tue	09313	00077	17362 ...	67146 58947 00554	MFSK-16/20Bd	(AB/MPJ/HFD)
XPA2	13427	8-11	0800	Wed	01943	00191	59234 ...	22043 19693 44106	MFSK-16/20Bd	(AB)
XPA2	14627	8-11	0820	Wed	01943	00191	59234 ...	22043 19693 44106	MFSK-16/20Bd	(AB)
XPA2	15827	8-11	0840	Wed	01943	00191	59234 ...	22043 19693 44106	MFSK-16/20Bd	(AB)
XPA2	14517	10-11	0700	Fri	04180	00143	68886 ...	84212 43195 55104	MFSK-16/20Bd	(AB)
XPA2	16017	10-11	0720	Fri	04180	00143	68886 ...	84212 43195 55104	MFSK-16/20Bd	(AB)
XPA2	17417	10-11	0740	Fri	04180	00143	68886 ...	84212 43195 55104	MFSK-16/20Bd	(AB)
XPA2	17462	10-11	1400	Fri	09778	00113	75437 ...	18186 96128 55124	MFSK-16/20Bd	(AB-RUS)
XPA2	16114	10-11	1420	Fri	09778	00113	75437 ...	18186 96128 55124	MFSK-16/20Bd	(AB-RUS)
XPA2	14828	10-11	1440	Fri	09778	00113	75437 ...	18186 96128 55124	MFSK-16/20Bd	(AB-RUS/MPJ)
XPA2	17462	11-11	1400	Sat	09778	00113	75437 ...	18186 96128 55124	MFSK-16/20Bd	(MPJ)
XPA2	16114	11-11	1420	Sat	09778	00113	75437 ...	18186 96128 55124	MFSK-16/20Bd	(MPJ)
XPA2	14828	11-11	1440	Sat	09778	00113	75437 ...	18186 96128 55124	MFSK-16/20Bd	(AB/MPJ/GHn)
XPA2	18238	12-11	1300	Sun	09313	00077	17362 ...	67146 58947 00554	MFSK-	(AB/MPJ)

								16/20Bd	
XPA2	16238	12-11	1320	Sun	09313 00077 17362 ... 67146 58947 00554			MFSK- 16/20Bd	(AB/MPJ)
XPA2	14438	12-11	1340	Sun	09313 00077 17362 ... 67146 58947 00554			MFSK- 16/20Bd	(AB/MPJ)
XPA2	13427	13-11	0800	Mon	03039 00001 00000 10140			MFSK- 16/20Bd	(AB)
XPA2	14627	13-11	0820	Mon	03039 00001 00000 10140			MFSK- 16/20Bd	(AB)
XPA2	15827	13-11	0840	Mon	03039 00001 00000 10140			MFSK- 16/20Bd	(AB)
XPA2	14517	14-11	0700	Tue	04444 00001 00000 10140			MFSK- 16/20Bd	(AB)
XPA2	16017	14-11	0720	Tue	04444 00001 00000 10140			MFSK- 16/20Bd	(AB)
XPA2	17417	14-11	0740	Tue	04444 00001 00000 10140			MFSK- 16/20Bd	(AB)
XPA2	18238	14-11	1300	Tue	06396 00001 00000 10140			MFSK- 16/20Bd	(AB/MPJ)
XPA2	16238	14-11	1320	Tue	06396 00001 00000 10140			MFSK- 16/20Bd	(AB/MPJ)
XPA2	14438	14-11	1340	Tue	06396 00001 00000 10140			MFSK- 16/20Bd	(AB/MPJ)
XPA2	13427	15-11	0800	Wed	06761 00001 00000 10140			MFSK- 16/20Bd	(AB)
XPA2	14627	15-11	0820	Wed	06761 00001 00000 10140			MFSK- 16/20Bd	(AB)
XPA2	15827	15-11	0840	Wed	06761 00001 00000 10140			MFSK- 16/20Bd	(AB)
XPA2	14517	17-11	0700	Fri	02000 00001 00000 10140			MFSK- 16/20Bd	(AB)
XPA2	16017	17-11	0720	Fri	02000 00001 00000 10140			MFSK- 16/20Bd	(AB)
XPA2	17417	17-11	0740	Fri	02000 00001 00000 10140			MFSK- 16/20Bd	(AB)
XPA2	17462	17-11	1400	Fri	03684 00101 18832 ... 05691 67019 14273			MFSK- 16/20Bd	(AB/HFD)
XPA2	16114	17-11	1420	Fri	03684 00101 18832 ... 05691 67019 14273			MFSK- 16/20Bd	(AB/HFD)
XPA2	14828	17-11	1440	Fri	03684 00101 18832 ... 05691 67019 14273			MFSK- 16/20Bd	(AB/HFD)
XPA2	17462	18-11	1400	Sat	03684 00101 18832 ... 05691 67019 14273			MFSK- 16/20Bd	(AB/MPJ)
XPA2	16114	18-11	1420	Sat	03684 00101 18832 ... 05691 67019 14273			MFSK- 16/20Bd	(AB/MPJ)
XPA2	14828	18-11	1440	Sat	03684 00101 18832 ... 05691 67019 14273			MFSK- 16/20Bd	(AB/MPJ)
XPA2	18238	19-11	1300	Sun	03548 00001 00000 10140			MFSK- 16/20Bd	(AB/MPJ/BvR)
XPA2	16238	19-11	1320	Sun	03548 00001 00000 10140			MFSK- 16/20Bd	(AB/MPJ)
XPA2	14438	19-11	1340	Sun	03548 00001 00000 10140			MFSK- 16/20Bd	(AB/MPJ/BvR)
XPA2	13427	20-11	0800	Mon	04186 00157 23805 ... 56954 89645 66601			MFSK- 16/20Bd	(AB)
XPA2	14627	20-11	0820	Mon	04186 00157 23805 ... 56954 89645 66601			MFSK- 16/20Bd	(AB)
XPA2	15827	20-11	0840	Mon	04186 00157 23805 ... 56954 89645 66601			MFSK- 16/20Bd	(AB)
XPA2	18238	21-11	1300	Tue	07999 00091 78697 ... 59345 02339 52702			MFSK-	(AB/MPJ)

								16/20Bd	
XPA2	16238	21-11	1320	Tue	07999 00091 78697 ... 59345 02339 52702			MFSK-16/20Bd	(AB/MPJ)
XPA2	14438	21-11	1340	Tue	07999 00091 78697 ... 59345 02339 52702			MFSK-16/20Bd	(AB/MPJ)
XPA2	13427	22-11	0800	Wed	04186 00157 23805 ... 56954 89645 66601			MFSK-16/20Bd	(AB)
XPA2	14627	22-11	0820	Wed	04186 00157 23805 ... 56954 89645 66601			MFSK-16/20Bd	(AB)
XPA2	15827	22-11	0840	Wed	04186 00157 23805 ... 56954 89645 66601			MFSK-16/20Bd	(AB)
XPA2	14517	24-11	0700	Fri	02899 00129 53673 ... 46484 77851 43067			MFSK-16/20Bd	(AB)
XPA2	16017	24-11	0720	Fri	02899 00129 53673 ... 46484 77851 43067			MFSK-16/20Bd	(AB)
XPA2	17417	24-11	0740	Fri	02899 00129 53673 ... 46484 77851 43067			MFSK-16/20Bd	(AB)
XPA2	17462	24-11	1400	Fri	04474 00001 00000 10140			MFSK-16/20Bd	(AB/GHn/MPJ)
XPA2	16114	24-11	1420	Fri	04474 00001 00000 10140			MFSK-16/20Bd	(AB/MPJ)
XPA2	14828	24-11	1440	Fri	04474 00001 00000 10140			MFSK-16/20Bd	(AB/MPJ)
XPA2	17462	25-11	1400	Sat	09495 00001 00000 10140			MFSK-16/20Bd	(AB-G/MPJ)
XPA2	16114	25-11	1420	Sat	09495 00001 00000 10140			MFSK-16/20Bd	(AB/MPJ)
XPA2	14828	25-11	1440	Sat	09495 00001 00000 10140			MFSK-16/20Bd	(AB/MPJ)
XPA2	18238	26-11	1300	Sun	07999 00091 78697 ... 59345 02339 52702			MFSK-16/20Bd	(AB/MPJ)
XPA2	16238	26-11	1320	Sun	07999 00091 78697 ... 59345 02339 52702			MFSK-16/20Bd	(AB/MPJ)
XPA2	14438	26-11	1340	Sun	07999 00091 78697 ... 59345 02339 52702			MFSK-16/20Bd	(AB/MPJ/BvR)
XPA2	13427	27-11	0800	Mon	03957 00201 83714 ... 82847 07833 65204			MFSK-16/20Bd	(AB)
XPA2	14627	27-11	0820	Mon	03957 00201 83714 ... 82847 07833 65204			MFSK-16/20Bd	(AB)
XPA2	15827	27-11	0840	Mon	03957 00201 83714 ... 82847 07833 65204			MFSK-16/20Bd	(AB)
XPA2	14517	28-11	0700	Tue	02378 00001 00000 10140			MFSK-16/20Bd	(AB)
XPA2	16017	28-11	0720	Tue	02378 00001 00000 10140			MFSK-16/20Bd	(AB)
XPA2	17417	28-11	0740	Tue	02378 00001 00000 10140			MFSK-16/20Bd	(AB)
XPA2	18238	28-11	1300	Tue	01442 00001 00000 10140			MFSK-16/20Bd	(AB/MPJ)
XPA2	16238	28-11	1320	Tue	01442 00001 00000 10140			MFSK-16/20Bd	(AB/MPJ)
XPA2	14438	28-11	1340	Tue	01442 00001 00000 10140			MFSK-16/20Bd	(AB/MPJ)
XPA2	13427	29-11	0800	Wed	03957 00201 83714 ... 82847 07833 65204			MFSK-16/20Bd	(AB)
XPA2	14627	29-11	0820	Wed	03957 00201 83714 ... 82847 07833 65204			MFSK-16/20Bd	(AB)
XPA2	15827	29-11	0840	Wed	03957 00201 83714 ... 82847 07833 65204			MFSK-16/20Bd	(AB)
XSL	4153	2-11	0704	Thu	Japanese Navy a.k.a. Slot Machine			QPSK	(AB-KOR)

							1500Bd	
XSL	4231.5	2-11	0704	Thu	Japanese Navy a.k.a. Slot Machine		QPSK	(AB-KOR)
							1500Bd	
XSL	4291	2-11	0704	Thu	Japanese Navy a.k.a. Slot Machine		QPSK	(AB-KOR)
							1500Bd	
XSL	6250	2-11	0704	Thu	Japanese Navy a.k.a. Slot Machine		QPSK	(AB-KOR)
							1500Bd	
XSL	6417	2-11	0704	Thu	Japanese Navy a.k.a. Slot Machine		QPSK	(AB-KOR)
							1500Bd	
XSL	6445	2-11	0704	Thu	Japanese Navy a.k.a. Slot Machine		QPSK	(AB-KOR)
							1500Bd	
XSL	8313	2-11	0704	Thu	Japanese Navy a.k.a. Slot Machine		QPSK	(AB-KOR)
							1500Bd	
XSL	8588	2-11	0704	Thu	Japanese Navy a.k.a. Slot Machine		QPSK	(AB-KOR)
							1500Bd	
XSL	8703.5	2-11	0704	Thu	Japanese Navy a.k.a. Slot Machine		QPSK	(AB-KOR)
							1500Bd	
XSL	4153	8-11	1554	Wed	Japanese Navy a.k.a. Slot Machine		QPSK	(AB-CHN)
							1500Bd	
XSL	4231.5	8-11	1554	Wed	Japanese Navy a.k.a. Slot Machine		QPSK	(AB-CHN)
							1500Bd	
XSL	4291	8-11	1554	Wed	Japanese Navy a.k.a. Slot Machine		QPSK	(AB-CHN)
							1500Bd	
XSL	6250	8-11	1554	Wed	Japanese Navy a.k.a. Slot Machine		QPSK	(AB-CHN)
							1500Bd	
XSL	6417	8-11	1554	Wed	Japanese Navy a.k.a. Slot Machine		QPSK	(AB-CHN)
							1500Bd	
XSL	6445	8-11	1554	Wed	Japanese Navy a.k.a. Slot Machine		QPSK	(AB-CHN)
							1500Bd	
XSL	8313	8-11	1554	Wed	Japanese Navy a.k.a. Slot Machine		QPSK	(AB-CHN)
							1500Bd	
XSL	8588	8-11	1554	Wed	Japanese Navy a.k.a. Slot Machine		QPSK	(AB-CHN)
							1500Bd	
XSL	8703.5	8-11	1554	Wed	Japanese Navy a.k.a. Slot Machine		QPSK	(AB-CHN)
							1500Bd	
XSL	4153	13-11	0603	Mon	Japanese Navy a.k.a. Slot Machine		QPSK	(AB-J)
							1500Bd	
XSL	4231.5	13-11	0603	Mon	Japanese Navy a.k.a. Slot Machine		QPSK	(AB-J)
							1500Bd	
XSL	4291	13-11	0603	Mon	Japanese Navy a.k.a. Slot Machine		QPSK	(AB-J)
							1500Bd	
XSL	6250	13-11	0603	Mon	Japanese Navy a.k.a. Slot Machine		QPSK	(AB-J)
							1500Bd	
XSL	6417	13-11	0603	Mon	Japanese Navy a.k.a. Slot Machine		QPSK	(AB-J)
							1500Bd	
XSL	6445	13-11	0603	Mon	Japanese Navy a.k.a. Slot Machine		QPSK	(AB-J)
							1500Bd	
XSL	8313	13-11	0603	Mon	Japanese Navy a.k.a. Slot Machine		QPSK	(AB-J)
							1500Bd	
XSL	8588	13-11	0603	Mon	Japanese Navy a.k.a. Slot Machine		QPSK	(AB-J)
							1500Bd	
XSL	8703.5	13-11	0603	Mon	Japanese Navy a.k.a. Slot Machine		QPSK	(AB-J)
							1500Bd	
XSL	4153	29-11	1322	Wed	Japanese Navy a.k.a. Slot Machine		QPSK	(AB-J)
							1500Bd	
XSL	4231.5	29-11	1322	Wed	Japanese Navy a.k.a. Slot Machine		QPSK	(AB-J)
							1500Bd	
XSL	4291	29-11	1322	Wed	Japanese Navy a.k.a. Slot Machine		QPSK	(AB-J)
							1500Bd	
XSL	6250	29-11	1322	Wed	Japanese Navy a.k.a. Slot Machine		QPSK	(AB-J)

							1500Bd	
XSL	6417	29-11	1322	Wed	Japanese Navy a.k.a. Slot Machine		QPSK	(AB-J)
							1500Bd	
XSL	6445	29-11	1322	Wed	Japanese Navy a.k.a. Slot Machine		QPSK	(AB-J)
							1500Bd	
XSL	8313	29-11	1322	Wed	Japanese Navy a.k.a. Slot Machine		QPSK	(AB-J)
							1500Bd	
XSL	8588	29-11	1322	Wed	Japanese Navy a.k.a. Slot Machine		QPSK	(AB-J)
							1500Bd	
XSL	8703.5	29-11	1322	Wed	Japanese Navy a.k.a. Slot Machine		QPSK	(AB-J)
							1500Bd	

CONTRIBUTORS

AB	Ary Boender, Netherlands	GHn	Gary Hagermann, UK
AB-AUT	Ary Boender via remote rx Austria	GR	Gary Russell, USA
AB-CHN	Ary Boender via remote rx China	HFD	Hans-Friedrich Dumrese, Germany
AB-G	Ary Boender via remote rx UK	HFD-KOR	Hans-Friedrich Dumrese via remote rx S. Korea
AB-GRC	Ary Boender via remote rx Greece	HFD-USA	Hans-Friedrich Dumrese via remote rx USA
AB-HK	Ary Boender via remote rx Hong Kong	HK	Hiroyuki Komatsubara, Japan
AB-HNG	Ary Boender via remote rx Hungary	HK-KOR	Hiroyuki Komatsubara via remote rx S. Korea
AB-I	Ary Boender via remote rx Italy	IKOPAV	Ben IKOPAV
AB-IRL	Ary Boender via remote rx in Ireland	JPL	JPL, Ontario, Canada (and various remotes)
AB-J	Ary Boender via remote rx Japan	JPL-CHN	JPL via remote rx China
AB-KOR	Ary Boender via remote rx South Korea	JPL-J	JPL via remote rx Japan
AB-PHL	Ary Boender via remote rx Philippines	JPL-KOR	JPL via remote rx South Korea
AB-POL	Ary Boender via remorx Poland	JPL-NOR	JPL via remote rx Norway
AB-RUS	Ary Boender via remote rx Russia	JPL-Sib	JPL via remote rx Siberia
AB-Sib	Ary Boender via remote rx Siberia	JU	Jay Updike, W. Europe
AB-UKR	Ary Boender via remote rx Ukraine	K3DCW	Dave Wright, MD, USA
AB-USA	Ary Boender via remote rx USA	MCO	Mike Chace-Ortiz, PA, USA
AnEur	Anonymous Europe	MDK2	MDK2, USA
Avare	Avare, Russia	MPJ	Jim, SW England
Benka	Benka	MPJ-AUT	Jim via remote rx Austria
BvR	Bert van Rij, Netherlands	MPJ-HNG	Jim via remote rx Hungary
BW3	Barry Williams, AL, USA	MPJ-HOL	Jim via remote rx Netherlands
ChPa	Christer, Sweden	MPJ-I	Jim via remote rx Italy
CM2	Chris Malboef	Phi	Philby
CM2-J	Chris Malboef via remote rx Japan	Phi-J	Philby via remote rx Japan
Dan	Daniel, Argentina	PY	Pierre Ynard, France
Danix	Danix111, Poland	qsr711	QSR711
Danix-USA	Danix via remote rx USA	RL	Landolpho, Brazil
dmhz	DoktorMHz	RP2	Ronny Peeters, Belgium
dmhz-ISR	DoktorMHz via remote rx Israel	Sha	shadypyro
DSch	Don Schimmel, WV, USA	skx	skeezix, MN, USA
ES	Edward Smith, UK	SP1	Sylvain, France
ES-HOL	Edward Smith via remote rx Netherlands	Token	TI, CA, USA
ES-I	Edward Smith via remote rx Italy	w.obi	w.obi
ES-RUS	Edward Smith via remote rx Russia	WV	Wim Verloop, Netherlands
EW	Eddy Waters, Australia		

APPENDIX

DXtreme Monitor Log 11™

Schedule Checker - Displaying Aoki Schedule For 1919 UTC

File Cross_Reference Tools Help SFI: 72 Ap: 4 Kp: 3 Updated: 19:30:00

ALL INDIA RADIO (9445): Short Path 28° (Long Path 208°) DX 6170.68 nm

Freq	Start	End	Days	Country	Code	Station	Language	Dir	Site	Power	Latitude	Longitude
9445	1745	1945	1234567	India	IND	ALL INDIA RADIO	English	245	Delhi (Khampur)	250	28.83333	77.15

Station Data

Class: SWBC Station: All India Radio With: []

Shortwave Broadcast Tx Site: Delhi S/P: [] ITU Zone 41

Country: India IND Asia B-Dx: 28° 6178.15 nm Keep []

Frequency, Band, and Mode

Freq: 9445 Mode: AM

MB: 32 WL: 31.76 Amplitude Modulation

Date and Time

Date: 07/01/2017 Time Start: 19:19 End: 19:45

Equipment Used

Rig: IC-7700 Icom IC-7700 Transceiver

Ant: Random Random-Length Wire

Acc: ATR-30 Ameritron ATR-30 ATU

Signal Quality and Audio Social Media Post Direct Tune

Report: 45444 Prop: F2 SFI: 72 Ap: 4 F2 Kp: 3

Remarks: Nice signal especially with such a poor forecast!

File: all india.wav

Last 250 Log Entries By Date and Start Time Descending

Date	Start	Freq	Mode	Class	Station	Country	Tx Site
07/01/2017	19:19	9445	AM	SWBC	All India Radio	India	Delhi
06/27/2017	16:34	15180	AM	SWBC	Voice Of America	Vatican City	Santa Maria di Galer
06/25/2017	20:31	11580	MFSK32	SWBC	Shortwave Radiogram	United States of America	Okeechobee
06/18/2017	19:30	15670	MFSK32	SWBC	VOA Radiogram	United States of America	Greenville
06/17/2017	21:30	13031.2	STANAG 4285	UTE	FUF French Navy Station	Martinique	Fort de France
06/13/2017	22:06	13031.3	STANAG 4285	UTE	FUF French Navy Station	Martinique	Fort de France
06/05/2017	20:50	14070	PSK31	Ham	OZ1GEJ	Denmark	Tistrup
05/31/2017	17:58	14076	IT65A	Ham	KS4OT	United States of America	Fatonton

Perform Monitor Log processing. Jul 01 2017 19:45:38

DXtreme Software™ has released a new version of its popular logging program for radio monitoring enthusiasts: **DXtreme Monitor Log 11**.

Monitor Log 11 lets listeners and DXers log the stations they've heard using advanced features that can enhance their monitoring experience.

Finding Broadcast Stations to Monitor

The Schedule Checker™ lets users import schedules from Aoki, EiBi, and FCC AM web sites and display schedule data according to the filter criteria they specify. A list box lets users switch between schedule types, and depending on the schedule type selected, users can filter schedule information by band, frequency, station, country, city, state, time of day, language, antenna direction, and target area.

When the What's On Now? function is activated, the schedule refreshes automatically at the top of each hour for Aoki and EiBi schedules.

For each schedule item, Schedule Checker queries the Monitor Log 11 database to let users know – through user-defined, foreground and background display colors – whether they need to monitor a station for a brand-new or verified country. Schedule Checker also displays bearing and distance, runs optional Afreet Ham CAP1 propagation predictions, draws optional Afreet DX Atlas2 azimuth plots, tunes supported radios to schedule frequencies when users double-click schedule items 3 4 5,

and starts log entries for scheduled stations monitored.

Finding Amateur Radio Stations to Monitor

Monitor Log 11 integrates with optional Afreet Band Master6 to let users see, on its graphical interface, where hams are operating. Monitor Log 11 supplies Band Master with an Entity Needed List based on the user's Monitor Log database, making it possible for Band Master to indicate the stations whose entities (countries) users need to monitor. When invoking Band Master, users can select an Entity Needed List for all bands or individually for the 160- through 6-Meter bands.

Finding Utility Stations to Monitor

A Links menu provides convenient access to user-specified blogs and web sites that can inform users as to where utility and other stations may be operating.

Logging Stations

Monitor Log 11 lets users log all kinds of stations — radio stations, television stations, broadcast stations, Amateur Radio stations, utility stations, military stations, and more! And it lets them log stations across the radio spectrum — from long wave, to medium wave, to short wave, and beyond.

The Last Log Entries Grid on the Monitor Log window shows up to 5000 of the most recent log entries added. Its records can be sorted, and double-clicking records displays detailed data on the Monitor Log window. Users can resize the grid columns and scroll horizontally to columns that do not appear initially. And because the names of stations and NASWA countries can be quite long, users can also display a larger, resizable Last Log Entries window. A Properties window lets users change the order of columns, the number of log entries to display, and the font and color attributes of grids and other program components, such as the Content Editor for describing the content monitored, the Script Editor for creating and editing scripts, the Direct Tune interface for tuning radios, and the Comments tab for typing ad hoc comments.²

Reporting Reception

Users can create customized paper and e-mail reception reports for sending to stations plus club report entries for reporting catches to clubs and magazines. When users add or display a log entry, Monitor Log 11 prepares a post announcing their DX catch and displays it on the Social Media Post tab. From there, users can drag the post to their favorite social media web sites to share their catch with others.

Using the Script Editor window, users can create and edit scripts that format reception reports, eReports, and social media posts to their liking. The software prompts users to select the script they want to use. Dozens of scripts come with Monitor Log 11.

Users can also print SWL and Address labels on industry-standard label stock, and send eQSL requests to hams automatically through the popular www.eQSL.cc site.

Imaging

Improv Imaging™ lets users associate ad hoc images with log entries using Capture, Scan, and Clipboard functions. Captures of stations received on digital applications, waterfall displays, facsimile and Amateur TV pictures are popular. The Improv Imaging tab and Application let users view images anytime, and an Improv Image Explorer lets them peruse their entire collection and display associated log entries.

QSL Imaging™ functions the same as Improv Imaging, but specializes in associating QSL cards and eQSLs with log entries.

Other Features

Rig Control — Retrieves the frequency and mode from supported radios and permits tuning from the Schedule Checker and Direct Tune interface. Rig control is provided through integration with Afreet Omni-Rig and the SDR applications listed on our web site, currently HSDR4 (High Definition Software Defined Radio) and SDR Console5.

Audio Archiving — An embedded Audio facility lets users maintain an audio archive of stations heard.

Reporting — Produces Performance, Stations, and Log Entry reports that track the performance and progress of the user's monitoring station. The software lets users FTP those reports to user-provided Web space for remote access. Some reports integrate with Afreet DX Atlas to generate pin maps.

Documentation — Context-sensitive Procedural Help, Field Help, and Microhelp are accessible per window to provide instructions quickly. A web-based Information Center is accessible from the Help menu for late-breaking assistance, and Installation Instructions and a Getting Started Guide are delivered in PDF format with the software.

Operating Systems, Pricing, Contact Information

DXtreme Monitor Log 11 runs in 32- and 64-bit versions of Microsoft® Windows® 10, 8.1, 8, 7, Vista®, and XP. It retails for \$89.99 USD worldwide for electronic distribution.

Pricing for CD versions and upgrading users is available on our Web site. All prices include product support by Internet e-mail. For more information, visit www.dxtreme.com or contact Bob Raymond at bobraymond@dxtreme.com

- 1 — Licenses for Afreet Ham CAP and Omni-Rig are required to use Ham CAP.
- 2 — A license for Afreet DX Atlas is required to perform plots and create pin reports.
- 3 — A license for Afreet Omni-Rig is required to use rig control with radios supported by Omni-Rig.
- 4 — Can be used for rig control. HSDR is owned by Mario Taelubel. Refer to <http://www.hdsdr.de/index.html> for more information.
- 5 — Can be used for rig control. SDR Console is owned by Simon Brown, G4ELI. Refer to <http://www.sdr-radio.com> for more information.
- 6 — A license for Afreet Band Master is required to use Band Master.

All information in this newsletter was submitted by independent radio monitors or has been obtained from public available sources and public sites on the web. Wherever data was obtained via the web or elsewhere, references and/or links to these sources have been noted.

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Relevant mailing lists and websites:

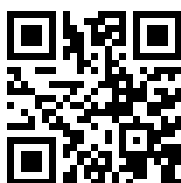
- NUMBERS & ODDITIES** <http://www.numbersoddities.nl>
- SPY NUMBERS ONLINE DATABASE** <http://www.spynumbers.com/numbersDB>
- UDXF - UTILITY DXERS FORUM** <http://www.udxf.nl>
- HF UNDERGROUND** <http://www.hfunderground.com/board/>
- PRIYOM** <http://priyom.org/>

To become an UDXF member go to <https://groups.io/g/UDXF> and follow the instructions.

To become a Spooks member go to <http://mailman.qth.net/mailman/listinfo/spooks> fill in the form and follow the instructions that will be mailed to you.

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048 07884 92636 89428 81286 10480 78879 72248 81270 00
049 80932 78987 22128 80817 26385 81287 65981 87264 81
101 75654 55656 12737 72727 72727 91918 63973 67867 76
203 87629 37677 22652 53898 71296 28756 18276 98716 81
269 78329 74698 78857 98878 27881 56791 57681 73648 17
091 87388 87285 96750 27630 12673 86789 28743 98127 00
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07 67482 74328 78674 29867 32867 67867 86786 83298 80
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070 86743 86743 86743 86743 86743 86743 86743 86743 43
08 98798 98754 98754 98754 98754 29867 67543 67988 80
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