

6	27364	92836	89428	61208	71282	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
1	87364	87265	96710	27630	12673	84769	28743	98127	2
8	63298	75698	27465	87326	49876	28376	81273	98615	
7	87432	74328	78674	29867	32867	67867	86786	43286	80
17	68768	68763	34234	34238	68768	62342	48273	48768	2
26	98432	32432	86743	43286	43286	43286	43286	43286	40
43	86743	86743	39867	32867	86743	43286	43286	43243	86
18	86743	86743	86743	86743	86743	86743	86743	86743	2
99	98798	98754	98754	98754	98754	29867	67543	67986	8
10	87698	69876	87698	69876	87612	12341	34867	86798	6
	43298	65656	56756	56123	32143	14321	32143	14321	30
	58765	58765	76587	58765	76587	58765	76587	58756	24

Numbers & Oddities

a.k.a. The Spooks Newsletter

Edition #238, July 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

Welcome to the revamped 238th edition of Numbers & Oddities. No big changes though; just some cosmetic changes. As always you will find complete messages and info in the various sections and all the logs, sorted on code/date/time in the Logs Section. We hope that you like it. F06 was very busy sending lots of exercise messages. We also have a lot of North Korean diplo logs copied by Danix and Ary. In the Appendix you will find an item about X06 written by the X06-team.

Priyom published two interesting blogs written by linkfanel.

- **KiwiSDR: tuning into new numbers stations**
<http://priyom.org/blog/kiwisdr-tuning-into-new-numbers-stations>
- **KiwiSDR: locating numbers stations and field agents**
<http://priyom.org/blog/kiwisdr-locating-numbers-stations-and-field-agents>

VOICE STATIONS

E06

14845 kHz, 06-07, 0300 UTC

12189 kHz, 06-07, 0400 UTC

361 582 30

87666 47887 67208 39012 19540 82411 86220 19062 09884 10270

34640 48878 08019 98457 24369 47619 82953 33103 66486 47894

58849 15550 45432 35458 57224 92143 61656 31184 50590 41136

582 30 00000

13825 kHz, 06-07/07-07, 0500 UTC

15615 kHz, 06-07/07-07, 0600 UTC

679 384 51

65386 53598 47080 48679 13099 69747 12539 83439 43684 03719

73456 72526 57596 45644 94815 87501 20927 42371 67769 43680

82984 79079 86445 27882 33799 60591 23278 18861 25023 09589

88818 30094 02633 23905 86956 29626 24896 60088 01479 16651

64025 35421 74927 59516 14957 65586 65671 24846 59707 80162

94139

384 51 00000

5731 kHz, 07-07/21-07, 2130 UTC

315 149 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

21-07: Windows shutdown sound after the transmission

13827 kHz, 18-07, 0300 UTC

537 961 48

71849 15545 04011 89581 25067 22814 48892 79855 71687 11737

20576 03364 13392 84645 76311 76813 61047 57771 78745 93355

54989 30410 90470 64078 16257 10861 42502 69132 45977 81597

06369 36930 15085 16698 24497 14836 11553 86763 78591 29808

37337 12388 00689 62416 72210 52084 56573 82672

961 48 00000

13825 kHz, 20-07, 0500 UTC

15615 kHz, 20-07, 0600 UTC

679 438 51

69587 73058 61027 73486 21627 30454 34669 78431 47134 47354

93217 77653 56790 69126 98355 38757 59590 20611 48566 70620

57225 21757 76102 01978 05743 39700 26078 70646 30438 06937

66134 15587 04895 60313 00104 18981 30133 80492 84115 30517

74790 36608 68584 71072 62268 65764 14513 07975 15800 42109

57544

438 51 00000

5890 kHz, 20-07, 1300 UTC

E06 instead of G06: 329 329 329 00000

Windows shutdown sound

E06b

10755 kHz, 12-07, 0932 UTC, i.p. Stopped and restarted ay 0938 UTC

975 84848 642 30

22089 07937 18475 07081 01785 19138 77459 13675 76987 25756

60731 66796 55605 29902 66721 72930 16722 35269 30266 63173

75359 89696 29219 95029 35232 67691 90767 52751 34175 16313

642 30 00000

E07

13898/12198/10798 kHz, 02-07, 1700/1720/1740 UTC

817 817 817 1 497 122 497 122

66539 33715 06484 10119 13454 33508 24567 54743 58117 65910

20050 39119 19713 38775 52998 77437 44456 40949 02862 14629

48544 98059 25042 54531 94509 68056 89210 78053 52870 89845

83031 02660 04740 08162 24034 26443 67676 84784 84577 09850

10827 16163 51866 97097 86880 58389 33861 62113 17006 87194

69960 00950 48290 31414 50178 73720 76584 91243 55257 72274

53590 53624 20570 60872 24769 21873 75221 20974 25472 04344

01139 60582 55770 53057 98240 56472 52507 95174 09503 37640

78816 47472 63029 48611 50410 59634 97531 33989 41875 83660

75306 76608 49139 74890 29411 80092 68468 78972 25025 52459

53828 62456 51686 42095 09159 53405 91029 32161 40817 72567

99116 99222 65553 16500 85769 91353 19421 64627 98764 11885

56163 43677

000 000

1700 UTC transmission: stopped and restarted at 1705 UTC

16263/14763/13363 kHz, 03-07/05-07, 1900/1920/1940 UTC

273 273 273 1 696 91 696 91

90711 07600 80771 95094 02157 03015 84637 65123 10426 39102

88043 76443 80850 48686 87767 01955 64035 92450 53385 85041

84051 89194 16767 77151 28340 87422 08335 60506 08568 14027

27361 93126 30733 86574 57843 95583 76147 56635 20079 68464

61215 95105 57691 42663 68736 23464 78156 89270 40445 47736

08473 28557 12197 97872 23523 51645 33462 09450 82216 06378

90398 85259 95753 44157 66846 51888 29045 26267 37864 63422

02068 46558 25894 17007 42367 23500 44986 82594 14452 36170

87226 42108 99920 67133 31888 15595 76562 61833 47957 95125

76874

000 000

13898/12198/10798 kHz, 05-07, 1700/1727/1753 UTC
Double message. The 2nd message is a repeat of 2 July

817 817 817 2 283 55 283 55
56134 45300 14132 03199 27235 18939 70744 34281 20911 42093
49932 90203 24115 85841 58244 16821 58744 09364 62467 18395
98223 02196 01985 11872 71834 52091 67486 85193 67330 75962
71895 64323 40962 09221 34563 70670 68084 93194 97978 38808
01445 99566 71048 71707 84622 52200 51894 22574 38895 77619
01365 62550 26861 67798 77204

817 817 817 2 497 122 497 122
66539 33715 06484 10119 13454 33508 24567 54743 58117 65910
20050 39119 19713 38775 52998 77437 44456 40949 02862 14629
48544 98059 25042 54531 94509 68056 89210 78053 52870 89845
83031 02660 04740 08162 24034 26443 67676 84784 84577 09850
10827 16163 51866 97097 86880 58389 33861 62113 17006 87194
69960 00950 48290 31414 50178 73720 76584 91243 55257 72274
53590 53624 20570 60872 24769 21873 75221 20974 25472 04344
01139 60582 55770 53057 98240 56472 52507 95174 09503 37640
78816 47472 63029 48611 50410 59634 97531 33989 41875 83660
75306 76608 49139 74890 29411 80092 68468 78972 25025 52459
53828 62456 51686 42095 09159 53405 91029 32161 40817 72567
99116 99222 65553 16500 85769 91353 19421 64627 98764 11885
56163 43677
000 000

11539/10547/9388 kHz, 06-07/13-07, 2010/2030/2050 UTC

553 553 553 1 458 73 458 73
47700 22888 06742 58700 25147 51800 12530 12326 82550 61428
92069 63262 00042 53820 85453 96123 43752 72881 52871 75821
47514 45974 93705 89186 75041 79301 40586 50914 46357 29177
92680 47562 03918 68371 29850 54949 40603 36823 65283 64209
93290 65483 67913 74339 19053 96919 65288 07742 63002 88330
14579 29688 28783 57854 44161 38785 51772 44043 20353 60458
85998 00129 83848 91431 86550 53433 20019 01327 27727 18930
09846 21339 15380
000 000

9064/10264/11464 kHz, 08-07/09-07/15-07/16-07, 0600/0620/0640 UTC

024 024 024 1 327 74 327 74
53499 69083 99014 02746 34169 64007 22629 86036 60778 46508
93865 46678 12691 32182 57791 19907 85825 84233 55377 69979
62314 38718 12399 58439 77440 23323 39704 18059 15642 72907
41770 21250 22246 06961 32215 67275 56811 29144 61829 68668
09112 61685 73354 26935 29075 39773 70296 82562 82959 80051
47567 18946 83573 10294 25053 26409 63613 18095 09969 81476
56769 42509 04524 05112 27969 02081 44339 23455 58112 12921
22626 64904 97340 57842
000 000

13898/12198/10798 kHz, 09-07/12-07, 1700/1727/1753 UTC

817 817 817 1 216 74 216 74
93766 33251 13037 12572 88652 55886 98258 89348 15106 33611
19565 27013 74146 28510 17209 35279 05529 77736 57360 77723
66928 54110 11248 58749 29028 43280 15320 05826 58360 29564
91723 50523 42039 01470 64884 79855 91439 82088 52268 20543
29591 21063 02795 02059 93209 54709 36721 82113 18021 81775
82168 39800 77520 51728 37579 37856 25723 77732 72233 13852
43079 92134 27791 27368 41283 22001 18035 86674 15628 56344
79203 58493 21407 28415
000 000

16263/14763/13363 kHz, 10-07/12-07, 1900/1920/1940 UTC

273 273 273 1 696 91 696 91
90711 07600 80771 95094 02157 03015 84637 65123 10426 39102
88043 76443 80850 48686 87767 01955 64035 92450 53385 85041
84051 89194 16767 77151 28340 87422 08335 60506 08568 14027
27361 93126 30733 86574 57843 95583 76147 56635 20079 68464
61215 95105 57691 42663 68736 23464 78156 89270 40445 47736
08473 28557 12197 97872 23523 51645 33462 09450 82216 06378
90398 85259 95753 44157 66846 51888 29045 26267 37864 63422
02068 46558 25894 17007 42367 23500 44986 82594 14452 36170
87226 42108 99920 67133 31888 15595 76562 61833 47957 95125
76874
000 000

19252/17452/16252 kHz, 11-07/14-07, 1100/1120/1140 UTC

242 242 242 1 7936 117 7936 117
61504 57838 27192 00614 04116 89321 45623 41478 20357 58296
64760 67838 44126 57060 36277 55525 78830 22278 89486 39993
72738 10100 83815 56128 64935 64413 80394 08294 20695 80618
67950 65212 09228 69467 59309 27944 17735 53468 11874 30593
40874 93156 47448 64865 63224 76674 21557 60427 04164 95429
59910 60572 72943 63788 11736 94105 75964 95863 06475 43479
89974 09388 71560 46750 95151 59478 79183 29889 77260 05596
27325 07378 40922 38034 26987 54820 28681 64913 15703 36127
04026 75850 77468 63698 99398 85846 06943 95147 85399 73677
88064 70379 65710 49354 39054 61813 58463 33170 86768 06533
36086 02692 73073 50743 44926 09032 61926 24521 85466 01365
45891 15470 06484 25319 48474 16421 21556
000 000

13898/12198/10798 kHz, 16-07/19-07/23-07/26-07, 1700/1720/1740 UTC

817 817 817 1 506 71 506 71
55706 29983 14200 05425 61132 57988 82903 19804 75169 34549
56681 22377 07994 45742 70466 91074 12705 74777 94152 21788
12899 32156 14225 06901 16862 72808 20749 24748 62573 04685
86809 46261 32906 95999 82563 23403 30420 91936 14636 46091
23076 00596 44793 94868 02098 48762 73809 74809 86050 30662
73218 40652 35266 92723 13739 29118 03665 67284 71630 62616
20489 03872 40519 55302 75041 64660 91420 19142 94888 62473
20966
000 000

9064/10264/11464 kHz, 22-07/23-07/29-07/30-07, 0600/0620/0640 UTC

024 024 024 1 533 47 533 47

41959 25950 28142 26801 78261 18058 26754 65003 16632 82143
53893 24341 39152 45601 20897 26089 81661 86987 90650 86915
86433 84297 59999 05848 14770 12645 88666 20496 60118 43512
91550 06622 41658 99618 38253 72976 74852 21848 56244 82993
30849 52308 35316 34545 32850 62317 32632
000 000

19252/17452/16252 kHz, 25-07/28-07, 1100/1120/1140 UTC

242 242 242 1 2076 167 2076 167

46581 20833 82778 66137 12545 33073 87106 15934 49708 62666
69521 50933 86795 14868 95881 65778 81176 91613 85905 87587
79744 89019 59673 23982 85585 63557 96259 51803 33438 08615
33311 80047 72582 98215 31895 69569 51747 55246 37670 41470
78017 72338 82409 24294 09790 90233 11463 45659 92008 33977
79015 58506 70858 69609 01794 77916 79179 87634 82983 37463
55874 04099 65084 59906 86189 14528 96143 50906 25486 23375
93434 89382 31448 04321 75790 24351 70628 87404 41096 21675
16106 73622 20846 78072 79915 76451 72277 11772 97578 04306
25239 57892 73900 89467 22976 26688 33899 99115 74129 52012
65881 31247 07867 25780 30852 23429 45958 43123 45888 52898
77355 53121 91960 10435 25201 97548 68634 43390 20568 61681
47606 07552 83708 66307 56502 35750 11054 17942 12869 69042
12603 89424 98811 08486 72079 42176 91401 42236 26044 72418
93890 41414 06087 67752 24927 39785 29090 00803 26767 36387
72731 95647 18745 97076 86315 01588 99877 27692 97382 96546
76124 35432 61133 04261 00442 11279 26092
000 000

11539/10547/9388 kHz, 27-07, 2010/2030/2050 UTC

553 553 553 1 778 87 778 87

50284 56513 67185 78852 72123 66812 69215 79513 45600 10276
13379 34244 91672 80576 19915 57969 53600 57052 44530 44889
82544 46723 63443 57337 00534 73181 73260 34309 05494 72518
19815 56894 90263 11168 18444 44879 69614 59052 14369 53334
71945 15335 58973 75714 42277 37275 10503 15727 55884 87866
33168 88234 20463 11059 59819 01859 76384 40883 73342 07750
35366 09009 48208 28820 71023 95237 54305 28809 85375 34674
50261 28275 82411 81605 61499 72750 84354 21802 84864 17300
30074 44160 37768 97000 34444 27249 46222
000 000

E07a

12166/10766/9266 kHz, 12-07, 2000/2020/2040 UTC

172 172 172 1 65248 8960 31 8960 31

15657 12373 56594 86782 59776 37446 68648 85412 93928 23836
28528 20821 11831 53977 36347 08161 33930 98923 11513 03290
89819 00074 50316 43287 00515 65592 76106 58287 80927 39280
63523
000 000

7933/9133/10233 kHz, 13-07, 0430/0450/0510 UTC

912 912 912 1 65248 8960 31 8960 31

15657 12373 56594 86782 59776 37446 68648 85412 93928 23836
28528 20821 11831 53977 36347 08161 33930 98923 11513 03290
89819 00074 50316 43287 00515 65592 76106 58287 80927 39280
63523
000 000

E11a

9130 kHz, 01-07/02-07, 2005 UTC

360/40 Attention

32134 46669 69681 83835 78578 72513 09561 56862 58801 89992
34257 84556 54438 12051 00075 33068 40386 12107 86075 01796
46995 61534 12519 98794 54249 98861 44228 54360 12499 18574
41762 89145 63708 65643 59152 31678 10013 73754 71242 12004
Attention, rpt msg, out

9079 kHz, 02-07, 0805 UTC

313/32 Attention

40399 10169 03847 07064 95140 20551 86577 97200 75597 18051
88063 94486 87179 45652 54578 25459 07831 04953 53459 75740
63791 35812 06651 35388 06194 62011 15259 66359 10472 48915
49569 56193
Attention, rpt msg, out

13537 kHz, 03-07/07-07, 1225 UTC

525/34 Attention

73409 12154 89221 40978 13455 16634 28246 20030 66979 79400
60098 46681 65432 23901 55173 95382 98775 96234 88420 60168
36910 11656 39536 03689 98373 85840 08652 19195 22146 50981
01317 88603 77001 54064
Attention, rpt msg, out

14410 kHz, 03-07/09-07, 1745 UTC

245/40 Attention

68943 44787 98374 48111 99461 46167 02326 15970 32536 00704
35637 73154 49258 46125 40700 81758 02173 44902 58648 16219
22172 02046 06318 12288 52191 69902 48217 56188 15761 74780
36328 94645 51999 33288 41053 09526 21975 89010 35431 42097
Attention, rpt msg, out

13911 kHz, 04-07, 0820 UTC

132/35 Attention

81639 62862 51179 25088 60014 12925 55839 86901 70268 05136
43418 31375 68218 47162 51275 98738 57222 68482 63166 84297
26641 19241 38601 37959 79975 99170 01341 96610 67245 42695
10713 80478 88035 33291 72453
Attention, rpt msg, out

12397 kHz, 04-07/07-07, 1000 UTC

300/26 Attention

78744 70447 26060 48356 76984 46734 99101 40183 88440 45320
65950 59426 65463 31242 23220 57677 55706 33975 28753 50242
80458 15975 22991 54087 86009 16080
Attention, rpt msg, out

11581 kHz, 04-07/06-07, 1925 UTC

553/39 Attention

52663 07072 23414 36820 24005 16308 51442 37783 84606 36707
19657 67955 50060 75012 98338 58521 33641 92188 85921 91256
03644 87912 22014 85339 26308 61954 90192 65166 59660 25270
56443 45459 88131 86382 51115 93082 16217 77753 77741
Attention, rpt msg, out

15720 kHz, 05-07/07-07, 0745 UTC

340/32 Attention

01751 80675 57359 06232 72241 32951 64196 56709 18799 36758
91462 46405 03545 23100 86630 77120 53829 27421 73392 81705
64308 28904 40214 00616 40175 79212 78989 32402 60250 93623
62759 25142

Attention, rpt msg,out

15795 kHz, 05-07/09-7, 1625 UTC

977/32 Attention

01700 50764 01740 32887 22028 42353 09878 83681 46767 19247
54771 10060 33974 52132 98827 69863 58266 10669 56812 73590
58582 02214 61437 43684 03459 52548 66833 67221 45611 02508
91215 90886

Attention, rpt msg, out

15800 kHz, 07-07/10-07, 0600 UTC

189/35 Attention

95004 91656 41560 28346 41484 30642 44587 10944 84302 66837
23988 05274 10547 55630 81040 29879 26811 87525 86690 11225
07704 04568 45878 56474 67078 73307 10978 52098 06103 35685
51871 21827 84921 11228 60995

Attention, rpt msg, out

7600 kHz, 10-07/13-07, 0530 UTC

641/33 Attention

49814 53682 89575 50637 49998 49310 97928 42189 68194 26219
52212 91881 72420 76877 00846 60547 03235 47498 90507 32657
88175 71745 69095 97037 29521 03249 31804 25279 85908 75481
47210 80070 28763

Attention, rpt msg, out

9610 kHz, 10-07, 0745 UTC / 10356 kHz, 13-07, 1530 UTC

262/33 Attention

74583 44548 05984 23765 98612 84718 88289 77486 16868 47705
92977 41628 29756 47114 43403 36960 22008 44748 24721 21152
52945 96315 98840 13677 08399 59562 27650 91310 01279 20407
59792 96321 87535

Attention, rpt msg, out

10429 kHz, 11-07/14-07, 0710 UTC

636/31 Attention

55931 47299 04042 04941 09794 69536 92287 32718 09841 62249
12733 04533 24223 95124 84932 08781 99904 73873 71724 92941
36012 51672 12664 14526 01249 29136 45439 58103 46582 90373
34256

Attention, rpt msg, out

6304 kHz, 12-07/13-07, 0930 UTC

273/33 Attention

25693 30912 51502 49429 78335 01997 70889 98527 34563 08382
81079 95219 40923 71398 99804 43666 83713 73378 16834 09536
59724 61696 75486 49842 96057 97500 05906 15447 48180 34828
02809 96529 21985

Attention, rpt msg, out

6480 kHz, 15-07/16-07, 0710 UTC

498/31 Attention

05837 71218 85607 77281 91046 93550 53309 70265 82178 41769
23256 65369 96735 13141 40735 67092 30835 30585 02327 35858
35162 94942 50228 69120 47078 19088 44413 19687 61186 49266
21994

Attention, rpt msg, out

7984 kHz, 15-07, 1730 UTC

403/31 Attention

22984 65960 07900 33078 94841 05819 74790 89298 90706 03504
39834 61897 28760 15322 57055 66930 78894 65485 26980 60518
85457 79627 42150 13563 02975 91049 42204 43248 12601 07073
07525

Attention, rpt msg, out

15800 kHz, 17-07/18-07, 0640 UTC

942/20 Attention

61833 55718 94994 05957 89927 56157 58815 25698 49848 43835
39700 53171 19266 07101 70607 19739 58645 03483 14718 35168

Attention, rpt msg, out

13873 kHz, 18-07, 1045 UTC / 8530 kHz, 21-07, 2000 UTC

571/35 Attention

10714 60356 68797 27295 67727 81287 93878 55426 06461 38649
75567 87779 06868 04703 13844 61419 51564 88286 24006 25343
16682 45541 10670 59223 09478 13786 33769 63532 54810 04908
75260 06334 35738 42446 67320

Attention, rpt msg, out

15825 kHz, 18-07/22-07, 1345 UTC

912/40 Attention

07892 58736 94266 16432 17099 39299 36224 87571 89184 17528
95604 18101 19805 66233 83129 09317 01474 57831 86503 65835
99167 96930 11439 10445 69162 28543 72779 19368 72175 89972
28100 26175 15073 47811 47524 71296 11520 82033 86572 30086

Attention, rpt msg, out

14575 kHz, 18-07/20-07, 1645 UTC

330/32 Attention

10898 83573 34923 45017 69433 29316 17000 50585 47467 65584
92684 62524 41137 47198 56536 16491 83664 70417 50103 68302
28325 80539 08595 43296 10711 60561 83020 52904 18481 66483
19147 07679

Attention, rpt msg, out

7469 kHz, 24-07, 0450 UTC / 8088 kHz, 27-07, 1730 UTC

411/40 Attention

88073 56038 27176 95951 41815 78198 65831 83646 16663 39986
87555 48132 87165 10841 45843 95258 32187 79714 39876 78236
68738 77801 84966 81087 01273 98454 71187 89114 90238 02970
05398 04657 78291 37961 24736 61456 07868 11125 65696 43496

Attention, rpt msg, out

6280 kHz, 24-07/27-07, 0820 UTC

434/31 Attention

20079 12133 75806 82274 86258 89368 89447 60619 19463 29745
52830 87837 20174 58840 88547 60044 61424 09818 97561 25273
66131 75486 83982 35460 51181 18817 63557 96581 92320 31620
96253

Attention, rpt msg, out

13427 kHz, 24-07, 0900 UTC

535/33 Attention

98300 81093 07640 68491 88106 29867 69735 16621 79230 45955
62043 46836 63433 89806 94230 81656 19627 53540 22630 29522
93868 17476 21588 53682 86794 36252 84872 41969 28045 78611
65950 67753 59803

Attention, rpt msg, out

13424 kHz, 25-07/27-07, 0645 UTC

514/39 Attention

86538 10919 08922 93085 44085 99740 60195 11532 09421 25366
44771 65432 39151 03667 52036 32090 02837 35875 19184 77939
57835 19396 40643 16615 31534 39061 82053 91897 12172 92036
34674 60645 43541 19248 97150 50718 49217 91273 34149

Attention, rpt msg, out

6304 kHz, 25-07/26-07, 1205 UTC

463/37 Attention

28223 44855 40429 52642 28417 06540 19766 29660 97441 76067
18359 53511 77862 61922 13062 20658 52489 52738 68829 93008
21589 50756 58409 39161 06184 43335 40055 90534 85493 66161
20360 78384 38343 46291 48116 35671 56966

Attention, rpt msg, out

14865 kHz, 26-07, 1705 UTC

391/31 Attention

63421 20124 92306 72709 22763 25973 00987 40106 86015 73438
07602 96509 43645 41126 29007 41481 06647 98090 26706 67170
22838 68022 00054 78194 81275 91060 17849 86796 30306 86097
26046

Attention, rpt msg, out

11581 kHz, 27-07/29-07, 1300 UTC

586/33 Attention

81416 93529 16412 73636 75543 63763 20067 99887 87681 35356
75556 67753 51067 78434 38061 41030 34203 57310 31395 37200
33514 77168 81099 90662 65624 76961 20910 87480 66814 97268
92452 16391 02189

Attention, rpt msg, out

E17z

16780/12850 kHz, 06-07/13-07, 0800/0810 UTC

674 901 5 09394 76911 75155 92918 97067 901 5 00000

16780/12850 kHz, 20-07/27-07, 0800/0810 UTC

674 238 5 36973 37967 89762 42149 46198 238 5 00000

6140 kHz, 07-07, 0759 UTC

Windows sounds

012 012 012 012 012

Message, message, message

8007 7121 4583 7452 3687 1727 8714 7345

Rebeat, rebat, rebat

8007 7121 4583 7452 3687 1727 8714 7345

End of message. End of transmission

6140 kHz, 11-07, 0930 UTC

333 333 333 333 333

Message, message, message

2080 7660 7687 0967 2214 2593 9353 7660

Rebeat, rebat, rebat

2080 7660 7687 0967 2214 2593 9353 7660

End of message. End of transmission

Notes: Lots of PC problems. Long pause during the repetition between 9353 and 7660. Two times End of message.

6140 kHz, 12-07, 0745 UTC

250 250 250 250 250 250

Message, message, message

4844 8021 9020 3175 7656 9158 4858 5927 5220 6336 3487 9020

Rebeat, rebat

4844 8021 9020 3175 6 9158 4858 5927 5220 6336 3487 9020

End of message. End of transmission

Failure in the repeat of group 7656

6140 kHz, 12-07, 0930 UTC

333 333 333 333 333

Message, message, message

2080 7660 7687 0967 2214 2593 9353 7660

Rebeat, rebat, rebat

2080 7660 7687 0967 2214 2593 9353 7660

End of

Rebeat, rebat, rebat

2080 7660 7687 0967 2214 2593 9353 7660

End of message. End of transmission

Windows 7 login sound before the transmission

6140 kHz, 13-07, 0800 UTC / 6140 kHz, 14-07, 0805 UTC

012 012 012 012 012

Message, message, message

9005 1831 4644 3059 5571 9837 7762 7296

Rebeat, rebat, rebat

9005 1831 4644 3059 5571 9837 7762 7296

End of message. End of transmission

G06

6887 kHz, 13-07/27-07, 1830 UTC

842 149 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

5935 kHz, 14-07/28-07, 1930 UTC

218 149 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

5890 kHz, 20-07, 1300 UTC

E06 instead of G06: 329 329 329 00000

Windows shutdown sound

S06

15721 kHz, 03-07, 0400 UTC

480 532 60

50185 24139 76907 80502 45885 78125 32383 26109 17707 69365
15176 02635 61097 29864 34122 73279 62140 15497 70914 33100
04113 57562 31634 35427 43283 60533 29239 73054 58642 69428
14198 00162 05237 55262 95458 05888 25812 91986 18927 75508
00437 23380 95666 00150 38808 43318 96979 20966 44921 37855
58576 18736 08779 62559 61016 84805 04858 53546 78600 34310
532 60 00000

10755 kHz, 04-07, 0830 UTC

975 368 51

50821 42306 93108 65407 00270 76238 63307 54537 13868 70191
94033 68723 66372 34640 96127 29518 77347 01370 73317 54567
05010 86436 05763 19048 72197 13769 36809 33229 72904 41601
73917 90828 32826 58928 39677 67861 22339 44170 33864 76657
45360 03218 92467 04751 52527 29081 54625 93318 52130 50289
73409
368 51 00000

15875 kHz, 06-07, 0830 UTC

13469 kHz, 06-07, 0930 UTC

842 579 30

75825 93995 64114 04334 44995 28290 80450 23520 94377 72040
31346 78477 70283 50821 89773 34528 76646 45899 45039 28123
20305 89385 22335 83338 87239 14189 76210 98001 66957 44678
579 30 00000

9463 kHz, 12-07, 1020 UTC

801 (R) pause 1 801 (R) 492 50
85815 75674 56788 62820 54059 74464 54232 50086 81078 52764
10473 98659 79042 09380 84065 01903 85244 58191 56492 02659
66024 66524 17482 90473 4 stops and restarts with group 19
801 (R) pause 801 (R) pause 801 (R)
56492 02659 66024 66524 17482 90073 44623 13152 48766 87135
82673 14363 48171 39881 69813 91532 61225 44196 01743 78639
12479 71147 50349 93155 53717 76795 56648 18752 71247 07411
00599 73266
492 50 00000

15875 kHz, 20-07/21-07, 0830 UTC**13469 kHz, 20-07/21-07, 0930 UTC**

842 715 32
49048 41274 94533 67471 20487 27712 02134 28540 71145 57483
82901 39487 99214 53457 85721 92466 79106 30927 78249 56684
86519 91697 61087 68044 40399 02645 04330 30605 03984 69681
61154 03294
715 32 00000

15875 kHz, 28-07, 0830 UTC**13469 kHz, 28-07, 0930 UTC**

842 609 33
96038 13754 81617 61635 11539 66688 78444 81456 63575 64082
14262 18729 10708 52710 67830 66756 91885 64504 59729 07989
92192 64011 83372 37896 05946 82664 70120 59249 51856 13309
55653 82747 19919
609 33 00000

S11a**12153 kHz, 03-07/05-07, 1830 UTC**

380/30 Vnimanaye
97561 53267 21500 93193 65632 69108 25968 21451 83226 09259
69972 33005 44161 25550 45216 46760 35761 16119 16413 92250
47404 70637 07034 44191 46211 82774 53637 68057 68298 23223
Vnimanaye, rpt msg, konets

12457 kHz, 05-07/08-07, 1850 UTC

286/35 Vnimanaye
43613 62296 13042 97342 75474 53946 61372 32422 73669 59733
53696 19916 63754 32136 18125 31017 958 51564 03246 13186
86642 72228 26106 56391 72766 89017 50920 18825 92488 21654
49310 01774 39328 67407 71441
Vnimanaye, rpt msg, konets

10210 kHz, 10-07, 1015 UTC

471/31 Vnimanaye
45806 98875 26200 26096 10189 68749 63925 91874 37407 19604
02080 54710 66486 96790 70766 21016 18566 87819 82569 61977
47954 93177 83626 58071 86120 90680 79421 49123 24020 48546
34054
Vnimanaye, rpt msg, konets

8530 kHz, 11-07/14-07, 0915 UTC

481/34 Vnimanije

08430 23481 74955 85260 02098 58869 75815 01342 55604 23914
10466 67500 43822 11816 79273 36306 69433 19503 68007 10466
49344 18136 33171 11441 33588 27696 01430 49655 96157 46639
41888 03917 42810 08715

Vnimanije, rpt msg, konets

11092 kHz, 12-07/15-07, 1540 UTC

567/36 Vnimanije

73502 20710 00417 20625 91156 55639 59295 63909 29147 33581
24238 63393 22132 76767 63686 95160 92642 94145 98034 71897
88859 25642 19181 09896 84837 97387 90734 01991 83494 50269
51350 69753 44181 91809 47927 18234

Vnimanije, rpt msg, konets

4870 kHz, 12-07/14-07, 1955 UTC

378/38 Vnimanije

80239 36841 04684 65115 71196 50242 30065 25694 71328 73120
60822 60011 53005 59307 45969 36431 99142 17393 66253 55996
29942 80986 68871 66002 89450 66760 24617 30752 07336 16564
49599 57520 63796 74655 58329 96019 61278 85185

Vnimanije, rpt msg, konets

5149 kHz, 18-07/21-07, 0455 UTC

322/39 Vnimanije

54007 78450 23856 48676 59349 96800 96480 47291 58475 67983
64461 41780 04365 35140 38500 09422 98057 36303 97876 62676
57792 45946 25180 86690 02786 00205 47999 91167 77799 87850
74833 36535 22990 40439 96099 30043 23423 67910 20260

Vnimanije, rpt msg, konets

8800 kHz, 18-07/21-07, 1020 UTC

422/33 Vnimanije

05738 85688 65398 72129 58286 87676 29610 56489 77965 50026
40983 57309 46215 60634 60934 62369 58540 61461 73561 17971
63594 07079 65695 54112 42042 63974 65069 31335 89514 13300
26308 84895 40392

Vnimanije, rpt msg, konets

S25**13883 kHz, 06-07, 0230 UTC**

104 104 104 23954 23954 (R2m)

11111 11111 00000 00000

13883 kHz, 11-07, 0230 UTC

104 104 104 23934 23934 (R4m)

44444 44444

23384 23384 23384 (R4m)

11111 11111 00000 00000

13883 kHz, 13-07, 0230 UTC

104 104 104 23964 23964 (R4m)

44444 44444

23674 23674 23674 (R2m)

11111 11111 00000 00000

V07

13563/12163 kHz, 09-07, 0700/0720 UTC 512 512 512 000
12163 kHz, 09-07, 0724 UTC 512 512 512 000. Note the unusual repeat at 0724 UTC

13563/12163/10263 kHz, 23-07, 0700/0720/0740 UTC
512 512 512 1 430 67 430 67
58416 95721 90315 87559 28056 35789 05775 02598 10515 21590
14244 23379 66536 24880 33431 07011 51393 21660 83048 84820
79896 52848 65692 73335 30308 85943 97987 17227 29888 20014
34739 28301 41929 76588 48320 28489 03821 98672 41040 98812
50212 11071 98138 94758 79474 97143 73281 67888 62546 11743
47967 03333 60099 77758 58154 14430 80247 43075 26038 01199
86702 39854 19521 17046 26233 40247 76915
000 000

10250 kHz, 25-07, 1200 UTC, test with many errors. Partly unreadable due to fading and interference.

687 687 687 1 97 50 97 50
53514 42804 63533 50575 658
stops, restarts and stops again
Restarts: 687 687 687 1
53514 42804 63533 50575 65815 05256 faded, unreadable
687 687 687 1
535 04 63533 50575 65815 525 7 1 pause
03433 78227 57035 52300 40035 04?4 pause
51830 10200 56104 64378 06075 50810 35575 55610 86658 65348 63550 81116 11185 60575
000 000

V24

Logs:

Freq	Date	UTC	Day	Details
5290	3-7	1430	Mon	Music followed by message in Korean
5900	15-7	1600	Sat	Music: J'aime la vie followed by messages in Korean
4900	23-7	1530	Sun	Music followed by a message in Korean
4900	25-7	1530	Tue	Music followed by Korean numbers

Token updated his V24 schedules page. .

http://www.tokenradio.net/Radio/SharedFiles/NumbersTfer/V24_M94_latest_sched.JPG

Day	1300	1330	1400	1430	1500	1530	1600
1						6310	
2							
3				5290		6310	
4							
5				5290	6215		
6							
7				5290	6215		
8						6310	
9					6215		
10							
11				4925			5115
12							
13				4925			5115
14							
15				4925			5900
16							5115
17							
18			5150				5900
19					5715		
20							
21			5150		5715		
22							5900
23						4900	
24							
25			5150			4900	
26					5715		
27						4900	
28							
29							
30							
31							

Based on observations from August, 2016, to 27 June, 2017.

03 February a Shortwave Broadcast station became active daily on the frequency 4900 kHz from 1200 UTC until 1600 UTC. This will likely impact the remaining 4900 kHz V24 schedule, on day 23, 25, and 27, at 1530 UTC.

Transmit site potentially identified as Gongneung, Seoul, South Korea, 37.638548, 127.110523

VC01 - Chinese Robot (Chinese Air Defense)

Copied on

7118 kHz, 12-07, 0957 UTC in USB

4588 kHz, 15-07, 1331 UTC in USB

7118 kHz, 19-07, 1134 UTC in USB

MORSE STATIONS

M01

6435 kHz, 01-07, 1455 UTC VVV

6435 kHz, 01-07, 1500 UTC

025 547 547 30 30 = =

10444 15898 80361 63005 79163 32069 52763 67856 65331 83272
98406 82598 16929 55582 95841 02900 10078 16306 84161 07896
97017 77875 64618 63234 87555 44613 36365 68941 10941 47168
= = 547 547 30 30 000

4905 kHz, 04-07, 2000 UTC with errors

025 218 218 30 30 = =

24751 49228 75579 73582 69423 51518 24922 72577 59163 99696
71619 71857 51374 48014 10210 93523 99678 11684 42975 61514
08028 21435 3 20334 203 6241 25 secs pause 77784 76640 59288
16240 2044 0774 8
= 218 218 30 30 000

5280 kHz, 06-07, 1800 UTC

025 129 129 30 30 = =

18624 78929 09705 45902 13699 14834 72102 66318 86956 42285
68384 98610 06416 18437 97254 47058 36267 96376 74945 50225
03425 11661 81288 63264 66676 16926 72818 60087 86367 36837
129 129 30 30 000

6435 kHz, 08-07, 1500 UTC

025 529 529 30 30 = =

53631 67266 11073 89941 03231 36083 70122 93401 98717 50059
24679 19995 98456 68297 37325 17315 10461 10772 71815 81055
47526 33930 52184 81759 38905 57203 36378 41553 43984 26657
= 529 529 30 30 000

6435 kHz, 22-07, 1500 UTC, many errors

025 555455 30 30 = =

97866 00311 84779 30012 42584 76875 99082 68168 80685 29942
01664 06122 02584 39713 97941 83322 76136 39419 62037 56808
98952 41141 79841 35152 85351 38575 53004 97102 62555 36016
= = 555455 30 30 000

6780 kHz, 23-07, 0700 UTC

025 903 903 30 30 = =

61030 05726 29234 89818 44829 17310 14287 99398 58357 03244
59535 53504 09859 21060 16434 96248 59687 29414 50614 24052
99407 47746 94684 91509 28991 49841 84431 55998 65506 89084
= = 903 903 30 30 000

6780 kHz, 30-07, 0700 UTC

025 987 987 30 30 = =

42300 23390 59823 35573 13343 83370 54903 15946 99526 92150
65469 87531 30721 91281 15915 36402 46328 80805 13055 31216
72967 43433 49905 13241 32924 15503 15954 27535 98260 15483
= = 987 987 30 30 000

M01a

4575 kHz, 03-07, 0837 UTC, i.p.

543 65953 543 65953

111 999

208 15 = 91149 40761 68862 17040 29963 32853 33674 71296 40083 89540 40018 59721 76818 22363 31280 = 208 15

111 4 0 0 83

111 911 49

111 911 49

111 000

5789 kHz, 05-07, 0942 UTC, i.p.

635 635 635 72380 72380 (R3)

635 635 635

000

5172 kHz, 06-07, 1534 UTC, i.p.

111 000

5216 kHz, 07-07, 1206 UTC, i.p.

943 (x3) 111 (x3) (Rx11)

333

111 999 (Rx2)

217 10 = 24906 41324 09601 65740 96324 98564 01890 41324 19840 12498 = 217 10

111 000

5182 kHz, 11-07, 0906 UTC, i.p.

781 333 00

111 333 03

111 333 10

111 000 (x4)

5182 kHz, 11-07, 0924 UTC, i.p.

862 (x5) 970 60 (Rx2)

970 60

862 (x4) 970 60 (x2)

862 (x2)

852

862 (x2) 970 60 (x2)

862 (x7) 985 70 986 70 ..

Key down/Test tone.

781 [for 30 secs]...

Message continued over 781 ...

866

862 (x5)

852

973 30 (x3)

862 861 852 852

7340 973 30

862 (x4)

97330 (x2)

862 (x2)

862 (x3) 973 4

62862 862 852 862 97340

9730

862 (x5)

98150 (x3)

862 (x3) 981 50 (x3)

862 (x5) 981 50 (x3)

862 852 852

98150 (x3)
862 (x2) 852 8
333 (x5)
862 (x4) 98150 (x2) 9850
862 (x2) 85 862 (x2) 98150
862 (x2) 961862 862 852
862 (x4)
862 852
862 (x4)
111 (x3) 333 10 (x2)
111 333 04
111 000

5182 kHz, 11-07, 1051 UTC, i.p.

781 (x3) 3180 1 3180 1 (Rx9)
781 (x3) 31603 31603 7
817 (x3) 81316 033 180 17
817 (x2) 81316 033 160 3
781 (x3) 31603 31603 (Rx2)

5080 kHz, 12-07, 0916 UTC, i.p.

942 (x3) 629 40 (x2)
Key down/Test tones
942 (x3) 620 50 (x2) (Rx3)
942 (x2) 5
123456789
111
00000

4849 kHz, 12-07, 1034 UTC, i.p.

... 4
111 999
178 10 = 10984 01654 86490 63249 80403 20198 65312 96845 10984 65310 = 178 10
111 000

4679 kHz, 13-07, 1136 UTC, i.p.

120 (x3) 96800 (x2) (Rx3)
120 (x3) 96744 (x2) (Rx9)

4922 kHz, 13-07, 1206 UTC, i.p.

333 01
020 020 3 (x2)
333 030 4
333
333
333 03 (Rx3)
111 000

5347 kHz, 13-07, 1328 UTC, i.p.

111 999
010 25 = 12553 12798 34556 23235 45087 75432 12345 12345 45087 23432 45677 34464 97532 12345 04541 36557 96544
56798 97532 23445 34876 04645 75432 12345 45677 = 010 25 000
111 333 444 00 = 010 25 000 1332z

5347 kHz, 13-07, 1415 UTC, i.p.

134 (x3) 20 160 (x2)
222 12
111 999
011 25 = 36557 96544 04541 12685 57669 45677 34464 97532 34876 04645 45677 34464 87777 34876 04645 75432 12345
45087 45706 89750 34464 97532 12345 85674 36557 = 011 25 000

M01b

5125//5735 kHz, 03-07/10-07, 1810 UTC

364 721 721 32 32 = = 000 (as sent) //5735 kHz

364 721 721 32 32 = =

45230 79827 18857 26009 30546 39929 14790 65620 73218 40084 58290

94084 23750 52090 54519 01704 19689 73341 98043 00550 52794 25400

49603 49603 28582 28582 47764 47764 16829 77741 28021 99521 98569

08724 58700

721 721 32 32 = = 000

5150//5475 kHz, 03-07/10-07/17-07, 1915 UTC

858 721 721 32 32 = =

45230 79827 18857 26009 30546 39929 14790 65620 73218 40084 58290

94084 23750 52090 54519 01704 19689 73341 98043 00550 52794 25400

49603 49603 28582 28582 47764 47764 16829 77741 28021 99521 98569

08724 58700

721 721 32 32 = = 000

5095//5760 kHz, 06-07, 1837 UTC. Late start

815 815 815 000 stops and starts sending a message at 1843 UTC

815 721 721 32 32 = =

45230 79827 18857 26009 30546 39929 14790 65620 73218 40084 58290

94086 23750 52090 54519 01704 19689 73341 98043 00550 52794 25400

49603 28582 47764 16829 77741 28021 99521 98569 08724 58700

= = 721 721 32 32 000

Windows XP error sounds on 5760 kHz before the message

5075//5465 kHz, 14-07, 1902 UTC

336 721 721 32 32 = =

45230 79827 18857 26009 30546 39929 14790 65620 73218 40084 58290

94084 23750 52090 54519 01704 19689 73341 98043 00550 52794 25400

49603 49603 28582 28582 47764 47764 16829 77741 28021 99521 98569

08724 58700

= = 721 721 32 32 000

4895//5340 kHz, 14-07, 2010 UTC

476 721 721 32 32 = =

45230 79827 18857 26009 30546 39929 14790 65620 73218 40084 58290

94084 23750 52090 54519 01704 19689 73341 98043 00550 52794 25400

49603 49603 28582 28582 47764 47764 16829 77741 28021 99521 98569

08724 58700

721 721 32 32 = = 000

5125//5735 kHz, 17-07, 1810 UTC

364 721 32 32 = =

45230 79827 18857 26009 30546 39929 14790 65620 73218 40084 58290

94084 23750 52090 54519 01704 19689 73341 98043 00550 52794 25400

49603 49603 28582 28582 47764 47764 16829 77741 28021 99521 98569

08724 58700

15821/13921/12221 kHz, 03-07/05-07, 1400/1420/1440 UTC

892 892 892 1 5153 193 5153 193
90036 87918 32550 41863 69244 81928 60035 01505 50997 15065
46668 26825 53704 33894 17006 07993 49040 50017 21314 28154
85294 24245 02484 40254 53473 23323 91713 39230 79926 31464
73666 82610 91530 23955 16744 46065 43060 97506 01292 38289
72082 95267 70967 17951 25725 83699 65397 66379 44281 15264
51720 88184 41303 29611 98506 47855 65805 20240 78180 83251
02915 46519 88818 88719 26487 19070 61686 69420 36060 03171
15642 02891 86895 14228 04553 91088 02082 85658 56190 61638
14187 66230 83766 43055 85968 76101 33075 07753 37342 45461
28016 71909 58620 96587 71080 62668 88800 13251 07568 91667
05625 81062 32938 03576 10354 36595 58576 30957 48223 82641
10050 64615 84678 15552 20100 12218 79438 00075 71505 92616
19068 27657 02306 07066 26318 19306 57311 37963 68521 51221
46569 71938 06870 69370 74094 53595 02886 66579 42593 89704
75532 53757 48675 89741 85215 23336 47509 00363 80315 97654
29616 36005 64949 08383 01539 67651 42335 42163 58497 89838
59617 92422 88383 18322 41011 22648 85378 36520 83328 18442
12351 91291 24951 30335 73718 11367 93082 68055 89784 19610
56398 50851 40343 20960 05660 44119 48113 28474 74577 02473
88423 98980 61214
000 000

9379/7979/6879 kHz, 06-07, 2100/2120/2140 UTC

398 398 398 1 398 3737 153 3737 153
58721 80868 01669 42944 82178 68908 47517 21464 12524 40704
35512 51286 88035 29040 75831 65621 37747 71640 55167 24704
55420 76174 31287 38897 26199 77020 10756 90648 32846 53225
75047 48559 56668 04558 19406 47473 85992 40025 33411 72251
01501 33426 05647 19093 65523 45149 00955 32364 14645 27376
24437 12761 22295 05898 02807 48154 37761 51350 27387 35679
18924 21208 26278 84120 81261 12323 41910 93499 17755 18104
94413 14502 27802 72281 85396 78336 69634 40049 70137 66945
12546 97813 55580 10173 82645 47435 35622 34279 44492 34141
78773 06437 39958 99378 00802 81512 38223 24883 03756 90939
63368 82790 24023 18070 83287 18172 76925 62151 86763 86320
88549 38211 23511 01940 15558 86062 50578 39632 74757 73392
60145 78660 30001 85839 10920 13210 19545 11807 68501 22348
78395 81012 35815 35026 66346 25099 74776 77353 88055 47937
64051 29125 41673 86873 78115 09352 34032 98744 55060 87707
97357 47836 87335
000 000

13926/12126/10926 kHz, 06-07/08-07, 1310/1330/1350 UTC

919 919 919 1 5547 85 5547 85
68787 90786 55399 83253 35722 74823 70226 33285 84692 19160
70110 82229 60781 25367 82119 09614 33109 43945 54959 87431
09922 40344 73889 98927 71994 78044 05567 01425 83444 09785
18748 14300 31215 37984 67212 90976 57215 95578 97024 14716
40185 02418 61908 12748 78676 94560 57312 59337 14158 38933
64152 67093 24609 34047 62506 41496 57968 29307 97950 89067
42096 28106 43982 44338 34924 78163 84214 59652 02520 85824
02439 55573 81071 40347 79067 33739 03415 10917 66258 90042
09489 81752 43263 32414 68710
000 000

9217/10617/12217 kHz, 08-07, 0500/0520/0540 UTC

262 262 262 1 3737 153 3737 153
58721 80868 01669 42944 82178 68908 47517 21464 12524 40704
35512 51286 88035 29040 75831 65621 37747 71640 55167 24704
55420 76174 31287 38897 26199 77020 10756 90648 32846 53225
75047 48559 56668 04558 19406 47473 85992 40025 33411 72251
01501 33426 05647 19093 65523 45149 00955 32364 14645 27376
24437 12761 22295 05898 02807 48154 37761 51350 27387 35679
18924 21208 26278 84120 81261 12323 41910 93499 17755 18104
94413 14502 27802 72281 85396 78336 69634 40049 70137 66945
12546 97813 55580 10173 82645 47435 35622 34279 44492 34141
78773 06437 39958 99378 00802 81512 38223 24883 03756 90939
63368 82790 24023 18070 83287 18172 76925 62151 86763 86320
88549 38211 23511 01940 15558 86062 50578 39632 74757 73392
60145 78660 30001 85839 10920 13210 19545 11807 68501 22348
78395 81012 35815 35026 66346 25099 74776 77353 88055 47937
64051 29125 41673 86873 78115 09352 34032 98744 55060 87707
97357 47836 87335
000 000

14869/13569/12179 kHz, 08-07, 2110/2130/2150 UTC

851 851 851 1 4403 101 4403 101
11503 61508 01017 05521 47471 69022 83998 77641 86204 04306
68723 35864 43075 68670 88378 09937 65545 84353 95481 20707
59889 91704 70911 06607 20839 40891 56490 14718 08541 07561
26255 75783 96386 08578 61992 83466 39345 47051 77526 46191
45456 56175 94526 35255 56444 13409 59111 76713 99282 94074
42451 10885 23337 46595 31088 02253 40122 89492 95414 40687
74604 29697 60093 11241 46981 26743 35286 75775 91807 18631
72662 17099 04627 42736 60323 49465 05760 77952 30151 10794
78771 44930 44971 76296 32538 10139 58822 53743 62358 96503
81904 61510 12248 55484 31958 63284 13314 19595 49305 70923
09006
000 000

9379/7979/6879 kHz, 12-07, 2100/2120/2140 UTC

398 398 398 1 4475 67 4475 67
59641 95708 37606 49088 08665 36188 09865 27279 42549 29653
92740 41502 96200 04200 65789 14329 00002 75472 80161 76862
17524 77982 31710 94320 08112 92123 20456 93834 47392 15695
34317 68875 17145 18450 61894 20023 71266 14886 95588 22236
77829 77122 88013 04012 45991 53935 17759 98415 88449 69369
40517 23781 07155 86465 10173 30012 41345 31850 75980 34308
30025 56148 55635 28563 35542 62606 70397
000 000

9217/10617/12217 kHz, 15-07, 0500/0520/0540 UTC

262 262 262 1 4475 67 4475 67
59641 95708 37606 49088 08665 36188 09865 27279 42549 29653
92740 41502 96200 04200 65789 14329 00002 75472 80161 76862
17524 77982 31710 94320 08112 92123 20456 93834 47392 15695
34317 68875 17145 18450 61894 20023 71266 14886 95588 22236
77829 77122 88013 04012 45991 53935 17759 98415 88449 69369
40517 23781 07155 86465 10173 30012 41345 31850 75980 34308
30025 56148 55635 28563 35542 62606 70397
000 000

15821/13921/12221 kHz, 17-07/19-07, 1400/1420/1440 UTC

892 892 892 1 555 185 555 185
50062 12927 33044 40508 53751 33897 69002 83171 15288 89811
53311 86735 43801 89921 14577 22490 55260 61670 10690 09628
96605 69332 06851 46527 33580 36522 97211 00912 40227 68189
64542 06977 96142 13846 01597 13168 37223 41839 94767 26547
10097 44260 54912 30731 82049 98905 58464 88923 30179 40258
02038 00352 52263 67836 01708 56888 79290 99865 83404 97082
09120 63262 02587 37907 55652 20986 69774 75445 16313 34053
37863 88720 69303 05737 69081 50223 27904 12554 99992 58079
70956 41764 93018 31806 13790 48082 47008 45318 42777 66252
51701 40220 55188 45922 83767 21214 04788 77090 21415 06391
03605 76776 40187 36268 75543 28561 23744 23870 12373 31464
50075 72893 10153 91895 38279 20607 32798 06198 15920 49936
56904 10788 40982 54094 47737 05029 01753 87271 81658 12634
54208 70058 64163 96771 35836 63654 42686 17523 26772 35370
09294 58632 39497 75657 87917 10326 75565 18383 07495 40906
88641 03793 73838 70799 08613 12508 67287 19515 52830 28497
96024 90530 84217 71735 88035 11772 34994 32904 53853 57475
89891 67879 92284 68465 39036 49102 44447 82156 42435 09566
83407 81554 39279 73036 08188
000 000

14869/13569/12179 kHz, 22-07, 2110/2130/2150 UTC

851 851 851 1 1102 67 1102 67
23041 06945 52128 28009 95123 21497 21940 41169 07314 63472
43136 84839 39055 50725 09263 64906 14090 49148 45204 63358
25751 41439 44352 88020 41224 51546 31550 95061 08585 73125
07785 03866 89219 69958 47997 51447 75819 61043 31942 18916
04932 53233 55920 40047 03954 99556 44211 77260 07937 74029
77304 05144 16057 89914 74843 12893 34400 36230 97115 11581
07744 13571 45233 46940 94895 89652 83501
000 000

9379/7979/6879 kHz, 27-07, 2100/2120/2140 UTC

398 398 398 1 6501 119 6501 119
00350 78760 39802 25167 83094 56473 68675 48791 79152 68649
56012 07973 58538 29577 46347 01454 47098 05916 50236 72421
33428 09606 46549 48118 92614 91569 83475 40333 49956 73930
02324 88556 80677 49655 20101 39512 13594 47720 50178 55957
09948 57890 49800 58966 67552 88258 42359 97945 17533 87750
16518 47946 63023 63963 32451 87445 59840 52099 27135 58818
47085 43107 63845 71894 51122 78033 79206 12467 43489 92111
36114 12150 35876 54326 01949 79417 27422 31855 07315 17106
35837 59542 27294 93266 59083 47181 27333 71963 25272 75139
63736 42122 55538 29320 77071 26011 80926 62114 31218 86654
37607 81736 94682 88423 83852 62518 78535 87365 73556 02505
05771 95172 23950 66104 32909 82384 34885 65922 68197
000 000

13926/12126/10926 kHz, 27-07/29-07, 1310/1330/1350 UTC

919 919 919 1 4219 111 4219 111

07034 93778 56757 06537 86739 96095 67879 64850 43220 29447
01316 41852 71396 66667 40151 45517 60005 45979 59611 23578
96980 83282 56729 65951 73319 49254 45789 65903 70772 42603
14715 73379 10749 98281 89216 52856 64838 95352 64310 13256
34862 56108 09519 05576 95812 52828 30246 12645 63837 98656
87290 97475 62945 50812 90462 47292 31844 04365 60777 49656
43455 73916 43090 31469 87442 76422 37589 77707 07671 25495
26123 77343 20331 52423 72844 20142 17056 63694 33119 24068
84667 01922 35259 24692 00189 18075 64050 72914 83985 93856
99305 42218 39140 12420 94131 77770 04544 96943 52745 29883
46341 14444 19553 64311 95182 78110 19705 01781 89689 15774
65601
000 000

9217/10617/12217 kHz, 29-07, 0500/0520/0540 UTC

262 262 262 1 6501 119 6501 119

00350 78760 39802 25167 83094 56473 68675 48791 79152 68649
56012 07973 58538 29577 46347 01454 47098 05916 50236 72421
33428 09606 46549 48118 92614 91569 83475 40333 49956 73930
02324 88556 80677 49655 20101 39512 13594 47720 50178 55957
09948 57890 49800 58966 67552 88258 42359 97945 17533 87750
16518 47946 63023 63963 32451 87445 59840 52099 27135 58818
47085 43107 63845 71894 51122 78033 79206 12467 43489 92111
36114 12150 35876 54326 01949 79417 27422 31855 07315 17106
35837 59542 27294 93266 59083 47181 27333 71963 25272 75139
63736 42122 55538 29320 77071 26011 80926 62114 31218 86654
37607 81736 94682 88423 83852 62518 78535 87365 73556 02505
05771 95172 23950 66104 32909 82384 34885 65922 68197
000 000

M14**18041 kHz, 03-07, 0500 UTC**

952 137 137 50 50 = =

47432 31660 21374 64203 31603 69671 64313 78756 80912 85148
17500 79461 37108 23525 66577 61896 89873 67173 68205 08353
20667 48361 83596 99282 78691 22851 15277 40852 37436 46339
58011 63304 05213 20909 99820 69800 88138 03686 34034 40445
28999 94901 68320 21173 70425 47525 41622 52179 15822 65672
= = 137 130 S 50 50 00000

18041 kHz, 04-07, 0500 UTC

952 460 460 55 55 = =

73056 41666 71572 94768 00976 17647 26664 12483 32383 46563
19218 57975 87794 35170 78876 33816 26929 91307 66103 23658
49649 97381 83340 66731 62248 10508 19456 98858 76239 25246
07187 58408 31866 59874 98254 80616 63498 52136 85841 28741
49113 75395 29125 35457 11050 11140 59542 52950 60212 38771
73487 35137 00925 28613 41118
= = 460 460 55 55 00000

18041 kHz, 05-07, 0500 UTC

952 713 713 60 60 = =
31651 40596 40718 11487 07072 73404 70678 27902 07275 90366
61688 46273 77351 39963 46263 54735 60786 28652 76877 91610
03940 37045 75614 37414 34856 07675 41732 96416 89813 71525
53072 47449 86077 05519 22253 68621 64273 38152 93589 65664
48832 45462 91672 58569 99937 04508 57538 06213 55410 96566
33386 73664 85982 77218 81757 71851 12374 55514 50131 24274
= = 713 713 60 60 00000

18041 kHz, 06-07, 0500 UTC

952 864 864 50 50 = =
27647 19975 54931 95836 53656 47622 58809 31611 55386 75156
13857 08477 21574 84031 91186 76200 47113 54066 91620 22567
64275 88288 13686 32073 29884 17576 20519 39234 85639 71001
35400 24970 33767 22855 20573 29485 95192 52254 19066 80098
42423 76295 64179 57447 24317 42670 86339 48506 24944 92696
= = 864 864 50 50 00000

18041 kHz, 07-07, 0500 UTC

952 301 301 55 55 = =
07393 23099 75497 88197 37100 92909 74965 57819 47690 63653
44490 18759 90365 23830 64055 33317 63508 74807 62729 33037
30867 40474 60721 97751 60537 80912 31464 34734 64433 08504
75895 18868 42935 29911 26143 79808 64402 62387 20784 47036
34228 97826 18878 88773 33147 13015 44955 05677 29455 49506
82150 65254 94849 11565 55671
= = 301 301 55 55 00000

5430 kHz, 08-07, 0800 UTC / 5560 kHz, 08-07, 0900 UTC

171 273 273 55 55 = =
74653 26354 93746 27364 18263 72635 28716 81235 73654 87534
16324 32543 17365 56374 82634 08743 17525 93764 37215 72543
53645 27321 87364 25341 89765 74653 27345 46372 10763 36572
17145 28364 37281 73764 82736 73652 18972 37485 83674 18902
36452 63542 17453 63463 72831 36425 16723 97463 18234 92764
73865 27354 52132 48736 91023
= = 273 273 55 55 00000

5251 kHz, 09-07, 2300 UTC / 5825 kHz, 10-07, 0000 UTC

376 273 273 55 55 = =
74653 26354 93746 27364 18263 72635 28716 81235 73654 87534
16324 32543 17365 56374 82634 08743 17425 93764 37215 72543
53645 27321 87364 25341 89765 74653 27345 46372 10763 36572
17145 28364 37281 73764 82736 73652 18972 37485 83674 18902
36452 63542 17453 63463 72831 36425 16723 97463 18234 92764
73865 27354 52132 48736 91023
= = 273 273 55 55 00000

18041 kHz, 10-07, 0500 UTC

952 478 478 50 50 = =
66747 84178 36397 40118 83431 06262 90419 79737 86373 31834
05705 58796 22455 54363 19869 91810 71457 83764 12554 02264
52135 95524 44754 87978 92839 02566 11914 55342 46379 48304
02973 83313 53811 44344 82567 03151 86838 01232 38555 04807
23515 25713 62066 05913 36933 82936 52254 44302 01593 47031
= = 478 478 50 50 0000

18041 kHz, 11-07, 0500 UTC

952 316 316 50 50 = =
89895 51424 33997 79136 79435 44969 73034 41349 77852 35061
19681 86281 14828 50550 95412 82429 13387 84277 27977 61276
69680 85715 83364 20917 89887 39259 26012 70808 32697 70349
18156 72314 30778 46613 94295 54739 89706 66214 71681 11534
87758 50590 82779 06377 25030 83784 40649 43789 95301 65535
= = 316 316 50 50 00000

18041 kHz, 13-07, 0500 UTC

952 673 673 50 50 = =
07525 03419 20662 08156 39165 22566 09678 62517 71739 61046
39015 88317 68479 44278 57029 08660 26517 40997 97802 20979
43158 63395 25595 38051 14683 29862 92283 93946 59849 51254
12478 38354 85293 26641 86003 67736 35010 59466 22428 66720
91100 30045 47329 58196 17987 85356 94992 85532 67257 32055
= = 673 673 50 50 00000

18041 kHz, 14-07, 0500 UTC

952 180 180 50 50 = =
27757 29282 88224 10934 46520 69930 15761 20779 09976 25438
19917 51888 03395 13066 16459 05433 19333 04052 78943 10988
89624 52371 26236 82872 60842 40767 96452 08622 30402 30021
37021 18023 85492 22367 65536 06155 12034 75014 81107 08872
65835 24702 30881 54164 23154 09225 61424 37835 52826 96870
= = 180 180 50 50 00000

18041 kHz, 17-07, 0500 UTC

952 347 347 60 60 = =
45991 96226 24662 15963 57163 07082 03429 79793 64100 69656
27757 29282 88224 10934 46520 69930 15761 20779 09976 25438
19917 51888 03395 13066 16459 05433 19333 04052 78943 10988
89624 52371 26236 82872 60842 40767 96452 08622 30402 30021
37021 18023 85492 22367 65536 06155 12034 75014 81107 08872
65835 24702 30881 54164 23154 09225 61424 37835 52826 96870
= = 347 347 60 60 00000

18041 kHz, 19-07, 0500 UTC

952 408 408 60 60 = =
00520 05279 65442 64838 63336 31492 16063 10143 23024 56611
79253 35074 97563 03618 10335 93270 15269 89735 48714 23239
51081 76662 12821 41813 87576 44348 12725 25980 17867 74234
10117 31524 32575 52920 80333 21933 58092 32155 56132 05984
38282 06136 57882 07466 76834 92012 39870 15467 82446 24566
07411 88666 84032 00971 84442 12063 08129 36602 36299 29590
= = 408 408 60 60 00000

18041 kHz, 20-07, 0500 UTC

952 637 637 60 60 = =
77718 55440 04075 06966 42981 70721 72080 38886 31474 04823
36625 10997 34969 16978 70710 47463 45060 94039 28002 88659
98859 72711 22756 34555 14634 11491 58280 30760 40824 29508
89864 26945 66875 54441 33127 62310 69330 46709 53706 57790
91603 92111 99231 19684 80892 80122 59531 84402 30649 10013
65983 59012 02060 91985 65977 37269 22964 35531 33404 95829
= = 637 637 60 60 00000

18041 kHz, 21-07, 0500 UTC

952 840 840 50 50 = =

51047 57478 64490 51502 59634 57181 11984 59549 81162 13384
46251 49393 84151 03326 01705 09187 64811 60276 80800 06758
14979 81976 39995 38131 58517 81366 87125 33195 73353 65532
19908 66919 41347 53818 60226 49589 93189 71028 63922 94467
40493 76675 10754 86352 12291 16189 04215 99433 38108 05045
= = 840 840 50 50 00000

5430 kHz, 22-07, 0800 UTC / 5560 kHz, 22-07, 0900 UTC

171 027 027 45 45

45632 17653 27362 74689 23412 07896 35121 38902 56473 89012
87321 54287 09351 35421 56352 73542 37654 97864 90865 47352
03621 17435 27435 68321 56289 20957 20873 73624 94638 03645
10923 20354 75609 27156 27907 25341 94563 46321 28374 09483
64532 37564 10956 37509 27843
027 027 45 45 00000

5240 kHz, 23-07, 2300 UTC / 5827 kHz, 24-07, 0000 UTC

376 027 027 45 45

45632 17653 27362 74689 23412 07896 35121 38902 56473 89012
87321 54287 09351 35421 56352 73542 37654 97864 90865 47352
03621 17435 27435 68321 56289 20957 20873 73624 94638 03645
10923 20354 75609 27156 27907 25341 94563 46321 28374 09483
64532 37564 10956 37509 27843
027 027 45 45 00000

18041 kHz, 24-07, 0500 UTC

952 631 631 55 55 = =

04538 70933 27283 45568 18038 02441 43816 18031 03459 15681
93736 51376 14588 21763 18412 56522 01405 22508 61586 00402
14661 27113 21469 10179 45715 45093 84182 84203 00069 47673
99481 14396 28018 14830 84706 49740 60883 10164 67893 55579
26231 50789 05976 48397 40550 64433 39030 10786 02797 50930
66493 16258 37259 90292 56279
= = 631 631 55 55 00000

6856 kHz, 25-07, 1820 UTC

163 273 273 55 55 = =

74653 26354 93746 27364 18263 72635 28516 81235 03654 87534
16224 32543 17365 56374 82634 08743 17425 93764 37215 72543
53645 27321 87364 25341 59765 74653 27345 46372 10763 36572
17145 28364 37281 72764 82736 73652 18972 37485 83674 18902
36452 63542 17453 63463 72831 36425 16723 97463 18234 92764
73865 27354 52132 48736 91023
= = 273 273 55 55 00000

18041 kHz, 26-07, 0500 UTC

952 143 143 55 55 = =

30386 63957 86621 89814 59381 21312 57060 69231 36993 34192
56394 94755 79892 80063 17529 33831 14823 15279 10386 51852
27737 89498 82758 60229 97872 34823 74716 32132 45206 46817
92471 15590 64725 99613 52660 98648 95954 62290 32976 06265
21170 08704 90075 33624 50744 37966 30725 45571 39063 47752
47086 96849 04435 27632 52118
= = 143 143 55 55 00000

5933 kHz, 26-07, 1920 UTC

417 273 273 55 55 = =

74653 26354 93746 27364 18263 72635 28716 81235 73654 87534
 16324 32543 17365 56374 82634 08743 17425 93764 37215 72543
 53645 27321 87364 25341 89765 74653 27345 46372 10763 36572
 17145 28364 37281 73764 82736 73652 18972 37485 83674 18902
 36452 63542 17453 63463 72831 36425 16723 97463 18234 92764
 73865 27354 52132 48736 91023

= = 273 273 55 55 00000

18041 kHz, 27-07, 0500 UTC

952 760 760 50 50 = =

46040 26297 95753 58158 41979 26170 27934 42791 82143 03688
 57497 92963 07201 11971 73951 50729 74958 52726 24190 17322
 00445 20408 52032 44626 82025 76546 88648 81048 99494 83952
 42299 13962 95071 55460 60831 75930 73251 96919 65359 06886
 80436 49107 78583 89442 50292 58248 96169 99558 25760 29852

= = 760 760 50 50 00000

18041 kHz, 28-07, 0500 UTC

952 848 848 60 60 = =

23581 70452 40576 11478 99530 93304 83554 35871 98609 22216
 35426 30529 42050 58430 52872 06172 95051 60931 70731 11582
 49443 03496 06000 47338 61132 05664 31457 27706 28265 67330
 67360 32845 21062 61637 64637 18552 99236 65845 78029 75698
 77961 34892 52610 56567 28300 47306 72111 10274 23046 78175
 42519 94452 63922 78855 09348 55402 51050 68096 32049 93875

= = 848 848 60 60 00000

18041 kHz, 31-07, 0500 UTC

952 361 361 50 50 = =

88669 85393 87006 23343 62913 57840 81048 81000 30525 02957
 94181 45652 54850 60697 17270 02055 86907 97264 11863 85677
 17579 09812 52480 87836 72084 42578 26015 46493 32681 44133
 36711 64872 00524 20420 90139 25101 32620 63290 54620 89063
 14824 59215 23518 03639 56799 07858 26857 52527 19896 05195

= = 361 361 50 50 00000

M23

Freq	Date	UTC	Details
5345	6-7	1536	i.p. 555
5345	8-7	1537	i.p. 555
5345	10-7	1203	i.p. 111
5345	10-7	1226	i.p. 444
5345	11-7	1530	222
5345	12-7	1530	222
5345	13-7	1430	222
5345	13-7	1530	222
9070	16-7	0805	Tentative M23 i.p. repeating 800. Ends at 0809 UTC
5345	18-7	1430	555 (R15)
5345	18-7	1530	555 (R15)
9070	30-7	0800	Tentative M23 sending 800 (R8)

M89 - Chinese military

JP logged a lot of exercise traffic this month. Well done !

5678 kHz, 13-07, 1455 UTC

4A67 ATN5 456N 5TUD NDU A UTDA 65A7 ...

AR K K

R RPT K

R U MSG GA K

R GA K (Other end possibly on 6543 kHz)

AR K (switched back to 5678 kHz)

HR MSG

NR 7208 CK 75 79 0713 2240 RMKS 3211529 TO 3211525 =

6U57 364D NTU3 AUT7 DNA3 4DNT 6U3A 374A 3UAD ATUN (Cont'd) AR

5679 kHz, 13-07, 1513 UTC

RHRF GA K

R HR F GA

F NR 5048/EX 2303 RMKS 2135946 TO 2135941 =

A7D2/E6R2 AR

AGN

= EEEE AAGN =

A7D2/E6R2 AR QSL ? K

4128 kHz, 17-07, 1730 UTC, i.p.

MSG NR 0435 CK 41 78 0730 0100 RMKS 2349 TO 2339 K K (Other station on 4163kHz)

01W = =

5AAU TT43 T5N3 T47U D67U A6TD 53D7 63A. T453 TT37 (Cont'd) AR

4163 kHz, 17-07, 1730 UTC, i.p.

7444 4TTU K

RPT 06W K

R A EEEEE RPT 26W TO 28W BT 47ND 374D T574 AR K

R U GA K (Other end found on 4128kHz)

R QSL K

KP

5643 kHz, 24-07, 0843 UTC, i.p.

R R AS AS

RPT 45W RPT 45W K

RPT 45W RPT 45W K

R R RPT 56W 56W K K

RPT 56W 56 EEEE RPT 56W K

RPT 67W 67W

R RPT 88W 88W K

R AS

RPT 89W 89W

RPT 89W K

R RP 95W 95W K K

RPT 95W 95W K

RPT 95W 95W K K

QSL QSL 1657 1657 K

R SK SK

6661 kHz, 24-07, 0906 UTC, i.p.

VV 3KMJ DE VP4M K
R QSA 3 K
HR IEC = 5TGB C K
R HR NR 1 EEEE HR WK NR 18268680 K
R HR 7G K
R 7G NR .484 CK 61 24 0724 1700 RMKS 1826868 TO 1626862 =
A3DU 34NU UA3D (Cont'd) AR K
R U GA

6686 kHz, 24-07, 0827 UTC, i.p.

45T GV5 FF F NR 1413/EX 1634 =
WP/RETREEE =
WP/.8 AR
NR 1410/EX 1624 =
WP/RE/8 AR
Nr 1410/EX 1634 =
WP/RE/8 AR
QSY NR 29 QSY NR 29

6817 kHz, 24-07, 0821 UTC, i.p.

SK.. (Appears to be a callsign)
FF NR 1479/EX 1621 =
K2N8/O0W5 AR
NR 1479/EX 1621 =
K2N8/O0W5 AR
NR 1479/EX 1621 =
K2N8/O0W5 AR
QSY 13 QSY 13 VVV

10183 kHz, 24-07, 0748 UTC, i.p.

3UTD 4DTU TN45 75NU (Cont'd) AR K
R HR WK NR NR 546 K
R HR 7G GA K (Both stations on this frequency)
R RPT K
R M EEEE HR 7G GA K
R GA
R 7G NR 6453 CK EEEEEEE
NR 6453 CK 100 49 0724 1500 RMKS 6919 TO 6948 K
R GA K
R 7G = =
4U7A .A.U T4.. (Cont'd)

10861 kHz, 24-07, 0809 UTC, i.p.

4N3D U635 T4U7 3D5A 7DT5 U6N4 (Cont'd) AR AR K
R QSL 1610 K (Both stations on this frequency)
OK OK
SK SK
SK SK

5643 kHz, 24-07, 0843 UTC, i.p.

R R AS AS
RPT 45W RPT 45W K
RPT 45W RPT 45W K
R R RPT 56W 56W K K
RPT 56W 56 EEEE RPT 56W K K
RPT 67W 67W
R RPT 88W 88W K
R AS
RPT 89W 89W
RPT 89W K

R RP 95W 95W K K
RPT 95W 95W K
RPT 95W 95W K K
QSL QSL 1657 1657 K
R SK SK

6661 kHz, 24-07, 0906 UTC, i.p.

VV 3KMJ DE VP4M K
R QSA 3 K
HR IEC = 5TGB C K
R HR NR 1 EEEE HR WK NR 18268680 K
R HR 7G K
R 7G NR .484 CK 61 24 0724 1700 RMKS 1826868 TO 1626862 =
A3DU 34NU UA3D (Cont'd) AR K
R U GA

6686 kHz, 24-07, 0827 UTC, i.p.

45T GV5 FF F NR 1413/EX 1634 =
WP/RETREEE =
WP/.8 AR
NR 1410/EX 1624 =
WP/RE/8 AR
Nr 1410/EX 1634 =
WP/RE/8 AR
QSY NR 29 QSY NR 29

6817 kHz, 24-07, 0821 UTC, i.p.

SK.. (IP - Appears to be a callsign)
FF NR 1479/EX 1621 =
K2N8/OOW5 AR
NR 1479/EX 1621 =
K2N8/OOW5 AR
NR 1479/EX 1621 =
K2N8/OOW5 AR
QSY 13 QSY 13 VVV

10183 kHz, 24-07, 0748 UTC, i.p.

3UTD 4DTU TN45 75NU (Cont'd) AR K
R HR WK NR NR 546 K
R HR 7G GA K (Both stations on this frequency)
R RPT K
R M EEEE HR 7G GA K
R GA
R 7G NR 6453 CK EEEEEEE
NR 6453 CK 100 49 0724 1500 RMKS 6919 TO 6948 K
R GA K
R 7G = =
4U7A .A.U T4.. (Cont'd)

10861 kHz, 24-07, 0809 UTC, i.p.

4N3D U635 T4U7 3D5A 7DT5 U6N4 (Cont'd) AR AR K
R QSL 1610 K (Both stations on this frequency)
OK OK
SK SK SK SK

3240 kHz, 27-07, 1448 UTC, i.p.

NR 4555 CK . 9 44 0727 2240 RMKS 3211470 TO 3211472 K
R HR RPT
NR 4555 K
R = = A7.N A64U 46T7 DAU7 (Cont'd)

3269 kHz, 27-07, 1451 UTC, i.p.

= D747 4A7U 35T4 ADD6 (Cont'd) AR

R R

R HR NIL SK GB K

4574 kHz, 27-07, 1353 UTC, i.p.

TO 9210 K

R

GA (Both stations on this frequency

= N6AN 73TA U55A AN67 AA3D (Cont'd)

4652 kHz, 27-07, 1355 UTC, i.p.

7G NR 253 7 CK E E E

7G

NR 2537 CK 61 54 0727 2150 RMKS 3211078 TO 3211075 K

K

A3U4 N567 NT56 D7A3 A3UT (Cont'd)

4767 kHz, 27-07, 1359 UTC, i.p.

VV 7XLA 7XLA DE B2XN K

R QSA 3 I EEEEE ER EEEEE R QSA 3 IEC = 8WF7 AR K

R IEC = 8WF7 AR K

IEC AR EEEEEEE IEC = 8WF7 AR K

R OK HR WK NR 32110740 K

R HR MSG GA K

MSG NR 1445 CK C1 54 54 0727 =

MSG NR 1445 CK .1 54 0727 2150 RMKS 3211074 TO 3211072 K

U43T 4U7D ATU7 D657 3AND (Cont'd)

5110 kHz, 27-07, 1405 UTC, i.p.

MSG GA K

7G NR 4785 CK 62 37 0727 2159 RMKS 1826927 TO 1825921 K K

= 3U64 5AD6 63NA U476 A65D (Cont'd)

5479 kHz, 27-07, 1038 UTC, i.p.

U47D NA47 364N (Cont'd) AR

MSG

NR 2540 CK 61 36 0727 2100 RMKS 3211646 TO 3211641 =

5N4U 4A3. UD46 NUA4 (Cont'd) AR

AGN

NR 2541 CK 61 .8 0727 2100 RMKS 3211646 TO 3211641 =

5U7N A.7N 4U6N 5NU7 (Cont'd) AR

MSG

NR 2541 CK 61 28 0727 2100 RMKS 3211646 TO 3211641 =

5U7N A67N 4U6N 5NU7 7A6

MSG

MSG NR IA

MSG

NR 2542 CK 61 65 0727 2150 RMKS 3211646 TO 3211648 =

547T 6A45 6T7D 4TN7 (Cont'd) AR

MSG

NR 2543 CK 61 3. 0727 2150 RMKS 3211646 TO 3

MSG

NR IA N

MSG

NR 2543 CK 61 36 0727 2150 RMKS 3211646 TO 3211648 =

54.T N6D4 746U 4TNA 64ND (Cont'd) AR

MSG

NR 2542 CK 61 65 0727 214 RMKS 3211646 TO 3211648 =

547T 6A45 (Cont'd)

MSG
NR2543 CK 61 36
MSG
NR 2543 CK 61 36 0727 2150 RMKS 3211646 TO 3 R K
MSG NR I
MSG
NR 2543 CK 61 36 0727 2150 RMKS 3211646 TO 3211648 =
5.AT N EEE D... (Cont'd)

11182 kHz, 27-07, 1009 UTC, i.p.

NUD7 DA6U 6UT5 53U4 (Cont'd) AR K
NO K
GA
QSL 1816 K
HR GA 7G
NR 2.4 CK 61 68 0727 1750 RMKS 1826326 TO 1826324
HW GA =
U37D 364U (Cont'd) AR
QSL ? K
N RPT
N NO

4101 kHz, 29-07, 1352 kHz, i.p.

R GA
NR 6248 CK 79 25 0729 2150 RMKS 8860949 TO 8860947 K
R = 4NWU A4U7 6TA4 U75T NTA3 (Cont'd) AR K
R PT 9W = 453N AR
7G GA K

4123 kHz, 29-07, 1605 UTC, i.p.

PXI1PXI JPXI JPXI JPXI
FFF NR 1128/EX 006 =
KY34/QZ5. AR
NR 1128/EX 06
KY34/QZ5B AR
NR 1128/EX 0006 =
KY34/QZ5B AR
QSY 10 QSY 10 VVV

4163 kHz, 29-07, 1633 UTC, i.p.

GB4S GB4S
R IEC = WA7V AR K
IEC = WA7V AR K
R U WK ER OK K
R AS
R AS
VV EFF1 EFF1 EFF1 DE GB4S GB4S K
IEC =
R U... RA K
R AS
VVV Y4E DE GB4S K
R IEC = 9MJQ AR K
R U WK NR GA K
.... DE GB4S K
M QWUV QWUV QWUV DE GB4S GB4S K
IEC = K
U WK NR GA K
VVV 5PGV 5PGV 5PGV DE GB4S GB4S K
R IEC = UEEEEEE IEC = IU9M AR K
R U WK NR GA K
R VVV N9UA N9UA DE GB4S HR CQ F GA

HR CQ F GA
 FFF NR 1108/EX 0042 RMKS CQ =
 Q2Y4/T9U8
 NR 1108/EX 0042 RMKS CQ =
 Q2Y4/T9U8
 NR 1108/EX 0042 RMKS CQ =
 Q2Y4/T9U8 AR
 VVV 2GSF 2GSF DE GB4S K
 R VVV D5SR D5SR DE GB4S K
 R VVV EFF1 DE GB4S K
 R VVV EY4. DE GB4S K
 R VVV YWUV DE GB4S K
 VVV 5PGV DE GB4S K
 R VVV N9UA N9UA DE GB4S HR CQ GA
 HR CQ MSG GA
 MSG NR 1189 EEEEEEE
 MSG NR 110/ 44 070 3 RMKS CQ =
 TD75 67.T NA53 4DTT (Cont'd)
 RPT 35W = 7357 7357 AR K
 R VVV D5SR DE GB4S K
 RPT 02W = 677T 677T AR K
 RPT 01W = TD75 TD75 AR K
 RPT 07 = T5UD AR K
 RPT .. EEE RPT 09W = TU7N AR K
 RPT K
 RPT 21W = 4U3A AR K
 RPT 21W = N7AT K
 R VVV EFF1 DE GB4S K
 R VVV EY4E DE GB4S K
 R VVV QLMV QWU4 DE GB4S K
 VVV 5PGV 5PGV DE GB4S K
 VVV SVEEEEE
 HR M EEEEE HR WK NR 1014 HR WK NR 1014 SK SK SK

5094 kHz, 29-07, 1408 UTC, i.p.

QSA ? K
 DE XDJ2 QSA ZK
 ZVL. DE XDJ2 QSA ? K
 2VKN DE XDJ2 QSA ? K
 8VM8 DE XDJ2 QSA ? K
 .89P DE XDJ2 QSA ? K
 A8GE DE XDJ2 QSA ? K
 DRM. DE XDJ2 ZQSA 2 K

M95

4243//9054 kHz, 13-07, 1147 UTC

HR MSG TO YR PSE CY
 NR 013 19 35 0713 1457 =
 5TD UTT TA3 3UT 53A (Cont'd) AR
 7G AGN
 NR 013 19 35 0713 1457 =
 5TD UTT TA3 3U6 3A4 354 374 (Cont'd) AR
 A HR 7G GA
 NR 021 23 35 0713 1.40 =
 UT5 TA3 3U6 3A4 TTA TTU TT3 773 456 (Cont'd) AR
 A HR 7G GA
 NR 26 149 35 0713 1705 =
 UTU TA3 3U6 3A4 TTU 773 (Cont'd)

8073 kHz, 13-07, 1140 UTC

V BNGC (x3) DE XSV85 (x2)

HR 7GS PSE CY

NR 0556 CK 44 35 0713 1553 =

TT. N5U TA3 N53 (Cont'd - running cut numbers together) AR

NR 0557 CK 115 35 0713 1658

TA3 3U6 3AN 3U7 (Cont'd)

4364//8073kHz, 25-07, 0013 UTC, i.p.

3D6 4DT 4D4 TUU 773 354 (Cont'd) AR

A HR MSG GA

NR 0613 CK 58 35 0725 0715 =

TT7 N5U TU5 N53 TT6 (Cont'd) AR AR

NET EEEE BOZ USB WK K

4364//8073 kHz, 25-07, 1138 UTC

V BNGC (x3) DE XSV85 (x2)

HR MSGS GA PSE CY

NR 0615 CK 280 35 0725 1543 = =

3U6 3AN 3U7 TAA 773 356 4AA NN3 (Cont'd)

4243//9054 kHz, 25-07, 1145 UTC

VV HR 7G TO YR PSE CY

NR 037 CK 20 35 0725 1445 =

5TD UTT TU5 3U6 3A4 356 36T 4T3 N3D 4T7

U7U N4A 444 3DA TTU TT3 773 435 3DU 4D4 AR

7G AGN

NR 037 CK 20 35 0725 1445 BT (Repeats message) AR

A HR 7G GA

NR 50 CK 128 35 0725 1625 =

UTU TU5 3U6 (Cont'd)

UM03 – Chinese X2M net

All logs and comments were submitted by JPL. Thanks for that.

11200 kHz, 24-07, 0804 UTC

possible UM03 i.p. AYTL GYEWLP LGJTMI JM.. ZOXP. ...

6700 kHz, 24-07, 0830 UTC

possible UM03 i.p. LXDFN ZVNRA ROJEC G..DO ...

10462 kHz, 26-07, 1051 UTC, i.p.

KCETW OO.IX BQSKC EWFUU RUJOB HZWRU PSJJB (Cont'd) AR

09 09 CK 100 CK 100 TIME 1752 TIME 1752 DATE 2607 DATE 2607 =

TWLNC .ODF. DGJY. (Cont'd) AR

11 11 CK 100 CK 100 TIME 1757 TIME 1757 DATE 2607 DAE 2607 =

BQSKZ UWLOD .OD.V (Cont'd)

Stopped in the middle of the message at 1100 UTC

Note:

I have previously logged transmissions like the one found on 10462, but very rarely. Could this be the "outstation" QSLing for the message received?

JPL logged this M89 station prior to UM03 and comments: "As you know, M89 stations like to play with similar frequencies, i.e. 6840 / 4860. In this case, one station is on 10462, while the other is on 10642. A coincidence? Maybe..."

10642 kHz, 26-07, 1044 UTC, i.p.

LMQP DE WZNC (Cont'd)

VVV LMQP (x3) DE WZNC (x3) =

YR NR 15 MSG QSL TIME 1826 AR (Cont'd)

7920//8250//8410//10462 kHz, 27-07, 0946 UTC, i.p.

AR

57 57 CK 100 CK 100 TIME 1646 TIME 1646 DATE 2707 DATE 2707 =
WLODF OGJYA DQSKZ LNCFU JAPSB (Cont'd) AR
59 59 CK 100 CK 100 TIME 1651 TIME 1652 DATE 2707 DATE 2707 =
VPEZI ARUDS MBVKE WYNQF (Cont'd) AR

7920//8250//8410//10462 kHz, 27-07, 0948 UTC

CQ (x3) DE X2M (x2) VVV (x3)

MSG (x2) ENG (x2)

CQ (x3) DE X2M(x2) VVV (x3)

MSG MSG (x3)

61 61 CK 100 CK 100 TIME 1658 TIME 1658 DATE 2707 DATE 2707 =
PJYAS JBKWL OLUS. EWLFD FHDSM (Cont'd)

8410//10462 kHz, 29-07, 0624 UTC, i.p. New time slot.

AR

CQ (x3) DE X2M (x2) VVV (x3)

MSG (x2) ENG (x2)

CQ (x3) DE X2M (x2) VVV (x3)

MSG (x2) ENG (x2)

MSG

.. .. CK 100 CK 100 TIME 1326 TIME 1326 DATE 2907 DATE 2907 =

....A RUJLA BQSKZ LDXMG YSKTI (Cont'd) AR

43 43 CK 100 CK 100 TIME 1333 TIME 1333 DATE 2907 DATE 2907 =

XMPEY WYNQF PRJSK (Cont'd)

Stopped in the middle of the message. Silent at 0636 UTC.

7920//8250//8410//10462 kHz, 29-07, 0942 UTC, i.p.

AR

59 59 CK 100 CK 100 TIME 1641 TIME 1641 DATE 2907 DAE 2907 =

4UAD7 ..NTD NT.57 374NT (Cont'd) AR

ZOJ5 (0947z)

CQ (x3) DE X2M (x2) VVV (x3)

MSG (x2) ENG (x2)

CQ (x3) DE X2M (x2) VVV (x3)

MSG (x2) ENG (x2)

MSG ENG

61 61 CK 100 CK 100 TIME 1647 TIME 1647 DATE 2907 DATE 2907 =

D4UAN 3NT65 73D4N T653U 4T6D7 3U5AN (Cont'd) AR

63 63 CK 100 CK 100 TIME 1653 TIME 1653 DATE 2907 DATE 2907 =

D4TA5 .D4UA U5N6T 3N475 (Cont'd) AR

65 65 CK 100 CK 100 TIME 1659 TIME 1659 DATE 2907 DATE 2907 =

73NT4 673.. (Cont'd)

Silent in middle of message at 1005 UTC)

8410//10462 kHz, 29-07, 1012 UTC, i.p.

AR

69 69 CK 100 CK 100 TIME 1711 TIME 1711 DATE 2907 DATE 2907 =

3U575 ADUN6 D7N5T 4TU63 (Cont'd) AR

71 71 ck 100 CK 100 TIME 1717 TIME 1717 DATE 2907 DATE 2907 =

63U4T 3TUD. 6U4DA N5367 (Cont'd) AR

73 73 CK 100 CK 100 TIME 1722 TIME 1722 DATE 2907 DATE 2907 =

ANUD6 N5A3U (Cont'd) AR

75 75 CK 100 CK 100 TIME 1728 TIME 1728 DATE 2907 DATE 2907 = (Cont'd)

Note: It appears that the reason X2M stops in the middle of a message is due to a change in frequency(ies).

I was monitoring 7920 when transmission stopped in middle of message. Later found that 8410 and 10462 were still active, but 7920 and 8250 were silent. A search was made for other // frequencies to 8410 and 10462, but none were found.

8410//10462 kHz, 30-07, 1034 UTC, i.p.

13 13 CK 100 CK 100 TIME 1733 TIME 1733 DATE 3007 DATE 3007 =
T3A7N D4U5A NT5D6 3NT6A U33N5 75D43 (Cont'd) AR
15 15 CK 100 CK 100 TIME 1739 TIME 1739 DATE 3007 DATE 3007 =
DAN4T 3NT6A U43NT (Cont'd) AR
17 17 CK 100 CK 100 TIME 1745 TIME 1745 DATE 3007 DATE 3007 =
NTDU5 3NT6U T6374 (Cont'd) AR
19 19 CK 100 CK 100 TIME 1751 TIME 1751 DAGE 3007 DATE 3007 =
.3A4T 3A4TN A735. 6A4UD (Cont'd)

7920//8250//8410//10462 kHz, 31-07, 0904 UTC, i.p.

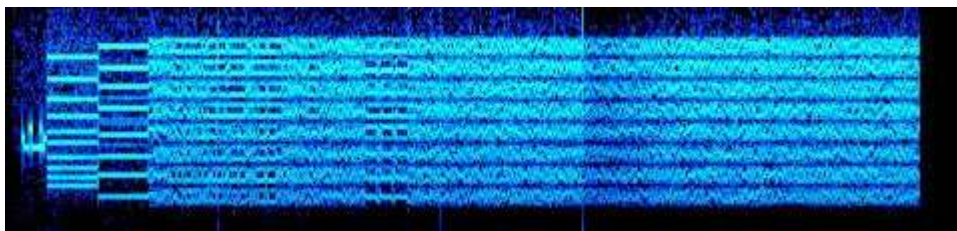
51 51 CK 100 CK 100 TIME 1606 TIME 1606 DATE 3107 DATE 3107 =
.NPEK ZBRTI ACTIL GY.WQ LGJYH (Cont'd) AR
53 53 CK 100 CK 100 TIME 1611 TIME 1611 DATE 3107 DATE 3107 =
ODGVX MPEGY TIZCR UJLMO (Cont'd) AR
55 55 CK 100 CK 100 TIME 1617 TIME 1617 DATE 3107 DATE 3107 =
VKMBE TWLNC XZPEN PGWYN (Cont'd) AR
57 57 CK 100 CK 100 TIME 1622 TIME 1622 DATE 3107 DATE 3107 =
W.O.F OGJYA BQSKZ (Cont'd) AR
59 59 CK 100 CK 100 TIME 1626 TIME 1626 DATE 3107 DATE 3107 =
VPEZI ARUDS MDHKE (Cont'd) AR
ZOM15
CQ (x3) DE X2M (x2) VVV (x3) (0932z)
MSG (x2) ENG (x2)
CQ (x3) DE X2M (x2) VVV (x3) (0933z)
MSG (x2) ENG (x2)
MSG ENG
41 41 CK 100 CK 100 TIME 1632 TIME 1632 DATE 3107 DATE 3107 =
FHWZO RUJLA BQSKZ LDXMG (Cont'd)

UM10 - 10-minutes net

6790 kHz, 13-07, 1025 UTC: UM10 with an interesting error: JATD was repeated for 10 minutes and at the end HDNA was sent twice. This proves that both are transmitted from the same site. Was it an announcement or an error? The next day HDNA popped up

3542 kHz, 17-07, 1457 UTC HDNA //4116 kHz
3542 kHz, 19-07, 1726 UTC HDNA //4116 kHz
6790 kHz, 24-07, 0825 UTC JATD
6790 kHz, 25-07, 0027 UTC JATD
4116 kHz, 27-07, 1352 UTC HDNA
4116 kHz, 29-07, 1351 UTC HDNA

HM01 - Dirección General de Inteligencia



Besides the repetition cycle several other oddities have been noticed:

On 8 July during most of the slots two identical HM01 transmissions were mixing

11530 kHz, 13-07, 1658 UTC Windows sound then the usual groups 61902 10661 06628 06223 06222 07512

17480 kHz, 15-07, 2154 UTC 61900 48768 06626 06221 06221 07511 (groups of 11 July). Early start, interrupted at 2158z by Radio Havana Cuba, then back to HM01

11435 kHz, 18-07, 1600 UTC Windows start up sounds and Windows sounds during the transmission

11435 kHz, 19-07, 1556 UTC Mixing with Radio Habana Cuba

HM02

Each transmission starts with a FSK-19.8bd/129Hz intro sent for 1 minute and is followed by a message in 40WPM FSK-CW. The message is sent twice.

7761 kHz, 25-07, 0600 UTC

571 63 =

88866 27271 75674 45980 70859 82774 99148 40262 56013 74090
60712 40642 36432 09905 78362 37729 54110 17411 50153 40331
71511 17428 64118 64894 91691 61175 71971 17596 76218 84979
81759 86114 99828 59964 47834 41166 71737 88877 42345 03685
10923 86864 78246 89695 98159 08270 97144 39405 30349 74290
92131 91197 81956 67041 81290 88081 03609 72554 08817 71219
54050 19565 70710

= 571 63 571 63 = repeats message = 571 63 000

No transmissions on 26, 27 and 28 July.

7761 kHz, 29-07, 0601 UTC

606 59 =

62357 98493 10125 28275 52995 71760 14131 26148 22777 39694
37176 10728 94380 31871 01924 49143 08216 10347 46737 56922
09186 47993 32983 79645 19958 53535 57222 13691 01764 47919
32667 26794 91069 22010 47124 05149 01408 30305 06051 37444
42673 61326 83467 13917 94857 35107 11461 32137 97647 66633
01105 30779 17948 11483 29844 06375 66043 87805 69229

= 606 59 606 59 = repeats message = 606 59 000

7761 kHz, 30-07, 0601 UTC

911 57 =

41333 84171 06322 49019 01289 26869 27808 60401 29260 36150
66686 04729 87771 10435 47721 78000 34811 03682 55920 44797
45925 04721 39473 89622 24904 34164 36319 52396 63710 41395
60225 34766 75996 97182 79771 73758 88668 44269 95470 65181
86224 57114 97992 74444 69383 06999 51941 86344 24152 36961
93150 10005 25323 51846 52632 52819 79331

= 911 57 911 57 = repeats message = 911 57 000

61216 77841 69172 65603 65408 71574 57472 84085 36797 93624
44320 56673 68327 78508 26292 61235 99320 47716 10231 03936
95331 77724 97054 57016 30831 82171 36365 50590 41908 44119
31545 16875 41185 59364 00027 10301 12119 76713 18434 51940
24891 46169 07260 71687 41063 10965 34801 46636 99191 04387
44999 59073 98586 37314 38910 22553 23402 87425 64467 49468
74244 25995 94231 58562 99493 43231 95823 45821 43510 58084
24713 67182 53931 23467 94062 06502 15237 62814 01308 27200
00762 98941 16164 31052 60368 61117 59744 72533 85942 81293
29486 02174

11100 60070 25413 05014 03049
83766 81482 05193 26551 08245 20568 73038 72712 97856 83233
62424 15058 62337 47816 88340 20108 67178 81210 57408 56687
10092 14917 16849 84514 82718 47352 34802 99537 16036 64624
72927 40684 32887 96940 37223 87737 56082 52861 18017 05001
45501 98558 55043 10464 62639 729 88563 75129 86031 65301
82453 82218 25988 69195 3020200913 12093 27237 79761 54348
51889 11486 38179 86521 84189 85122 41950 5LG459 78109
04038 23853 32701 45356 73481 77252 31281 99603 68547 57178
81131 36195 69350 56167 79775 91935 80880 79039 25598 05215
02389 33538 89815 69590 64044 57402 70570 98016 16824 11548
77594 39904 86559 94051 20871 18194 28079 54619 01746 78651
40390 14239 29909 68540 28829 19685 14704 86885 25124 87583
04178 73508 01306 17711 70329 29015 38403 80218 63992 82926
35855 06472 87769 52148 72599 38191 60487 56953 55736 14576
71579 86674 17750 02111 48855 32293 48181 96732 88085 28103
70731 53046 17839 69655 01696 20281 98009 00147 50694 89673
75476 82465 49618 82962 45327 99057 20740 36680 91087 46825
19920 61942 0239 1921681584908441V 93523 92724 91262 94085
71295 59963 77065 59741 25653 76504 55304 87477 41495 13688
91922 28287 55108 34561 85247 64200 03673 35163 41124 27739
41273 18316 10655 34354 19851 92134 51473 32544 58531 10420
98490 01331 49769 97149 55052 49796 75751 22217 40438 98340
33490 20650 54654 46386 92036 72454 46444 56179 30274 85304
95459 07399 28708 47244 44531 02257 13696 41597 42969 25764
77557 41274 86845 90869 23007 24660 67179 23149 05330 80268
61969 64723 70757 92359 33017 02114 14471 24697 13468 47705
06664 44636 97015 29507 60118 54740 64700 68910 37719 24088
10246 51113 23344 36496 49869 17913 04571 97803 27496 37551
40644 69443 51330 31291 14127 20455 22701 61425 89684 15153
43143 10397 28433 78624 10623 05721 31292 07245 40877 70386
09782 16401 74776

QRU QRU SK SK

12154 kHz, 10-07, 1206 UTC (16111 kHz unreadable)

ROP ROP ROP QSY 16111 QSY 16111

ROP ROP ROP QSY 16111 QSY 16111

ROP ROP ROP QSY 16111 QSY 16111

BK BK ROP A

QSA 4 N

R NIL K

NIL SK SK

M42b – FSK 50/500

7805 kHz, 31-07, 1201 UTC

TJPZ QTC 1

SVTV de TJPZ QTC 1

SVTV de TJPZ QTC 1

NW NW =

746 25 31 1200 8572 =

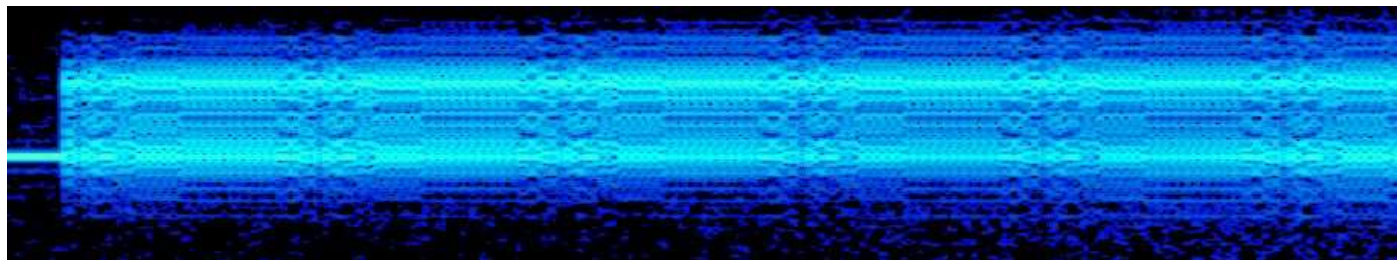
08795 65308 79461 97287 59832 09483 78560 32647 23567 86312

97385 68748 30210 94236 70532 64631 26775 87329 05093 12784

90631 27865 87329 87538 29047

QRU QRU SK SK

F01 – FSK 200/500



16147/14389/12214 kHz, 01-07, 1910/1920/1830 UTC)5761 00000+++++++162

16147/14389/12214 kHz, 08-07, 1910/1920/1830 UTC)5761 00000+++++++162

16147/14389/12214 kHz, 15-07, 1910/1920/1830 UTC)5761 00000+++++++162

16147/14389/12214 kHz, 22-07, 1910/1920/1830 UTC)5761 00000+++++++162

16147/14389/12214 kHz, 29-07, 1910/1920/1830 UTC)5761 00000+++++++162

14829/12214/10932 kHz, 05-07, 1840/1850/1900 UTC)5761 00000+++++++162

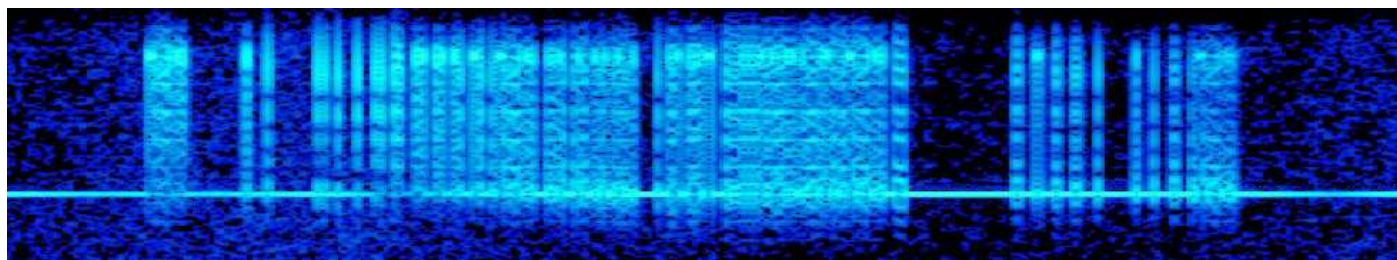
Link 00016 via Cuba

18562/16218 kHz, 28-07, 2230/2240 UTC

11177 00116 68419 27030 01239

[Date is one day earlier than the broadcast date - unlike most messages.]

F06 – FSK 200/1000



Link 00000

Last year's exercises started on 24 June and ended on 24 July. This seems to be an annual exercise. This year the exercise started on 2 July and ended on 28 July.

11122/9067/6791/12167/9937/7526 kHz, 04-07, 1700/1710/1720/1730/1740/1750 UTC

11166 00000 23715 03053 00049

11111 00012 53002 00000

11100 00000 19458 03054 00549
61967 74126 16467 47536 82947 01468 32088 53725 21794 72611
66144 82837 06594 69260 88194 66646 81735 15984 29516 74966
47829 48518 00457 60763 81008 79048 94533 29582 73818 69393
91323 06728 64870 48041 85391 00640 49459 31969 39137 85892
88321 39186 89260 54261 56724 02936 61526 07301 01075 23497
73516 88849 54052 00000

10687/7992/5913/11611/9425/6957 kHz, 04-07, 1800/1810/1820/1830/1840/1850 UTC

11166 00000 02678 03012 00049
11111 00011 12002 00000

11100 00000 53947 03013 00669
94165 72547 08057 89572 71803 55257 54266 84200 64300 21860
55133 04382 26285 14806 12509 01953 05878 94404 33418 94801
80285 60527 50772 96815 74295 88850 76625 11605 97628 61348
62709 82173 62067 95698 66245 13748 64313 03316 58825 11922
45502 30673 51799 03336 63316 63620 36596 31050 37634 99372
63432 41827 55648 15868 06832 07479 47401 93169 91400 47499
67657 66608 76295 45144 13064 00000

9481 kHz, 06-07, 0950 UTC

11100 00000 21547 06012 02549
41702 69225 97855 52863 95990 21129 64680 48404 05286 48125
15057 41240 94051 14015 50392 25394 42341 43735 93791 83451
73406 80191 67952 44806 88683 77900 57154 64316 04820 06891
20501 57307 72443 65295 48633 51860 81355 24072 81081 44328
81839 52289 26446 68999 76768 96418 52604 17875 64203 12065
39121 71467 35161 71579 09053 26580 56254 95985 82337 31996
91873 84660 17948 68008 45617 41209 37010 30746 25637 18966
44058 07212 63604 34561 88626 51986 41972 22993 34359 01531
09231 32645 27829 87021 87834 83672 84247 31655 04494 38216
32256 43373 97515 55861 84996 38923 80890 32795 29624 60212
69792 48084 52475 68879 97199 65532 42065 30033 76319 64526
37101 21078 88494 98333 11711 26587 01288 03276 15056 05138
46427 07219 07534 39062 12311 10815 60746 03047 30742 39942
13426 12512 62586 92763 00510 37718 12056 29862 97539 94532
24282 80870 47585 47792 45880 66053 62873 88198 53192 56255
18314 68693 77891 19679 79104 11237 84635 28903 29607 19936
80459 26604 95678 61460 60599 73401 77652 98674 20417 26265
36143 88442 88140 20938 97878 79512 58082 56786 73735 71453
29036 07541 06166 20554 77538 06346 88216 03637 20678 78569
21304 75713 48149 20796 03958 82435 28223 49457 68704 13262
17339 67524 09279 06281 27992 22705 65363 40641 34612 55580
57029 77511 22117 61123 86071 35512 06828 12033 46429 11560
84440 17322 10873 83059 84724 14594 86151 52380 37663 19455
53780 19553 80690 80482 38662 94129 61743 13211 72730 82142
17791 11544 45799 09094 33545 60057 60800 64920 10037 95613
35615 81870 12252 00000

11122/9067/6791/12167/9937/7526 kHz, 06-07, 1700/1710/1720/1730/1740/1750 UTC

11166 00000 18352 05055 00169
48714 89706 59977 13908 48236 12302 52389 77930 98471 33465
90729 94372 03048 35730 55014 00000

11166 00000 27534 06056 00049
11111 00020 56002 00000

10687/7992/5913/11611/9425/6957 kHz, 06-07, 1800/1810/1820/1830/1840/1850 UTC

11166 00000 81045 05014 00179
21060 59110 89618 48690 80568 20032 06516 28387 83055 76819
36907 89237 85753 14290 26606 14015 00000

11166 00000 14570 06015 00049
11111 00019 15002 00000

11122/9067/6791/12167/9937/7526 kHz, 08-07, 1700/1710/1720/1730/1740/1750 UTC

11166 00000 27534 06056 00049
11111 00020 56002 00000

11100 00000 75319 07057 00579
80575 84726 73639 11171 49543 49280 83968 45438 58095 98739
66144 62101 05397 33582 25748 31272 49885 60425 38134 64816
79480 36819 57399 23699 67050 42309 32322 82064 09563 67958
24342 52744 74367 41508 02129 03873 01048 30380 25321 21314
32271 89689 53356 96565 72087 47469 40338 44847 95098 44286
01875 83043 54952 69445 64831 57055 00000

Note: The first message is a repeat of 2017-07-06.

10687/7992/5913/11611/9425/6957 kHz, 08-07, 1800/1810/1820/1830/1840/1850 UTC

11166 00000 14570 06015 00049
11111 00019 15002 00000

11100 00000 46821 07016 00669
72712 29597 69052 19164 47188 66164 37980 19926 60026 17588
55133 23878 67539 00071 09478 93293 36542 99910 08878 21684
87290 56937 06816 57320 04878 90244 41891 83898 36274 52132
79480 36819 57399 23699 67050 42309 32322 82064 09563 67958
37891 06762 15195 21222 13089 18127 81997 70658 65025 39754
90776 72355 35469 66498 20858 23210 85239 59172 34872 04222
33582 60164 50600 08473 16064 00000

Note: The first message is a repeat of 2017-07-06.

11122/9067/6791/12167/9937/7526 kHz, 10-07, 1700/1710/1720/1730/1740/1750 UTC

11100 00000 31579 09058 00529
00509 15072 38270 21339 72876 40564 99132 68347 99807 26760
66144 06954 68926 08920 22665 00813 66443 32825 99864 55555
85723 66346 99462 45443 54303 03295 46156 47152 96555 45496
23851 29124 74190 74024 75588 69914 71765 45534 28951 03993
19412 74625 51646 18414 69954 88186 66958 48805 72608 62643
58050 00000

10687/7992/5913/11611/9425/6957 kHz, 10-07, 1800/1810/1820/1830/1840/1850 UTC

11100 00000 75319 09017 00639
60572 56852 63951 81004 64314 47381 01761 26245 23341 65913
55133 05383 73086 33251 79252 44839 24143 69810 30443 52836
74631 26232 89765 22129 17596 89091 71899 10171 35595 22634
30282 20166 99704 32497 19436 31433 15085 62329 21837 52523
80325 59263 19029 95531 52754 69177 11666 95035 36873 47672
18152 20101 38143 97710 06607 52791 49281 69860 39796 31619
61261 17061 00000

11122/9067/6791/12167/9937/7526 kHz, 12-07, 1700/1710/1720/1730/1740/1750 UTC

11166 00000 56973 10059 00159
67446 34845 67447 57170 86515 63662 24908 01809 75083 80845
43521 49169 60883 59013 00000

10687/7992/5913/11611/9425/6957 kHz, 12-07, 1800/1810/1820/1830/1840/1850 UTC

11166 00000 83497 10018 00159
16819 37990 89059 84427 78559 38380 91146 54763 21921 59044
34024 04918 18247 18013 00000

11122/9067/6791/12167/9937/7526 kHz, 14-07, 1700/1710/1720/1730/1740/1750 UTC

11166 00000 81935 13060 00049
11111 00019 60002 00000

11100 00000 15986 13061 00529
18590 79661 61986 68045 43484 36261 52402 91116 83242 04231
66144 86896 97460 31917 95293 07330 66649 00752 92893 57296
00429 59986 93786 50483 35670 11138 66365 07942 48009 59321
45854 29000 25187 73671 05146 89235 75626 24030 06997 45179
70724 86088 98501 50443 44247 32185 33793 12973 97313 49916
61050 000000

10687/7992/5913/11611/9425/6957 kHz, 14-07, 1800/1810/1820/1830/1840/1850 UTC

11166 00000 73519 13019 00049
11111 00018 19002 00000

11100 00000 14287 13020 00659
68132 08177 82911 36002 57850 70560 84008 88445 60218 10025
55133 70438 94035 83043 61821 42596 96824 24469 93756 63319
90742 70845 36036 59030 52497 03733 61578 94888 85703 05249
76154 50696 19123 42994 11784 31649 79208 26564 78053 68657
10420 02838 07272 87887 41716 82208 54415 54243 22684 12974
37798 18449 77727 46048 31400 22446 51772 57196 44788 42761
45897 18980 51583 20063 00000

11122/9067/6791/12167/9937/7526 kHz, 16-07, 1700/1710/1720/1730/1740/1750 UTC

11100 00000 67293 15062 00529
32158 25740 76132 95326 26488 78484 45625 73082 74070 47036
66144 65369 98215 69500 86616 27731 96342 06491 77058 76043
61683 68368 43878 05020 19522 15234 30919 25550 57692 28117
27671 81838 55981 74785 92092 34260 44163 18628 88763 18871
43321 44040 09558 19527 70162 96749 69021 13527 09014 62518
62050 00000

10687/7992/5913/11611/9425/6957 kHz, 16-07, 1800/1810/1820/1830/1840/1850 UTC

11100 00000 73982 15021 00639
94499 25596 27491 94271 65788 91937 92976 11966 12535 51720
55133 09185 55525 18617 27094 39852 07018 42174 51806 80397
06281 79255 31569 03615 07578 27713 63324 07674 44025 39437
13042 30012 15772 54994 57653 00769 75931 27035 70835 15460
12705 24659 13586 31578 51128 35919 15509 18807 22896 10669
57774 17535 77680 10917 93662 85358 34396 60895 67655 36261
95840 21061 00000

11122/9067/6791/12167/9937/7526 kHz, 18-07, 1700/1710/1720/1730/1740/1750 UTC

11166 00000 36987 17063 00259
72995 13245 25168 52697 31071 74447 04988 65907 71572 01078
65946 30778 68677 90102 77726 78272 03335 58963 57013 72873
21892 73079 99795 63023 00000

10687/7992/5913/11611/9425/6957 kHz, 18-07, 1800/1810/1820/1830/1840/1850 UTC

11166 00000 75931 17022 00269
81341 22973 66407 98452 05258 08521 73343 89438 00696 96929
86166 70512 21569 48998 97064 72851 69513 72372 88255 13540
85105 13228 77725 96904 22024 00000

11122/9067/6791/12167/9937/7526 kHz, 20-07, 1700/1710/1720/1730/1740/1750 UTC

11100 00000 69423 19064 00539
48043 83809 14010 18953 23858 26701 44333 33800 33677 50880
66144 80243 89744 80439 70315 28847 28149 87202 66787 69314
45146 66089 33756 81996 73417 10179 59942 02067 21720 02676
33509 06065 26338 67952 66034 75487 87800 48858 47826 17121
91281 02498 95521 44797 34138 31637 77915 52262 09003 93956
30940 64051 00000

10687/7992/5913/11611/9425/6957 kHz, 20-07, 1800/1810/1820/1830/1840/1850 UTC

11100 00000 41982 19023 00639
38641 29199 30224 07718 37913 31935 89357 98533 07077 49969
55133 18511 25509 20690 00097 52479 05215 18453 34591 00906
64918 93786 40171 97471 11673 50194 50533 66585 22176 19485
41304 44271 40986 21587 72837 10882 37810 19760 10053 09062
91070 07171 99018 45395 89926 85734 04958 99195 71934 23194
41368 86853 38549 99355 44943 55187 15637 77414 75977 02240
51201 23061 00000

11122/9067/6791/12167/9937/7526 kHz, 22-07, 1700/1710/1720/1730/1740/1750 UTC

11100 00000 62389 21065 00529
71817 14064 90510 19167 21237 83966 76599 45283 94139 79901
66144 01626 37819 98276 54968 20233 29538 85735 13821 08522
72274 61632 83183 98768 10877 42566 82842 48856 04567 48648
08342 86487 16730 96191 13208 14033 07925 06527 71734 16216
43058 85602 95773 37819 48651 54085 03967 23593 81144 32633
65050 00000

10687/7992/5913/11611/9425/6957 kHz, 22-07, 1800/1810/1820/1830/1840/1850 UTC

11100 00000 10487 21024 00649
91689 62964 87361 38364 07898 00470 74306 55614 34022 66673
55133 07008 24958 35244 96896 18994 37246 85342 24966 18602
88537 92705 39645 98016 99192 31372 47332 45252 64439 28240
11308 95641 30541 37650 93385 83802 73404 28168 56584 00791
03062 98765 14786 86106 42478 66587 40296 09256 54105 93472
65251 20553 12630 43456 37818 75842 47348 88392 19109 64839
02616 03929 24062 00000

11122/9067/6791/12167/9937/7526 kHz, 24-07, 1700/1710/1720/1730/1740/1750 UTC

11100 00000 42567 23066 00529
54621 26229 97595 13478 75162 55128 38572 28386 38014 01862
66144 39489 47550 43363 84477 47794 15511 46900 78535 88511
14121 29425 10325 02170 50395 22872 98771 54655 85084 62604
53772 35860 44675 41193 13838 91635 99904 94711 46331 68731
09206 13746 71240 77412 50541 96288 94423 01441 90049 84722
66050 00000

10687/7992/5913/11611/9425/6957 kHz, 24-07, 1800/1810/1820/1830/1840/1850 UTC

11100 00000 78452 23025 00629
31862 12570 55405 10248 33617 50364 29231 02374 02874 08044
55133 33795 82616 83509 94886 26193 79176 73045 45679 42892
12180 64796 34095 13245 05215 35857 16375 47343 28158 07656
34905 08259 27102 39341 03850 33982 02814 63828 08172 26259
23671 96218 64468 48512 84001 69267 17054 00026 43779 75586
67742 58593 10596 21281 62752 08805 49865 20691 85185 98172
25060 00000

11122/9067/6791/12167/9937/7526 kHz, 26-07, 1700/1710/1720/1730/1740/1750 UTC

11100 00000 52348 25067 00639
74251 46669 85504 02895 28291 84430 20635 52634 59828 18326
66144 61352 83957 99000 71328 78732 70457 57148 28507 87724
85526 55975 04782 03545 55505 53516 97049 19243 63493 29515
00192 65052 14830 56530 81378 73688 32344 19981 99017 68795
21587 12569 32054 12458 18458 23697 12344 12548 69321 45789
67340 16790 14752 18724 37236 87338 71974 22832 25800 60408
52369 67061 00000

10687/7992/5913/11611/9425/6957 kHz, 26-07, 1800/1810/1820/1830/1840/1850 UTC

11100 00000 78456 25026 00649
35411 50294 33466 70381 71588 42528 55574 06604 86077 06763
55133 69500 12343 60975 65514 66500 44931 39888 30079 89997
19226 62488 34146 42931 33099 09023 08426 01181 52639 18407
64853 86214 69152 41978 09109 46434 99623 14532 39565 70644
47815 28586 62339 82089 68201 22801 77155 86491 99924 20500
13690 72538 62956 79222 23092 88240 33647 37252 54371 41607
41872 68052 26062 00000

11122/9067/6791/12167/9937/7526 kHz, 28-07, 1700/1710/1720/1730/1740/1750 UTC

11100 00000 58937 27068 00539
95569 52885 68596 22822 47332 36889 45337 43938 09013 71016
66144 74445 32654 04033 06174 86006 70294 39749 64036 80236
08501 78463 58035 62428 30746 97575 50339 94282 74800 07292
73791 24073 77325 42368 34369 17700 22872 75821 23508 39051
39451 65560 94973 53123 07883 69849 85975 50331 77092 92575
87202 68051 00000

10687/7992/5913/11611/9425/6957 kHz, 28-07, 1800/1810/1820/1830/1840/1850 UTC

11100 00000 79135 27027 00639
90995 01489 54824 99199 01405 98173 56266 70632 50276 54086
55133 23169 42398 03979 65060 91382 27564 56462 91522 97725
98490 52350 03296 48625 65011 04350 56665 64253 96715 79039
52658 65438 51241 07065 31785 66141 30396 32499 64589 44932
31299 37303 17679 93907 84730 01813 99936 68494 97871 87205
18595 86560 43632 50875 99854 50285 63743 30655 53752 89218
77810 27061 00000

Link 00052

15733/13376/11154 kHz, 04-07, 1500/1510/1520 UTC

11166 00052 54086 04062 00049 00000 00000 00000 00000

15733/13376/11154 kHz, 11-07, 1500/1510/1520 UTC

11166 00052 59632 11047 00049 00000 00000 00000 00000

15795/13428/11060 kHz, 12-07/13-07, 0800/0810/0820 UTC

11166 00052 83724 11016 01769
63010 26121 48856 22078 74737 84816 62494 40426 96119 76298
07382 97356 57645 69084 62691 51540 71230 52086 64086 63419
62925 80396 95067 69046 93535 02134 66398 39939 33775 02035
67387 69367 38393 62264 41491 66784 78093 95928 18507 98545
40893 92269 99927 64989 50206 41512 25013 97428 94895 42239
00719 17228 45947 76491 82932 79467 68907 26775 01808 83516
03609 16673 94922 10450 31716 86280 40737 03182 12415 00936
35846 61863 52201 10974 57782 01556 92651 04457 07253 23056
54321 40032 28275 67375 90421 62103 91283 54373 21338 81063
66501 60720 42872 84099 13473 73122 80562 52397 47934 81559
60125 84043 50180 35039 69240 04476 61635 87670 41447 72350
84781 41140 73462 20112 66704 12646 55551 71619 61686 39985
31152 07429 30558 76995 18736 41998 40796 25991 20143 00023
40596 86410 05274 03395 95514 11916 15849 90980 10407 61096
85268 39814 45044 04371 33082 31318 67565 18429 45395 19982
71489 86229 44823 37985 71560 56739 40195 68578 35513 17016
34499 24117 16831 62888 73695 50920 11421 11211 93144 13076
69351 53056 41616 20612 16174 00000

15733/13376/11154 kHz, 18-07, 1500/1510/1520 UTC

11166 00052 82674 18026 00049 00000 00000 00000 00000

15733/13376/11154 kHz, 25-07, 1500/1510/1520 UTC

11166 00052 26497 25083 00049 00000 00000 00000 00000

15795/13428/11060 kHz, 26-07/27-07, 0800/0810/0820 UTC

11166 00052 29135 25017 01789
25980 86135 48856 22078 36607 44820 62494 40426 58089 36202
07382 97356 08651 94785 99642 84289 38813 07192 35748 31271
27683 82475 16092 89882 18196 30476 09671 82418 84646 24791
48678 97251 14476 04291 71019 69963 11139 48318 66359 06029
81272 73956 13375 92409 23130 21090 40681 28970 94244 83907
42510 93280 01911 67898 69724 66519 15763 35614 16148 11315
21913 12415 29939 46761 58433 10978 49001 93036 50005 63153
04577 97006 78306 02824 52379 83698 73009 21604 67691 55890
90132 57228 01116 74650 60087 63958 34950 38137 98014 43244
05827 04017 29270 56565 91329 31499 55216 68959 17374 08523
47250 57401 05663 83743 44025 34624 48087 64517 36381 71170
51285 37759 36464 59714 82034 29524 76219 51392 16387 83343
83401 35884 36305 28264 23031 81701 31497 31285 02365 86027
09589 28036 84385 22800 83029 80463 76339 86396 91826 53002
61261 75536 20878 78696 83555 82999 05333 53743 41751 19964
72052 48632 37392 21774 13756 63100 05375 90962 15040 02116
94746 27386 95506 81783 34729 52800 05126 06875 79348 38669
31256 70476 75324 72580 55659 21198 17176 00000

Link 10031

14948 kHz, 12-07, 0905 UTC

Test: 46464646 46464646 46464646

14948/12176/10177 kHz, 12-07, 0915/0925/0935 UTC

11166 10031 13579 12001 00049 00000 00000 00000 00000

14948 kHz, 26-07, 0905 UTC Test: 12883 53970 54208 86726 95642 16000 00000

14948 kHz, 26-07, 0905 UTC Test: 4646464646 4646464646

14948/12176/10177 kHz, 26-07, 0915/0925/0935 UTC
11166 10031 36987 26001 00049 00000 00000 00000 00000

Link 10053

19466/16189/13576 kHz, 02-07, 1530/1540/1550 UTC
11166 10053 35791 02001 00049 00000 00000 00000 00000

19535/16348/13588 kHz, 04-07, 1650/1700/1710 UTC
11166 10053 56248 04001 00049 00000 00000 00000 00000

19466/16189/13576 kHz, 09-07, 1530/1540/1550 UTC
11166 10053 15328 09001 00049 00000 00000 00000 00000

19535/16348/13588 kHz, 11-07, 1650/1700/1710 UTC
11166 10053 35791 11001 00049 00000 00000 00000 00000

19466/16189/13576 kHz, 16-07, 1530/1540/1550 UTC
11166 10053 56248 16001 00049 00000 00000 00000 00000

19535/16348/13588 kHz, 18-07, 1650/1700/1710 UTC
11166 10053 13579 18001 00049 00000 00000 00000 00000

19466/16189/13576 kHz, 23-07, 1530/1540/1550 UTC
11166 10053 13579 23062 00049 00000 00000 00000 00000

19535/16348/13588 kHz, 25-07, 1650/1700/1710 UTC
11166 10053 56248 25001 00049 00000 00000 00000 00000

19466 kHz, 30-07, 1520 UTC Test: 464646464646 464646464646 464646464646

19466/16189/13576 kHz, 30-07, 1530/1540/1550 UTC
11166 10053 13579 30001 00049 00000 00000 00000 00000

Link 40122

17419/15707/13446 kHz, 05-07/06-07, 0600/0610/0620 UTC
11166 40122 25098 01027 03359
52462 26555 42745 21382 73338 03682 16611 54435 70021 08127
63814 14463 85812 43386 11770 63217 27897 12455 85781 53858
70246 01075 69023 49593 40593 81388 64568 52579 58686 71943
39157 41517 18002 14984 53393 41368 28085 56957 08048 73641
59746 43189 61170 60688 60256 62652 95683 82429 30762 03769
42156 08970 83090 07192 86437 57524 18135 26488 16847 47100
93014 32673 90593 49368 69186 23536 24132 59165 58704 23677
37119 33064 10809 86213 04685 69443 06040 32078 97684 28501
50052 87856 15621 15647 84325 08096 41943 76712 55960 93019
76386 78412 13741 37600 24052 72499 22656 72902 45913 67047
14060 85665 00441 53297 13677 27032 31016 61517 14608 46379
78843 44290 87562 11190 26037 10692 45472 98890 98564 59779
04690 71597 83750 86835 09964 69719 42008 60802 15359 85336
17507 96348 38331 01309 77446 68996 29128 07038 34633 46760
22715 26831 33045 36719 65400 21804 01078 69973 33364 51243
02140 73414 85260 04396 37316 01753 16096 38589 79754 28229
04561 84654 45491 17467 71005 05555 30378 28880 88254 19187
67818 24087 12428 21275 86986 76772 25984 69295 76228 08420
10148 13386 81318 98366 88918 85151 93270 41607 11861 80330
05394 52794 67835 96233 44259 39864 46887 09916 04293 95727
92459 08001 40668 81472 11129 04111 00178 99494 32047 04824
94788 80023 33281 10109 47562 29447 77224 59167 65617 13908

22295 57627 19841 76576 03072 47016 36013 12062 96089 02465
27059 46384 13460 69558 21090 95955 91508 76303 64938 03997
66633 81111 07868 77837 55534 42768 95145 75530 82051 23304
26170 15224 17748 59723 56824 05716 28471 65505 50773 21646
44041 47838 09359 71755 93283 51506 34804 33638 71574 65380
06404 53448 33099 52443 74389 33979 24993 89280 01159 59555
05583 25988 04554 31188 13882 02429 82884 10414 82545 81767
26367 95264 11481 87234 44684 76807 44272 53048 65342 49682
14644 25431 82521 75084 55113 74666 61090 19627 85051 04127
25498 18519 20318 67206 88208 36494 71669 28112 97373 24936
24122 27429 08437 98628 14461 38416 09342 80573 49081 24955
54051 88314 29347 27333 00000

17419/15707/13446 kHz, 12-07/13-07, 0600/0610/0620 UTC

11166 40122 85712 08028 03029
43257 57749 21974 69604 03795 97453 16792 81337 31440 84366
13857 74369 11203 36596 43911 78458 47138 25644 95696 68447
44090 03945 47371 90081 80573 87960 75756 74998 27434 70287
10600 80801 92016 59196 26053 17188 92492 69062 86536 44027
92062 10099 89190 52367 47703 50855 70094 64283 53154 51899
66443 12504 80830 94135 51870 85773 52351 50181 87097 50860
92364 72255 53110 87176 45361 94998 59034 94922 60170 76684
41913 62707 71807 27238 00563 05583 35385 96509 30698 09418
91752 21243 53512 42566 69566 54171 54910 20751 53474 23677
77563 36113 73094 97457 32988 86350 92489 48638 25835 64906
04814 47749 07568 98110 61823 29034 01723 40252 92936 04505
67945 62482 93536 24191 96978 96511 87191 06013 53794 19028
91498 83726 11057 87774 42219 46373 40115 65226 55409 67663
51689 90797 32221 48747 03459 87528 36072 22798 16729 14177
96860 94848 69375 98659 21922 15320 57232 13780 18410 10682
41135 81175 56791 19674 21795 14428 30146 08538 09685 37268
88941 63681 82140 37820 56003 85233 44857 44816 51330 29906
39955 36719 81470 76609 67835 19696 73136 13271 14971 35377
55737 68264 04862 84332 22536 34926 14306 76215 25095 62553
22201 42501 80722 12365 83046 72757 97584 01826 42346 60391
47183 85793 36086 68804 38893 47921 41487 53899 76220 00746
71210 03867 99504 17910 28213 82195 44724 46949 63431 84845
73099 76083 03482 47517 51198 53447 40575 63957 86199 82201
01823 01233 46033 39961 40119 22920 19066 95977 13805 56140
93026 24510 47274 63378 57854 37826 89741 05027 62162 87275
14325 03585 78005 05855 24658 45466 53627 90724 61210 81328
58896 49103 24495 10884 53090 55970 57365 63117 29743 97035
53575 07852 18222 95390 84802 59603 46740 45288 63312 59649
96470 01499 82452 47267 01469 97655 02173 56064 74082 92056
71744 96344 60537 64334 06883 09450 56381 11446 63445 05008
28300 00000

11166 40122 58741 08029 02559
36486 16417 74897 17030 79283 88278 45745 39794 89929 96631
18102 29450 52078 49273 53594 82285 62960 86336 97780 25587
31448 89364 19286 82039 43795 28763 40822 93598 26742 98073
04296 15768 62672 08502 37183 18232 36501 42126 12365 52767
19002 87252 18601 74377 16230 04318 83839 26596 39763 95811
18550 26873 77419 78631 71253 13010 69155 82316 13456 36558
17824 21605 96162 14135 89490 16736 45157 72579 82979 59949
87238 48900 73349 51612 24611 30944 58982 54413 99594 49719
66972 39057 16862 59326 96507 19904 15379 65416 04916 03989
07246 88122 66088 01851 25608 70408 55942 73626 48854 67754
44632 08825 93252 80134 00176 63234 91246 12221 33202 01404
97573 72735 37496 18111 90407 48910 06034 37292 59707 16980
27189 11832 99959 74647 90809 72686 49504 06453 58842 00744

43625 18003 80189 19892 73609 99974 54500 34704 68935 07846
74572 61193 44806 68288 02054 24075 82193 48151 56131 18966
32596 46987 19896 62964 64683 99048 94077 82047 95034 95691
52816 08720 70131 64133 81189 88355 91821 63484 99150 17669
03418 84018 01587 63751 78634 60585 69178 37111 80537 36138
29748 17159 82712 36283 74774 53564 69811 40806 60789 91934
59697 63114 50303 97248 14346 73515 71987 73478 31714 27294
04770 02839 35745 83497 15550 53108 06711 25396 05216 26448
19071 18525 42642 48169 79040 67278 91372 18873 79053 55964
58658 78409 11304 85269 21555 55089 07557 40084 09747 98590
97425 49594 49811 19988 02282 25610 00582 87356 07002 90050
34323 50372 76734 27524 43387 92354 10874 23945 77050 33196
51430 77125 38210 29253 00000

17419/15707/13446 kHz, 19-07, 0600/0610/0620 UTC

11166 40122 45236 19078 00049 00000 00000 00000 00000

17419/15707/13446 kHz, 26-07/27-07, 0600/0610/0620 UTC

11166 40122 17548 22030 03799
89155 47142 91390 43701 83090 06633 69469 94942 32092 58483
77280 48570 31988 11199 79202 10738 09821 56315 89529 10999
78749 61653 32498 71186 26250 31079 34831 36913 15310 29203
42998 32584 03288 94460 82360 25898 08149 89011 00403 12754
76738 58886 61234 58502 34809 02826 83548 56482 23455 73259
39223 89790 51675 57835 54755 07193 19732 14961 82713 49151
92992 61791 35402 84875 30958 38084 97915 46350 01144 94377
62772 70272 32516 77928 53326 83834 88168 14825 28130 95299
61924 11746 83441 75288 28543 25776 96064 39735 02243 75728
73713 70436 83196 93407 05072 34140 96715 38251 26763 86100
54788 23793 49389 69046 94674 29368 09845 43501 74233 95522
42086 10381 28684 26547 83549 11817 18471 48570 59395 21145
22940 96669 11774 57983 59491 29409 66301 89350 32920 94268
52925 02754 44608 92380 23377 62191 16279 16024 32387 82997
07981 57309 74866 86477 35001 11498 96224 20261 13391 23374
18023 55317 88795 50135 46150 95568 28263 39219 53698 61039
79744 44503 55735 30477 28939 29329 18169 54380 08206 29778
67865 74381 37201 76638 96233 09909 99954 99496 73455 98070
88046 61404 15542 97711 64590 97540 71411 93531 28708 56320
22181 61205 85175 66382 09839 80000 48932 77886 37514 01852
39143 51577 08504 16274 42498 94023 96264 68550 50438 62504
62545 19257 99992 87942 65853 55336 72920 89359 27437 88773
32836 78259 46982 03808 05012 76398 85194 38617 28550 95366
55471 12407 35593 51426 91839 33857 37287 14044 85347 51844
21155 11543 06110 34393 89599 42332 53175 86783 94194 65132
99419 44759 45467 66645 23646 03770 02864 30106 47073 70181
74566 53142 16415 45407 81869 88396 00721 78877 67794 05339
94182 50793 54622 96698 42074 70614 80047 77978 32035 02194
66630 53458 17866 51516 04238 47150 68030 77973 50154 22122
56058 15111 76569 36651 35028 11779 20100 10621 63310 29642
13064 00611 73782 57964 01170 07119 03680 31622 77330 62350
27276 63273 86263 72003 58592 25633 79592 09506 16303 44768
26120 86124 68046 90385 06959 45393 96308 74009 50221 55292
53081 91023 84945 96624 95473 67485 18940 71014 19478 97674
70254 76977 34050 83292 06937 27492 42729 10261 74792 07511
24947 24063 17808 94856 34246 89547 20946 92929 55568 46149
29986 48670 88819 94452 28106 54209 50894 75047 73887 55659
13333 25598 30438 17455 17825 27081 40309 30377 00000

Link 40133

17436/15789/13473 kHz, 01-07, 2100/2110/2120 UTC

11166 40133 02574 01032 00049 00000 00000 00000 00000

17436/15789/13473 kHz, 08-07, 2100/2110/2120 UTC

11166 40133 17935 08032 00049 00000 00000 00000 00000

17436/15789/13473 kHz, 15-07, 2100/2110/2120 UTC

11166 40133 13579 15001 00049 00000 00000 00000 00000

17436/15789/13473 kHz, 22-07, 2100/2110/2120 UTC

11166 40133 56248 22001 00049 00000 00000 00000 00000

17436/15789/13473 kHz, 29-07, 2100/2110/2120 UTC

11166 40133 17935 29001 00049 00000 00000 00000 00000

Link 50046

15964/13549/11524 kHz, 01-07/02-07, 1100/1110/1120 UTC

11166 50046 97142 16001 00969
52539 09083 93903 40530 19606 93698 58196 63673 57754 50179
71902 82228 24357 29544 35786 71520 95200 96273 73736 72706
89626 35648 05008 85129 25135 85679 19071 15029 06166 50665
67738 47805 47012 13812 98433 96498 44887 06625 69681 01565
60838 99703 23549 07251 19026 87504 03082 60654 52957 04824
01043 35283 88070 90557 31750 96731 30628 42101 00882 88147
55287 04387 23675 11055 85997 96313 77271 76086 85011 67728
26776 63600 73371 35637 80471 58173 06183 74186 45510 01699
78845 80334 87530 03953 67099 24539 82629 42980 78315 23826
85087 83636 20696 57620 01094 00000

15964/13549/11524 kHz, 08-07/09-07, 1100/1110/1120 UTC

11166 50046 37294 07002 04229
10559 59074 94903 40530 77626 43689 59196 63673 15774 00160
72902 82228 10925 64634 20915 09001 50670 69960 21801 75438
08320 12423 47574 22886 24573 61628 17104 33522 97290 76579
27434 70995 98430 03194 90958 75681 98804 78476 85935 68916
36965 26391 40511 99680 47871 96571 35508 94755 00858 70583
41736 32136 49816 11172 17936 97891 31609 45122 09218 49707
13020 38020 44162 75893 93039 37333 09788 08007 99930 79233
96214 73552 80694 47040 17415 18776 03678 29879 95492 03535
39855 75856 43947 18857 46718 95092 41538 41847 95357 41063
81569 75492 73335 21369 43903 87684 88616 71539 32210 16335
25259 55299 09641 54406 10385 20544 49159 14553 51360 98697
35346 38127 62444 62114 98482 10388 69201 96037 50080 77632
08822 27867 64438 68608 23910 35702 60745 03276 31573 15382
50417 57433 67219 52679 65363 89218 12729 19891 42958 31129
67626 37834 53417 43561 58322 67766 12966 90201 09600 86016
10282 12765 89697 29374 05510 29631 68877 04688 00865 61275
40291 70241 77801 90531 80510 17026 14496 05590 79123 03290
68146 61319 00122 53926 35971 87139 00192 44443 52539 38599
29583 43883 52990 67794 99688 81221 08178 30159 56583 78918
26147 69650 09097 58650 76324 25754 36317 16710 43039 20451
34712 62016 12229 61148 27634 58856 63952 64429 12040 13471
17432 51622 44506 55279 64377 20809 40013 13896 02641 90155
46269 55884 07418 43945 68396 40936 27795 94130 26267 64491
74915 80590 78075 64812 51755 95714 63485 56831 13333 96677
71501 37934 62851 33500 53564 17082 38892 45534 58385 19144
64909 43695 16128 52525 38200 14590 93650 70584 89742 57205

26907 05606 62544 54673 25745 68567 25874 74383 68942 08360
47458 74862 56008 65935 12614 13304 40130 77673 49380 90643
14604 16898 35016 37302 51828 23719 37799 88539 68534 07857
41748 40866 61736 05318 14605 98577 53195 22939 63322 62386
68837 54752 80494 32010 06899 83980 19199 83923 67900 84003
64631 66346 37524 21507 83285 66255 18519 35926 46674 72268
89430 08877 60545 11092 34933 39153 91220 74371 48312 66808
02109 35799 15075 66850 21771 49774 10846 52968 19132 03756
54762 21033 65765 00990 63357 56923 79702 03751 51492 89541
79865 69982 36522 60000 89618 09060 13607 01936 78077 66088
18329 81109 54594 38996 55220 81054 96295 55053 59588 26203
79415 76253 10174 89361 60221 42388 43413 78249 24290 85520
44522 56887 13809 06047 85611 38678 90515 31880 99571 76039
34039 07139 82613 76786 19760 27172 59489 06339 41621 19590
94676 87546 69099 53848 04040 18354 24723 10714 11755 87646
51073 25187 32184 54537 43132 35556 04440 99702 04253 54171
02420 00000

15964/13549/11524 kHz, 15-07/16-07, 1100/1110/1120 UTC

11166 50046 45173 14003 01349
68849 49081 94903 40530 25916 33696 59196 63673 63064 90177
72902 82228 75394 96774 85487 85498 55715 09926 62273 05925
12892 78352 84126 18322 51015 35495 07494 11170 93761 11854
01547 59912 99336 72449 70551 15182 24950 43994 34910 22638
48350 33316 22882 04213 03257 72767 58826 38082 40803 33664
58530 73816 57453 66760 01361 28511 69639 47161 20617 99059
39344 07502 96182 84064 76621 46038 23024 12700 14824 98491
04009 31261 42776 29414 57390 59979 05641 63377 48101 98048
32002 80735 16741 98611 19234 74931 07695 27444 48574 05123
24627 18395 02958 49911 62557 99066 04784 63786 46288 30180
86734 86811 12742 34852 85900 68127 25403 90394 37457 27147
42676 04492 28362 01082 69104 75156 62545 18870 12496 35056
66144 60574 51331 73244 66632 90726 67052 58984 25787 06107
82978 44563 03132 00000

15964/13549/11524 kHz, 22-07/23-07, 1100/1110/1120 UTC

11166 50046 18374 21004 02589
55029 89098 94903 40530 12196 73603 59196 63673 50244 30184
72902 82228 73851 61708 17978 70909 30287 27200 81189 34579
66660 61185 45170 42935 46491 87225 43022 82300 85031 00439
04808 38394 34291 12990 82223 02940 14887 03259 48008 05266
73341 50879 64681 02194 42626 98263 11796 18165 90210 33732
14172 26019 52651 05356 67120 47654 78706 29640 20318 94294
15100 44183 22337 04261 54312 66221 97201 83880 49235 17376
51346 86927 98685 20342 72548 53941 79657 08765 11173 57207
45495 82943 01622 93189 20574 70272 76879 64269 19811 82889
84323 24338 20163 72114 34087 42549 97135 53599 96191 56081
66323 97430 14901 62555 13342 61976 55868 90209 09495 78313
22416 48378 47332 68277 17621 62631 51483 72537 37822 41391
02742 46816 09086 73614 47570 54192 17245 46309 07888 85580
23940 48754 34666 15113 21887 79708 63603 44900 97719 65785
07133 37471 67664 72274 79430 60393 22148 26165 90607 82897
14309 66387 63965 32251 58744 42443 62542 58791 83775 01774
02646 56373 38734 41350 47920 11783 48212 52193 02944 04642
79829 83244 21879 38878 27491 07357 09412 99903 11420 21251
73581 12422 03633 10033 48778 75717 05113 28442 16262 99909
00156 28923 15869 24323 84750 00356 23183 74876 29281 17252
55044 20528 60191 37890 04283 17494 43852 20708 00642 27662
95246 81736 56471 61337 97684 21334 32227 42946 99607 22522
68068 05431 34906 00062 02776 70044 61088 04170 05166 96362
90262 10678 68422 35048 42350 89782 39144 25772 39888 11908

55573 32065 18886 25770 23686 52310 72072 16832 60562 96863
21216 94330 80094 36646 72382 44675 04256 00000

15964/13549/11524 kHz, 29-07/30-07, 1100/1110/1120 UTC

11166 50046 18374 21004 02589
55029 89098 94903 40530 12196 73603 59196 63673 50244 30184
72902 82228 73851 61708 17978 70909 30287 27200 81189 34579
66660 61185 45170 42935 46491 87225 43022 82300 85031 00439
04808 38394 34291 12990 82223 02940 14887 03259 48008 05266
73341 50879 64681 02194 42626 98263 11796 18165 90210 33732
14172 26019 52651 05356 67120 47654 78706 29640 20318 94294
15100 44183 22337 04261 54312 66221 97201 83880 49235 17376
51346 86927 98685 20342 72548 53941 79657 08765 11173 57207
45495 82943 01622 93189 20574 70272 76879 64269 19811 82889
84323 24338 20163 72114 34087 42549 97135 53599 96191 56081
66323 97430 14901 62555 13342 61976 55868 90209 09495 78313
22416 48378 47332 68277 17621 62631 51483 72537 37822 41391
02742 46816 09086 73614 47570 54192 17245 46309 07888 85580
23940 48754 34666 15113 21887 79708 63603 44900 97719 65785
07133 37471 67664 72274 79430 60393 22148 26165 90607 82897
14309 66387 63965 32251 58744 42443 62542 58791 83775 01774
02646 56373 38734 41350 47920 11783 48212 52193 02944 04642
79829 83244 21879 38878 27491 07357 09412 99903 11420 21251
73581 12422 03633 10033 48778 75717 05113 28442 16262 99909
00156 28923 15869 24323 84750 00356 23183 74876 29281 17252
55044 20528 60191 37890 04283 17494 43852 20708 00642 27662
95246 81736 56471 61337 97684 21334 32227 42946 99607 22522
68068 05431 34906 00062 02776 70044 61088 04170 05166 96362
90262 10678 68422 35048 42350 89782 39144 25772 39888 11908
55573 32065 18886 25770 23686 52310 72072 16832 60562 96863
21216 94330 80094 36646 72382 44675 04256 00000

Link 70004

16089/14384/12173 kHz, 08-07/09-07/22-07/23-07, 0900/0910/0920 UTC

11166 70004 64283 07096 01829
55366 53305 92312 18785 70463 23185 62251 92400 80128 83981
89424 58183 28228 36646 58816 43037 28157 88005 83528 35066
14208 94154 39198 03765 05468 75951 90442 52667 54691 07918
80300 42558 48283 16739 46408 57181 72779 24009 75474 51457
61941 67813 99989 27124 67808 57270 98793 39456 32418 37714
84982 89375 40072 92899 38343 23474 02999 31534 11743 01784
33469 33154 89460 23293 47219 05930 91366 49328 38693 51800
20309 34329 17790 14565 80824 33805 81584 74015 86567 05882
13904 31530 10028 75861 07807 09339 19247 61571 77542 75179
93752 73553 01783 33109 61840 01768 14306 64844 51375 75570
85203 87875 60441 02880 10805 32187 93362 97608 23987 66279
71991 76269 38817 45572 46758 36553 05537 88758 74045 56469
74538 18355 75128 67304 08815 83443 31122 61712 24205 60650
31649 62361 12218 99633 67173 18385 27619 04602 88923 36565
94005 53341 86089 33176 77458 60723 82885 52240 88095 97498
70884 55995 16785 88244 98645 11285 89179 57396 53020 28085
81867 79921 38159 78618 48836 42931 63854 87727 42813 45441
53281 38830 37853 70425 30338 72765 48892 16183 63842 24239
96180 00000

Link 70048

13994/12058/10174 kHz, 05-07, 0800/0810/0820 UTC

11166 70048 46217 05039 00049 00000 00000 00000 00000

13994/12058/10174 kHz, 12-07, 0800/0810/0820 UTC

11166 70048 12860 12042 00049 00000 00000 00000 00000

13994/12058/10174 kHz, 19-07, 0800/0810/0820 UTC

11166 70048 24586 19059 00049 00000 00000 00000 00000

13994/12058/10174 kHz, 26-07, 0800/0810/0820 UTC

11166 70048 12345 26026 00049 00000 00000 00000 00000

Link 70059

11049/9126/8137 kHz, 03-07, 0400/0410/0420 UTC

11166 70059 17935 03019 00049 00000 00000 00000 00000

11049/9126/8137 kHz, 17-07, 0400/0410/0420 UTC

11166 70059 15963 17001 00049 00000 00000 00000 00000

Link 70147

13468/11634/9486 kHz, 08-07/09-07, 0800/0810/0820 UTC

11166 70147 05196 07060 01509

60315 03183 99678 58128 46981 83960 82470 94306 52775 77391
87734 84902 63503 30369 62917 03122 09142 14690 91970 56740
15990 94082 41499 98321 06739 75586 01063 83674 50260 83515
02608 60473 90037 87568 39190 04727 88677 31944 84080 82501
76212 00378 34326 44735 99415 34904 29957 53799 07713 18154
27925 52733 03478 24698 13417 13498 18363 01971 47471 26100
02513 08398 09444 31777 24179 11286 04122 26556 73181 56014
67590 35718 95006 14957 08074 70656 44314 48037 31188 51101
25867 24256 37920 29215 08721 76836 10219 87922 50555 98815
07305 17341 13064 87899 28171 41297 40893 20428 73919 77098
43090 03990 60626 63518 78143 59136 56511 53682 76230 11178
56726 02893 79524 37986 04252 72967 04390 72951 41181 80923
14983 02687 34111 91311 34533 34792 43843 54873 98446 31170
85941 28134 42215 21575 90472 79129 00229 60970 01242 31213
08212 13448 14661 02395 67934 47836 76762 35208 60148 00000

13468/11634/9486 kHz, 16-07, 0700/0710/0720 UTC

Danix found link ID 70147 sending out of schedule on week 3, and an hour earlier from its usual slot. The first message was a repeat of last week's scheduled transmission and there was a new second message.

11166 70147 05196 07060 01509

60315 03183 99678 58128 46981 83960 82470 94306 52775 77391
87734 84902 63503 30369 62917 03122 09142 14690 91970 56740
15990 94082 41499 98321 06739 75586 01063 83674 50260 83515
02608 60473 90037 87568 39190 04727 88677 31944 84080 82501
76212 00378 34326 44735 99415 34904 29957 53799 07713 18154
27925 52733 03478 24698 13417 13498 18363 01971 47471 26100
02513 08398 09444 31777 24179 11286 04122 26556 73181 56014
67590 35718 95006 14957 08074 70656 44314 48037 31188 51101
25867 24256 37920 29215 08721 76836 10219 87922 50555 98815
07305 17341 13064 87899 28171 41297 40893 20428 73919 77098
43090 03990 60626 63518 78143 59136 56511 53682 76230 11178
56726 02893 79524 37986 04252 72967 04390 72951 41181 80923
14983 02687 34111 91311 34533 34792 43843 54873 98446 31170

85941 28134 42215 21575 90472 79129 00229 60970 01242 31213
08212 13448 14661 02395 67934 47836 76762 35208 60148 00000

11166 70147 91753 12061 00569
61505 53198 99676 58128 47171 33975 82478 94306 53965 27306
87732 84902 16370 85963 03581 62546 39482 44858 35255 30591
44684 91609 00108 01173 83550 36192 17261 97305 71770 91794
28599 44590 41744 70861 96393 53962 68717 64505 00966 66319
21292 12369 87251 22707 65112 85673 75215 52867 02369 37182
98987 40802 46927 03260 61054 00000

13468/11634/9486 kHz, 22-07/23-07, 0800/0810/0820 UTC

11166 70147 56921 21062 01369
88845 33107 99678 58128 64411 13984 82470 94306 70205 07315
87734 84902 08849 85303 73699 34517 29186 37397 04676 31077
53802 36372 71774 06947 85466 51014 28771 86165 05036 65888
02198 95451 55080 75985 16874 57086 44263 80509 66437 47528
83425 03810 51018 10285 00851 31879 96056 84306 13742 65972
68648 16046 04311 48670 66922 52537 76088 18100 61853 77746
38872 43676 60337 14589 34530 39111 72605 34488 45522 08984
41706 16028 96689 74309 63209 61461 32337 36577 96127 12493
44048 38141 32240 62149 10136 66341 73913 64146 79244 46307
00029 70440 90179 70043 83102 36773 68550 27083 48704 68858
12470 81389 64442 75586 07385 59730 13359 37919 38983 31914
34900 98707 84494 44877 40421 78628 59784 51160 76638 87312
44075 06770 73806 61323 08773 29495 39430 44953 90828 47075
52107 88378 58551 38957 62134 00000

Link 80214

13814/11643/9925 kHz, 06-07, 1330/1340/1350 UTC

11166 80214 98507 06020 00049 00000 00000 00000 00000

13814/11643/9925 kHz, 13-07, 1330/1340/1350 UTC

11166 80214 41297 13067 00049 00000 00000 00000 00000

13814/11643/9925 kHz, 20-07, 1330/1340/1350 UTC

11166 80214 98507 20031 00049 00000 00000 00000 00000

13814/11643/9925 kHz, 27-07, 1330/1340/1350 UTC

11166 80214 62347 27031 00049 00000 00000 00000 00000

Link 90073

16244/14649/12206 kHz, 05-07, 1230/1240/1250 UTC

11166 90073 35791 05001 00049 0000 00000 00000 00000

16244/14649/12206 kHz, 19-07, 1230/1240/1250 UTC

11166 90073 15963 19001 00049 00000 00000 00000 00000

F06a - FSK 200/1000 ACF=288

16346 kHz, 03-07, 1220 UTC, logged by Danix

Daniel writes:

Unfortunately, the signal was pretty bad. This was also one of very few times I've seen their transmitter miscalibrated, about +50 Hz off frequency.

F06a always allocates only 12 characters for filenames, and uses Windows-style line endings in files. However, this is the first time I've seen the Windows filename compatibility thing kick in on F06a: **10075~1.TXT (1857 bytes) (CRC32: 19CAB291)**

The contents of this file were 5LG's instead of 5FG's: (apart from the usual header; there is also the usual thing of sending one group less than the group count says)

11100 10075 23654 01063 03009

TTPLU MUYGL RIBUD TLMGU GLCXG FDPVT PGIAX LNOTL RLWAK LLG_____
 _____TSKBH HHWYN MAJUP SDSER KNSCG BGSJU ANMEC_____
 RHTJE KJULM CKX_____ULQI IVXYI HFYLL SHKLU VYNGO
 DCJTL SOAKL ANTAP_____ONV XFFRE
 SWLJC WPEWV DDHHE XVXSK XMLLB RNVWY CBO__DO__R H_____

 _____JUICP GLGWE GEE_____QYIC XODXP LYCDI
 _____QAO DWRUN MGRIU MEPQO MWISS CNANC HGMPO NIHAH
 DEBSW YATHS QRUHK ICOFH DRJEL GQPKH QXUYQ BPSMX QW_GO KBWEE
 KTXEK OYCTS NRGIA IAA_C WHFDP_IBDQ_____R VRHGB
 DSXLL KKDSO ANNIG YVBFH XHRDP QIJTE RLIMI SERHF RCRYD C_____
 _____J BUXCS MUROW CGEKM_RP_I_W_____A
 GULFG BLD_R J_____DKJBK DKFGS WHGYR_____
 PHTCI VKSFH KMNRP A_____U_AHA GCFOX HGFG B VFYDD SSTLP
 VPFKS MCFVP MXEVT LDBQE QDFOP JSMGE LIPTK VLSL CFTRY MCYLG
 NQRON GTMFA WWNEN IEDPO PLGYE QRUUT ANMAC_D____J K X BHCOJ
 FJPMY EVERP FNCGN WTCBL USDUQ IQQIL EDBUT SOKXS TQKOD LFLNO
 YFWKH OTCKP BNASS HNYDL MXBPI FRUPE LEFVU EVADC QIWGQ WNQM H
 DFSJ_ENLMV IQBSJ Q_JPO FSSK_B_____KRL_W ODPQM
 OQVJP SGHJE UQVWK USX_K IH_EQ____KPG WGQYK GEKGU FSLHV XBNFR
 LEADQ VBRMK DGOOT DMQYR JIJXT SGMCV YBAPG EKYHG RFRX OYVER
 GEQFA JQ_____OPWXS SXOFY YPFJ NVKTY JHGJR RHJWK
 GANEC DUSBC_____WW DFFFJ OOFK T_____
 _____Z_B_G_____ABDLT QYWGJ EGVCM VDYWL IHQHO
 DTMXB CTLLW HIION VSVNN_VOF_WMV_____
 _____RXD PMQVO IWTMN LXCPW YMFIX YXGER GYSPB
 UFBTK SEGDR WRWKH HCRJH VDVKF YEGVN YPM_____
 _____S GMILO FOBFE IYHNN FFEE WLWki XSJYO TEAFF WKPY_
 _____AORG CWIS_NBCSG UJRWY GUUJG VTUYP YVG FH AHTSG
 AOAIR BKTUW PAQSY NKC_Q PDAGE TDYKN EMCVP MLJFD VVUTJ

X06 - Mazielka

Code	Freq	Date	UTC	Details
X06	14675	11-7	1002	Mazielka. Sequence: 612534
X06	14863	14-7	1002	Mazielka. Sequence: 615243
X06	15828	14-7	1003	Mazielka. Sequence: 256134
X06	13838	19-7	0641	Mazielka i.p. Sequence: 256341
X06	16153	20-7	1052	Mazielka i.p. Sequence: 153624. Ends 1103z
X06	15920	28-7	0534	Mazielka. Sequence: 216435
X06	15828	28-7	1004	Mazielka i.p. Sequence: 256134
X06b	14763	5-7	1915	Mazielka. Sequence: 1--6-- during E07
X06b	13363	5-7	1933	Mazielka. Sequence: 1--6-- before E07
X06b	16263	10-7	1810	Mazielka. Sequence: 1--6-- before E07
X06b	14763	10-7	1811	Mazielka. Sequence: 1--6-- before E07
X06b	16264	10-7	1812	Mazielka. Sequence: 1--6-- before E07
X06b	14783	10-7	1813	Mazielka. Sequence: 1--6-- before E07
X06b	16263	10-7	1814	Mazielka. Sequence: 1--6-- before E07
X06b	14783	10-7	1815	Mazielka. Sequence: 1--6-- before E07
X06b	13320	24-7	1220	Mazielka. Sequence: 1--6-- Ends 1254 UTC
X06b	12221	24-7	1308	Mazielka. Single tone, before M12. Ends 1309 UTC
X06b	12221	24-7	1311	Mazielka, Single tone, before M12. Ends 1312 UTC
X06c	16153	13-7	0932	Mazielka. Sequence: 123456

**11409/13509/14609 kHz, 01-07, 0600/0620/0640 UTC**

456 456 456 000

09015 00001 00000 10140

11409/13509/14609 kHz, 05-07/08-07, 0600/0620/0640 UTC

456 456 456 1 456 456 456 1 456 456 456 1

01373 00079 72733 55243 51219 39740 04959 76103 19708 69282

54108 50632 36008 37146 61400 00512 42637 45209 95121 77323

54159 12991 57055 52899 99481 52965 73965 86097 94950 76882

09296 49225 76133 45840 73017 69096 43446 67292 36650 23721

95417 61729 62180 04272 20363 51551 36777 81320 88720 24296

28999 21290 01651 68249 75933 32918 14942 72768 41711 71601

71747 57976 03992 04893 89279 54359 16564 74058 77198 48271

58611 14733 57451 06735 90278 66301 01566 98843 97708 06024

31398 66154

11409/13509/14609 kHz, 12-07/15-07, 0600/0620/0640 UTC

456 456 456 1 456 456 456 1 456 456 456 1

00891 00105 77534 78181 79286 03186 93046 47958 70284 38239

25384 84973 38139 45796 48953 18562 18404 72332 94055 76246

02446 87825 00281 72984 55413 71495 07288 95572 56716 33589

00245 54299 31161 86323 04775 57340 99375 19949 83010 39720

50107 07170 23341 34458 67316 48218 32677 38501 29246 90341

54807 42743 37412 34549 84412 74662 74905 34687 44786 15202

66982 17067 02065 28435 84554 49943 03178 64945 01437 61440

52193 96749 55639 56340 23297 28338 44428 33872 61354 37658

85297 32029 25853 89297 05062 15481 77473 06870 31074 45961

36690 01065 22136 51800 52816 02471 93509 13964 11752 52941

08004 04578 48600 35394 16421 68572 45316 17714

11409/13509/14609 kHz, 19-07, 0600/0620/0640 UTC

456 456 456 000

03070 00001 00000 10140

11409/13509/14609 kHz, 22-07, 0600/0620/0640 UTC

456 456 456 000

02282 00001 00000 10140

11409/13509/14609 kHz, 26-07/29-07, 0600/0620/0640 UTC

456 456 456 1 456 456 456 1 456 456 456 1

08257 00069 02589 81508 78626 37152 75489 56427 66965 05775

11215 42031 08923 50346 89472 07273 14804 19857 14699 30292

51051 67404 06484 96413 29071 57224 43867 48814 61374 18876

51403 93640 45656 09915 07502 28497 51734 66785 49939 80669

14147 86700 88077 47618 82581 02519 82746 33764 24497 78666

30158 91078 31458 59620 21204 69693 15058 30850 31938 00995

17056 33453 23364 97793 42514 76385 95606 96363 83157 03124

57216 31144

XPA2

15967/13884/12217 kHz, 01-07, 2100/2120/2140 UTC

09932 00001 00000 10140

14538/13538/12138 kHz, 02-07, 2100/2120/2140 UTC

01261 00001 00000 10140

20173/18673/14473 kHz, 04-07/07-07, 0700/0720/0740 UTC

09114 00093 55759 79340 43777 10814 32236 48740 31457 99313
21276 51257 60748 26443 25203 50352 64537 92334 69550 30320
71809 90654 23099 84857 11139 90551 67610 19012 41290 04647
90654 46304 98753 91998 44497 26002 07970 93391 87115 51266
87495 41636 21678 73823 75716 41575 61038 94929 32269 88451
46473 60990 76295 28754 34236 26703 63042 99771 47445 62906
94611 19769 71395 46498 11924 22066 87842 14247 98773 65607
09262 04317 43022 05340 43861 63322 62280 98537 94906 75776
97572 40135 33699 47509 39896 79426 13788 88677 89538 81955
71129 23972 68987 18391 90586 13354

15884/14984/14384 kHz, 04-07/06-07, 1900/1920/1940 UTC

02078 00201 00239 10979 56024 39593 17759 15145 51719 31599
77208 30246 96272 33290 66720 14248 64228 47258 71264 72637
04851 81576 90063 26264 17354 39359 25875 32163 93177 31266
16115 49969 71908 59649 39107 99657 92007 68874 76707 90187
09171 02062 13937 03348 25296 54894 18984 46632 62089 15241
35092 93797 12235 28210 03490 58875 75140 15584 16572 19649
84582 05932 12917 20648 90655 31115 11840 52603 59682 92683
17599 05861 52041 39137 87617 99375 64881 56458 89909 07654
94714 78807 04372 92213 60574 86265 44722 97040 38598 01339
29377 50809 35317 10126 94922 38733 46335 39319 44182 18926
50131 19358 32626 77730 93293 97956 28161 93847 47210 79094
73702 45489 96760 74800 60651 36270 65893 09070 71738 02929
67467 77879 27672 24542 41630 03650 90331 19948 34767 69848
21312 48630 08212 57195 07520 32330 09924 75758 49012 09265
29132 09951 79301 46398 47072 30785 94324 98390 03947 18635
05601 23337 62819 95417 55167 36135 30461 98206 27239 78035
56948 58697 69672 52831 74312 79672 94404 36283 08718 82615
35329 10527 23449 88910 43383 47083 06877 75856 43032 85441
92261 53185 42246 62345 69461 48652 64683 54358 66077 38442
28410 58155 25653 22849 07371 92073 95761 50445 97599 53767
30516 45833 75400 22551

15967/13884/12217 kHz, 07-07/08-07, 2100/2120/2140 UTC

02947 00143 44335 85935 08937 31831 24158 22955 37410 07046
77622 86422 54252 27697 13248 11920 97676 44082 70588 37895
02249 24658 35408 18495 11394 58905 26635 83654 10686 75324
09087 66546 01718 73106 55858 14437 77815 32400 58714 96237
21899 80910 61460 42928 28295 64996 28476 10812 14041 04467
87139 63029 80031 18305 42858 93339 02619 78376 36882 79736
89393 99504 75831 45107 22690 07761 08941 66448 32983 29621
84336 80852 09947 47852 58564 91959 93111 83869 56299 65757
52307 85976 38299 27979 52210 09333 22582 32894 25962 07126
62441 08557 01320 71708 77534 44031 99682 42570 85170 25125
46350 88338 75790 79525 59109 59465 46531 01522 97596 09488
76049 83994 23487 57502 12612 16959 18874 75536 42993 19255
12849 84780 35638 48911 83970 26534 20162 89144 64997 10263
80552 24459 67571 20779 40287 26851 51763 92406 84866 08817
03210 07433 07525 58935 68395 22760



14538/13538/12138 kHz, 09-07/11-07, 2100/2120/2140 UTC

03312 00135 79942 20003 59042 82449 35984 21524 66465 46436
06174 14204 17436 58064 07831 78407 21699 29195 10665 33190
82097 77932 01109 47085 09666 68251 20359 06749 43678 43272
57491 65728 07093 20285 46701 89291 52880 01393 45724 27550
59440 69149 26474 90854 98148 07644 78698 73410 41675 83735
82619 20992 62269 31623 39757 58887 68854 11684 09798 03130
63335 78809 69076 24279 06499 31408 21635 64954 20794 69160
24528 62175 88526 66028 21397 97321 65080 81406 94376 32919
74158 84799 00213 40225 90973 07844 12751 52354 52082 02423
74530 43183 55310 86789 19310 47742 96690 95430 44025 23955
26309 45616 82705 18358 67815 11123 69597 44608 24731 86265
63601 64903 58458 15499 84731 94969 44472 33927 02947 44585
27496 85321 92174 75333 93009 05328 44241 70789 60399 61826
67358 09354 33634 55207 08774 40599 55747 75641

20173/18673/14473 kHz, 11-07, 0700/0720/0740 UTC

01580 00001 00000 10140

15884/14984/14384 kHz, 11-07, 1900/1920/1940 UTC

06730 00001 00000 10140

15884/14984/14384 kHz, 13-07, 1900/1920/1940 UTC

09063 00001 00000 10140

20173/18673/14473 kHz, 14-07, 0700/0720/0740 UTC

04003 00001 00000 10140

15967/13884/12217 kHz, 14-07, 2100/2120/2140 UTC

04268 00001 00000 10140

15967/13884/12217 kHz, 15-07, 2100/2120/2140 UTC

08396 00001 00000 10140

14538/13538/12138 kHz, 16-07, 2100/2120/2140 UTC

02962 00001 00000 10140

20173/18673/14473 kHz, 18-07/21-07, 0700/0720/0740 UTC

07947 00135 27330 88356 81968 71294 17932 28228 46119 84896
12015 85319 44009 72238 88352 66853 71534 57568 80900 48748
08873 40588 60163 71767 45083 23170 15693 80300 13035 37491
16127 54119 62895 91827 95409 27428 46566 04177 48432 90048
59456 84201 44204 01772 19007 30788 23376 28864 27982 11249
45891 28352 87748 77210 74045 04347 74642 02722 81810 34679
64157 27630 03513 83567 30866 82227 96430 14587 86390 19856
31049 01096 55837 71883 37514 98198 88130 90366 40225 36312
42453 33205 88918 48891 89252 83521 45950 02071 71546 87053
74505 30450 16003 69178 00720 97347 34246 65492 62087 77678
91806 33845 88910 63500 57524 54817 52488 46392 72819 87529
40833 32483 48648 93163 56405 57507 50081 15102 15001 21925
43740 59026 04122 07256 73585 40992 24937 50430 60256 49462
88897 50235 75854 38431 21877 74740 29522 12044

15884/14984/14384 kHz, 18-07/20-07, 1900/1920/1940 UTC

03107 00195 51174 85848 95477 19601 91370 70273 10386 28815
89305 38639 76089 68226 40438 98846 98966 37279 70601 58755
30836 12021 04220 79650 79299 23726 54374 67959 10513 75226
26524 27532 94986 02599 07494 49624 58242 51120 12605 56254
55799 24362 86857 04851 87107 76880 41702 17384 21384 32730
90556 02347 02956 85289 04628 54484 90824 12634 77301 66980
38270 48823 81902 51699 76083 43540 79585 06760 89133 64366
14554 52005 16840 57276 44723 08051 98468 54169 07159 98552
81346 12900 90671 93638 27793 97620 91635 01960 58272 11518
23227 40894 80532 12937 15469 22077 97312 74559 75812 82891
58385 26989 81123 99182 30583 95684 26521 46438 02593 70975
09794 21745 62036 06957 96490 60225 34140 43547 68273 47597
03978 29512 59432 03166 25403 94191 87221 22011 24771 34490
71869 08052 25597 60771 62510 68443 07315 14617 15292 97919
58029 53713 06085 89385 85931 47045 58685 88471 35994 09814
52520 38249 74093 54928 88487 67148 60463 05482 43818 42731
98973 64340 09001 77970 55967 48869 32158 57809 75793 23572
66383 66991 10561 37767 56420 99342 41278 97413 15666 34734
77236 98433 76580 18936 01969 75057 71420 80039 12330 56044
10838 35715 82099 59264 06733 44715 43272 15555

14538/13538/12138 kHz, 18-07, 2100/2120/2140 UTC

07349 00001 00000 10140

15967/13884/12217 kHz, 21-07/22-07, 2100/2120/2140 UTC

05086 00099 62013 23576 65416 06658 15707 98440 06981 73887
80598 63805 22885 89101 18192 84586 81452 05530 31103 48727
58160 83213 69466 32270 03429 18569 98681 52727 66443 97561
45853 89584 98749 75896 89526 59196 40516 55687 51796 21690
43588 48238 80103 28581 46303 23877 65980 57986 28485 58094
51074 86877 22023 63825 36647 40836 14023 55362 84510 98031
92070 67317 49316 34094 66869 96824 39274 84410 72794 68438
22196 85104 02866 33096 38256 21310 45036 92335 14891 70091
68028 98995 26803 26186 35766 73250 21600 17371 80260 89599
77582 63271 43383 68353 37735 00497 50374 04464 56366 04863
24769 40763

14538/13538/12138 kHz, 23-07/25-07, 2100/2120/2140 UTC

00420 00077 78905 71539 63206 32507 83583 65115 28999 85930
26234 31281 66985 47223 42555 66881 85575 11670 74157 45469
92293 20241 36289 63324 69732 42470 22486 91863 68677 74186
82109 59640 71922 15604 76088 84577 90885 77502 02113 48093
06498 48038 59857 42221 12199 22264 81889 29904 29566 60452
77858 27959 52169 64335 18995 39197 72944 38946 67104 26684
02047 82794 39088 71181 75936 37056 31944 86641 10885 18947
64401 18655 75430 58999 75595 83843 18949 83796 60679 23254

20173/18673/14473 kHz, 25-07, 0700/0720/0740 UTC

07345 00001 00000 10140

15884/14984/14384 kHz, 25-07, 1900/1920/1940 UTC

09825 00001 00000 10140

15884/14984/14384 kHz, 27-07, 1900/1920/1940 UTC

05627 00001 00000 10140

20173/18673/14473 kHz, 28-07, 0700/0720/0740 UTC

07628 00001 00000 10140

15967/13884/12217 kHz, 28-07, 2100/2120/2140 UTC
04666 00001 00000 10040

15967/13884/12217 kHz, 29-07, 2100/2120/2140 UTC
06555 00001 00000 10140

14538/13538/12138 kHz, 30-07, 2100/2120/2140 UTC
06745 00001 00000 10140

F11

15632 kHz, 05-07/07-07, 0730/0735 UTC
0453 0453 0453 0453 0453
88888 88888 01751 80675 57359 06232 72241 32951 64196 56709
18799 36758 91462 46405 03545 23100 86630 77120 53829 27421
73392 81705 64308 28904 40214 00616 40175 79212 78989 32402
60250 93623 62759 25142 88888 88888
00036 00036

7837 kHz, 10-07/13-07, 0515/0520 UTC
0446 0446 0446 0446 0446
88888 88888 49814 53682 89575 50637 49998 49310 97928 42189
68194 26219 52212 91881 72420 76877 00846 60547 03235 47498
90507 32657 88175 71745 69095 97037 29521 03249 31804 25279
85908 75481 47210 80070 28763 88888 88888
00037 00037

8423 kHz, 11-07/14-07, 0900/0905 UTC
0554 0554 0554 0554 0554
88888 88888 08430 23481 74955 85260 02098 58869 75815 01342
55604 23914 10466 67500 43822 11816 79273 36306 69433 19503
68007 10466 49344 18136 33171 11441 33588 27696 01430 49655
96157 46639 41888 03917 42810 08715 88888 88888
00038 00038

6480 kHz, 24-07/27-07, 0800/0805 UTC
0434 0434 0434 0434 0434
88888 88888 20079 12133 75806 82274 86258 89368 89447 60619
19463 29745 52830 87837 20174 58840 88547 60044 61424 09818
97561 25273 66131 75486 83982 35460 51181 18817 63557 96581
92320 31620 96253 88888 88888
00035 00035

13424 kHz, 24-07/26-07, 0845/0850 UTC
0353 0353 0353 0353 0353
88888 88888 98300 81093 07640 68491 88106 29867 69735 16621
79230 45955 62043 46836 63433 89806 94230 81656 19627 53540
22630 29522 93868 17476 21588 53682 86794 36252 84872 41969
28045 78611 65950 67753 59803 88888 88888
00037 00037

13470 kHz, 25-07/27-07, 0630/0635 UTC
0574 0547 0547 0547 0547
88888 88888 86538 10919 08922 93085 44085 99740 60195 11532
09421 25366 44771 65432 39151 03667 52036 32090 02837 35875
19184 77939 57835 19396 40643 16615 31534 39061 82053 91897
12172 92036 34674 60645 43541 19248 97150 50718 49217 91273
34149 88888 88888
00043 00043

6280 kHz, 25-07/26-07, 1150/1155 UTC

0325 0325 0325 0325 0325

88888 88888 28223 44855 40429 52642 28417 06540 19766 29660

97441 76067 18359 53511 77862 61922 13062 20658 52489 52738

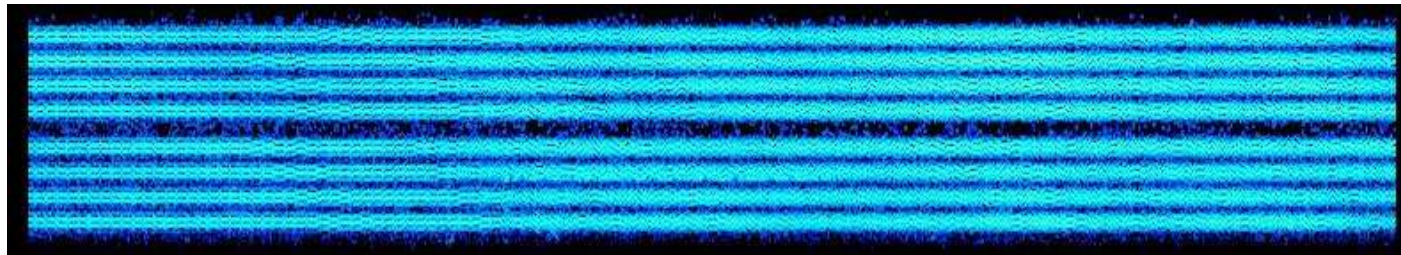
68829 93008 21589 50756 58409 39161 06184 43335 40055 90534

85493 66161 20360 78384 38343 46291 48116 35671 56966 88888

88888

00041 00041

Q26 - Chinese military



Mode: 4+4 QPSK 75/3000 LSB

8333.6 kHz, 13-07, 1033 UTC

8073 kHz, 13-07, 1131 UTC

7110 kHz, 15-07, 1311 UTC

3657.5 kHz, 21-07, 1355 UTC

6666 kHz, 24-07, 0854 UTC

4364//8073 kHz, 25-07, 1137 UTC

4243//9054 kHz, 25-07, 1143 UTC

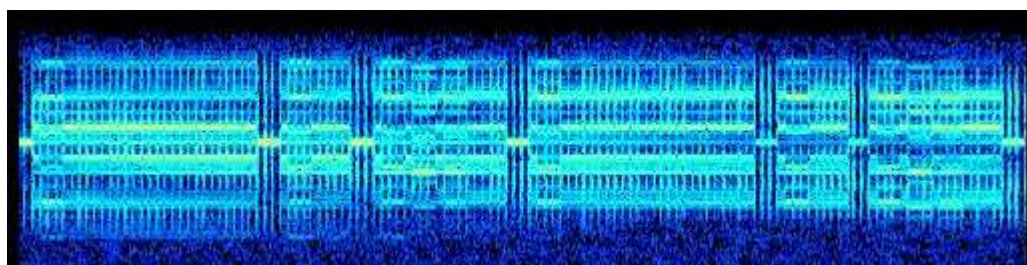
XSL - Japan Maritime Self-Defense Force (海上自衛隊 Kaijō Jieitai)

Logged on:

06-07 between 1400 and 1407 UTC. Mode: QPSK 1500Bd

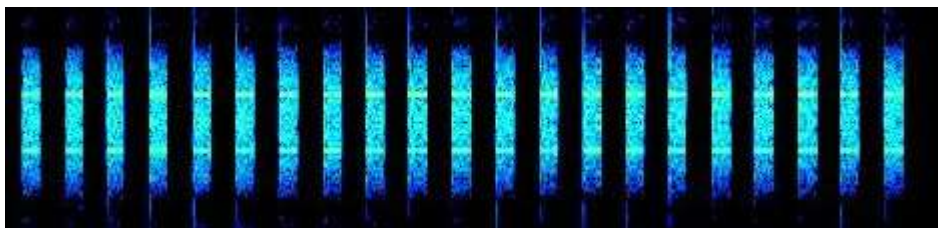
14-07 between 1415 and 1423 UTC. Mode: QPSK 1500Bd

Frequencies: 4153, 4231.5, 4291, 6250, 6417, 6445, 8313, 8588, 8703.5 kHz



DIPLOMATIC STATIONS

North Korean diplomatic stations



Freq	Date	UTC	Details	Mode
13555	3-7	1357	North Korean diplo. Starts at 1357z, ends at 1401z	DPRK-ARQ 600/600 LSB
14444	4-7	1511	North Korean diplo i.p.	DPRK-ARQ 600/600 LSB
14530	13-7	0705	North Korean diplo i.p.	DPRK-ARQ 600/600 LSB
14750	13-7	0714	North Korean diplo i.p.	DPRK-ARQ 600/600 LSB
16450	13-7	0716	North Korean diplo i.p.	DPRK-ARQ 600/600 LSB
14777	13-7	0720	North Korean diplo i.p.	DPRK-ARQ 600/600 LSB
14115	13-7	0941	North Korean diplo i.p.	DPRK-ARQ 600/600 LSB
14530	15-7	0657	Id: 0xB3 North Korean diplo in IRS mode QSX 14750kHz	DPRK-ARQ-600 LSB
14750	15-7	0657	Id: 0xA5 North Korean diplo in ISS mode QSX 14530kHz	DPRK-ARQ-600 LSB
13111	15-7	0804	Id: 0xA5 North Korean diplo in IRS mode QSX 13333kHz	DPRK-ARQ-1200 LSB
13333	15-7	0804	Id: 0xAC North Korean diplo in ISS mode QSX 13111kHz	DPRK-ARQ-1200 LSB
17320	15-7	1603	Id: 0xCE North Korean diplo in IRS mode unid QSX	DPRK-ARQ-600 LSB
14120	15-7	1607	Id: 0xD0 North Korean diplo in IRS mode in simplex mode with a very weak unid Id	DPRK-ARQ-600 LSB
14444	15-7	2107	North Korean diplo i.p.	DPRK-ARQ 600/600
13333	16-7	0631	Id: 0xCC North Korean diplo in IRS mode QSX 14885kHz	DPRK-ARQ-600 LSB
14885	16-7	0631	Id: 0xA5 North Korean diplo in ISS mode QSX 13333kHz	DPRK-ARQ-600 LSB
14530	16-7	0700	Id: 0xB3 North Korean diplo in IRS mode QSX 14750kHz	DPRK-ARQ-600 LSB
14750	16-7	0700	Id: 0xA5 North Korean diplo in ISS mode QSX 14530kHz	DPRK-ARQ-600 LSB
13333	16-7	0829	Id: 0xAD North Korean diplo QRT-ing	DPRK-ARQ-600 LSB
12850	16-7	0830	Id: 0xB4 North Korean diplo QRT-ing	DPRK-ARQ-600 LSB
16122	16-7	1138	Id: 0xC4 North Korean diplo in ISS mode unid QSX	DPRK-ARQ-600 LSB
16008	16-7	1140	Id: 0xCA North Korean diplo in ISS mode unid QSX	DPRK-ARQ-600 LSB
15655	16-7	1154	Id: 0xCA North Korean diplo in ISS mode unid QSX	DPRK-ARQ-600 LSB
16950	16-7	1512	North Korean diplo i.p.	DPRK-ARQ 600/600
13105	17-7	0624	Id: 0xCC North Korean diplo in ISS mode unid QSX	DPRK-ARQ-600 LSB
13222	17-7	0640	Id: 0xAA North Korean diplo unid QSX. Terrible transmitter	DPRK-ARQ-600 LSB
13233	17-7	0640	Id: 0xA5 North Korean diplo sending CQ's	DPRK-ARQ-600 LSB
13205	17-7	0643	Id: 0xCC North Korean diplo in IRS mode unid QSX	DPRK-ARQ-600 LSB
14530	17-7	0700	Id: 0xB3 North Korean diplo in ISS mode QSX 14750kHz	DPRK-ARQ-600 LSB
14750	17-7	0700	Id: 0xA5 North Korean diplo in IRS mode QSX 14530kHz	DPRK-ARQ-600 LSB
14530	17-7	1229	Id: 0xB3 North Korean diplo in ISS mode QSX 14750kHz	DPRK-ARQ-1200 LSB
14750	17-7	1229	Id: 0xA5 North Korean diplo in IRS mode QSX 14530kHz	DPRK-ARQ-1200 LSB
12222	17-7	1259	Id: 0xB5 North Korean diplo in ISS mode unid QSX	DPRK-ARQ-1200 LSB
14354	17-7	1302	Id: 0xA5 North Korean diplo in ISS mode unid QSX	DPRK-ARQ-1200 LSB
13222	18-7	0636	Id: 0xAA North Korean diplo in IRS mode unid QSX. Terrible transmitter	DPRK-ARQ-1200 LSB
15533	18-7	0648	Id: 0xAE North Korean diplo in IRS mode QSX 15555kHz	DPRK-ARQ-600 LSB
15555	18-7	0648	Id: 0xA5 North Korean diplo in ISS mode QSX 15533kHz	DPRK-ARQ-600 LSB
14530	18-7	0656	Id: 0xB3 North Korean diplo in IRS mode QSX 14750kHz (the QSX later QSY'd to 15112kHz)	DPRK-ARQ-600 LSB
14750	18-7	0656	Id: 0xA5 North Korean diplo in ISS mode QSX 14530kHz (later QSY'd to 15112kHz)	DPRK-ARQ-600 LSB

Freq	Date	UTC	Details	Mode
12222	19-7	0631	Id: 0xB5 North Korean diplo CQ-ing from 0631 until 0647 UTC	DPRK-ARQ-600 LSB
14885	20-7	0638	id 0xA5: North Korean diplo i.p.	DPRK-ARQ 600/600 LSB
13222	20-7	0645	id 0xAA: North Korean diplo i.p.	DPRK-ARQ 600/600 LSB
13444	20-7	0700	id 0xA5: unid North Korean embassy i.p.	DPRK-ARQ 600/600 LSB
14530	20-7	0701	id 0xB3: North Korean diplo wkg id 0xA5 on 14750 kHz	DPRK-ARQ 600/600 LSB
14750	20-7	0701	id 0xA5: North Korean diplo wkg id 0xB3 on 14530 kHz	DPRK-ARQ 600/600 LSB
16450	20-7	0745	North Korean diplo i.p.	DPRK-ARQ 600/600 LSB
14750	20-7	1127	id 0xA5: North Korean diplo wkg id 0xB3 on 14530 kHz	DPRK-ARQ 600/600 LSB
14530	20-7	1227	id 0xB3: North Korean diplo wkg id 0xA5 on 14750 kHz	DPRK-ARQ 600/600 LSB
16450	20-7	1231	North Korean diplo i.p.	DPRK-ARQ 600/600 LSB
13155	22-7	0623	Id: 0xCC North Korean diplo in IRS mode QSX 13555kHz	DPRK-ARQ-1200 LSB
13555	22-7	0623	Id: 0xA5 North Korean diplo in ISS mode QSX 13155kHz	DPRK-ARQ-1200 LSB
12112	22-7	0629	Id: 0xA5 North Korean diplo QSX 12222kHz	DPRK-ARQ-600 LSB
12222	22-7	0629	Id: 0xB5 North Korean diplo CQ-ing 12112kHz QSX 12122kHz	DPRK-ARQ-600 LSB
13222	22-7	0640	Id: 0xAA North Korean diplo in IRS mode unid QSX. Terrible transmitter	DPRK-ARQ-1200 LSB
14530	22-7	0658	Id: 0xB3 North Korean diplo in IRS mode QSX 14750kHz	DPRK-ARQ-600 LSB
14750	22-7	0658	Id: 0xA5 North Korean diplo in ISS mode QSX 14530kHz	DPRK-ARQ-600 LSB
13444	22-7	0659	id 0xA5: unid North Korean embassy i.p.	DPRK-ARQ 600/600 LSB
14530	22-7	0700	id 0xB3: North Korean diplo wkg id 0xA5 on 14750 kHz	DPRK-ARQ 600/600 LSB
14750	22-7	0700	id 0xA5: North Korean diplo wkg id 0xB3 on 14530 kHz	DPRK-ARQ 600/600 LSB
17120	22-7	0715	Id: 0xD0 North Korean diplo CQ-ing 19850kHz no answer	DPRK-ARQ-600 LSB
10400	22-7	0804	Id: 0xA4 North Korean diplo in IRS mode QSX 14115kHz	DPRK-ARQ-1200 LSB
14115	22-7	0804	Id: 0xA5 North Korean diplo in ISS mode QSX 10400kHz	DPRK-ARQ-1200 LSB
20330	22-7	0906	Id: 0xD0 North Korean diplo in ISS mode a lot of freqs used for QSX (20830, 22420, 19840, 17415, 19875 kHz)	DPRK-ARQ-600 LSB
16450	22-7	1229	Id: 0xCD North Korean diplo in ISS mode QSX 16555kHz	DPRK-ARQ-1200 LSB
16555	22-7	1229	Id: 0xA5 North Korean diplo in IRS mode QSX 16450kHz	DPRK-ARQ-1200 LSB
14444	22-7	1600	Id: 0xD2 North Korean diplo in IRS mode QSX 17320kHz	DPRK-ARQ-600 LSB
17320	22-7	1600	Id: 0xCE North Korean diplo in ISS mode QSX 14444kHz	DPRK-ARQ-600 LSB
13333	23-7	0603	Id: 0xCC North Korean diplo in IRS mode QSX 13555kHz	DPRK-ARQ-600 LSB
13555	23-7	0603	Id: 0xA5 North Korean diplo in ISS mode QSX 13333kHz	DPRK-ARQ-600 LSB
14444	23-7	0628	Id: 0xA5 North Korean diplo in ISS mode unid QSX	DPRK-ARQ-600 LSB
13222	23-7	0630	Id: 0xAA North Korean diplo in ISS mode unid QSX. Transmitter still not repaired	DPRK-ARQ-600 LSB
14885	23-7	0632	Id: 0xA5 North Korean diplo in ISS mode unid QSX	DPRK-ARQ-600 LSB
14530	23-7	0658	Id: 0xB3 North Korean diplo QSX 14750kHz	DPRK-ARQ-600 LSB
14750	23-7	0658	Id: 0xA5 North Korean diplo QSX 14530kHz	DPRK-ARQ-600 LSB
16450	23-7	0700	Id: 0xCD North Korean diplo in ISS mode QSX 16555kHz	DPRK-ARQ-600 LSB
16555	23-7	0700	Id: 0xA5 North Korean diplo in IRS mode QSX 16450kHz	DPRK-ARQ-600 LSB
12322	23-7	0730	Id: 0xAB North Korean diplo in ISS mode QSX 12550kHz	DPRK-ARQ-600 LSB
12333	23-7	0730	Id: 0xA6 North Korean diplo in IRS mode unid QSX	DPRK-ARQ-600 LSB
12550	23-7	0730	Id: 0xA5 North Korean diplo in IRS mode QSX 12322kHz	DPRK-ARQ-600 LSB
12750	23-7	0829	Id: 0xA5 North Korean diplo QSX 12850kHz	DPRK-ARQ-600 LSB
12850	23-7	0829	Id: 0xB4 North Korean diplo QSX 12750kHz	DPRK-ARQ-600 LSB
13122	23-7	0829	Id: 0xA5 North Korean diplo in ISS mode QSX 13333kHz	DPRK-ARQ-1200 LSB
13333	23-7	0829	Id: 0xAD North Korean diplo in IRS mode QSX 13122kHz	DPRK-ARQ-1200 LSB
16450	23-7	0902	Id: 0xD0 North Korean diplo in ISS mode unid QSX	DPRK-ARQ-600 LSB
13333	24-7	0610	id 0xCC. North Korean diplo	DPRK-ARQ 600/600 LSB
13222	24-7	0627	Id: 0xAA North Korean diplo in ISS mode QSX 14885kHz. Terrible transmitter (do they even know?)	DPRK-ARQ-600 LSB
14885	24-7	0627	Id: 0xA5 North Korean diplo in IRS mode QSX 13222kHz	DPRK-ARQ-600 LSB
12222	24-7	0628	id 0xB5. North Korean diplo	DPRK-ARQ 600/600 LSB
14530	24-7	0656	Id: 0xB3 North Korean diplo in IRS mode QSX 14750kHz	DPRK-ARQ-1200 LSB
14750	24-7	0656	Id: 0xA5 North Korean diplo in ISS mode QSX 14530kHz	DPRK-ARQ-1200 LSB

Freq	Date	UTC	Details	Mode
14530	24-7	0657	id 0xB3. North Korean diplo	DPRK-ARQ 600/600 LSB
13444	24-7	0658	North Korean diplo	DPRK-ARQ 600/600 LSB
10400	24-7	0808	Id: 0xA4 North Korean diplo in IRS mode QSX 14115kHz	DPRK-ARQ-1200 LSB
14115	24-7	0808	Id: 0xA5 North Korean diplo in ISS mode QSX 10400kHz	DPRK-ARQ-1200 LSB
14655	24-7	0947	Id: 0xA5 North Korean diplo in ISS mode unid QSX	DPRK-ARQ-600 LSB
13333	24-7	1206	Id: 0xAD North Korean diplo QSX 13444kHz	DPRK-ARQ-1200 LSB
13444	24-7	1206	Id: 0xA5 North Korean diplo QSX 13333kHz	DPRK-ARQ-1200 LSB
13515	24-7	1209	Id: 0xAB North Korean diplo unid QSX	DPRK-ARQ-600 LSB
12350	24-7	1212	North Korean diplo	DPRK-ARQ 600/600 LSB
13515	24-7	1212	id 0xAB: North Korean diplo	DPRK-ARQ 600/600 LSB
15450	24-7	1215	Id: 0xCA North Korean diplo unid QSX	DPRK-ARQ-600 LSB
14530	24-7	1231	id 0xB3: North Korean diplo wkg id 0xA5 on 14750 kHz	DPRK-ARQ 600/600 LSB
14750	24-7	1231	id 0xA5: North Korean diplo wkg id 0xB3 on 14530 kHz	DPRK-ARQ 600/600 LSB
12222	24-7	1300	id 0xB5. North Korean diplo	DPRK-ARQ 600/600 LSB
12333	24-7	1300	Id: 0xA6 North Korean diplo unid QSX (usual 12444kHz in PLUTO QRM)	DPRK-ARQ-1200 LSB
13444	25-7	0657	North Korean diplo	DPRK-ARQ 600/600 LSB
14444	25-7	0733	Id: 0xD2 North Korean diplo in IRS mode QSX 16020kHz	DPRK-ARQ-600 LSB
16020	25-7	0733	Id: 0xCE North Korean diplo in ISS mode QSX 14444kHz	DPRK-ARQ-600 LSB
10400	25-7	0804	Id: 0xA4 North Korean diplo CQ-ing 14544kHz no answer. Later tried 12225kHz and 10880kHz where it got answers.	DPRK-ARQ-600 LSB
12225	25-7	0806	Id: 0xA5 North Korean diplo replying to CQ	DPRK-ARQ-600 LSB
10880	25-7	0807	Id: 0xA5 North Korean diplo replying to CQ	DPRK-ARQ-600 LSB
12750	25-7	0829	Id: 0xA5 North Korean diplo in ISS mode QSX 12850kHz	DPRK-ARQ-600 LSB
12850	25-7	0829	Id: 0xB4 North Korean diplo in IRS mode QSX 12750kHz	DPRK-ARQ-600 LSB
20840	25-7	0900	Id: 0xC3 North Korean diplo trying to re-gain contact for 52+ minutes	DPRK-ARQ-600 LSB
12550	25-7	1200	Id: 0xA5 North Korean diplo waiting for 0xAB on 12322kHz no answer	DPRK-ARQ-600 LSB
12345	25-7	1202	Id: 0xA8 North Korean diplo in ISS mode unid QSX	DPRK-ARQ-600 LSB
13333	25-7	1203	Id: 0xAD North Korean diplo CQ-ing 13122kHz	DPRK-ARQ-600 LSB
12333	25-7	1300	Id: 0xA6 North Korean diplo in ISS mode QSX 12444kHz	DPRK-ARQ-600 LSB
12444	25-7	1300	Id: 0xA5 North Korean diplo in IRS mode QSX 12333kHz	DPRK-ARQ-600 LSB
12850	26-7	0829	id 0xB4: North Korean diplo	DPRK-ARQ 600/600
13333	26-7	0829	id 0xAD: North Korean diplo	DPRK-ARQ 600/600
11555	26-7	0833	North Korean Diplo	DPRK-ARQ 1200/1200
13244	26-7	0837	id 0xA5: North Korean diplo. Ends with opchat: 8rt ok sk	DPRK-ARQ 600/600
12322	26-7	1203	id 0xAB: North Korean diplo	DPRK-ARQ 600/600
13333	26-7	1203	id 0xAD: North Korean diplo	DPRK-ARQ 600/600
13444	26-7	1203	North Korean diplo	DPRK-ARQ 600/600
12345	26-7	1205	id 0xA8: North Korean diplo	DPRK-ARQ 600/600
13333	27-7	0602	id 0xCC: North Korean diplo (QXS 13555 kHz)	DPRK-ARQ 600/600
13555	27-7	0602	id 0xA5: North Korean diplo (QXS 13333 kHz)	DPRK-ARQ 600/600
13333	28-7	0603	id 0xCC: North Korean diplo (QXS 13555 kHz)	DPRK-ARQ 600/600 LSB
13555	28-7	0607	id 0xA5: North Korean diplo (QXS 13333 kHz)	DPRK-ARQ 600/600 LSB
16450	28-7	0716	id 0xCD: North Korean diplo i.p.	DPRK-ARQ 600/600 LSB
12322	28-7	0732	id 0xAB: North Korean diplo	DPRK-ARQ 600/600 LSB
12333	28-7	0732	id 0xCC: North Korean diplo i.p.	DPRK-ARQ 600/600 LSB
14444	28-7	0733	id 0xD2: North Korean diplo i.p.	DPRK-ARQ 600/600 LSB
10400	28-7	0803	id 0xA4: North Korean diplo	DPRK-ARQ 600/600 LSB
12550	28-7	1201	id 0xA5: North Korean diplo	DPRK-ARQ 600/600 LSB
12550	28-7	1201	id 0xA5: North Korean diplo	DPRK-ARQ 600/600 LSB
12322	28-7	1205	id 0xAB: North Korean diplo	DPRK-ARQ 600/600 LSB
13122	28-7	1205	id 0xA5: North Korean diplo	DPRK-ARQ 600/600 LSB
13333	28-7	1205	id 0xCC: North Korean diplo	DPRK-ARQ 600/600 LSB
12345	28-7	1214	id 0xA8: North Korean diplo	DPRK-ARQ 600/600 LSB

Freq	Date	UTC	Details	Mode
16555	28-7	1230	id 0xA5: North Korean diplo	DPRK-ARQ 600/600 LSB
16450	28-7	1231	id 0xCD: North Korean diplo	DPRK-ARQ 600/600 LSB
14530	28-7	1237	id 0xB3: North Korean diplo	DPRK-ARQ 600/600 LSB
14750	28-7	1237	id 0xA5: North Korean diplo	DPRK-ARQ 600/600 LSB
14887	28-7	1307	North Korean diplo. Tones only, no data	Tones
14750	28-7	1309	id 0xA5: North Korean diplo	DPRK-ARQ 600/600 LSB
14766	28-7	1309	id 0xCD: North Korean diplo	DPRK-ARQ 600/600 LSB
14771	28-7	1309	id 0xA5: North Korean diplo	DPRK-ARQ 600/600 LSB
14566	28-7	1318	North Korean diplo. Tones only, no data	Tones
14444	28-7	1604	id 0xD2: North Korean diplo sending offline crypto.	DPRK-ARQ 600/600 LSB
14125	28-7	1608	id 0XD0: North Korean diplo ending a contact.	DPRK-ARQ 600/600 LSB
14135	28-7	1609	id 0XD0: North Korean diplo ending a contact.	DPRK-ARQ 600/600 LSB
14444	28-7	1613	id 0xD2: North Korean diplo sending offline crypto.	DPRK-ARQ 600/600 LSB
12850	30-7	0826	id 0xB4: North Korean diplo	DPRK-ARQ 600/600 LSB
13122	30-7	0826	id 0xA5: North Korean diplo	DPRK-ARQ 600/600 LSB
13333	30-7	0826	id 0xAD: North Korean diplo	DPRK-ARQ 600/600 LSB
16450	31-7	0430	Id: 0xD0 North Korean diplo CQ-ing 16415kHz 14589kHz	DPRK-ARQ-600 LSB
16415	31-7	0432	Id: 0xC3 North Korean diplo responding to CQ	DPRK-ARQ-600 LSB
13333	31-7	0602	Id: 0xCC North Korean diplo CQ-ing 13555kHz 14244kHz 17320kHz 13555kHz; no answer until 0609 UTC	DPRK-ARQ-600 LSB
13333	31-7	0603	id 0xCC. North Korean diplo	DPRK-ARQ 600/600 LSB
14120	31-7	0604	Id: 0xD0 North Korean diplo in ISS mode stopped seconds later	DPRK-ARQ-600 LSB
14125	31-7	0604	Id: 0xD0 North Korean diplo responding to CQ to a very weak unid Id: on the same frequency	DPRK-ARQ-600 LSB
13555	31-7	0609	id 0xA5. North Korean diplo	DPRK-ARQ 600/600 LSB
13155	31-7	0611	Id: 0xCC North Korean diplo in IRS mode QSX 13555	DPRK-ARQ-600 LSB
13555	31-7	0611	Id: 0xA5 North Korean diplo in ISS mode QSX 13155	DPRK-ARQ-600 LSB
14125	31-7	0615	Id: 0xD0 North Korean diplo CQ-ing 14125kHz no answer	DPRK-ARQ-600 LSB
12112	31-7	0628	id 0xA5. North Korean diplo	DPRK-ARQ 600/600 LSB
13222	31-7	0628	id 0xAA. North Korean diplo	DPRK-ARQ 600/600 LSB
14885	31-7	0628	id 0xA5. North Korean diplo	DPRK-ARQ 600/600 LSB
12222	31-7	0629	id 0xB5. North Korean diplo	DPRK-ARQ 600/600 LSB
12333	31-7	1256	id 0xA6. North Korean diplo	DPRK-ARQ 600/600 LSB
12222	31-7	1300	id 0xB5. North Korean diplo i.p.	DPRK-ARQ 600/600 LSB
14444	31-7	1558	Id: 0xD2 North Korean diplo in ISS mode QSX 16020	DPRK-ARQ-600 LSB
16020	31-7	1558	Id: 0xCE North Korean diplo in IRS mode QSX 14444	DPRK-ARQ-600 LSB

Egyptian diplomatic stations

14923.7 kHz, 01-07, 1100 UTC, SITOR-A 100/170

MFA Cairo wkg XBVM Egyptian embassy Bonn

HK+?

99

XBVM XBVM XBVM YGK HUXD

XBVM XBVM XBVM XBVM XBVM UII

HJKJ KDUJZ XBVM XBVM XB ZWF YKS YK

14621.7 kHz, 09-07, 2040 UTC, SITOR-A 100/170

Egyptian diplo. End of traffic: 12345 ABCDEFG +?9?? KQJKDS MKDKDXKMF) (KNGSG

16067.7 kHz, 19-07, 1901 UTC, SITOR-A 100/170

71 : Egyptian Military Intelligence, Cairo. Message to Egyptian embassy Washington

FROM : 71

TO : WASHINGTON

TIDATE5:45, FFFKNUDAYJULY 19, 2 9%970': 161

URGENT

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002AD 8BE0C 005BF368C F9EC26 37382 83047 E6915
25010 100B5 B3D59 9723-339F 49BCAA4D 87D8B 14BA9
F7F6B 84F :1 3AA59 00386 2BCB8 A0F8509 AE31C CFA0 9E
94E54 32812 45AD5CEB 881E6 6F918 C284E 92BFC B19E7
7CFEEB 888%6+C7 4248,GTWA 89C18 D517C 08915 0BB
58695 F162F B18 80A46 F3E38 0E2A7 81D06 FE 9903E 4043B
926F8 (4344 126F6 4D8F7 84052 40746.&:07 ::9 2655F 56273
3935C 7FD88 49090 16428 9DC7D D52E440 %%%:3,19RF
A1C:68FNCOEIAOC 15760 1D7F1 42054 AE786 8B78D C46FD 0B9

16023.7 kHz, 20-07, 0752 UTC, SITOR-A 100/170. Egyptian diplo i.p.
ending with: UII HJKJ SKV KDS ZDD YKS YKS +?

16067.7 kHz, 31-07, 1332 UTC, SITOR-A 100/170. Egyptian diplo i.p.

+?YKZK KDYFASH JQJLOKH 409

KDJQJLOH 44444 US KDPCF 77777 LJQJLOKH 476 \$@1@)9# 88NNL

NNN II US KDPCF 21 21 21 21

HUXD +?888(@

HPDJ YKZK US KJG KDDR YKS YKS

U YKS YKS

UTILITY ROUND-UP

Jammers

13735 kHz, 10-07, 1403 UTC Vietnamese Siren Jammer

18080 kHz, 13-07, 0700 UTC Chinese jammer jamming the Sound of Hope from Taiwan

Unid stations

An unid station transmitted French military music, and Marseillaise on 14122 kHz USB at 0800 UTC on 10-14 July.

3719 kHz, 27-07, 1340 UTC, CW. Copied by JP.

22819 518.. 99572 ...89 37925 28260 77.92 21249 14175 22065 =

48252 30..3 55751 65737 ..767 38025 = K

3NR 289 RPT (Other station also on this frequency)

25W

GR 17 G 7.22

GR 19 141.5

GR 22 30901

AA 55751 C 5737 96767 .8025 = K

RPT 9.. 9 ..

OK QRU AR

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

01-07, 1448 UTC	Sweetgum	30 chr EAM for Moss-01 YTXPH3 J3L6W7HGXXWZJM5LBESIS6K2H
01-07, 1517 UTC	Sweetgum	30 chr EAM F42LWT JLOYV2LYNEYZJ5OYKPY3ZXGZ
01-07, 1520 UTC	Sweetgum	30 chr EAM F47I03 DX4A7CT6ORVWVJP4REDOZNP7
01-07, 1529 UTC	Sweetgum	30 chr EAM F463VG M3HC2Z5YCWUFQX7Z43FEUNX
01-07, 1532 UTC	Sweetgum	30 chr EAM F44OBU POE7W7IBSD4SKY7IDY4M4MOO
01-07, 1545 UTC	Sweetgum	30 chr EAM F4N4AR OHULFJGW67RGTKHQ5BFWNDPH
02-07, 1516 UTC	Trousers	30 chr EAM F4V5P3 TTTIHGE6MUKENDYKXYHJYYGL disregard transmission
02-07, 1519 UTC	Trousers	30 chr EAM F4V5P3 TTTIHGE6MUKENDYKXYHJYYGL
02-07, 1748 UTC	Trousers	30 chr EAM for Setto-07 YTT3F4 4N7PKHOPIYED7ZRJF4TQVIQH disregard
02-07, 1751 UTC	Trousers	30 chr EAM for Setto-07 YTT3F4 4N7PKHOPIYED7ZRJF4TQVIQH
02-07, 1817 UTC	Trousers	30 chr EAM F4RKWT NCKGVYR5PH2OBKTDTE2PLTFN
03-07, 1517 UTC	Available	30 chr EAM F43GX2 YZV4G6ZZRIGKU6FSFTRGTEPA
03-07, 2017 UTC	Available	30 chr EAM YT2J66 AJBEWHZOJO2TR63RMH374T4B
08-07, 1713 UTC	Anti Trust	30 chr EAM to Woody Hill YTJPZR NVLIZBNBYMGYLAXY3QRUFUKN
08-07, 1738 UTC	Anti Trust	30 chr EAM to Woody Hill YTL4N 7TA4ZM3XCL6BY3DFIMZ4LT7L
09-07, 1648 UTC	Hardwood	30 chr EAM for NIGH-49 YTAUHV W5CK6W35V7ZX7CCHS6RZY5VP
09-07, 1717 UTC	Hardwood	30 chr EAM F4QU5I WYNWKFLZN7424UHGFPLCJJZS
09-07, 1732 UTC	Hardwood	30 chr EAM F4BVYF V3JP7L7YURWAPWTBANPJ6CQQ
12-07, 1449 UTC	All State	30 chr EAM for Embryo YTWJYY QFSYSRSL4O2M5YI57IBU7O47
12-07, 1513 UTC	All State	30 chr EAM for Loin YT4FBJ HDLCOX6JNGUZ5P37Y4DGH2B5
12-07, 1523 UTC	All State	30 chr EAM for Loin YTDMMKQ BEOX7XY7MY3WKOOOGHIOGWMO
12-07, 1546 UTC	All State	EAM. No callup but right into: 5 LYRG2H25DHTCA2RWNF2
12-07, 1602 UTC	All State	30 chr EAM C62BPM 5SPGBVDDADK2LR5U6L5LR53H
12-07, 1647 UTC	All State	30 chr EAM for Loin YTJ7MH BXMGUYBLZIN5TUQUHGBMDLJ7
12-07, 1703 UTC	All State	30 chr EAM for Loin YTW74A 5BFAQW63Z2R2NX3WS2B6VTBY
12-07, 1759 UTC	All State	30 chr EAM C6GHDG 6RXPFO5QOZELCKBPM25D2U4D
13-07, 1450 UTC	Fandango	30 chr EAM for Nail Keg, for Melodic YTFKPM A6V62WPVAYKXVYWZBEZMS4EK
13-07, 1520 UTC	Fandango	52 chr EAM YTVOWU Y6JSR34PQUGHFHY6TYFY67DTPN4H5PVWAVTPNW7SIOWSC
13-07, 1526 UTC	Fandango	30 chr EAM YTSKPY 3XX5XXYLQ5HVE6WP5JHYSY
13-07, 1529 UTC	Fandango	30 chr EAM YTXYFX PCR6A3KMC23SMYMBRUA3CBE
13-07, 1537 UTC	Fandango	30 chr EAM C6ADOO PQW3RBVLTN4D4IGD7FN74ZQ3
13-07, 1603 UTC	Fandango	30 chr EAM C64ZMA SWZVHIPR7UDB6RVDXUOFWTE
14-07, 1344 UTC	Neon Sign	30 chr EAM C6GQLE JPVCSMBKIJZBUNP4EZ2A4GRD
14-07, 1346 UTC	Neon Sign	30 chr EAM C6RKKB C2KCAMKVO3MOIA7JRHTMZY3K
14-07, 1632 UTC	Neon Sign	This is Neon Sign. Anybody for traffic?
14-07, 1711 UTC	Neon Sign	30 chr EAM C66T6V 5YFZKY2DUOBK5QQFZPBKUKNO
14-07, 1713 UTC	Neon Sign	30 chr EAM C6PRN5 4FPEC2RDWMXUNVLZQLDT6DQN
14-07, 1748 UTC	Neon Sign	30 chr EAM for Stoop-79 YT3NX6 EMVX2LBWEF3HJHSFXBTC6CL4
14-07, 1817 UTC	Neon Sign	30 chr EAM C62C3Z WWK6KPFNPHJ5SOPWCS4S6MDT
14-07, 2008 UTC	Neon Sign	30 chr EAM for Elf-79 YTZ4XP TSOLT35ZHA7VKXSTKYIPKX4I
14-07, 2011 UTC	Neon Sign	30 chr EAM C67HLY THGEJET3Z73JOD3REHZS6QYK
14-07, 2018 UTC	Neon Sign	30 chr EAM C6E5TO OI6OOWP57LHSEY7H6OK3BXQ3
15-07, 1303 UTC	Examiner	30 chr EAM for Key Man YT07KC FOKWK6GOAAZUV6KLGVFQ4VR7
15-07, 1401 UTC	Examiner	30 chr EAM for Dime Store YTE4FG L7ZYQDYZYQ5OQJFGEHPEDX7
15-07, 1425 UTC	Examiner	30 chr EAM for Dime Store YTGQ6R HKL3FS7ONVEI3V7ECAMOYJCQ
15-07, 1322 UTC	Examiner	30 chr EAM for Key Man YTHCFB Q72RADLPOPELDVW73Y4BQMMP
15-07, 1622 UTC	Examiner	30 chr EAM YT5F7P VPLXV7VQSPRYGWMMD34UBZO
15-07, 1632 UTC	Examiner	30 chr EAM C6LWIJ LYXJR7HPSCXR5DH3ETWZOHM
15-07, 1642 UTC	Examiner	30 chr EAM for Key Man YT7EMV 3VV7FQYFZV3RQGPBMU2KJFJH
15-07, 1853 UTC	Examiner	30 chr EAM for Key Man YTRFEC ZLNO3MP4TVJMKMVZYP4KIB4BR
15-07, 1833 UTC	Examiner	30 chr EAM for Key Man YTMWXXE SAXAQKKIX4QWYRDZWVEIUHXI
15-07, 2018 UTC	Examiner	30 chr EAM for Grim-85 YTXD7F ALAHCLSQXFUM374V7MVXBCZT
15-07, 2047 UTC	Examiner	30 chr EAM C6QAVX YK7MA2LHYQ4WOBZRSJ7LLYHO
16-07, 1603 UTC	Jewel Box	30 chr EAM for Dime Store 2CIVKN R6X2FPTQKJZSAQWAETH2P3FE

16-07, 1635 UTC	Jewel Box	30 chr EAM for Dime Store 2COY4L WJMO2OPMGAIRFTZT6J5P7FVH
16-07, 1747 UTC	Jewel Box	30 chr EAM for Saddle-91 2CIPT5 WCNXSAJYRI2WMMCVZ6HHQFTK
16-07, 1817 UTC	Jewel Box	30 chr EAM for C62IBU 53BZWAAG3KL4D6IK7IRMB5Z
16-07, 1829 UTC	Jewel Box	30 chr EAM for Dime Store 2CH43R ERBSC2WSYXLWHNF34F6WXLWN
16-07, 1858 UTC	Jewel Box	30 chr EAM for Dime Store 2CC267 7CC3THT2W6PGRZG7XG77IJZI
16-07, 2016 UTC	Jewel Box	30 chr EAM for Stoney-91 2CHESQ 4DEATJ3DZCZQO7I7ZQKBZVC4
17-07, 1439 UTC	Ball Foot	30 chr EAM for Control Kit 2CPITW N3VWVWVEYPXNCH6E64VBL7HB
17-07, 1455 UTC	Ball Foot	57 chr EAM 2CO2U2 GFXRFVAEF74JCQA6SXKA6S7KAKSBEOAGI7P5EMGAFMSDJ2B3O24
17-07, 1500 UTC	Ball Foot	36 chr EAM 2CZX5A disregard
17-07, 1501 UTC	Ball Foot	36 chr EAM 2CZX5A disregard
17-07, 1503 UTC	Ball Foot	36 chr EAM new operator 2CZX5A JC7VGJUVTIA7XP7RZNYMPBG7G22XNK7
17-07, 1530 UTC	Ball Foot	85 chr EAM 2CFYI6 CRWUWTLK6T35LFXCPN6XCPDSRBYF7RWKY6LWWYEAJ4UI3L5 6YMAL54SGL5KRJ7RWKY6LRPRJ4J4UI3B
17-07, 1807 UTC	Ball Foot	30 chr EAM 2CKGZT HJF5MOWGRGKM4EPFMWP7THLP
17-07, 1816 UTC	Ball Foot	30 chr EAM 2CXKTA WYZLKEHLSGG56OLFA3CKWQ2Y
17-07, 1906 UTC	Ball Foot	30 chr EAM C6OOGI ZJJ34E3EXB47VY5GVCV22FYP
17-07, 1918 UTC	Ball Foot	30 chr EAM C65SMC WBYRS3IILBFSSKUHSNGUNNW
17-07, 2023 UTC	Ball Foot	30 chr EAM C6JMZO ZGVCEBWN3TDMVL47OXXRLB6P
18-07, 1533 UTC	Colorful	47 chr EAM 2CMIBW RDZOADTA5UBHIMPVENUSBIOVG253MSSBIJUCLMTYL
18-07, 1552 UTC	Colorful	30 chr EAM 2CYDSB KTWT3C3BO4F25QADUVF2CQQTQ
18-07, 1559 UTC	Colorful	47 chr EAM 2CMIBW RDZOADTA5UBHIMPVENUSBIOVG253MSSBIJUCLMTYL
18-07, 1842 UTC	Colorful	30 chr EAM C6RBEF MGUZ2SDSNAATPQJA3YVWNW3Y
18-07, 2006 UTC	Colorful	30 chr EAM 2CLXTF VOVYMPN5P273MKNNQH3INMW
20-07, 2007 UTC	Showpiece	30 chr EAM C65NQW CTDEQE3NNLNBI2APCFPMIOW2
20-07, 2017 UTC	Showpiece	30 chr EAM for Tiffany-16 2C7IGK IWTE7YMGGCMQNLPCHOWD3D3L
20-07, 2020 UTC	Showpiece	30 chr EAM C6OS7R 6WYKUHT2N6DO33YDU6UJZTR
21-07, 1847 UTC	Blindfold	30 chr EAM C6CVH7 DYQQHFE4ESVXF2RL2K4VPOXJ
21-07, 2020 UTC	Blindfold	30 chr EAM for ???-22 2CNN2Z ALCL6IIHJNL4S373RBBY64TP
23-07, 1303 UTC	Reposses	30 chr EAM for Blues-12 2CTB5J KTR7GUXZHGMTXFPVPZJT7B
23-07, 1601 UTC	Reposses	30 chr EAM C6NW3M Z2J7V7XH5K2ZFPNPZHBBGCHS
23-07, 1605 UTC	Reposses	30 chr EAM C6AAFF IZ6DSEXWJT2PVZWWMGBHI33W
23-07, 1654 UTC	Reposses	30 chr EAM for Oxray-34 2CDMK2 6EOKGPW75LXNJNEDOPJ6FUAD
23-07, 1721 UTC	Reposses	30 chr EAM C637EH WBZINZPTFGZYLQ3TVAT6HF2A
23-07, 1842 UTC	Reposses	30 chr EAM C6F3OW EV5LYLNLCDZ43XEPJ23J7SF
23-07, 1908 UTC	Reposses	30 chr EAM C6DUX5 WNVWLHKRUUM3LHHUOVFLAQ6T
23-07, 2034 UTC	Reposses	30 chr EAM C653TZ X5HP74A5OK3LC6DT6AAGXGOU
27-07, 1609 UTC	Deer Run	30 chr EAM DAAKWF MSNYUDBPLN5SKQTSNPKYFKKM
27-07, 1753 UTC	Deer Run	30 chr EAM DAHKZG 67MU5J4MHDJ2ACKOC3GAAZCU
27-07, 1819 UTC	Deer Run	30 chr EAM for Region Charlie 2CBXNJ LWZ4O6AS62PAZE4QGJSG7NC
27-07, 1847 UTC	Deer Run	30 chr EAM DZ2OIN 4PDIX7OJLQDPDPIQ32RCFO5Y6J
27-07, 1905 UTC	Deer Run	30 chr EAM DA2SJS GLK7TXRTN6XEU6MHSFNLAUYG
28-07, 1718 UTC	Woodwork	102 chr EAM 524W7L XNYB2Z5FUJ5TCIRZE6H73APUSX4WACFHZRG4P7LKNNA IHXS4RWLHWCUBHMGWVJJJNSZG6EUW3V2NEJB6RPBVN3A3KFTDQIA
28-07, 1826 UTC	Woodwork	30 chr EAM for Boggy-64 2CSKOW 2MONSYW4XCPPFCWQBB5OXBG
28-07, 1845 UTC	Woodwork	30 chr EAM DAJPJ3 IE4L3C2OR7QA6O6IX3ESM25R
29-07, 1836 UTC	Road Map	30 chr EAM for Camel Train 2CDDQU FHUG5CQIS6NB76PNTYYDEOJ3
29-07, 1846 UTC	Road Map	30 chr EAM for Camel Train 2CQI5D IFT56FIUBDYBQ6OROBN24J5
29-07, 1914 UTC	Road Map	30 chr EAM for Retard JMM5BQ 3SAYP5FHILTJC2KY7L36CNB2
30-07, 1748 UTC	Economic	30 chr EAM for Ayba-76 JMU5KQ 74TWIKIPQDSBQYPI5NOY46BVI
30-07, 1816 UTC	Economic	30 chr EAM DAOHAG VQFYEQPCLSCGQMR5NE3FWW43

RUSSIAN MILITARY TRANSCRIPTS

Excerpts from logs submitted by Ary, Wolfgang, JPL, AnEur, Wolfgang and Ron.

M32 - Russian Military CW Stations

13964 kHz, 13-07, 0720-0755 UTC. Duplex net i.p.

91364 29021 63538 10609 45127 79644 17301 54956 95750 30268
67924 11856 46374 84029 18548 56204 90721 25240 13021 QTC K

RPT AL = 91364 K = 95750 K
RPT AL PA3S 638 19 13 1019 638 = 266 =

PPPPP JGUZW RVRLT QFPDD LNWNR QFPDD LNWNR QFPDD LNWNR NGLJN
LAAOP FQJIE AIÖDV ULONL GDLQG GFZWW WKPCB ÄEPÄU K

KHWV KHWV KHWV QTC AR
KHWV KHWV KHWV 600 13 13 1031 600 = 877 =
11111 73413 11070 42449 73829 11485 49141 83659 15039 46419 77798 13011 K RK

ELPM DE PA3S K = 600 13 13 1031 600 K RK K RK K

S21K DE PA3S K RK

9GEH DE GMSH K
9GEH DE GMSH K
9GEH DE GMSH K
9GEH DE GMSH ZEA ZPT ZFE ZKX ZPQ ZBP QSU1 QYT4 ZFR ZFR K
GMSH ZEA ZPT ZFE ZKX ZPQ ZBP QSU1 QYT4 ZFR ZFR K
OK AS GMSH ZEA ZPT ZFE ZKX ZPQ ZBP QSU1 QYT4 ZFR ZFR K
OK AS RPT K
GMSH RK

10858 kHz, 19-07, 0454 UTC, i.p.

593 50 =
40545 79539 34505 93291 99470 92661 90193 09371 99930 35515
59301 99937 35590 19309 37199 93035 51559 51199 93035 59009
67199 93035 51559 51199 93035 59009 67199 93035 51559 30199
93035 51875 05942 19993 08650 63369 94891 91399 41199 96086
50633 69951 91999 70921 61064 48218 35322 99545 63143 7XXXX
= 592 71 = etc

12272 kHz, 29-07, 0548 UTC, i.p.

32292 31403 49007 56750 95382 91135 46126 31511 79352
14950 07955 96706 32268 29030 988 K
PMYD PMYD PMYD DE PXN6 PXN6 QTC ?
PMYD PMYD PMYD DE PXN6 PXN6
563 34 29 0845 563 = ZHT 494 =
36217 19747 39542 07015 06816 22439 13731 97212 85120 63211
29113 92479 70399 74269 31413 50359 17742 08948 75196 00723
01327 85770 06852 68028 20078 13597 45738 18957 03136 32720
29030 988 K

13964 kHz, 29-07, 0807 UTC, i.p.

i.p. SDKMQ ZLEBI NEKMQ ZLEBI BLWAG JZEBV QKAÖÖ AÖBAL BMFOV ÖJOCZ BMUBM PUUHF VDKDD GMTJI MESDI WKOME
LEGFK KÖÖLH LPTHS UULMC WOPWT K

We continue with this still unid Russian military net. See also N&O #237 for further info.

Frequencies per 1 July:

Net control: 5596 kHz

Outstations: 5694 kHz

Callsigns per 1 July:

Net Control: A9LK

Collective call: NAZI

Outstations: BAVL, 2H9A, CGMV, AECK, GJKX

Callsigns per 11 July:

Net Control: IEDH

Collective call: BBKL

Outstations: OAD5, E407, AEBL, PTNW, TY2V

Callsigns per 21 July:

Net Control: 1M6F

Collective call: NUD4

Outstations: OT6Y, 5G5W, 9RMZ, 2XGW, 1D1E

Traffic:

5596 kHz, 01-07, 1819 UTC A9LK to GJKX

054 28 1 2110 054 = ZBZ 313

ZORON FOGOR LOGNN POSON FRORD ISORG GOBRR FODES ZIMON GOBEN

OZDEC QIWOJ SOGON GOROG LOFEN ZOREC POGOS FOROT ZOGOR LIMAS

ZORRO PONOR PIFAS CIGAN GOBER PÂPWT

(rpt all)

5596 kHz, 01-07, 1923 UTC A9LK to CGMV

111 28 1 2215 111 = ZPV 313

OSORO BIMON GGRE_ QIZON SIMAK OFERT ZIBON OZINA TOQEJ LLFAS

ELDAK SOLIS LOGEN WOGOR CHIZOR GOBER FIZON SISOM BIMAK LOFER

OZDEC GOBRE TIFON ZINOR GROFE PÂPWT

5596 kHz, 02-07, 1705 UTC

QSA calls A9LK with BAVL, 2H9A, CGMV, AECK, GJKX

5596 kHz, 04-07, 1750 UTC

A9LK clg NAZI

traffic from A9LK to BAVL

5596 kHz, 04-07, 1820 UTC A9LK to 2H9A

496 28 3 2120 496 = ZYV 938

KURKA KOBEL MUZAK LÛKRA ÔIRKA BOLTE FIHRO KUCHKA BOSTI FI_ÔI

PUCHAK FIROL BILK_ OROCHE LULBA XTXTW ÔÔKOP ZKDRR LILEA FURKE

DEBOCH PUÔKA FOÔER ROLLA BUHRE PEPWT

5596 kHz, 04-07, 1906 UTC A9LK to AECK

156 31 3 2200 156 = ZFY FM 502429 FOR 682533 938 =

BGOWH BCSLZ VNKOY FECVC MLLÂL GDQPU ÔRÔBP YBBÔCH GUQÂG DCHFSU

UKPWR OZPTB YRYBR CHNÔP ÂCHVMC ÔSNPO BLYÂB PVCHFEN ÔWQDA NZESG

GLQÛ_ GCIFE MBOHC DGAVW PBIÂM PEPWT 938

5596 kHz, 04-07, 2018 UTC A9LK to BAVL

311 28 3 2320 311 = ZUG 938

GRBRK FDGSK PERKI LALAK FISTI KIVET PURDI PULKE QICHTE BOKIR

LÛTIR LISTU SPIRI TISAS FOSIL BUREK ÔESTU PILBA ROKOT HUSTA

BELÂH FIÔER PURÔA LISTE PIZER PEPWT

5596 kHz, 09-07, 2023 UTC A9LK to AECK

462 28 9 2315 462 = ZUV 330

15540 66132 36212 98016 54086 89012 34931 80261 49231 69132
88913 46231 80021 51867 45013 58312 62136 93214 58167 80234
90123 58235 01010 54238 45678 09025

5596 kHz, 09-07, 2044 UTC A9LK to BAVL

699 28 9 2340 699 = ZGK 330

ZOBRO ÂIBON RORSR CHOWEN OZDAN BIMUR LOGEN ZOREG IZBAT GIFON
OZDEC GOREQ LOGEN BORZD ZONDT FILIN SOPEC ÂGENE TIFAK LOMER
EZRYG ÛGRAN OLENG POGOS SIFON POPWT

5596 kHz, 09-07, 2121 UTC A9LK to NAZI

525 27 10 00_0 524 = 283

OLFER ZOROB IWACHE LOGAN POSOR GOMER FOREÔ BIZEQ ZORSE POGON
LOGEN OFERT NORECH BOGER OFECHR WOGON SORGW POLOS ZORÂ__WLGO
CITAT OFERT GOBEN LOGAS BIMUR ÂPPWT

5596 kHz, 13-07, 2121 UTC IEDH to BBKL

884 27 13 2305 884 = 688

13908 67330 94003 76063 56302 78909 64036 78096 63064 78909
30302 90603 20264 30216 78306 73021 21013 40461 78081 63021
93031 41221 63091 65631 72101 13025

5596 kHz, 20-07, 1809 UTC IEDH to BBKL: Z-- Z-- Z-- QYT9

5596 kHz, 20-07, 1812 UTC IEDH to BBKL: QRJ NO K

5596 kHz, 20-07, 1819 UTC IEDH to BBKL: QMO QYT9 K

5596 kHz, 20-07, 1902 UTC IEDH to BBKL: QBE QYT9 K

5596 kHz, 22-07, 1938 UTC 1M6F to 5G5W

230 28 22 2235 239 = ZBO 915

17389 56930 07873 26127 53813 98980 37213 45434 78780 57381
93836 44354 43813 05936 73217 57858 90309 73874 54321 78780
35214 53203 89793 89038 05806 22025

5596 kHz, 22-07, 1949 UTC 1M6F to 5G5W

045 27 22 2245 045 = 915

figur domen zolon pogor lobeq azimo ofsgr âgwst porol grome
logen pinos volon Chirok iwaCHr lomuz ofert gorem zorob boreq
agond logus pogos limur grobl wwpwt

5596 kHz, 22-07, 2007 UTC 1M6F to NUD4

890 27 22 2300 890 = 915

34521 59381 87932 45438 59358 78241 93343 54845 38724 59730
85943 29167 79879 34810 35173 71137 59893 51054 45879 63120
03998 73133 87541 26930 75879 22025

5596 kHz, 25-07, 1923 UTC 1M6F to 1D1E

115 27 25 2220 115 = 778

eudek borra hutta filin kissi burti heôôa rulle tobias smuta
mudik funti kislo pozre kurbe holok kornx windi pilka hordi
kossi mobdx fizik ôerla bokra wtpwt

5596 kHz, 25-07, 1958 UTC 1M6F to NUD4

512 27 25 2300 512 = 778

fvnkd oprgn ifine qkndi ondio prgnd ondqk piond asqki onsd
dkkow wwgkn idonn prvkn dnndn fwwgk oprdi indvk dntgk odgww
sqknd diond inqkn isopr oidnk wtpwt

5596 kHz, 28-07, 1710 UTC 1M6F to 9RMZ

ZWI ZKD ZNV QYT4

5596 kHz, 28-07, 1732 UTC 1M6F to 5G5W

045 27 27 2030 045 = 247

74281 64530 70256 31482 70520 65392 75641 81367 42593 ?1731

76403 86752 92478 _3604 92745 87514 97863 03579 64715 03856

98625 _8974 14690 75826 14967 27025

5596 kHz, 28-07, 1959 UTC 1M6F to NUD4

019 27 27 2300 019 = 247

84291 75319 64302 58237 63772 85302 86420 75413 69348 74863

06413 97531 86524 70459 65974 17524 08642 97635 81560 76095

28635 19753 08746 92671 87196 27025

5596 kHz, 28-07, 2020 UTC 1M6F to OT6Y

032 27 27 2320 032 = 427

bruko swino stali gruha ôowyh wegra hbvdw hesup zbrat pukiCH

dorim switk sorbe turom wriCHo rimba woduk brime ewvba kriCHa

zumbi gambi wtori sbagg torca wupwt

5596 kHz, 28-07, 2032 UTC 1M6F to 1D1E

QBE QYT9

5596 kHz, 28-07, 2034 UTC 1M6F to OT6Y

ZUL ZOD ZPD QYT9

5596 kHz, 28-07, 2038 UTC 1M6F to OT6Y

QBE QYT9

5596 kHz, 28-07, 2114 UTC 1M6F to 1D1E

261 28 28 0010 261 = ZIK 009

spbgu worky torla sansa zewug hwdvz bCHtel sokwi bvnua glhma

tewil skire torpy winom pkual eCHboz hwdrl kitop beCHll jkawo

tubua i (transmitter fails and stops)

M32a - Russian Navy (Voyenno-Morskoy Flot Rossii)

8137 kHz, 07-07

0604 UTC RIT DE RAG58 554 19 7 0900 554 = FOR RJH45 RJH74 =

07061 99694 10339 41497 73010 10070 40084 52003 70122 874// 22200 00050 20503 3//// 4//// 88000 07016 =
+ RAG58 K

0605 UTC RBES: NAVY VESSEL PARADOKS SB-921

RIW DE RBES 443 16 7 0900 443 = SML FOR RJH45 RJD38 =

07061 99550 10167 41498 71706 10180 40162 54002 70222 87200 22223 20201 07012 =

+ RBES K

0647 UTC RIT DE RJP56 135 18 16 7 0918 135 = FOR RJH74 RJH45 =

07031 99707 10543 41498 30904 10130 40095 54000 70200 835// 22200 00094 20201 88000 80000 07015 =

+ RJP56 K

0650 UTC RIT DE RJP56 237 18 7 0921 237 = FOR RJH74 RJH45 =

07061 99707 10543 41498 31304 10160 40095 54000 70200 83511 22200 00096 20201 88000 80000 07015 =

+ RJP56 K

12464 kHz, 26-07, 0610 UTC. RAL65: Russian Navy Tanker Kama

RCV DE RAL65 QSL 724 QTC K

525 26 26 0845 525 = SML FOR RIT = 11111 07655 06851 04990 51221 82338

15586 kHz, 26-07, 0602 UTC. RCV: Russian Navy Sevastopol

RAL65 DE RCV QTC RKT K - 724 38 26 0850 724 = RKT = 22222 63467 73655 50154 75900 24187...

15586 kHz, 26-07, 0755 UTC

XXX XXX RJV RJV 01147 WYSWIST 7180 0588 K
 XXX XXX RJV RJV 94750 BASOGUL 0641 2858 K
 XXX XXX RJV RJV 81411 GONGOFRAK 6149 7585 K
 XXX XXX RJV RJV 54051 BOECONIL 6132 2257 K
 XXX XXX RJV RJV 73777 WYHUHOLX 7953 1906 K
 XXX XXX RJV RJV 71030 NEPOLNOTA 7125 1212 K
 XXX XXX RJV RJV 74041 ODNOLETKA 7691 2687 K
 XXX XXX RJV RJV 30176 MOZVEÖOK 0783 1709 K
 XXX XXX RJV RJV 91182 KERNOchIFR 1609 5539 K
 XXX XXX RJV RJV 38188 MOÖENI E 5266 1220 K
 XXX XXX RJV RJV 26595 NEUTESKLAD 4463 1276 K
 XXX XXX RJV RJV 08004 BASKOHLÜP 9532 6191 K

M32b - Russian Naval Aviation (Aviatsiya Voenno-morskogo Flota Rossii)**8816 kHz, 07-07**

0851 UTC RJF94 RJC38 DE 08006 QQM XRRT 0849 SK

0910 UTC RJF94 RJC38 DE 52592 QTH 16232 13340 QTR 0905 QBD 0400 QBG 5800 K
 QTH 16622 13334 QTR 0950 QBD 0300 QRE XLMV 1140 K
 QQM XLMV 1040 SK

1111 UTC RJF94 RJC38 DE 08006 QTO 1100 QRD XUMT XRRT QRE 1310 QBD 0600 K
 QTH 14949 14105 QTR 1158 QBG 7300 K
 QTH 15414 13854 QTR 1300 QBG 7100 K
 QQM XUMT 1315 K

1122 UTC RJF94 RJC38 DE 75181 QTO 1102 QRD XLMV XLWF QBD 0600 QRE 1332 K
 QAY XLPB 1143 QBG 6700 K
 QQL ULPE 1222 QBD 0415 QRE XLMV 1328 K
 QQM XLMV 1317 SK

1427 UTC RJF94 RJC38 DE 08006 QTO 1412 QRD XLWF XUMT QRE 1555 QBD 0330 K
 QTH 15842 13803 QTR 1514 QBG 4600 K
 QQM XLWF 1531 SK

1650 UTC RJF94 RJC38 DE 08006 QTO 1638 QRD XLMV XLWF QRE 1900 QBD 0430 K
 QTH 16319 13541 QTR 1739 QBG 6700 K
 QAY XLMG 1835 QBG 6700 K
 QQM XLMV 1856 SK

1816 UTC RJF94 RJC38 DE 65376 QTO 1800 QRD XLWF XLMD QRE 1940 QBD 0430 K
 QQL ULPE 1950 QBG 9400 QBD 0330 K
 QQM XLWF 2001 SK

8816 kHz, 25-07

0738 UTC RJF94 RJC38 DE 10616 QQM XLKE 0738 K

0914 UTC RJF94 RJC38 DE 10616 QTO 0909 QRD XRFA XRKE QRE 1040 QBD 0600 K
 QQM XRFA 1016 SK

1150 UTC RJF94 RJC38 DE 10616 QTO 1140 QRD XLWF XRFA QRE 1610 QBD 0600 K
 QTH 14652 13845 QTR 1243 QBK 7300 K
 QTH 15012 14117 QTR 1340 QBG 7300 K
 QTH 15414 13854 QTR 1342 QBG 7300 QBD 0300 K
 QTH 15830 13802 QTR 1540 QBD 0130 K
 QQM XLWF 1555 SK

1355 UTC RJF94 RJC38 DE 65376 QTO 1341 QRD XUMU XLAA QRE 1510 QBD 0400 K
 QQL ULWC 1440 QBG 9100 QBD 0300 K
 QQM XUMU 1513 SK

1713 UTC RJF94 RJC38 DE 10616 QTO 1706 QRD XLMV XLWF QRE 1925 QBD 0400 K

8816 kHz, 26-07

0700 UTC RJF94 RJC38 DE 10616 QTH 16637 15547 QTR 0655 QBG 5800 QBD 0300 QRE XUYK 0755 K

0841 UTC RJF94 RJC38 DE 10619 QTO XSSS QTR 0830 QRD XUMO QRE 1145 QBD 0500 K
 QTR 0930 QTH 5607 05335 QAH 240 QBD 0400 K
 QTR 1030 QTH 5603 04631 QAH 240 QBD 0300 K

1413 UTC RJF94 RJC38 DE 52593 QTO 1402 QRD XLMV XUYK QRE 1832 QBD 0530 K
 QTH 16936 15827 QTR 1508 QBG 6000 QBD 0430 K
 QTH 16859 15105 QTR 1550 QBG 6100 QBD 0400 K
 QTH 16810 14529 QTR 1626 QBG 6100 QBD 0330 K

LOGS SECTION

Code	Freq	Date	UTC	Day	Details	Mode	ctrb
---	10232	24-7	0816	Mon	i.p. DE 7AY. OK DE 7AY ZNN VA. R R 8DR. R R 8BR ZNN. R R DE 8BR ZNN	CW	(MPJ-CHN)
---	3719	27-7	1340	Thu	i.p. 22819 518.. 99572 ...89 37925 28260 77.92 21249 14175 22065 =	CW	(JPL-KOR)
DPRK	13333	26-7	0829	Wed	id 0xAD: North Korean diplo	DPRK-ARQ 600/600	(AB)
DPRK	14750	13-7	0714	Thu	North Korean diplo i.p.	DPRK-ARQ 600/600 LSB	(AB)
DPRK	14530	20-7	1227	Thu	id 0xB3: North Korean diplo wkg id 0xA5 on 14750 kHz	DPRK-ARQ 600/600 LSB	(AB)
DPRK	14750	20-7	1127	Thu	id 0xA5: North Korean diplo wkg id 0xB3 on 14530 kHz	DPRK-ARQ 600/600 LSB	(AB)
DPRK	16450	20-7	1231	Thu	North Korean diplo i.p.	DPRK-ARQ 600/600 LSB	(AB)
DPRK	14530	13-7	0705	Thu	North Korean diplo i.p.	DPRK-ARQ 600/600 LSB	(AB)
DPRK	13444	25-7	0657	Tue	North Korean diplo	DPRK-ARQ 600/600 LSB	(AB)
DPRK	16450	20-7	0745	Thu	North Korean diplo i.p.	DPRK-ARQ 600/600 LSB	(AB)
DPRK	14750	20-7	0701	Thu	id 0xA5: North Korean diplo wkg id 0xB3 on 14530 kHz	DPRK-ARQ 600/600 LSB	(AB)
DPRK	16450	31-7	0430	Mon	Id: 0xD0 North Korean diplo CQ-ing 16415kHz 14589kHz	DPRK-ARQ-600 LSB	(Danix)
DPRK	12850	26-7	0829	Wed	id 0xB4: North Korean diplo	DPRK-ARQ 600/600	(AB)
DPRK	14777	13-7	0720	Thu	North Korean diplo i.p.	DPRK-ARQ 600/600 LSB	(AB)
DPRK	11555	26-7	0833	Wed	North Korean Diplo	DPRK-ARQ 1200/1200	(AB)
DPRK	13244	26-7	0837	Wed	id 0xA5: North Korean diplo. Ends with opchat: 8rt ok sk	DPRK-ARQ 600/600	(AB)
DPRK	13333	26-7	1203	Wed	id 0xAD: North Korean diplo	DPRK-ARQ 600/600	(AB)
DPRK	13444	26-7	1203	Wed	North Korean diplo	DPRK-ARQ 600/600	(AB)
DPRK	12322	26-7	1203	Wed	id 0xAB: North Korean diplo	DPRK-ARQ 600/600	(AB)
DPRK	12345	26-7	1205	Wed	id 0xA8: North Korean diplo	DPRK-ARQ 600/600	(AB)
DPRK	16415	31-7	0432	Mon	Id: 0xC3 North Korean diplo responding	DPRK-ARQ-600 LSB	(Danix)

					to CQ		
DPRK	16950	16-7	1512	Sun	North Korean diplo i.p.	DPRK-ARQ 600/600 LSB	(AB)
DPRK	14530	20-7	0701	Thu	id 0xB3: North Korean diplo wkg id 0xA5 on 14750 kHz	DPRK-ARQ 600/600 LSB	(AB)
DPRK	12850	30-7	0826	Sun	id 0xB4: North Korean diplo	DPRK-ARQ 600/600 LSB	(AB)
DPRK	13333	31-7	0602	Mon	Id: 0xCC North Korean diplo CQ-ing 13555kHz 14244kHz 17320kHz 13555kHz; no answer until 0609 UTC	DPRK-ARQ-600 LSB	(Danix)
DPRK	14120	31-7	0604	Mon	Id: 0xD0 North Korean diplo in ISS mode stopped seconds later	DPRK-ARQ-600 LSB	(Danix)
DPRK	14125	31-7	0604	Mon	Id: 0xD0 North Korean diplo responding to CQ to a very weak unid Id: on the same frequency	DPRK-ARQ-600 LSB	(Danix)
DPRK	13555	31-7	0611	Mon	Id: 0xA5 North Korean diplo in ISS mode QSX 13155	DPRK-ARQ-600 LSB	(Danix)
DPRK	13155	31-7	0611	Mon	Id: 0xCC North Korean diplo in IRS mode QSX 13555	DPRK-ARQ-600 LSB	(Danix)
DPRK	14125	31-7	0615	Mon	Id: 0xD0 North Korean diplo CQ-ing 14125kHz no answer	DPRK-ARQ-600 LSB	(Danix)
DPRK	14444	31-7	1558	Mon	Id: 0xD2 North Korean diplo in ISS mode QSX 16020	DPRK-ARQ-600 LSB	(Danix)
DPRK	16020	31-7	1558	Mon	Id: 0xCE North Korean diplo in IRS mode QSX 14444	DPRK-ARQ-600 LSB	(Danix)
DPRK	14444	4-7	1511	Tue	North Korean diplo i.p.	DPRK-ARQ 600/600 LSB	(AB)
DPRK	13333	30-7	0826	Sun	id 0xAD: North Korean diplo	DPRK-ARQ 600/600 LSB	(AB)
DPRK	16450	13-7	0716	Thu	North Korean diplo i.p.	DPRK-ARQ 600/600 LSB	(AB)
DPRK	14115	13-7	0941	Thu	North Korean diplo i.p.	DPRK-ARQ 600/600 LSB	(AB)
DPRK	13555	3-7	1357	Mon	North Korean diplo. Starts at 1357z, ends at 1401z	DPRK-ARQ 600/600 LSB	(AB)
DPRK	12222	31-7	1300	Mon	id 0xB5. North Korean diplo i.p.	DPRK-ARQ 600/600 LSB	(AB)
DPRK	12333	31-7	1256	Mon	id 0xA6. North Korean diplo	DPRK-ARQ 600/600 LSB	(AB)
DPRK	13222	31-7	0628	Mon	id 0xAA. North Korean diplo	DPRK-ARQ 600/600 LSB	(AB)
DPRK	14885	31-7	0628	Mon	id 0xA5. North Korean diplo	DPRK-ARQ 600/600 LSB	(AB)
DPRK	12222	31-7	0629	Mon	id 0xB5. North Korean diplo	DPRK-ARQ 600/600 LSB	(AB)
DPRK	13333	31-7	0603	Mon	id 0xCC. North Korean diplo	DPRK-ARQ 600/600 LSB	(AB)
DPRK	14135	28-7	1609	Fri	id 0XD0: North Korean diplo ending a contact.	DPRK-ARQ 600/600 LSB	(AB)
DPRK	13122	30-7	0826	Sun	id 0xA5: North Korean diplo	DPRK-ARQ 600/600 LSB	(AB)
DPRK	12222	24-7	0628	Mon	id 0xB5. North Korean diplo	DPRK-ARQ 600/600 LSB	(AB)
DPRK	13444	20-7	0700	Thu	id 0xA5: unid North Korean embassy i.p.	DPRK-ARQ 600/600 LSB	(AB)
DPRK	16450	28-7	0716	Fri	id 0xCD: North Korean diplo i.p.	DPRK-ARQ 600/600 LSB	(AB)
DPRK	13555	28-7	0607	Fri	id 0xA5: North Korean diplo (QX 13333 kHz)	DPRK-ARQ 600/600 LSB	(AB)
DPRK	13333	28-7	0603	Fri	id 0xCC: North Korean diplo (QX 13555 kHz)	DPRK-ARQ 600/600 LSB	(AB)

DPRK	14444	15-7	2107	Sat	North Korean diplo i.p.	DPRK-ARQ 600/600	(AB)
DPRK	14885	20-7	0638	Thu	id 0xA5: North Korean diplo i.p.	DPRK-ARQ 600/600 LSB	(AB)
DPRK	14750	22-7	0700	Sat	id 0xA5: North Korean diplo wkg id 0xB3 on 14530 kHz	DPRK-ARQ 600/600 LSB	(AB)
DPRK	14530	22-7	0700	Sat	id 0xB3: North Korean diplo wkg id 0xA5 on 14750 kHz	DPRK-ARQ 600/600 LSB	(AB)
DPRK	14444	28-7	0733	Fri	id 0xD2: North Korean diplo i.p.	DPRK-ARQ 600/600 LSB	(AB)
DPRK	13333	24-7	0610	Mon	id 0xCC. North Korean diplo	DPRK-ARQ 600/600 LSB	(AB)
DPRK	12333	28-7	0732	Fri	id 0xCC: North Korean diplo i.p.	DPRK-ARQ 600/600 LSB	(AB)
DPRK	14530	24-7	0657	Mon	id 0xB3. North Korean diplo	DPRK-ARQ 600/600 LSB	(AB)
DPRK	13444	24-7	0658	Mon	North Korean diplo	DPRK-ARQ 600/600 LSB	(AB)
DPRK	14530	24-7	1231	Mon	id 0xB3: North Korean diplo wkg id 0xA5 on 14750 kHz	DPRK-ARQ 600/600 LSB	(AB)
DPRK	14750	24-7	1231	Mon	id 0xA5: North Korean diplo wkg id 0xB3 on 14530 kHz	DPRK-ARQ 600/600 LSB	(AB)
DPRK	13515	24-7	1212	Mon	id 0xAB: North Korean diplo	DPRK-ARQ 600/600 LSB	(AB)
DPRK	12350	24-7	1212	Mon	North Korean diplo	DPRK-ARQ 600/600 LSB	(AB)
DPRK	12222	24-7	1300	Mon	id 0xB5. North Korean diplo	DPRK-ARQ 600/600 LSB	(AB)
DPRK	13333	27-7	0602	Thu	id 0xCC: North Korean diplo (Qsx 13555 kHz)	DPRK-ARQ 600/600	(AB)
DPRK	13555	27-7	0602	Thu	id 0xA5: North Korean diplo (Qsx 13333 kHz)	DPRK-ARQ 600/600	(AB)
DPRK	13444	22-7	0659	Sat	id 0xA5: unid North Korean embassy i.p.	DPRK-ARQ 600/600 LSB	(AB)
DPRK	14530	28-7	1237	Fri	id 0xB3: North Korean diplo	DPRK-ARQ 600/600 LSB	(AB)
DPRK	12112	31-7	0628	Mon	id 0xA5. North Korean diplo	DPRK-ARQ 600/600 LSB	(AB)
DPRK	14125	28-7	1608	Fri	id 0XD0: North Korean diplo ending a contact.	DPRK-ARQ 600/600 LSB	(AB)
DPRK	14444	28-7	1613	Fri	id 0xD2: North Korean diplo sending offline crypto.	DPRK-ARQ 600/600 LSB	(AB)
DPRK	14444	28-7	1604	Fri	id 0xD2: North Korean diplo sending offline crypto.	DPRK-ARQ 600/600 LSB	(AB)
DPRK	14566	28-7	1318	Fri	North Korean diplo. Tones only, no data	Tones	(AB)
DPRK	14887	28-7	1307	Fri	North Korean diplo. Tones only, no data	Tones	(AB)
DPRK	14766	28-7	1309	Fri	id 0xCD: North Korean diplo	DPRK-ARQ 600/600 LSB	(AB)
DPRK	14771	28-7	1309	Fri	id 0xA5: North Korean diplo	DPRK-ARQ 600/600 LSB	(AB)
DPRK	12322	28-7	0732	Fri	id 0xAB: North Korean diplo	DPRK-ARQ 600/600 LSB	(AB)
DPRK	14750	28-7	1237	Fri	id 0xA5: North Korean diplo	DPRK-ARQ 600/600 LSB	(AB)
DPRK	13222	20-7	0645	Thu	id 0xAA: North Korean diplo i.p.	DPRK-ARQ 600/600 LSB	(AB)
DPRK	16555	28-7	1230	Fri	id 0xA5: North Korean diplo	DPRK-ARQ 600/600 LSB	(AB)
DPRK	16450	28-7	1231	Fri	id 0xCD: North Korean diplo	DPRK-ARQ 600/600	(AB)

						LSB	
DPRK	12345	28-7	1214	Fri	id 0xA8: North Korean diplo	DPRK-ARQ 600/600 LSB	(AB)
DPRK	13122	28-7	1205	Fri	id 0xA5: North Korean diplo	DPRK-ARQ 600/600 LSB	(AB)
DPRK	12322	28-7	1205	Fri	id 0xAB: North Korean diplo	DPRK-ARQ 600/600 LSB	(AB)
DPRK	12550	28-7	1201	Fri	id 0xA5: North Korean diplo	DPRK-ARQ 600/600 LSB	(AB)
DPRK	13333	28-7	1205	Fri	id 0xCC: North Korean diplo	DPRK-ARQ 600/600 LSB	(AB)
DPRK	12550	28-7	1201	Fri	id 0xA5: North Korean diplo	DPRK-ARQ 600/600 LSB	(AB)
DPRK	10400	28-7	0803	Fri	id 0xA4: North Korean diplo	DPRK-ARQ 600/600 LSB	(AB)
DPRK	14750	28-7	1309	Fri	id 0xA5: North Korean diplo	DPRK-ARQ 600/600 LSB	(AB)
DPRK	14444	22-7	1600	Sat	Id: 0xD2 North Korean diplo in IRS mode QSX 17320kHz	DPRK-ARQ-600 LSB	(Danix)
DPRK	14530	18-7	0656	Tue	Id: 0xB3 North Korean diplo in IRS mode QSX 14750kHz (the QSX later QSY'd to 15112kHz)	DPRK-ARQ-600 LSB	(Danix)
DPRK	12333	23-7	0730	Sun	Id: 0xA6 North Korean diplo in IRS mode unid QSX	DPRK-ARQ-600 LSB	(Danix)
DPRK	12550	23-7	0730	Sun	Id: 0xA5 North Korean diplo in IRS mode QSX 12322kHz	DPRK-ARQ-600 LSB	(Danix)
DPRK	12322	23-7	0730	Sun	Id: 0xAB North Korean diplo in ISS mode QSX 12550kHz	DPRK-ARQ-600 LSB	(Danix)
DPRK	16555	23-7	0700	Sun	Id: 0xA5 North Korean diplo in IRS mode QSX 16450kHz	DPRK-ARQ-600 LSB	(Danix)
DPRK	16450	23-7	0700	Sun	Id: 0xCD North Korean diplo in ISS mode QSX 16555kHz	DPRK-ARQ-600 LSB	(Danix)
DPRK	14750	23-7	0658	Sun	Id: 0xA5 North Korean diplo QSX 14530kHz	DPRK-ARQ-600 LSB	(Danix)
DPRK	14530	23-7	0658	Sun	Id: 0xB3 North Korean diplo QSX 14750kHz	DPRK-ARQ-600 LSB	(Danix)
DPRK	14885	23-7	0632	Sun	Id: 0xA5 North Korean diplo in ISS mode unid QSX	DPRK-ARQ-600 LSB	(Danix)
DPRK	13222	23-7	0630	Sun	Id: 0xAA North Korean diplo in ISS mode unid QSX. Transmitter still not repaired	DPRK-ARQ-600 LSB	(Danix)
DPRK	14444	23-7	0628	Sun	Id: 0xA5 North Korean diplo in ISS mode unid QSX	DPRK-ARQ-600 LSB	(Danix)
DPRK	13555	23-7	0603	Sun	Id: 0xA5 North Korean diplo in ISS mode QSX 13333kHz	DPRK-ARQ-600 LSB	(Danix)
DPRK	12750	23-7	0829	Sun	Id: 0xA5 North Korean diplo QSX 12850kHz	DPRK-ARQ-600 LSB	(Danix)
DPRK	17320	22-7	1600	Sat	Id: 0xCE North Korean diplo in ISS mode QSX 14444kHz	DPRK-ARQ-600 LSB	(Danix)
DPRK	13333	23-7	0829	Sun	Id: 0xAD North Korean diplo in IRS mode QSX 13122kHz	DPRK-ARQ-1200 LSB	(Danix)
DPRK	16555	22-7	1229	Sat	Id: 0xA5 North Korean diplo in IRS mode QSX 16450kHz	DPRK-ARQ-1200 LSB	(Danix)
DPRK	16450	22-7	1229	Sat	Id: 0xCD North Korean diplo in ISS mode QSX 16555kHz	DPRK-ARQ-1200 LSB	(Danix)
DPRK	17120	22-7	0715	Sat	Id: 0xD0 North Korean diplo CQ-ing 19850kHz no answer	DPRK-ARQ-600 LSB	(Danix)
DPRK	13555	31-7	0609	Mon	id 0xA5. North Korean diplo	DPRK-ARQ 600/600 LSB	(AB)
DPRK	14530	22-7	0658	Sat	Id: 0xB3 North Korean diplo in IRS mo-	DPRK-ARQ-600 LSB	(Danix)

					de QSX 14750kHz		
DPRK	12112	22-7	0629	Sat	Id: 0xA5 North Korean diplo QSX 12222kHz	DPRK-ARQ-600 LSB	(Danix)
DPRK	12222	22-7	0629	Sat	Id: 0xB5 North Korean diplo CQ-ing 12112kHz QSX 12122kHz	DPRK-ARQ-600 LSB	(Danix)
DPRK	13155	22-7	0623	Sat	Id: 0xCC North Korean diplo in IRS mode QSX 13555kHz	DPRK-ARQ-1200 LSB	(Danix)
DPRK	13555	22-7	0623	Sat	Id: 0xA5 North Korean diplo in ISS mode QSX 13155kHz	DPRK-ARQ-1200 LSB	(Danix)
DPRK	20330	22-7	0906	Sat	Id: 0xD0 North Korean diplo in ISS mode a lot of freqs used for QSX (20830, 22420, 19840, 17415, 19875 kHz)	DPRK-ARQ-600 LSB	(Danix)
DPRK	10400	22-7	0804	Sat	Id: 0xA4 North Korean diplo in IRS mode QSX 14115kHz	DPRK-ARQ-1200 LSB	(Danix)
DPRK	14115	22-7	0804	Sat	Id: 0xA5 North Korean diplo in ISS mode QSX 10400kHz	DPRK-ARQ-1200 LSB	(Danix)
DPRK	14750	18-7	0656	Tue	Id: 0xA5 North Korean diplo in ISS mode QSX 14530kHz (later QSY'd to 15112kHz)	DPRK-ARQ-600 LSB	(Danix)
DPRK	13333	23-7	0603	Sun	Id: 0xCC North Korean diplo in IRS mode QSX 13555kHz	DPRK-ARQ-600 LSB	(Danix)
DPRK	12333	24-7	1300	Mon	Id: 0xA6 North Korean diplo unid QSX (usual 12444kHz in PLUTO QRM)	DPRK-ARQ-1200 LSB	(Danix)
DPRK	12444	25-7	1300	Tue	Id: 0xA5 North Korean diplo in IRS mode QSX 12333kHz	DPRK-ARQ-600 LSB	(Danix)
DPRK	12333	25-7	1300	Tue	Id: 0xA6 North Korean diplo in ISS mode QSX 12444kHz	DPRK-ARQ-600 LSB	(Danix)
DPRK	13333	25-7	1203	Tue	Id: 0xAD North Korean diplo CQ-ing 13122kHz	DPRK-ARQ-600 LSB	(Danix)
DPRK	12345	25-7	1202	Tue	Id: 0xA8 North Korean diplo in ISS mode unid QSX	DPRK-ARQ-600 LSB	(Danix)
DPRK	12550	25-7	1200	Tue	Id: 0xA5 North Korean diplo waiting for 0xAB on 12322kHz no answer	DPRK-ARQ-600 LSB	(Danix)
DPRK	20840	25-7	0900	Tue	Id: 0xC3 North Korean diplo trying to re-gain contact for 52+ minutes	DPRK-ARQ-600 LSB	(Danix)
DPRK	12750	25-7	0829	Tue	Id: 0xA5 North Korean diplo in ISS mode QSX 12850kHz	DPRK-ARQ-600 LSB	(Danix)
DPRK	12850	25-7	0829	Tue	Id: 0xB4 North Korean diplo in IRS mode QSX 12750kHz	DPRK-ARQ-600 LSB	(Danix)
DPRK	10880	25-7	0807	Tue	Id: 0xA5 North Korean diplo replying to CQ	DPRK-ARQ-600 LSB	(Danix)
DPRK	12225	25-7	0806	Tue	Id: 0xA5 North Korean diplo replying to CQ	DPRK-ARQ-600 LSB	(Danix)
DPRK	10400	25-7	0804	Tue	Id: 0xA4 North Korean diplo CQ-ing 14544kHz no answer. Later tried 12225kHz and 10880kHz where it got answers.	DPRK-ARQ-600 LSB	(Danix)
DPRK	16020	25-7	0733	Tue	Id: 0xCE North Korean diplo in ISS mode QSX 14444kHz	DPRK-ARQ-600 LSB	(Danix)
DPRK	12850	23-7	0829	Sun	Id: 0xB4 North Korean diplo QSX 12750kHz	DPRK-ARQ-600 LSB	(Danix)
DPRK	12222	19-7	0631	Wed	Id: 0xB5 North Korean diplo CQ-ing from 0631 until 0647 UTC	DPRK-ARQ-600 LSB	(Danix)
DPRK	13222	22-7	0640	Sat	Id: 0xAA North Korean diplo in IRS mode unid QSX. Terrible transmitter	DPRK-ARQ-1200 LSB	(Danix)
DPRK	15450	24-7	1215	Mon	Id: 0xCA North Korean diplo unid QSX	DPRK-ARQ-600 LSB	(Danix)
DPRK	13515	24-7	1209	Mon	Id: 0xAB North Korean diplo unid QSX	DPRK-ARQ-600 LSB	(Danix)
DPRK	13444	24-7	1206	Mon	Id: 0xA5 North Korean diplo QSX 13333kHz	DPRK-ARQ-1200 LSB	(Danix)

DPRK	13333	24-7	1206	Mon	Id: 0xAD North Korean diplo QSX 13444kHz	DPRK-ARQ-1200 LSB	(Danix)
DPRK	14655	24-7	0947	Mon	Id: 0xA5 North Korean diplo in ISS mode unid QSX	DPRK-ARQ-600 LSB	(Danix)
DPRK	10400	24-7	0808	Mon	Id: 0xA4 North Korean diplo in IRS mode QSX 14115kHz	DPRK-ARQ-1200 LSB	(Danix)
DPRK	14115	24-7	0808	Mon	Id: 0xA5 North Korean diplo in ISS mode QSX 10400kHz	DPRK-ARQ-1200 LSB	(Danix)
DPRK	14750	24-7	0656	Mon	Id: 0xA5 North Korean diplo in ISS mode QSX 14530kHz	DPRK-ARQ-1200 LSB	(Danix)
DPRK	14530	24-7	0656	Mon	Id: 0xB3 North Korean diplo in IRS mode QSX 14750kHz	DPRK-ARQ-1200 LSB	(Danix)
DPRK	14885	24-7	0627	Mon	Id: 0xA5 North Korean diplo in IRS mode QSX 13222kHz	DPRK-ARQ-600 LSB	(Danix)
DPRK	13222	24-7	0627	Mon	Id: 0xAA North Korean diplo in ISS mode QSX 14885kHz. Terrible transmitter (do they even know?)	DPRK-ARQ-600 LSB	(Danix)
DPRK	16450	23-7	0902	Sun	Id: 0xD0 North Korean diplo in ISS mode unid QSX	DPRK-ARQ-600 LSB	(Danix)
DPRK	13122	23-7	0829	Sun	Id: 0xA5 North Korean diplo in ISS mode QSX 13333kHz	DPRK-ARQ-1200 LSB	(Danix)
DPRK	14444	25-7	0733	Tue	Id: 0xD2 North Korean diplo in IRS mode QSX 16020kHz	DPRK-ARQ-600 LSB	(Danix)
DPRK	13333	16-7	0829	Sun	Id: 0xAD North Korean diplo QRT-ing	DPRK-ARQ-600 LSB	(Danix)
DPRK	14750	17-7	1229	Mon	Id: 0xA5 North Korean diplo in IRS mode QSX 14530kHz	DPRK-ARQ-1200 LSB	(Danix)
DPRK	14530	17-7	1229	Mon	Id: 0xB3 North Korean diplo in ISS mode QSX 14750kHz	DPRK-ARQ-1200 LSB	(Danix)
DPRK	14750	17-7	0700	Mon	Id: 0xA5 North Korean diplo in IRS mode QSX 14530kHz	DPRK-ARQ-600 LSB	(Danix)
DPRK	14530	17-7	0700	Mon	Id: 0xB3 North Korean diplo in ISS mode QSX 14750kHz	DPRK-ARQ-600 LSB	(Danix)
DPRK	13205	17-7	0643	Mon	Id: 0xCC North Korean diplo in IRS mode unid QSX	DPRK-ARQ-600 LSB	(Danix)
DPRK	13233	17-7	0640	Mon	Id: 0xA5 North Korean diplo sending CQ's	DPRK-ARQ-600 LSB	(Danix)
DPRK	13222	17-7	0640	Mon	Id: 0xAA North Korean diplo unid QSX. Terrible transmitter	DPRK-ARQ-600 LSB	(Danix)
DPRK	13105	17-7	0624	Mon	Id: 0xCC North Korean diplo in ISS mode unid QSX	DPRK-ARQ-600 LSB	(Danix)
DPRK	15655	16-7	1154	Sun	Id: 0xCA North Korean diplo in ISS mode unid QSX	DPRK-ARQ-600 LSB	(Danix)
DPRK	12222	17-7	1259	Mon	Id: 0xB5 North Korean diplo in ISS mode unid QSX	DPRK-ARQ-1200 LSB	(Danix)
DPRK	16122	16-7	1138	Sun	Id: 0xC4 North Korean diplo in ISS mode unid QSX	DPRK-ARQ-600 LSB	(Danix)
DPRK	12850	16-7	0830	Sun	Id: 0xB4 North Korean diplo QRT-ing	DPRK-ARQ-600 LSB	(Danix)
DPRK	14750	22-7	0658	Sat	Id: 0xA5 North Korean diplo in ISS mode QSX 14530kHz	DPRK-ARQ-600 LSB	(Danix)
DPRK	14530	16-7	0700	Sun	Id: 0xB3 North Korean diplo in IRS mode QSX 14750kHz	DPRK-ARQ-600 LSB	(Danix)
DPRK	14885	16-7	0631	Sun	Id: 0xA5 North Korean diplo in ISS mode QSX 13333kHz	DPRK-ARQ-600 LSB	(Danix)
DPRK	13333	16-7	0631	Sun	Id: 0xCC North Korean diplo in IRS mode QSX 14885kHz	DPRK-ARQ-600 LSB	(Danix)
DPRK	14120	15-7	1607	Sat	Id: 0xD0 North Korean diplo in IRS mode in simplex mode with a very weak unid Id	DPRK-ARQ-600 LSB	(Danix)
DPRK	17320	15-7	1603	Sat	Id: 0xCE North Korean diplo in IRS mode unid QSX	DPRK-ARQ-600 LSB	(Danix)

DPRK	13111	15-7	0804	Sat	Id: 0xA5 North Korean diplo in IRS mode QSX 13333kHz	DPRK-ARQ-1200 LSB	(Danix)
DPRK	13333	15-7	0804	Sat	Id: 0xAC North Korean diplo in ISS mode QSX 13111kHz	DPRK-ARQ-1200 LSB	(Danix)
DPRK	14750	15-7	0657	Sat	Id: 0xA5 North Korean diplo in ISS mode QSX 14530kHz	DPRK-ARQ-600 LSB	(Danix)
DPRK	14530	15-7	0657	Sat	Id: 0xB3 North Korean diplo in IRS mode QSX 14750kHz	DPRK-ARQ-600 LSB	(Danix)
DPRK	16008	16-7	1140	Sun	Id: 0xCA North Korean diplo in ISS mode unid QSX	DPRK-ARQ-600 LSB	(Danix)
DPRK	15533	18-7	0648	Tue	Id: 0xAE North Korean diplo in IRS mode QSX 15555kHz	DPRK-ARQ-600 LSB	(Danix)
DPRK	14750	16-7	0700	Sun	Id: 0xA5 North Korean diplo in ISS mode QSX 14530kHz	DPRK-ARQ-600 LSB	(Danix)
DPRK	15555	18-7	0648	Tue	Id: 0xA5 North Korean diplo in ISS mode QSX 15533kHz	DPRK-ARQ-600 LSB	(Danix)
DPRK	13222	18-7	0636	Tue	Id: 0xAA North Korean diplo in IRS mode unid QSX. Terrible transmitter	DPRK-ARQ-1200 LSB	(Danix)
DPRK	14354	17-7	1302	Mon	Id: 0xA5 North Korean diplo in ISS mode unid QSX	DPRK-ARQ-1200 LSB	(Danix)
E06	13825	7-7	0500	Fri	679 384 51 65386 53598 47080 ... 59707 80162 94139 384 51 00000	USB	(AB)
E06	13825	6-7	0500	Thu	679 384 51 65386 53598 47080 ... 59707 80162 94139 384 51 00000	USB	(AB/ES/HFD)
E06	13827	18-7	0300	Tue	537 961 48 71849 15545 04011 ... 52084 56573 82672 961 48 00000	USB	(kalv)
E06	5890	20-7	1300	Thu	E06 instead of G06: 329 329 329 00000 Windows shutdown sound	USB	(AB-RUS/MPJ)
E06	12189	6-7	0400	Thu	361 582 30 87666 47887 67208 ... 31184 50590 41136 582 30 00000	USB	(kalv)
E06	15615	7-7	0600	Fri	679 384 51 65386 53598 47080 ... 59707 80162 94139 384 51 00000	USB	(AB)
E06	15615	20-7	0600	Thu	679 438 51 69587 73058 61027 ... 15800 42109 57544 438 51 00000	USB	(AB)
E06	15615	6-7	0600	Thu	679 384 51 65386 53598 47080 ... 59707 80162 94139 384 51 00000	USB	(AB/ES/HFD)
E06	13825	20-7	0500	Thu	679 438 51 69587 73058 61027 ... 15800 42109 57544 438 51 00000	USB	(AB)
E06	5731	7-7	2130	Fri	315 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000	USB	(AB)
E06	5731	21-7	2130	Fri	315 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000	USB	(AB)
E06	14845	6-7	0300	Thu	361 582 30 87666 47887 67208 ... 31184 50590 41136 582 30 00000	USB	(kalv)
E06b	10755	12-7	0932	Wed	975 84848 642 30 22089 07937 18475 ... 52751 34175 16313 642 30 00000	USB	(ES)
E06b	10755	12-7	0932	Wed	i.p. 975 84848 642 30 22089 07937 34175 16313 642 30 00000. Stops and restarts at 0938z	USB	(ES)
E07	10798	26-7	1740	Wed	817 1 506 71 55706 29983 14200 ... 94888 62473 20966 000 000	AM	(AB)
E07	10264	22-7	0620	Sat	024 1 533 47 41959 25950 28142 ... 32850 62317 32632 000 000	USB	(AB-RUS)
E07	16263	5-7	1900	Wed	273 1 696 91 90711 07600 80771 ... 47957 95125 76874 000 000	USB	(AB)
E07	9064	22-7	0600	Sat	024 1 533 47 41959 25950 28142 ... 32850 62317 32632 000 000	USB	(AB)
E07	14763	5-7	1920	Wed	273 1 696 91 90711 07600 80771 ... 47957 95125 76874 000 000	USB	(AB/RL)
E07	10798	23-7	1740	Sun	817 1 506 71 55706 29983 14200 ...	AM	(AB/MPJ)

					94888 62473 20966 000 000		
E07	11464	22-7	0640	Sat	024 1 533 47 41959 25950 28142 ... 32850 62317 32632 000 000	USB	(AB)
E07	12198	23-7	1720	Sun	817 1 506 71 55706 29983 14200 ... 94888 62473 20966 000 000	AM	(AB/MPJ)
E07	9064	2-7	0600	Sun	024 024 024 000	USB	(AB)
E07	13898	23-7	1700	Sun	817 1 506 71 55706 29983 14200 ... 94888 62473 20966 000 000	AM	(AB/MPJ)
E07	13363	5-7	1940	Wed	273 1 696 91 90711 07600 80771 ... 47957 95125 76874 000 000	USB	(AB)
E07	12198	26-7	1720	Wed	817 1 506 71 55706 29983 14200 ... 94888 62473 20966 000 000	AM	(AB)
E07	16263	26-7	1900	Wed	273 273 273 000	USB	(AB/GHn/M PJ)
E07	10798	9-7	1740	Sun	817 1 216 74 93766 33251 13037 ... 58493 21407 28415 000 000	AM	(AB/MPJ/HF D)
E07	10264	1-7	0620	Sat	024 024 024 000	USB	(AB/ES)
E07	19252	18-7	1100	Tue	242 242 242 000	USB	(AB/MPJ)
E07	17452	21-7	1120	Fri	242 242 242 000	USB	(AB/MPJ)
E07	12198	2-7	1720	Sun	817 1 497 122 66539 33715 06484 ... 11885 56163 43677 000 000	AM	(AB/MPJ/HF D)
E07	19252	25-7	1100	Tue	242 1 2076 167 46581 20833 82778 ... 00442 11279 26092 000 000	USB	(AB/MPJ/FT)
E07	17452	25-7	1120	Tue	242 1 2076 167 46581 20833 82778 ... 00442 11279 26092 000 000	USB	(AB/MPJ/FT)
E07	13898	2-7	1700	Sun	817 1 497 122 66539 33715 06484 ... 11885 56163 43677 000 000 stopped and restarted at 1705 UTC	AM	(AB/MPJ/HF D)
E07	14763	24-7	1920	Mon	273 273 273 000	USB	(AB/MPJ/RL)
E07	9064	1-7	0600	Sat	024 024 024 000	USB	(AB/ES)
E07	16263	24-7	1900	Mon	273 273 273 000	USB	(AB/MPJ/RL)
E07	10264	2-7	0620	Sun	024 024 024 000	USB	(AB)
E07	13898	26-7	1700	Wed	817 1 506 71 55706 29983 14200 ... 94888 62473 20966 000 000	AM	(AB/MPJ)
E07	13363	12-7	1940	Wed	273 1 696 91 90711 07600 80771 ... 47957 95125 76874 000 000	USB	(AB/RL/MPJ)
E07	16252	14-7	1140	Fri	242 1 7936 117 61504 57838 27192 ... 48474 16421 21556 000 000	USB	(AB/MPJ/HF D)
E07	17452	18-7	1120	Tue	242 242 242 000	USB	(AB/MPJ)
E07	10798	2-7	1740	Sun	817 1 497 122 66539 33715 06484 ... 11885 56163 43677 000 000	AM	(AB/MPJ/HF D)
E07	16252	25-7	1140	Tue	242 1 2076 167 46581 20833 82778 ... 00442 11279 26092 000 000	USB	(AB/MPJ)
E07	11464	23-7	0640	Sun	024 1 533 47 41959 25950 28142 ... 32850 62317 32632 000 000	USB	(AB)
E07	14763	26-7	1920	Wed	273 273 273 000	USB	(AB/MPJ)
E07	14763	10-7	1920	Mon	273 1 696 91 90711 07600 80771 ... 47957 95125 76874 000 000	USB	(AB/MPJ/Da n/skx/HFD)
E07	13363	10-7	1940	Mon	273 1 696 91 90711 07600 80771 ... 47957 95125 76874 000 000	USB	(AB/MPJ/Da n/skx/HFD)
E07	11464	8-7	0640	Sat	024 1 327 74 53499 69083 99014 ... 64904 97340 57842 000 000	USB	(AB/ES)
E07	16252	11-7	1140	Tue	242 1 7936 117 61504 57838 27192 ... 48474 16421 21556 000 000	USB	(AB/MPJ/ES)
E07	10264	8-7	0620	Sat	024 1 327 74 53499 69083 99014 ... 64904 97340 57842 000 000	USB	(AB/ES)
E07	12198	12-7	1720	Wed	817 1 216 74 93766 33251 13037 ... 58493 21407 28415 000 000	AM	(AB)
E07	19252	11-7	1100	Tue	242 1 7936 117 61504 57838 27192 ... 48474 16421 21556 000 000	USB	(AB/MPJ/ES)

E07	10264	9-7	0620	Sun	024 1 327 74 53499 69083 99014 ... 64904 97340 57842 000 000	USB	(AB)
E07	10264	23-7	0620	Sun	024 1 533 47 41959 25950 28142 ... 32850 62317 32632 000 000	USB	(AB)
E07	9064	23-7	0600	Sun	024 1 533 47 41959 25950 28142 ... 32850 62317 32632 000 000	USB	(AB)
E07	11539	6-7	2010	Thu	553 1 458 73 47700 22888 06742 ... 09846 21339 15380 000 000	AM	(AB)
E07	10547	6-7	2030	Thu	553 1 458 73 47700 22888 06742 ... 09846 21339 15380 000 000	AM	(AB)
E07	9388	6-7	2050	Thu	553 1 458 73 47700 22888 06742 ... 09846 21339 15380 000 000	AM	(AB)
E07	9064	8-7	0600	Sat	024 1 327 74 53499 69083 99014 ... 64904 97340 57842 000 000	USB	(AB/ES)
E07	17452	11-7	1120	Tue	242 1 7936 117 61504 57838 27192 ... 48474 16421 21556 000 000	USB	(AB/MPJ/ES)
E07	10547	13-7	2030	Thu	553 1 458 73 47700 22888 06742 ... 09846 21339 15380 000 000	AM	(AB/HFD)
E07	14763	12-7	1920	Wed	273 1 696 91 90711 07600 80771 ... 47957 95125 76874 000 000	USB	(AB/MPJ)
E07	16263	12-7	1900	Wed	273 1 696 91 90711 07600 80771 ... 47957 95125 76874 000 000	USB	(AB/MPJ)
E07	10798	12-7	1740	Wed	817 1 216 74 93766 33251 13037 ... 58493 21407 28415 000 000	AM	(AB)
E07	13898	12-7	1700	Wed	817 1 216 74 93766 33251 13037 ... 58493 21407 28415 000 000	AM	(AB)
E07	12198	9-7	1720	Sun	817 1 216 74 93766 33251 13037 ... 58493 21407 28415 000 000	AM	(AB/MPJ/HF D)
E07	19252	14-7	1100	Fri	242 1 7936 117 61504 57838 27192 ... 48474 16421 21556 000 000	USB	(AB/MPJ/HF D)
E07	10547	27-7	2030	Thu	553 1 778 87 50284 56513 67185 ... 34444 27249 46222 000 000	AM	(AB)
E07	9388	13-7	2050	Thu	553 1 458 73 47700 22888 06742 ... 09846 21339 15380 000 000	AM	(AB/HFD)
E07	11464	9-7	0640	Sun	024 1 327 74 53499 69083 99014 ... 64904 97340 57842 000 000	USB	(AB)
E07	11539	13-7	2010	Thu	553 1 458 73 47700 22888 06742 ... 09846 21339 15380 000 000	AM	(AB/HFD)
E07	13898	30-7	1700	Sun	817 817 817 000	AM	(AB/MPJ)
E07	11539	20-7	2010	Thu	553 553 553 000	AM	(AB)
E07	10547	20-7	2030	Thu	553 553 553 000	AM	(AB)
E07	16263	10-7	1900	Mon	273 1 696 91 90711 07600 80771 ... 47957 95125 76874 000 000	USB	(AB/MPJ/Da n/skx/HFD)
E07	9064	9-7	0600	Sun	024 1 327 74 53499 69083 99014 ... 64904 97340 57842 000 000	USB	(AB)
E07	17452	14-7	1120	Fri	242 1 7936 117 61504 57838 27192 ... 48474 16421 21556 000 000	USB	(AB/MPJ/HF D)
E07	19252	21-7	1100	Fri	242 242 242 000	USB	(AB/MPJ)
E07	10264	16-7	0620	Sun	024 1 327 74 53499 69083 99014 ... 64904 97340 57842 000 000	USB	(AB)
E07	10798	19-7	1740	Wed	817 1 506 71 55706 29983 14200 ... 94888 62473 20966 000 000	AM	(AB/MPJ)
E07	14763	31-7	1920	Mon	273 273 273 000	USB	(AB/MPJ)
E07	16263	31-7	1900	Mon	273 273 273 000	USB	(AB/RL/MPJ)
E07	9064	15-7	0600	Sat	024 1 327 74 53499 69083 99014 ... 64904 97340 57842 000 000	USB	(AB)
E07	10264	15-7	0620	Sat	024 1 327 74 53499 69083 99014 ... 64904 97340 57842 000 000	USB	(AB)
E07	11464	15-7	0640	Sat	024 1 327 74 53499 69083 99014 ... 64904 97340 57842 000 000	USB	(AB)

E07	13898	5-7	1700	Wed	817 2 283 55 56134 45300 14132 ... 26861 67798 77204 817 2 497 122 66539 33715 06484 ... 11885 56163 43677 000 000	AM	(AB/MPJ)
E07	11539	27-7	2010	Thu	553 1 778 87 50284 56513 67185 ... 34444 27249 46222 000 000	AM	(AB)
E07	9064	30-7	0600	Sun	024 1 533 47 41959 25950 28142 ... 32850 62317 32632 000 000	USB	(AB)
E07	9388	27-7	2050	Thu	553 1 778 87 50284 56513 67185 ... 34444 27249 46222 000 000	AM	(AB)
E07	12198	5-7	1727	Wed	817 2 283 55 56134 45300 14132 ... 26861 67798 77204 817 2 497 122 66539 33715 06484 ... 11885 56163 43677 000 000	AM	(AB/MPJ)
E07	16252	28-7	1140	Fri	242 1 2076 167 46581 20833 82778 ... 00442 11279 26092 000 000	USB	(AB)
E07	12198	19-7	1720	Wed	817 1 506 71 55706 29983 14200 ... 94888 62473 20966 000 000	AM	(AB/MPJ)
E07	9064	16-7	0600	Sun	024 1 327 74 53499 69083 99014 ... 64904 97340 57842 000 000	USB	(AB)
E07	13898	9-7	1700	Sun	817 1 216 74 93766 33251 13037 ... 58493 21407 28415 000 000	AM	(AB/MPJ)
E07	11464	16-7	0640	Sun	024 1 327 74 53499 69083 99014 ... 64904 97340 57842 000 000	USB	(AB)
E07	19252	7-7	1100	Fri	242 242 242 000	USB	(AB/MPJ/ES)
E07	17452	28-7	1120	Fri	242 1 2076 167 46581 20833 82778 ... 00442 11279 26092 000 000	USB	(AB)
E07	14763	19-7	1920	Wed	273 273 273 000	USB	(AB/MPJ)
E07	11464	30-7	0640	Sun	024 1 533 47 41959 25950 28142 ... 32850 62317 32632 000 000	USB	(AB)
E07	16263	19-7	1900	Wed	273 273 273 000	USB	(AB/GHn/M PJ)
E07	19252	28-7	1100	Fri	242 1 2076 167 46581 20833 82778 ... 00442 11279 26092 000 000	USB	(AB)
E07	10264	30-7	0620	Sun	024 1 533 47 41959 25950 28142 ... 32850 62317 32632 000 000	USB	(AB)
E07	10798	5-7	1753	Wed	817 2 283 55 56134 45300 14132 ... 26861 67798 77204 817 2 497 122 66539 33715 06484 ... 11885 56163 43677 000 000	AM	(AB/MPJ)
E07	13898	16-7	1700	Sun	817 1 506 71 55706 29983 14200 ... 94888 62473 20966 000 000	AM	(AB)
E07	12198	16-7	1720	Sun	817 1 506 71 55706 29983 14200 ... 94888 62473 20966 000 000	AM	(AB)
E07	10798	16-7	1740	Sun	817 1 506 71 55706 29983 14200 ... 94888 62473 20966 000 000	AM	(AB/MPJ)
E07	17452	7-7	1120	Fri	242 242 242 000	USB	(AB/MPJ/ES)
E07	13363	3-7	1940	Mon	273 1 696 91 90711 07600 80771 ... 47957 95125 76874 000 000	USB	(AB/MPJ/HF D)
E07	16263	17-7	1900	Mon	273 273 273 000	USB	(AB/MPJ)
E07	16263	3-7	1900	Mon	273 1 696 91 90711 07600 80771 ... 47957 95125 76874 000 000	USB	(AB/MPJ/HF D)
E07	14763	3-7	1920	Mon	273 1 696 91 90711 07600 80771 ... 47957 95125 76874 000 000	USB	(AB/MPJ/HF D)
E07	9064	29-7	0600	Sat	024 1 533 47 41959 25950 28142 ... 32850 62317 32632 000 000	USB	(AB)
E07	14763	17-7	1920	Mon	273 273 273 000	USB	(AB/MPJ)
E07	10264	29-7	0620	Sat	024 1 533 47 41959 25950 28142 ... 32850 62317 32632 000 000	USB	(AB)
E07	11464	29-7	0640	Sat	024 1 533 47 41959 25950 28142 ...	USB	(AB)

					32850 62317 32632 000 000		
E07	12198	30-7	1720	Sun	817 817 817 000	AM	(AB/MPJ)
E07	13898	19-7	1700	Wed	817 1 506 71 55706 29983 14200 ... 94888 62473 20966 000 000	AM	(AB/MPJ)
E07a	13973	22-7	0820	Sat	198 198 198 000	USB	(AB)
E07a	12173	29-7	0800	Sat	198 198 198 000	USB	(AB)
E07a	10233	13-7	0510	Thu	912 1 65248 8960 31 15657 12373 56594 ... 80927 39280 63523 000 000	USB	(AB/ES)
E07a	11413	28-7	1530	Fri	241 241 241 000	USB	(AB/MPJ)
E07a	12213	28-7	1510	Fri	241 241 241 000	USB	(AB/MPJ)
E07a	12213	7-7	1510	Fri	241 241 241 000	USB	(AB/MPJ)
E07a	12166	12-7	2000	Wed	172 1 65248 8960 31 15657 12373 56594 ... 80927 39280 63523 000 000	USB	(AB/RL/MPJ)
E07a	11413	7-7	1530	Fri	241 241 241 000	USB	(AB/MPJ)
E07a	13973	1-7	0820	Sat	198 198 198 000	USB	(AB/HFD)
E07a	9133	20-7	0450	Thu	912 912 912 000	USB	(AB)
E07a	10766	19-7	2020	Wed	172 172 172 000	USB	(AB)
E07a	13898	9-7	1700	Sun	817 1 216 74 93766	USB	(HFD)
E07a	10766	26-7	2020	Wed	172 172 172 000	USB	(AB)
E07a	12173	22-7	0800	Sat	198 198 198 000	USB	(AB)
E07a	12166	26-7	2000	Wed	172 172 172 000	USB	(AB)
E07a	12213	21-7	1510	Fri	241 241 241 000	USB	(AB/MPJ)
E07a	11413	21-7	1530	Fri	241 241 241 000	USB	(AB/GHn/M PJ)
E07a	12166	19-7	2000	Wed	172 172 172 000	USB	(AB)
E07a	12166	5-7	2000	Wed	172 172 172 000	USB	(AB/RL)
E07a	12173	1-7	0800	Sat	198 198 198 000	USB	(AB/HFD)
E07a	9133	27-7	0450	Thu	912 912 912 000	USB	(AB)
E07a	13973	15-7	0820	Sat	198 198 198 000	USB	(AB)
E07a	12173	8-7	0800	Sat	198 198 198 000	USB	(AB)
E07a	13973	8-7	0820	Sat	198 198 198 000	USB	(AB)
E07a	9133	6-7	0450	Thu	912 912 912 000	USB	(AB/ES)
E07a	12173	15-7	0800	Sat	198 198 198 000	USB	(AB)
E07a	11413	14-7	1530	Fri	241 241 241 000	USB	(AB/MPJ/HF D)
E07a	13973	29-7	0820	Sat	198 198 198 000	USB	(AB)
E07a	9266	12-7	2040	Wed	172 1 65248 8960 31 15657 12373 56594 ... 80927 39280 63523 000 000	USB	(AB)
E07a	10766	5-7	2020	Wed	172 172 172 000	USB	(AB)
E07a	7933	13-7	0430	Thu	912 1 65248 8960 31 15657 12373 56594 ... 80927 39280 63523 000 000	USB	(AB/ES)
E07a	10766	12-7	2020	Wed	172 1 65248 8960 31 15657 12373 56594 ... 80927 39280 63523 000 000	USB	(AB)
E07a	12213	14-7	1510	Fri	241 241 241 000	USB	(AB/MPJ/HF D)
E07a	7933	20-7	0430	Thu	912 912 912 000	USB	(AB)
E07a	9133	13-7	0450	Thu	912 1 65248 8960 31 15657 12373 56594 ... 80927 39280 63523 000 000	USB	(AB/ES)
E07a	7933	27-7	0430	Thu	912 912 912 000	USB	(AB)
E07a	7933	6-7	0430	Thu	912 912 912 000	USB	(AB/ES)
E11	12397	18-7	1000	Tue	300/00	USB	(MPJ)
E11	6304	5-7	0930	Wed	276/00	USB	(AB/MPJ)
E11	15800	21-7	0600	Fri	188/00	USB	(AB-AUT)
E11	13424	18-7	0645	Tue	510/00	USB	(AB)
E11	10429	18-7	0710	Tue	636/00	USB	(AB)
E11	13911	18-7	0820	Tue	135/00	USB	(AB)
E11	10429	4-7	0710	Tue	639/00	USB	(ES)
E11	14575	4-7	1645	Tue	331/00	USB	(AB/MPJ)
E11	4793	4-7	1605	Tue	238/00	USB	(AB/MPJ)
E11	14865	19-7	1705	Wed	393/00	USB	(MPJ)

E11	13424	13-7	0645	Thu	518/00	USB	(AB)
E11	10429	21-7	0710	Fri	631/00	USB	(AB)
E11	15795	19-7	1625	Wed	975/00	USB	(MPJ)
E11	9130	30-7	2005	Sun	360/00	USB	(AB)
E11	14575	13-7	1645	Thu	337/00	USB	(AB/MPJ/RL-HOL)
E11	13427	10-7	0900	Mon	532/00	USB	(AB)
E11	6280	10-7	0820	Mon	432/00	USB	(AB)
E11	15800	10-7	0640	Mon	945/00	USB	(AB-AUT)
E11	7469	10-7	0450	Mon	412/00	USB	(AB)
E11	6480	23-7	0710	Sun	491/00	USB	(HFD)
E11	8565	6-7	0315	Thu	25x/00 unreadable	USB	(ES)
E11	14940	30-7	1650	Sun	925/00	USB	(AB/FT)
E11	12397	14-7	1000	Fri	304/00	USB	(AB/MPJ)
E11	6304	18-7	1205	Tue	460/00	USB	(AB)
E11	13537	21-7	1225	Fri	527/00	USB	(AB/MPJ)
E11	9130	9-7	2005	Sun	369/00	USB	(AnEur)
E11	13873	25-7	1045	Tue	577/00	USB	(AB/MPJ)
E11	4793	18-7	1605	Tue	238/00	USB	(AB)
E11	14410	30-7	1745	Sun	242/00	USB	(GHn/MPJ)
E11	15795	30-7	1625	Sun	975/00	USB	(AB/FT)
E11	8565	20-7	0315	Thu	250/00	USB	(AB)
E11	6280	13-7	0820	Thu	434/00	USB	(AB)
E11	6480	30-7	0710	Sun	491/00	USB	(AB)
E11	9079	30-7	0805	Sun	315/00	USB	(AB/FT)
E11	15720	21-7	0745	Fri	349/00	USB	(AB)
E11	11581	13-7	1300	Thu	587/00	USB	(AB/MPJ/RL-HOL)
E11	11581	25-7	1925	Tue	550/00	USB	(AB/GHn/MPJ)
E11	13537	14-7	1225	Fri	521/00	USB	(AB/MPJ)
E11	11581	13-7	1925	Thu	557/00	USB	(AB/MPJ)
E11	7984	19-7	1730	Wed	404/00	USB	(AB/MPJ)
E11	14575	25-7	1645	Tue	337/00	USB	(AB/MPJ)
E11	12397	21-7	1000	Fri	307/00	USB	(AB/MPJ)
E11	12397	11-7	1000	Tue	300/00	USB	(ES)
E11	15800	14-7	0600	Fri	183/00	USB	(AB/ES)
E11	15720	14-7	0745	Fri	348/00	USB	(AB)
E11	13537	10-7	1225	Mon	528/00	USB	(AB/MPJ)
E11	13424	4-7	0645	Tue	515/00	USB	(AB)
E11	11581	15-7	1300	Sat	583/00	USB	(MPJ)
E11	6304	6-7	0930	Thu	279/00	USB	(AB/MPJ)
E11	15800	3-7	0600	Mon	183/00	USB	(AB)
E11	15800	3-7	0640	Mon	946/00	USB	(AB)
E11	7984	26-7	1730	Wed	400/00	USB	(AB)
E11	9610	3-7	0745	Mon	261/00	USB	(AB)
E11	6280	3-7	0820	Mon	430/00	USB	(AB)
E11	13427	3-7	0900	Mon	538/00	USB	(AB)
E11	7469	3-7	0450	Mon	412/00	USB	(AB)
E11	8088	13-7	1730	Thu	413/00	USB	(AB/MPJ)
E11	8565	5-7	0315	Wed	253/00	USB	(ES)
E11	9079	29-7	0805	Sat	310/00	USB	(AB)
E11	15825	15-7	1345	Sat	915/00	USB	(AB)
E11	14865	15-7	1705	Sat	395/00	USB	(AB/MPJ)
E11	15795	26-7	1625	Wed	972/00	USB	(MPJ)
E11	9130	15-7	2005	Sat	364/00	USB	(AB)
E11	7600	6-7	0530	Thu	644/00	USB	(AB/ES)
E11	13424	6-7	0645	Thu	517/00	USB	(AB)
E11	6480	8-7	0710	Sat	491/00	USB	(AB)
E11	11581	11-7	1925	Tue	558/00	USB	(AB/MPJ)

E11	4783	2-7	1605	Sun	238/00	USB	(AB/MPJ)
E11	15720	12-7	0745	Wed	346/00	USB	(AB)
E11	14940	14-7	1650	Fri	926/00	USB	(AB/MPJ)
E11	15800	12-7	0640	Wed	945/00	USB	(AB/ES)
E11	13424	20-7	0645	Thu	514/00	USB	(AB)
E11	7984	1-7	1730	Sat	404/00	USB	(AB/GHn)
E11	14865	1-7	1705	Sat	394/00	USB	(AB/MPJ/GHn)
E11	11581	1-7	1300	Sat	588/00	USB	(MPJ)
E11	7600	3-7	0530	Mon	643/00	USB	(AB)
E11	6480	2-7	0710	Sun	490/00	USB	(AB)
E11	14575	11-7	1645	Tue	331/00	USB	(MPJ)
E11	15795	2-7	1625	Sun	977/00	USB	(AB/MPJ)
E11	14940	2-7	1650	Sun	929/00	USB	(AB/MPJ)
E11	8530	14-7	2000	Fri	573/00	USB	(AB/GHn)
E11	8565	27-7	0315	Thu	256/00	USB	(AB)
E11	14410	2-7	1745	Sun	249/00	USB	(MPJ)
E11	9510	2-7	1910	Sun	612/00	USB	(MPJ)
E11	15800	5-7	0640	Wed	945/00	USB	(AB/ES)
E11	6480	29-7	0710	Sat	490/00	USB	(AB)
E11	7600	20-7	0530	Thu	648/00	USB	(AB)
E11	7984	8-7	1730	Sat	408/00	USB	(AB/ES)
E11	6280	6-7	0820	Thu	434/00	USB	(AB)
E11	13911	26-7	0820	Wed	131/00	USB	(AB)
E11	9079	8-7	0805	Sat	314/00	USB	(AB)
E11	11581	8-7	1300	Sat	589/00	USB	(MPJ)
E11	13537	17-7	1225	Mon	525/00	USB	(AB/MPJ)
E11	15825	8-7	1345	Sat	914/00	USB	(AB/MPJ/ES)
E11	9130	29-7	2005	Sat	364/00	USB	(AB)
E11	13427	17-7	0900	Mon	530/00	USB	(AB/MPJ)
E11	14865	8-7	1705	Sat	391/00	USB	(AB/MPJ)
E11	6280	17-7	0820	Mon	438/00	USB	(AB)
E11	15720	26-7	0745	Wed	342/00	USB	(AB)
E11	13911	12-7	0820	Wed	135/00	USB	(AB)
E11	13427	12-7	0900	Wed	536/00	USB	(AB/ES)
E11	15800	26-7	0640	Wed	945/00	USB	(AB)
E11	6304	12-7	1205	Wed	460/00	USB	(AB/MPJ)
E11	13427	5-7	0900	Wed	536/00	USB	(AB/ES)
E11	15795	12-7	1625	Wed	972/00	USB	(AB/MPJ)
E11	14410	17-7	1745	Mon	249/00	USB	(AB/MPJ)
E11	13424	11-7	0645	Tue	519/00	USB	(AB)
E11	8088	6-7	1730	Thu	414/00	USB	(AB/MPJ)
E11	4793	11-7	1605	Tue	236/00	USB	(AB/MPJ)
E11	11581	6-7	1300	Thu	580/00	USB	(AB/MPJ)
E11	15825	29-7	1345	Sat	918/00	USB	(AB)
E11	6304	11-7	1205	Tue	464/00	USB	(AB)
E11	9079	16-7	0805	Sun	311/00	USB	(AB)
E11	4783	16-7	1605	Sun	231/00	USB	(AB/MPJ)
E11	13873	11-7	1045	Tue	576/00	USB	(AB/MPJ/ES)
E11	6480	1-7	0710	Sat	497/00	USB	(AB)
E11	14575	6-7	1645	Thu	331/00	USB	(AB-I)
E11	14865	12-7	1705	Wed	399/00	USB	(AB)
E11	13911	11-7	0820	Tue	132/00	USB	(AB)
E11	15795	16-7	1625	Sun	977/00	USB	(AB/MPJ)
E11	14940	16-7	1650	Sun	920/00	USB	(AB/MPJ)
E11	14410	16-7	1745	Sun	242/00	USB	(AB)
E11	9130	16-7	2005	Sun	367/00	USB	(AB/MPJ)
E11	7984	29-7	1730	Sat	405/00	USB	(AB/MPJ)
E11	7469	17-7	0450	Mon	414/00	USB	(AB)
E11	9610	17-7	0745	Mon	260/00	USB	(AB)

E11	10356	6-7	1530	Thu	266/00	USB	(AB/dmhz/M PJ/ES)
E11	6480	9-7	0710	Sun	495/00	USB	(AB)
E11	10429	7-7	0710	Fri	634/00	USB	(AB)
E11	6304	4-7	1205	Tue	461/00	USB	(AB/MPJ)
E11	14410	31-7	1745	Mon	244/00	USB	(AB/MPJ)
E11	6304	19-7	0930	Wed	278/00	USB	(AB)
E11	9079	9-7	0805	Sun	315/00	USB	(AB)
E11	7600	27-7	0530	Thu	644/00	USB	(AB)
E11	13873	4-7	1045	Tue	576/00	USB	(AB/MPJ/ES)
E11	9130	8-7	2005	Sat	367/00	USB	(AB)
E11	10429	25-7	0710	Tue	633/00	USB	(AB)
E11	13427	19-7	0900	Wed	535/00	USB	(AB)
E11	9130	22-7	2005	Sat	360/00	USB	(AB)
E11	6304	19-7	1205	Wed	465/00	USB	(AB)
E11	15795	23-7	1625	Sun	975/00	USB	(AB/MPJ)
E11	7984	22-7	1730	Sat	402/00	USB	(AB)
E11	11581	20-7	1925	Thu	557/00	USB	(AB/MPJ)
E11	12202	27-7	0845	Thu	156/00	USB	(AB)
E11	6304	27-7	0930	Thu	278/00	USB	(AB)
E11	13537	28-7	1225	Fri	528/00	USB	(AB)
E11	9079	23-7	0805	Sun	316/00	USB	(AB)
E11	14940	23-7	1650	Sun	920/00	USB	(AB/MPJ)
E11	14410	23-7	1745	Sun	248/00	USB	(MPJ)
E11	13911	19-7	0820	Wed	138/00	USB	(AB)
E11	9130	23-7	2005	Sun	366/00	USB	(AB)
E11	7469	31-7	0450	Mon	413/00	USB	(AB)
E11	4783	23-7	1605	Sun	236/00	USB	(AB/MPJ)
E11	11581	18-7	1925	Tue	553/00	USB	(AB/MPJ)
E11	15720	19-7	0745	Wed	348/00	USB	(AB)
E11	14940	28-7	1650	Fri	926/00	USB	(AB)
E11	14865	22-7	1705	Sat	391/00	USB	(AB)
E11	7600	24-7	0530	Mon	640/00	USB	(AB)
E11	13537	31-7	1225	Mon	521/00	USB	(AB/GHn/M PJ)
E11	15800	24-7	0600	Mon	184/00	USB	(AB)
E11	6480	23-7	0710	Sun	491/00	USB	(AB)
E11	15800	24-7	0640	Mon	945/00	USB	(AB)
E11	9610	24-7	0745	Mon	264/00	USB	(AB)
E11	13427	31-7	0900	Mon	533/00	USB	(AB)
E11	11581	22-7	1300	Sat	585/00	USB	(MPJ)
E11	6280	20-7	0820	Thu	435/00	USB	(AB)
E11	7984	5-7	1730	Wed	400/00	USB	(AB/MPJ/RL)
E11	12397	25-7	1000	Tue	305/00	USB	(AB/MPJ)
E11	8530	28-7	2000	Fri	570/00	USB	(AB)
E11	4783	9-7	1605	Sun	237/00	USB	(AB/MPJ)
E11	11581	27-7	1925	Thu	558/00	USB	(AB/MPJ)
E11	13537	24-7	1225	Mon	525/00	USB	(AB/MPJ)
E11	10356	20-7	1530	Thu	266/00	USB	(AB/GHn/M PJ)
E11	8088	20-7	1730	Thu	412/00	USB	(MPJ)
E11	15800	31-7	0640	Mon	941/00	USB	(AB)
E11	14940	21-7	1650	Fri	921/00	USB	(AB/MPJ)
E11	15800	28-7	0600	Fri	183/00	USB	(AB-AUT)
E11	6304	5-7	1205	Wed	463/00	USB	(AB/MPJ)
E11	10429	28-7	0710	Fri	635/00	USB	(AB)
E11	7600	31-7	0530	Mon	640/00	USB	(AB)
E11	15720	28-7	0745	Fri	348/00	USB	(AB)
E11	6304	20-7	0930	Thu	277/00	USB	(AB/MPJ)
E11	11581	20-7	1300	Thu	586/00	USB	(AB/MPJ)

E11	9610	31-7	0745	Mon	264/00	USB	(AB)
E11	13911	25-7	0820	Tue	135/00	USB	(AB)
E11	14410	24-7	1745	Mon	248/00	USB	(AB)
E11	10356	27-7	1530	Thu	261/00	USB	(AB/MPJ)
E11	14865	5-7	1705	Wed	393/00	USB	(KK2/MPJ)
E11	12202	25-7	0845	Tue	150/00	USB	(AB)
E11	15825	4-7	1345	Tue	910/00	USB	(AB/MPJ)
E11	14575	27-7	1645	Thu	337/00	USB	(AB/MPJ)
E11	12397	28-7	1000	Fri	304/00	USB	(AB)
E11	6280	31-7	0820	Mon	432/00	USB	(AB)
E11a	13424	25-7	0645	Tue	514/39 Attention 86538 10919 08922 ... 49217 91273 34149 Attention, rpt msg, out	USB	(AB)
E11a	15800	7-7	0600	Fri	189/35 Attention 95004 91656 41560 ... 84921 11228 60995 Attention, rpt msg, out	USB	(AB)
E11a	6304	26-7	1205	Wed	463/37 Attention 28223 44855 40429 ... 48116 35671 56966 Attention, rpt msg, out	USB	(AB/MPJ)
E11a	15800	17-7	0640	Mon	942/20 Attention 61833 55718 94994 ... 03483 14718 35168 Attention, rpt msg, out	USB	(AB-GRC)
E11a	8565	13-7	0315	Thu	259/31 Attention ...	USB	(AB)
E11a	6304	12-7	0930	Wed	273/33 Attention 25693 30912 51502 ... 02809 96529 21985 Attention, rpt msg, out	USB	(AB)
E11a	7469	24-7	0450	Mon	411/40 Attention 88073 56038 27176 ... 11125 65696 43496 Attention, rpt msg, out	USB	(AB)
E11a	7984	12-7	1730	Wed	403/31 Attention ...	USB	(AB)
E11a	8530	21-7	2000	Fri	571/35 Attention 10714 60356 68797 ... 35738 42446 67320 Attention, rpt msg, out	USB	(AB/MPJ)
E11a	13427	24-7	0900	Mon	535/33 Attention 98300 81093 07640 ... 65950 67753 59803 Attention, rpt msg, out	USB	(AB)
E11a	7600	13-7	0530	Thu	641/33 Attention 49814 53682 89575 ... 47210 80070 28763 Attention, rpt msg, out	USB	(AB/ES)
E11a	4793	25-7	1605	Tue	236/32 86714 86141 33450 ... 47916 90275 40885	USB	(MPJ)
E11a	13427	26-7	0900	Wed	535/33 Attention 98300 81093 07640 ... 65950 67753 59803 Attention, rpt msg, out	USB	(AB)
E11a	8565	12-7	0315	Wed	259/31 Attention ...	USB	(ES)
E11a	11581	6-7	1925	Thu	553/39 Attention 52663 07072 23414 ... 16217 77753 77741 Attention, rpt msg, out	USB	(AB)
E11a	14575	20-7	1645	Thu	330/32 Attention 10898 83573 34923 ... 66483 19147 07679 Attention, rpt msg, out	USB	(AB/MPJ)
E11a	6304	13-7	0930	Thu	273/33 Attention 25693 30912 51502 ... 02809 96529 21985 Attention, rpt msg, out	USB	(AB/ES)
E11a	10429	11-7	0710	Tue	636/31 Attention 55931 47299 04042 ... 46582 90373 34256 Attention, rpt msg, out	USB	(AB-UKR/ES)
E11a	14410	3-7	1745	Mon	245/40 Attention 68943 44787 98374 ... 89010 35431 42097 Attention, rpt msg, out	USB	(AB/MPJ)

E11a	10356	13-7	1530	Thu	262/33 Attention 74583 44548 05984 ... 59792 96321 87535 Attention, rpt msg, out	USB	(AB/MPJ)
E11a	13911	4-7	0820	Tue	132/35 Attention 81639 62862 51179 ... 88035 33291 72453 Attention, rpt msg, out	USB	(AB-HNG)
E11a	15795	5-7	1625	Wed	977/32 Attention 01700 50764 01740 ... 02508 91215 90886 Attention, rpt msg, out	USB	(AB/MPJ)
E11a	9079	2-7	0805	Sun	313/32 Attention 40399 10169 03847 ... 48915 49569 56193 Attention, rpt msg, out	USB	(AB)
E11a	15800	19-7	0640	Wed	942/20 Attention 61833 55718 94994 ... 03483 14718 35168 Attention, rpt msg, out	USB	(AB)
E11a	14575	18-7	1645	Tue	330/32 Attention 10898 83573 34923 ... 66483 19147 07679 Attention, rpt msg, out	USB	(AB/MPJ/RL)
E11a	13424	27-7	0645	Thu	514/39 Attention 86538 10919 08922 ... 49217 91273 34149 Attention, rpt msg, out	USB	(AB)
E11a	9610	10-7	0745	Mon	262/33 Attention 74583 44548 05984 ... 59792 96321 87535 Attention, rpt msg, out	USB	(AB)
E11a	15800	10-7	0600	Mon	189/35 Attention 95004 91656 41560 ... 84921 11228 60995 Attention, rpt msg, out	USB	(AB-AUT)
E11a	9130	1-7	2005	Sat	360/40 Attention 32134 46669 69681 ... 73754 71242 12004 Attention, rpt msg, out	USB	(AB/ES/skx)
E11a	6480	15-7	0710	Sat	498/31 Attention 05837 71218 85607 ... 61186 49266 21994 Attention, rpt msg, out	USB	(AB)
E11a	7600	10-7	0530	Mon	641/33 Attention 49814 53682 89575 ... 47210 80070 28763 Attention, rpt msg, out	USB	(AB)
E11a	7984	15-7	1730	Sat	403/31 Attention 22984 65960 07900 ... 12601 07073 07525 Attention, rpt msg, out	USB	(AB/skx)
E11a	8088	27-7	1730	Thu	411/40 Attention 88073 56038 27176 ... 11125 65696 43496 Attention, rpt msg, out	USB	(AB/MPJ)
E11a	15825	18-7	1345	Tue	912/40 Attention 07892 58736 94266 ... 82033 86572 30086 Attention, rpt msg, out	USB	(AB/MPJ)
E11a	4783	30-7	1605	Sun	236/32 Attention 86714 86141 33450 ... 47916 90275 40885 Attention, rpt msg, out	USB	(AB/MPJ/FT)
E11a	13537	3-7	1225	Mon	525/34 Attention 73409 12154 89221 ... 88603 77001 54064 Attention, rpt msg, out	USB	(AB/MPJ)
E11a	15720	7-7	0745	Fri	340/32 Attention 01751 80675 57359 ... 93623 62759 25142 Attention, rpt msg, out	USB	(AB)
E11a	11581	27-7	1300	Thu	586/33 Attention 81416 93529 16412 ... 92452 16391 02189 Attention, rpt msg, out	USB	(AB)
E11a	13873	18-7	1045	Tue	571/35 Attention 10714 60356 68797 ... 35738 42446 67320 Attention, rpt msg, out	USB	(AB/MPJ)

E11a	14410	9-7	1745	Sun	245/40 Attention 68943 44787 98374 ... 89010 35431 42097 Attention, rpt msg, out	USB	(AB/MPJ/skx)
E11a	9130	2-7	2005	Sun	360/40 Attention 32134 46669 69681 ... 73754 71242 12004 Attention, rpt msg, out	USB	(AB)
E11a	14865	26-7	1705	Wed	391/31 Attention 63421 20124 92306 ... 30306 86097 26046 Attention, rpt msg, out	USB	(AB)
E11a	14940	9-7	1650	Sun	922/38 Attention ...	USB	(AB)
E11a	10429	14-7	0710	Fri	636/31 Attention 55931 47299 04042 ... 46582 90373 34256 Attention, rpt msg, out	USB	(AB)
E11a	15825	22-7	1345	Sat	912/40 Attention 07892 58736 94266 ... 82033 86572 30086 Attention, rpt msg, out	USB	(AB/MPJ)
E11a	15795	9-7	1625	Sun	977/32 Attention 01700 50764 01740 ... 02508 91215 90886 Attention, rpt msg, out	USB	(AB)
E11a	15720	5-7	0745	Wed	340/32 Attention 01751 80675 57359 ... 93623 62759 25142 Attention, rpt msg, out	USB	(AB/ES)
E11a	12397	7-7	1000	Fri	300/26 Attention 78744 70447 26060 ... 54087 86009 16080 Attention, rpt msg, out	USB	(AB/MPJ)
E11a	14865	29-7	1705	Sat	391/31 Attention 63421 20124 92306 ... 30306 86097 26046 Attention, rpt msg, out	USB	(AB/MPJ)
E11a	13537	7-7	1225	Fri	525/34 Attention 73409 12154 89221 ... 88603 77001 54064 Attention, rpt msg, out	USB	(AB/MPJ/ES)
E11a	6280	27-7	0820	Thu	434/31 Attention 20079 12133 75806 ... 92320 31620 96253 Attention, rpt msg, out	USB	(AB/FT)
E11a	11581	29-7	1300	Sat	586/33 Attention 81416 93529 16412 ... 92452 16391 02189 Attention, rpt msg, out	USB	(AB/MPJ)
E11a	12397	4-7	1000	Tue	300/26 Attention 78744 70447 26060 ... 54087 86009 16080 Attention, rpt msg, out	USB	(AB-AUT/MPJ)
E11a	6304	25-7	1205	Tue	463/37 Attention 28223 44855 40429 ... 48116 35671 56966 Attention, rpt msg, out	USB	(AB/MPJ/FT)
E11a	11581	4-7	1925	Tue	553/39 Attention 52663 07072 23414 ... 16217 77753 77741 Attention, rpt msg, out	USB	(AB/MPJ)
E11a	6280	24-7	0820	Mon	434/31 Attention 20079 12133 75806 ... 92320 31620 96253 Attention, rpt msg, out	USB	(AB)
E11a	6480	16-7	0710	Sun	498/31 Attention 05837 71218 85607 ... 61186 49266 21994 Attention, rpt msg, out	USB	(AB)
E17z	12850	20-7	0810	Thu	674 238 5 36973 37967 89762 42149 46198 238 5 00000	USB	(AB/MPJ)
E17z	16780	20-7	0800	Thu	674 238 5 36973 37967 89762 42149 46198 238 5 00000	USB	(AB/MPJ)
E17z	12850	27-7	0810	Thu	674 238 5 36973 37967 89762 42149 46198 238 5 00000	USB	(AB/FT)
E17z	12850	13-7	0810	Thu	674 901 5 09394 76911 75155 92918 97067 901 5 00000	USB	(AB)

E17z	16780	6-7	0800	Thu	674 901 5 09394 76911 75155 92918 97067 901 5 00000	USB	(AB/ES)
E17z	12850	6-7	0810	Thu	674 901 5 09394 76911 75155 92918 97067 901 5 00000	USB	(AB/dmhz/M PJ/ES)
E17z	16780	27-7	0800	Thu	674 238 5 36973 37967 89762 42149 46198 238 5 00000	USB	(AB)
E17z	16780	13-7	0800	Thu	674 901 5 09394 76911 75155 92918 97067 901 5 00000	USB	(AB)
E25	6140	13-7	0800	Thu	012 Message 9005 1831 4644 3059 5571 9837 7762 7296 Rebeat 9005 1831 4644 3059 5571 9837 7762 7296 End of message. End of transmission	AM	(dmhz)
E25	6140	14-7	0805	Fri	012 Message 9005 1831 4644 3059 5571 9837 7762 7296 Rebeat 9005 1831 4644 3059 5571 9837 7762 7296 End of message. End of transmission	AM	(AB- ISR/dmhz- ISR)
E25	6140	11-7	0930	Tue	333 Message 2080 7660 7687 0967 2214 2593 9353 7660 Rebeat 2080 7660 7687 0967 2214 2593 9353 7660 EOM EOT	AM	(dmhz- ISR/ES-ISR)
E25	6140	12-7	0745	Wed	250 Message 4844 8021 9020 3175 7656 9158 4858 5927 5220 6336 3487 9020 Rebeat 4844 8021 9020 3175 6 9158 4858 5927 5220 6336 3487 9020 EOM EOT	AM	(dmhz- ISR/ES-ISR)
E25	6140	7-7	0759	Fri	Windows sounds. 012 Message 8007 7121 4583 7452 3687 1727 8714 7345 Rebeat 8007 7121 4583 7452 3687 1727 8714 7345 EOM EOT	AM	(dmhz-ISR)
E25	6140	12-7	0930	Wed	333 Message 2080 7660 7687 0967 2214 2593 9353 7660 Rebeat 2080 7660 7687 0967 2214 2593 9353 7660 EOM EOT	AM	(dmhz- ISR/PW2- ISR/ES)
EGY	16067.7	31-7	1332	Mon	Egyptian diplo i.p. +?YKZK KDYFASH JQJLOKH 409 KDQJLOH 44444 US KDPCF 77777 ... HPDJ YKZK US KJKG KDDR YKS YKS U YKS YKS	SITOR-A 100/170	(AB)
EGY	14621.7	9-7	2040	Sun	Egyptian diplo. End of traffic: 12345 ABCDEFGH +?9?? KQJKDS MKDKDXKMF) (KNGSG	SITOR-A 100/170	(SP1)
EGY	14923.7	1-7	1100	Sat	MFA Cairo wkg XBVM Egyptian embas- sy Bonn. HK+? 99 XBVM XBVM XBVM YGK HUXD HJKJ KDUJZ XBVM XBVM XB ZWF YKS YK	SITOR-A 100/170	(AB)
EGY	16067.7	19-7	1901	Wed	71: Egyptian Military Intelligence, Cairo msgs to Egyptian embassy Washington	SITOR-A 100/170	(RL)
EGY	16023.7	20-7	0752	Thu	Egyptian diplo ending with UII HJKJ SKV KDS ZDD YKS YKS +?	SITOR-A 100/170	(AB)
F01	16147	22-7	1810	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/HFD)
F01	12214	29-7	1830	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/Danix)
F01	16147	8-7	1810	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/Danix)
F01	16147	29-7	1810	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/Danix)
F01	14389	8-7	1820	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/Danix)
F01	12214	15-7	1830	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB)

F01	14389	15-7	1820	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB)
F01	16147	15-7	1810	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB)
F01	16147	1-7	1810	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/Danix)
F01	14389	29-7	1820	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/Danix)
F01	18562	28-7	2230	Fri	Russian diplo/intel. 11177 00116 68419 27030 01239	FSK 200/500	(Danix-USA)
F01	16218	28-7	2240	Fri	Russian diplo/intel. 11177 00116 68419 27030 01239	FSK 200/500	(Danix-USA)
F01	12214	1-7	1830	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/Danix)
F01	14389	22-7	1820	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/HFD)
F01	14389	1-7	1820	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/Danix)
F01	12214	8-7	1830	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/Danix)
F01	14829	5-7	1840	Wed	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/Danix/ MPJ)
F01	12214	22-7	1830	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/HFD)
F01	10932	5-7	1900	Wed	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/Danix/ MPJ)
F01	12214	5-7	1850	Wed	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/Danix/ MPJ)
F06	11611	24-7	1830	Mon	Russian diplo/intel. Header: 11100 00000 78452 23025 00629	FSK 200/1000	(AB/Danix/ MPJ)
F06	14384	22-7	0910	Sat	Russian diplo/intel. Header: 11166 70004 64283 07096 01829	FSK 200/1000	(AB/Danix)
F06	15964	2-7	1100	Sun	Russian diplo/intel. Header: 11166 50046 97142 16001 00969	FSK 200/1000	(AB/Danix/ MPJ)
F06	13549	2-7	1110	Sun	Russian diplo/intel. Header: 11166 50046 97142 16001 00969	FSK 200/1000	(AB/Danix/ MPJ)
F06	11524	2-7	1120	Sun	Russian diplo/intel. Header: 11166 50046 97142 16001 00969	FSK 200/1000	(AB/Danix/ MPJ)
F06	12173	22-7	0920	Sat	Russian diplo/intel. Header: 11166 70004 64283 07096 01829	FSK 200/1000	(AB/Danix)
F06	19466	2-7	1530	Sun	Russian diplo/intel. 11166 10053 35791 02001 00049 00000 00000 00000 00000	FSK 200/1000	(Danix)
F06	16189	2-7	1540	Sun	Russian diplo/intel. 11166 10053 35791 02001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix)
F06	16089	22-7	0900	Sat	Russian diplo/intel. Header: 11166 70004 64283 07096 01829	FSK 200/1000	(AB/Danix)
F06	15964	22-7	1100	Sat	Russian diplo/intel. Header: 11166 50046 18374 21004 02589	FSK 200/1000	(AB/Danix/ MPJ)
F06	9425	26-7	1840	Wed	Russian diplo/intel. Header: 11100 00000 78456 25026 00649	FSK 200/1000	(AB/Danix)
F06	9425	24-7	1840	Mon	Russian diplo/intel. Header: 11100 00000 78452 23025 00629	FSK 200/1000	(AB/Danix)
F06	12173	9-7	0920	Sun	Russian diplo/intel. Header: 11166 70004 64283 07096 01829	FSK 200/1000	(AB/Danix/ MPJ)
F06	7992	4-7	1810	Tue	Russian diplo/intel. 11166 00000 02678 03012 00049 11111 00011 12002 00000 and 11100 00000 53947 03013 00669	FSK 200/1000	(Danix)

F06	14384	9-7	0910	Sun	Russian diplo/intel. Header: 11166 70004 64283 07096 01829	FSK 200/1000	(AB/Danix/MPJ)
F06	13994	19-7	0800	Wed	Russian diplo/intel. 11166 70048 24586 19059 00049 00000 00000 00000	FSK 200/1000	(AB)
F06	12058	19-7	0810	Wed	Russian diplo/intel. 11166 70048 24586 19059 00049 00000 00000 00000	FSK 200/1000	(AB)
F06	15733	25-7	1500	Tue	Russian diplo/intel. 11166 00052 26497 25083 00049 00000 00000 00000	FSK 200/1000	(AB/Danix)
F06	11611	26-7	1830	Wed	Russian diplo/intel. Header: 11100 00000 78456 25026 00649	FSK 200/1000	(AB/Danix/MPJ)
F06	5913	26-7	1820	Wed	Russian diplo/intel. Header: 11100 00000 78456 25026 00649	FSK 200/1000	(AB/Danix)
F06	13576	2-7	1550	Sun	Russian diplo/intel. 11166 10053 35791 02001 00049 00000 00000 00000	FSK 200/1000	(AB/Danix)
F06	9486	22-7	0820	Sat	Russian diplo/intel. Header: 11166 70147 56921 21062 01369	FSK 200/1000	(AB/Danix)
F06	15707	19-7	0610	Wed	Russian diplo/intel. 11166 40122 45236 19078 00049 00000 00000 00000	FSK 200/1000	(AB-J/Danix-J)
F06	17436	1-7	2100	Sat	Russian diplo/intel. 11166 40133 02574 01032 00049 00000 00000 00000	FSK 200/1000	(AB/Danix)
F06	15789	1-7	2110	Sat	Russian diplo/intel. 11166 40133 02574 01032 00049 00000 00000 00000	FSK 200/1000	(AB/Danix)
F06	13473	1-7	2120	Sat	Russian diplo/intel. 11166 40133 02574 01032 00049 00000 00000 00000	FSK 200/1000	(AB/Danix)
F06	9425	16-7	1840	Sun	Russian diplo/intel. Header: 11100 00000 73982 15021 00639	FSK 200/1000	(AB/Danix/MPJ)
F06	6957	16-7	1850	Sun	Russian diplo/intel. Header: 11100 00000 73982 15021 00639	FSK 200/1000	(AB/Danix)
F06	11060	27-7	0820	Thu	Russian diplo/intel. Header: 11166 00052 29135 25017 01789	FSK 200/1000	(AB/Danix)
F06	13428	27-7	0810	Thu	Russian diplo/intel. Header: 11166 00052 29135 25017 01789	FSK 200/1000	(AB/Danix/FT)
F06	17419	27-7	0600	Thu	Russian diplo/intel. Header: 11166 40122 17548 22030 03799	FSK 200/1000	(AB-J)
F06	15795	27-7	0800	Thu	Russian diplo/intel. Header: 11166 00052 29135 25017 01789	FSK 200/1000	(AB/Danix)
F06	17419	19-7	0600	Wed	Russian diplo/intel. 11166 40122 45236 19078 00049 00000 00000 00000	FSK 200/1000	(AB-J/Danix-J)
F06	13446	12-7	0620	Wed	Russian diplo/intel. Headers: 11166 40122 85712 08028 03029 and 11166 40122 58741 08029 02559	FSK 200/1000	(AB-J)
F06	15707	12-7	0610	Wed	Russian diplo/intel. Headers: 11166 40122 85712 08028 03029 and 11166 40122 58741 08029 02559	FSK 200/1000	(AB-J)
F06	9425	4-7	1840	Tue	Russian diplo/intel. 11166 00000 02678 03012 00049 11111 00011 12002 00000 and 11100 00000 53947 03013 00669	FSK 200/1000	(Danix)
F06	11611	4-7	1830	Tue	Russian diplo/intel. 11166 00000 02678 03012 00049 11111 00011 12002 00000 and 11100 00000 53947 03013	FSK 200/1000	(Danix)

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F06	13446	27-7	0620	Thu	Russian diplo/intel. Header: 11166 40122 17548 22030 03799	FSK 200/1000	(AB-J)
F06	17419	12-7	0600	Wed	Russian diplo/intel. Headers: 11166 40122 85712 08028 03029 and 11166 40122 58741 08029 02559	FSK 200/1000	(AB-J)
F06	5913	4-7	1820	Tue	Russian diplo/intel. 11166 00000 02678 03012 00049 11111 00011 12002 00000 and 11100 00000 53947 03013 00669	FSK 200/1000	(Danix)
F06	6957	26-7	1850	Wed	Russian diplo/intel. Header: 11100 00000 78456 25026 00649	FSK 200/1000	(AB/Danix)
F06	15707	27-7	0610	Thu	Russian diplo/intel. Header: 11166 40122 17548 22030 03799	FSK 200/1000	(AB-J)
F06	13446	19-7	0620	Wed	Russian diplo/intel. 11166 40122 45236 19078 00049 00000 00000 00000 00000	FSK 200/1000	(AB-J/Danix- J)
F06	13576	23-7	1550	Sun	Russian diplo/intel. 11166 10053 13579 23062 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix/ MPJ)
F06	12167	10-7	1730	Mon	Russian diplo/intel. Header: 11100 00000 31579 09058 00529	FSK 200/1000	(AB/Danix/ MPJ)
F06	11154	25-7	1520	Tue	Russian diplo/intel. 11166 00052 26497 25083 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix)
F06	16089	9-7	0900	Sun	Russian diplo/intel. Header: 11166 70004 64283 07096 01829	FSK 200/1000	(AB/Danix/ MPJ)
F06	9425	8-7	1840	Sat	Russian diplo/intel. Headers: 11166 00000 14570 06015 00049 and 11100 00000 46821 07016 00669	FSK 200/1000	(AB/Danix)
F06	15733	4-7	1500	Tue	Russian diplo/intel. 11166 00052 54086 04062 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix)
F06	9486	9-7	0820	Sun	Russian diplo/intel. Header: 11166 70147 05196 07060 01509	FSK 200/1000	(AB/Danix)
F06	12058	5-7	0810	Wed	Russian diplo/intel. 11166 70048 46217 05039 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix)
F06	10174	5-7	0820	Wed	Russian diplo/intel. 11166 70048 46217 05039 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix)
F06	13588	11-7	1710	Tue	Russian diplo/intel. 11166 10053 35791 11001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	13376	25-7	1510	Tue	Russian diplo/intel. 11166 00052 26497 25083 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix)
F06	7526	10-7	1750	Mon	Russian diplo/intel. Header: 11100 00000 31579 09058 00529	FSK 200/1000	(AB/Danix/ MPJ)
F06	9067	26-7	1710	Wed	Russian diplo/intel. Header: 11100 00000 52348 25067 00639	FSK 200/1000	(AB/Danix)
F06	16189	23-7	1540	Sun	Russian diplo/intel. 11166 10053 13579 23062 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix/ MPJ)
F06	19466	23-7	1530	Sun	Russian diplo/intel. 11166 10053 13579 23062 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS- Danix/MPJ)
F06	6957	8-7	1850	Sat	Russian diplo/intel. Headers: 11166 00000 14570 06015 00049 and 11100 00000 46821 07016 00669	FSK 200/1000	(AB/Danix)

F06	11524	23-7	1120	Sun	Russian diplo/intel. Header: 11166 50046 18374 21004 02589	FSK 200/1000	(AB/Danix/ MPJ)
F06	13549	23-7	1110	Sun	Russian diplo/intel. Header: 11166 50046 18374 21004 02589	FSK 200/1000	(AB/Danix/ MPJ)
F06	10687	10-7	1800	Mon	Russian diplo/intel. Header: 11100 00000 75319 09017 00639	FSK 200/1000	(AB/Danix/ MPJ)
F06	12173	23-7	0920	Sun	Russian diplo/intel. Header: 11166 70004 64283 07096 01829	FSK 200/1000	(AB/Danix)
F06	11122	22-7	1650	Sat	Russian diplo/intel. Test: 4646464646 4646464646	FSK 200/1000	(AB/Danix)
F06	11122	28-7	1700	Fri	Russian diplo/intel. Header: 11100 00000 58937 27068 00539	FSK 200/1000	(AB/Danix/ MPJ)
F06	9937	10-7	1740	Mon	Russian diplo/intel. Header: 11100 00000 31579 09058 00529	FSK 200/1000	(AB/Danix/ MPJ)
F06	6957	24-7	1850	Mon	Russian diplo/intel. Header: 11100 00000 78452 23025 00629	FSK 200/1000	(AB/Danix)
F06	11634	22-7	0810	Sat	Russian diplo/intel. Header: 11166 70147 56921 21062 01369	FSK 200/1000	(AB/Danix)
F06	9126	3-7	0410	Mon	Russian diplo/intel. 11166 70059 17935 03019 00049 00000 00000 00000 00000	FSK 200/1000	(Danix)
F06	8137	3-7	0420	Mon	Russian diplo/intel. 11166 70059 17935 03019 00049 00000 00000 00000 00000	FSK 200/1000	(Danix)
F06	7992	26-7	1810	Wed	Russian diplo/intel. Header: 11100 00000 78456 25026 00649	FSK 200/1000	(AB/Danix)
F06	13549	22-7	1110	Sat	Russian diplo/intel. Header: 11166 50046 18374 21004 02589	FSK 200/1000	(AB/Danix/ MPJ)
F06	10687	26-7	1800	Wed	Russian diplo/intel. Header: 11100 00000 78456 25026 00649	FSK 200/1000	(AB/Danix/ MPJ)
F06	11049	17-7	0400	Mon	Russian diplo/intel. 11166 70059 15963 17001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix)
F06	9126	17-7	0410	Mon	Russian diplo/intel. 11166 70059 15963 17001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix)
F06	11524	22-7	1120	Sat	Russian diplo/intel. Header: 11166 50046 18374 21004 02589	FSK 200/1000	(AB/Danix/ MPJ)
F06	11122	26-7	1700	Wed	Russian diplo/intel. Header: 11100 00000 52348 25067 00639	FSK 200/1000	(AB/Danix/ MPJ)
F06	10174	19-7	0820	Wed	Russian diplo/intel. 11166 70048 24586 19059 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	13994	5-7	0800	Wed	Russian diplo/intel. 11166 70048 46217 05039 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix)
F06	11122	10-7	1700	Mon	Russian diplo/intel. Header: 11100 00000 31579 09058 00529	FSK 200/1000	(AB/Danix)
F06	9067	10-7	1710	Mon	Russian diplo/intel. Header: 11100 00000 31579 09058 00529	FSK 200/1000	(AB/Danix)
F06	6791	10-7	1720	Mon	Russian diplo/intel. Header: 11100 00000 31579 09058 00529	FSK 200/1000	(AB/Danix)
F06	5913	8-7	1820	Sat	Russian diplo/intel. Headers: 11166 00000 14570 06015 00049 and 11100 00000 46821 07016 00669	FSK 200/1000	(AB/Danix)
F06	7526	26-7	1750	Wed	Russian diplo/intel. Header: 11100 00000 52348 25067 00639	FSK 200/1000	(AB/Danix)
F06	9937	26-7	1740	Wed	Russian diplo/intel. Header: 11100 00000 52348 25067 00639	FSK 200/1000	(AB/Danix)
F06	12167	26-7	1730	Wed	Russian diplo/intel. Header: 11100	FSK 200/1000	(AB/Danix/

					00000 52348 25067 00639		MPJ)
F06	6791	26-7	1720	Wed	Russian diplo/intel. Header: 11100 00000 52348 25067 00639	FSK 200/1000	(AB/Danix)
F06	11611	8-7	1830	Sat	Russian diplo/intel. Headers: 11166 00000 14570 06015 00049 and 11100 00000 46821 07016 00669	FSK 200/1000	(AB/Danix)
F06	11049	3-7	0400	Mon	Russian diplo/intel. 11166 70059 17935 03019 00049 00000 00000 00000 00000	FSK 200/1000	(Danix)
F06	8137	17-7	0420	Mon	Russian diplo/intel. 11166 70059 15963 17001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix)
F06	11122	18-7	1700	Tue	Russian diplo/intel. Header: 11166 00000 36987 17063 00259	FSK 200/1000	(AB/Danix/ MPJ)
F06	13588	4-7	1710	Tue	Russian diplo/intel. 11166 10053 56248 04001 00049 00000 00000 00000 00000	FSK 200/1000	(Danix)
F06	13549	29-7	1110	Sat	Russian diplo/intel. Header: 11166 50046 18374 21004 02589	FSK 200/1000	(AB/Danix/ MPJ)
F06	9937	18-7	1740	Tue	Russian diplo/intel. Header: 11166 00000 36987 17063 00259	FSK 200/1000	(AB/Danix)
F06	13473	15-7	2120	Sat	Russian diplo/intel. 11166 40133 13579 15001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	15789	15-7	2110	Sat	Russian diplo/intel. 11166 40133 13579 15001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	17436	15-7	2100	Sat	Russian diplo/intel. 11166 40133 13579 15001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/RL)
F06	12167	16-7	1730	Sun	Russian diplo/intel. Header: 11100 00000 67293 15062 00529	FSK 200/1000	(AB/Danix)
F06	12167	18-7	1730	Tue	Russian diplo/intel. Header: 11166 00000 36987 17063 00259	FSK 200/1000	(AB/Danix)
F06	11611	16-7	1830	Sun	Russian diplo/intel. Header: 11100 00000 73982 15021 00639	FSK 200/1000	(AB/Danix/ MPJ)
F06	9067	18-7	1710	Tue	Russian diplo/intel. Header: 11166 00000 36987 17063 00259	FSK 200/1000	(AB/Danix)
F06	11524	29-7	1120	Sat	Russian diplo/intel. Header: 11166 50046 18374 21004 02589	FSK 200/1000	(AB/Danix/ MPJ)
F06	13588	18-7	1710	Tue	Russian diplo/intel. 11166 10053 13579 18001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix)
F06	15964	29-7	1100	Sat	Russian diplo/intel. Header: 11166 50046 18374 21004 02589	FSK 200/1000	(AB/Danix/ MPJ)
F06	9937	16-7	1740	Sun	Russian diplo/intel. Header: 11100 00000 67293 15062 00529	FSK 200/1000	(AB/Danix/ MPJ)
F06	7526	16-7	1750	Sun	Russian diplo/intel. Header: 11100 00000 67293 15062 00529	FSK 200/1000	(AB/Danix)
F06	11122	24-7	1700	Mon	Russian diplo/intel. Header: 11100 00000 42567 23066 00529	FSK 200/1000	(AB/Danix/ MPJ)
F06	11524	15-7	1120	Sat	Russian diplo/intel. Header: 11166 50046 45173 14003 01349	FSK 200/1000	(AB/MPJ)
F06	13549	15-7	1110	Sat	Russian diplo/intel. Header: 11166 50046 45173 14003 01349	FSK 200/1000	(AB/MPJ)
F06	15964	15-7	1100	Sat	Russian diplo/intel. Header: 11166 50046 45173 14003 01349	FSK 200/1000	(AB/MPJ)
F06	16348	18-7	1700	Tue	Russian diplo/intel. 11166 10053 13579 18001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix/R L)

F06	6791	18-7	1720	Tue	Russian diplo/intel. Header: 11166 00000 36987 17063 00259	FSK 200/1000	(AB/Danix)
F06	9486	16-7	0720	Sun	Russian diplo/intel. Headers: 11166 70147 05196 07060 01509 and 11166 70147 91753 12061 00569	FSK 200/1000	(Danix)
F06	13576	16-7	1550	Sun	Russian diplo/intel. 11166 10053 56248 16001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix)
F06	16189	16-7	1540	Sun	Russian diplo/intel. 11166 10053 56248 16001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix)
F06	19466	16-7	1530	Sun	Russian diplo/intel. 11166 10053 56248 16001 00049 00000 00000 00000 00000	FSK 200/1000	(AB- RUS/Danix)
F06	6957	18-7	1850	Tue	Russian diplo/intel. Header: 11166 00000 75931 17022 00269	FSK 200/1000	(AB/Danix/ MPJ)
F06	11524	16-7	1120	Sun	Russian diplo/intel. Header: 11166 50046 45173 14003 01349	FSK 200/1000	(AB/MPJ)
F06	13549	16-7	1110	Sun	Russian diplo/intel. Header: 11166 50046 45173 14003 01349	FSK 200/1000	(AB/MPJ)
F06	15964	16-7	1100	Sun	Russian diplo/intel. Header: 11166 50046 45173 14003 01349	FSK 200/1000	(AB/MPJ)
F06	9425	18-7	1840	Tue	Russian diplo/intel. Header: 11166 00000 75931 17022 00269	FSK 200/1000	(AB/Danix)
F06	11611	18-7	1830	Tue	Russian diplo/intel. Header: 11166 00000 75931 17022 00269	FSK 200/1000	(AB/Danix/ MPJ)
F06	7526	18-7	1750	Tue	Russian diplo/intel. Header: 11166 00000 36987 17063 00259	FSK 200/1000	(AB/Danix/ MPJ)
F06	19535	4-7	1650	Tue	Russian diplo/intel. 11166 10053 56248 04001 00049 00000 00000 00000 00000	FSK 200/1000	(Danix)
F06	16348	4-7	1700	Tue	Russian diplo/intel. 11166 10053 56248 04001 00049 00000 00000 00000 00000	FSK 200/1000	(Danix)
F06	11634	16-7	0710	Sun	Russian diplo/intel. Headers: 11166 70147 05196 07060 01509 and 11166 70147 91753 12061 00569	FSK 200/1000	(Danix)
F06	13468	16-7	0700	Sun	Russian diplo/intel. Headers: 11166 70147 05196 07060 01509 and 11166 70147 91753 12061 00569	FSK 200/1000	(Danix)
F06	11122	16-7	1700	Sun	Russian diplo/intel. Header: 11100 00000 67293 15062 00529	FSK 200/1000	(AB/Danix/ MPJ)
F06	9067	16-7	1710	Sun	Russian diplo/intel. Header: 11100 00000 67293 15062 00529	FSK 200/1000	(AB/Danix)
F06	6791	16-7	1720	Sun	Russian diplo/intel. Header: 11100 00000 67293 15062 00529	FSK 200/1000	(AB/Danix)
F06	5913	18-7	1820	Tue	Russian diplo/intel. Header: 11166 00000 75931 17022 00269	FSK 200/1000	(AB/Danix)
F06	7992	18-7	1810	Tue	Russian diplo/intel. Header: 11166 00000 75931 17022 00269	FSK 200/1000	(AB/Danix/ MPJ)
F06	10687	18-7	1800	Tue	Russian diplo/intel. Header: 11166 00000 75931 17022 00269	FSK 200/1000	(AB/Danix/ MPJ)
F06	19535	18-7	1650	Tue	Russian diplo/intel. 11166 10053 13579 18001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix/ MPJ)
F06	6957	4-7	1850	Tue	Russian diplo/intel. 11166 00000 02678 03012 00049 11111 00011 12002 00000 and 11100 00000 53947 03013 00669	FSK 200/1000	(Danix)
F06	9937	14-7	1740	Fri	Russian diplo/intel. Headers: 11166	FSK 200/1000	(AB/MPJ)

					00000 81935 13060 00049 and 11100 00000 15986 13061 00529		
F06	9067	24-7	1710	Mon	Russian diplo/intel. Header: 11100 00000 42567 23066 00529	FSK 200/1000	(AB/Danix/ MPJ)
F06	11611	14-7	1830	Fri	Russian diplo/intel. Headers: 11166 00000 73519 13019 00049 and 11100 00000 14287 13020 00659	FSK 200/1000	(AB/MPJ)
F06	5913	14-7	1820	Fri	Russian diplo/intel. Headers: 11166 00000 73519 13019 00049 and 11100 00000 14287 13020 00659	FSK 200/1000	(AB/MPJ)
F06	7992	14-7	1810	Fri	Russian diplo/intel. Headers: 11166 00000 73519 13019 00049 and 11100 00000 14287 13020 00659	FSK 200/1000	(AB/MPJ)
F06	10687	14-7	1800	Fri	Russian diplo/intel. Headers: 11166 00000 73519 13019 00049 and 11100 00000 14287 13020 00659	FSK 200/1000	(AB/MPJ)
F06	7526	14-7	1750	Fri	Russian diplo/intel. Headers: 11166 00000 81935 13060 00049 and 11100 00000 15986 13061 00529	FSK 200/1000	(AB/MPJ)
F06	15964	1-7	1100	Sat	Russian diplo/intel. Header: 11166 50046 97142 16001 00969	FSK 200/1000	(AB/Danix)
F06	7992	16-7	1810	Sun	Russian diplo/intel. Header: 11100 00000 73982 15021 00639	FSK 200/1000	(AB/Danix)
F06	5913	16-7	1820	Sun	Russian diplo/intel. Header: 11100 00000 73982 15021 00639	FSK 200/1000	(AB/Danix)
F06	6957	14-7	1850	Fri	Russian diplo/intel. Headers: 11166 00000 73519 13019 00049 and 11100 00000 14287 13020 00659	FSK 200/1000	(AB/MPJ)
F06	11524	9-7	1120	Sun	Russian diplo/intel. Header: 11166 50046 37294 07002 04229	FSK 200/1000	(AB/Danix/ MPJ)
F06	10687	16-7	1800	Sun	Russian diplo/intel. Header: 11100 00000 73982 15021 00639	FSK 200/1000	(AB/Danix/ MPJ)
F06	12167	14-7	1730	Fri	Russian diplo/intel. Headers: 11166 00000 81935 13060 00049 and 11100 00000 15986 13061 00529	FSK 200/1000	(AB/MPJ)
F06	6791	14-7	1720	Fri	Russian diplo/intel. Headers: 11166 00000 81935 13060 00049 and 11100 00000 15986 13061 00529	FSK 200/1000	(AB/MPJ)
F06	9067	14-7	1710	Fri	Russian diplo/intel. Headers: 11166 00000 81935 13060 00049 and 11100 00000 15986 13061 00529	FSK 200/1000	(AB/MPJ)
F06	13549	9-7	1110	Sun	Russian diplo/intel. Header: 11166 50046 37294 07002 04229	FSK 200/1000	(AB/Danix/ MPJ)
F06	15964	9-7	1100	Sun	Russian diplo/intel. Header: 11166 50046 37294 07002 04229	FSK 200/1000	(AB/Danix/ MPJ)
F06	13468	22-7	0800	Sat	Russian diplo/intel. Header: 11166 70147 56921 21062 01369	FSK 200/1000	(AB/Danix)
F06	13576	30-7	1550	Sun	Russian diplo/intel. 11166 10053 13579 30001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix/ MPJ/FT)
F06	7992	10-7	1810	Mon	Russian diplo/intel. Header: 11100 00000 75319 09017 00639	FSK 200/1000	(AB/Danix/ MPJ)
F06	11122	14-7	1700	Fri	Russian diplo/intel. Headers: 11166 00000 81935 13060 00049 and 11100 00000 15986 13061 00529	FSK 200/1000	(AB/MPJ)
F06	19466	9-7	1530	Sun	Russian diplo/intel. 11166 10053 15328 09001 00049 00000 00000 00000 00000	FSK 200/1000	(AB- RUS/Danix)
F06	16189	9-7	1540	Sun	Russian diplo/intel. 11166 10053 15328 09001 00049 00000 00000 00000	FSK 200/1000	(AB/Danix/ MPJ)

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F06	14384	23-7	0910	Sun	Russian diplo/intel. Header: 11166 70004 64283 07096 01829	FSK 200/1000	(AB/Danix)
F06	11154	18-7	1520	Tue	Russian diplo/intel. 11166 00052 82674 18026 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix/ MPJ)
F06	13376	18-7	1510	Tue	Russian diplo/intel. 11166 00052 82674 18026 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix/ MPJ)
F06	15733	18-7	1500	Tue	Russian diplo/intel. 11166 00052 82674 18026 00049 00000 00000 00000 00000	FSK 200/1000	(AB/RL)
F06	13576	9-7	1550	Sun	Russian diplo/intel. 11166 10053 15328 09001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix/ MPJ)
F06	17419	5-7	0600	Wed	Russian diplo/intel. Header: 11166 40122 25098 01027 03359	FSK 200/1000	(AB-J)
F06	9925	27-7	1350	Thu	Russian diplo/intel. 11166 80214 62347 27031 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix)
F06	11643	27-7	1340	Thu	Russian diplo/intel. 11166 80214 62347 27031 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix)
F06	13814	27-7	1330	Thu	Russian diplo/intel. 11166 80214 62347 27031 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix/ MPJ)
F06	9425	14-7	1840	Fri	Russian diplo/intel. Headers: 11166 00000 73519 13019 00049 and 11100 00000 14287 13020 00659	FSK 200/1000	(AB/MPJ)
F06	9937	24-7	1740	Mon	Russian diplo/intel. Header: 11100 00000 42567 23066 00529	FSK 200/1000	(AB/Danix/ MPJ)
F06	6791	24-7	1720	Mon	Russian diplo/intel. Header: 11100 00000 42567 23066 00529	FSK 200/1000	(AB/Danix/ MPJ)
F06	7526	24-7	1750	Mon	Russian diplo/intel. Header: 11100 00000 42567 23066 00529	FSK 200/1000	(AB/Danix/ MPJ)
F06	15707	5-7	0610	Wed	Russian diplo/intel. Header: 11166 40122 25098 01027 03359	FSK 200/1000	(AB-J)
F06	13446	5-7	0620	Wed	Russian diplo/intel. Header: 11166 40122 25098 01027 03359	FSK 200/1000	(AB-J)
F06	11524	1-7	1120	Sat	Russian diplo/intel. Header: 11166 50046 97142 16001 00969	FSK 200/1000	(AB/Danix)
F06	10687	24-7	1800	Mon	Russian diplo/intel. Header: 11100 00000 78452 23025 00629	FSK 200/1000	(AB/Danix/ MPJ)
F06	7992	24-7	1810	Mon	Russian diplo/intel. Header: 11100 00000 78452 23025 00629	FSK 200/1000	(AB/Danix)
F06	5913	24-7	1820	Mon	Russian diplo/intel. Header: 11100 00000 78452 23025 00629	FSK 200/1000	(AB/Danix/ MPJ)
F06	9067	4-7	1710	Tue	Russian diplo/intel. 11166 00000 23715 03053 00049 11111 00012 53002 00000 and 11100 00000 19458 03054 00549	FSK 200/1000	(AB/Danix)
F06	13549	1-7	1110	Sat	Russian diplo/intel. Header: 11166 50046 97142 16001 00969	FSK 200/1000	(AB/Danix)
F06	12167	24-7	1730	Mon	Russian diplo/intel. Header: 11100 00000 42567 23066 00529	FSK 200/1000	(AB/Danix/ MPJ)
F06	13994	12-7	0800	Wed	Russian diplo/intel. 11166 70048 12860 12042 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	6957	20-7	1850	Thu	Russian diplo/intel. Header: 11100 00000 41982 19023 00639	FSK 200/1000	(AB/Danix/ MPJ)

F06	11122	8-7	1700	Sat	Russian diplo/intel. Headers: 11166 00000 27534 06056 00049 and 11100 00000 75319 07057 00579	FSK 200/1000	(Danix)
F06	9067	8-7	1710	Sat	Russian diplo/intel. Headers: 11166 00000 27534 06056 00049 and 11100 00000 75319 07057 00579	FSK 200/1000	(Danix)
F06	6791	8-7	1720	Sat	Russian diplo/intel. Headers: 11166 00000 27534 06056 00049 and 11100 00000 75319 07057 00579	FSK 200/1000	(Danix)
F06	12167	8-7	1730	Sat	Russian diplo/intel. Headers: 11166 00000 27534 06056 00049 and 11100 00000 75319 07057 00579	FSK 200/1000	(AB/Danix)
F06	9973	8-7	1740	Sat	Russian diplo/intel. Headers: 11166 00000 27534 06056 00049 and 11100 00000 75319 07057 00579	FSK 200/1000	(AB/Danix)
F06	7526	8-7	1750	Sat	Russian diplo/intel. Headers: 11166 00000 27534 06056 00049 and 11100 00000 75319 07057 00579	FSK 200/1000	(AB/Danix)
F06	10687	8-7	1800	Sat	Russian diplo/intel. Headers: 11166 00000 14570 06015 00049 and 11100 00000 46821 07016 00669	FSK 200/1000	(AB/Danix)
F06	13428	26-7	0810	Wed	Russian diplo/intel. Header: 11166 00052 29135 25017 01789	FSK 200/1000	(AB/Danix)
F06	9425	20-7	1840	Thu	Russian diplo/intel. Header: 11100 00000 41982 19023 00639	FSK 200/1000	(AB/Danix)
F06	14649	5-7	1240	Wed	Russian diplo/intel. 11166 90073 35791 05001 00049 0000 00000 00000 00000	FSK 200/1000	(AB/Danix/ MPJ)
F06	12058	12-7	0810	Wed	Russian diplo/intel. 11166 70048 12860 12042 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	10174	12-7	0820	Wed	Russian diplo/intel. 11166 70048 12860 12042 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	15795	12-7	0800	Wed	Russian diplo/intel. Header: 11166 00052 83724 11016 01769	FSK 200/1000	(AB)
F06	13428	12-7	0810	Wed	Russian diplo/intel. Header: 11166 00052 83724 11016 01769	FSK 200/1000	(AB)
F06	11060	12-7	0820	Wed	Russian diplo/intel. Header: 11166 00052 83724 11016 01769	FSK 200/1000	(AB)
F06	11611	20-7	1830	Thu	Russian diplo/intel. Header: 11100 00000 41982 19023 00639	FSK 200/1000	(AB/Danix)
F06	9425	28-7	1840	Fri	Russian diplo/intel. Header: 11100 00000 79135 27027 00639	FSK 200/1000	(AB/Danix/ MPJ)
F06	6957	28-7	1850	Fri	Russian diplo/intel. Header: 11100 00000 79135 27027 00639	FSK 200/1000	(AB/Danix/ MPJ)
F06	19466	30-7	1530	Sun	Russian diplo/intel. 11166 10053 13579 30001 00049 00000 00000 00000 00000	FSK 200/1000	(AB- RUS/Danix/ MPJ/FT)
F06	7992	8-7	1810	Sat	Russian diplo/intel. Headers: 11166 00000 14570 06015 00049 and 11100 00000 46821 07016 00669	FSK 200/1000	(AB/Danix)
F06	12173	8-7	0920	Sat	Russian diplo/intel. Header: 11166 70004 64283 07096 01829	FSK 200/1000	(AB/Danix)
F06	16244	19-7	1230	Wed	Russian diplo/intel. 11166 90073 15963 19001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix)
F06	15795	26-7	0800	Wed	Russian diplo/intel. Header: 11166 00052 29135 25017 01789	FSK 200/1000	(AB/Danix)
F06	10174	26-7	0820	Wed	Russian diplo/intel. 11166 70048 12345 26026 00049 00000 00000 00000	FSK 200/1000	(AB/Danix)

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F06	17419	6-7	0600	Thu	Russian diplo/intel. Header: 11166 40122 25098 01027 03359	FSK 200/1000	(AB- NZL/Danix)
F06	11634	8-7	0810	Sat	Russian diplo/intel. Header: 11166 70147 05196 07060 01509	FSK 200/1000	(AB/Danix)
F06	15964	23-7	1100	Sun	Russian diplo/intel. Header: 11166 50046 18374 21004 02589	FSK 200/1000	(AB/Danix/ MPJ)
F06	7526	22-7	1750	Sat	Russian diplo/intel. Header: 11100 00000 62389 21065 00529	FSK 200/1000	(AB/Danix)
F06	9937	22-7	1740	Sat	Russian diplo/intel. Header: 11100 00000 62389 21065 00529	FSK 200/1000	(AB/Danix)
F06	12167	22-7	1730	Sat	Russian diplo/intel. Header: 11100 00000 62389 21065 00529	FSK 200/1000	(AB/Danix)
F06	9937	4-7	1740	Tue	Russian diplo/intel. 11166 00000 23715 03053 00049 11111 00012 53002 00000 and 11100 00000 19458 03054 00549	FSK 200/1000	(Danix)
F06	14384	8-7	0910	Sat	Russian diplo/intel. Header: 11166 70004 64283 07096 01829	FSK 200/1000	(AB/Danix)
F06	7526	4-7	1750	Tue	Russian diplo/intel. 11166 00000 23715 03053 00049 11111 00012 53002 00000 and 11100 00000 19458 03054 00549	FSK 200/1000	(Danix)
F06	15964	8-7	1100	Sat	Russian diplo/intel. Header: 11166 50046 37294 07002 04229	FSK 200/1000	(AB/Danix/ MPJ)
F06	13549	8-7	1110	Sat	Russian diplo/intel. Header: 11166 50046 37294 07002 04229	FSK 200/1000	(AB/Danix/ MPJ)
F06	11524	8-7	1120	Sat	Russian diplo/intel. Header: 11166 50046 37294 07002 04229	FSK 200/1000	(AB/Danix/ MPJ)
F06	6791	22-7	1720	Sat	Russian diplo/intel. Header: 11100 00000 62389 21065 00529	FSK 200/1000	(AB/Danix)
F06	12058	26-7	0810	Wed	Russian diplo/intel. 11166 70048 12345 26026 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix)
F06	13994	26-7	0800	Wed	Russian diplo/intel. 11166 70048 12345 26026 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix)
F06	10687	4-7	1800	Tue	Russian diplo/intel. 11166 00000 02678 03012 00049 11111 00011 12002 00000 and 11100 00000 53947 03013 00669	FSK 200/1000	(Danix)
F06	14649	19-7	1240	Wed	Russian diplo/intel. 11166 90073 15963 19001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix)
F06	7992	20-7	1810	Thu	Russian diplo/intel. Header: 11100 00000 41982 19023 00639	FSK 200/1000	(AB/Danix)
F06	16089	8-7	0900	Sat	Russian diplo/intel. Header: 11166 70004 64283 07096 01829	FSK 200/1000	(AB/Danix)
F06	11122	20-7	1700	Thu	Russian diplo/intel. Header: 11100 00000 69423 19064 00539	FSK 200/1000	(AB/Danix/ MPJ)
F06	19466	30-7	1520	Sun	Russian diplo/intel. Test: 464646464646 464646464646 464646464646	FSK 200/1000	(AB- RUS/Danix)
F06	12167	12-7	1730	Wed	Russian diplo/intel. Header: 11166 00000 56973 10059 00159	FSK 200/1000	(AB/Danix)
F06	9937	12-7	1740	Wed	Russian diplo/intel. Header: 11166 00000 56973 10059 00159	FSK 200/1000	(AB/Danix)
F06	7526	12-7	1750	Wed	Russian diplo/intel. Header: 11166 00000 56973 10059 00159	FSK 200/1000	(AB/Danix/ MPJ)
F06	13446	13-7	0620	Thu	Russian diplo/intel. Headers: 11166	FSK 200/1000	(AB-J/Danix)

					40122 85712 08028 03029 and 11166 40122 58741 08029 02559		
F06	10687	12-7	1800	Wed	Russian diplo/intel. Header: 11166 00000 83497 10018 00159	FSK 200/1000	(AB/Danix/ MPJ)
F06	7992	12-7	1810	Wed	Russian diplo/intel. Header: 11166 00000 83497 10018 00159	FSK 200/1000	(AB/Danix/ MPJ)
F06	5913	12-7	1820	Wed	Russian diplo/intel. Header: 11166 00000 83497 10018 00159	FSK 200/1000	(AB/Danix/ MPJ)
F06	11611	12-7	1830	Wed	Russian diplo/intel. Header: 11166 00000 83497 10018 00159	FSK 200/1000	(AB/Danix/ MPJ)
F06	9067	12-7	1710	Wed	Russian diplo/intel. Header: 11166 00000 56973 10059 00159	FSK 200/1000	(AB/Danix)
F06	6957	12-7	1850	Wed	Russian diplo/intel. Header: 11166 00000 83497 10018 00159	FSK 200/1000	(AB/Danix/ MPJ)
F06	11122	12-7	1700	Wed	Russian diplo/intel. Header: 11166 00000 56973 10059 00159	FSK 200/1000	(AB/Danix/ MPJ)
F06	15707	13-7	0610	Thu	Russian diplo/intel. Headers: 11166 40122 85712 08028 03029 and 11166 40122 58741 08029 02559	FSK 200/1000	(AB-J/Danix)
F06	17419	13-7	0600	Thu	Russian diplo/intel. Headers: 11166 40122 85712 08028 03029 and 11166 40122 58741 08029 02559	FSK 200/1000	(AB-J/Danix)
F06	9925	20-7	1350	Thu	Russian diplo/intel. 11166 80214 98507 20031 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix)
F06	11643	20-7	1340	Thu	Russian diplo/intel. 11166 80214 98507 20031 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix/ MPJ)
F06	13814	20-7	1330	Thu	Russian diplo/intel. 11166 80214 98507 20031 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix)
F06	9067	22-7	1710	Sat	Russian diplo/intel. Header: 11100 00000 62389 21065 00529	FSK 200/1000	(AB/Danix/ MPJ)
F06	11122	4-7	1700	Tue	Russian diplo/intel. 11166 00000 23715 03053 00049 11111 00012 53002 00000 and 11100 00000 19458 03054 00549	FSK 200/1000	(Danix)
F06	11122	22-7	1700	Sat	Russian diplo/intel. Header: 11100 00000 62389 21065 00529	FSK 200/1000	(AB/Danix/ MPJ)
F06	16244	5-7	1230	Wed	Russian diplo/intel. 11166 90073 35791 05001 00049 0000 00000 00000 00000	FSK 200/1000	(AB/Danix/ MPJ)
F06	9425	12-7	1840	Wed	Russian diplo/intel. Header: 11166 00000 83497 10018 00159	FSK 200/1000	(AB/Danix)
F06	13549	30-7	1110	Sun	Russian diplo/intel. Header: 11166 50046 18374 21004 02589	FSK 200/1000	(AB/Danix/ MPJ/FT)
F06	13468	8-7	0800	Sat	Russian diplo/intel. Header: 11166 70147 05196 07060 01509	FSK 200/1000	(AB/Danix)
F06	14948	12-7	0905	Wed	Russian diplo/intel. Test: 46464646 46464646 46464646	FSK 200/1000	(AB)
F06	14948	12-7	0915	Wed	Russian diplo/intel. 11166 10031 13579 12001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	12176	12-7	0925	Wed	Russian diplo/intel. 11166 10031 13579 12001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	10177	12-7	0935	Wed	Russian diplo/intel. 11166 10031 13579 12001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	11060	13-7	0820	Thu	Russian diplo/intel. Header: 11166 00052 83724 11016 01769	FSK 200/1000	(AB/Danix)

F06	13428	13-7	0810	Thu	Russian diplo/intel. Header: 11166 00052 83724 11016 01769	FSK 200/1000	(AB/Danix)
F06	13446	26-7	0620	Wed	Russian diplo/intel. Header: 11166 40122 17548 22030 03799	FSK 200/1000	(AB-CHN)
F06	15707	26-7	0610	Wed	Russian diplo/intel. Header: 11166 40122 17548 22030 03799	FSK 200/1000	(AB-KOR)
F06	6791	12-7	1720	Wed	Russian diplo/intel. Header: 11166 00000 56973 10059 00159	FSK 200/1000	(AB/Danix)
F06	11524	30-7	1120	Sun	Russian diplo/intel. Header: 11166 50046 18374 21004 02589	FSK 200/1000	(AB/Danix/ MPJ/FT)
F06	5913	20-7	1820	Thu	Russian diplo/intel. Header: 11100 00000 41982 19023 00639	FSK 200/1000	(AB/Danix)
F06	10687	20-7	1800	Thu	Russian diplo/intel. Header: 11100 00000 41982 19023 00639	FSK 200/1000	(AB/Danix)
F06	12206	19-7	1250	Wed	Russian diplo/intel. 11166 90073 15963 19001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix)
F06	15964	30-7	1100	Sun	Russian diplo/intel. Header: 11166 50046 18374 21004 02589	FSK 200/1000	(AB/Danix/ MPJ/FT)
F06	17419	26-7	0600	Wed	Russian diplo/intel. Header: 11166 40122 17548 22030 03799	FSK 200/1000	(AB-CHN)
F06	7526	20-7	1750	Thu	Russian diplo/intel. Header: 11100 00000 69423 19064 00539	FSK 200/1000	(AB/Danix)
F06	9937	20-7	1740	Thu	Russian diplo/intel. Header: 11100 00000 69423 19064 00539	FSK 200/1000	(AB/Danix/ MPJ)
F06	12167	20-7	1730	Thu	Russian diplo/intel. Header: 11100 00000 69423 19064 00539	FSK 200/1000	(AB/Danix)
F06	6791	20-7	1720	Thu	Russian diplo/intel. Header: 11100 00000 69423 19064 00539	FSK 200/1000	(AB/Danix)
F06	9067	20-7	1710	Thu	Russian diplo/intel. Header: 11100 00000 69423 19064 00539	FSK 200/1000	(AB/Danix)
F06	15795	13-7	0800	Thu	Russian diplo/intel. Header: 11166 00052 83724 11016 01769	FSK 200/1000	(AB/Danix)
F06	11154	4-7	1520	Tue	Russian diplo/intel. 11166 00052 54086 04062 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix)
F06	9425	10-7	1840	Mon	Russian diplo/intel. Header: 11100 00000 75319 09017 00639	FSK 200/1000	(AB/Danix/ MPJ)
F06	10177	26-7	0935	Wed	Russian diplo/intel. 11166 10031 36987 26001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix)
F06	13814	6-7	1330	Thu	Russian diplo/intel. 11166 80214 98507 06020 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix)
F06	11643	6-7	1340	Thu	Russian diplo/intel. 11166 80214 98507 06020 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix)
F06	9925	6-7	1350	Thu	Russian diplo/intel. 11166 80214 98507 06020 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix)
F06	6957	10-7	1850	Mon	Russian diplo/intel. Header: 11100 00000 75319 09017 00639	FSK 200/1000	(AB/Danix/ MPJ)
F06	9937	28-7	1740	Fri	Russian diplo/intel. Header: 11100 00000 58937 27068 00539	FSK 200/1000	(AB/Danix/ MPJ)
F06	12167	6-7	1730	Thu	Russian diplo/intel. Headers: 11166 00000 18352 05055 00169 and 11166 00000 27534 06056 00049	FSK 200/1000	(Danix)
F06	17436	8-7	2100	Sat	Russian diplo/intel. 11166 40133 17935 08032 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix)

F06	16348	25-7	1700	Tue	Russian diplo/intel. 11166 10053 56248 25001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix/ MPJ)
F06	9486	8-7	0820	Sat	Russian diplo/intel. Header: 11166 70147 05196 07060 01509	FSK 200/1000	(AB/Danix)
F06	7526	28-7	1750	Fri	Russian diplo/intel. Header: 11100 00000 58937 27068 00539	FSK 200/1000	(AB/Danix/ MPJ)
F06	11060	26-7	0820	Wed	Russian diplo/intel. Header: 11166 00052 29135 25017 01789	FSK 200/1000	(AB/Danix)
F06	17436	29-7	2100	Sat	Russian diplo/intel. 11166 40133 17935 29001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	15789	29-7	2110	Sat	Russian diplo/intel. 11166 40133 17935 29001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	11122	6-7	1700	Thu	Russian diplo/intel. Headers: 11166 00000 18352 05055 00169 and 11166 00000 27534 06056 00049	FSK 200/1000	(Da- nix/dmhz)
F06	9067	6-7	1710	Thu	Russian diplo/intel. Headers: 11166 00000 18352 05055 00169 and 11166 00000 27534 06056 00049	FSK 200/1000	(Danix)
F06	6791	6-7	1720	Thu	Russian diplo/intel. Headers: 11166 00000 18352 05055 00169 and 11166 00000 27534 06056 00049	FSK 200/1000	(Danix)
F06	13376	4-7	1510	Tue	Russian diplo/intel. 11166 00052 54086 04062 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix)
F06	9486	23-7	0820	Sun	Russian diplo/intel. Header: 11166 70147 56921 21062 01369	FSK 200/1000	(AB/Danix)
F06	15707	6-7	0610	Thu	Russian diplo/intel. Header: 11166 40122 25098 01027 03359	FSK 200/1000	(AB- NZL/Danix)
F06	13446	6-7	0620	Thu	Russian diplo/intel. Header: 11166 40122 25098 01027 03359	FSK 200/1000	(AB- NZL/Danix)
F06	9067	28-7	1710	Fri	Russian diplo/intel. Header: 11100 00000 58937 27068 00539	FSK 200/1000	(AB/Danix/ MPJ)
F06	5913	10-7	1820	Mon	Russian diplo/intel. Header: 11100 00000 75319 09017 00639	FSK 200/1000	(AB- RUS/Danix/ MPJ)
F06	6791	28-7	1720	Fri	Russian diplo/intel. Header: 11100 00000 58937 27068 00539	FSK 200/1000	(AB/Danix/ MPJ)
F06	11611	10-7	1830	Mon	Russian diplo/intel. Header: 11100 00000 75319 09017 00639	FSK 200/1000	(AB/Danix/ MPJ)
F06	11634	9-7	0810	Sun	Russian diplo/intel. Header: 11166 70147 05196 07060 01509	FSK 200/1000	(AB/Danix)
F06	19535	25-7	1650	Tue	Russian diplo/intel. 11166 10053 56248 25001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix/ MPJ)
F06	13468	9-7	0800	Sun	Russian diplo/intel. Header: 11166 70147 05196 07060 01509	FSK 200/1000	(AB/Danix)
F06	19535	11-7	1650	Tue	Russian diplo/intel. 11166 10053 35791 11001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	13588	25-7	1710	Tue	Russian diplo/intel. 11166 10053 56248 25001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix/ MPJ)
F06	11634	23-7	0810	Sun	Russian diplo/intel. Header: 11166 70147 56921 21062 01369	FSK 200/1000	(AB/Danix)
F06	13468	23-7	0800	Sun	Russian diplo/intel. Header: 11166 70147 56921 21062 01369	FSK 200/1000	(AB/Danix)
F06	9481	6-7	0950	Thu	Russian diplo/intel. Header: 11100	FSK 200/1000	(Danix)

					00000 21547 06012 02549		
F06	11154	11-7	1520	Tue	Russian diplo/intel. 11166 00052 59632 11047 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	13376	11-7	1510	Tue	Russian diplo/intel. 11166 00052 59632 11047 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	15733	11-7	1500	Tue	Russian diplo/intel. 11166 00052 59632 11047 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	12167	28-7	1730	Fri	Russian diplo/intel. Header: 11100 00000 58937 27068 00539	FSK 200/1000	(AB/Danix/ MPJ)
F06	9925	13-7	1350	Thu	Russian diplo/intel. 11166 80214 41297 13067 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix/ MPJ)
F06	16348	11-7	1700	Tue	Russian diplo/intel. 11166 10053 35791 11001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	12206	5-7	1250	Wed	Russian diplo/intel. 11166 90073 35791 05001 00049 0000 00000 00000 00000	FSK 200/1000	(AB/Danix/ MPJ)
F06	12176	26-7	0925	Wed	Russian diplo/intel. 11166 10031 36987 26001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix)
F06	14948	26-7	0915	Wed	Russian diplo/intel. 11166 10031 36987 26001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix)
F06	14948	26-7	0905	Wed	Russian diplo/intel. Test: 4646464646 4646464646	FSK 200/1000	(AB)
F06	9937	6-7	1740	Thu	Russian diplo/intel. Headers: 11166 00000 18352 05055 00169 and 11166 00000 27534 06056 00049	FSK 200/1000	(Danix)
F06	12167	4-7	1730	Tue	Russian diplo/intel. 11166 00000 23715 03053 00049 11111 00012 53002 00000 and 11100 00000 19458 03054 00549	FSK 200/1000	(Danix)
F06	6791	4-7	1720	Tue	Russian diplo/intel. 11166 00000 23715 03053 00049 11111 00012 53002 00000 and 11100 00000 19458 03054 00549	FSK 200/1000	(Danix)
F06	5913	28-7	1820	Fri	Russian diplo/intel. Header: 11100 00000 79135 27027 00639	FSK 200/1000	(AB/Danix/ MPJ)
F06	15789	22-7	2110	Sat	Russian diplo/intel. 11166 40133 56248 22001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	13473	22-7	2120	Sat	Russian diplo/intel. 11166 40133 56248 22001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	16189	30-7	1540	Sun	Russian diplo/intel. 11166 10053 13579 30001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix/ MPJ/FT)
F06	14948	26-7	0905	Wed	Russian diplo/intel. Test: 12883 53970 54208 86726 95642 16000 00000	FSK 200/1000	(AB)
F06	16089	23-7	0900	Sun	Russian diplo/intel. Header: 11166 70004 64283 07096 01829	FSK 200/1000	(AB/Danix)
F06	6957	22-7	1850	Sat	Russian diplo/intel. Header: 11100 00000 10487 21024 00649	FSK 200/1000	(AB/Danix)
F06	9425	22-7	1840	Sat	Russian diplo/intel. Header: 11100 00000 10487 21024 00649	FSK 200/1000	(AB/Danix)
F06	11611	22-7	1830	Sat	Russian diplo/intel. Header: 11100 00000 10487 21024 00649	FSK 200/1000	(AB/Danix)

F06	5913	22-7	1820	Sat	Russian diplo/intel. Header: 11100 00000 10487 21024 00649	FSK 200/1000	(AB/Danix)
F06	7992	22-7	1810	Sat	Russian diplo/intel. Header: 11100 00000 10487 21024 00649	FSK 200/1000	(AB/Danix)
F06	10687	22-7	1800	Sat	Russian diplo/intel. Header: 11100 00000 10487 21024 00649	FSK 200/1000	(AB/Danix)
F06	11611	28-7	1830	Fri	Russian diplo/intel. Header: 11100 00000 79135 27027 00639	FSK 200/1000	(AB/Danix/ MPJ)
F06	16244	19-7	1221	Wed	Russian diplo/intel. Test: 464646464646 4646464646464646	FSK 200/1000	(AB/Danix)
F06	17436	22-7	2100	Sat	Russian diplo/intel. 11166 40133 56248 22001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	11643	13-7	1340	Thu	Russian diplo/intel. 11166 80214 41297 13067 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix/ MPJ)
F06	7992	28-7	1810	Fri	Russian diplo/intel. Header: 11100 00000 79135 27027 00639	FSK 200/1000	(AB/Danix/ MPJ)
F06	5913	6-7	1820	Thu	Russian diplo/intel. Headers: 11166 00000 81045 05014 00179 and 11166 00000 14570 06015 00049	FSK 200/1000	(Danix)
F06	7526	6-7	1750	Thu	Russian diplo/intel. Headers: 11166 00000 18352 05055 00169 and 11166 00000 27534 06056 00049	FSK 200/1000	(Danix)
F06	10687	6-7	1800	Thu	Russian diplo/intel. Headers: 11166 00000 81045 05014 00179 and 11166 00000 14570 06015 00049	FSK 200/1000	(Danix)
F06	11611	6-7	1830	Thu	Russian diplo/intel. Headers: 11166 00000 81045 05014 00179 and 11166 00000 14570 06015 00049	FSK 200/1000	(Danix)
F06	9425	6-7	1840	Thu	Russian diplo/intel. Headers: 11166 00000 81045 05014 00179 and 11166 00000 14570 06015 00049	FSK 200/1000	(Danix)
F06	13473	29-7	2120	Sat	Russian diplo/intel. 11166 40133 17935 29001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	13473	8-7	2120	Sat	Russian diplo/intel. 11166 40133 17935 08032 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix)
F06	13814	13-7	1330	Thu	Russian diplo/intel. 11166 80214 41297 13067 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix/ MPJ)
F06	10687	28-7	1800	Fri	Russian diplo/intel. Header: 11100 00000 79135 27027 00639	FSK 200/1000	(AB/Danix/ MPJ)
F06	6957	6-7	1850	Thu	Russian diplo/intel. Headers: 11166 00000 81045 05014 00179 and 11166 00000 14570 06015 00049	FSK 200/1000	(Danix)
F06	15789	8-7	2110	Sat	Russian diplo/intel. 11166 40133 17935 08032 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix)
F06	7992	6-7	1810	Thu	Russian diplo/intel. Headers: 11166 00000 81045 05014 00179 and 11166 00000 14570 06015 00049	FSK 200/1000	(Danix)
F06a	16346	3-7	1220	Mon	sends file 10075~1.TXT (1857 bytes) (CRC32: 19CAB291). Header: 11100 10075 23654 01063 03009	FSK 200/1000 ACF=288	(Danix)
F11	8423	7-7	0905	Fri	0554 00000	FSK 100/620	(AB)
F11	13424	24-7	0845	Mon	0353 88888 88888 98300 81093 07640 ... 65950 67753 59803 88888 88888 00037 00037	FSK 100/620	(AB)

F11	8423	18-7	0900	Tue	0554 00000	FSK 100/620	(AB)
F11	13424	17-7	0845	Mon	0353 00000	FSK 100/620	(AB)
F11	13424	17-7	0850	Mon	0353 00000	FSK 100/620	(AB)
F11	6480	17-7	0805	Mon	0434 00000	FSK 100/620	(AB)
F11	7837	31-7	0520	Mon	0446 00000	FSK 100/620	(AB)
F11	6480	17-7	0800	Mon	0434 00000	FSK 100/620	(AB)
F11	7837	31-7	0515	Mon	0446 00000	FSK 100/620	(AB)
F11	15632	7-7	0730	Fri	0453 88888 88888 01751 80675 57359 ... 93623 62759 25142 88888 88888 00036 00036	FSK 100/620	(AB)
F11	8423	18-7	0905	Tue	0554 00000	FSK 100/620	(AB)
F11	13424	31-7	0845	Mon	0353 00000	FSK 100/620	(AB)
F11	8423	7-7	0900	Fri	0554 00000	FSK 100/620	(AB)
F11	8423	28-7	0905	Fri	0554 00000	FSK 100/620	(AB)
F11	13470	18-7	0630	Tue	0574 00000	FSK 100/620	(AB)
F11	15632	7-7	0735	Fri	0453 88888 88888 01751 80675 57359 ... 93623 62759 25142 88888 88888 00036 00036	FSK 100/620	(AB)
F11	13424	31-7	0850	Mon	0353 00000	FSK 100/620	(AB)
F11	7837	17-7	0515	Mon	0446 00000	FSK 100/620	(AB)
F11	7837	17-7	0520	Mon	0446 00000	FSK 100/620	(AB)
F11	6480	31-7	0800	Mon	0434 00000	FSK 100/620	(AB)
F11	13424	24-7	0850	Mon	0353 88888 88888 98300 81093 07640 ... 65950 67753 59803 88888 88888 00037 00037	FSK 100/620	(AB)
F11	7837	20-7	0515	Thu	0446 00000	FSK 100/620	(AB)
F11	6480	31-7	0805	Mon	0434 00000	FSK 100/620	(AB)
F11	13470	18-7	0635	Tue	0574 00000	FSK 100/620	(AB)
F11	13470	6-7	0635	Thu	0574 00000	FSK 100/620	(AB)
F11	6480	13-7	0805	Thu	0434 00000	FSK 100/620	(AB)
F11	6480	13-7	0800	Thu	0434 00000	FSK 100/620	(AB)
F11	15632	21-7	0735	Fri	0453 000	FSK 100/620	(AB)
F11	15632	21-7	0730	Fri	0453 000	FSK 100/620	(AB)
F11	6480	20-7	0800	Thu	0434 00000	FSK 100/620	(AB)
F11	6480	20-7	0805	Thu	0434 00000	FSK 100/620	(AB)
F11	13470	13-7	0635	Thu	0574 00000	FSK 100/620	(AB)
F11	13470	13-7	0630	Thu	0574 00000	FSK 100/620	(AB)
F11	7837	13-7	0520	Thu	0446 88888 88888 49814 53682 89575 ... 47210 80070 28763 88888 88888 00037 00037	FSK 100/620	(AB)
F11	7837	13-7	0515	Thu	0446 88888 88888 49814 53682 89575 ... 47210 80070 28763 88888 88888 00037 00037	FSK 100/620	(AB)
F11	13424	26-7	0845	Wed	0353 88888 88888 98300 81093 07640 ... 65950 67753 59803 88888 88888 00037 00037	FSK 100/620	(AB)
F11	13470	4-7	0635	Tue	0574 00000	FSK 100/620	(AB)
F11	8423	21-7	0900	Fri	0554 00000	FSK 100/620	(AB)
F11	6280	12-7	1155	Wed	0325 00000	FSK 100/620	(AB)
F11	8423	28-7	0900	Fri	0554 00000	FSK 100/620	(AB)
F11	13424	5-7	0850	Wed	0353 00000	FSK 100/620	(AB)
F11	13424	12-7	0850	Wed	0353 00000	FSK 100/620	(AB)
F11	13424	12-7	0845	Wed	0353 00000	FSK 100/620	(AB)
F11	15632	26-7	0730	Wed	0453 00000	FSK 100/620	(AB)
F11	15632	26-7	0735	Wed	0453 00000	FSK 100/620	(AB)
F11	13470	11-7	0630	Tue	0574 00000	FSK 100/620	(AB)
F11	13470	11-7	0635	Tue	0574 00000	FSK 100/620	(AB)
F11	13470	25-7	0630	Tue	0574 88888 88888 86538 10919 08922 ... 49217 91273 34149 88888 88888 00043 00043	FSK 100/620	(AB)

F11	13424	5-7	0845	Wed	0353 00000	FSK 100/620	(AB)
F11	13470	25-7	0635	Tue	0574 88888 88888 86538 10919 08922 ... 49217 91273 34149 88888 88888 00043 00043	FSK 100/620	(AB)
F11	13424	10-7	0850	Mon	0353 00000	FSK 100/620	(AB)
F11	8423	25-7	0905	Tue	0554 00000	FSK 100/620	(AB)
F11	8423	25-7	0900	Tue	0554 00000	FSK 100/620	(AB)
F11	6280	18-7	1155	Tue	0325 00000	FSK 100/620	(AB)
F11	6280	18-7	1150	Tue	0325 00000	FSK 100/620	(AB)
F11	6280	5-7	1155	Wed	0325 00000	FSK 100/620	(AB)
F11	6280	5-7	1150	Wed	0325 00000	FSK 100/620	(AB)
F11	6280	25-7	1150	Tue	0325 88888 88888 28223 44855 40429 ... 48116 35671 56966 88888 88888 00041 00041	FSK 100/620	(AB/FT)
F11	6280	25-7	1155	Tue	0325 88888 88888 28223 44855 40429 ... 48116 35671 56966 88888 88888 00041 00041	FSK 100/620	(AB/FT)
F11	7837	10-7	0515	Mon	0446 88888 88888 49814 53682 89575 ... 47210 80070 28763 88888 88888 00037 00037	FSK 100/620	(AB)
F11	7837	10-7	0520	Mon	0446 88888 88888 49814 53682 89575 ... 47210 80070 28763 88888 88888 00037 00037	FSK 100/620	(AB)
F11	6480	10-7	0800	Mon	0434 00000	FSK 100/620	(AB)
F11	6280	19-7	1155	Wed	0325 00000	FSK 100/620	(AB)
F11	13424	10-7	0845	Mon	0353 00000	FSK 100/620	(AB)
F11	6280	19-7	1150	Wed	0325 00000	FSK 100/620	(AB)
F11	15632	19-7	0730	Wed	0453 00000	FSK 100/620	(AB)
F11	15632	19-7	0735	Wed	0453 00000	FSK 100/620	(AB)
F11	8423	14-7	0905	Fri	0554 88888 88888 08430 23481 74955 ... 03917 42810 08715 88888 88888 00038 00038	FSK 100/620	(AB/MPJ)
F11	8423	14-7	0900	Fri	0554 88888 88888 08430 23481 74955 ... 03917 42810 08715 88888 88888 00038 00038	FSK 100/620	(AB/MPJ)
F11	15632	14-7	0735	Fri	0453 000	FSK 100/620	(AB)
F11	15632	14-7	0730	Fri	0453 000	FSK 100/620	(AB)
F11	8423	21-7	0905	Fri	0554 00000	FSK 100/620	(AB)
F11	13424	19-7	0845	Wed	0353 00000	FSK 100/620	(AB)
F11	13424	19-7	0850	Wed	0353 00000	FSK 100/620	(AB)
F11	8423	4-7	0905	Tue	0554 00000	FSK 100/620	(AB)
F11	6280	12-7	1150	Wed	0325 00000	FSK 100/620	(AB)
F11	6480	10-7	0805	Mon	0434 00000	FSK 100/620	(AB)
F11	13470	27-7	0635	Thu	0574 88888 88888 86538 10919 08922 ... 49217 91273 34149 88888 88888 00043 00043	FSK 100/620	(AB)
F11	13470	6-7	0630	Thu	0574 00000	FSK 100/620	(AB)
F11	13424	26-7	0850	Wed	0353 88888 88888 98300 81093 07640 ... 65950 67753 59803 88888 88888 00037 00037	FSK 100/620	(AB)
F11	7837	6-7	0515	Thu	0446 00000	FSK 100/620	(AB)
F11	6480	3-7	0800	Mon	0434 00000	FSK 100/620	(AB)
F11	7837	24-7	0515	Mon	0446 00000	FSK 100/620	(AB)
F11	7837	24-7	0520	Mon	0446 00000	FSK 100/620	(AB)
F11	7837	3-7	0520	Mon	0446 00000	FSK 100/620	(AB)
F11	7837	3-7	0515	Mon	0446 00000	FSK 100/620	(AB)
F11	6480	24-7	0800	Mon	0434 88888 88888 20079 12133 75806 ... 92320 31620 96253 88888 88888 00035 00035	FSK 100/620	(AB)
F11	6480	24-7	0805	Mon	0434 88888 88888 20079 12133 75806	FSK 100/620	(AB)

					... 92320 31620 96253 88888 88888 00035 00035		
F11	7837	27-7	0520	Thu	0446 00000	FSK 100/620	(AB)
F11	15632	5-7	0735	Wed	0453 88888 88888 01751 80675 57359 ... 93623 62759 25142 88888 88888 00036 00036	FSK 100/620	(AB)
F11	8423	4-7	0900	Tue	0554 00000	FSK 100/620	(AB)
F11	13470	27-7	0630	Thu	0574 88888 88888 86538 10919 08922 ... 49217 91273 34149 88888 88888 00043 00043	FSK 100/620	(AB)
F11	7837	6-7	0520	Thu	0446 00000	FSK 100/620	(AB)
F11	15632	12-7	0730	Wed	0453 00000	FSK 100/620	(AB)
F11	13470	20-7	0635	Thu	0574 00000	FSK 100/620	(AB)
F11	15632	12-7	0735	Wed	0453 00000	FSK 100/620	(AB)
F11	6480	27-7	0800	Thu	0434 88888 88888 20079 12133 75806 ... 92320 31620 96253 88888 88888 00035 00035	FSK 100/620	(AB/FT)
F11	6480	27-7	0805	Thu	0434 88888 88888 20079 12133 75806 ... 92320 31620 96253 88888 88888 00035 00035	FSK 100/620	(AB/FT)
F11	13470	4-7	0630	Tue	0574 00000	FSK 100/620	(AB)
F11	13470	20-7	0630	Thu	0574 00000	FSK 100/620	(AB)
F11	7837	27-7	0515	Thu	0446 00000	FSK 100/620	(AB)
F11	6280	4-7	1150	Tue	0325 00000	FSK 100/620	(AB)
F11	6280	4-7	1155	Tue	0325 00000	FSK 100/620	(AB)
F11	15632	28-7	0730	Fri	0453 000	FSK 100/620	(AB)
F11	15632	28-7	0735	Fri	0453 000	FSK 100/620	(AB)
F11	7837	20-7	0520	Thu	0446 00000	FSK 100/620	(AB)
F11	15632	5-7	0730	Wed	0453 88888 88888 01751 80675 57359 ... 93623 62759 25142 88888 88888 00036 00036	FSK 100/620	(AB)
F11	8423	11-7	0900	Tue	0554 88888 88888 08430 23481 74955 ... 03917 42810 08715 88888 88888 00038 00038	FSK 100/620	(AB)
F11	6280	26-7	1155	Wed	0325 88888 88888 28223 44855 40429 ... 48116 35671 56966 88888 88888 00041 00041	FSK 100/620	(AB)
F11	8423	11-7	0905	Tue	0554 88888 88888 08430 23481 74955 ... 03917 42810 08715 88888 88888 00038 00038	FSK 100/620	(AB)
F11	6280	26-7	1150	Wed	0325 88888 88888 28223 44855 40429 ... 48116 35671 56966 88888 88888 00041 00041	FSK 100/620	(AB)
F11	6280	11-7	1150	Tue	0325 00000	FSK 100/620	(AB)
F11	6280	11-7	1155	Tue	0325 00000	FSK 100/620	(AB)
F11	6480	6-7	0800	Thu	0434 00000	FSK 100/620	(AB)
F11	6480	6-7	0805	Thu	0434 00000	FSK 100/620	(AB)
F11	6480	3-7	0805	Mon	0434 00000	FSK 100/620	(AB)
G06	5935	28-7	1930	Fri	218 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000 Windows shut down sound	USB	(AB/MPJ)
G06	5764	3-7	1758	Mon	563 563 563 00000 Windows error sound + Windows shut down sound	USB	(AB/MPJ)
G06	6887	13-7	1830	Thu	842 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000 Windows shut down sound	USB	(AB/MPJ)
G06	7368	12-7	1259	Wed	563 563 563 00000 Windows shutdown sound	USB	(AB/MPJ/ES)
G06	6924	5-7	1307	Wed	111 111 111 00000	USB	(ES)
G06	6930	12-7	1213	Wed	111 111 111 00000	USB	(AB/ES)

G06	5890	6-7	1300	Thu	Windows sounds, then 329 329 329 00000 followed by Windows shut down sound	USB	(AB)
G06	5764	10-7	1759	Mon	563 563 563 00000 Windows shutdown sound	USB	(AB/MPJ)
G06	5935	14-7	1930	Fri	218 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000 Windows shut down sound	USB	(AB/MPJ)
G06	6887	27-7	1830	Thu	842 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000	USB	(AB/GHn/MPJ)
G06	7368	5-7	1259	Wed	563 563 563 00000 Windows shutdown sound	USB	(AB/MPJ/ES)
G06	5890	6-7	1226	Thu	111 111 111 00000	USB	(AB)
G06	7320	17-7	0759	Mon	329 329 329 00000	USB	(AB)
G06	5471	3-7	1700	Mon	Carrier, no audio	USB	(AB)
G06	6924	5-7	1304	Wed	111 111 111 00000	USB	(ES)
G06	7320	3-7	0758	Mon	329 329 329 00000 Windows shut down sound	USB	(AB/ES)
G06	5471	3-7	1710	Mon	11 00000 111 111 1 carrier off	USB	(AB)
G06	6930	12-7	1159	Wed	563 563 563 00000	USB	(AB/MPJ/ES)
G06	6924	5-7	1205	Wed	111 111 111 00000	USB	(AB)
G06	6924	5-7	1159	Wed	563 563 563 00000	USB	(AB/MPJ)
HM01	17480	20-7	2157	Thu	90243 10668 72075 82851 06229 11581	AM/RDFT	(RL)
HM01	11435	24-7	1559	Mon	90244 10669 72076 82852 82151 11582 (repeats groups of 21 July)	AM/RDFT	(DSch)
HM01	11635	21-7	1813	Fri	i.p. 90244 10669 72076 82852 82151 11582	AM/RDFT	(RR2)
HM01	13435	22-7	0658	Sat	90244 10669 72076 82852 82851 11582	AM/RDFT	(AB)
HM01	11462	22-7	0859	Sat	90244 10669 72076 82852 82851 11582 (repeats groups of 21 July)	AM/RDFT	(AB)
HM01	11530	21-7	1700	Fri	90244 10669 72076 82852 82851 11582	AM/RDFT	(DSch)
HM01	12180	22-7	0958	Sat	90244 10669 72076 82852 82851 11582 (repeats groups of 21 July)	AM/RDFT	(AB)
HM01	11635	24-7	2145	Mon	90244 10669 72076 82852 82151 11582 (repeats groups of 21 July)	AM/RDFT	(DSch)
HM01	11635	22-7	0758	Sat	90244 10669 72076 82852 82851 11582	AM/RDFT	(AB)
HM01	11462	22-7	0503	Sat	90244 10669 72076 82852 82851 11582 Late start	AM/RDFT	(AB)
HM01	16180	20-7	2057	Thu	90243 10668 72075 82851 06229 11581	AM/RDFT	(RL)
HM01	11435	29-7	1604	Sat	i.p. 37633 61847 58104 02802 82158 27091	AM/RDFT	(RR2)
HM01	11435	29-7	1613	Sat	37633 61847 58104 02802 82158 27091	AM/RDFT	(DSch)
HM01	11635	20-7	1805	Thu	90243 10668 72075 82851 06229 11581	AM/RDFT	(RR2)
HM01	10715	24-7	2157	Mon	90244 10669 72076 82852 82151 11582 (repeats groups of 21 July)	AM/RDFT	(RL)
HM01	11635	24-7	2057	Mon	90244 10669 72076 82852 82151 11582 (repeats groups of 21 July)	AM/RDFT	(RL)
HM01	11435	25-7	1615	Tue	i.p. 90244 10669 72076 82852 82151 11582 (repeats groups of 21 July)	AM/RDFT	(RR2)
HM01	10860	21-7	0512	Fri	i.p. 90243 10668 72075 82851 06229 11581	AM/RDFT	(AB)
HM01	11462	20-7	0500	Thu	90242 10667 72074 82851 06228 11581	AM/RDFT	(AB)

HM01	17480	25-7	2157	Tue	90248 61843 58101 82856 82154 11586	AM/RDFT	(RL)
HM01	16180	25-7	2057	Tue	90248 61843 58101 82856 82154 11586	AM/RDFT	(RL)
HM01	11635	28-7	1830	Fri	37632 61846 58103 02801 82157 11589	AM/RDFT	(RR2)
HM01	11530	3-7	1658	Mon	76127 48762 06621 10843 51773 14054 (repeating groups of 24 June)	AM/RDFT	(AB-USA)
HM01	11530	3-7	1708	Mon	76127 48762 06621 10843 51773 14054 (repeating groups of 24 June)	AM/RDFT	(DSch)
HM01	16180	4-7	2057	Tue	76127 48762 06621 10843 51773 14054 (repeating groups of 24 June)	AM/RDFT	(RL)
HM01	11435	6-7	1558	Thu	86671 48763 06621 10844 51774 14055	AM/RDFT	(RL/RR2)
HM01	17480	4-7	2157	Tue	76127 48762 06621 10843 51773 14054 (repeating groups of 24 June)	AM/RDFT	(RL)
HM01	11635	26-7	1800	Wed	37631 61844 58101 82857 82155 11587	AM/RDFT	(RR2)
HM01	11435	9-7	1603	Sun	Messed up-sending; now sending the groups of 7 July: 86672 48764 06622 10845 51775 14056	AM/RDFT	(DSch)
HM01	13435	8-7	0657	Sat	Two identical HM01 transmissions mixing 86672 48764 06622 10845 51775 14056	AM/RDFT	(AB)
HM01	11635	8-7	0758	Sat	Two identical HM01 transmissions mixing 86672 48764 06622 10845 51775 14056	AM/RDFT	(AB)
HM01	11462	8-7	0858	Sat	Two identical HM01 transmissions mixing 86672 48764 06622 10845 51775 14056	AM/RDFT	(AB)
HM01	12180	8-7	0958	Sat	Two identical HM01 transmissions mixing 86672 48764 06622 10845 51775 14056	AM/RDFT	(AB)
HM01	11530	8-7	1658	Sat	Two identical HM01 transmissions mixing 86673 48765 06623 10846 51776 14057	AM/RDFT	(AB)
HM01	11635	8-7	1830	Sat	86673 48765 06623 10846 51776 14057	AM/RDFT	(DSch)
HM01	11435	15-7	1556	Sat	61900 48768 06626 06221 06221 07511 (back to the groups of 11 July)	AM/RDFT	(RR2)
HM01	16180	8-7	2057	Sat	86673 48765 06623 10846 51776 14057. At 2150z back to the old numbers: 86672 48764 06622 10845 51775 14056 and at 2158z transmission mixing	AM/RDFT	(RL)
HM01	16180	6-7	2057	Thu	86671 48763 06621 10844 51774 14055	AM/RDFT	(RL)
HM01	16180	6-7	2157	Thu	86671 48763 06621 10844 51774 14055 should be on 17480 kHz	AM/RDFT	(RL)
HM01	9065	12-7	0758	Wed	61900 48768 06626 06221 06221 07511	AM/RDFT	(AB)
HM01	11462	11-7	0500	Tue	86675 48767 06625 06221 51778 14059	AM/RDFT	(AB)
HM01	9240	12-7	0858	Wed	61900 48768 06626 06221 06221 07511	AM/RDFT	(AB)
HM01	11530	11-7	1739	Tue	86675 48767 06625 06221 51778 14059 (Repeating the groups of 10 July)	AM/RDFT	(DSch)
HM01	11435	10-7	1603	Mon	i.p. 86675 48767 06625 06221 51778 14059	AM/RDFT	(RR2)
HM01	11435	8-7	1610	Sat	i.p. 86673 48765 06623 10846 51776	AM/RDFT	(RR2)

					14057. Normal transmission		
HM01	9065	3-7	0755	Mon	76127 48762 06621 10843 51773 14054 (repeating groups of 24 June)	AM/RDFT	(AB)
HM01	11435	14-7	1600	Fri	61903 10662 06629 06224 06223 07513	AM/RDFT	(RR2)
HM01	11435	13-7	1601	Thu	i.p. 61902 10661 06628 06223 06222 07512	AM/RDFT	(RR2)
HM01	9330	12-7	0658	Wed	61900 48768 06626 06221 06221 07511	AM/RDFT	(AB)
HM01	11435	1-7	1600	Sat	76127 48762 06621 10843 51773 14054 (repeating groups of 24 June)	AM/RDFT	(RR2)
HM01	9330	2-7	0657	Sun	76127 48762 06621 10843 51773 14054 (repeating groups of 24 June)	AM/RDFT	(AB)
HM01	13435	1-7	0658	Sat	76127 48762 06621 10843 51773 14054 (repeating groups of 24 June)	AM/RDFT	(AB)
HM01	14375	8-7	0558	Sat	Two identical HM01 transmissions mixing 86672 48764 06622 10845 51775 14056	AM/RDFT	(AB)
HM01	9330	3-7	0657	Mon	76127 48762 06621 10843 51773 14054 (repeating groups of 24 June)	AM/RDFT	(AB)
HM01	11462	8-7	0514	Sat	Two identical HM01 transmissions mixing 86672 48764 06622 10845 51775 14056	AM/RDFT	(AB)
HM01	16180	11-7	2057	Tue	61900 48768 06626 06221 06221 07511	AM/RDFT	(RL)
HM01	17480	11-7	2230	Tue	i.p. 61900 48768 06626 06221 06221 07511. Very uncommon: group ending on a zero and a repeating group	AM/RDFT	(DSch)
HM01	9240	3-7	0857	Mon	76127 48762 06621 10843 51773 14054 (repeating groups of 24 June)	AM/RDFT	(AB)
HM01	9065	5-7	0758	Wed	76127 48762 06621 10843 51773 14054 (repeating groups of 24 June)	AM/RDFT	(AB)
HM01	11635	5-7	2100	Wed	76127 48762 06621 10843 51773 14054 (repeating groups of 24 June)	AM/RDFT	(RL)
HM01	11530	6-7	1657	Thu	86671 48763 06621 10844 51774 14055	AM/RDFT	(RL)
HM01	9155	5-7	0958	Wed	76127 48762 06621 10843 51773 14054 (repeating groups of 24 June)	AM/RDFT	(AB)
HM01	17480	11-7	2157	Tue	61900 48768 06626 06221 06221 07511	AM/RDFT	(RL)
HM01	10860	28-7	0517	Fri	i.p. 37631 61845 58102 02801 82156 11588	AM/RDFT	(AB)
HM01	9240	5-7	0858	Wed	76127 48762 06621 10843 51773 14054 (repeating groups of 24 June)	AM/RDFT	(AB)
HM01	11635	22-7	1816	Sat	90244 10669 720076 82852 82151 11582 (repeats groups of 21 July)	AM/RDFT	(DSch)
HM01	11435	22-7	1600	Sat	90244 10669 72076 82852 82151 11582 (repeats groups of 21 July)	AM/RDFT	(RR2)
HM01	11435	23-7	1600	Sun	90244 10669 72076 82852 82151 11582 (repeats groups of 21 July)	AM/RDFT	(RR2)
HM01	10715	23-7	2157	Sun	90244 10669 72076 82852 82151 11582 (repeats groups of 21 July)	AM/RDFT	(RL)
HM01	11435	7-7	1603	Fri	i.p. 86672 48764 06622 10845 51775 14056	AM/RDFT	(AB)
HM01	9330	9-7	0657	Sun	86673 48765 06623 10846 51776 14057	AM/RDFT	(AB)
HM01	11435	27-7	1600	Thu	37631 61845 58102 02801 82156 11588	AM/RDFT	(DSch/RR2)
HM01	9065	9-7	0758	Sun	86673 48765 06623 10846 51776 14057	AM/RDFT	(AB)

HM01	11435	28-7	1607	Fri	i.p. 37632 61846 58103 02801 82157 11589	AM/RDFT	(DSch)
HM01	9330	7-7	0658	Fri	86671 48763 06621 10844 51774 14055	AM/RDFT	(AB)
HM01	10345	7-7	0558	Fri	86671 48763 06621 10844 51774 14055	AM/RDFT	(AB)
HM01	10860	7-7	0500	Fri	86671 48763 06621 10844 51774 14055	AM/RDFT	(AB)
HM01	11435	31-7	1559	Mon	37635 80181 58106 02804 38301 27093	AM/RDFT	(DSch)
HM01	11435	30-7	1600	Sun	37634 80181 58105 02803 38301 27092	AM/RDFT	(RR2)
HM01	11530	31-7	1658	Mon	37635 80181 58106 02804 38301 27093	AM/RDFT	(RR2)
HM01	11635	7-7	1800	Fri	86672 48764 06622 10845 51775 14056	AM/RDFT	(DSch)
HM01	10345	10-7	0600	Mon	i.p. 86674 48766 06624 10847 51777 14058	AM/RDFT	(AB-USA)
HM01	17480	8-7	2100	Sat	86673 48765 06623 10846 51776 14057. Normal transmission	AM/RDFT	(RL)
HM01	10715	12-7	2200	Wed	61901 10661 06627 06222 06221 07511	AM/RDFT	(Dan)
HM01	11462	13-7	0500	Thu	61901 10661 06627 06222 06221 07511	AM/RDFT	(AB)
HM01	11435	12-7	1600	Wed	61901 10661 06627 06222 06221 07511	AM/RDFT	(RR2)
HM01	11635	10-7	1830	Mon	86675 48767 06625 06221 51778 14059	AM/RDFT	(DSch)
HM01	11530	13-7	1658	Thu	Windows sound 61902 10661 06628 06223 06222 07512	AM/RDFT	(AB-USA)
HM01	11635	22-7	1758	Sat	90244 10669 72076 82852 82851 11582 (repeats groups of 21 July)	AM/RDFT	(AB-USA)
HM01	10354	14-7	0558	Fri	61902 10661 06628 06223 06222 07512	AM/RDFT	(AB)
HM01	11635	12-7	1840	Wed	i.p. 61901 10661 06627 06222 06221 07511	AM/RDFT	(DSch)
HM01	10860	10-7	0510	Mon	i.p. 86674 48766 06624 10847 51777 14058	AM/RDFT	(AB-USA)
HM01	11530	9-7	1729	Sun	86674 48766 06624 10847 51777 14058	AM/RDFT	(RR2)
HM01	16180	18-7	2058	Tue	90241 10662 72073 06228 02227 07517	AM/RDFT	(RL)
HM01	11435	17-7	1612	Mon	i.p. 61906 10665 72072 06227 06226 07516	AM/RDFT	(RR2)
HM01	11435	18-7	1600	Tue	Windows start up sounds and Windows sounds during transmission 90241 10666 72073 06228 06227 07517	AM/RDFT	(RR2)
HM01	11435	19-7	1556	Wed	Mixing with Radio Habana Cuba 90242 10667 72074 82851 06228 11581	AM/RDFT	(RR2)
HM01	10715	19-7	2200	Wed	90242 10667 72074 82851 06228 11581	AM/RDFT	(RR2)
HM01	10860	14-7	0503	Fri	61902 10661 06628 06223 06222 07512 Late start	AM/RDFT	(AB)
HM01	11635	1-7	0758	Sat	76127 48762 06621 10843 51773 14054 (repeating groups of 24 June)	AM/RDFT	(AB)
HM01	11435	16-7	1630	Sun	61905 10664 72071 06226 06225 07515	AM/RDFT	(RR2)
HM01	9065	16-7	0758	Sun	61900 48768 06626 06221 06221 07511 (repeats the groups of 11 July)	AM/RDFT	(AB)
HM01	9330	16-7	0658	Sun	61900 48768 06626 06221 06221	AM/RDFT	(AB)

					07511 (repeats the groups of 11 July)		
HM01	10345	16-7	0557	Sun	61900 48768 06626 06221 06221 07511 (repeats the groups of 11 July)	AM/RDFT	(AB)
HM01	16180	15-7	2057	Sat	61900 48768 06626 06221 06221 07511 (back to the groups of 11 July)	AM/RDFT	(RR2/RL)
HM01	11462	15-7	0458	Sat	61903 10662 06629 06224 06223 07513	AM/RDFT	(AB)
HM01	11435	15-7	1558	Sat	61900 48768 06626 06221 06221 07511	AM/RDFT	(DSch)
HM01	11635	19-7	1810	Wed	90242 10667 72074 82851 06228 11581	AM/RDFT	(DSch)
HM01	11435	30-7	1650	Sun	37634 80181 58105 02803 38301 27092	AM/RDFT	(DSch)
HM01	17480	15-7	2154	Sat	61900 48768 06626 06221 06221 07511 (groups of 11 July). Early start, interrupted at 2158z by Radio Havana Cuba, then back to HM01	AM/RDFT	(RL)
HM02	7761	25-7	0600	Tue	571 63 = 88866 27271 75674 ... 54050 19565 70710 = 571 63 571 63 = repeats message = 571 63 000	FSK-19.8bd/129Hz/ FSK-CW	(AB)
HM02	7761	30-7	0600	Sun	911 57 = 41333 84171 06322 ... 52632 52819 79331 = 911 57 911 57 = repeats message = 911 57 000	FSK-19.8bd/129Hz/ FSK-CW	(AB)
HM02	7761	29-7	0601	Sat	606 59 = 62357 98493 10125 ... 66043 87805 69229 = 606 59 606 59 = repeats message = 606 59 000	FSK-19.8bd/129Hz/ FSK-CW	(AB)
HM02	7761	31-7	0600	Mon	529 61 = 30381 03454 78668 ... 58753 60089 33456 = 529 61 529 61 = repeats message = 529 61 000	FSK-19.8bd/129Hz/ FSK-CW	(AB)
Jammer	18080	13-7	0700	Thu	Chinese jammer jamming the Sound of Hope from Taiwan	AM	(IARUMS)
Jammer	13735	10-7	1403	Mon	Vietnamese Siren Jammer		(ES)
M01	6435	29-7	1500	Sat	025 678 30 = = 41816 56236 45432 ... 26401 26571 02799 = = 678 30 000	CW	(MPJ)
M01	6435	22-7	1500	Sat	025 555455 30 30 = = 97866 00311 84779 ... 97102 62555 36016 = = 555455 30 30 000 many errors	MCW	(AB/MPJ)
M01	6435	1-7	1455	Sat	VVV	MCW	(AB)
M01	5280	20-7	1800	Thu	025 181 30 = = 16402 5.310 55433 ... 88856 56198 54957 = = 191 30 000	CW	(MPJ)
M01	4905	4-7	2000	Tue	025 218 218 30 30 = = 24751 49228 75579 ... 16240 2044 0774 8 = 218 218 30 30 000 errors	CW	(AB)
M01	6435	1-7	1500	Sat	025 547 547 30 30 = = 10444 15898 80361 ... 68941 10941 47168 = = 547 547 30 30 000	MCW	(AB/MPJ/ES)
M01	5280	11-7	1800	Tue	025 531 30 = = 67658 31046 78116 ... 41893 44695 93214 = = 531 30 000	CW	(MPJ)
M01	5280	13-7	1800	Thu	025 763 30 30 = = ..47. ... 52411 (into noise) ...79117 96347 69003 = = 763 30 000	CW	(MPJ)
M01	6780	23-7	0700	Sun	025 903 903 30 30 = = 61030 05726 29234 ... 55998 65506 89084 = = 903 903 30 30 000	CW	(AB)
M01	6435	8-7	1500	Sat	025 529 529 30 30 = = 53631 67266 11073 ... 41553 43984 26657 = 529 529 30 30 000	MCW	(AB/MPJ)
M01	5280	27-7	1800	Thu	025 213 30 = = 10545 45839 66357 ... 68129 9.129 ..541 = = 213 30 000	CW	(MPJ)
M01	5280	6-7	1800	Thu	025 129 30 18624 78929 09705 ...	CW	(ES)

					60087 86367 36837 129 30 000		
M01	5280	4-7	1800	Tue	025 797 30 = = 67430 45353 55597 ... 83344 86437 364737 (as sent) = = 797 30 000	CW	(MPJ)
M01	6780	30-7	0700	Sun	025 987 987 30 30 = = 42300 23390 59823 ... 27535 98260 15483 = = 987 987 30 30 000	CW	(AB)
M01	5820	25-7	1800	Tue	025 148 30 = = 26626 64099 38687 ... 89945 15844 26798 (36798) = = 148 30 000	CW	(MPJ)
M01a	4575	3-7	0837	Mon	i.p. 543 65953 543 65953 111 999 208 15 = 91149 40761 68862 ... 76818 22363 31280 = 208 15 111 4 0 0 83 111 911 49 111 911 49 111 000	CW	(ES-POL)
M01a	5347	13-7	1415	Thu	134 (x3) 20 160 (x2) 222 12 111 999 011 25 = 36557 96544 04541 ... 12345 85674 36557 = 011 25	CW	(ES)
M01a	5347	13-7	1328	Thu	111 999 010 25 = 12553 12798 34556 ... 75432 12345 45677 = 010 25 000 111 333 444 00 = 010 25	CW	(ES)
M01a	4922	13-7	1206	Thu	i.p. 333 01 020 020 3 (x2) 333 030 4 333 333 333 03 (Rx3) 111 000	CW	(ES)
M01a	4679	13-7	1136	Thu	i.p. 120 (x3) 96800 (x2) (Rx3) 120 (x3) 96744 (x2) (Rx9)	CW	(ES)
M01a	4849	12-7	1034	Wed	i.p. 4 111 999 178 10 = 10984 01654 86490 63249 80403 20198 65312 96845 10984 65310 = 178 10	CW	(ES)
M01a	5080	12-7	0916	Wed	i.p. 942 (x3) 629 40 (x2) Key down/Test tones 942 (x3) 620 50 (x2) (Rx3) 942 (x2) 5 123456789	CW	(ES)
M01a	5182	11-7	0906	Tue	i.p. 781 333 00 111 333 03 111 333 10 111 000 (x4)	CW	(ES)
M01a	5182	11-7	1051	Tue	i.p. 781 (x3) 3180 1 3180 1 (Rx9) 781 (x3) 31603 31603 7 817 (x3) 81316 033 180 17	CW	(ES)
M01a	5216	7-7	1206	Fri	i.p. 943 (x3) 111 (x3) (Rx11) 333 111 999 (Rx2) 217 10 = 24906 41324 09601 65740 96324 98564	CW	(ES)
M01a	5172	6-7	1534	Thu	i.p. 111 000	CW	(ES)
M01a	5789	5-7	0942	Wed	i.p. 635 (x3) 72380 (x2) (R3) 635 (x3) 000	CW	(ES)
M01a	5301	18-7	1606	Tue	i.p. 33103 26562 ... 67719 05110 23677 = 412 47 000 (pause) 111 000	CW	(MPJ)
M01a	5182	11-7	0924	Tue	862 (x5) 970 60 (Rx2) 970 60 862 (x4) 970 60 (x2) 862 (x2) 852 862 (x2) 970 60 (x2) 862 (x7)	CW	(ES)
M01b	5065	20-7	1942	Thu	936 721 32 = = 45230 79827 18857 ... 98569 08724 58700 = = 721 32 000 //5805 kHz	MCW	(MPJ)
M01b	5150	3-7	1915	Mon	858 721 721 32 32 = = 45230 79827 18857 ... 98569 08724 58700 721 721 32 32 = = 000 //5474 kHz	MCW	(AB/MPJ)
M01b	5075	7-7	1902	Fri	336 721 32 = = 45230 79827 18857 ... 98569 08724 58700 = = 721 32 000 //5465 kHz	MCW	(MPJ)
M01b	5465	7-7	1902	Fri	336 721 32 = = 45230 79827 18857 ... 98569 08724 58700 = = 721 32 000 //5075 kHz	MCW	(MPJ)
M01b	5095	27-7	1832	Thu	815 721 32 = = 45230 79827 18857 ... 98569 08724 58700 = = 721 32 000	MCW	(MPJ)

M01b	5475	10-7	1915	Mon	858 721 32 = = 45230 79827 18857 ... 98569 08724 58700 = = 721 32 000 //5150 kHz	MCW	(MPJ)
M01b	5150	10-7	1915	Mon	858 721 32 = = 45230 79827 18857 ... 98569 08724 58700 = = 721 32 000 //5475 kHz	MCW	(MPJ)
M01b	5735	10-7	1810	Mon	858 721 721 32 32 = = 45230 79827 18857 ... 98569 08724 58700 721 721 32 32 = = 000 //5125 kHz	MCW	(AB/MPJ)
M01b	5805	20-7	1942	Thu	936 721 32 = = 45230 79827 18857 ... 98569 08724 58700 = = 721 32 000 //5065 kHz	MCW	(MPJ)
M01b	5065	13-7	1942	Thu	936 721 32 = = 45230 79827 18857 ... 98569 08724 58700 = = 721 32 000 //5805 kHz	MCW	(MPJ)
M01b	5065	27-7	1942	Thu	936 721 32 = = 45230 79827 18857 ... 98569 08724 58700 = = 721 32 000 //5805 kHz	MCW	(MPJ)
M01b	5465	28-7	1902	Fri	336 721 32 = = 45230 79827 18857 ... 98569 08724 58700 = = 721 32 000 //5075 kHz	MCW	(MPJ)
M01b	5075	28-7	1902	Fri	336 721 32 = = 45230 79827 18857 ... 98569 08724 58700 = = 721 32 000 //5465 kHz	MCW	(MPJ)
M01b	5475	17-7	1915	Mon	858 721 32 = = 45230 79827 18857 ... 98569 08724 58700 = = 721 32 000 //5150 kHz	MCW	(MPJ)
M01b	5150	17-7	1915	Mon	858 721 32 = = 45230 79827 18857 ... 98569 08724 58700 = = 721 32 000 //5475 kHz	MCW	(MPJ)
M01b	5125	17-7	1810	Mon	364 721 721 32 32 = = 45230 79827 18857 ... 98569 08724 58700 721 721 32 32 = = 000 //5735 kHz	MCW	(MPJ)
M01b	5735	17-7	1810	Mon	364 721 721 32 32 = = 45230 79827 18857 ... 98569 08724 58700 721 721 32 32 = = 000 //5125 kHz	MCW	(MPJ)
M01b	5805	27-7	1942	Thu	936 721 32 = = 45230 79827 18857 ... 98569 08724 58700 = = 721 32 000 //5065 kHz	MCW	(MPJ)
M01b	5475	24-7	1915	Mon	858 7721 32 = = 45230 79827 18857 ... 98569 08724 58700 = = 721 32 000 //5150 kHz	MCW	(MPJ)
M01b	4895	14-7	2010	Fri	476 721 721 32 32 = = 45230 79827 18857 ... 98569 08724 58700 721 721 32 32 = = 000	MCW	(AB)
M01b	5340	14-7	2010	Fri	476 721 721 32 32 = = 45230 79827 18857 ... 98569 08724 58700 721 721 32 32 = = 000	MCW	(AB)
M01b	5465	21-7	1902	Fri	336 721 32 = = 45230 79827 18857 ... 98569 08724 58700 = = 721 32 000 //5075 kHz	MCW	(MPJ)
M01b	5075	21-7	1902	Fri	336 721 32 = = 45230 79827 18857 ... 98569 08724 58700 = = 721 32 000 //5465 kHz	MCW	(MPJ)
M01b	5125	24-7	1809	Mon	364 721 32 = = 45230 79827 18857 ... 98569 08724 58700 = = 721 32 000 //5735 kHz	MCW	(MPJ)
M01b	5735	24-7	1809	Mon	364 721 32 = = 45230 79827 18857 ... 98569 08724 58700 = = 721 32 000 //5125 kHz	MCW	(MPJ)

M01b	5125	10-7	1810	Mon	858 721 721 32 32 = = 45230 79827 18857 ... 98569 08724 58700 721 721 32 32 = = 000 //5735 kHz	MCW	(AB/MPJ)
M01b	5735	3-7	1810	Mon	364 721 32 = = 45230 79827 18857 ... 98569 08724 58700 721 721 32 32 = = 000 (as sent) //5125 kHz	MCW	(MPJ/ES)
M01b	5095	20-7	1832	Thu	815 721 32 = = 45230 79827 18857 ... 98569 08724 58700 = = 721 32 000	MCW	(MPJ)
M01b	5150	24-7	1915	Mon	858 7721 32 = = 45230 79827 18857 ... 98569 08724 58700 = = 721 32 000 //5475 kHz	MCW	(MPJ)
M01b	5125	3-7	1810	Mon	364 721 32 = = 45230 79827 18857 ... 98569 08724 58700 721 721 32 32 = = 000 (as sent) //5735 kHz	MCW	(MPJ/ES)
M01b	5075	14-7	1902	Fri	336 721 32 = = 45230 79827 18857 ... 98569 08724 58700 = = 721 32 000 //5465 kHz	MCW	(MPJ)
M01b	5465	14-7	1902	Fri	336 721 32 = = 45230 79827 18857 ... 98569 08724 58700 = = 721 32 000 //5075 kHz	MCW	(MPJ)
M01b	5760	13-7	1832	Thu	815 721 32 = = 45230 79827 18857 ... 98569 08724 58700 = = 721 32 000 //5095 kHz	MCW	(MPJ)
M01b	5095	13-7	1832	Thu	815 721 32 = = 45230 79827 18857 ... 98569 08724 58700 = = 721 32 000 //5760 kHz	MCW	(MPJ)
M01b	5805	13-7	1942	Thu	936 721 32 = = 45230 79827 18857 ... 98569 08724 58700 = = 721 32 000 //5065 kHz	MCW	(MPJ)
M01b	5475	3-7	1915	Mon	858 721 721 32 32 = = 45230 79827 18857 ... 98569 08724 58700 721 721 32 32 = = 000 //5150 kHz	MCW	(AB/MPJ)
M01b	5095	6-7	1843	Thu	Restarts: 815 721 32 = = 45230 79827 18857 ... 98569 08724 58700 = = 721 32 000 //5760 kHz	MCW	(MPJ/ES)
M01b	5095	6-7	1837	Thu	815 815 815 000. Late start //5760 kHz	MCW	(MPJ/ES)
M01b	5065	6-7	1942	Thu	936 721 32 = = 45230 79827 18857 ... 98569 08724 58700 = = 721 32 000 //5805 kHz	MCW	(MPJ)
M01b	5150	31-7	1816	Mon	i.p. 721 32 = = ... 45230 79827 18857 ... = = 721 32 000 //5475 kHz both trans- missions on the wrong frequency	MCW	(MPJ)
M01b	5805	6-7	1942	Thu	936 721 32 = = 45230 79827 18857 ... 98569 08724 58700 = = 721 32 000 //5065 kHz	MCW	(MPJ)
M01b	5760	6-7	1837	Thu	815 815 815 000. Late start //5095 kHz	MCW	(MPJ/ES)
M01b	5475	31-7	1816	Mon	i.p. 721 32 = = ... 45230 79827 18857 ... = = 721 32 000 //5150 kHz both trans- missions on the wrong frequency	MCW	(MPJ)
M01b	5760	6-7	1843	Thu	Restarts: 815 721 32 = = 45230 79827 18857 ... 98569 08724 58700 = = 721 32 000 //5095 kHz	MCW	(MPJ/ES)
M01b	5475	31-7	1915	Mon	858 721 32 = = same old msg = = 721 32 000 //5150 kHz	MCW	(MPJ)
M01b	5150	31-7	1915	Mon	858 721 32 = = same old msg = = 721 32 000 //5475 kHz	MCW	(MPJ)
M12	10617	8-7	0520	Sat	262 1 3737 153 58721 80868 01669 ... 97357 47836 87335 000 000	CW	(AB/ES)/HFD
M12	10617	15-7	0520	Sat	262 1 4475 67 59641 95708 37606 ... 35542 62606 70397 000 000	CW	(AB)

M12	16323	26-7	1950	Wed	395 395 395 000	CW	(AB/MPJ)
M12	13926	29-7	1310	Sat	919 1 4219 111 07034 93778 56757 ... 89689 15774 65601 000 000	CW	(AB/MPJ)
M12	13926	27-7	1310	Thu	919 1 4219 111 07034 93778 56757 ... 89689 15774 65601 000 000	CW	(AB/MPJ)
M12	7979	6-7	2120	Thu	398 1 398 3737 153 58721 80868 01669 ... 97357 47836 87335 000 000	CW	(AB)
M12	14923	26-7	2010	Wed	395 395 395 000	CW	(AB)
M12	15821	5-7	1400	Wed	892 1 5153 193 90036 87918 32550 ... 88423 98980 61214 000 000	CW	(AB/MPJ/ES/ HFD)
M12	14923	14-7	2010	Fri	395 395 395 000	CW	(AB)
M12	16323	14-7	1950	Fri	395 395 395 000	CW	(AB/MPJ)
M12	12217	8-7	0540	Sat	262 1 3737 153 58721 80868 01669 ... 97357 47836 87335 000 000	CW	(AB/ES/HFD)
M12	13921	10-7	1420	Mon	892 892 892 000	CW	(AB/MPJ/ES)
M12	9217	15-7	0500	Sat	262 1 4475 67 59641 95708 37606 ... 35542 62606 70397 000 000	CW	(AB)
M12	9379	6-7	2100	Thu	398 1 398 3737 153 58721 80868 01669 ... 97357 47836 87335 000 000	CW	(AB)
M12	14869	1-7	2110	Sat	851 851 851 000	CW	(ES/HFD)
M12	12221	5-7	1440	Wed	892 1 5153 193 90036 87918 32550 ... 88423 98980 61214 000 000	CW	(AB/MPJ/HF D)
M12	10926	29-7	1350	Sat	919 1 4219 111 07034 93778 56757 ... 89689 15774 65601 000 000	CW	(AB/MPJ)
M12	9217	8-7	0500	Sat	262 1 3737 153 58721 80868 01669 ... 97357 47836 87335 000 000	CW	(AB/ES/HFD)
M12	12126	29-7	1330	Sat	919 1 4219 111 07034 93778 56757 ... 89689 15774 65601 000 000	CW	(AB/MPJ)
M12	13921	5-7	1420	Wed	892 1 5153 193 90036 87918 32550 ... 88423 98980 61214 000 000	CW	(AB/MPJ/ES/ HFD)
M12	12221	19-7	1440	Wed	892 1 555 185 50062 12927 33044 ... 39279 73036 08188 000 000	CW	(AB/MPJ)
M12	14869	22-7	2110	Sat	851 1 1102 67 23041 06945 52128 ... 94895 89652 83501 000 000	CW	(AB)
M12	13381	24-7	2110	Mon	Tentative M12: 317 317 317 000	CW	(GNL)
M12	12217	15-7	0540	Sat	262 1 4475 67 59641 95708 37606 ... 35542 62606 70397 000 000	CW	(AB)
M12	7979	19-7	2120	Wed	398 398 398 000	CW	(AB)
M12	14869	8-7	2110	Sat	851 1 4403 101 11503 61508 01017 ... 49305 70923 09006 000 000	CW	(AB/ES)
M12	13926	15-7	1310	Sat	919 919 919 000	CW	(AB/MPJ)
M12	10617	22-7	0520	Sat	262 262 262 000	CW	(AB)
M12	9217	22-7	0500	Sat	262 262 262 000	CW	(AB)
M12	13569	8-7	2130	Sat	851 1 4403 101 11503 61508 01017 ... 49305 70923 09006 000 000	CW	(AB/ES)
M12	12126	20-7	1330	Thu	919 919 919 000	CW	(AB/MPJ)
M12	13926	20-7	1310	Thu	919 919 919 000	CW	(AB/MPJ)
M12	16323	19-7	1950	Wed	395 395 395 000	CW	(AB/MPJ)
M12	15821	3-7	1400	Mon	892 1 5153 193 90036 87918 32550 ... 88423 98980 61214 000 000	CW	(AB/MPJ/ES)
M12	13569	1-7	2130	Sat	851 851 851 000	CW	(ES/HFD)
M12	13921	19-7	1420	Wed	892 1 555 185 50062 12927 33044 ... 39279 73036 08188 000 000	CW	(AB/MPJ)
M12	16323	21-7	1950	Fri	395 395 395 000	CW	(MPJ)
M12	15821	19-7	1400	Wed	892 1 555 185 50062 12927 33044 ... 39279 73036 08188 000 000	CW	(AB/MPJ)
M12	12126	15-7	1330	Sat	919 919 919 000	CW	(AB/MPJ)
M12	10617	1-7	0520	Sat	262 262 262 000	CW	(AB/ES)
M12	9217	1-7	0500	Sat	262 262 262 000	CW	(AB/ES)
M12	12179	22-7	2150	Sat	851 1 1102 67 23041 06945 52128 ...	CW	(AB)

					94895 89652 83501 000 000		
M12	9379	19-7	2100	Wed	398 398 398 000	CW	(AB)
M12	13921	3-7	1420	Mon	892 1 5153 193 90036 87918 32550 ...	CW	(AB/MPJ/ES)
					88423 98980 61214 000 000		
M12	14923	19-7	2010	Wed	395 395 395 000	CW	(AB)
M12	9379	12-7	2100	Wed	398 1 4475 67 59641 95708 37606 ...	CW	(AB)
					35542 62606 70397 000 000		
M12	12179	8-7	2150	Sat	851 1 4403 101 11503 61508 01017 ...	CW	(AB/ES)
					49305 70923 09006 000 000		
M12	7979	26-7	2120	Wed	398 1 6501 119 00350 78760 39802 ...	CW	(AB)
					34885 65922 68197 000 000		
M12	14923	12-7	2010	Wed	395 395 395 000	CW	(AB)
M12	13926	22-7	1310	Sat	919 919 919 000	CW	(AB/MPJ)
M12	9176	24-7	1700	Mon	257 1 ...	CW	(HFD)
M12	6879	6-7	2140	Thu	398 1 398 3737 153 58721 80868	CW	(AB)
					01669 ... 97357 47836 87335 000 000		
M12	15821	17-7	1400	Mon	892 1 555 185 50062 12927 33044 ...	CW	(AB/MPJ)
					39279 73036 08188 000 000		
M12	12126	27-7	1330	Thu	919 1 4219 111 07034 93778 56757 ...	CW	(AB/MPJ)
					89689 15774 65601 000 000		
M12	13921	17-7	1420	Mon	892 1 555 185 50062 12927 33044 ...	CW	(AB/MPJ)
					39279 73036 08188 000 000		
M12	13921	12-7	1420	Wed	892 892 892 000	CW	(AB/MPJ)
M12	12217	29-7	0540	Sat	262 1 6501 119 00350 78760 39802 ...	CW	(AB)
					34885 65922 68197 000 000		
M12	12221	17-7	1440	Mon	892 1 555 185 50062 12927 33044 ...	CW	(AB/MPJ)
					39279 73036 08188 000 000		
M12	10926	6-7	1350	Thu	919 1 5547 85 68787 90786 55399 ...	CW	(AB/MPJ)
					43263 32414 68710 000 000		
M12	13569	29-7	2130	Sat	851 851 851 000	CW	(AB)
M12	14869	29-7	2110	Sat	851 851 851 000	CW	(AB)
M12	9217	29-7	0500	Sat	262 1 6501 119 00350 78760 39802 ...	CW	(AB)
					34885 65922 68197 000 000		
M12	7931	24-7	1720	Mon	257 1 ...	CW	(HFD)
M12	6904	24-7	1740	Mon	257 1 ...	CW	(HFD)
M12	12126	22-7	1330	Sat	919 919 919 000	CW	(AB/MPJ)
M12	10926	8-7	1350	Sat	919 1 5547 85 68787 90786 55399 ...	CW	(AB/MPJ/ES)
					43263 32414 68710 000 000		
M12	12126	8-7	1330	Sat	919 1 5547 85 68787 90786 55399 ...	CW	(AB/MPJ)
					43263 32414 68710 000 000		
M12	13926	8-7	1310	Sat	919 1 5547 85 68787 90786 55399 ...	CW	(AB/MPJ)
					43263 32414 68710 000 000		
M12	15821	12-7	1400	Wed	892 892 892 000	CW	(AB/MPJ)
M12	7979	12-7	2120	Wed	398 1 4475 67 59641 95708 37606 ...	CW	(AB)
					35542 62606 70397 000 000		
M12	6879	26-7	2140	Wed	398 1 6501 119 00350 78760 39802 ...	CW	(AB)
					34885 65922 68197 000 000		
M12	12126	13-7	1330	Thu	919 919 919 000	CW	(AB/MPJ/ES)
M12	13926	13-7	1310	Thu	919 919 919 000	CW	(AB/MPJ/RL-HOL/ES)
M12	9379	26-7	2100	Wed	398 1 6501 119 00350 78760 39802 ...	CW	(AB)
					34885 65922 68197 000 000		
M12	12221	3-7	1440	Mon	892 1 5153 193 90036 87918 32550 ...	CW	(AB/MPJ/ES)
					88423 98980 61214 000 000		
M12	10926	27-7	1350	Thu	919 1 4219 111 07034 93778 56757 ...	CW	(AB/MPJ)
					89689 15774 65601 000 000		
M12	13921	26-7	1420	Wed	892 892 892 000	CW	(AB/MPJ)
M12	15821	26-7	1400	Wed	892 892 892 000	CW	(AB/MPJ)
M12	13921	24-7	1420	Mon	892 892 892 000	CW	(AB/MPJ)
M12	6879	12-7	2140	Wed	398 1 4475 67 59641 95708 37606 ...	CW	(AB)

					35542 62606 70397 000 000		
M12	13926	1-7	1310	Sat	919 919 919 000	CW	(AB/MPJ/HF D)
M12	10617	29-7	0520	Sat	262 1 6501 119 00350 78760 39802 ... 34885 65922 68197 000 000	CW	(AB)
M12	13569	22-7	2130	Sat	851 1 1102 67 23041 06945 52128 ... 94895 89652 83501 000 000	CW	(AB)
M12	13926	6-7	1310	Thu	919 1 5547 85 68787 90786 55399 ... 43263 32414 68710 000 000	CW	(AB/MPJ)
M12	13921	31-7	1420	Mon	892 892 892 000	CW	(AB/MPJ)
M12	15821	10-7	1400	Mon	892 892 892 000	CW	(AB/MPJ/ES)
M12	12126	1-7	1330	Sat	919 919 919 000	CW	(AB/MPJ/HF D)
M12	15821	31-7	1400	Mon	892 892 892 000	CW	(AB/MPJ)
M12	12126	6-7	1330	Thu	919 1 5547 85 68787 90786 55399 ... 43263 32414 68710 000 000	CW	(AB/MPJ)
M12	16323	12-7	1950	Wed	395 395 395 000	CW	(AB)
M12	15821	24-7	1400	Mon	892 892 892 000	CW	(AB/MPJ)
M14	5560	1-7	0900	Sat	171 241 40 = = 34526 36452 73654 ... 18726 = = 241 40 00000	MCW	(MPJ)
M14	18041	31-7	0500	Mon	952 361 361 50 50 = = 88669 85393 87006 ... 52527 19896 05195 = = 361 361 50 50 00000	CW	(AB-J)
M14	7585	23-7	0600	Sun	382 382 382 00000	MCW	(AB/HFD)
M14	8162	23-7	0700	Sun	382 382 382 00000	MCW	(AB/HFD)
M14	5560	22-7	0900	Sat	171 027 027 45 45 45632 17653 ... 10956 37509 27843 027 027 45 45 00000	MCW	(AB-RUS)
M14	18041	27-7	0500	Thu	952 760 760 50 50 = = 46040 26297 95753 ... 99558 25760 29852 = = 760 760 50 50 00000	CW	(AB-J)
M14	18041	28-7	0500	Fri	952 848 848 60 60 = = 23581 70452 40576 ... 68096 32049 93875 = = 848 848 60 60 00000	CW	(AB-J)
M14	7480	7-7	1700	Fri	382 382 382 00000	MCW	(AB/MPJ)
M14	6897	7-7	1800	Fri	382 382 382 00000	MCW	(AB/MPJ)
M14	5240	23-7	2300	Sun	376 027 027 45 45 45632 17653 27362 ... 10956 37509 27843 027 027 45 45 00000	CW	(AB)
M14	5827	24-7	0000	Mon	376 027 027 45 45 45632 17653 27362 ... 10956 37509 27843 027 027 45 45 00000	CW	(AB)
M14	18041	24-7	0500	Mon	952 631 631 55 55 = = 04538 70933 27283 ... 37259 90292 56279 = = 631 631 55 55 00000	CW	(AB-J)
M14	18041	7-7	0500	Fri	952 301 301 55 55 = = 07393 23099 75497 ... 94849 11565 55671 = = 301 301 55 55 00000	CW	(AB-J)
M14	16347	10-7	0930	Mon	617 617 617 00000	CW	(AB/MPJ/ES)
M14	18041	26-7	0500	Wed	952 143 143 55 55 = = 30386 63957 86621 ... 04435 27632 52118 = = 143 143 55 55 00000	CW	(AB-J)
M14	18041	19-7	0500	Wed	952 408 408 60 60 = = 00520 05279 65442 ... 36602 36299 29590 = = 408 408 60 60 00000	CW	(AB-J)
M14	18041	11-7	0500	Tue	952 316 316 50 50 = = 89895 51424 33997 ... 43789 95301 65535 = = 316 316 50 50 00000	CW	(AB-J)
M14	18041	21-7	0500	Fri	952 840 840 50 50 = = 51047 57478 64490 ... 99433 38108 05045 = = 840	CW	(AB-J)

					840 50 50 00000		
M14	5357	4-7	1600	Tue	273 273 273 00000	MCW	(AB/MPJ)
M14	5560	8-7	0900	Sat	171 273 273 55 55 == 74653 26354 93746 ... 52132 48736 91023 == 273 273 55 55 00000	MCW	(AB-RUS)
M14	5430	8-7	0800	Sat	171 273 273 55 55 == 74653 26354 93746 ... 52132 48736 91023 == 273 273 55 55 00000	MCW	(AB-RUS)
M14	18041	17-7	0500	Mon	952 347 347 60 60 == 45991 96226 24662 ... 37835 52826 96870 == 347 347 60 60 00000	CW	(AB-J)
M14	6856	25-7	1820	Tue	163 273 273 55 55 == 74653 26354 93746 ... 52132 48736 91023 == 273 273 55 55 00000	MCW	(AB/MPJ)
M14	5240	16-7	2300	Sun	376 ...	CW	(AB)
M14	5430	22-7	0800	Sat	171 027 027 45 45 45632 17653 ... 10956 37509 27843 027 027 45 45 00000	MCW	(AB-RUS)
M14	5560	15-7	0900	Sat	171 025 30 34253 55648 75748 ... 25634 75624 70689 025 30 00000 (er- rors)	MCW	(MPJ)
M14	5938	12-7	1920	Wed	417 (3) 518 86 32498 53900 12865 ... 20943 57286 61220 518 86 00000	MCW	(MPJ)
M14	18041	13-7	0500	Thu	952 673 673 50 50 == 07525 03419 20662 ... 85532 67257 32055 == 673 673 50 50 00000	CW	(AB-J)
M14	5933	26-7	1920	Wed	417 273 273 55 55 == 74653 26354 93746 ... 52132 48736 91023 == 273 273 55 55 00000	MCW	(AB)
M14	6881	21-7	1800	Fri	382 382 382 00000	MCW	(AB)
M14	18041	5-7	0500	Wed	952 713 713 60 60 == 31651 40596 40718 ... 55514 50131 24274 == 713 713 60 60 00000	CW	(AB-J)
M14	18041	20-7	0500	Thu	952 637 637 60 60 == 77718 55440 04075 ... 35531 33404 95829 == 637 637 60 60 00000	CW	(AB-J)
M14	7479	21-7	1700	Fri	382 382 382 00000	MCW	(AB- RUS/MPJ)
M14	16347	25-7	0930	Tue	617 617 617 00000	CW	(AB)
M14	18041	3-7	0500	Mon	952 137 137 50 50 == 47432 31660 21374 ... 52179 15822 65672 == 137 130 S 50 50 00000	CW	(AB-J)
M14	18041	14-7	0500	Fri	952 180 180 50 50 == 27757 29282 88224 ... 37835 52826 96870 == 180 180 50 50 00000	CW	(AB-J)
M14	5363	18-7	1600	Tue	273 367 367 81 81 16230 40196 79437 ... 18063 53381 66189 367 367 81 81 00000	CW	(AB-POL)
M14	18041	4-7	0500	Tue	952 460 460 55 55 == 73056 41666 71572 ... 00925 28613 41118 == 460 460 55 55 00000	CW	(AB-J)
M14	6870	11-7	1820	Tue	163 2 518 518 86 86 32498 53900 12865 ... 20943 57286 61220 518 518 86 86 00000	MCW	(MPJ)
M14	18041	6-7	0500	Thu	952 864 864 50 50 == 27647 19975 54931 ... 48506 24944 92696 == 864 864 50 50 00000	CW	(AB-J)
M14	5251	9-7	2300	Sun	376 273 273 55 55 == 74653 26354 93746 ... 52132 48736 91023 == 273 273 55 55 00000	MCW	(AB)

M14	5825	10-7	0000	Mon	376 273 273 55 55 = = 74653 26354 93746 ... 52132 48736 91023 = = 273 273 55 55 00000	MCW	(AB)
M14	18041	10-7	0500	Mon	952 478 478 50 50 = = 66747 84178 36397 ... 44302 01593 47031 = = 478 478 50 50 00000	CW	(AB-J)
M23	5345	6-7	1536	Thu	i.p. 555	CW	(ES)
M23	9070	16-7	0805	Sun	Tentative M23 i.p. repeating 800. Ends at 0809 UTC	CW	(AB)
M23	5345	10-7	1226	Mon	i.p. 444	CW	(ES)
M23	5345	10-7	1203	Mon	i.p. 111	CW	(ES)
M23	5345	8-7	1537	Sat	i.p. 555	CW	(ES)
M23	9070	30-7	0800	Sun	Tentative M23 sending 800 (R8)	CW	(AB)
M23	5345	13-7	1530	Thu	222	CW	(ES)
M23	5345	12-7	1530	Wed	222	CW	(ES)
M23	5345	18-7	1530	Tue	555 (R15)	CW	(AB/MPJ)
M23	5345	18-7	1430	Tue	555 (R15)	CW	(AB/MPJ)
M23	5345	13-7	1430	Thu	222	CW	(ES)
M23	5345	11-7	1530	Tue	222	CW	(ES)
M32	5596	22-7	1938	Sat	230 28 22 2235 239 = ZBO 915 17389 56930 07873 ... 89038 05806 22025	CW	(AnEur)
M32	10858	19-7	0454	Wed	i.p. 593 50 = 40545 79539 34505 ... 99545 63143 7XXXX = 592 71 = etc.	CW	(AB)
M32	13964	13-7	0720	Thu	Russian mil. duplex net i.p. KHWV KHWV KHWV 600 13 13 1031 600 = 877 = 11111 73413 11070 42449 73829 11485 49141 83659 15039 46419 77798 13011 K	CW	(AB)
M32	12272	29-7	0548	Sat	PMYD PMYD PMYD DE PXN6 PXN6 563 34 29 0845 563 = ZHT 494 = 36217 19747 39542 ... 32720 29030 988 K	CW	(AB)
M32a	15586	26-7	0755	Wed	XXX XXX RJV RJV 94750 BASOGUL 0641 2858 K	CW	(WP3)
M32a	12464	26-7	0610	Wed	RAL65: Russian Navy Tanker Kama wkg RCV: Navy Sevastopol. rcv de ral65 qsl 724 qtc k	CW	(WP3)
M32a	15586	26-7	0755	Wed	XXX XXX RJV RJV 91182 KERNOchIFR 1609 5539 K	CW	(WP3)
M32a	15586	26-7	0755	Wed	XXX XXX RJV RJV 73777 WYHUHOLX 7953 1906 K	CW	(WP3)
M32a	15586	26-7	0755	Wed	XXX XXX RJV RJV 01147 WYSWIST 7180 0588 K	CW	(WP3)
M32a	15586	26-7	0755	Wed	XXX XXX RJV RJV 74041 ODNOLETKA 7691 2687 K	CW	(WP3)
M32a	15586	26-7	0755	Wed	XXX XXX RJV RJV 26595 NEUTESKLAD 4463 1276 K	CW	(WP3)
M32a	15586	26-7	0755	Wed	XXX XXX RJV RJV 08004 BASKOHL P 9532 6191 K	CW	(WP3)
M32a	15586	26-7	0755	Wed	XXX XXX RJV RJV 30176 MOZVEÍOK 0783 1709 K	CW	(WP3)
M32a	15586	26-7	0755	Wed	XXX XXX RJV RJV 71030 NEPOLNOTA 7125 1212 K	CW	(WP3)
M32a	15586	26-7	0755	Wed	XXX XXX RJV RJV 38188 MOÍENI E 5266 1220 K	CW	(WP3)
M32a	15586	26-7	0755	Wed	XXX XXX RJV RJV 81411 GONGOFRAK 6149 7585 K	CW	(WP3)
M32a	15586	26-7	0755	Wed	XXX XXX RJV RJV 54051 BOECONIL 6132 2257 K	CW	(WP3)
M32b	8816	25-7	0738	Tue	rjf94 rjc38 de 10616 qqm XLKE 0738 k	CW	(WP3)
M42	12154	10-7	1206	Mon	ROP ROP ROP QSY 16111 QSY 16111 BK	CW	(AB)

					BK ROP A QSA4 N R NIL K NIL SK SK		
M42	14543	6-7	0710	Thu	4646464646464646 RAU RAU RAU 2/607 followed by two messages. Headers: 11100 60070 24310 05013 03039 and 11100 60070 25413 05014 03049 QRU QRU SK SK	Baudot 75/500	(Danix)
M42	12158	6-7	0724	Thu	4646464646464646 RAU RAU RAU 2/607 followed by two messages. Headers: 11100 60070 24310 05013 03039 and 11100 60070 25413 05014 03049 QRU QRU SK SK	Baudot 75/500	(Danix)
M42b	7805	31-7	1201	Mon	SVTV de TJPZ QTC 1 NW NW = 746 25 31 1200 8572 = 08795 65308 79461 ... 87329 87538 29047 QRU QRU SK SK	CW	(F5JBR)
M89	5159	17-7	1524	Mon	i.p. CK 41 65 0717 2100 RMKS 6337 TO 6333 K	CW	JPL
M89	6793	23-7	0756	Sun	i.p. 8837/5/3166/3 AR UGT COMM = 458/8837/5/3166/3 AR V M8JF (x3) DE RIS9 (x2) //8060	CW	JPL
M89	6807	24-7	0826	Mon	i.p. QSY 14 QSY 14 K	CW	JPL
M89	6686	24-7	0827	Mon	i.p. 45T GV5 FF F NR 1413/EX 1634 = NR 1410/EX 1624 = WP/RE/8 AR Nr 1410/EX 1634 = WP/RE/8 AR QSY NR 29 QSY NR 29	CW	JPL
M89	6661	24-7	0906	Mon	i.p. VV 3KMJ DE VP4M K. R QSA 3 K. HR IEC = 5TGB C K	CW	JPL
M89	5643	24-7	0843	Mon	i.p. R R AS AS RPT 45W RPT 45W K. RPT 45W RPT 45W K	CW	JPL
M89	4767	24-7	0843	Mon	i.p. 436D T6A4 756. ...	CW	JPL
M89	10640	23-7	1120	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //6840	CW	JPL
M89	10178	23-7	1109	Sun	V FIK3 (x3) DE H4JH (x2) //6053 Note: // sending different R/S.	CW	JPL
M89	8060	23-7	0756	Sun	i.p. 8837/5/3166/3 AR UGT COMM = 458/8837/5/3166/3 AR V M8JF (x3) DE RIS9 (x2) //6793	CW	JPL
M89	6840	13-7	1020	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //10640	CW	JPL
M89	6793	23-7	1112	Sun	V M8JF (x3) DE RIS9 (x2) //3777 and 4532	CW	JPL
M89	10178	24-7	0753	Mon	V FIK3 (x3) DE H4JH (x2)	CW	JPL
M89	6053	23-7	1109	Sun	V GJHS (x3) DE 5GFD (x2) //10178 Note: // sending different R/S.	CW	JPL
M89	5367	23-7	1109	Sun	i.p. 3D34 73T3 TU6D D3T7 335N ...	CW	JPL
M89	5239	23-7	1109	Sun	i.p. R GA AS (Both stations on this freq) GA K. ... R RR 1P = DAU3 75D3 ...	CW	JPL
M89	4609	23-7	1527	Sun	V GJHS (x3) DE 5GFD (x2) //4060 Note: // sending different R/S.	CW	JPL
M89	4532	23-7	1112	Sun	V M8JF (x3) DE RIS9 (x2) //3777 and 6793	CW	JPL
M89	4060	23-7	1527	Sun	V GJHS (x3) DE 5GFD (x2) //4609 Note: // sending different R/S.	CW	JPL
M89	3777	23-7	1112	Sun	V M8JF (x3) DE RIS9 (x2) //4532 and 6793	CW	JPL
M89	3642	23-7	1123	Sun	V DKG6 (x3) DE 3A7D (x2)	CW	JPL
M89	6840	23-7	1120	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //10640	CW	JPL
M89	4609	25-7	1606	Tue	V FIK3 (x3) DE H4JH (x2) //4060 Note: // sending different R/S.	CW	JPL
M89	10178	25-7	0756	Tue	V FIK3 (x3) DE H4JH (x2) //N/H	CW	JPL

M89	8350	25-7	1130	Tue	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K (Hand sent) //7620	CW	JPL
M89	8060	25-7	1102	Tue	V M8JF (x3) DE RIS9 (x2) //3777 and 4532 and 6793	CW	JPL
M89	4609	17-7	1509	Mon	V FIK3 (x3) DE H4JH (x2)	CW	JPL
M89	7620	25-7	1130	Tue	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K //8350	CW	JPL
M89	6840	25-7	1120	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //10640	CW	JPL
M89	6793	25-7	1102	Tue	V M8JF (x3) DE RIS9 (x2) //3777 and 4532 and 8060	CW	JPL
M89	6793	25-7	0759	Tue	V M8JF (x3) DE RIS9 (x2) //8060	CW	JPL
M89	6817	24-7	0821	Mon	i.p. FF NR 1479/EX 1621 = K2N8/O0W5 AR NR 1479/EX 1621 = K2N8/O0W5 AR NR 1479/EX 1621 = K2N8/O0W5 AR QSY 13 QSY 13 VVV	CW	JPL
M89	5801	25-7	1058	Tue	V DKG6 (x3) DE 3A7D (x2) //10180	CW	JPL
M89	6840	24-7	0820	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //10640	CW	JPL
M89	4532	25-7	1102	Tue	V M8JF (x3) DE RIS9 (x2) //3777 and 6793 and 8060	CW	JPL
M89	4060	25-7	1606	Tue	V GJHS (x3) DE 5GFD (x2) //	CW	JPL
M89	3777	25-7	1102	Tue	V M8JF (x3) DE RIS9 (x2) //4532 and 6793 and 8060	CW	JPL
M89	3641	25-7	1610	Tue	i.p.	CW	JPL
M89	10861	24-7	0809	Mon	i.p. 4N3D U635 T4U7 3D5A 7DT5 U6N4 ... AR AR K. R QSL 1610 K. OK OK SK SK	CW	JPL
M89	10640	24-7	0820	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //6840	CW	JPL
M89	10183	24-7	0748	Mon	i.p. 3UTD 4DTU TN45 75NU ... AR K. R HR WK NR NR 546 K R HR 7G GA K	CW	JPL
M89	10180	24-7	0752	Mon	V DKG6 (x3) DE 3A7D (x2)	CW	JPL
M89	5150	22-7	1530	Sat	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K //4720	CW	JPL
M89	6053	25-7	1101	Tue	V GJHS (x3) DE 5GFD (x2) //10178 No-te: // sending different R/S.	CW	JPL
M89	4060	17-7	1455	Mon	V GJHS (x3) DE 5GFD (x2)	CW	JPL
M89	5725	22-7	1540	Sat	i.p. 4ANA D3N3 UD34 5D6U A3AU ... 3UTW ? 3 ? 3UTU N6N6 UNN7 7N37 ... AR HR WK 126 HR NIL 261 NIL SK	CW	JPL
M89	10180	17-7	1246	Mon	V DKG6 (x3) DE 3A7D (x2) //5801	CW	JPL
M89	8060	17-7	2237	Mon	V M8JF (x3) DE RIS9 (x2) //6793	CW	JPL
M89	6793	17-7	2237	Mon	V M8JF (x3) DE RIS9 (x2) //8060	CW	JPL
M89	5801	17-7	1246	Mon	V DKG6 (x3) DE 3A7D (x2) //10180	CW	JPL
M89	5177	17-7	1448	Mon	V JKDJ (x3) DE SLBC (x2)	CW	JPL
M89	5498	17-7	1530	Mon	i.p. RMKS 7392 TO 7397 K = 33N...	CW	JPL
M89	4876	17-7	1515	Mon	(i.p. RMKS 4147857 TO 3147861 = A4UT 3754 AUT5 TU37 ...	CW	JPL
M89	3777	19-7	1723	Wed	V M8JF (x3) DE RIS9 (x2) //4532	CW	JPL
M89	4131	17-7	2031	Mon	V JKDJ (x3) DE SLBC (x2)	CW	JPL
M89	4060	19-7	1725	Wed	V GJHS (x3) DE 5GFD (x2)	CW	JPL
M89	3833	17-7	1538	Mon	i.p. 210 RMKS 2231538 TO 2231524 K	CW	JPL
M89	3777	17-7	1450	Mon	V M8JF (x3) DE RIS9 (x2) //4532	CW	JPL
M89	3642	17-7	2030	Mon	V DKG6 (x3) DE 3A7D (x2)	CW	JPL
M89	10640	13-7	1020	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //6840	CW	JPL
M89	10180	13-7	1446	Thu	V DKG6 (x3) DE 3A7D (x2) //5801	CW	JPL
M89	10180	13-7	1010	Thu	V DKG6 (x3) DE 3A7D (x2)	CW	JPL
M89	10178	13-7	1016	Thu	V FIK3 (x3) DE H4JH (x2) //6053	CW	JPL
M89	8075	13-7	1132	Thu	i.p. UND5 56UT 7436 NT3A 74AD N465	CW	JPL

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M89	8060	13-7	1046	Thu	V M8JF (x3) DE RIS9 (x2) //3777 and 4532 and 6793 CW JPL
M89	4532	17-7	1450	Mon	V M8JF (x3) DE RIS9 (x2) //3777 CW JPL
M89	8060	21-7	0835	Fri	V M8JF (x3) DE RIS9 (x2) //6793 CW JPL
M89	10640	25-7	1120	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //6840 CW JPL
M89	4720	22-7	1530	Sat	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K //5150 CW JPL
M89	4609	22-7	1459	Sat	V FIK3 (x3) DE H4JH (x2) //4532 CW JPL
M89	4532	22-7	1501	Sat	V M8JF (x3) DE RIS9 (x2) //3777 CW JPL
M89	4316	22-7	1522	Sat	i.p. CY MSG NR 3582 CK 79 77 0723 2240 RMKS 3147860 3147862 = UAD3 64T7 6A74 57A3 7TN3 T673 5U3A U43T ... AR CW JPL
M89	4302	22-7	1519	Sat	i.p. 46DA 4TNA U56D T4DU N456 ... AR K. QSL ? K. R CW JPL
M89	4060	22-7	1459	Sat	V GJHS (x3) DE 5GFD (x2) //4609 CW JPL
M89	3777	22-7	1501	Sat	V M8JF (x3) DE RIS9 (x2) //4532 CW JPL
M89	3642	19-7	1717	Wed	V DKG6 (x3) DE 3A7D (x2) //7602 CW JPL
M89	10178	21-7	0834	Fri	V FIK3 (x3) DE H4JH (x2) //6053 CW JPL
M89	5273	22-7	1504	Sat	i.p. R HR RPT 48W = 4T7U AR OK GA CW JPL
M89	7602	21-7	1910	Fri	V DKG6 (x3) DE 3A7D (x2) //3642 CW JPL
M89	6793	21-7	0835	Fri	V M8JF (x3) DE RIS9 (x2) //8060 CW JPL
M89	6053	21-7	0834	Fri	V GJHS (x3) DE 5GFD (x2) //10178 CW JPL
M89	4609	21-7	1905	Fri	V FIK3 (x3) DE H4JH (x2) //4532 CW JPL
M89	4609	19-7	1743	Wed	V FIK3 (x3) DE H4JH (x2) CW JPL
M89	4532	19-7	1723	Wed	V M8JF (x3) DE RIS9 (x2) //3777 CW JPL
M89	4163	19-7	1730	Wed	i.p. 7444 4TTU K RPT 06W K CW JPL
M89	4128	19-7	1730	Wed	i.p. MSG NR 0435 CK 41 78 0730 0100 RMKS 2349 TO 2339 K K 01W = CW JPL
M89	4131	19-7	1719	Wed	V JKDJ (x3) DE SLBC (x2) CW JPL
M89	3642	22-7	1517	Sat	V DKG6 (x3) DE 3A7D (x2) CW JPL
M89	10640	27-7	0920	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //6840 CW JPL
M89	4203	29-7	1400	Sat	i.p. UDNA D3T4 5A6T A5T6 .46U 567U CW JPL
...					
M89	4609	27-7	1913	Thu	V FIK3 (x3) DE H4JH (x2) //4060) Note: // sending different R/S. CW JPL
M89	4652	27-7	1355	Thu	i.p. NR 2537 CK 61 54 0727 2150 RMKS 3211078 TO 3211075 K. A3U4 N567 NT56 D7A3 A3UT ... CW JPL
M89	4733	27-7	1359	Thu	i.p. N43A 65NA TU3D N5D3 NA3U R IEC = 8WF7 AR K. R OK HR WK NR 32110740 K. R HR MSG GA K CW JPL
M89	5110	27-7	1405	Thu	i.p. MSG GA K. 7G NR 4785 CK 62 37 0727 2159 RMKS 1826927 TO 1825921 K. = 3U64 5AD6 63NA U476 A65D ... CW JPL
M89	5118	27-7	1408	Thu	(i.p. 6ATU 5ADA 4DAN TT6A 3T65 ... CW JPL
M89	5452	27-7	1410	Thu	i.p. 4U6D N7U3 D57A 3D65 N45T ... CW JPL
M89	5479	27-7	1038	Thu	i.p. U47D NA47 364N ... AR MSG NR 2540 CK 61 36 0727 2100 RMKS 3211646 TO 3211641 = 5N4U 4A3. UD46 NUA4 ... CW JPL
M89	4532	27-7	1916	Thu	V M8JF (x3) DE RIS9 (x2) //3777 CW JPL
M89	10180	27-7	0921	Thu	V DKG6 (x3) DE 3A7D (x2) //N/H CW JPL
M89	4242	27-7	1919	Thu	TR2Q (x3) DE 5TUH V //3232 Note: Known R/S, but new frequency. CW JPL
M89	11182	27-7	1009	Thu	i.p. NUD7 DA6U 6UT5 53U4 ... AR K. NO K. GA QSL 1816 K. HR GA 7G NR 2.4 CK CW JPL

					61 68 0727 1750 RMKS 1826326 TO 1826324 HW GA =		
M89	3642	29-7	1338	Sat	V DKG6 (x3) DE 3A7D (x2) //7602	CW	JPL
M89	3777	29-7	1340	Sat	V M8JF (x3) DE RIS9 (x2) //4532	CW	JPL
M89	4060	29-7	1341	Sat	V GJHS (x3) DE 5GFD (x2) Note: // sen- ding different R/S //4609	CW	JPL
M89	4101	29-7	1352	Sat	i.p. NR 6248 CK 79 25 0729 2150 RMKS 8860949 TO 8860947 K. R = 4NWX A4U7 6TA4 U75T NTA3 ...	CW	JPL
M89	4123	29-7	1605	Sat	i.p. PXI1PXI JPXI JPXI FFF NR 1128/EX 006 =	CW	JPL
M89	4131	29-7	1350	Sat	V JKDJ (x3) DE SLBC (x2)	CW	JPL
M89	4163	29-7	1633	Sat	i.p. GB4S GB4S R IEC BT WA7V AR K. IEC = WA7V AR K (see N&O 238)	CW	JPL
M89	10178	25-7	1101	Tue	V FIK3 (x3) DE H4JH (x2) //6053 Note: // sending different R/S.	CW	JPL
M89	6840	27-7	0920	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //10640	CW	JPL
M89	10178	26-7	1036	Wed	V FIK3 (x3) DE H4JH (x2) //6053 Note: // sending different R/S.	CW	JPL
M89	4060	31-7	1155	Mon	V GJHS DE 5GFD	CW	(F5JBR-KOR)
M89	4609	31-7	1153	Mon	FIK3 de H4JH V	CW	(F5JBR-KOR)
M89	4392	26-7	1625	Wed	i.p. 5637 DU76 A56A 5UU3 AD4U TD6U ... AR = K 5P =	CW	JPL
M89	4532	26-7	1116	Wed	V M8JF (x3) DE RIS9 (x2) //3777	CW	JPL
M89	4609	25-7	1124	Tue	V FIK3 (x3) DE H4JH (x2) //4060 Note: // sending different R/S.	CW	JPL
M89	6053	26-7	1036	Wed	V GJHS (x3) DE 5GFD (x2) //10178 No- te: // sending different R/S.	CW	JPL
M89	6840	26-7	1120	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //10640	CW	JPL
M89	7602	26-7	1611	Wed	V DKG6 (x3) DE 3A7D (x2) //3642	CW	JPL
M89	4574	27-7	1353	Thu	i.p. TO 9210 K. R GA = N6AN 73TA U55A AN67 AA3D ...	CW	JPL
M89	8350	26-7	1130	Wed	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K //7620	CW	JPL
M89	4365	29-7	1404	Sat	i.p. N547 63TU DT5A DN5. AR K. R U 7G GA K K	CW	JPL
M89	10180	26-7	1034	Wed	V DKG6 (x3) DE 3A7D (x2)	CW	JPL
M89	10640	26-7	1120	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //6840	CW	JPL
M89	3232	27-7	1348	Thu	TR2Q (x3) DE 5TUH V Note: Known R/S, but new frequency.	CW	JPL
M89	3232	27-7	1919	Thu	TR2Q (x3) DE 5TUH V //4242	CW	JPL
M89	3240	27-7	1448	Thu	i.p. NR 4555 CK . 9 44 0727 2240 RMKS 3211470 TO 3211472 K R HR RPT NR 4555 K R = A7.N A64U 46T7 DAU7 ...	CW	JPL
M89	3269	27-7	1451	Thu	i.p. BT D747 4A7U 35T4 ADD6 ... AR R R R HR NIL SK GB K	CW	JPL
M89	3642	27-7	1444	Thu	V DKG6 (x3) DE 3A7D (x2)	CW	JPL
M89	3777	27-7	1916	Thu	V M8JF (x3) DE RIS9 (x2) //4532	CW	JPL
M89	4060	27-7	1913	Thu	V GJHS (x3) DE 5GFD (x2) //4609 Note: // sending different R/S.	CW	JPL
M89	7620	26-7	1130	Wed	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K //8350	CW	JPL
M89	4173	26-7	1650	Wed	i.p. R CY 4L QSL . K. DE 2ILS QSL ? K. C QSL ? K. M2DY DE 2ILS QSL ? K	CW	JPL
M89	4191	29-7	1402	Sat	i.p. T6NA T4D3 T7AA ...	CW	JPL
M89	4532	30-7	1648	Sun	V M8JF (x3) DE RIS9 (x2) //3777	CW	JPL
M89	4609	30-7	1651	Sun	V FIK3 (x3) DE H4JH (x2) Note: // sen-	CW	JPL

					ding different R/S. // in tfc //4060		
M89	7602	30-7	1646	Sun	V DKG6 (x3) DE 3A7D (x2) //3642	CW	JPL
M89	6053	31-7	0759	Mon	V GJHS (x3) DE 5GFD (x2) Note: // sending different R/S //10178 kHz	CW	JPL
M89	6793	31-7	0755	Mon	V M8JF (x3) DE RIS9 (x2) //8060	CW	JPL
M89	8060	31-7	0755	Mon	V M8JF (x3) DE RIS9 (x2) //6793	CW	JPL
M89	10178	31-7	0759	Mon	V FIK3 (x3) DE H4JH (x2) Note: // sending different R/S //6053	CW	JPL
M89	3777	30-7	1648	Sun	V M8JF (x3) DE RIS9 (x2) //4532	CW	JPL
M89	4229	26-7	1620	Wed	i.p. NR 17/114 ... = AF3/ST QSA QSY 1. VVV FF NR 1718/EX 0021 = L6K4/B3M9 AR QSY 16 QSY 16 QSY 16 VVV	CW	JPL
M89	3642	30-7	1646	Sun	V DKG6 (x3) DE 3A7D (x2) //7602	CW	JPL
M89	4163	26-7	1643	Wed	i.p. R R CQ F GA U5CB /S7M0 NR 1721/EX 0043 RMKS CQ = 5C./V.M0	CW	JPL
M89	4131	26-7	1615	Wed	V JKD J (x3) DE SLBC (x2)	CW	JPL
M89	4128	26-7	1637	Wed	i.p. R R IEC = IU73 K. R R HR WK NR 2075 K. R R 4WTW DE HUB5 K	CW	JPL
M89	4123	26-7	1630	Wed	i.p. IEC IEC = WQIU AR K. C IEC BT WQ.. AR K. N HR WK NR 5015 K. N U VV SD5R SD5R DE 6FDV K	CW	JPL
M89	4073	26-7	1618	Wed	i.p. FF NR 1715 0005 = 8NC0 AR FFF/1070/Z O8I4/8NC0 AR QSY 3 QSY 3 VVV	CW	JPL
M89	4060	26-7	1124	Wed	V GJHS (x3) DE 5GFD (x2)	CW	JPL
M89	3777	26-7	1116	Wed	V M8JF (x3) DE RIS9 (x2) //4532	CW	JPL
M89	3642	26-7	1611	Wed	V DKG6 (x3) DE 3A7D (x2) //7602	CW	JPL
M89	7602	25-7	1930	Tue	V DKG6 (x3) DE 3A7D (x2)	CW	JPL
M89	4246	26-7	1623	Wed	i.p. /XJS0 NR 1716/EX 0027 = LHC9/XJS0 AR. F NR 1716/EX 0027 = LHC9/XJS0 AR	CW	JPL
M89	6793	29-7	0608	Sat	V M8JF (x3) DE RIS9 (x2) //8060	CW	JPL
M89	4372	29-7	1406	Sat	i.p. ER R BT BT 3N7U 8576 A5NU ...	CW	JPL
M89	4388	29-7	1407	Sat	i.p. 763A U73N 356D 7653 DA56 ...	CW	JPL
M89	4507	29-7	1624	Sat	i.p. VVV 08F DE 7MG QSA ? QSY 26 K	CW	JPL
M89	4532	29-7	1340	Sat	V M8JF (x3) DE RIS9 (x2) //3777	CW	JPL
M89	4609	29-7	1341	Sat	V FIK3 (x3) DE H4JH (x2) Note: // sending different R/S //4060	CW	JPL
M89	4609	29-7	1616	Sat	i.p. NR 1130/EX = (Sending on top of H4JH)	CW	JPL
M89	4623	29-7	1344	Sat	i.p. 5A6N T473 5NT3 3D5A 7N43 ...	CW	JPL
M89	5011	29-7	1616	Sat	i.p. PT34/GZ4, AR NR 1155/EX 0015 = PT34/GZ49 AR QSY 19 QSY 19 VKV	CW	JPL
M89	4060	30-7	1651	Sun	V GJHS (x3) DE 5GFD (x2) Note: // sending different R/S. In tfc. Normally both frequencies in tfc at the same time //4609	CW	JPL
M89	6053	29-7	0611	Sat	V GJHS (x3) DE 5GFD (x2) Note: // sending different R/S //10178	CW	JPL
M89	10180	25-7	1058	Tue	V DKG6 (x3) DE 3A7D (x2) //5801	CW	JPL
M89	6840	29-7	0620	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) (Machine sent) //10640	CW	JPL
M89	6840	29-7	1020	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) (Machine sent) //10640	CW	JPL
M89	7602	29-7	1338	Sat	V DKG6 (x3) DE 3A7D (x2) //3642	CW	JPL
M89	8060	29-7	0608	Sat	V M8JF (x3) DE RIS9 (x2) //6793	CW	JPL
M89	10178	29-7	0611	Sat	V FIK3 (x3) DE H4JH (x2) Note: // sending different R/S //6053	CW	JPL
M89	10180	29-7	1026	Sat	V DKG6 (x3) DE 3A7D (x2)	CW	JPL

M89	10316	29-7	1021	Sat	3A7D i.p. D7A4 5473 437N 67T5 5AU6 3DTA ...	CW	JPL
M89	10640	29-7	0620	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) (Machine sent) //6840	CW	JPL
M89	10640	29-7	0100	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) (Machine sent) //6840	CW	JPL
M89	5094	29-7	1408	Sat	i.p. DE XDJ2 QSA ZK ZVL. DE XDJ2 QSA ? K. 2VKN DE XDJ2 QSA ? K	CW	JPL
M89	7602	20-7	0004	Thu	V DKG6 (x3) DE 3A7D (x2) //3642	CW	JPL
M89	4532	21-7	1351	Fri	V M8JF (x3) DE RIS9 (x2) //3777	CW	JPL
M89	4060	21-7	1905	Fri	V GJHS (x3) DE 5GFD (x2) //4609	CW	JPL
M89	3777	21-7	1351	Fri	V M8JF (x3) DE RIS9 (x2) //4532	CW	JPL
M89	3642	21-7	1910	Fri	V DKG6 (x3) DE 3A7D (x2) //7602	CW	JPL
M89	10440	20-7	0921	Thu	i.p. 6UTN 74TU T7TA 5333 757T AR OK R K. QSL 1725 OK	CW	JPL
M89	10394	20-7	0918	Thu	i.p. RMKS 3147629 TO 3147626 K. U5DN .75A A.7N 664D D....	CW	JPL
M89	10180	20-7	0850	Thu	V DKG6 (x3) DE 3A7D (x2)	CW	JPL
M89	10178	20-7	0906	Thu	V FIK3 (x3) DE H4JH (x2) //6053	CW	JPL
M89	8861	20-7	0911	Thu	i.p. 56NA A37A AN34 T3UD ANT4 ... AR K. R GA	CW	JPL
M89	8794	20-7	0857	Thu	i.p. AR K. HR WK NR 5655 5900 ... HR WK NR AR K	CW	JPL
M89	8060	20-7	0903	Thu	V M8JF (x3) DE RIS9 (x2) //6793	CW	JPL
M89	3642	12-7	1819	Wed	V DKG6 (x3) DE 3A7D (x2) //7602	CW	JPL
M89	7602	20-7	1531	Thu	V DKG6 (x3) DE 3A7D (x2) //3642	CW	JPL
M89	10178	20-7	0009	Thu	V FIK3 (x3) DE H4JH (x2) //6053	CW	JPL
M89	6793	20-7	0903	Thu	V M8JF (x3) DE RIS9 (x2) //8060	CW	JPL
M89	6061	20-7	0028	Thu	i.p. 0827 = PJ2/Q47M AR GB SK. Appears to be Exercise message	CW	JPL
M89	6053	20-7	0906	Thu	V GJHS (x3) DE 5GFD (x2) //10178	CW	JPL
M89	6053	20-7	0007	Thu	V GJHS (x3) DE 5GFD (x2) //10178	CW	JPL
M89	3642	20-7	1531	Thu	V DKG6 (x3) DE 3A7D (x2) //7602	CW	JPL
M89	3642	20-7	0004	Thu	V DKG6 (x3) DE 3A7D (x2) //7602	CW	JPL
M89	7602	19-7	1717	Wed	V DKG6 (x3) DE 3A7D (x2) //3642	CW	JPL
M89	6840	19-7	1720	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //4860	CW	JPL
M89	4950	19-7	1747	Wed	i.p. 4537 A36U A3DU N576 ...	CW	JPL
M89	4860	19-7	1720	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //6840	CW	JPL
M89	6793	13-7	1046	Thu	V M8JF (x3) DE RIS9 (x2) //3777 and 4532 and 8060	CW	JPL
M89	8060	25-7	0759	Tue	V M8JF (x3) DE RIS9 (x2) //6793	CW	JPL
M89	8060	20-7	0015	Thu	V M8JF (x3) DE RIS9 (x2)	CW	JPL
M89	4609	12-7	2321	Wed	V FIK3 (x3) DE H4JH (x2)	CW	JPL
M89	4131	13-7	1448	Thu	V JKDJ (x3) DE SLBC (x2)	CW	JPL
M89	3777	13-7	1046	Thu	V M8JF (x3) DE RIS9 (x2) //4532 and 6793 and 8060	CW	JPL
M89	8060	12-7	2319	Wed	V M8JF (x3) DE RIS9 (x2) //6793	CW	JPL
M89	4532	13-7	1046	Thu	V M8JF (x3) DE RIS9 (x2) //3777 and 6793 and 8060	CW	JPL
M89	5038	13-7	1451	Thu	i.p. 567D NT45 67DN TAU3 3457 D3N5 ...	CW	JPL
M89	5678	13-7	1455	Thu	4A67 ATN5 456N 5TUD NDU A UTDA 65A7 ...	CW	JPL
M89	5679	13-7	1513	Thu	RHRF GA K. R HR F GA F NR 5048/EX 2303 RMKS 2135946 TO 2135941 =	CW	JPL
M89	7602	12-7	1819	Wed	V DKG6 (x3) DE 3A7D (x2) //3642	CW	JPL
M89	6840	12-7	1820	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //486	CW	JPL

M89	6793	12-7	2319	Wed	V M8JF (x3) DE RIS9 (x2) //8060	CW	JPL
M89	4860	12-7	1820	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //6840	CW	JPL
M89	4720	12-7	1830	Wed	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K	CW	JPL
M89	4609	12-7	1837	Wed	V FIK3 (x3) DE H4JH (x2)	CW	JPL
M89	5801	13-7	1446	Thu	V DKG6 (x3) DE 3A7D (x2) //10180	CW	JPL
M89	3777	12-7	1829	Wed	V M8JF (x3) DE RIS9 (x2) //4532	CW	JPL
M89	4532	12-7	1829	Wed	V M8JF (x3) DE RIS9 (x2) //3777	CW	JPL
M89	4060	12-7	2315	Wed	V GJHS (x3) DE 5GFD (x2)	CW	JPL
M89	6053	13-7	1016	Thu	V FIK3 (x3) DE H4JH (x2) //10178	CW	JPL
M89	10642	26-7	1044	Wed	i.p. VVV LMQP (x3) DE WZNC (x3) BT YR NR 15 MSG QSL TIME 1826 AR	CW	(JPL-NZL)
M89	4060	12-7	1825	Wed	V GJHS (x3) DE 5GFD (x2)	CW	JPL
M95	8073	25-7	0013	Tue	XSV85 i.p. 3D6 4DT 4D4 TUU 773 354 ... AR A HR MSG GA NR 0613 CK 58 35 0725 0715 = //4364 kHz	CW	(JPL-CHN)
M95	8073	25-7	1138	Tue	V BNGC (x3) DE XSV85 (x2) HR MSGS GA PSE CY NR 0615 CK 280 35 0725 1543 = 3U6 3AN 3U7 TAA 773 ... //4364 kHz	CW	(JPL-NZL)
M95	8073	13-7	1130	Thu	V BNGC (x3) DE XSV85 (x2) HR 7GS PSE CY NR 0556 CK 44 35 0713 1553 = TT. N5U TA3 N53 ...	CW	(JPL-NZL)
M95	4364	25-7	0013	Tue	XSV85 i.p. 3D6 4DT 4D4 TUU 773 354 ... AR A HR MSG GA NR 0613 CK 58 35 0725 0715 = //8073 kHz	CW	(JPL-CHN)
M95	4364	25-7	1138	Tue	V BNGC (x3) DE XSV85 (x2) HR MSGS GA PSE CY NR 0615 CK 280 35 0725 1543 = 3U6 3AN 3U7 TAA 773 ... //8073 kHz	CW	(JPL-NZL)
M95	4243	13-7	1147	Thu	HR MSG TO YR PSE CY NR 013 19 35 0713 1457 = 5TD UTT TA3 3UT 53A ... //9054 kHz	CW	(JPL-NZL)
M95	9054	13-7	1147	Thu	HR MSG TO YR PSE CY NR 013 19 35 0713 1457 = 5TD UTT TA3 3UT 53A ... //4243 kHz	CW	(JPL-NZL)
M95	9054	25-7	1145	Tue	VV HR 7G TO YR PSE CY NR 037 CK 20 35 0725 1445 = 5TD UTT TU5 3U6 3A4 ... //4243 kHz	CW	(JPL-NZL)
M95	4243	25-7	1145	Tue	VV HR 7G TO YR PSE CY NR 037 CK 20 35 0725 1445 = 5TD UTT TU5 3U6 3A4 ... //9054 kHz	CW	(JPL-NZL)
MX	10871.8	11-7	1230	Tue	Beacon P, Kaliningrad	CW	(ES)
MX	10871.8	10-7	0953	Mon	Beacon P, Kaliningrad	CW	(ES)
MX	5154	24-7	1905	Mon	Beacon C, Moscow	CW	(MPJ)
MX	8495.2	14-7	1541	Fri	Beacon F, Vladivostok	CW	(AB-J)
MX	8495.1	14-7	1541	Fri	Beacon A, Astrakhan	CW	(AB-J)
MX	13528.4	30-7	0659	Sun	Beacon M, Magadan	CW	(AB)
MX	7039.4	14-7	1541	Fri	Beacon M, Magadan	CW	(AB-J)
MX	13528.2	30-7	0659	Sun	Beacon F, Vladivostok	CW	(AB)
MX	13528.2	14-7	1542	Fri	Beacon F, Vladivostok	CW	(AB-J)
MX	11628	1-7	0724	Sat	Beacon C, Moscow //10872 kHz	CW	(AB)
MX	10872.1	14-7	1542	Fri	Beacon A, Astrakhan	CW	(AB-J)
MX	11628	2-7	0724	Sun	Beacon C	CW	(Phi)
MX	8821	4-7	1000	Tue	Marker S	CW	(ES-POL)
MX	8821	4-7	0930	Tue	Marker S	CW	(ES-POL)
MX	5153.7	24-7	1904	Mon	Beacon D, Sevastopol	CW	(MPJ)
MX	10871.8	13-7	1205	Thu	Beacon P, Kaliningrad	CW	(ES)
MX	13528.4	14-7	1542	Fri	Beacon M, Magadan	CW	(AB-J)

MX	4150	1-7	1750	Sat	Beacon V	CW	(ES-POL)
MX	8495.4	14-7	1541	Fri	Beacon M, Magadan	CW	(AB-J)
MX	10872	1-7	0724	Sat	Beacon C, Moscow //11628 kHz	CW	(AB)
MX	7509.1	14-7	1541	Fri	Beacon A, Astrakhan	CW	(AB-J)
MX	7039.2	14-7	1541	Fri	Beacon F, Vladivostok	CW	(AB-J)
MX	8821	4-7	0900	Tue	Marker S	CW	(ES-POL)
MX	16332.1	14-7	1542	Fri	Beacon A, Astrakhan	CW	(AB-J)
MX	16332.2	14-7	1542	Fri	Beacon F, Vladivostok	CW	(AB-J)
MX	4150	3-7	1847	Mon	Beacon V	CW	(ES-POL)
MX	5156.8	17-7	1842	Mon	Beacon L, Sankt Peterburg	CW	(MPJ)
MX	10871.9	13-7	1205	Thu	Beacon S, Sevoromorsk	CW	(ES)
MX	4150	6-7	1910	Thu	Beacon V	CW	(ES)
MX	5153.9	24-7	1905	Mon	Beacon S, Severomorsk	CW	(MPJ)
MX	5620	13-7	1454	Thu	Beacon V	CW	(JPL-Sib)
MX	13527.9	8-7	1604	Sat	Beacon S, Sevoromorsk	CW	(ES)
MX	5094	6-7	1915	Thu	Beacon V	CW	(ES)
MX	5153.8	24-7	1905	Mon	Beacon P, Kaliningrad	CW	(MPJ)
MX	5094	8-7	1841	Sat	Beacon V	CW	(ES)
MX	5153.7	17-7	1843	Mon	Beacon D, Sevastopol	CW	(MPJ)
MX	8497.8	24-7	1935	Mon	Beacon V	CW	(GNL)
MX	4150	8-7	1840	Sat	Beacon V	CW	(ES)
MX	5094	24-7	2120	Mon	Beacon V	CW	(GNL)
Q26	3657.5	21-7	1355	Fri	Messages	4+4 QPSK 75/3000 LSB	(JPL-KOR)
Q26	6666	24-7	0854	Mon	Messages	4+4 QPSK 75/3000 LSB	(JPL-CHN)
Q26	4243	25-7	1143	Tue	Messages //9054 kHz	4+4 QPSK 75/3000 LSB	(JPL-CHN)
Q26	9054	25-7	1143	Tue	Messages //4243 kHz	4+4 QPSK 75/3000 LSB	(JPL-CHN)
Q26	8073	13-7	1131	Thu	Messages	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	8333.6	13-7	1033	Thu	Messages	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	4364	25-7	1137	Tue	Messages //8073 kHz	4+4 QPSK 75/3000 LSB	(JPL-CHN)
Q26	8073	25-7	1137	Tue	Messages //4364 kHz	4+4 QPSK 75/3000 LSB	(JPL-CHN)
Q26	7110	15-7	1311	Sat	Messages	4+4 QPSK 75/3000 LSB	(Phi-J)
RNv	8439	1-7	1323	Sat	Greyder w/Defeder QSL's for msg # 237 then asks if Defeder has msgs: 2646, 2647, 2648, 2665, 2667, 2670, 2671, 2672, 2674, 2742, & 2741	USB	(RP-JA)
RNv	8439	1-7	1334	Sat	Prikof calling Antonya (unid Pacific Fleet entity) & Nad'ezhda (unid Pacific Fleet entity) w/no response	USB	(RP-JA)
RNv	8439	1-7	1402	Sat	Prikof w/Bel'yak passing 5-number group msgs	USB	(RP-JA)
S06	15875	21-7	0830	Fri	842 715 32 49048 41274 94533 ... 69681 61154 03294 715 32 00000	USB	(AB)
S06	9943	7-7	2000	Fri	514 514 514 00000	USB	(AB)
S06	15875	20-7	0830	Thu	842 715 32 49048 41274 94533 ... 69681 61154 03294 715 32 00000	USB	(AB)
S06	15721	3-7	0400	Mon	480 532 60 50185 24139 76907 ... 53546 78600 34310 532 60 00000	USB	(AB-J)
S06	13469	20-7	0930	Thu	842 715 32 49048 41274 94533 ... 69681 61154 03294 715 32 00000	USB	(AB)
S06	7951	7-7	2100	Fri	514 514 514 00000	USB	(AB)
S06	13469	14-7	0930	Fri	842 via GT Hongkong	USB	(HFD-HK)

S06	10755	6-7	1301	Thu	i.p. 975 ...	USB	(ES)
S06	9463	5-7	1039	Wed	i.p. 03228 48275 46978 ... 20171 15713 80963 739 52 00000	USB	(ES)
S06	5931	1-7	2000	Sat	913 913 913 00000	USB	(AB)
S06	5931	15-7	2000	Sat	913 913 913 00000	USB	(AB)
S06	6801	15-7	1900	Sat	913 913 913 00000	USB	(AB)
S06	9463	12-7	1020	Wed	Test transmission: 801 492 50 85815 75674 56788 ... 07411 00599 73266 492 50 00000 Errors	USB	(qsr711/PW 2/ES)
S06	13469	28-7	0930	Fri	842 609 33 96038 13754 81617 ... 55653 82747 19919 609 33 00000	USB	(AB-AUT)
S06	13469	21-7	0930	Fri	842 715 32 49048 41274 94533 ... 69681 61154 03294 715 32 00000	USB	(AB)
S06	10755	4-7	0830	Tue	975 368 51 50821 42306 ... 52130 50289 73409 368 51 00000	USB	(ES)
S06	15875	14-7	0830	Fri	842 906 31 92031 via GT Ho	USB	(HFD-HK)
S06	6801	1-7	1900	Sat	913 913 913 00000	USB	(AB/ES)
S06	15875	28-7	0830	Fri	842 609 33 96038 13754 81617 ... 55653 82747 19919 609 33 00000	USB	(AB)
S06	7951	21-7	2100	Fri	514 514 514 00000	USB	(AB/HFD)
S06s	12165	10-7	1210	Mon	831 259 6 31467 53368 83168 98998 23201 86660 259 6 00000	USB	(AB/MPJ)
S06s	4820	18-7	1000	Tue	893 205 6 46779 09123 18495 71851 35407 95075 205 6 00000	USB	(AB-AUT)
S06s	5660	18-7	1010	Tue	893 205 6 46779 09123 18495 71851 35407 95075 205 6 00000	USB	(AB- AUT/MPJ- AUT)
S06s	16020	5-7	1010	Wed	729 461 5 32214 34896 82738 36376 35685 461 5 00000	USB	(AB/MPJ)
S06s	6810	18-7	1100	Tue	754 206 8 48756 14610 94619 67949 06475 40400 83726 95993 206 8 00000	USB	(AB-AUT)
S06s	6766	18-7	1500	Tue	Time signal before the transmission 537 908 6 16216 57859 17913 45084 17782 27700 908 6 00000	USB	(AB-AUT)
S06s	7744	18-7	1510	Tue	537 908 6 16216 57859 17913 45084 17782 27700 908 6 00000	USB	(AB-AUT)
S06s	10290	21-7	0930	Fri	516 943 7 84217 43043 38367 33406 42366 37868 46793 943 7 00000	USB	(AB/MPJ)
S06s	9655	21-7	0940	Fri	516 943 7 84217 43043 38367 33406 42366 37868 46793 943 7 00000	USB	(AB/MPJ)
S06s	7744	25-7	1510	Tue	537 908 6 16216 57859 17913 45084 17782 27700 908 6 00000	USB	(AB-HNG)
S06s	6766	25-7	1500	Tue	537 908 6 16216 57859 17913 45084 17782 27700 908 6 00000	USB	(AB-HNG)
S06s	7560	18-7	1110	Tue	754 206 8 48756 14610 94619 67949 06475 40400 83726 95993 206 8 00000	USB	(AB-AUT)
S06s	9353	10-7	0840	Mon	371 840 5 78637 56540 39895 07619 75292 840 5 00000	USB	(AB)
S06s	14835	10-7	0910	Mon	872 915 6 20205 64336 95534 08446 87636 04475 915 6 00000	USB	(AB)
S06s	16380	10-7	0900	Mon	872 915 6 20205 64336 95534 08446 87636 04475 915 6 00000	USB	(AB/ES)
S06s	14373	4-7	0800	Tue	352 861 7 47154 25660 69885 96882 30034 19804 96845 861 7 000000	USB	(AB/ES)
S06s	12935	4-7	0810	Tue	352 861 7 47154 25660 69885 96882 30034 19804 96845 861 7 000000	USB	(AB)
S06s	7161	14-7	0910	Fri	624 913 5 11749 70552 56936 57989 05371 913 5 00000	USB	(AB)
S06s	7161	21-7	0910	Fri	624 978 5 42149 46198 36148 34433 36420 978 5 00000	USB	(AB/MPJ)

S06s	8221	10-7	0830	Mon	371 840 5 78637 56540 39895 07619 75292 840 5 00000	USB	(AB-HNG)
S06s	10290	14-7	0930	Fri	516 480 7 65850 49884 66485 41299 81177 35685 36376 480 7 00000	USB	(AB/MPJ)
S06s	6844	21-7	0900	Fri	624 978 5 42149 46198 36148 34433 36420 978 5 00000	USB	(AB/MPJ)
S06s	7560	25-7	1110	Tue	754 206 8 48756 14610 94619 67949 06475 40400 83726 95993 206 8 00000	USB	(AB)
S06s	6844	14-7	0900	Fri	624 913 5 11749 70552 56936 57989 05371 913 5 00000	USB	(AB)
S06s	10230	10-7	1200	Mon	831 259 6 31467 53368 83168 98998 23201 86660 259 6 00000	USB	(AB/MPJ/ES)
S06s	9655	14-7	0940	Fri	516 480 7 65850 49884 66485 41299 81177 35685 36376 480 7 00000	USB	(AB/MPJ)
S06s	6844	7-7	0900	Fri	624 913 5 11749 70552 56936 57989 05371 913 5 00000	USB	(AB-UKR)
S06s	6766	4-7	1500	Tue	537 241 6 43548 19152 23063 36924 98924 41716 241 6 00000	USB	(AB-AUT)
S06s	6810	4-7	1000	Tue	754 283 6 12362 84620 80171 58802 49062 16409 283 6 00000	USB	(AB-AUT)
S06s	8221	24-7	0830	Mon	371 206 5 84090 09531 88430 33240 61135 206 5 00000	USB	(AB)
S06s	9353	24-7	0840	Mon	371 206 5 84090 09531 88430 33240 61135 206 5 00000	USB	(AB)
S06s	9255	27-7	0930	Thu	314 567 8 48007 37230 46446 43475 35453 38083 36584 35194 567 8 00000	USB	(AB)
S06s	10325	27-7	0940	Thu	314 567 8 48007 37230 46446 43475 35453 38083 36584 35194 567 8 00000	USB	(AB)
S06s	13145	27-7	1200	Thu	425 906 7 85327 54054 48467 44506 53466 47868 47360 906 7 00000	AM	(AB/MPJ)
S06s	14535	27-7	1210	Thu	425 906 7 85327 54054 48467 44506 53466 47868 47360 906 7 00000	AM	(AB/MPJ)
S06s	7560	4-7	1010	Tue	754 283 6 12362 84620 80171 58802 49062 16409 283 6 00000	USB	(AB-AUT)
S06s	12165	24-7	1210	Mon	831 426 5 10544 98993 68909 45279 53006 426 5 00000	USB	(AB/MPJ)
S06s	10230	24-7	1200	Mon	831 426 5 10544 98993 68909 45279 53006 426 5 00000	USB	(AB/MPJ)
S06s	9655	7-7	0940	Fri	916 480 7 65850 49884 66485 41299 81177 35685 36376 480 7 00000	USB	(AB)
S06s	16945	25-7	0610	Tue	438 438 438 00000	USB	(AB)
S06s	7161	7-7	0910	Fri	624 913 5 11749 70552 56936 57989 05371 913 5 00000	USB	(AB-UKR)
S06s	7365	4-7	0730	Tue	427 890 5 06022 32634 34661 47592 46281 890 5 00000	USB	(AB/ES)
S06s	6844	28-7	0900	Fri	624 978 5 42149 46198 36148 34433 36420 978 5 00000	USB	(AB/MPJ)
S06s	7161	28-7	0910	Fri	624 978 5 42149 46198 36148 34433 36420 978 5 00000	USB	(AB/MPJ)
S06s	10290	28-7	0930	Fri	516 943 7 84217 43043 38367 33406 42366 37868 46793 943 7 00000	USB	(AB/MPJ)
S06s	9655	28-7	0940	Fri	516 943 7 84217 43043 38367 33406 42366 37868 46793 943 7 00000	USB	(AB/MPJ)
S06s	8221	31-7	0830	Mon	371 371 371 00000	USB	(AB)
S06s	9353	31-7	0840	Mon	371 371 371 00000	USB	(AB)
S06s	16380	31-7	0900	Mon	872 872 872 00000	USB	(AB)
S06s	14835	31-7	0910	Mon	872 872 872 00000	USB	(AB)
S06s	10230	31-7	1200	Mon	831 831 831 00000	USB	(AB/MPJ)
S06s	12165	31-7	1210	Mon	831 831 831 00000	USB	(AB/MPJ)
S06s	14835	24-7	0910	Mon	872 530 6 88146 57856 98835 46186	USB	(AB/MPJ)

					16945 80477 530 6 00000		
S06s	16380	24-7	0900	Mon	872 530 6 88146 57856 98825 46186	USB	(AB/MPJ)
					16945 80477 530 6 00000		
S06s	10290	7-7	0930	Fri	916 480 7 65850 49884 66485 41299	USB	(AB)
					81177 35685 36376 480 7 00000		
S06s	14875	9-7	0640	Sun	524 967 8 46062 68672 94778 39685	USB	(AB)
					30485 96632 52537 53317 967 8 00000		
S06s	5660	25-7	1010	Tue	893 205 6 46779 09123 18495 71851	USB	(AB)
					35407 95075 205 6 00000		
S06s	4820	25-7	1000	Tue	893 205 6 46779 09123 18495 71851	USB	(AB)
					35407 95075 205 6 00000		
S06s	12935	25-7	0810	Tue	352 986 7 18139 57818 32007 36759	USB	(AB)
					92939 47480 65297 986 7 00000		
S06s	12110	19-7	0730	Wed	745 829 6 43334 30147 30494 43014	USB	(AB)
					81051 46544 829 6 00000		
S06s	14977	19-7	0740	Wed	745 829 6 43334 30147 30494 43014	USB	(AB)
					81051 46544 829 6 00000		
S06s	9485	19-7	0820	Wed	471 869 5 40774 45983 48882 31151	USB	(AB)
					32860 869 5 00000		
S06s	11085	19-7	0830	Wed	471 869 5 40774 45983 48882 31151	USB	(AB)
					32860 869 5 00000		
S06s	11565	19-7	0830	Wed	464 891 5 33699 39998 30667 35947	USB	(AB)
					83964 891 5 00000		
S06s	12560	19-7	0840	Wed	464 891 5 33699 39998 30667 35947	USB	(AB)
					83964 891 5 00000		
S06s	14373	25-7	0800	Tue	352 986 7 18139 57818 32007 36759	USB	(AB)
					92939 47480 65297 986 7 00000		
S06s	14580	19-7	1000	Wed	729 431 5 30588 39344 37296 27378	USB	(AB)
					44986 431 5 00000		
S06s	16020	19-7	1010	Wed	729 431 5 30588 39344 37296 27378	USB	(AB)
					44986 431 5 00000		
S06s	15945	25-7	0600	Tue	438 438 438 00000	USB	(AB)
S06s	10325	20-7	0940	Thu	314 567 8 48007 37230 46446 43475	USB	(AB)
					35453 38083 36584 35194 567 8 00000		
S06s	6810	25-7	1100	Tue	754 206 8 48756 14610 94619 67949	USB	(AB/FT)
					06475 40400 83726 95993 206 8 00000		
S06s	16320	9-7	0630	Sun	524 967 8 46062 68672 94778 39685	USB	(AB)
					30485 96632 52537 53317 967 8 00000		
S06s	11655	25-7	0740	Tue	427 908 5 65805 66610 20336 17301	USB	(AB)
					88554 908 5 00000		
S06s	13145	20-7	1200	Thu	425 906 7 85327 54054 48467 44506	AM	(AB/MPJ)
					53466 47868 47360 906 7 00000		
S06s	14535	20-7	1210	Thu	425 906 7 85327 54054 48467 44506	AM	(AB/MPJ)
					53466 47868 47360 906 7 00000		
S06s	7365	25-7	0730	Tue	427 908 5 65805 66610 20336 17301	USB	(AB)
					88554 908 5 00000		
S06s	4820	4-7	1000	Tue	893 267 5 20205 32314 83638 36365	USB	(AB-AUT/ES)
					35685 267 5 00000		
S06s	5660	4-7	1010	Tue	893 267 5 20205 32314 83638 36365	USB	(AB-AUT)
					35685 267 5 00000		
S06s	6780	25-7	0715	Tue	374 265 8 96111 10544 98003 78909	USB	(AB)
					45279 88280 84116 53718 265 5 00000		
S06s	16320	23-7	0630	Sun	524 863 7 62318 93527 51283 52819	USB	(AB)
					64327 83419 21397 863 7 00000		
S06s	14875	23-7	0640	Sun	524 863 7 62318 93527 51283 52819	USB	(AB)
					64327 83419 21397 863 7 00000		
S06s	7744	4-7	1510	Tue	537 241 6 43548 19152 23063 36924	USB	(AB-AUT/MPJ)
					98924 41716 241 6 00000		
S06s	5430	25-7	0700	Tue	374 265 8 96111 10544 98003 78909	USB	(AB-HNG)
					45279 88280 84116 53718 265 5 00000		

S06s	9255	20-7	0930	Thu	314 567 8 48007 37230 46446 43475 35453 38083 36584 35194 567 8 00000	USB	(AB)
S06s	11565	26-7	0830	Wed	464 891 5 33699 39998 30667 35947 83964 891 5 00000	USB	(AB)
S06s	14875	2-7	0640	Sun	524 967 8 46062 68672 94778 39685 30485 96632 52537 53317 967 8 00000	USB	(AB)
S06s	14580	26-7	1000	Wed	729 431 5 30588 39344 37296 27378 44986 431 5 00000	USB	(AB)
S06s	12110	5-7	0730	Wed	745 931 6 73687 04565 39895 91670 29257 59816 931 6 00000	USB	(AB/ES)
S06s	8221	3-7	0830	Mon	371 840 5 78637 56540 39895 07619 75292 840 5 00000	USB	(AB)
S06s	9353	3-7	0840	Mon	371 840 5 78637 56540 39895 07619 75292 840 5 00000	USB	(AB)
S06s	14977	5-7	0740	Wed	745 931 6 73687 04565 39895 91670 29257 59816 931 6 00000	USB	(AB)
S06s	16380	3-7	0900	Mon	872 915 6 20205 64336 95534 08446 87636 04475 915 6 00000	USB	(AB)
S06s	14835	3-7	0910	Mon	872 915 6 20205 64336 95534 08446 87636 04475 915 6 00000	USB	(AB)
S06s	10230	3-7	1200	Mon	831 259 6 31467 53368 83168 98998 23201 86660 259 6 00000	USB	(AB)
S06s	11085	26-7	0830	Wed	471 869 5 40774 45983 48882 31151 32860 869 5 00000	USB	(AB)
S06s	12560	26-7	0840	Wed	464 891 5 33699 39998 30667 35947 83964 891 5 00000	USB	(AB)
S06s	12560	5-7	0840	Wed	464 927 5 92918 97067 58604 41438 03092 927 5 00000	USB	(AB)
S06s	9485	5-7	0820	Wed	471 258 6 92728 26090 08021 83535 15766 96551 258 6 00000	USB	(AB)
S06s	15875	6-7	0830	Thu	842 579 30 75825 93995 64114 ... 98001 66957 44678 579 30 00000	USB	(AB)
S06s	13469	6-7	0930	Thu	842 579 30 75825 93995 64114 ... 98001 66957 44678 579 30 00000	USB	(AB)
S06s	9255	6-7	0930	Thu	314 852 6 58604 41438 03092 68362 01653 95621 852 6 00000	USB	(AB)
S06s	10325	6-7	0940	Thu	314 852 6 58604 41438 03092 68362 01653 95621 852 6 00000	USB	(AB)
S06s	7744	11-7	1510	Tue	537 241 6 43548 19152 23063 36924 98924 41716 241 6 00000	USB	(AB/MPJ)
S06s	6766	11-7	1500	Tue	537 241 6 43548 19152 23063 36924 98924 41716 241 6 00000	USB	(AB/MPJ)
S06s	13145	6-7	1200	Thu	425 916 7 95051 13808 71909 83981 24035 48115 24151 916 7 00000	USB	(AB/MPJ)
S06s	14535	6-7	1210	Thu	425 916 7 95051 13808 71909 83981 24035 48115 24151 916 7 00000	USB	(AB/MPJ)
S06s	12165	3-7	1210	Mon	831 259 6 31467 53368 83168 98998 23201 86660 259 6 00000	USB	(AB/MPJ)
S06s	14373	18-7	0800	Tue	352 986 7 18139 57818 32007 36759 92939 47480 65297 986 7 00000	USB	(AB)
S06s	8221	17-7	0830	Mon	371 206 5 84090 09531 88430 33240 61135 206 5 00000	USB	(AB)
S06s	9353	17-7	0840	Mon	371 206 5 84090 09531 88430 33240 61135 206 5 00000	USB	(AB)
S06s	14835	17-7	0910	Mon	872 530 6 88146 57856 98835 46186 16945 80477 530 6 00000	USB	(AB/MPJ)
S06s	10230	17-7	1200	Mon	831 426 5 10544 98993 68909 45279 53006 426 5 00000	USB	(AB/MPJ)
S06s	12165	17-7	1210	Mon	831 426 5 10544 98993 68909 45279 53006 426 5 00000	USB	(AB/MPJ)

S06s	14875	16-7	0640	Sun	524 863 7 62318 93527 51283 52819 64327 83419 21397 863 7 00000	USB	(AB)
S06s	16320	16-7	0630	Sun	524 863 7 62318 93527 51283 52819 64327 83419 21397 863 7 00000	USB	(AB)
S06s	5430	18-7	0700	Tue	374 265 8 96111 10544 98003 78909 45279 88280 84116 53718 265 5 00000	USB	(AB-HNG)
S06s	6780	18-7	0715	Tue	374 265 8 96111 10544 98003 78909 45279 88280 84116 53718 265 5 00000	USB	(AB)
S06s	14535	13-7	1214	Thu	425 916 7 95051 13808 71909 83981 24035 48115 24151 916 7 00000 Late start	USB	(AB/ES)
S06s	11655	18-7	0740	Tue	427 908 5 65805 66610 20336 17301 88554 908 5 00000	USB	(AB)
S06s	12110	12-7	0730	Wed	745 931 6 73687 04565 39895 91670 29257 59816 931 6 00000	USB	(AB)
S06s	12935	18-7	0810	Tue	352 986 7 18139 57818 32007 36759 92939 47480 65297 986 7 00000	USB	(AB)
S06s	12460	1-7	0800	Sat	254 891 6 10471 11141 84895 96075 81620 43611 891 6 00000	USB	(AB/ES)
S06s	10250	1-7	0810	Sat	254 891 6 10471 11141 84895 96075 81620 43611 891 6 00000	USB	(AB)
S06s	14875	30-7	0640	Sun	524 524 524 00000	USB	(AB)
S06s	16320	30-7	0630	Sun	524 524 524 00000	USB	(AB)
S06s	15945	4-7	0600	Tue	438 217 5 41127 88454 13285 68090 26008 217 5 00000	USB	(AB/ES)
S06s	16945	4-7	0610	Tue	438 217 5 41127 88454 13285 68090 26008 217 5 00000	USB	(AB)
S06s	14930	20-7	0640	Thu	438 438 438 00000	AM	(AB)
S06s	16020	26-7	1010	Wed	729 431 5 30588 39344 37296 27378 44986 431 5 00000	USB	(AB)
S06s	16320	2-7	0630	Sun	524 967 8 46062 68672 94778 39685 30485 96632 52537 53317 967 8 00000	USB	(AB)
S06s	7365	18-7	0730	Tue	427 908 5 65805 66610 20336 17301 88554 908 5 00000	USB	(AB)
S06s	14580	5-7	1000	Wed	729 461 5 32214 34896 82738 36376 35685 461 5 00000	USB	(AB/ES)
S06s	7365	11-7	0730	Tue	427 890 5 06022 32634 34661 47592 46281 890 5 00000	USB	(AB)
S06s	11655	4-7	0740	Tue	427 890 5 06022 32634 34661 47592 46281 890 5 00000	USB	(AB)
S06s	11565	5-7	0830	Wed	464 927 5 92918 97067 58604 41438 03092 927 5 00000	USB	(AB/ES)
S06s	6780	11-7	0715	Tue	374 825 6 32314 34896 82738 36376 35675 65830 825 6 00000	USB	(AB-UKR/ES)
S06s	5430	11-7	0700	Tue	374 825 6 32314 34896 82738 36376 35675 65830 825 6 00000	USB	(AB-UKR)
S06s	9485	26-7	0820	Wed	471 869 5 40774 45983 48882 31151 32860 869 5 00000	USB	(AB)
S06s	11655	11-7	0740	Tue	427 890 5 06022 32634 34661 47592 46281 890 5 00000	USB	(AB)
S06s	13145	13-7	1204	Thu	425 916 7 95051 13808 71909 83981 24035 48115 24151 916 7 00000 Late start	USB	(AB)
S06s	9485	12-7	0820	Wed	471 258 6 92728 26090 08021 83535 15766 96551 258 6 00000	USB	(AB)
S06s	15945	11-7	0600	Tue	438 217 5 41127 88454 13285 68090 26008 217 5 00000	USB	(AB)
S06s	11565	12-7	0830	Wed	464 927 5 92918 97067 58604 41438 03092 927 5 00000	USB	(AB)
S06s	16020	12-7	1010	Wed	729 461 5 32214 34896 82738 36376	USB	(AB/MPJ)

					35685 461 5 00000		
S06s	12560	12-7	0840	Wed	464 927 5 92918 97067 58604 41438 03092 927 5 00000	USB	(AB)
S06s	14977	12-7	0740	Wed	745 931 6 73687 04565 39895 91670 29257 59816 931 6 00000	USB	(AB)
S06s	14580	12-7	1000	Wed	729 461 5 32214 34896 82738 36376 35685 461 5 00000	USB	(AB/MPJ)
S06s	11085	12-7	0830	Wed	471 258 6 92728 26090 08021 83535 15766 96551 258 6 00000	USB	(AB)
S06s	16945	11-7	0610	Tue	438 217 5 41127 88454 13285 68090 26008 217 5 00000	USB	(AB)
S06s	6780	4-7	0715	Tue	374 825 6 32314 34896 82738 36376 35675 65830 825 6 00000	USB	(AB-UKR)
S06s	5430	4-7	0700	Tue	374 825 6 32314 34896 82738 36376 35675 65830 825 6 00000	USB	(AB-UKR)
S06s	12110	26-7	0730	Wed	745 829 6 43334 30147 30494 43014 81051 46544 829 6 00000	USB	(AB)
S06s	14373	11-7	0800	Tue	352 861 7 47154 25660 69885 96882 30034 19804 96845 861 7 000000	USB	(AB)
S06s	14977	26-7	0740	Wed	745 829 6 43334 30147 30494 43014 81051 46544 829 6 00000	USB	(AB)
S06s	5660	11-7	1010	Tue	893 267 5 20205 32314 83638 36365 35685 267 5 00000	USB	(AB-AUT)
S06s	10325	13-7	0940	Thu	314 852 6 58604 41438 03092 68362 01653 95621 852 6 00000	USB	(AB)
S06s	11085	5-7	0830	Wed	471 258 6 92728 26090 08021 83535 15766 96551 258 6 00000	USB	(AB/ES)
S06s	9255	13-7	0930	Thu	314 852 6 58604 41438 03092 68362 01653 95621 852 6 00000	USB	(AB)
S06s	12935	11-7	0810	Tue	352 861 7 47154 25660 69885 96882 30034 19804 96845 861 7 000000	USB	(AB)
S06s	4820	11-7	1000	Tue	893 267 5 20205 32314 83638 36365 35685 267 5 00000	USB	(AB-AUT/ES)
S11a	11092	15-7	1540	Sat	567/36 Vnimanaye 73502 20710 00417 ... 91809 47927 18234 Vnimanaye, rpt msg, konets	USB	(AB)
S11a	5149	7-7	0455	Fri	325/00	USB	(AB/ES)
S11a	10210	24-7	1015	Mon	471/00	USB	(AB/MPJ)
S11a	11092	19-7	1540	Wed	563/00	USB	(AB/MPJ)
S11a	8800	7-7	1020	Fri	427/00	USB	(AB/MPJ)
S11a	12153	19-7	1830	Wed	382/00	USB	(AB)
S11a	12153	24-7	1830	Mon	381/00	USB	(AB/MPJ)
S11a	8530	7-7	0915	Fri	487/00	USB	(AB)
S11a	12457	19-7	1850	Wed	282/00	USB	(AB)
S11a	12457	5-7	1850	Wed	286/35 Vnimanaye 43613 62296 13042 ... 39328 67407 71441 Vnimanaye, rpt msg, konets	USB	(AB)
S11a	4870	19-7	1955	Wed	377/00	USB	(AB/MPJ)
S11a	4870	7-7	1955	Fri	370/00	USB	(AB)
S11a	11092	5-7	1540	Wed	565/00	USB	(MPJ)
S11a	5149	28-7	0455	Fri	327/00	USB	(AB)
S11a	4870	12-7	1955	Wed	378/38 Vnimanaye 80239 36841 04684 ... 96019 61278 85185 Vnimanaye, rpt msg, konets	USB	(AB)
S11a	12153	17-7	1830	Mon	389/00	USB	(AB/MPJ)
S11a	5149	14-7	0455	Fri	321/00	USB	(AB/ES)
S11a	4870	28-7	1955	Fri	376/00	USB	(AB/MPJ)
S11a	10210	31-7	1015	Mon	476/00	USB	(AB/MPJ)
S11a	8800	28-7	1020	Fri	426/00	USB	(AB/MPJ)
S11a	5149	18-7	0455	Tue	322/39 Vnimanaye 54007 78450 23856	USB	(AB)

... 23423 67910 20260 Vnimanije, rpt msg, konets							
S11a	12457	15-7	1850	Sat	286/00	USB	(AB)
S11a	10210	13-7	1015	Thu	470/00	USB	(AB/ES)
S11a	8530	18-7	0915	Tue	481/00	USB	(AB)
S11a	12153	31-7	1830	Mon	389/00	USB	(AB/MPJ)
S11a	12457	12-7	1850	Wed	287/00	USB	(AB)
S11a	8530	28-7	0915	Fri	483/00	USB	(AB)
S11a	12153	12-7	1830	Wed	380/00	USB	(AB)
S11a	8530	14-7	0915	Fri	481/34 Vnimanije 08430 23481 74955 ... 03917 42810 08715 Vnimanije, rpt msg, konets	USB	(AB)
S11a	11092	12-7	1540	Wed	567/36 Vnimanije 73502 20710 00417 ... 91809 47927 18234 Vnimanije, rpt msg, konets	USB	(AB)
S11a	10210	17-7	1015	Mon	471/00	USB	(AB/MPJ)
S11a	10210	3-7	1015	Mon	472/00	USB	(AB/MPJ)
S11a	5149	11-7	0455	Tue	327/00	USB	(AB/ES)
S11a	4870	21-7	1955	Fri	372/00	USB	(AB/MPJ)
S11a	11092	1-7	1540	Sat	565/00	USB	(MPJ)
S11a	12457	1-7	1850	Sat	287/00	USB	(AB/ES)
S11a	10210	20-7	1015	Thu	479/00	USB	(AB)
S11a	11092	8-7	1540	Sat	560/00	USB	(AB/MPJ/ES)
S11a	5149	21-7	0455	Fri	322/39 Vnimanije 54007 78450 23856 ... 23423 67910 20260 Vnimanije, rpt msg, konets	USB	(AB)
S11a	8800	14-7	1020	Fri	426/00	USB	(AB/MPJ)
S11a	8530	21-7	0915	Fri	480/00	USB	(AB/MPJ)
S11a	12457	22-7	1850	Sat	286/00	USB	(AB)
S11a	8530	11-7	0915	Tue	481/34 Vnimanije 08430 23481 74955 ... 03917 42810 08715 Vnimanije, rpt msg, konets	USB	(AB/ES)
S11a	8530	25-7	0915	Tue	480/00	USB	(AB/MPJ)
S11a	4870	5-7	1955	Wed	373/00	USB	(AB/MPJ)
S11a	8800	25-7	1020	Tue	426/00	USB	(AB/MPJ)
S11a	8800	11-7	1020	Tue	429/00	USB	(AB/MPJ/ES)
S11a	8800	21-7	1020	Fri	422/33 Vnimanije 05738 85688 65398 ... 26308 84895 40392 Vnimanije, rpt msg, konets	USB	(AB/MPJ)
S11a	10210	6-7	1015	Thu	476/00	USB	(AB/MPJ)
S11a	8800	18-7	1020	Tue	422/33 Vnimanije 05738 85688 65398 ... 26308 84895 40392 Vnimanije, rpt msg, konets	USB	(AB/MPJ)
S11a	8530	4-7	0915	Tue	483/00	USB	(AB/ES)
S11a	11092	22-7	1540	Sat	569/00	USB	(AB/MPJ)
S11a	10210	27-7	1015	Thu	477/00	USB	(AB)
S11a	12153	5-7	1830	Wed	380/30 Vnimanije 97561 53267 21500 ... 68057 68298 23223 Vnimanije, rpt msg, konets	USB	(AB)
S11a	12153	10-7	1830	Mon	383/00	USB	(MPJ)
S11a	11092	26-7	1540	Wed	566/00	USB	(AB/MPJ)
S11a	4870	14-7	1955	Fri	378/38 Vnimanije 80239 36841 04684 ... 96019 61278 85185 Vnimanije, rpt msg, konets	USB	(AB/MPJ)
S11a	12153	3-7	1830	Mon	380/30 Vnimanije 97561 53267 21500 ... 68057 68298 23223 Vnimanije, rpt msg, konets	USB	(AB/ES)
S11a	12457	29-7	1850	Sat	280/00	USB	(AB)
S11a	11092	29-7	1540	Sat	566/00	USB	(AB/MPJ)
S11a	5149	4-7	0455	Tue	322/00	USB	(AB/ES)

S11a	12457	8-7	1850	Sat	286/35 Vnmaniye 43613 62296 13042 ... 39328 67407 71441 Vnmaniye, rpt msg, konets	USB	(AB/ES)
S11a	10210	10-7	1015	Mon	471/31 Vnmaniye 45806 98875 26200 ... 24020 48546 34054 Vnmaniye, rpt msg, konets	USB	(AB/ES)
S11a	4870	26-7	1955	Wed	373/00	USB	(AB/MPJ)
S11a	8800	4-7	1020	Tue	429/00	USB	(AB/MPJ/ES)
S11a	12457	26-7	1850	Wed	288/00	USB	(AB/MPJ)
S25	13883	13-7	0230	Thu	104 104 104 23964 23964 (R4m) 44444 44444 23674 23674 23674 (R2m) 11111 11111 00000 00000	USB	(kalv)
S25	13883	6-7	0230	Thu	104 104 104 23954 23954 (R2m) 11111 11111 00000 00000	USB	(kalv)
S25	13883	11-7	0230	Tue	104 104 104 23934 23934 (R4m) 44444 44444 23384 23384 23384 (R4m) 11111 11111 00000 00000	USB	(kalv)
S28	4625	15-7	0414	Sat	Buzzer channel marker	USB	(AB-FIN)
S30	5448	15-7	0415	Sat	Pip channel marker	USB	(AB-FIN)
S4020	4020	15-7	0408	Sat	Air Horn channel marker	USB	(AB-FIN)
S4020	4020	14-7	1939	Fri	Air Horn channel marker	USB	(ER-HOL)
S4525	4525	15-7	0413	Sat	Dash channel marker	USB	(AB-FIN)
S4525	4525	14-7	0700	Fri	Dash channel marker	USB	(ES)
S4525	4525	8-7	1830	Sat	Dash channel marker	USB	(ES)
S4525	4525	10-7	1405	Mon	Dash channel marker	USB	(ES)
S5292	3240	15-7	0421	Sat	Channel marker D	USB	(AB-FIN)
UM03	8410	31-7	0904	Mon	X2M i.p. 53 53 CK 100 CK 100 TIME 1611 TIME 1611 DATE 3107 DATE 3107 = ODGVX MPEGY TIZCR UJLMO ... on 7920//8250//8410//10642 kHz	CW	(JPL-CHN)
UM03	8250	27-7	0946	Thu	i.p. 57 57 CK 100 CK 100 TIME 1646 TIME 1646 DATE 2707 DATE 2707 = WLODF OGJYA DQSKZ LNCFU JAPSB ... on 7920//8250//8410//10462 kHz	CW	(JPL-CHN)
UM03	8410	27-7	0946	Thu	i.p. 57 57 CK 100 CK 100 TIME 1646 TIME 1646 DATE 2707 DATE 2707 = WLODF OGJYA DQSKZ LNCFU JAPSB ... on 7920//8250//8410//10462 kHz	CW	(JPL-CHN)
UM03	10462	29-7	0942	Sat	CQ (x3) DE X2M (x2) VVV (x3) MSG (x2) ENG (x2) 61 61 CK 100 CK 100 TIME 1647 TIME 1647 DATE 2907 DATE 2907 = on 7920//8250//8410//10462 kHz	CW	(JPL-NZL)
UM03	6700	24-7	0830	Mon	possible UM03 i.p. LXDFN ZVNRA RO-JEC G..DO ...	CW	(JPL-CHN)
UM03	10462	27-7	0948	Thu	CQ (x3) DE X2M (x2) VVV (x3) MSG (x2) ENG (x2) on 7920//8250//8410//10462 kHz	CW	(JPL-CHN)
UM03	8410	29-7	0624	Sat	CQ (x3) DE X2M (x2) VVV (x3) MSG (x2) ENG (x2) CK 100 CK 100 TIME 1326 TIME 1326 DATE 2907 DATE 2907 = //10462 kHz	CW	(JPL-CHN)
UM03	10462	29-7	0624	Sat	CQ (x3) DE X2M (x2) VVV (x3) MSG (x2) ENG (x2) CK 100 CK 100 TIME 1326 TIME 1326 DATE 2907 DATE 2907 = //8410 kHz	CW	(JPL-CHN)
UM03	7920	27-7	0948	Thu	CQ (x3) DE X2M (x2) VVV (x3) MSG (x2) ENG (x2) on 7920//8250//8410//10462 kHz	CW	(JPL-CHN)
UM03	7920	27-7	0946	Thu	i.p. 57 57 CK 100 CK 100 TIME 1646 TIME 1646 DATE 2707 DATE 2707 =	CW	(JPL-CHN)

					WLODF OGJYA DQSKZ LNCFU JAPSB ... on 7920//8250//8410//10462 kHz		
UM03	8410	27-7	0948	Thu	CQ (x3)DE X2M (x2) VVV (x3) MSG (x2) ENG (x2) on 7920//8250//8410//10462 kHz	CW	(JPL-CHN)
UM03	11200	24-7	0804	Mon	possible UM03 i.p. AYTIL GYEW P LGJTMI JM.. ZOXP. ...	CW	(JPI-CHN)
UM03	7920	29-7	0942	Sat	CQ (x3) DE X2M (x2) VVV (x3) MSG (x2) ENG (x2) 61 61 CK 100 CK 100 TIME 1647 TIME 1647 DATE 2907 DATE 2907 = on 7920//8250//8410//10462 kHz	CW	(JPL-NZL)
UM03	8250	29-7	0942	Sat	CQ (x3) DE X2M (x2) VVV (x3) MSG (x2) ENG (x2) 61 61 CK 100 CK 100 TIME 1647 TIME 1647 DATE 2907 DATE 2907 = on 7920//8250//8410//10462 kHz	CW	(JPL-NZL)
UM03	8410	29-7	0942	Sat	CQ (x3) DE X2M (x2) VVV (x3) MSG (x2) ENG (x2) 61 61 CK 100 CK 100 TIME 1647 TIME 1647 DATE 2907 DATE 2907 = on 7920//8250//8410//10462 kHz	CW	(JPL-NZL)
UM03	7920	31-7	0904	Mon	X2M i.p. 53 53 CK 100 CK 100 TIME 1611 TIME 1611 DATE 3107 DATE 3107 = ODGVX MPEGY TIZCR UJLMO ... on 7920//8250//8410//10642 kHz	CW	(JPL-CHN)
UM03	10462	30-7	1034	Sun	X2M i.p. 13 13 CK 100 CK 100 TIME 1733 TIME 1733 DATE 3007 DATE 3007 = T3A7N D4U5A NT5D6 3NT6A U33N5 75D43 ... //8410 kHz	CW	(JPL-NZL)
UM03	8410	30-7	1034	Sun	X2M i.p. 13 13 CK 100 CK 100 TIME 1733 TIME 1733 DATE 3007 DATE 3007 = T3A7N D4U5A NT5D6 3NT6A U33N5 75D43 ... //10462 kHz	CW	(JPL-NZL)
UM03	8410	29-7	1012	Sat	i.p. 69 69 CK 100 CK 100 TIME 1711 TIME 1711 DATE 2907 DATE 2907 = 3U575 ADUN6 D7N5T 4TU63 ... //10462 kHz	CW	(JPL-NZL)
UM03	10462	29-7	1012	Sat	i.p. 69 69 CK 100 CK 100 TIME 1711 TIME 1711 DATE 2907 DATE 2907 = 3U575 ADUN6 D7N5T 4TU63 ... //8410 kHz	CW	(JPL-NZL)
UM03	8250	27-7	0948	Thu	CQ (x3)DE X2M (x2) VVV (x3) MSG (x2) ENG (x2) on 7920//8250//8410//10462 kHz	CW	(JPL-CHN)
UM03	10462	26-7	1051	Wed	i.p. KCETW OO.IX BQSKC EWFUU RUJOB HZWRU PSJB ... AR 09 09 CK 100 CK 100 TIME 1752 TIME 1752 DATE 2607 DATE 2607 =	CW	(JPL-NZL)
UM03	10462	31-7	0904	Mon	X2M i.p. 53 53 CK 100 CK 100 TIME 1611 TIME 1611 DATE 3107 DATE 3107 = ODGVX MPEGY TIZCR UJLMO ... on 7920//8250//8410//10642 kHz	CW	(JPL-CHN)
UM03	10462	27-7	0946	Thu	i.p. 57 57 CK 100 CK 100 TIME 1646 TIME 1646 DATE 2707 DATE 2707 = WLODF OGJYA DQSKZ LNCFU JAPSB ... on 7920//8250//8410//10462 kHz	CW	(JPL-CHN)
UM03	8250	31-7	0904	Mon	X2M i.p. 53 53 CK 100 CK 100 TIME 1611 TIME 1611 DATE 3107 DATE 3107 = ODGVX MPEGY TIZCR UJLMO ... on 7920//8250//8410//10642 kHz	CW	(JPL-CHN)
UM10	4116	29-7	1351	Sat	10-mins net: HDNA	CW	(JPL-CHN)
UM10	6790	13-7	1025	Thu	10-mins net: JATD at the end HDNA	CW	(JPL-NZL)

was sent twice

UM10	4116	19-7	1726	Wed	10-mins net: HDNA //3542 kHz	CW	(JPL-NZL)
UM10	3542	17-7	1457	Mon	10-mins net: HDNA //4116 kHz	CW	(JPL-NZL)
UM10	4116	27-7	1352	Thu	10-mins net: HDNA	CW	(JPL-KOR)
UM10	3542	19-7	1726	Wed	10-mins net: HDNA //4116 kHz	CW	(JPL-NZL)
UM10	4116	17-7	1457	Mon	10-mins net: HDNA //3542 kHz	CW	(JPL-NZL)
UM10	6790	25-7	0027	Tue	10-mins net: JATD	CW	(JPL-CHN)
UM10	6790	24-7	0825	Mon	10-mins net: JATD	CW	(MPJ-CHN)
V07	12163	2-7	0720	Sun	512 512 512 000	USB	(AB-J/HFD)
V07	12163	16-7	0720	Sun	512 512 512 000	USB	(AB-J/Dan)
V07	13563	16-7	0700	Sun	512 512 512 000	USB	(AB-J/Dan)
V07	13563	30-7	0700	Sun	512 512 512 000	USB	(AB-J/kalv)
V07	12163	30-7	0720	Sun	512 512 512 000	USB	(AB-J/kalv)
V07	10263	23-7	0740	Sun	512 1 via KiwiSDR Kaneohe	USB	(HFD-HWA)
V07	12163	23-7	0720	Sun	512 1 via KiwiSDR Kaneohe	USB	(HFD-HWA)
V07	13563	23-7	0700	Sun	512 1 430 67 58416 via Kiw	USB	(HFD-HWA)
V07	13563	23-7	0700	Sun	512 1 430 67 58416 95721 90315 ... 26233 40247 76915 000 000	USB	(AB-J/Dan)
V07	13563	2-7	0700	Sun	512 512 512 000	USB	(AB-J/HFD)
V07	13563	9-7	0700	Sun	512 512 512 000	USB	(AB- J/Dan/Token)
V07	10263	23-7	0740	Sun	512 1 430 67 58416 95721 90315 ... 26233 40247 76915 000 000	USB	(AB-J/Dan)
V07	12163	9-7	0724	Sun	512 512 512 000	USB	(Token)
V07	12163	9-7	0720	Sun	512 512 512 000	USB	(Token)
V07	10250	25-7	1200	Tue	687 1 97 50 53514 42804 63533 50575 ... several restarts, errors, partly un- readable due to fading and QRM	USB	(ES)
V07	12163	23-7	0720	Sun	512 1 430 67 58416 95721 90315 ... 26233 40247 76915 000 000	USB	(AB-J/Dan)
V13	11430	21-7	0600	Fri	New Star Broadcasting Station	AM	(AB-J)
V13	11430	20-7	0600	Thu	New Star Broadcasting Station	AM	(AB-KOR)
V13	15388	23-7	0805	Sun	New Star Broadcasting Station	AM	(Phi-CHN)
V13	15388	2-7	0700	Sun	New Star Broadcasting Station	AM	(AB-J)
V13	11430	24-7	0609	Mon	New Star Broadcasting Station	AM	(Phi)
V13	11430	14-7	0600	Fri	New Star Broadcasting Station	AM	(AB-J)
V13	15388	9-7	0700	Sun	New Star Broadcasting Station	AM	(AB-J)
V13	9725	20-7	1300	Thu	New Star Broadcasting Station	AM	(AB-J)
V13	11430	5-7	0600	Wed	New Star Broadcasting Station	AM	(AB-J)
V24	5290	3-7	1430	Mon	Music followed by message in Korean	USB	(AB)
V24	5900	15-7	1600	Sat	Music: J'aime la vie followed by mes- sages in Korean	AM	(AB-J/CM2)
V24	4900	25-7	1530	Tue	Music followed by Korean numbers	AM	(AB-J)
V24	4900	23-7	1530	Sun	Music followed by a message in Korean	AM	(AB-J)
V26	8073	25-7	0022	Tue	Messages in Chinese. Female operator //4364 kHz	USB	(JPL-CHN)
V26	4243	12-7	2358	Wed	Messages in Chinese. Female operator //9054 kHz	USB	(JPL-KOR)
V26	9054	12-7	2358	Wed	Messages in Chinese. Female operator //4243 kHz	USB	(JPL-KOR)
V26	4364	25-7	0022	Tue	Messages in Chinese. Female operator //8073 kHz	USB	(JPL-CHN)
VC01	4588	15-7	1331	Sat	Chinese robot (female voice)	USB	(Phi-J)
VC01	7118	19-7	1134	Wed	Chinese Robot	USB	(IARUMS)
VC01	7118	12-7	0957	Wed	Chinese Robot	USB	(IARUMS)
X06	13838	19-7	0641	Wed	Mazielka i.p. Sequence: 256341	MFSK-6	(ES)
X06	15828	28-7	1004	Fri	Mazielka i.p. Sequence: 256134	MFSK-6	(ES)
X06	15828	14-7	1003	Fri	Mazielka. Sequence: 256134	CW	(ES)
X06	15920	28-7	0534	Fri	Mazielka. Sequence: 216435	MFSK-6	(ES)

X06	16153	20-7	1052	Thu	Mazielka i.p. Sequence: 153624. Ends 1103z	MFSK-6	(AB)
X06	14675	11-7	1002	Tue	Mazielka. Sequence: 612534	MFSK-6	(ES)
X06	14863	14-7	1002	Fri	Mazielka. Sequence: 615243	CW	(ES)
X06b	14763	10-7	1811	Mon	Mazielka. Sequence: 1--6-- before E07	MFSK-6	(Dan)
X06b	14783	10-7	1813	Mon	Mazielka. Sequence: 1--6-- before E07	MFSK-6	(Dan)
X06b	14783	10-7	1815	Mon	Mazielka. Sequence: 1--6-- before E07	MFSK-6	(Dan)
X06b	16263	10-7	1810	Mon	Mazielka. Sequence: 1--6-- before E07	MFSK-6	(Dan)
X06b	16264	10-7	1812	Mon	Mazielka. Sequence: 1--6-- before E07	MFSK-6	(Dan)
X06b	16263	10-7	1814	Mon	Mazielka. Sequence: 1--6-- before E07	MFSK-6	(Dan)
X06b	12221	24-7	1308	Mon	Mazielka. Single tone, before M12. Ends 1309 UTC	CW	(AB)
X06b	14763	5-7	1915	Wed	Mazielka. Sequence: 1--6-- during E07	MFSK-6	(AB)
X06b	13363	5-7	1933	Wed	Mazielka. Sequence: 1--6-- before E07	MFSK-6	(AB)
X06b	13320	24-7	1220	Mon	Mazielka. Sequence: 1--6-- Ends 1254 UTC	MFSK-6	(AB)
X06b	12221	24-7	1311	Mon	Mazielka, Single tone, before M12. Ends 1312 UTC	CW	(AB)
X06c	16153	13-7	0932	Thu	Mazielka. Sequence: 123456	CW	(ES)
XPA	11409	29-7	0600	Sat	456 1 08257 00069 02589 ... 03124 57216 31144	MFSK-20/10Bd	(AB)
XPA	14609	1-7	0640	Sat	456 456 456 000 09015 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	13509	1-7	0620	Sat	456 456 456 000 09015 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	11409	26-7	0600	Wed	456 1 08257 00069 02589 ... 03124 57216 31144	MFSK-20/10Bd	(AB)
XPA	13509	26-7	0620	Wed	456 1 08257 00069 02589 ... 03124 57216 31144	MFSK-20/10Bd	(AB)
XPA	14609	26-7	0640	Wed	456 1 08257 00069 02589 ... 03124 57216 31144	MFSK-20/10Bd	(AB)
XPA	13509	29-7	0620	Sat	456 1 08257 00069 02589 ... 03124 57216 31144	MFSK-20/10Bd	(AB)
XPA	14609	8-7	0640	Sat	456 1 01373 00079 72733 ... 06024 31398 66154	MFSK-20/10Bd	(AB)
XPA	11409	19-7	0600	Wed	456 456 456 000 03070 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	13509	19-7	0620	Wed	456 456 456 000 03070 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	14609	19-7	0640	Wed	456 456 456 000 03070 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	11409	1-7	0600	Sat	456 456 456 000 09015 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	14609	22-7	0640	Sat	456 456 456 000 02282 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	13509	5-7	0620	Wed	456 1 01373 00079 72733 ... 06024 31398 66154	MFSK-20/10Bd	(AB)
XPA	14609	5-7	0640	Wed	456 1 01373 00079 72733 ... 06024 31398 66154	MFSK-20/10Bd	(AB)
XPA	11409	15-7	0600	Sat	456 1 00891 00105 77534 ... 68572 45316 17714	MFSK-20/10Bd	(AB/HFD)
XPA	13509	15-7	0620	Sat	456 1 00891 00105 77534 ... 68572 45316 17714	MFSK-20/10Bd	(AB/HFD)
XPA	14609	15-7	0640	Sat	456 1 00891 00105 77534 ... 68572 45316 17714	MFSK-20/10Bd	(AB/HFD)
XPA	13509	8-7	0620	Sat	456 1 01373 00079 72733 ... 06024 31398 66154	MFSK-20/10Bd	(AB)
XPA	11409	8-7	0600	Sat	456 1 01373 00079 72733 ... 06024 31398 66154	MFSK-20/10Bd	(AB)
XPA	11409	22-7	0600	Sat	456 456 456 000 02282 00001 00000	MFSK-20/10Bd	(AB)

					10140		
XPA	11409	5-7	0600	Wed	456 1 01373 00079 72733 ... 06024 31398 66154	MFSK-20/10Bd	(AB)
XPA	13509	22-7	0620	Sat	456 456 456 000 02282 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	11409	12-7	0600	Wed	456 1 00891 00105 77534 ... 68572 45316 17714	MFSK-20/10Bd	(AB)
XPA	13509	12-7	0620	Wed	456 1 00891 00105 77534 ... 68572 45316 17714	MFSK-20/10Bd	(AB)
XPA	14609	12-7	0640	Wed	456 1 00891 00105 77534 ... 68572 45316 17714	MFSK-20/10Bd	(AB)
XPA	14609	29-7	0640	Sat	456 1 08257 00069 02589 ... 03124 57216 31144	MFSK-20/10Bd	(AB)
XPA2	14984	18-7	1920	Tue	03107 00195 51174 ... 44715 43272 15555	MFSK-16/20Bd	(AB/MPJ)
XPA2	12138	11-7	2140	Tue	03312 00135 79942 ... 40599 55747 75641	MFSK-16/20Bd	(AB/SP1)
XPA2	13538	11-7	2120	Tue	03312 00135 79942 ... 40599 55747 75641	MFSK-16/20Bd	(AB)
XPA2	14538	11-7	2100	Tue	03312 00135 79942 ... 40599 55747 75641	MFSK-16/20Bd	(AB)
XPA2	14384	11-7	1940	Tue	06730 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ/Da n/RL)
XPA2	13538	18-7	2120	Tue	07349 00001 00000 10140	MFSK-16/20Bd	(AB/RL)
XPA2	14984	11-7	1920	Tue	06730 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ/Da n)
XPA2	15884	11-7	1900	Tue	06730 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ/Da n/RL)
XPA2	12138	18-7	2140	Tue	07349 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14473	11-7	0740	Tue	01580 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14384	18-7	1940	Tue	03107 00195 51174 ... 44715 43272 15555	MFSK-16/20Bd	(AB/MPJ/RL)
XPA2	14384	20-7	1940	Thu	03107 00195 51174 ... 44715 43272 15555	MFSK-16/20Bd	(AB/Dan/MP J)
XPA2	15884	18-7	1900	Tue	03107 00195 51174 ... 44715 43272 15555	MFSK-16/20Bd	(AB/MPJ)
XPA2	14473	14-7	0740	Fri	04003 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	18673	14-7	0720	Fri	04003 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	20173	14-7	0700	Fri	04003 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14384	13-7	1940	Thu	09063 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	14984	13-7	1920	Thu	09063 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	15884	13-7	1900	Thu	09063 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	15967	14-7	2100	Fri	04268 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14538	18-7	2100	Tue	07349 00001 00000 10140	MFSK-16/20Bd	(AB/RL)
XPA2	12138	23-7	2140	Sun	00420 00077 78905 ... 83796 60679 23254	MFSK-16/20Bd	(AB)
XPA2	18673	7-7	0720	Fri	09114 00093 55759 ... 18391 90586 13354	MFSK-16/20Bd	(AB)
XPA2	14473	7-7	0740	Fri	09114 00093 55759 ... 18391 90586 13354	MFSK-16/20Bd	(AB)
XPA2	12217	28-7	2140	Fri	04666 00001 00000 10040	MFSK-16/20Bd	(AB)
XPA2	15967	7-7	2100	Fri	02947 00143 44335 ... 58935 68395 22760	MFSK-16/20Bd	(AB)
XPA2	13884	7-7	2120	Fri	02947 00143 44335 ... 58935 68395 22760	MFSK-16/20Bd	(AB)
XPA2	13884	28-7	2120	Fri	04666 00001 00000 10040	MFSK-16/20Bd	(AB)
XPA2	12217	7-7	2140	Fri	02947 00143 44335 ... 58935 68395 22760	MFSK-16/20Bd	(AB)
XPA2	15967	28-7	2100	Fri	04666 00001 00000 10040	MFSK-16/20Bd	(AB)
XPA2	14473	28-7	0740	Fri	07628 00001 00000 10140	MFSK-16/20Bd	(AB)

XPA2	18673	28-7	0720	Fri	07628 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	20173	28-7	0700	Fri	07628 00001 00000 10140	MFSK-16/20Bd	(AB-GRC)
XPA2	15967	8-7	2100	Sat	02947 00143 44335 ... 58935 68395 22760	MFSK-16/20Bd	(AB)
XPA2	14384	27-7	1940	Thu	05627 00001 00000 10140	MFSK-16/20Bd	(AB/Dan/MP J)
XPA2	15884	20-7	1900	Thu	03107 00195 51174 ... 44715 43272 15555	MFSK-16/20Bd	(AB/Dan)
XPA2	13538	9-7	2120	Sun	03312 00135 79942 ... 40599 55747 75641	MFSK-16/20Bd	(AB)
XPA2	20173	11-7	0700	Tue	01580 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14984	20-7	1920	Thu	03107 00195 51174 ... 44715 43272 15555	MFSK-16/20Bd	(AB/Dan/MP J)
XPA2	15884	6-7	1900	Thu	02078 00201 00239 ... 45833 75400 22551	MFSK-16/20Bd	(AB/MPJ)
XPA2	15967	22-7	2100	Sat	05086 00099 62013 ... 04863 24769 40763	MFSK-16/20Bd	(AB)
XPA2	13884	22-7	2120	Sat	05086 00099 62013 ... 04863 24769 40763	MFSK-16/20Bd	(AB)
XPA2	14984	27-7	1920	Thu	05627 00001 00000 10140	MFSK-16/20Bd	(AB/Dan/MP J)
XPA2	12138	9-7	2140	Sun	03312 00135 79942 ... 40599 55747 75641	MFSK-16/20Bd	(AB/SP1)
XPA2	15884	27-7	1900	Thu	05627 00001 00000 10140	MFSK-16/20Bd	(AB/Dan/MP J)
XPA2	14538	9-7	2100	Sun	03312 00135 79942 ... 40599 55747 75641	MFSK-16/20Bd	(AB)
XPA2	12217	8-7	2140	Sat	02947 00143 44335 ... 58935 68395 22760	MFSK-16/20Bd	(AB)
XPA2	13884	8-7	2120	Sat	02947 00143 44335 ... 58935 68395 22760	MFSK-16/20Bd	(AB)
XPA2	14538	23-7	2100	Sun	00420 00077 78905 ... 83796 60679 23254	MFSK-16/20Bd	(AB)
XPA2	13538	23-7	2120	Sun	00420 00077 78905 ... 83796 60679 23254	MFSK-16/20Bd	(AB)
XPA2	18673	11-7	0720	Tue	01580 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	12217	22-7	2140	Sat	05086 00099 62013 ... 04863 24769 40763	MFSK-16/20Bd	(AB)
XPA2	13538	16-7	2120	Sun	02962 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	12138	30-7	2140	Sun	06745 00001 00000 10140	MFSK-16/20Bd	(AB/RL)
XPA2	14473	21-7	0740	Fri	07947 00135 27330 ... 74740 29522 12044	MFSK-16/20Bd	(AB-RUS)
XPA2	18673	21-7	0720	Fri	07947 00135 27330 ... 74740 29522 12044	MFSK-16/20Bd	(AB-RUS)
XPA2	20173	21-7	0700	Fri	07947 00135 27330 ... 74740 29522 12044	MFSK-16/20Bd	(AB-RUS)
XPA2	14473	18-7	0740	Tue	07947 00135 27330 ... 74740 29522 12044	MFSK-16/20Bd	(AB)
XPA2	18673	18-7	0720	Tue	07947 00135 27330 ... 74740 29522 12044	MFSK-16/20Bd	(AB)
XPA2	13884	29-7	2120	Sat	06555 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	12138	16-7	2140	Sun	02962 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	15967	29-7	2100	Sat	06555 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14538	16-7	2100	Sun	02962 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	12217	15-7	2140	Sat	08396 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	13884	15-7	2120	Sat	08396 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	15884	4-7	1900	Tue	02078 00201 00239 ... 45833 75400 22551	MFSK-16/20Bd	(AB/MPJ/HF D)
XPA2	14538	30-7	2100	Sun	06745 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14384	6-7	1940	Thu	02078 00201 00239 ... 45833 75400	MFSK-16/20Bd	(AB/MPJ)

					22551		
XPA2	20173	18-7	0700	Tue	07947 00135 27330 ... 74740 29522 12044	MFSK-16/20Bd	(AB)
XPA2	14473	25-7	0740	Tue	07345 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14473	4-7	0740	Tue	09114 00093 55759 ... 18391 90586 13354	MFSK-16/20Bd	(AB)
XPA2	18673	4-7	0720	Tue	09114 00093 55759 ... 18391 90586 13354	MFSK-16/20Bd	(AB)
XPA2	20173	4-7	0700	Tue	09114 00093 55759 ... 18391 90586 13354	MFSK-16/20Bd	(AB)
XPA2	13538	25-7	2120	Tue	00420 00077 78905 ... 83796 60679 23254	MFSK-16/20Bd	(AB)
XPA2	14538	25-7	2100	Tue	00420 00077 78905 ... 83796 60679 23254	MFSK-16/20Bd	(AB)
XPA2	14384	25-7	1940	Tue	09825 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ/Da n/RL)
XPA2	12217	29-7	2140	Sat	06555 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	15884	25-7	1900	Tue	09825 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ/Da n)
XPA2	14984	4-7	1920	Tue	02078 00201 00239 ... 45833 75400 22551	MFSK-16/20Bd	(AB/MPJ/HF D)
XPA2	18673	25-7	0720	Tue	07345 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	20173	25-7	0700	Tue	07345 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	12217	21-7	2140	Fri	05086 00099 62013 ... 04863 24769 40763	MFSK-16/20Bd	(AB)
XPA2	20173	7-7	0700	Fri	09114 00093 55759 ... 18391 90586 13354	MFSK-16/20Bd	(AB)
XPA2	13884	21-7	2120	Fri	05086 00099 62013 ... 04863 24769 40763	MFSK-16/20Bd	(AB)
XPA2	15967	21-7	2100	Fri	05086 00099 62013 ... 04863 24769 40763	MFSK-16/20Bd	(AB)
XPA2	14984	25-7	1920	Tue	09825 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ/Da n/RL)
XPA2	12138	2-7	2140	Sun	01261 00001 00000 10140	MFSK-16/20Bd	(AB/HFD)
XPA2	13884	14-7	2120	Fri	04268 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	13538	30-7	2120	Sun	06745 00001 00000 10140	MFSK-16/20Bd	(AB/RL)
XPA2	14984	6-7	1920	Thu	02078 00201 00239 ... 45833 75400 22551	MFSK-16/20Bd	(AB/MPJ)
XPA2	12217	14-7	2140	Fri	04268 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	13538	2-7	2120	Sun	01261 00001 00000 10140	MFSK-16/20Bd	(AB/HFD)
XPA2	14538	2-7	2100	Sun	01261 00001 00000 10140	MFSK-16/20Bd	(AB/HFD)
XPA2	12217	1-7	2140	Sat	09932 00001 00000 10140	MFSK-16/20Bd	(AB/HFD)
XPA2	14538	4-7	2100	Tue	02619 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	15967	1-7	2100	Sat	09932 00001 00000 10140	MFSK-16/20Bd	(AB/HFD)
XPA2	12138	4-7	2140	Tue	02619 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14384	4-7	1940	Tue	02078 00201 00239 ... 45833 75400 22551	MFSK-16/20Bd	(AB/GHn/d mhz/MPJ/HF D)
XPA2	13528	4-7	2120	Tue	02619 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	13884	1-7	2120	Sat	09932 00001 00000 10140	MFSK-16/20Bd	(AB/HFD)
XPA2	12138	25-7	2140	Tue	00420 00077 78905 ... 83796 60679 23254	MFSK-16/20Bd	(AB)
XPA2	15967	15-7	2100	Sat	08396 00001 00000 10140	MFSK-16/20Bd	(AB)
XSL	6250	6-7	1402	Thu	Japanese Navy a.k.a. Slotmachine	QPSK 1500Bd	(AB-J)
XSL	6417	6-7	1404	Thu	Japanese Navy a.k.a. Slotmachine	QPSK 1500Bd	(AB-J)
XSL	6445	6-7	1405	Thu	Japanese Navy a.k.a. Slotmachine	QPSK 1500Bd	(AB-J)
XSL	8588	6-7	1407	Thu	Japanese Navy a.k.a. Slotmachine	QPSK 1500Bd	(AB-J)
XSL	8703.5	6-7	1407	Thu	Japanese Navy a.k.a. Slotmachine	QPSK 1500Bd	(AB-J)
XSL	4291	6-7	1401	Thu	Japanese Navy a.k.a. Slotmachine	QPSK 1500Bd	(AB-J)
XSL	6445	14-7	1418	Fri	Japanese Navy a.k.a. Slotmachine	QPSK 1500Bd	(AB-J)

XSL	8313	6-7	1406	Thu	Japanese Navy a.k.a. Slotmachine	QPSK 1500Bd	(AB-J)
XSL	4231.5	6-7	1400	Thu	Japanese Navy a.k.a. Slotmachine	QPSK 1500Bd	(AB-J)
XSL	4153	6-7	1400	Thu	Japanese Navy a.k.a. Slotmachine	QPSK 1500Bd	(AB-J)
XSL	4153	14-7	1415	Fri	Japanese Navy a.k.a. Slotmachine	QPSK 1500Bd	(AB-J)
XSL	4231.5	14-7	1415	Fri	Japanese Navy a.k.a. Slotmachine	QPSK 1500Bd	(AB-J)
XSL	4291	14-7	1415	Fri	Japanese Navy a.k.a. Slotmachine	QPSK 1500Bd	(AB-J)
XSL	6417	14-7	1417	Fri	Japanese Navy a.k.a. Slotmachine	QPSK 1500Bd	(AB-J)
XSL	8313	14-7	1420	Fri	Japanese Navy a.k.a. Slotmachine	QPSK 1500Bd	(AB-J)
XSL	8588	14-7	1422	Fri	Japanese Navy a.k.a. Slotmachine	QPSK 1500Bd	(AB-J)
XSL	8703.5	14-7	1423	Fri	Japanese Navy a.k.a. Slotmachine	QPSK 1500Bd	(AB-J)
XSL	6250	14-7	1417	Fri	Japanese Navy a.k.a. Slotmachine	QPSK 1500Bd	(AB-J)

CONTRIBUTORS

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AB-CHN	Ary Boender via remote rx China	GNL	Graham, Canada
AB-FNL	Ary Boender via remote rx Finland	HFD	Hans-Friedrich Dumrese, Germany
AB-GRC	Ary Boender via remote rx Greece	HFD-HK	Hans-Friedrich Dumrese via remote rx Hong Kong
AB-HNG	Ary Boender via remote rx Hungary	HFD-HWA	Hans-Friedrich Dumrese via remote rx Hawaii
AB-I	Ary Boender via remote rx Italy	IARUMS	IARU Monitoring Service
AB-ISR	Ary Boender via remote rx in Israel	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-KOR	JPL via remote rx South Korea
AB-NZL	Ary Boender via remote rx New Zealand	JPL-NZL	JPL via remote rx New Zealand
AB-POL	Ary Boender via remote rx Poland	JPL-Sib	JPL via remote rx Siberia
AB-RUS	Ary Boender via remote rx Russia	Kalv	Kalvados
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Danix-J	Danix via remote rx Japan	Phi-J	Philby via remote rx Japan
Danix-USA	Danix via remote rx USA	PW2	Parkeerwacht, The Netherlands
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ES-ISR	Edward Smith via remote rx Israel	skx	skeezix, MN, USA
ES-POL	Edward Smith via remote rx Poland	SP1	Sylvain, France
F5JBR	F5JBR André, France	Token	T!, CA, USA
F5JBR-KOR	F5JBR via remote rx South Korea	WP3	Wolfgang Palmberger

APPENDIX

Search for X06

The X06 Team is constantly trying to log and understand the transmissions broadly known as X06 or Mazielka. The purpose of this message, to all UDXF members is to ask for a more intense focus on this series of signals. It is hoped that the following descriptions will help members identify as X06 those signals which previously have been ignored or misunderstood.

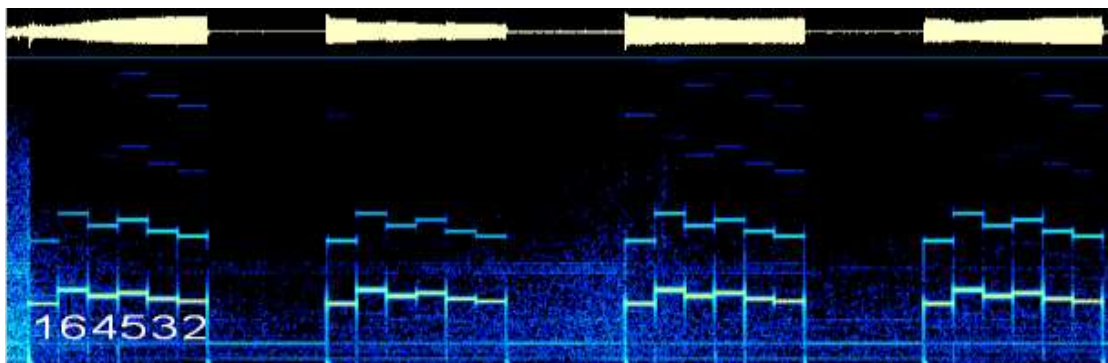
Outline

X06 has been in evidence since the sixties and originally appeared to act as a pre-cursor or alarm to RTTY and Crowd36 transmissions. This came in the form of a six tone sequence as follows:

Tone	Frequency
1	840hz (Lowest)
2	870hz
3	900hz
4	930hz
5	970hz
6	1015hz (Highest)

There are 720 different tone combinations
(1x2x3x4x5x6)

The following sequence shows as 164532



Each tone sounds for 0.3 sec with a pause of 1.3 seconds between sets and this sequence usually lasts between 2 and 6 minutes.

The above shows a sample of a pure X06, however there are other combinations.

X06a

Alternating two tones e.g. 161616 each tone lasting approximately 0.3 seconds repeated after 1.3 seconds a whole transmission has been known to last up to 4-5 hours.

X06b

A group of less than 6 tones, where at least 1 tone is longer than the others, separated by a pause, such as 12-456 or 1--6--. Each longer tone lasting approximately 1.0 second separated with a pause of 1.3seconds.

X06c

6 tone rising scale e.g. 123456. X06 transmissions are usually found transmitting on single upper side band with a full carrier, but it have been seen transmitting on DSB/AM on occasion as well as in single upper side band without a carrier.

Schedules

The frustrating element of X06 is the fact that there appears to be no regular schedules other than the day/week number such as: 1st Monday of the month etc. In some instances, time slots can be found which are repeated in successive months.

Frequencies

Reference to the X06 database, to be found on the UDXF and N&O websites lists those frequencies currently in use.

<http://udxf.nl/Master-X06.xls>

<http://www.numbersoddities.nl/Master-X06.xls>

Purpose (With thanks to Ary Boender)

What is the purpose of X06? That might have changed. In the past it was definitely used as wake-up call for diplo/intel transmissions. The fact that X06b is linked to E07, XPA and M12 might indicate that this is still the case.

The crowd transmissions appeared on the old RTTY/ M42 nets and the readable parts indicated that they were related to the old RTTY stations. Although these nets were always linked to diplo traffic, they were also used by the intel community. Note the digital (RTTY/Crowd/etc.) transmissions are only sent to embassies, consulates, etc. Embassy personnel does not only include diplomats but also intelligence personnel and military attaches who also receive messages through the same channels.

X06b is linked to the “7” family, which makes me believe that X06 is only used in combination with an intel transmission and is/was not used for diplo transmissions. That means that X06 is operated by the agency that runs the “7” network. This explains why X06 did not always appear before all RTTY/Crowd transmissions. It only appeared before an intel transmission. I assume that this is still the case but we may not always notice it, as transmissions can be in any mode these days, and they are not necessarily on the same frequency.

We see that F06 is quite active and it is using some of the old id’s from the RTTY days, and the headers and messages are similar to that traffic, yet we don’t see any X06 activity. Probably because F06 belongs to the “6” family (E06, S06, G06, etc.) and not to the “7” family.

Application

Logs have been made of X06b sounding on frequencies scheduled for XPA, E07 and M12 up to 1 hour before the main transmission and may also be linked to other families.

Summary

One of the main reasons for this exercise is to learn more about the purpose of X06 and its practical application.

We hope this commentary has helped to explain the current understanding of X06/Mazielka and will encourage UDXF members to identify X06 and contribute to a wider knowledge of these transmissions. In the event of a “catch” it would be appreciated if the following data could be logged and posted to UDXF with the subject Mazielka.

Date	Frequency	First heard UTC	Last heard UTC	Tones	Related to	Reporter	Comments
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Please do not hesitate to contact the X06 Team if you have any queries.

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peter@bmsona.co.uk

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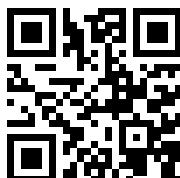
NUMBERS & ODDITIES <http://www.numbersoddities.nl>
SPY NUMBERS ONLINE DATABASE <http://www.spynumbers.com/numbersDB>
UDXF - UTILITY DXERS FORUM <http://www.udxf.nl>
HF UNDERGROUND <http://www.hfunderground.com/board/>
PRIYOM <http://priyom.org/>

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.

114 07004 92606 89428 63286 10180 18000 10248 31270 01
46 40922 76987 22123 40917 26365 81287 65491 87264 81
121 75654 55656 12737 72727 72727 91918 63473 67867 76
223 87629 37677 32652 53498 71296 28756 18276 98716 81
269 78329 74698 78857 98678 27881 56791 57681 73648 1
81 87384 87285 96710 27630 12673 94769 28743 98127
1 63298 76688 27665 87226 49876 28376 81273 98673 81
87 67432 74328 78674 29867 32867 67867 86786 63286 81
57 68768 68762 34234 34238 68768 62342 68772 68768 22
50 98432 32432 86743 43288 43286 43286 43286 43288 81
160 81743 86743 29867 32867 86743 43286 43286 43243 86
170 81743 86743 86743 86743 86743 86743 86743 86743 43
180 98798 98754 98754 98754 98754 29867 67543 67986 81
190 87698 68876 87698 49876 87612 12345 34867 86798 81
200 93298 65656 64764 56123 32143 14321 32143 14321 321
210 17577 57777 18080 58765 70587 68766 76587 58766 81

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