

6	27364	92836	89428	61268	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	98678	27681	56781	57681	73648	1
1	87364	87265	96718	27638	12673	84769	28743	98127	2
8	63298	75698	27465	87326	49876	28376	81273	98615	
7	87432	74328	78674	29867	32867	67867	86786	43286	87
17	68768	68763	34234	34238	68768	62342	48273	48768	2
26	98432	32432	86743	43286	43286	43286	43286	43286	48
43	86743	86743	39867	32867	86743	43286	43286	43243	86
1	86743	86743	86743	86743	86743	86743	86743	86743	2
99	98798	98754	98754	98754	98754	29867	67543	67986	87
10	87698	69876	87698	69876	87612	12341	34867	86798	6
1	43298	65656	56756	56123	32143	14321	32143	14321	37
7	58765	58765	76587	58765	76587	58765	76587	58756	8

# Numbers & Oddities

## a.k.a. The Spooks Newsletter

### Edition #244, January 2018

Editor: Ary Boender email: [udxf@udxf.nl](mailto: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

### New designators

POL is partly replaced by

- P03a Polish Intelligence BPSK-63
- P03b Polish Intelligence QPSK-63
- POL is still the designator for QPSK-125. However, this mode hasn't been heard in the past few months

The Chinese Military Nets document has been updated. I added UM03, XSG/XSV, and updated the VC01 and ALE info.

<http://www.numbersoddities.nl/Chinese-military-nets.pdf>

Pierre Ynard from Priyom.org sent us an interesting overview of the far eastern operations of Russia's nn6-family. Thanks for that.

Be sure to check out the [North Korean diplo](#) section for more info about this network.

### Logs and analysis on Russia's 6-family operations in the far-east

by Pierre Ynard (priyom.org)

As we already knew, the weekdays 0000/0100/0200/0300/0400/0500z transmissions of the F01/F06/S06/M14 network went on vacation and didn't transmit between January 1st and 8th, inclusive. However what I didn't expect was that the far-eastern E06 ID 537, E06 ID 361, S06 ID 842 and F06 ID 40122 schedules also followed this vacation! Curious as it seems that these two networks are not even transmitted from the same location.

I monitored and looked closely for the transmissions that never showed up, moreover we can be conclusive that they never happened thanks to the group count pattern these schedules follow: it increments every week, and resumed after the vacation with no gap in the sequence.

Here are the logs, including the last transmission of December:

#### E06 ID 537

December 25/26:

537 269 48

47067 27851 36201 76696 80843 74588 56734 01377 53279 76758  
41665 67051 39787 65112 88190 51871 66940 26595 76415 58292  
31657 44008 86438 92239 65790 62727 50682 18550 82070 64161  
39931 84865 62336 50629 06485 31172 73974 71359 32881 27174  
25539 44282 59629 04682 97449 53316 90374 77215

January 1/2: No transmission

January 8/9: No transmission

January 15/16:

537 108 49

38592 60298 30805 52823 33303 27506 81884 17298 70506 34848  
61069 04801 61896 41167 39409 29729 50240 89174 49867 28945  
55069 27684 67246 05149 08324 83551 36649 12936 03366 00517  
36414 17213 05813 87118 86456 78662 99629 40884 37960 45955  
66903 40972 05354 59374 24751 26468 26510 95563 67798

January 22/23:

537 624 50

15913 65871 38425 81948 38184 46366 14295 74180 75075 14061  
41930 72846 44693 12357 26700 81974 98251 27386 72563 04758  
20159 97612 43560 53987 83409 13207 49160 49126 29686 70657  
62058 56390 62751 12439 32195 45483 25872 65346 14268 61072  
58349 67451 13978 32790 14026 62415 72429 72013 83924 51302

January 29/30:

537 981 30

42739 60932 68143 19236 80192 39521 24034 17392 76594 18572  
86274 98173 29602 47894 07902 96503 54120 32065 42572 65314  
13987 96802 56378 48169 36278 98152 85162 91293 94127 79163

**E06 ID 361**

December 28/29:

361 598 34

64881 75312 02029 81304 95541 27899 80059 40204 00068 32232  
67939 99251 36427 33973 48153 16752 00502 09393 61306 66987  
95035 03815 67099 88874 91631 35396 31974 67912 59268 31423  
79347 31125 57747 89314

January 4/5: No transmission

January 11/12:

361 702 35

82936 26049 03577 06153 44238 38246 38998 85415 01210 75909  
38914 80788 46004 84358 27655 77571 98359 03465 85510 56883  
37181 69330 75874 25122 16600 38328 84203 02506 77440 88195  
42226 37895 90041 75866 35850

January 18/19:

361 985 36

64235 14589 55975 65303 93931 97229 90620 47550 34541 68591  
95842 50392 05774 76505 27754 39142 32875 15787 78081 35682  
16546 21340 53452 08670 52692 10755 07127 25951 63234 82081  
46512 86364 23880 96463 61589 73128

January 25/26:

361 204 37

15489 62404 57407 30952 98374 94269 94056 51494 40998 74040  
61616 10074 24019 70905 10499 56081 56080 11549 66481 55199  
24558 02653 86978 89496 89769 70689 03736 89646 39830 04929  
81635 47718 48330 14613 48308 83960 02043

**S06 842**

December 28/29:

842 651 34

48350 32524 31767 70075 48184 77044 65393 14708 60772 21795  
71548 24206 35371 97806 04103 36452 79038 03624 47053 02854  
80920 20502 59294 55944 68987 89822 30421 32152 42640 69896  
33506 79434 29639 14351

January 4/5: No transmission

January 11/12:

842 759 35

54978 31468 82696 91760 71731 20050 05067 77770 56845 42334  
06994 74588 50196 22084 04234 20743 18127 34556 65735 99223  
41878 92367 61673 71439 56101 81833 63939 73376 98413 54493  
22495 91150 55925 03499 66054

January 18/19:

842 501 36

25251 66790 21878 14380 87710 61046 48942 58589 03108 59295  
94068 91243 92428 76020 52414 77363 96041 79244 70015 51207  
86527 98451 02187 03966 65991 54884 83723 27564 58779 68437  
84367 85921 35546 23963 47961 15479

January 25/26:

842 619 37

90836 51788 07971 04147 76977 04155 96384 70429 86016 20181

44238 16171 86450 77769 93164 85159 50331 77686 24512 46698

12028 06105 15798 96662 67314 98807 05484 00084 79982 42987

45721 73653 88155 77582 47783 31619 27507

#### **F06 ID 40122**

December 27/28: 11166 40122 96324 23054 04089

January 3/4: no transmission

January 10/11: 11166 40122 36295 06055 03469

Moreover on January 10/11 it only sent a single message, whereas this schedule normally sends a double message on week 2. I'm sure Daniel will send you the full logs of the month for that schedule.

#### **S25**

Other, possibly related news, the S25 ID 104 schedule that had been sending almost every Tuesday and Thursday at 0230z on 13883 kHz, for months as far back as June at least, did not survive in 2018.

After a few slightly unusual logs in December, the last transmission happened as scheduled on the last slot of 2017, on December 28th: **104 21104 44444 23314 44444 20544 11111 00000**

Since then it hasn't been heard in 2018 so far. I suspect that this S25 schedule might have been transmitted from the same location as the far-eastern network above, although I can't tell how much it would relate.

On an interesting note, fellow monitor kalvados dug up an old log from 2014:

1/07/2014 02:30 13883 Russian numbers (male voice) **104 27234 44444 25144 11111 00000**

This potentially puts this schedule several years back - maybe it will even return in the future.

#### **F01**

The Cuban F01 operations were not affected by the new year vacation: the weekly transmissions of F01 ID 00116 and 00117 took place as scheduled. However, they confirmed another quirk that we had suspected: the serial numbers of messages of these schedules get reset to 1 with the new year.

## **VOICE STATIONS**

### **E06**

#### **13945/16350 kHz, 05-01, 0600/0700 UTC**

139 860 52

57169 92190 54426 12308 15525 27152 20424 74715 71986 43195

27441 34334 45363 49686 73842 15671 96644 18828 31952 11867

24132 80092 13944 82887 98126 12398 26496 97551 14852 32483

06407 80355 74304 02913 54355 49015 11721 08137 08985 53669

37337 72072 28522 53679 64146 15610 72086 92963 28323 77510

97907 59809

860 52 00000

#### **4760 kHz, 05-01, 2130 UTC**

472 183 77

73413 48673 92659 68289 43584 32573 24589 34134 65918 95946

19647 87484 25986 28546 59196 27324 59872 48247 28485 96176

87475 92763 83465 14592 56293 28983 29384 98329 21839 32874

93284 98324 59693 25932 15959 61893 26498 23128 96197 12387

13249 67324 76743 43656 87961 28763 54872 35812 54871 63248

64726 56295 91262 52964 52765 43532 47274 12636 32127 63163

47263 47623 76275 26543 76437 36437 64236 43764 28976 49276

42897 73428 34563 92473 91242 17492 27491

183 77 00000

**13945/16350 kHz, 18-01, 0600/0700 UTC**

139 427 56  
 06163 69174 20580 30172 18499 83647 40412 84057 49954 85565  
 58270 39979 89177 12092 04573 47952 51862 42255 52272 36772  
 77176 22848 65087 48844 71164 29185 20061 46696 08060 15417  
 77862 58259 25445 34079 99284 53108 74196 29566 31377 66844  
 09150 35220 11631 15811 31434 28724 63681 69328 18391 25473  
 82943 71638 02038 14633 35630 83762  
 427 56 00000

**4836 kHz, 18-01, 2030 UTC**

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

**4760 kHz, 19-01, 2130 UTC**

427 289 54  
 12345 89657 45632 75684 95463 84567 06854 84657 91745 19567  
 85674 82821 85674 21972 91297 27890 84672 74284 73581 83861  
 74581 91248 17671 41812 97128 90486 43716 47534 85494 24353  
 91486 17410 97272 49191 04171 42468 12893 89758 43673 48727  
 51534 87281 87462 64874 74728 87284 84926 82941 81749 92471  
 67578 64618 84021 72492  
 289 54 00000

See also “Logs and analysis on Russia’s 6-family operations in the far-east by Pierre Ynard ([priyom.org](http://priyom.org))”

**E07****6776/5767/5067 kHz, 15-01/17-01, 2000/2020/2040 UTC**

770 770 770 1 116 92 116 92  
 00858 73711 68042 85403 54910 74433 05407 75876 65715 42641  
 11571 72643 62180 75634 07796 45268 46014 77331 67028 53678  
 42596 16303 15526 31966 20494 89917 85356 98020 24834 02793  
 86651 33781 96060 60033 77948 13451 25578 05309 38275 62317  
 66403 34749 24471 03562 73435 06478 41630 35176 06470 72281  
 01976 91656 58120 84958 33765 49171 02721 94740 53105 21707  
 82279 56287 20652 49663 13908 77812 14477 36219 03997 43697  
 76932 99425 47576 55242 03426 17390 36076 42507 59932 69030  
 34869 07409 58740 09301 19904 68259 58939 57993 19445 46650  
 48837 93331 000 000

**13523/12123/10623 kHz, 16-01/19-01, 1100/1120/1140 UTC**

516 516 516 1 1335 85 1335 85  
 83256 94586 29698 91921 66400 24417 42622 09005 84268 29623  
 91092 20239 78782 75640 11589 62726 22909 28464 86736 18302  
 28568 45902 21567 48915 12722 47015 03783 55889 07267 95198  
 14243 54643 17488 55340 84674 77204 28264 74427 52723 51986  
 79576 61064 93350 34800 86236 60359 63478 37847 00856 04689  
 71369 99999 67582 62613 02387 31985 14732 67664 17562 80511  
 47098 93884 14036 07108 17022 77931 16080 02371 39865 98946  
 38483 17378 02261 55685 06639 68405 61302 69640 14045 30635  
 96236 97164 00963 52661 16584 000 000

**6777/5449/4483 kHz, 18-01, 2110/2130/2150 UTC**

744 744 744 1 205 58 205 58  
54028 16293 77725 14167 91776 14541 56638 03165 47907 90740  
54537 13132 14461 97051 54893 15715 86321 11762 48915 22480  
71763 89761 59710 14605 31978 64388 31915 27627 57485 91953  
26080 00683 38161 36627 83298 02159 79811 46210 77016 59972  
65958 91970 29499 00489 51022 17534 69814 78473 07277 40601  
21882 96392 84316 16784 51723 26390 66282 21258 000 000

**8194/6794/5294 kHz, 21-01/24-01, 1800/1820/1840 UTC. Very poor audio**

172 172 172 1 845 83 845 83  
96173 05715 15902 20460 46578 55730 11604 62547 00154 33671  
99337 04728 82431 91789 80861 24344 27089 60704 55434 55146  
09336 82872 78796 94638 44602 50868 05856 67332 37409 04553  
86793 20354 95007 85376 26471 81540 98989 44281 99103 93094  
87775 75272 20235 14974 48251 28586 83229 11450 83657 60022  
11216 34402 29622 74501 30171 67833 14187 39138 39899 83602  
52054 03331 39554 04074 35373 89863 45203 39679 08992 74276  
84960 12990 58204 56991 45501 52851 27023 87382 43788 18482  
79945 44479 12321 000 000

**8194/6794/5294 kHz, 28-01/31-01, 1800/1820/1840 UTC**

172 172 172 1 731 106 731 106  
17429 14428 98009 64968 28248 44594 65258 88724 33924 20347  
56675 34914 07168 60638 07546 25446 49487 88380 01859 93716  
42333 51813 39153 89995 27845 55975 34443 18850 91682 41888  
34896 44856 47661 60429 98668 44582 28423 46156 06440 04812  
01291 75642 06564 63312 50533 45748 41822 17881 96775 09181  
78749 72470 56060 42540 87841 51140 47503 71739 32598 85976  
09673 07546 87850 81048 83257 10810 52335 55140 58501 91431  
55063 97420 52072 83072 72482 66044 16390 98276 17685 80021  
80205 83412 64708 44201 55454 12928 77994 18144 43561 50667  
40280 58316 36371 58572 00965 46159 25658 66164 85828 14033  
46629 72269 71484 29624 64977 23437 000 000

**E07a**

**5877/5277/4577 kHz, 17-01/24-01, 2100/2120/2140 UTC**

825 825 825 1 37066 2010 63 2010 63  
41217 45508 57631 68157 73605 70229 55046 21970 85848 14779  
66983 43484 37413 23031 64017 95791 53878 52055 71609 72161  
39678 32512 29684 52209 98183 72817 81042 58729 39272 39844  
61711 92360 22377 22595 55721 47908 18116 29700 33276 67132  
24012 36868 98029 94988 22705 31694 35246 16683 66350 67575  
99227 52308 56318 08822 37778 33253 65462 98401 74750 49330  
36665 35355 81468 000 000

**5111/5811/6911 kHz, 18-01/25-01, 0530/0550/0610 UTC**

189 189 189 1 1 37066 2010 63 2010 63  
41217 45508 57631 68157 73605 70229 55046 21970 85848 14779  
66983 43484 37413 23031 64017 95791 53878 52055 71609 72161  
39678 32512 29684 52209 98183 72817 81042 58729 39272 39844  
61711 92360 22377 22595 55721 47908 18116 29700 33276 67132  
24012 36868 98029 94988 22705 31694 35246 16683 66350 67575  
99227 52308 56318 08822 37778 33253 65462 98401 74750 49330  
36665 35355 81468 000 000

## **E11a**

### **9200 kHz, 01-01, 0600 UTC**

184/25 Attention

12307 02710 59006 40190 84836 12772 07928 26823 17048 72023  
96102 90371 01087 45225 65041 44946 33562 59907 21455 32737  
84780 72214 18765 24377 66603

Attention, rpt msg, out

### **11450 kHz, 01-01/03-01, 0640 UTC**

949/36 Attention

14072 08648 05856 81014 90712 15648 88156 56234 07956 30468  
33623 87792 89550 74115 73154 56718 08170 48363 46944 11965  
37742 78542 89799 28401 37188 01045 65890 99985 50723 25698  
75954 43379 70516 45984 49292 43937

Attention, rpt msg, out

### **9446 kHz, 01-01/03-01, 0900 UTC**

533/32 Attention

66759 21286 33606 93449 83603 96357 75796 94185 48921 34619  
34686 31723 89440 13644 96050 00769 65989 32129 67836 63122  
30938 99996 37410 70214 62048 40754 27142 23830 14914 46524  
38823 13225

Attention, rpt msg, out

### **7840 kHz, 02-01, 0645 UTC**

515/35 Attention

56787 84898 31506 36139 08594 44301 05569 94145 26773 67684  
61794 33719 33217 18557 62747 12452 51902 25115 61090 12854  
79155 44867 81331 93671 09575 13002 25198 19337 14827 90148  
40340 50417 13248 97627 23667

Attention, rpt msg, out

### **8180 kHz, 03-01/04-01, 0930 UTC**

279/31 Attention

28094 04187 37874 64217 38545 85400 29684 96168 07272 30685  
41498 16295 51413 64212 65400 83017 49662 45919 25433 36663  
40182 88619 90525 56154 64468 57598 32571 06576 44815 58002  
26426

Attention, rpt msg, out

### **9200 kHz, 05-01, 0600 UTC**

184/25 Attention

12307 02710 59006 40180 84836 12772 07928 26823 17048 72023  
96102 90371 01087 45225 65041 44946 33562 59907 21455 32737  
84780 72214 18765 24377 66603

Attention, rpt msg, out

### **4505 kHz, 06-01/07-01, 0710 UTC**

490/32 Attention

28393 72934 39933 25320 68813 70238 72293 07435 03764 52177  
13769 44803 57459 44027 12637 29266 96965 61750 24561 45382  
06819 31364 76357 32600 60183 82543 50905 72870 70650 64535  
61430 80477

Attention, rpt msg, out

**9130 kHz, 09-01/12-01, 0715 UTC**

631/37 Attention

80269 93094 06799 88234 37313 59619 19564 12201 53220 53840  
50078 83800 95951 97918 79002 79398 28487 75080 57584 28141  
03146 61531 82249 02741 53437 69295 00457 27233 36038 14054  
67027 23643 55768 73860 18962 99891 12740

Attention, rpt msg, out

**12202 kHz, 09-01, 0820 UTC**

134/32 Attention

87892 16600 67845 43562 24929 30363 54152 50043 74823 01348  
99339 46727 74941 66020 15749 49760 84650 83283 37729 59525  
28806 54211 13145 99823 77439 94635 81287 38468 70462 79784  
15231 64165

Attention, rpt msg, out

**10448 kHz, 10-01/14-01, 1625 UTC**

978/33 Attention

78622 21794 22298 90134 67323 44553 15949 55299 50911 99534  
42614 17946 81124 51771 76103 01086 11768 27946 60239 01383  
42153 98136 82183 88836 53357 88171 50403 31874 51245 90585  
22214 83611 77769

Attention, rpt msg, out

**8545 kHz, 10-01/13-01, 1730 UTC**

406/39 Attention

06430 92288 48440 84548 76083 78634 41639 94499 84309 97742  
40061 13021 83883 66736 23162 25145 23587 25416 20349 70926  
44575 48374 81172 38201 31481 64251 68071 03696 27866 77976  
75337 14434 41064 14826 51081 26336 03620 69835 71914

Attention, rpt msg, out

**8680 kHz, 11-01/13-01, 1300 UTC**

581/40 Attention

51667 35619 50138 41784 13127 72821 82801 95189 41681 62424  
49016 25054 26103 04587 30068 31747 33526 16882 25783 38888  
59951 90554 80269 12826 15931 43489 41373 67889 34785 32083  
91792 25622 91037 17304 41112 45809 82779 17359 85809 28437

Attention, rpt msg, out

**5779 kHz, 11-01, 1730 UTC**

414/31 Attention

95819 77411 14924 16769 79176 25642 99495 81228 62311 97994  
25144 64921 76303 92817 21716 24249 10558 39660 30771 48302  
08196 60036 33434 39794 77944 71152 67399 62977 87550 85235  
47579

Attention, rpt msg, out

**16335 kHz, 12-01, 1650 UTC**

929/36 Attention

88110 18019 28664 56219 07076 2131x xx429 70307 31072 49283  
60843 94171 57973 83584 63754 55272 20073 80798 89976 25009  
98651 18800 20681 86729 30106 73144 19045 24690 77245 35667  
45376 44857 27499 53518 49702 37530

Attention, rpt msg, out



**10487 kHz, 12-01/14-01, 1910 UTC**

618/31 Attention

71700 67187 09854 06927 97948 31564 97542 93442 58898 81849  
05191 03179 74583 84934 32348 96592 54500 51092 77510 57102  
42712 79167 53351 99082 01501 83407 00438 40766 11370 21726  
66041

Attention, rpt msg, out

**10213 kHz, 15-01, 0745 UTC**

262/38 Attention

42540 09642 14676 06705 54615 56023 79638 49835 88463 17273  
39085 20535 51807 12856 20349 68048 46305 17649 93458 01882  
81889 84697 54419 46429 48135 90641 26834 64597 19089 25081  
23370 60094 21267 71646 58639 54093 72598 21654

Attention, rpt msg, out

**6849 kHz, 15-01/18-01, 1900 UTC**

643/33 Attention

58835 56258 47588 33438 78209 73045 76849 16236 72423 22937  
78455 53871 21663 65093 00244 77615 22382 89339 32338 98135  
42235 53162 09777 41912 59333 07949 12857 51121 19184 21442  
80492 25426 25411

Attention, rpt msg, out

**11104 kHz, 16-01/18-01, 0845 UTC**

150/20 Attention

61359 28015 95323 26415 38789 94895 09361 05843 05997 33553  
77731 34927 56652 73173 12379 43769 33400 76163 56311 87147

Attention, rpt msg, out

**8800 kHz, 16-01/19-01, 1000 UTC**

308/30 Attention

19196 01210 84199 46429 63017 78194 33263 15935 49085 69441  
07488 06502 93328 08330 94874 08306 07926 94142 88413 96588  
67721 10870 36119 35626 73470 98966 24062 03563 59296 62691

Attention, rpt msg, out

**5409 kHz, 18-01, 1530 UTC**

262/38 Attention

42540 09642 14676 06705 54615 56023 79638 49835 88463 17273  
39085 20535 51807 12856 20349 68048 46305 17649 93458 01882  
81889 84697 54419 46429 48135 90641 26834 64597 19089 25081  
23370 60094 21267 71646 58639 54093 72598 21654

Attention, rpt msg, out

**7984 kHz, 22-01/25-01, 0820 UTC**

432/35 Attention

77693 80424 00416 02937 99589 07599 57942 07170 69970 05769  
08207 79739 70859 27790 48547 27240 33046 33975 87876 40763  
56756 71324 84373 45761 01377 46727 21103 57828 39877 60958  
96086 63765 21758 21460 99315

Attention, rpt msg, out

**4505 kHz, 23-01, 1605 UTC**

233/33 Attention

90520 12339 34483 43965 49285 71327 82130 11382 37314 28607  
16512 93758 42087 50638 27982 63008 13540 66155 89955 50561  
01241 96911 25178 02350 05113 80997 58481 54701 13395 76984  
75618 50968 17608

Attention, rpt msg,out

**11493 kHz, 23-01, 1645 UTC**

332/36 Attention

07597 31601 92449 89174 97052 81075 84801 92784 97081 25807  
86757 41165 03166 11675 22951 15117 58356 49329 62606 35322  
55166 33485 88243 49148 04865 89203 56394 95752 17445 31960  
37145 60804 76693 73649 09020 89629

Attention, rpt msg, out

**17378 kHz, 24-01/26-01, 0745 UTC**

340/37 Attention

12504 85794 54485 17207 99472 58024 14797 73615 09763 48102  
48915 89109 05259 36243 53147 03960 68777 51911 56336 77159  
60135 42987 89522 83370 57583 07073 41895 20137 67671 44388  
83355 11758 10679 03614 01562 09161 72146

Attention, rpt msg, out

**9443 kHz, 24-01/27-01, 1705 UTC**

399/33 Attention

44528 56382 23483 13272 96444 02821 76968 46910 58292 02442  
28666 25846 45393 80233 48873 08194 77052 33474 82433 96794  
43662 98577 08511 44808 16679 08493 33732 17952 95779 96963  
36251 27416 68167

Attention, rpt msg, out

**7377 kHz, 27-01/28-01, 0805 UTC**

313/39 Attention

22623 63864 07422 93267 59518 98901 95554 02154 90240 75079  
41777 87865 04536 79303 55867 01575 51060 26826 12184 95717  
63571 61180 47649 59342 87126 40644 94480 11450 16958 58338  
05824 95764 71086 86798 90111 51398 54693 47129 25590

Attention, rpt msg, out

**7317 kHz, 30-01/31-01, 1205 UTC**

465/33 Attention

54154 27691 51563 12829 19787 10956 72856 48524 76616 84444  
90575 15489 10526 13280 46158 32913 07326 63669 16330 42884  
16995 07912 28003 97584 52810 84038 71493 97979 19307 45515  
23989 63094 27146

Attention, rpt msg, out

**E17z****11170/9820 kHz, 04-01, 0800/0810 UTC**

674 892 5 36330 31471 33619 37137 37908 892 5 00000

**11170/9820 kHz, 18-01/25-01, 0800/0810 UTC**

674 259 8 46062 68672 97478 39685 30485 96632 52537 53317 259 8 00000

**G06****4519 kHz, 11-01, 1830 UTC**

271 847 58

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

**4792 kHz, 12-01/26-01, 1930 UTC**

436 273 62  
64537 27364 28374 34736 39291 27384 37438 28372 27480 94832  
74563 38458 83492 29310 18237 74391 37281 17283 84032 72362  
84393 67482 56464 69738 26491 32642 13794 83842 23810 47131  
95437 82683 73913 74592 43618 74932 74924 74297 43621 94724  
84538 85937 34021 83929 90184 72641 84829 74826 48231 83732  
72642 85914 38539 34752 75392 83482 75637 73892 95736 64612  
84759 76491  
273 62 00000

**4519 kHz, 25-01, 1830 UTC**

271 273 62  
64537 27364 28374 34736 39291 27384 37438 28372 27480 94832  
74563 38458 83492 29310 18237 74391 37281 17283 84032 72362  
84393 67482 56464 69738 26491 32642 13794 83842 23810 47131  
95437 82683 73913 74592 43618 74932 74924 74297 43621 94724  
84538 85937 34021 83929 90184 72641 84829 74826 48231 83732  
72642 85914 38539 34752 75392 83482 75637 73892 95736 64612  
84759 76491  
273 62 00000

**S06****5410 kHz, 07-01, 1730 UTC**

480 532 41  
68128 53518 23246 76308 38133 29892 12160 63004 98610 77027  
77900 36871 19030 84327 99556 48826 40681 18838 64157 50440  
33147 78759 64791 17214 63791 24926 19009 37644 43254 57917  
06973 93248 07056 26795 68612 38242 46045 16619 94601 82040  
46795  
532 41 00000

**6792 kHz, 14-01, 1033 UTC. Unscheduled transmission**

480 359 42  
49563 01154 35760 43827 70133 41841 91351 23807 46730 26195  
36508 65502 07278 88195 63001 89482 40690 02059 14403 02084  
54905 99393 82853 77357 69779 24274 23272 32630 13025 36453  
01089 48475 62523 89342 52755 47781 00930 72731 53277 31812  
31821 27269  
359 42 00000

**8116/6792 kHz, 21-01, 1000/1030 UTC. Unscheduled transmissions**

Partial recording: <http://priyom.org/media/189176/s06-8116usb-20180121-1004z-byqsr711.wav>

480 937 44  
02233 32666 02585 01921 66086 88729 54680 04965 79335 25984  
70541 92449 13303 85017 16590 36384 51092 13958 39941 74423  
30007 61753 67546 19795 69197 29868 40529 18027 92425 68208  
48133 98220 41359 58310 86475 50996 72436 47109 34818 96901  
82515 27048 56151 54890  
937 44 00000

See also “Logs and analysis on Russia’s 6-family operations in the far-east by Pierre Ynard (priyom.org)”

## S06s

S06s oddity:

### 11535 kHz, 17-01, 0830 UTC

745 813 6 51326 41878 48807 28229 33118 80638 813 6 00000 (464 on 7062 kHz in the background)

## S11a

### 4828 kHz, 09-01/12-01, 0455 UTC

322/32 Vnimanaye

72406 07160 98072 24376 53480 54287 53988 14920 17231 24494  
03590 85454 44175 87335 12096 28353 14999 78632 06882 23133  
17912 23411 01630 41943 76907 20022 06125 35325 00559 08519  
12453 48024

Vnimanaye, rpt msg, konets

### 11559 kHz, 15-01, 1015 UTC

478/35 Vnimanaye

80612 59903 42022 45684 35366 29247 68094 30371 35087 82281  
25017 66771 11024 86873 37441 40041 03778 31844 15112 05111  
18049 08634 84655 74607 39402 28239 03544 31215 22257 60759  
54144 80782 09219 41988 75852

Vnimanaye, rpt msg, konets

### 7840 kHz, 16-01/19-01, 1020 UTC

421/30 Vnimanaye

02900 32126 73952 51086 88102 40179 47319 33030 24578 31877  
39811 11333 50658 87786 66528 68069 53971 07654 80337 14601  
89900 86484 79985 56239 11765 08188 17542 25679 80063 93822

Vnimanaye, rpt msg, konets

### 5082 kHz, 17-01/21-01, 2050 UTC

483/40 Vnimanaye

59438 42508 35092 22499 61383 12032 01817 59013 72434 70486  
13319 49260 97777 37412 59789 66417 01933 04763 64130 03387  
03894 97158 36913 86534 56453 93060 00508 28557 89329 18606  
15128 20773 13476 65600 08938 52564 20016 05900 13493 25202

Vnimanaye, rpt msg, konets

### 5815 kHz, 17-01/ 19-01, 1955 UTC

371/40 Vnimanaye

83992 35539 08229 17527 24351 56767 61381 34716 55424 69683  
73625 91478 14509 40956 78493 35690 50048 51805 96921 47574  
63507 65776 36368 03019 47196 31167 91864 24871 73617 62416  
71855 63430 30017 12003 36664 93195 37926 83177 87289 42259

Vnimanaye, rpt msg, konets

### 10728 kHz, 20-01, 1540 UTC

560/34 Vnimanaye

48858 28779 05072 71048 70426 42624 40991 99250 90540 77375  
28784 38103 33447 47600 69504 75917 60471 98570 92475 22075  
09739 72680 36673 32559 12733 79751 79009 93508 48854 84078  
10901 14584 51971 55241

Vnimanaye, rpt msg, konets

**10246 kHz, 25-01, 0735 UTC**

380/40 Vnimaliye

74363 25289 48291 40755 87757 20453 17594 93455 57670 42232

68992 69082 72458 62573 44480 08172 49053 95889 89317 77971

33783 54799 09646 95005 76249 72292 82543 20843 73448 39284

51139 61275 42687 56120 64625 59643 62463 64022 04083 37337

Vnimaliye, rpt msg, konets

**S28 - The Buzzer**

09-01, 1332 UTC i.p. 9 78 98 66 VODOSBORNYY 84 76 83 53 Prijom

09-01, 1358 UTC i.p AFOBEG 45 91 31 55 KEROSINKA 21 67 06 36 Prijom

17-01, 1023 UTC ZhUOZ 59 027 BOBOMIR 31 51 41 31 AKTINOMETR 13 78 10 13

18-01, 1053 UTC ZhUOZ 09 464 sboj sboj sboj

18-01, 1057 UTC ZhUOZ 09 464 KLYuChOKLIN 32 11 12 09 VALYuTChIK 63 59 04 65

18-01, 1107 UTC ZhUOZ 25 705 LABORATORIYa 04 27 94 48

18-01, 1141 UTC ZhUOZ 54 924 BENZOIL 59 99 61 93 BENZIN 63 68 26 80

18-01, 1231 UTC ZhUOZ 68 845 KASHATAN 92 88 45 81

18-01, 1333 UTC ZhUOZ 70 580 BRIGOSEKS 29 54 97 18

**V07****18174/15874/14374 kHz, 21-01, 0100/0120/0140 UTC**

183 183 183 1 8205 65 8205 65

67615 44694 74072 86440 49982 14408 25198 81320 00373 76789

47375 73719 50330 64952 57263 81274 12513 98430 72439 97907

24847 30261 05681 26264 63675 77653 13752 18544 33176 06958

72070 57196 52018 24048 77139 08714 15231 97956 09253 76543

95705 35965 92570 76804 80427 85042 14811 59404 49064 17845

51606 40951 77755 72426 46836 78649 60824 91660 37374 49150

59504 63356 15026 93095 26636 000 000

**V15 via PBS Pyongyang Pansong****657, 3250, 3320, 6400 kHz, 06-01, 1515 UTC, AM**

North Korean intelligence via PBS Pyongyang Pansong.. Messages in Korean

Recording: <http://numbersoddities.nl/V15-2018-0106-1515utc.mp3>**3320, 6400 kHz, 20-01, 1515 UTC, AM**

North Korean intelligence via PBS Pyongyang Pansong. Messages in Korean.

Recording: <http://www.numbersoddities.nl/V15-2018-01-20-1515utc-6400khz.mp3>**3320//6400 kHz, 25-01-2018, 1615 UTC, AM**

North Korean intelligence via PBS Pyongyang Pansong. Messages in Korean

Recording: <http://www.numbersoddities.nl/V15-2018-01-25-1615utc-3320khz.mp3>**VC03 - Chinese Air Defense net****6630 kHz, 11-01, 0310 UTC, USB**

Chinese Air Defense, male operator calling tracking data

**6460 kHz, 11-01, 0319 UTC, USB**

Chinese Air Defense, male operator calling tracking data

## MORSE STATIONS

### M01

#### 5320 kHz, 16-01, 1800 UTC

197 530 530 30 30 = =  
57514 56815 87375 33109 60098 79318 01394 57801 21214 05877  
65773 69236 45643 69720 96705 45800 11961 21688 52234 43443  
00271 23919 06101 13926 61875 86968 40395 39832 82532 07546  
= = 530 530 30 30 000

#### 4490 kHz, 16-01, 2000 UTC

197 448 448 30 30 = =  
08733 10319 81736 89641 59041 37018 12397 13696 84666 51415  
84452 89374 95677 62498 37415 24332 53132 48991 72756 21845  
04090 55598 37780 36222 22966 10537 48410 22465 66707 30261  
= = 448 448 30 30 000

#### 5810 kHz, 20-01, 1500 UTC.

**Note: 72 groups announced, 20 sent. Two groups were not repeated and the end is also incorrect.**

197 990 72 990 72  
24659 89681 93593 73499 23272 93640 66286 (1x) 31165 36816 (1x) 70453  
58094 22490 63537 17230 21444 19550 07334 53240 18518 65867  
06234 88559 97798 11392 93440 81887 99165 76652 26555 = =  
781 = 30 = = 781 03 000

### M01a

#### 9129 kHz, 03-01, 0546 UTC, i.p.

498 408 408 53067 53067  
067 067 067  
498 498 498 5317

#### 10651 kHz, 23-01, 0711 UTC, i.p.

297 297 297 38180 38180  
297 297 297 39318 39318  
297 297 297 39318 39 stopped

#### 4506 kHz, 28-01, 1613 UTC

891 891 891  
891 891 891 83665 83665  
891 891 891 83665 83665  
891 891 891 82169 82169

### M01b

#### 2655//3195 kHz, 05-01/12-01, 2002 UTC

99626 66552 72992 24934 23067 82859 07194 65482 90767 56739  
67048 27165 12558 49792 66964 40689 86215 68026 65472 68169  
64256 48360 50823 04361 16709 75090 19062 63356 59963 12607  
84328 94985 45038  
= = 524 524 33 33 00000

**2435//3520 kHz, 08-01/15-01, 1910 UTC**

853 524 524 33 33 = =  
 99626 66552 72992 24934 23067 82859 07194 65482 90767 56739  
 67048 27165 12558 49792 66964 40689 86215 68026 65472 68169  
 64256 48360 50823 04361 16709 75090 19062 63356 59963 12607  
 84328 94985 45038  
 = = 524 524 33 33 00000

**2425//3205 kHz, 08-01/15-01, 2015 UTC**

375 524 524 33 33 = =  
 99626 66552 72992 24934 23067 82859 07194 65482 90767 56739  
 67048 27165 12558 49792 66964 40689 86215 68026 65472 68169  
 64256 48360 50823 04361 16709 75090 19062 63356 59963 12607  
 84328 94985 45038  
 = = 524 524 33 33 00000

**3545 kHz, 11-01, 1930 UTC**

910 524 524 33 33  
 99626 66552 72992 24934 23067 82859 07194 65482 90767 56739  
 67048 27165 12558 49792 66964 40689 86215 68026 65472 68169  
 64256 48360 50823 04361 16709 75090 19062 63356 59963 12607  
 84328 94985 45038  
 = = 524 524 33 33 00000

**3160 kHz, 11-01, 2042 UTC**

382 524 524 33 33  
 99626 66552 72992 24934 23067 82859 07194 65482 90767 56739  
 67048 27165 12558 49792 66964 40689 86215 68026 65472 68169  
 64256 48360 50823 04361 16709 75090 19062 63356 59963 12607  
 84328 94985 45038  
 = = 524 524 33 33 00000

***M08a - Dirección General de Inteligencia***

Freq	Date	UTC	Day	Details
8096	3-1	1402	Wed	Noisy transmitter at 1350 UTC, then at 1402 UTC abruptly M08a already halfway its first message WDRTU WIDTT NWNWN RRNGU TIARI AAINU ...
8096	5-1	1352	Fri	WDRWA RWTGN IGDA followed by 3 messages
8096	9-1	1408	Tue	Transmitter switched on. Windows sounds, then at 1409 UTC into a message that was already in progress
8096	10-1	1355	Wed	AWTIA NIDTN DARDN followed by 3 messages
8097	11-1	1413	Thu	Windows sound followed by a M08a test transmission sending ANDUW RIGMT for 34 minutes. HM01 still weak in the background for a while. Transmitter off at 1449 UTC
8096	12-1	1325	Fri	i.p.
8096	15-1	1416	Mon	Noisy transmitter on at 1356 UTC. Windows sound at 1416 UTC, followed by a M08a test transmission sending ANDUW RIGMT for 41 minutes. At 1558 UTC Windows sounds after which M08a stops. Transmitter off
8096	17-1	1356	Wed	RGIUN INAIA GWUTA followed by 3 messages
8096	19-1	1402	Fri	i.p. TRDWD WRDGR ADGRD NGWIW DDTUR GGGAR GGGTU TADAD DUARW ...
8096	24-1	1356	Wed	DARAN UUTUA NIDGA followed by 3 messages
8096	29-1	1350	Mon	loud noise, then at 1413z into the 2nd message that is already in progress DTTUW UTWDG NRGDD ATD TT NTGTR WWWAU NNTNN GTNGN TRUNT GWGDA ...

Started while in progress WDRTU WIDTT NWNWN RRNGU TIARI AAINU  
 DNNNN GGRIA INDIU TUIIN TRWAU UTART DNAWN IDDRD RUNGG IWAUD  
 NADTN URWNG RADID UGNIG UGUNN RDNUR DNDWU RRNWD NTTWT RDTII  
 UUNDT GWADN NWAUI UIUWG DINNR WRIUI TRGWI UUURN RAATG DWGWT  
 WARWG NGDUG GTANN UIIRW NDRGD NRGTR RGWUT RRWNR IUAAM UIDDU  
 RUUNI DWIWW TIIUG NGADR RDNRD GWUAN GDWGI AWTNU RWNGD GAWIT  
 WNAGW AGTID TTRTU ANGTR NAAUU GRAAG DDDUT IWING RTRND IANTU  
 + + +

GNRIN GNRIN GNRIN GNRIN GNRIN = = =  
 AAGWW IGNN D ARITD UNNWT GWGWD GUNIG DGGUT GIIWW DNGNW RUAID  
 WGTIA DWARN WGNTI NANAR RNWTT DGWTT RAIDD WTINA IRTUR AADNG  
 NDRII AIUTG AWANT TDATN AGWAG INNGG DDNRU UIGND IUTWG UIURD  
 DNIAD GGNND AWTIA IDRDW NAIGR INAUG NRAAU WUNAR TNUAR TNTAI  
 UDAGD AUTRT TWNDW RRGWN NRADG UWGIA NRWWU RNNWA TUDDR NRAUG  
 GWIDT RGNWA WUWRT AANGG AARGI TATIW TTGNI GARTN UATDR IGUAA  
 GDWND GTNGT IWDAL DGIAU UGIAT RDRUN IGARG DAWTU RANTN DTRWW  
 NRIIR NWAAD WIGWI WWIDD WTNAT RWURT IANRT RAWRT GWNIN WIURT  
 UUUGU URGTR TRAUU ADITR RNAWU DTUWU IAWAT TUNAU TRRNG IRIWR  
 GNIRT DGARN IUTID WUDUN TRTWN WTRDN IITIR WIDAN IDNTI UWRID  
 RTARU RGGTW TDUNU UGNRU IADNW NDRRI WDWGN TUNTI TWDAU WTDNU  
 NUNIR ATNAD UIDIG RNIAU NNTUT UAGDU RRUDI RNAWW WTARU WDAII  
 WUNDD RWDTU GDDNG TRWRG IRTWD DRRRU GNRWD INWRT NURIN ARGGI  
 TUIUI ATITG AIDTA UGDDI ARNIR TGIUR WDRAU GUUWR GRRGT RRUWA  
 MDDRG IUDGI NTUNA UAADR GIWUI NRAGN NGWND NUDRG WTITD AAUAI  
 + + +

IWTTA IWTTA IWTTA IWTTA IWTTA = = =  
 ATNWW GRIDU TDUWN DUWTR WIIID ADTAD WDWIR DIAUA NNTII TNRAU  
 UGITU IDIDU NRWTW GNUTR WURNI WADDG UIGDR TNNGD DGGTI RWDRI  
 WRATU UIWAT WNAAN UNTIT TGWRU RWRNI NDTTU RUUNG TWRGW NGITD  
 WNTAT NRDWN GRAUT TGRWI IRIUT IDDIA WUUWI RWAUU NWDNA TWWGW  
 DIDDN UWIGR TTIRG ADTGG NRDGR WURRT TNING DRGRW RGNIU DINRT  
 DWIUW GWANI GDRTU GGDAU UIGIN DTGAI RIDTR WTWAI DDRII GGUGN  
 URUAT IRARI ITATA DNDNR IWIGG WGIIA AIAUT GTTRN AUGNG GURWI  
 KRWIT WDRTN RGGAD GGUWN DUDNU IGINR UTNNG GWNNW TDGRA WANDG  
 DUUDT RRIWW AWDWA IRIWW TDINA GWNGR UUGGI GRDGT ITRNW AGUDW  
 DWNNU RRAII ANRAG GIRWW DITWG DGTUW WWWGR UAIID DIRNA RIDGD  
 DTRUT UAGTU ATWWN NNUTA IWUTU IWTAN ARGAN TAIDA DRUTN NRUAD  
 WDTNN DRDTW NIRNA DRIGN ATIAI NUIRD IUTGR IWGWI WNWWN WUURW  
 GDATT WTWAR TNIAI UGWDG TIUAD DWDNG GDNUG RRIUW ARNAG RWGID  
 EWUNI IANGN ANNRW NWRRR URARG WAWGI DTADA RADGW GDGAR DGGDI  
 GINUG IGGRG UGIGG TTNWG TTUWR NGIRW TGTND NGRRT GDTWG NNAIU  
 + + + SK



WDRWA RWTGN IGDA

WDRWA WDRWA WDRWA WDRWA WDRWA = = =

AUIUN AIRDR TAIAD TRNIN RRUIU TTGUU IRDAW INGIU GWGDW RUINN  
 RUWNT UDGGG TNRDW ARTIW TUIRU TWTGT RARWD GRWIG NNNAD GGUIG  
 RGNTG TRGGU IUWNW TRINR ITTNU WWWIT ARDNT TRITT RUIIR IUGIA  
 NWUUU UGWAA TGGIG RNGTA NTDRN RDGWA IWWGN NNWTN WIIGG NATDR  
 MANUN AIAAR GWIUW UAWAI TRGUW GRANG AGRRU WAGIG ANAIW GDAWD  
 UIAUR IWIRA UDNGR TAIUD TARRR NUGNG TWDNW DIWTA TTNUU NURDR  
 KGWIR IAADR DIGTR DIAAR RIRGA IUDGT GWIWU NURNR TRTAD IDRUG  
 IAIDD DGRNN AWARG TGWDN GRUIU RWUUT AGNIG UDDAA NATNR GTUGT  
 ONITI RTNWG UUTIG GGWGI TIUDT WDAWN WNUUA AUWGR DIAUR AGRAU  
 MURNW UGWDG ATTWR WAWGW WGRGU TIGDD NDWGN RWINR GIUUU WWUWW  
 UDATA IRTAA TDUIG UARAG DWRTD UGGUR ATAWA TUTNA WAGGN ANWGT  
 NDWRW IGNRD WGATU TIAAA ATDUG RURIA NGWTT IIGAN IUTWG NIGRU  
 DWAIU IIADI NTGNN WITIU WIRDW NNNGW IWWGI TUAIT RWNTG RGTIT  
 URNTN GUUGN DNTWG UUDRU RAUDT WUWRT GTTNN WTAAW URUTU DDDAG  
 ANWAN NINWA DGGWU DIRTT UGGUI WRTID TNGID TRDDT RIAWD WTAAG  
 + + +

RWTGN RWTGN RWTGN RWTGN RWTGN = = =

UAGNR NNAU IUIAT TIRDT GUDNI WNWR GTIRN WIDRR WTIWR WRWAT  
 VRDUU DWADN ADTRA IWAU WNRAR UWDUN TWIRI AGIUA INDWN WANWI  
 OGGTI NDTDA DNWWD DGRUI DTIRT DTRRA RGUDD RTDUD GADAN DRATD  
 MTNGU RUUIG TUUAW TWTIN GWTIA AWWGU IDDUU RNUDT UGGGW DGDGA  
 WAATN UNDUT UGURI RNINT GUTGT TWNTI DWGDN INDWW WRITA UWTTU  
 GGDII RURGG GWINI WIDNW URNIT UIRAR URDDG UDGNG UAWTG NAWIG  
 NRDAN WIAID NGDTA TUURT WGITG AGAID GUGNG DAINI WUDWW GDNGT  
 GDGND IGNTU NGATR GDUAN TDARG NADWG ATDGR UAWGD AIRTA INNIR  
 AGDIG AIWAT RURRI GUWUR TWGNR GATNW GRUTI NRDDT TUAGN RTINU  
 DUATI GGRWT RUDDD TIGRN RIAGA GANNU RUDDA UGWGT RNTND GWUIT  
 ÄDWIN TIRGT TANAN TIGUA GWAAG UAADA DRIUW TIUNG WTANR AIGIA  
 GGINN DITDG GNIWN AANTW ATURD RRNRI RAGUI TUNTW TDIIG TUGDI  
 GARTU NARUW IDRRR INWNG WTTAN DGRWN NATTW NWGGI TDIWU DNTWT  
 RGGRT NUUWT TWNUD UNIWW UWINW ATGDT UDRNR WUIIA UIGDT RAWAU  
 TRGUI IGDWT RURDD RTTUU RNAGD TUIIA IURGU IAGIT INUIA NUURW  
 + + +

IGDAA IGDAA IGDAA IGDAA IGDAA = = =

AWTAA UWNDR WTUUR RWGID TITIU RDUUA IITAR IWNDD NWDGT NWNAN  
 UURGR WNING TRINN DUTWG UDRNI IDWDA WWDUI WINAW WATWN IARDN  
 NUWUI IRTUR TNNUU DRADT AWATW GDIDI ITIGD TTAIG AGDTG WNAAN  
 WAAIA WRGAN URRUI WGUDW IDTRI ATARR AWRRT UNDAI ADNDR RNUUI  
 NGUTW GRDUW TAANU TTDRW WNWNN DRAUD DDRDD DANGD TTTUW TUUAW  
 TUDRW DRWGR GWDWU DGIRW TRWWA NRNRA WUNGG TIUAN INWAA NWGGA  
 DADDT AIDRA UNRTG UNARN IIUAR RGRID RNRAT RWRDA NNADG UTWNA  
 DWWGR IGUIU WNRIU IRGNI DIUGN RRUGW ITRTT TUATD NNIGN GAIRD  
 NNIAU NWUUA WAUNN WGUNN DTGRN RGRIR DNIWD AARNT GITAW DTIIU  
 AUUUW NIURA WDNGU TGGDR NGIDU AUIAR TAUNN IUWUW TRURN UDAIT  
 DAAUR TRANU NGNUD RGNWN DRTRN RNWNT TNGUD GWDRN RARUR DGRGT  
 RAUGG UNWUD RRIUI GGIUU DDWGU TDWAI NGARA UIIAI DNDAU AUDRW  
 AWWGA TNRWG ARANT RWURD GIDUI DGIWA TWIRT AGRRT URRNG ANGAG  
 WWIDW RATAT IWANR IUNG D RNRWG WRAAI UWURW GWAAI INRAG NGURG  
 WRDTD GWDWR ADIUN RTRAN INWUI UGIII NGIUA UAGWA GITNT IINWR  
 + + + SK

8096 kHz, 09-01, 1408 UTC. Transmitter switched on. Windows sounds, then at 1409 UTC into a message that was already in progress. They either don't care or the messages are fake.

GG WGRG TNIDU ARNIU WNWUW RGATW WDURW WATUR AAUNI TRRDD

GDGNG GNNIR

+ + +

WIANN WIANN WIANN WIANN WIANN = = =

TDRGR WUAGT DTRRA RAIIG DAITD UAWGA WDUTD ANGUD DRGID GGUIG  
DNAII WNRUN RTNUI NNIWN IWAAR RIAUA RNDUW RIRII TTURR TUGAT  
IWIGD DTUDI TTUDI TTITN IADAN ATIWR RRRWW RNRTD DNTDN WRRNR  
DWDWW IARWI TAGNW NRRNI ANATN AAAWU UIGUA TDRAU NIRWG AAUGN  
DRGRT IGWTA WDUWT NRTAU UAAII AGNRU NAWRN NDTRR UADIR RTWTN  
IAAII UWINN ANIUD DWRWU WDITR ARGRA DINGD ADDNU NWWAT GARNA  
GTARA NAUGI NNATU GNITU DRTDT DIWTA ARGWT WUAGN NDDAN WWGTU  
RNWTT DGUUT GARIG TUIDR TAGDI ARRAR RRDNT IATIR RDURA GDUTA  
NAIAT ANTRU DTWUW TGAUR DRWGN TAART RUNTU TINAD GIAAI RDAGT  
DADTD WAGNN UGGDU AWNAD GGAWI URDGT RATGN WNIUN URTND RUGGN  
WDGNU NIWUU TTRNT UGIAU RAUWT WAIGW NWGIN GIWWN NNIUI RGINI  
GRUDR IGNGW INUAR ITDAD IUUGR RAIUW GDDDG IAAAI WNDTR NIAAA  
TTDDD RUGAR RNIRN WNWDW NIUWD UARIT WUTDT NNGWU DNWTD WGGAU  
RDGGN IANNU IDTTW ANGDN WGDGN UTUTU ANGGW GTDNG DITRT RUIIT  
ATUII UADGD RGUAI GTWNW WUDGR GNNUA UWITI IRTRI WIDAW IDNWG

+ + +

RAUWA RAUWA RAUWA RAUWA RAUWA = = =

UWNTW UIIIT AWGUU TTDWA WAIIG IIAAR IRDWT DADDI DTGTR RIINI  
TUWUU DIIDN RRDGW WNGWI TWGAT WTTGU UGUAI DRNRN DITNW NGRUT  
AIGGD IWAID IUWAR IWWGN GNWDI NDNUI ITIGN NUWGW GNDAI TGDWG  
ANNUU UNNUA GADDD AUUGD GGRGT ARAWU WRNRA IIRRI GIWRA GAWGI  
WIWWW RGAWU ITIUN GGUWW GDGAA GAARR DDTRW RDUWD AUIUN ANUUR  
DWRTR NITTT INDID GGWTA RIWNU WITID TDATN IIDDW RGWUA INWGA  
AUTAI URRAR NUDNT DGRIA TIWDA GDTUI DIGGD IGWDW TTDAT AGGWA  
DNRRR GNDRR TWNNU RIIGD TURNW IRTIG AIDIU DGTII TURAN IIAWT  
GNDAT INTGG ARIGI RUTGT IGANU TATDN TIGAR UTITI DGINT RIDIA  
UDWUU ATDDD WWUUA IUNGW DARAT IIARD UIUNT UGGWR WTWTW IWDIU  
RIDNW GUDGG IURIT TIDAR IWIUD TNWDW GWINR WIUAA GIIUU DIIAA  
WRIRW GWGAN RRIUR GIGGD WGTNU ITDWG RRGRU WRWIW DGRRD RNART  
RTDIU UUWUD GNGUG AGNWU TNANU GDGTG GTGGG WTRIU NNNAG URAGD  
RGDRI DDRWU GUIAN IRADI INAWA DGWNR WGNTU DRDDU UNGAN GWUIN  
IWUGR RRTUN INTGW WGIDT TUUNW GITRW WIUWU DGNAG NNRNA UUIAN

+ + + SK

AWTIA NIDTN DARDN

AWTIA AWTIA AWTIA AWTIA AWTIA = = =

DTAND DUTAI AUGUN GAGRG IAGTG WRWIA TDUNA GNTGW TTDNU RNWGU  
 AITGT GRRID AIDRU TANUW ARATA GUUNT WURAR GNRDD NUDNI WGIWA  
 GRNIT DUIAD RIGUG ARRG TUDGN TGURW INRII DDGGN UUATG UDNIR  
 DTANU GRUIR UTGUT DIDWW DWUTW UTGUU NTTII GNDGT UGNAA UWDDG  
 DNGTR GIRDN WNRIR IGRAN UWDTW RUGNG RAUAU IUIGG WAGDW GTWGD  
 RUAAU DWTIN TRTWD DTTTN AAWIU NNAAG TTITR DGIGT GNWDA IITGI  
 UIITA DNRI GIGIUG RIIIN WTUND DDRUU TNWUU IDANI IRWRW GGNRG  
 UTNNT ITAIU AAWNR URWGN TDAUR IGUIU DGNUA NTNRU AADDN GIRDA  
 IUDUI WWRDU NTIIG NIAIA TRWUT RTTRR NGITI IARGD ATNUW UATUI  
 RWGNN IIDR DAUAA URDIW WRTRT UGRIT IWITD GWDDD GUTDN WDWUW  
 RUNTD GDRAI IAANA URGGG RAGNA UTGGT DUGAN WINUD GDUNT UUDUG  
 NGDIG RRWTN DUNUG UWDID INAUW WGNIU DUIGD UGRUW TRTGU DNUGI  
 TIAWA ATNDD IDUIT DUADR GTIGW DWWT NNGUT ITNGT RGGRN WWUUI  
 INWUN NURRR DIWIN NTAGD DDIGI RTUGT AWWTD DDIDA AARNU GUAAG  
 DTDUI UWAGW AUWIT WNRND WGRUI RTNDG GDTRG NRIIT IWTDW RAARU  
 + + +

NIDTN NIDTN NIDTN NIDTN NIDTN = = =

GDURA GAWAG TDDWN ANGAW NGIDR WTUTI GAUAT INRUR IURNI IRUWD  
 DIADT GNGGW IATGG NUWTT DANND GWRTR RWUDN WNGAU WDRRT NAWAI  
 RADNW NWAII UDIDR DWIWW NGDNI INGRU GADDI IUDTR GRTIA NIIUN  
 WADTI TTUTI UTANN DTRRR UIGUI GATDN RUATU UUGNR WGWUT WDDGI  
 TTIAT NUNUA WUWUU RTAGW DGINN ITURD DARRT IARIA TRGNT NGGDR  
 GITRU NGWUN DTGAT UTTWN AAITW RTNDN NTDAN AANNR GATTD TWUGW  
 TDRGN AWUDA ATUIT NUTNR ARIAG UWUGI GUWTR WWUTW TIWTA GGDUA  
 NUIWT TWRNG NUDNA TGGRA TDIUU IRATT GIGNN ITGGN TUUWD UUGNN  
 NRTIU UADDU UANUU ANDTD RIIRT NDDDT NRWAN RWRTU AWDTT GUAAT  
 UTRRN TUWTI RUDII GDGAA RWRUA UIGUW AWIDN NIURR RIGNR AWDUN  
 DGWRN GAWTT TRAGR IDGRW DIATG IDDDI WNNWT WTTRI GUDNR GUWNI  
 NWITT UNRDD NUTNT TIWRU NGGDD IGNNT WTNUU WNDDT DAATG IDATU  
 IUWUN DTAIA UAITW RRRUU GRIIR WRAUD NADIA GNNAN TTDRU DWUDU  
 RINUN RGIWD TNTWD DIUTA ANTNU IWAAR WNAAG IIATI DWTWR INDDU  
 RADDI UTTIW ARNNR AAGUI WDNWA UWDWR RIUDA GTGAA NATWT RRADR  
 + + +

DARDN DARDN DARDN DARDN DARDN = = =

RAIGD TRIGN RAGAG IUGAG NNRAA RGINW DADRI GITRD UAATI DRNTI  
 AIAII DGAIT ARRDU RUAAG TGNRG ADURG DAIWA INAWA WUTWW AANGA  
 RRNWI WNUDG TRRDA IRNUA RRNRW WWNTT RTAAT RAWNI IADRN RGUWG  
 GGUGR WTITA DUTUW DDIAU NDDWA NWNNI UIUWG TAGUU ADUDW RWGUA  
 DWUTI WUDTU IAAUN RURNW TRWGW IWWGG IGIDN AUWWT UGGNU GRTNW  
 DUIUN INGRR TRAGN NRTAI TRWWA WAWDU AWRNRW INAAA AINAW GTTAI  
 RUUAU NIDIU ARWIN DAWGD ANRRT GDWNI TARRA UNDRT GGNNI RARTG  
 AATGR UDWTN UWWNT RAAAA GGGWA NNIAT AWRRT NIGWW UTATA TIWNG  
 WUUIA GWAUR DRUDI NNNNA UWWDT UTIGN ARTGU GWWDW WWITW GGIAI  
 TDTIG RIIRW TGTAN RIDD RITDI RRNTN NTNIG GTAIT UGIDN ITGIW  
 UGWGA WDNTI IATNG WIGIG RUIGT WUGDA NWIDN IGRWD NNRGD ADDNU  
 DWADA UGDUR NGWAT WGWUW IRWNA TINDD WRNNA DIWGW WTANW URDID  
 WIANU NTURR DDNIG AWDDD AGAIN TIDDD WTDTR ITIDD GUNIU IUIGD  
 AAIAG RARTN WUTRT DGDUN RUNAD UATAN AURTI GRTWD RNUIN UWWIT  
 DANNA TIGUU NITAW DDGTA AARRN URAIA RTTRA DNAGD NNIGG ANIIW  
 + + + SK

**8097 kHz, 11-01, 1403 UTC: HM01 AM/RDFT LSB**

Very noisy transmitter. Two HM01 transmissions mixing

**8097 kHz, 11-01, 1413 UTC: M08a CW LSB**

Windows sound at 1413 UTC, followed by a M08a test transmission sending ANDUW RIGMT for 34 minutes. HM01 still weak in the background for a while. Transmitter off at 1449 UTC

Recording:

<http://www.numbersoddities.nl/HM01mix-M08a-2018-01-11-1403utc-8097LSB.mp3>

**8096 kHz, 11-01, 1416 UTC**

Noisy transmitter on at 1356 UTC.

Windows sound at 1416 UTC, followed by a M08a test transmission sending ANDUW RIGMT for 41 minutes.

At 1558 UTC Windows sounds after which M08a stops.

Transmitter off at 1600 UTC

**8096 kHz, 17-01, 1356 UTC**

RGIUN INAIA GWUTA

RGIUN RGIUN RGIUN RGIUN RGIUN = = =

GIWUG DIGRG RAGTA GRTNW TTNRR RDUUA TNGTR AWGTR WRRWD RTRIG  
INWRD IIUIU NWUGI RDNWI WIIID UIWTU UANDI NWUNI UWUTN AIGUW  
TRIUD WWUTG WRTTI RUNDN IUDDA NWAUN DDUUD TAGTW UATAT RARNA  
GTTAD DIUND GNDRW RRRAR NINRA AWRND NURAW ANRRN WIWTD GANWA  
TGWUD TDTRU NDRIT UGWAH RIWUU TRUUG IWRUN RAWWT TWITT WRTRD  
UAWTW NTUWN WUTNI TNAAT UAWWI NIDTD NNNRR TGTNN ARAWU NTUDD  
AWTWN AIRGR TNTUA UAWTW NDDGI DGRTD UAGGT TUNUW UNDND DRTRG  
DNTNR IDDOI UTINR WRDGA RIWUI IWGRG IGWRR UAGTW NRIWT GITGN  
GANRI AUATR WARIT AGGRA TGWGU IGNIG ANGNR RRIAS IDIRN WGTTW  
INTAR NAUIW DIDRN AADAN ADNTD RGNWA DGRIU NTNGI DDWAN AUDUN  
NGWNN IDUNT NANWT DUNTD UTAND IIRUN UUNUR AAUWD TTRUT UTTTI  
AIIIT IDATU GRTWR IITIW WGAAT TRIDI UTAGU UUART GAWIA ATWNN  
DDTTI GNWRT TIDGR IUGUN RGRRT IUGND RIWGT DNNIW IIAUU UWWTW  
WARRR IGDII UTWRU DWGND RIUAN AWWUG DDRNU GGWRD DGGDU RITGG  
DUUDU NWWGN WIUGD GINAW TIRNA TDRUD RWRGN RGRUN RURNR TAGIU

+ + +

INAIA INAIA INAIA INAIA INAIA = = =

DGNGD WTAGT TWRNA UARWD RUNTW AAGUR WRAAA ADTGI UNUDN UDDUG  
TNGGR NRTDR NWGNA GGDTR IDNNG WIGRD DGAIT UDNGN DUGRG GARWN  
NWDAN WUANU WRANR RADGN RIRGD AANTG TUURN RRNAU TRTIA RGWTT  
TIUWU NIWGW NNWNU DIIRN NNTRA GTDGN WGTNU GIADT NNNNU IIRG  
UDNRA NRUWR NGRWN GWWAD NUWDI DNWNN GWDNI NIRRD AUDGU WATUI  
NNNGR RTWDD WNGII UUTAR RAAIA RRRUI WRDIT UWRNW GIDAW UGNTN  
NIDWN NTTUR RDAAW WNRTD TRDAU WGRUW RRDAN TUUDI IUAGA ANAWU  
RRNDT UARWT AWUIW NRNTD GAWGA UNTRU IUART IIWDI IUITW INAGU  
UINUT GGAAU RWUTG WIAUG ITWRG UWRDI TUUND ATRUI GRIIU IDIAD  
GDWGG UANGT UUTIN ANAWU GUIRG UUNWW TGNW NGDWG NAWAU DIGAA  
TDGGU UNUDN GWRII DWNTT WNUAN AITTN AUAID AUIRU RUNWU ARRUI  
DAWNU WDRGW WGGDN ARITA WRUIW NINIR ADNTN IUAWN WGRNG NDIRI  
GATDD ARURT UUDGN DWDRR GDIRW NTDRD WRDIG AURNW URRIA ARDTD  
UDTUA WTWIN DWIAT DUDND IUIWA DNARW RADUT NRIII WAUTD IWWND  
IDTNW UNDRW WNIUA DUUID NRDUD WWNTD TIGIA GGWRG UADRA WUGUI

+ + +

GWUTA GWUTA GWUTA GWUTA GWUTA = = =  
 UUWDR RIGDT NITTD ATWDN WRTTR AINWD IUDDG RRTTA DDRUI DDWDA  
 IAADA ITNRW TRWGD GDWTG UDANI WAWRN RUWRG WNNTI GDNRW TRWIA  
 WIRRD GIWDN UUTTR GGAWG GIRNW GWNWA DUNGA UUTGN GWUDD IWIAU  
 NNITD TRNNU URNUU UGAUW RTNAN UGNIA WRANU UUUIR ARGTW GNDND  
 UUNTI UADAN GGAIG RDTNT DWRAG DIRTR IIGRW IIDRR IUDUR WAWWR  
 UNUUI GNDDT UUUUDT GINRA RDIRI RAUND TAWNR DIRNM UGADW AGWTU  
 DTDDA RNRAI NANIW UGDDR DUGAW URATA WUDWA RTNNT UWDUW NTGWG  
 NTAUN MAUGR TTRGW UIIAN GWIUN TTIGW UWIAW DAINI ADRGT WNGRT  
 TUNGR NRUAU TDTUW DWRHD DWDRT ARGNN NTRRA RGTNR DRRTG WDUWG  
 TIIIA NDUWW RGANA GGGTT AGIAR NUUWA RIINR AAAGA AIUIW IRIIN  
 NAWAN IUWAG RDGIR NDAUA RTDGR TADGU TWNGW IAUTW DGUGG RGIIT  
 UUAUR TIAUU DIGAU IGNRW TDDID UIAWU RGTUT NDATW IGTDA ITINN  
 ITRDU GRIII TWUUG WAIGD RDWUA DTUUT ADTTW WTADG DDHNU AUUUA  
 GNTRU DIGNR TTRWI WAATW RGAWU TRWND IDTWA GIWRG RNIDA GTANI  
 IWATA TDWTR UUUWR AAIIR UIGWT AWUDU UUNRW RDWII DNWGA NTAND  
 + + + SK

8096 kHz, 29-01, 1350 UTC, loud noise, then at 1413z into the 2nd message that is already in progress

DTTUW UTWDG NRGDD ATDDT NTGTR WWUAU NNTNN GTNGN TRUNT WGWDA  
 RNRGR TNDTT AUDRG IATDG RWTUA UNWIA DTRAR GNDUT AIWUA UDTUD  
 DUTNW RUUAN NAIWG NIUWW WTWII AUUGT UIRTN IRIRA DGWWG TGTNW  
 DRIGN GWRAT UDNIW AITDR WUAWT DTITW UGNUM ANGIR RUARD DGTIR  
 TITDT UTGRW RIRAG RGDTT ADNWD UUTNG TIWGW WIDAG UNDAI NGGRR  
 NGRRR DAWUR NWNTN ARNUR IAWUT AWRGN TTWIR IIAWD DTINN ITIWU  
 DRIII GGAUI DGUUA DWRDN AUWGI GITNU NAWDI NGRRI DRWIR DRINT  
 GIIWU TGWWW UWIGW IWIAN TRGNN WGNDD WUTDU IRDDU NGWTT IIDI  
 RUUAU IUDRW TNRID RITNR TGNDT RATUN GURNA WWTRA GATAD NANWW  
 NINND AAWND DRWWA TURUT ARARW TADNI TUGRN IGTG NTGRG UIATU  
 RNADU DRTGU WWURI AAAUR DTUTA IANNN DWDUR UTNIA NNGGI DWAUG  
 DDADN UITIT GIRRW AAANR WDDAN UAWAI NUGDR UDUIW GWWMA DIRDT  
 + + +

IGDGN IGDGN IGDGN IGDGN IGDGN = = =  
 RTNTU WGNUT NUTTR WRNWA ANIUA GDNRW DWTAK UTTUT ITITG WGTW  
 NRGNG WRWDG TGARU RUDTN TUNWR IIRII NDRTR INTUI WRGIW IDNUD  
 AGDND NIUR ATATG RDGNU RGRGT TGDDR MUWGT WRGTU ARIDN IWWIN  
 NNGRD WTWND RNIRT ADIAA UAATR TDGUI WTAGW IGITI AWWIA NGGRM  
 WNWVN UGINU GRRUR ADTGT UIIDN TRNTI NWDDR DWRDI IWTAR GIDTA  
 IIDTG UDRRT UGNIT NTNIU GTGTG GARIT LRGDD NRATU AIAR TADIU  
 TNRWN NWANT GNADW UTTIT DWUDI IUGNU AANNT NATGW DDUND DINDN  
 DWURN NAWW RGGTA UWUWI NRGGD RTTNR NGDRU IRGIR UAIRI GIDIG  
 MDNRU ANANN IDTAD UINDU GGTWG GTATD GADAT RNUNU ADRNW DWTIG  
 NIDIT RDDTG UTGID DGNIG RNATG TIIAU GITRU AWWGA TGRNN DGTRA  
 TNGND ARDNA WGRIW NTTAT ARDAG RDRUN TWTR GNAIU UTUWI UNTAD  
 ATWGA IDWAN IIURU GGAUT NURUT UIWNI UGTWN ARNGG UGDRR NARUI  
 DARDA NUTRU ADTIA RIGTD NAWAD UNTAW IURTG WWUGA AUDAI IUUNN  
 DTNRA INRRN AWDTA GRUTG UDATT WIWDI WRUWA TUUUG DAINI AWWAD  
 RGGUW NRDIT NRGTW UNTWA RDIDD IGRIT TTRTG NRAUR TAGDD DURRU  
 + + + SK

**5361/4461/4061 kHz, 10-01, 2200/2220/2240 UTC**

340 340 340 1 1128 147 1128 147  
45980 95520 44886 74916 93660 39607 22095 53342 75053 40804  
30158 31374 03386 76054 37753 58297 92832 67271 20775 35313  
42020 24626 09849 02552 79100 77164 59114 34115 14312 28512  
72301 18760 73182 25404 87878 57462 86330 75205 73833 62071  
34198 86102 98143 57168 46030 91218 06600 84975 59861 38509  
89349 91016 74484 79717 47852 35304 60553 80338 25985 15769  
59084 33326 42762 53645 88293 89976 53103 50002 48022 91125  
56245 26719 27253 17567 00850 90940 78517 58254 28146 53832  
24357 10098 06592 98085 00376 11331 91179 55459 29211 34153  
76045 52177 86536 72665 91444 70492 72571 47129 27232 76846  
67608 62356 61137 26015 08639 52818 78440 15914 03765 72496  
46809 81909 42740 54529 46045 12504 81497 93819 76241 22953  
30697 57155 05463 38469 14872 63759 68302 23125 18920 46065  
00720 88402 65704 20114 32005 95165 55456 12632 49280 57060  
70230 66773 53287 61727 42899 78926 49653 000 000

**7692/6792/5892 kHz, 11-01/13-01, 1310/1330/1350 UTC**

678 678 678 1 8263 81 8263 81  
89938 78190 22968 11135 43570 97401 18252 93867 41554 57535  
93751 91220 85977 78653 26815 05804 69316 77977 82687 63083  
78551 75699 66631 39533 93940 73436 04375 27925 47619 79058  
62604 90071 33518 57089 34519 92342 01292 57285 80413 75674  
42033 13481 40037 87970 09026 80496 54671 95104 02566 79664  
26232 50457 16400 79830 69477 67324 37110 05887 48536 32164  
88012 43149 44173 90692 14520 18340 36038 47067 88673 11949  
42148 25272 97153 10095 43752 94477 38290 72670 77934 57294  
38970 000 000

**5838/7438/9238 kHz, 13-01, 0600/0620/0640 UTC**

842 842 842 1 1128 147 1128 147  
45980 95520 44886 74916 93660 39607 22095 53342 75053 40804  
30158 31374 03386 76054 37753 58297 92832 67271 20775 35313  
42020 24626 09849 02552 79100 77164 59114 34115 14312 28512  
72301 18760 73182 25404 87878 57462 86330 75205 73833 62071  
34198 86102 98143 57168 46030 91218 06600 84975 59861 38509  
89349 91016 74484 79717 47852 35304 60553 80338 25985 15769  
59084 33326 42762 53645 88293 89976 53103 50002 48022 91125  
56245 26719 27253 17567 00850 90940 78517 58254 28146 53832  
24357 10098 06592 98085 00376 11331 91179 55459 29211 34153  
76045 52177 86536 72665 91444 70492 72571 47129 27232 76846  
67608 62356 61137 26015 08639 52818 78440 15914 03765 72496  
46809 81909 42740 54529 46045 12504 81497 93819 76241 22953  
30697 57155 05463 38469 14872 63759 68302 23125 18920 46065  
00720 88402 65704 20114 32005 95165 55456 12632 49280 57060  
70230 66773 53287 61727 42899 78926 49653 000 000

**10547/9047/7547 kHz, 15-01/17-01, 1400/1420/1440 UTC**

505 505 505 1 8424 69 8424 69  
22691 16940 73244 21708 94103 50897 85040 34500 14797 36006  
65632 81746 30425 01366 12426 89555 70011 05886 20456 21606  
23907 52297 91997 12018 43213 16797 51191 74685 44917 99373  
84003 46069 44324 13001 90391 34186 50196 74310 71505 18287  
93986 31249 06027 20425 26458 60337 88655 71259 18986 00078  
16146 53341 54231 25033 92647 37419 27877 47217 13028 26400  
37387 08104 75167 13119 06144 34350 39953 95505 42220 000 000

**9176/7931/6904 kHz, 17-01, 1800/1820/1840 kHz**

257 257 257 1 2787 134 2787 134  
69444 80411 64448 83306 94337 94137 65726 78943 41204 94813  
92350 00596 73529 43614 78404 35110 34720 12590 52501 83991  
56026 67097 79626 07713 18879 72570 06069 82180 43386 65342  
52315 81953 45621 30305 43187 37008 28346 55764 63626 30202  
70804 91185 20560 19591 30876 16098 15079 28467 30077 78188  
17470 13937 42146 84960 79973 40807 14662 65561 63289 40810  
54920 40105 20417 75987 42716 76724 47988 33604 04340 89399  
24258 84383 30099 79154 64560 02678 41326 08880 79567 07995  
42424 18759 72550 56908 81531 79039 45617 35261 42555 44966  
93143 09283 41276 31783 61735 09359 65177 99654 96184 37604  
42472 18996 29541 90160 02482 44511 21083 66006 51715 83025  
56985 44949 03671 50525 19388 52214 58642 05130 76368 10036  
52876 74011 83911 21953 13101 19776 87470 80049 80967 48128  
48131 79765 00130 36516 000 000

**13369/14669/15969 kHz, 18-01/21-01, 1010/1030/1050 UTC**

369 369 369 1 6565 75 6565 75  
49743 87939 89818 48740 76798 36384 23576 77678 02800 02278  
04221 19605 43149 04449 44512 46165 81663 51590 70829 37834  
95005 07546 06904 43267 44298 21555 91213 55077 09473 35238  
37925 35448 34644 82300 72970 76873 35308 03904 52987 77418  
61319 62345 14614 53246 87828 16774 47444 91800 27793 63881  
52546 34808 70348 74933 59429 80798 80930 28083 65191 16188  
06758 34374 06067 59232 17583 35979 69853 13830 20464 38595  
58442 18269 25299 11454 46905 000 000

**14377/13461/12114 kHz, 18-01, 1700/1720/1740 UTC**

317 317 317 1 9818 110 9818 110  
14767 11068 81814 39871 77193 09986 42180 36158 48672 29936  
96475 22486 95761 52978 64511 10880 95434 35167 61274 64393  
39299 64096 76635 31468 21336 63111 82499 58578 36748 36124  
06784 76327 44856 07256 79835 38384 64612 66610 76689 28601  
59819 77498 20290 26267 04407 43160 24919 76333 56501 82501  
42681 78079 14522 01828 68465 14492 02510 55284 65664 78476  
17037 71430 90535 95406 31883 67221 57700 18616 06878 35906  
22557 67159 13503 13589 40792 33518 37867 31171 66091 63428  
74421 66356 05990 40285 52727 35096 84184 42169 38013 33548  
79886 37844 91766 81381 80819 25995 6578J 66138 32531 41525  
22894 64993 25140 41590 15295 10564 74861 61576 82947 93801  
000 000

**8047/6802/5788 kHz, 24-01, 1900/1920/1940 UTC**

463 463 463 1 7474 147 7474 147  
70679 07548 34744 17483 87063 77911 24659 07237 41474 53051  
39782 66068 35221 09972 37990 42986 43042 02795 15275 35793  
78263 92913 57445 81394 41030 63291 95205 25731 51300 96548  
17319 64586 21068 31673 86351 13141 78863 18807 84440 36563  
49774 11154 47507 08747 45222 03212 93154 56286 10798 14424  
02995 71804 87805 82003 44132 65845 19976 68767 14496 53986  
23043 98352 33803 76154 22136 49565 72540 43632 20029 72862  
14182 50073 43588 56228 64142 07539 62501 76382 40405 26940  
09055 14174 97480 48404 59774 33654 88613 81370 92935 55539  
09196 29339 46801 47160 12031 48326 81567 25525 46761 69290  
10626 87238 69027 28871 89752 64798 62375 15825 57115 99727  
17855 13967 61398 06667 74440 84356 86009 92476 89549 11364  
37272 26977 56346 17137 48103 32179 74264 83708 67765 62690  
26960 41401 26580 75257 35554 88829 47538 91997 10602 39382  
72686 24632 23428 56971 03947 46374 41936 000 000

**5361/4461/4061 kHz, 24-01, 2200/2220/2240 UTC**

340 340 340 1 2009 129 2009 129  
02901 51718 30626 70709 39870 43608 56360 32991 54272 78232  
37871 63892 15413 07076 40626 50751 95732 22405 86046 36839  
80072 35319 40927 43547 73839 27343 34151 58559 42494 00239  
87614 52245 96016 72614 09325 35464 49566 30835 01322 38933  
81133 04287 87990 67874 04526 25597 50633 22012 12944 66772  
94866 10607 93879 78902 31457 04110 00639 19586 74717 86875  
35308 30048 52814 44725 17763 39212 74755 61332 06637 56063  
35745 95234 28939 18544 22646 94985 76079 32765 50751 28422  
95759 86302 39069 13327 42108 65513 78559 70600 19601 07113  
28355 98122 79094 72157 87301 92268 65730 45917 33280 33956  
90585 07754 76424 31672 32215 29609 26091 14627 72744 68364  
57051 67713 83702 89889 34153 97930 22006 45693 23052 07290  
04303 79428 89893 24641 04567 38513 29672 69567 14963 000 000

**7692/6792/5892 kHz, 25-01/27-01, 1310/1330/1350 UTC**

678 68 678 1 233 125 233 125  
08258 75474 21610 37858 47580 95395 59831 97963 51965 97273  
40572 59965 35709 54571 28283 62088 08717 99407 25891 05982  
20613 43809 31998 03041 35823 68885 81925 03811 77711 88961  
35543 24004 96658 02292 94553 35030 57679 61973 56316 30018  
93619 28101 68715 08219 48368 39638 19760 74555 36286 28364  
27894 20866 09383 90419 48182 99827 91295 57759 61106 57694  
98983 31654 13815 67409 20476 00968 69126 36088 42477 67551  
75332 53985 00459 81590 34186 13017 17304 49819 53873 90049  
40670 56255 80348 54880 72531 35746 69840 39156 33600 85448  
26920 73926 87675 51916 90410 40654 16381 86987 04052 94834  
81753 52835 67313 76095 27065 75843 90297 62324 86347 55922  
03657 53954 39666 43417 54880 76489 52098 69912 28269 58410  
34277 56490 87363 00384 49854 000 000

**5838/7438/9238 kHz, 27-01, 0600/0620/0640 UTC**

842 842 842 1 2009 129 2009 129  
02901 51718 30626 70709 39870 43608 56360 32991 54272 78232  
37871 63892 15413 07076 40626 50751 95732 22405 86046 36839  
80072 35319 40927 43547 73839 27343 34151 58559 42494 00239  
87614 52245 96016 72614 09325 35464 49566 30835 01322 38933  
81133 04287 87990 67874 04526 25597 50633 22012 12944 66772  
94866 10607 93879 78902 31457 04110 00639 19586 74717 86875  
35308 30048 52814 44725 17763 39212 74755 61332 06637 56063  
35745 95234 28939 18544 22646 94985 76079 32765 50751 28422  
95759 86302 39069 13327 42108 65513 78559 70600 19601 07113  
28355 98122 79094 72157 87301 92268 65730 45917 33280 33956  
90585 07754 76424 31672 32215 29609 26091 14627 72744 68364  
57051 67713 83702 89889 34153 97930 22006 45693 23052 07290  
04303 79428 89893 24641 04567 38513 29672 69567 14963 000 000

**9176 kHz, 31-01, 1700 UTC:** Mark on freq. Nothing else on any remote receiver. This one not usually heard at this time

**7931 kHz, 31-01, 1720 UTC:** Marks here too. Possibly transmitter problems or attempts at jamming?

**6904 kHz, 31-01, 1740 UTC:** Nothing heard



**9176/7931/6904 kHz, 31-01, 1800/1820/1840 kHz**

257 257 257 1 2403 149 2403 149  
 00031 75179 40665 02858 41440 61269 02539 11138 65007 68279  
 17337 71996 20175 96971 51429 99001 47398 43170 07134 05166  
 45057 01794 74740 11529 49775 46831 77437 22188 22376 84644  
 83426 27073 36937 04183 02336 61037 63212 25020 73114 39042  
 35482 34047 40624 90515 20979 39941 61580 43637 70052 35528  
 62883 71244 39697 56399 06462 96136 45848 32165 16487 98848  
 16806 76222 37875 11685 45691 24736 65012 85653 94729 05085  
 90338 03727 61200 57152 80526 19213 05148 30332 06009 14701  
 18718 96746 88028 11378 05029 85791 44150 84424 51289 70324  
 80501 84067 37521 31317 59780 29788 41033 98991 04815 56617  
 10314 58871 60891 64106 73504 16257 87525 50490 82183 30609  
 99953 67332 96947 72677 21214 31457 18796 44254 57125 72158  
 23285 94150 07531 34019 31363 06102 75264 96643 53141 52846  
 56704 73909 05303 00076 38477 68277 79051 69496 04663 64137  
 74669 12696 29117 01546 49067 84100 37590 18688 41519 000 000

**8047/6802/5788 kHz, 31-01, 1900/1920/1940 UTC**

463 463 463 1 8328 141 8328 141  
 64541 48033 37718 85805 75451 55365 44105 72087 35210 03679  
 10936 57879 20379 36623 93481 28231 98817 63031 03797 83517  
 46099 22170 25125 70570 26526 78050 49913 08100 50026 27792  
 71782 52852 44205 51080 95290 53865 86509 30960 87636 60365  
 05744 72114 91053 57180 70601 13816 56496 94117 99248 93113  
 02886 39065 82211 95600 42970 87854 86624 83602 73587 38972  
 39669 17901 24871 09626 63224 94157 34107 83925 66643 16170  
 65635 64080 80049 32373 73819 18316 22484 42262 19250 29593  
 96782 32298 23660 96869 27160 78572 33393 79688 50739 91092  
 48348 48172 70706 61650 51336 66850 68452 33020 31350 66262  
 31597 45683 53923 37546 77764 87970 11484 92554 16985 36779  
 31456 68131 12466 57430 18714 09393 63369 00789 50657 71122  
 26271 20798 43507 67262 24388 72847 54072 25623 99250 68699  
 56038 02091 48547 32850 77112 17671 00852 74520 92669 13315  
 84860 000 000

**M14****5825 kHz, 01-01, 0000 UTC**

376 241 241 40 40 = =  
 34526 36452 73654 83654 92635 32413 26478 15236 83764 91724  
 17236 92783 47536 29167 81724 73564 17625 36452 17625 83746  
 91726 63745 28651 16235 92673 46372 18726 36452 17625 38763  
 35462 78364 18725 93748 17625 36213 27653 87465 39826 18726  
 = = 241 241 40 40 00000

**5430/5560 kHz, 06-01, 0800/0900 UTC**

171 707 707 23 23  
 34256 76845 89056 76834 89723 56723 78923 10201 78912 89032  
 89034 56775 89034 12367 89326 89008 34512 76675 10101 78934  
 56564 89043 77277  
 707 707 23 23 00000

**5240 kHz, 07-01, 2300 UTC / 5825 kHz, 08-01, 0000 UTC**

**Different repeats between brackets**

376 263 263 47 47 = =

24315 75648 94857 26353 17254 73673 18291 29364 18653 29374  
74653 25318 02834 54653 (74653) 18524 94736 24351 72653 91634 27635  
73652 (53652) 73654 16253 28361 91872 83652 16243 64783 92763 (54763)  
16253 25143 73654 28763 92763 53426 93827 16425 38271 93874  
28716 16253 27653 18726 82763 16425 63524 17652  
= = 263 263 47 47 00000

**4761 kHz, 10-01, 1920 UTC**

748 707 707 23 23  
34256 76845 89056 76834 89723 56723 78923 10201 78912 89032  
89034 56775 89034 12367 89326 89008 34512 76675 10101 78934  
56564 89043 77277  
707 707 23 23 00000

**5430/5560 kHz, 13-01/20-01/27-01, 0800/0900 UTC**

**5240 kHz, 28-01, 2300 UTC / 5825 kHz, 29-01, 0000 UTC**

171 732 732 32 32  
98878 54347 07091 00700 34512 56432 07054 54632 87956 45321  
98021 07051 75634 78643 54654 87943 05082 13267 92935 01070  
90091 54532 98213 05056 67834 56734 00100 63728 98458 77277  
56734 98890  
732 732 32 32 00000

**5240 kHz, 14-01, 2300 UTC / 5825 kHz, 15-01, 0000 UTC**

376 725 725 25 25  
45323 09898 65423 76878 65543 23443 23121 09087 54237 78452  
23541 09099 43265 77177 89982 00709 54543 07089 13265 82836  
09901 56732 89346 01070 67812  
725 725 25 25 00000

**18041 kHz, 15-01, 0500 UTC**

952 683 683 50 50 = =  
22840 33340 16868 21602 65531 35420 05836 36536 76901 06942  
92554 94479 82415 83696 73335 38778 82754 63896 88232 89970  
54278 79211 19995 57950 10123 69034 09114 38621 64140 68901  
39690 59319 64845 49010 75772 80608 91585 63775 52887 72371  
30086 98355 54417 14496 69597 23089 27545 95297 88795 91781  
= = 683 683 50 50 (no nulls)

**5430 kHz, 20-01, 0813 UTC, followed the 0800 UTC transmission**

7583 22285 16516 23564 76695 35296 05405 75229 73601 61370 71150 154S then off

**5240 kHz, 21-01, 2300 UTC / 5825 kHz, 22-01, 0000 UTC**

376 456 456 25 25  
34253 75648 07912 73546 25367 93521 64537 34218 93521 09362  
92631 47864 35263 81527 93627 08734 26351 53421 04625 99465  
74653 53421 84635 03564 73524  
456 456 25 25 00000

**4761 kHz, 24-01, 1920 UTC**

**32 groups announced, 25 sent**

748 775 775 32 32  
55676 43289 91825 99115 77722 54823 92834 00732 84567 00168  
89245 07171 39178 42435 89712 36897 29573 43567 67891 44321  
77345 98712 39285 57913 66432  
775 775 32 32 00000

**18041 kHz, 31-01, 0500 UTC**

952 348 348 60 60 = =

39198 47346 30924 51685 38325 53103 96939 01020 46804 32189  
 13979 85196 17190 04569 42887 88497 46157 04966 88982 71088  
 77379 40977 11429 09614 73248 95442 53790 43745 16386 77729  
 19222 45882 26869 53632 38729 56179 06124 08578 05923 50091  
 43413 23813 76724 30629 45858 70273 57439 62509 77936 49808  
 29660 90084 21386 38465 85412 08347 91453 11506 71000 72880  
 = = 348 348 60 60 00000

**M21 - Russian Air Defence Forces (Во́йска ПВО Voyska PVO)****5860 kHz, 03-01, 0949 UTC**

=26100901160702

=991249??0?????

**4221 kHz, 03-01, 1415 UTC**

=16100459212715

=16100459212715

=991717??0 ?????

=16100459219116

=16100459219116

**4349.5 kHz, 03-01, 1811 UTC**

=992111??0?????

=992112??0?????

=992113??0?????

=992114??0?????

=992115??0?????

**6463 kHz, 03-01, 1905 UTC**

=992205??0?????

=992206??0?????

=992207??0?????

=992208??0?????

=992209??0?????

**5860 kHz, 03-01, 0949 UTC**

=26100901160702

=991249??0?????

**4221 kHz, 03-01, 1415 UTC**

=16100459212715

=16100459212715

=991717??0?????

=16100459219116

=16100459219116

**4349.5 kHz, 03-01, 1811 UTC**

=992111??0?????

=992112??0?????

=992113??0?????

=992114??0?????

=992115??0?????

**6463 kHz, 03-01, 1905 UTC**

=992205??0?????

=992206??0?????

=992207??0?????

=992208??0?????

=992209??0?????

**3300.5 kHz, 06-01, 0832 UTC**

=99?1132?9?????

=99?1133?9?????

=99?1134?9?????

=99?1135?9?????

**5860.5 kHz, 07-01, 0838 UTC**

=991138??0?????

=991139??0?????

=991140??0?????

=991141??0?????

=991142??0?????

=991143??0?????

**5980.5 kHz, 07-01, 1323 UTC**

=991623??8?????

=991624??8?????

=991625??8?????

=991626??8?????

=991627??8?????

**7450 kHz, 11-01, 0529 UTC**

=10009991857875299

=10010185786129

=10005185785730

=10006185785630

=10004185042330

=10003185043830

**7162 kHz, 11-01, 0537 UTC**

=99?0837?9?????

=99?0838?9?????

=99?0839?9?????

=99?0840?9?????

=99?0841?9?????

=99?0842?9?????

**7162 kHz, 12-01, 0648 UTC**

=99?0948?9?????

=99?0949?9?????

=99?0950?9?????

=99?0951?9?????

=99?0952?9?????

=99?0953?9?????

**6463 kHz, 17-01, 0807 UTC. Note the XXX message !!!**

XXX XXX 60413 DREWNEJ/HIJ 15579231

XXX XXX 60413 DREWNEJ/HIJ 15579231 K

=991108??0?????

=991109??0?????

## **M41 - Russian Air Defence Forces (Во́йска ПВО Voyska PVO)**

### **4635.5 kHz, 03-01, 0602 UTC, i.p.**

722 194 9700 3904 0991288 10 90 0800 ABV  
722 194 9700 3904 0991288 10 90 0800 WFAP

### **4788.5 kHz, 03-01, 0903 UTC, i.p.**

9922391169204  
=0099 ... 08551799239100511800  
009924391807908  
51799249100511800  
9922391167208

### **10168 kHz, 07-01, 0727 UTC, i.p.**

ON8A  
AR  
ON8A  
WZD  
5123 833 21367180 29 ABV  
5123 833 21367180 29  
722 511 5123 800 30 AR

### **4788.5 kHz, 03-01, 0903 UTC, i.p.**

=9922391169204  
=0099 ... 085517  
99239100511800  
009924391807908 517  
99249100511800  
9922391167208

### **4788.5 kHz, 07-01, 0746 UTC, i.p.**

9901 391 409544  
9904 395 765644  
9905 391 709944  
9906 395 797944  
009907 391 708644 517  
9907 9100 511800  
9901 391406648  
9904 391 169248  
9905 391 705648  
9906 391 163248  
9907 391 706648  
9901 391 808452  
9904 391 168652  
9905 392 168852  
9906 391 169152  
9907 392 104352  
009908 391 169852 517  
9908 910 0511800  
009909 391  
808554 517  
9909 9100511800

### **4635.5 07-01, 0806 UTC, i.p.**

9500398494304  
95003984942  
950039484506  
9500498495307

### **4827 kHz, 07-01, 0811 UTC, i.p.**

9500398495308  
9500 395 495909192  
9500 398 4957 1010 K K K K

### **4794 kHz, 07-01, 0814 UTC, i.p.**

2024 422 1199813 =  
002024 228 1814 103915 =  
002024 228 1814 11115 =  
2024 238 1814 103816 =  
2024 228 1812 102718 =  
2024 228 6876102219 =

### **4831 kHz, 10-01, 1230 UTC, i.p.**

5123 720 4779 7280 18 722 511  
5123 800 19  
5125 1855 269716019822511  
5125 60020 RPT  
5123 720 4779 7280 18 722 511  
5123 800 19 5125 1855 269716019822511  
5125 60020 K

### **6822.5 kHz, 10-01, 1245 UTC, i.p.**

1S61 1S61 1S61 1S61 AR

### **10168 kHz, 14-01, 0844 UTC, i.p.**

ON8A AR

### **6822.5 kHz, 14-01, 0902 UTC, i.p.**

WZD  
3201 833 6862 7180 57 ABV  
3201 833 6862 7180 57  
WZD  
722 511 3201 600 58 WZD  
3203 189 7857 7280 58 ABV  
3203 189 7857 7280 58 WZD  
722 511 3203 800 59 AR

5774 kHz, 10-01, 1208 UTC C537 C537 C537 AR  
5774 kHz, 11-01, 0500 UTC C537 C537 C537 AR  
5774 kHz, 17-01, 0500 UTC C537 C537 C537 AR  
5774 kHz, 18-01, 0500 UTC C537 C537 C537 AR  
5774 kHz, 25-01, 0500 UTC C537 C537 C537 AR

## **M89 - Chinese military**

### **4532 kHz, 01-01, 1138 UTC**

18/5393/63/63/7636/369/A AR  
= 438/5718/5393/63/63/7636/369/A AR  
V M8JF (x3) DE RIS9 (x2)

### **4012 kHz, 02-02, 1730 UTC, i.p.**

D476 D75N AR QSL ?  
DE ZIETYT K  
R QSL DE  
QSL DE BKJIF DGDG OJO O  
DE  
ZU.T  
QSL DE KZYH K  
DG  
DG OJO ? G ? DG OJJ5  
QSL ?  
CQ LWSB WK K

### **4087 kHz, 02-01, 0813 UTC**

R R NR 111W = = 437. AR K  
RPT 17. = = 4N3A AR K K  
RPT .1.. RPT RPT (Both stations on this frequency)  
R QSL 1616 K  
U 7G GA K  
R HR 7G  
NR 00. CK 41 56 .2 100 1600 RMKS = = .899 TO 7315 AR K  
R R GA K K  
R 7G = =  
4357 5ND6 6U4U 443U ND5U DA75U 66T 75UA T5TA TTA4 (Cont'd)  
AR K  
R QSL 1620 K K  
R SK

### **6814 kHz, 04-01, 0831 UTC, i.p.**

KUCG DE 4WBT K K  
KUCG DE 4WBT K K  
VVV KUCG DE 4WBT K K  
QSA 1 QSA 1 QSY NR 5 QSY NR 5  
VVV KUCG DE QSY NR 5 K K  
VVV KUCG DE 4WBT K K QSA 1 QSY NR 5 K K QSA 1 QSY QSY NR 5 QSY NR 5 K K  
VVV KUCG K K  
QSY IIII QSA 1 QSA 1 QSA 1 QSY NR 2 QSY NR 2 K K  
VVV KUCG K K  
R R R R R QSA 2 IEC BT 5654 TEIII R R IEC = 5654 AR K K  
R R SVC GA K K  
R R SVC NR 037 1630 RMKS 5251 TO 9571 K K  
R R R R = =  
UAT 1730 UGT COMM 5251 515 AR = =  
UAT 1730 UGT COMM 5251 515 AR K K  
R R U QSL  
R R HR NR 407 HR NR NR 407 K K  
R R SA III R R SK SK

**7293 kHz, 04-01, 0916 UTC, i.p.**

TUTA TTAT T47T T446 D537 (Cont'd)

AR K K

R RPT K

AS AS AS

QSA 1 U QSY TO CODE 57 57 QSA 1 U QSY TO CODE 57 57

VV LK8J DE ASXB K

VV LK8J DE ASXB K

VV LK8J DE ASXB K

VV LK8J DE ASXB K

VV LK8J DE ASXB K

QSA ? K

R QSL K EEEEE QSL K K

R HR NR 20 EEEE 2 EEEE HR NR 202 K

R SK GB

**6697 kHz, 06-01, 1019 UTC, i.p.**

7A65 T563 43DN 43T6 3A7D (Cont'd)

2P = 7A46 73A6 37D4 A6D3 3A65 (Cont'd)

AR AR (1028z)

VV J9ON DE A7KU K

RPT (1030z)

VV J9ON DE A7KU K

VV L5VQ DE A7KU K

R

CY HW ?

RPT K

RPT . 16W = D635 AR K

R 1P 1.W = D635 AR K

R 93W = 7NA4 AR K (Cont'd repeat groups)

R U GA K

RPT K

RPT 1P 11W TO 15W K

R OK

V V P5HI DE A7KU K

CY HW ? K

R 1P 31W = ..3.. AR K (Cont'd repeat groups)

R U OK NR GA K

R RPT 2. 1W TO 05W K

R OK

VV M3YD DEEEEE

VV M3YD DE A7KU K

R CY HW ? K (Repeats groups)

R U WK NR GA K

R 82W = ..35 AR

R U WK NR GA K

RPT 1P 46W TO 50R EEEE 46W TO 50W K

R OK

VV Z=A DE A7KU K

R CY HW ? K (Repeats groups)

R U WK NR GA K

RPT K

R RPT 2P 11W TO 15W K

R OK

VV M4.T DE A7UK K

R HW ? K (Repeats groups)

R U WK NR GA K

RPT K

R RPT 1P 61W TO 65W K

R OK

VV E5VS DE A7KU K

R CY HW ? K  
R QSA 1 QSL 1840 K  
R U WK NR GA K  
U WK NR GA K  
R  
VV E5VS DE A7KU K  
VV E5VS DE A7KU K

**3226 kHz, 07-01, 1747 UTC, i.p.**

V WJAB (x3) DE GMQ8 (x2)  
V 2MSU (x3) DE ZAN6  
2MSU DE ZAN6 K  
QSA ? K  
IEC = 0886 AR K (Normally associated with Exercise)  
RPT K R 6. K  
C C K 9  
V VHT3 DE ZAN6 K  
R QSA ? K  
R IEC = 7229 AR K  
R HR WK NR 25 EEE HR WK NR 208 K  
R K

**4199 kHz, 07-01, 2108 UTC, i.p.**

UND4 5A6N 7D53 NDU4 45TN TAU7 (Cont'd)  
III = 3DAU ANUT AN47 DU7A (Cont'd)  
AR K  
R R QSL 0518 K K (Both stations on this frequency)  
R R  
HR 7G GA K  
R GA  
MSG NR 0135 CK 400 68 0108 0430 RMKS 3289 TO 3009 K K  
R GA  
= = 35D. .AN3 DA3 5N4D A3DN (Cont'd)

**4440 kHz, 07-01, 0849 UTC, i.p.**

6T7N 5D74 T54A 6734 D574 U5A7 (Cont'd)  
= = U... 645A 5U47 74DA U6U7 3N54 AR K  
NR 5111 99 897 K  
K K HR WK NR NR 5 EEEEE HR NR NR 501 K  
R R SK SK GB  
HR QSL 05 QSL 1653 K K  
R R F RHA HR M HR GA GA K  
R R GA  
7G NR NR NR 5395 CK 99 26 0107 1172 RMKS 2870 EEEE

**5179 kHz, 07-01, 0834 UTC, i.p.**

R RPT 68W = 4A63 AR K  
R RPT 91W K  
R RPT 91 = ..... K  
R OK QSL 1637 HR WK NR 135 K  
R R HR WK NR 115 K  
R OK NIL VA GB  
R R OK NIL SK PSE  
VVV WKN3 WKN3 WKN3 DE SD78 SD78  
HR WK NR 135 HR WK NR 135 VA VA

**9171 kHz, 07-01, 0228 UTC, i.p.**

5673 TAUU D47D 6ATD DTUD (Cont'd)

AS

VV 7V= DE V9KU K

R Q.. (Other station also on this frequency)

VV 7VST DE V9KU K

R K

R HR 7G 5 1P = =

7ND5 5N6A 3U36 77U5 54UT AAT3 T7NA 4UAT 64A7 UAN4 (Cont'd) AR K

... 326 K

OK

HR WK NR 22.

R HR WK NR NR 303 K

SK SK SK

**5172 kHz, 08-01, 0856 UTC, i.p.**

CBE8 QSA 2 QSA ? K

NIL SK CL

DE

9PIK QSA 2 QSA ? K

NIL SK GB CL

DE

M6JV QSA 2 QSA ? K

NIL SK GB CL

DE

OKJ1 QSA ? K

NIL SK N EEEE GB CL

CL DE

TEW2 QSA 1 QSA ? K

NIL SK GB CL

DE DE

YPC6 QSA 1 QSA ? K

NIL SK GB

YPC6 K

KYYC EEEEE YPC6 K

YPC6 K

CL

DE DE DE DE DE

.JHG QSA 1 QSA ? K

UJHG QSA 1 QSA ? K

3.G. QSA 1 QSA ? K

DE

YY2. QSA 1 QSA ? K

NIL SK GB CL

**5555 kHz, 08-01, 1818 UTC, i.p.**

R RPT 87W

D634 D634

QSL ? K

R RPT 3.W TO 39W K

R RPT 38W TO 39W = 4UNU 3A5D AR K

R RPT 51W K

R RPT 51W = 6745 6745 K

R QSL 0219 HR WK NR 00268

R QSL 0219 HR WK NR 00268

R

HR WK NR 0026T K

R HR WK NR 0045 K

R NIL SK

R HR NIL SK



[illegible]

AR 3 ? 3. 64 ? ? 3FM 10.60 230.4 ?29748.3840. =  
4FM FM  
VV HR SVC GA  
NR .32230 RMKS 2.. TO 84.4 =  
O/2.15/66./974/.0. HR SVC GA  
NR 0.064 FM BT ??74 8.38404.94 FM 3..M FM 8242315824 6630.24 297482484...4 II =  
964 S8

45904/45904 R  
NO NO =  
4I/45904 R (T=0)  
NO NO  
45904/45N04 R  
45904/45904 R  
66 = 45904/45904/45N04 R  
45904/45N04 R  
= 45904/45N04 R  
= 45904/45N04/45904/45N04 R  
OK OK OK  
OK OK =  
51028/51028/5ATUD R  
51028/51028/51028/51028 R  
51028/5A0UD R  
OK OK  
02163/TUA63/TUA63 R  
02163/TUA63 R  
02163/TUA63/TUA63 R

NO NO  
 02163/TUA63/TUA63 R  
 = 02163/TUA63/TUA63 R  
 OK OK OK =  
 28440/28440/UD44T R  
 28440/UD44T/UD44T R  
 = 28440/28440/UD44T R  
 28440/284UT/UD44T R  
 = 28440/UD44T R  
 ...../28440 R  
 NO NO NO  
 28440/28440/UD44T R  
 28440/28440 R  
 NO NO  
 28440/28440/UD44T R  
 = 35262/35262/35U6U R  
 = CK 34 = 28540/2844T/UD44T R (Appears to be repeating groups)  
 28440/UD44T R  
 OK 35262/35262/35U6U R  
 NO NO = 35262/35262/35U6U R  
 NO NO =  
 35262/35U6U R  
 OK OK R  
 336T2 /3/T2163/T2A63 R  
 OK  
 AS AS

**6857 kHz, 14-01, 0909 UTC, i.p.**

U3T5 3UD3 47D5 AD74 AN56 AR QSL ? K  
 RPT PBL NR 065 CK 9. 96 0114 1700 K  
 RPT 91W U6TA U6TA K  
 R U 7G GA K  
 R HR QRJ UQSY EEEEE R HR QRJ U QSY NR 24 K  
 R HR QRJ U QSY NR 24 K  
 R HR QRJ U QSY NR 24 K  
 .... DE G5TF K  
 R QSA 2 U 7G GA K  
 R PT ... K  
 R RPT 18W K (Cont'd to ask for repeats)  
 R QSL 1715 HR WK NR 450 K  
 R HR NIL SK

**5412 kHz, 15-01, 0657 UTC, i.p.**

4ANN 6NAD 34D7 D55N 4U7A ...  
 AR K  
 R 13W 6N57 K (Repeats groups)  
 VVV Q EEE QSL ?  
 ZH QSL ? K  
 QSL ? K K  
 R U GA

**6269 kHz, 15-01, 0712 UTC, i.p.**

R 1505 K  
 = KH/RX. K  
 R FT TIME 1505 K  
 R = CH/RX AR K  
 R = .H/RX AR K  
 OK OK R GA  
 OK  
 R FT  
 R HHR FT

R FT  
FT GA K  
R FT GA K  
RPT  
R FT  
R ZHH QSL 1511 K  
HR 7G GA K  
NR 1319 CK 99 26 9 EEEE  
NR 1319 CK 99 26 0115 1512 K  
R FT TIME 1512 K  
= 3A74 6565 (Cont'd)

**5566 kHz, 16-01, 1021 UTC, i.p.**

VVV ABDE AS AS SK SK VA =  
XNQYA ? AR AR AR AR  
NR 0021 CK 26 51 0201 1036 RMKS 09502 21 TO 2N01 =  
UNT7 354N A65N 674N U5N6 6AN7 DAT4 (Cont'd)  
AR  
= NR 0021 CK 26 51 0201 1036 RMKS 2001 TO 3M1 =  
UNT7 354 EEEE 44444444 = =  
UNT7 354N A65N 674N U5N6 6AN7 (Repeats message)

**4245 kHz, 17-01, 1205 UTC, i.p.**

3ALE de 9ABR K  
R K  
A3O8 DE 9ABR K  
R K  
STIO DE 9ABR K  
R K  
TB1Z DE 9ABR K  
3KOA DE 9ABR K  
R K  
NNCN EEEEEEE  
NCN4 DE 9ABR K  
NCN4 DE 9ABR K  
NCN4 DE 9ABR K  
R K

**5294 kHz, 17-01, 0827 UTC, i.p..**

VVV GUHN K  
DE GUHN K (Other station also on this frequency)  
R HR KP U QSA 2 K  
R HR KP U QSA 2 K  
R SK  
R SK  
VVV EI9Z K  
R R DE EI9Z K  
R HR KP U QSA 2 K  
R HR KPU QSA 1 K  
R SK  
R VA  
VVV 2FB9 K  
R R DE 62FB9 K  
R R HR KP U QSA 2 K  
R HR KP U QSA 2 K  
R SK  
VVV 4VXP K  
R R DE 4VXP K  
R HR KP U QSA 1 K  
R HR KP U QSA 1 K  
R SK

R SK  
VVV LSFT K  
VVV FEEEEEE  
VVV LSFT K

**7441 kHz, 17-01, 0758 UTC.**

A574 6354 A6TD U3A3 6573 676T ...  
AR  
R R  
R R  
R R GA  
R R GA

**8344 kHz, 17-01, 0748 UTC, i.p.**

QSL 1549 K  
R K (Both stations on this frequency)  
HR WK NR 421 K  
R HR WK NR 16 K  
R SK SK  
SK SK

**5088 kHz, 18-01, 0813 UTC, i.p.**

R HR WK NR 117 117 K  
R NIL SK  
R GB  
V 5DSJ (x3) DE BR7D (x2)  
DE DE  
OP. QSA 2 QSA ? K  
NIL SK  
CL DE  
FNE8 QSA . QSA ? K  
NIL GB  
DE  
CL DE  
.MVJ QSA 2 QSA ?  
NIL SK  
GB  
YPCD QSA. QSA ?  
NIL SK  
GB  
CL DE  
V TEW2 DE PJQA  
R QSA 2  
R R IEC = 84.. AR K  
R GA  
R OK GA  
R OK QSL 1650 1650  
R OH HR WK NR 3.. K  
NIL SK  
GB

**5088 kHz, 19-01, 0935 UTC**

T4UN 3A6D U4N3 D7N5 T6A3  
II K  
TC 17W = 3051 AR K  
TC 44W = 5170 AR K  
QSA 1 QSY NR 02 CH NR 02 CH K  
YY2R K  
OK

**3270 kHz, 20-01, 0905 UTC, i.p.**

LP8Q de ADQ2 QSA 2 QSY 22 K  
LP8Q de ADQ2 QSA 3 K  
LP8Q de ADQ2 GA  
LP8Q de ADQ2 QSL 1722  
LP8Q de ADQ2 HR MSG NR 02 CK CK 91 2901 20 1800 RMKS 9918 TO 9818 =  
6NUU TT4U UT47 ...  
LP8Q de ADQ2 SK  
GB

**5591 kHz, 21-01, 0800 UTC, i.p.**

SI2Q de YUX5 K  
GA  
R GA  
R QSL 1546  
VA  
MQE7 de YUX5 K QSA 2 K  
R GA K AND  
QSL 1554 K  
VA  
2LLY de YUX5 K  
QSL 1602 K VA

**3861 kHz, 21-01, 1005 UTC, i.p.**

CQ de HGAQ HR NR 0467/EX 1805 =  
BN AR K = =  
NBM AR

3 outstations RTBE BCRL DUFE acknowledge the message: QSL 1809

**4243 kHz, 21-01, 0844 UTC, i.p.**

CP8 wkg UM2, V4F, ZKT, L4H:  
QRX 0900 HR MSG NR 42 CK182 35 0121 1625 =  
UTUA 3U63 A47O ...

**3389 kHz, 21-01, 0933 UTC, i.p.**

MDI8 de ZZH6 K  
HR MGG NR64 CK 91 630121 1715 RMKS 5090 TO 5537 =  
3UUA D34U TUTA A4DD ...  
QSL1750 k SK

**3277 kHz, 21-01, 1306 UTC, i.p.**

DE A81K K  
HR MSG NR 0159 CK41 42 01 21 2100 RMKS 92... TO 9298 =  
TU45 5375 467A 734N ...  
SK

**3277 kHz, 21-01, 1318 UTC, i.p.**

IC5M de 4Q6G K  
HR GA  
MSG NR 028 CK91 29 01 21 2100 RMKS 9818 TO 9978 = ...  
SK

**3296 kHz, 21-01, 1334 UTC, i.p.**

..JM de ZFZ6 K  
MSG NR0025 CK 141 33 01 21 2134 RMKS 0698 TO 0660 = ...  
SK

**8269 kHz, 22-01, 0834 UTC**

R DE HCJ7 K  
R QSA ? (Both stations on this frequency)  
U RPT 1W K  
R = = 54UT AR K  
R  
U RPT 33W K (Cont'd repeat groups)  
R QSL 1636 K  
R SK SK  
SK  
V XYBP XYBP K  
R DE AC6D K  
R QSL ?  
R QSA ?  
R QSL ? K  
RPT 43W K (Cont'd repeats)  
R QSL 1639 K  
R SK SK  
R NIL SK

**10086 kHz, 22-01, 0808 UTC**

= =  
73AU D7T4 UA3D 453N 63AU (Cont'd)  
AR KK  
OK QSL 1612 K K  
OK OK  
HR 7G GA K K  
OK  
NR NR 9347 CK 70 19 0122 1540 RMKS 8649 TO 8647 K K  
OK  
OK = =  
N6TU 47T6 67AT 4D6N 4A5N 35UN 3NDA (Cont'd) AR K  
OK QSL 1615 K K  
OK GB GB GB  
O EEEE GB GB

**3238//4870 kHz, 23-01, 1257 UTC**

V M8JF DE RIS9  
438/5193/5393/63/75/7356/367/A AR  
= 438/5193/5393/63/75/7356/367/A AR  
V M8JF DE RIS9

**9671 kHz, 23-01, 0752 UTC (QSO 9452 kHz)**

F NR 4474/EX 1548 RMKS 7012 TO 7071 K  
F NR NR 4474/EX 1548 RMKS 7012 TO 7071 K  
= = SY/JR AR K  
R R  
R R GA  
R R GA  
GA  
R QSL QSL 1557 K  
HR 7G K  
7G NR NR 4475 CK 99 95 0123 1558 RMKS 7012 TO 7071 K  
= =  
UTUT 737A 7457 UA36 UTNA 6ATA DU5N 53NU T33T TTA4 A5D4 ... AR

**4870//6874//8157 kHz, 0927 kHz, i.p.**

TO 0013 =  
2046 6832 8476 AR  
F NR 04 1727 RMKS 5393 TO 0013 =  
2046 6832 8476 AR  
F NR 04 1727 RMKS 5393 TO 0013 =  
2046 6832 8476 AR  
F N4 04 1727 RMKS 5393 TO 0013 =  
2046 6832 8476 AR  
V M8JF DE RIS9

**3238//4870 kHz, 25-01, 0944 UTC**

V M8JF DE RIS9  
MSG NR 1206 CK 92 40 0125 1745 RMKS 5393 TO 5013 5512 0760 3351 5983 5043 8347 3651 0541 7852 3613 0313 =  
T6U6 D353 N6T4 U335 5TAN T4TA A47A UA74 T3A4 TA7N  
N4TN NDU7 (Cont'd) AR  
MSG NR 1206 CK 92 40 0125 1745 RMKS 5393 TO 5013 5512 0760 3351 5983 5043 8347 3651 0541 7852 3613 0313 =  
T6U6 D353 N6T4 (Repeats message) AR  
V M8JF DE RIS9  
= 438/0091/5393/63/79/3206/361/ A AR  
= 438/0091/5393/63/79/3206/361/A AR  
V M8JF DE RIS9

**3759 kHz, 28-01, 1334 UTC, i.p.**

75UD 37AA TU3A 4NUD 73NA (Cont'd) AR K  
R RPT 19W = TU6A TU6A AR K (Cont'd repeat groups)  
U 7G GA  
R RPT 05W TO 06W K  
R R RPT 11W K (Cont'd to ask for repeats)  
R QSL 2141 K K  
R QSL 2141 K  
AS AS  
HR 7G GA K  
7G NR 8098 CK 41 16 0128 2000 RMKS 8939 TO 2819 K  
01W GA = =  
4NTT U347 6TD3 UDU6 7453 AD3A AA7U U63D UU3A TA7N  
64U4 3T45 TTND 44UD 6DN5 NN3U 4U5N 45NA 6374 66UA  
D66T 737A 6AA7 53NA ANND TA6U 555N 4743 5T36 6D7U  
7U44 3UAT 7U4D ..35 3A57 5U64 DD44 AT5D DD3D N3T3  
TDNN AR K  
R RPT K  
R R GA  
R GA  
R RPT 15W TO 16W K  
R RPT 22W K  
R R RPT 26W K (Cont'd to ask for repeats)  
RR QSL 2152 K  
LSB LSB K  
AS AS LSB LSB WK K

**6305 kHz, 29-01, 1012 UTC, i.p.**

V KF4R (x3) DE 3VML (x2)  
V 8IRQ DE TG9K K  
V 8IRQ DE TG9K K  
R QSA ? K  
R IEC = 3117 AR K  
R HR WK NR 109 K  
R KP KP K  
V JR7J DE TG9K K  
R QSA ? K  
R IEC = SMIQ9 AR K

R HR WK NR 209 K  
R KP KP K  
V 6NTO DE TG9K K  
R QSA ? K  
R IEC = 55MB AR K (  
R HR WK NR 209 K  
R KP KP K

**6714 kHz, 29-01, 0946 UTC, i.p.**

1225 1617 RMKS 2109 TO 2529 K  
55A7 47A7 A3UU 333U UAAA 637A (Cont'd - Runs groups together)  
AR  
A57A T7DA 56DT (Cont'd)  
AR K  
A547 AT7D ATA4 (Cont'd)

## **M95**

**4243//9054 kHz, 01-01, 0940 UTC, i.p.**

445 TT5 773 N44 5AA 75U 3U7 (Cont'd) AR  
AHR UP SB WK

**4243//9054 kHz, 01-01, 1147 UTC**

VHR MSG TO YR PSE CY  
NR 058 CK 21 35 0101 1507 =  
5TD UTT TTA 3U6 3A4 353 N3D 354 4T3 N3D  
4TA U7U N4A 445 3DA TTU TT3 773 446 3DU 4D3 AR  
A HR MSG GA  
NR 068 CK 17 35 0101 1557 =  
UT5 TTA 3U6 3A4 TTA TTU TT3 773 356 4T4  
35 337 DND N34 446 4D6 3DU AR  
A HR MSG GA  
NR 03 CK 161 35 0101 1630 =  
UTU TTA 3U6 3A4 TTU 773 35A N3D 353 (Cont'd)

**4243//9054 kHz, 2349 UTC, i.p.**

446 4D6 3DU AR  
MSG AGN  
NR 069 CK 13 35 0102 0617 =  
.T5 TTU 3U4 3A4 TTA TTU TT3 773 356 45A  
446 4D6 3DU AR  
A HR MSG GA  
NR 059 CK 30 35 0102 0645 =  
5TD UTT TTU TT3 3U4 7TA N44 3A4 357 377 (Cont'd) AR  
MSG AGN  
NR 059 CK 30 35 0102 0645 =  
5TD UTT TTU 3U4 7TA N44 3A4 357 377 403 N3D 4TA (Cont'd) AR  
A HR MSG GA  
NR 03 CK 110 35 0102 0710 =  
UTU TTU 3U4 3A4 TTU 773 35A N3D 353 4TA (Cont'd)  
N3D 353 4TA (Cont'd) AR  
MSG AGN  
NR 03 CK 110 35 0102 0710 =  
UTU TTU 3U4 3A4 TTU 773 (Cont'd) AR (  
A HR UP SB WK



**5172 kHz, 02-01, 2018 UTC, i.p.**

V DPT5 (x3) DE BR7D (x2)

AS K

DE

R QSA 3 QSA ? K

NR

DE

OKM1 QSA 2 QSA ? K

NR

AS

DE

3JHG QSA 2 QSA ? K

NR

AS

.PC6 QSA 2 QSA ? K

NR

AS

SL4V QSA 2 QSA ? K

NR

AS CL

WY2P QSA 2 QSA ? K

NA

AS CL

CDE8 QSA ...

9PIK QSA 2 QSA ? K

WK NR 120 120 HR MSG GA

HR 7G GA

MSG NR 003/CCK CK 99 6. 0102 0830 RMKS Q CQ AR

MSG NR 003/CCK CK 99 65 0103 0.30 RMKS = CQ AR

= =

3.N U.43 TN73 546U 456T (Cont'd) AR AR

CBE8 K

R RPT RPT RPT

NR .. CK .. 0102 0.30 RMKS CQ AR

NIL SK GB

TW2K

NIL SK GB

MBJV K

R NIL SK GB

RE7D K

R NIL SK GB

OKJ1 K

R R R ... GB

3JHG K

R NIL SK GB

E.P. K

R NIL SK GB

SL4V K

R NIL SK GB

YY2R

R R R R NIL SK GB

9PIK K. 9PIK 9PIK K. 9PIK K

**4243 kHz, 03-01, 1153 UTC**

AR  
7G AGN  
NR 01 CK 44 49 0103 1647 =  
D44 455 T7U D46 53U (Cont'd) AR  
NR 062 CK 29 35 0103 1449 =  
5TD UTT TT3 3U6 7TA N44 3A4 357 4TA U7U  
N4A 446 3DU 33U 34A N3U 445 3DA TTU TT3  
773 447 3D3 33U 34A N3U 446 3DU 4D6 AR  
7G AGN  
NR 062 CK 29 35 0103 1449 = (Repeats message) AR  
A HR MSG GA  
NR 06 CK 131 35 0103 1610 =  
UTU TT3 3U6 3A4 TTU 773 357 4TA 446 (Cont'd)

**4325 kHz, 03-01, 1129 UTC, i.p.**

3645 DNTA 7U45 3D6N TAU5 AR K  
QSL 1930 QSL 1930 R K (Other station also on this frequency)  
7G NRR 7G GA K  
7G GA K  
OK  
7G NR 949/CCK CK 200 75 0103 1931 RMKS 4897 TO 4543 AR K  
R GA K  
= 6D3T N47U 5A6D T34N 7UA5 7UND T43A 56T7 .UNA 5346 UN73 (Cont'd) AR  
QSL ?  
R K

**10412 kHz, 03-01, 0610 UTC, i.p.**

05 05  
DE Z7Q K  
QSA 2 K  
IEC = 4549 AR K  
GA K  
R K  
QSL 1410 EEEE QSL 1410 K  
HR F GA  
F NR 6252/EX 1410 RMKS 1395 TO 1357 K  
R F =  
C5HU/N3GW AR =  
C5HU/N3GW AR K  
HR MSG GA K  
NR 6253 CK 200 63 0103 1400 RMKS 1395 TO 1357 K  
MSG 1P =  
67TA 5D46 NT7D U6TT A6U7 5ND5 NA6T 4DAU 4N7D 73NA A7ND (Cont'd)

**4243//9054 kHz, 06-01, 1149 UTC**

V HR MSG TO YR PSE CY  
NR 068 CK 22 35 0106 1519 =  
5TD UTT TT6 3U6 3A4 353 N3D 354 377 4A4  
N3D 4AA U7U N4A 434 3DA TTU TT3 773 446  
3DU 4D3 AR  
MSG AGN  
NR 068 CK 22 35 0106 1519 = (Repeats message) AR  
A HR MSG GA  
NR 083 CK 21 35 0106 1530 =  
UT5 TT6 3U6 3A4 TTA TTU TT3 773 35U N3D  
357 4TA 445 34T N3D 4AN .35 4D6 N3D 4D3  
3DA AR  
MSG AGN  
NR 083 CK 21 35 0106 1530 = (Repeats message) AR  
A HR MSG GA

NR 12 CK 114 35 0106 1600 =  
UTU TT6 3U6 3A4 (Cont'd)

**3286 kHz, 07-01, 1747 UTC, i.p.**

VV BHGT DE KTS  
HR SVC GA HR SVC GA  
= 305/XZ72Z/0504/75/06/27/X327A/COMM/0034 AR  
HR SVC GA HR SVC GA  
= 305/XZ72Z/0504/75/06/27/X327A/COMM/0034 AR  
HW NR 2050 E HR NR 2050 NIL SK NIL SK  
VV BHGT DE KTS  
VV BHGT DE KTS  
HR MSG GA HR MSG GA  
NR 22/CCK CK 28 38 0108 0200 RMKS 0034 TO 592258435554943U EEEE  
RMKS 0034 TO 59225843555494325200 =  
3D4U 5T6A 7N3T 5A6N 4U7D 3D4N 5ADU 7T6D 5N7A 3U4T  
3T5A 6N7D 4U5D 4T6A 7U3N 5D3A 4N7U 6T7U 3T5A 4D6N  
3D4U 5T7A 6N7D 6T3U 5A4N 3A4U 5D6T 7N6D AR  
HR 7G GA  
HR 7G GA  
NR 22/CCK CK 28 38 0108 0200 RMKS 0034 TO 59225843555494325200 = (Repeats message)  
AR  
HR NR 3050 HR NR 4 EEEEE HR NR 2050 HR NR 2050 NIL SK NIL SK

**5801//10180 kHz, 07-01, 0735 UTC, i.p.**

VV HR MSG GA  
NR 029/CCK CK 91 19 0107 1535 RMKS 5319 TO 5369 5317 5164 =  
4UA5 4U5T 6N57 DUNA 65N7 N4N5 A6UN D54A 7T67 DUDA  
3U6T 65TD 5T3U 6TT4 6473 UN5A UN3A 3A7A AUD5 6T43  
UN7N TND3 57D6 ADNT U736 AT3N D775 ATUD 3AUA UTU3  
76UA 6T35 TN7A (Cont'd)  
AR QSL ? HW WK NR 220

**5801//10180 kHz, 07-01, 0755 UTC, i.p.**

VV HR SVC GA  
NR 029 1600 RMKS 5319 TO 5177 =  
COMM/1630/XZ978/82/5317/5177 AR  
QSL ? HR WK NR 220

**5801//10180 kHz, 08-01, 0831 UTC**

V DKG6 (x3) DE 3A7D (x2)  
VV HR SVC GA NR 132 1630 RMKS 5319 TO 5628 =  
CL/1700/Z=/A979/.28 AR  
QSL ? HR WK NR 040  
V DKG6 (x3) DE 3A7D (x2)

**4243//9054 kHz, 08-01, 2348 UTC**

AR A HR 7G GA NR 11 CK 071 35 0109 0720 =  
UTU TTN 3U4 3A4 7TU 7TA 7T7 73U 7UT TTU (Cont'd) AR  
A HR UP SB WK AR AR

**4364//8073 kHz, 09-01, 0002 UTC**

V BNGC (x3) DE XSV85 (x2)  
NR 004. CK 108 35 0109 06..  
NR 0044 CK 44 35  
NR 0044 CK 35 0109 065. =  
NR 0044 CK 44 35 0109 0659 =  
TTA N5U TTN N53 TT6 N54 7TT TT7 746 (Cont'd)  
AR AR

**5801//10810 kHz, 14-01, 0937 UTC**

V DKG6 DE 3A7D  
VV HR SVC GA NR 245 1730 RMKS 5319 TO 5644 =  
CL/1800/Z=/A979/5644 AR  
QSL ? HR WK NR 040  
V DKG6 DE 3A7D

**5801//10180 kHz, 16-01, 1010 UTC**

V DKG6 DE 3A7D VV  
HR SVC GA NR 279 1840 RMKS 5419 TO 5529 =  
CL/1900/ZBT/A979/5529 AR  
HR WK NR 640  
V DKG6 DE 3A7D

**4243 kHz, 17-01, 1158 UTC**

AR  
A HR 7G GA  
NR 017 CK 18 35 0117 1544 =  
UT5 TA7 3U6 3A4 TTA TTU TT3 773 353 N3D  
35U 36U 4UT N3D 4AA 435 4D3 3DA AR  
A HR 7G GA  
NR 34 CK 108 35 0117 1620 =  
UTU TA7 3U6 3A4 TTU 773 354 N3D 353 4TA (Cont'd)  
AR  
A HR UP SB WK AR

**5358 kHz, 18-01, 0805 UTC, i.p.**

R QSL 1605 CY K  
R MSG NR 01/CCK CK 61 69 0118 153 EEEEE  
MSG NR 01/CCK CK 61 69 0118 153M EEEEE  
MSG NR 01/CA EEEEE  
MSG NR 01/CCK CK 61 69 0118 1530 RMKS 7248 TO 4444 =  
5U73 DT75 NAU6 TD4U 45U4 N6A7 AUD3 437D T3UA TTTA (Cont'd)  
AR K  
R SK GB

**5391 kHz, 21-01, 0802 UTC, i.p.**

JVMB de IKV7 QSA 3 K  
HR MSG NR 022//CCK 199 3201211300 RMKS =  
5313 TO 5447 /5353/2135/5663/5983/5493/5363/5393/5433/5443 TO 5313 =  
UT4B 4TNH AU75 ...

**8860 kHz, 21-01, 0624 UTC, i.p.**

D5AT 4T36 547D 76T5 ... III 5P =  
5743 N4U5 TN6U 7354 45NU (Cont'd)  
III 6P = 5436 7453 A657 3645 4375 (Cont'd)

**5801//10180 kHz, 23-01, 0659 UTC**

V DKG6 DE 3A7D  
VVV SVC GA  
NR 090 1500 RMKS 5319 TO 5604 = CL/1530/ZBT/5319/5604 AR  
QSL ? HR WK NR 120 K  
V DKG6 DE 3A7D

**5801//10180 kHz, 24-01, 0802 UTC**

V DKG6 DE 3A7D  
 VV HR 7G GA  
 NR 102/CC EEEEEEE  
 NR 102/CCK CG EEEEEEE  
 NR 102G EEEEEEE  
 V DKG6 DE 3A7D  
 VV S EEEEE VV HR 7G GA  
 NR 102/CCK CK 99 19 0124 1616 EEEEE  
 NR 102/CCK CK 99 19 0124 1611 0 EEEEE RMKS 6FS = =  
 3AD5 N7DN 3D4N 6D75 4T3? 3TU4 (Cont'd. Running groups together)  
 AR QSL ? HR WK NR 150  
 V DKG6 DE 3A7D

**5801//10180 kHz, 26-01, 1020 UTC**

V DKG6 DE 3A7D  
 VV HR SVC GA  
 NR 460 1830 RMKS 5319 TO 5106 = CL/1900/ZBT/A979/5106 AR  
 QSL ? HR WK NR 15  
 V DKG6 DE 3A7D

**3307 kHz, 28-01, 1457 UTC**

CAAC de ZFJ4 K  
 CAAC de ZFJ4 QSA 3 GA K  
 CAAC de ZFJ4 QSL 2311 K  
 CAAC de ZFJ4  
 HR MSG NR 53/CCK CK 99 69 0128 2250 RMKS 7248 TO 8668 =  
 5UD3 NAU4 566A 6U73 AU7N DAAN 3T74 5D4U T3UA  
 CAAC de ZFJ4  
 R SK GB

**3132 kHz, 29-01, 1700-1733 UTC, i.p.**

IEHC (x3) de D2HR (x2) V

TE2Y QSO with outstations on 3366 kHz: 5KKN, R5JY, JKHZ, 5RWD, 2TEP, F2JK, JKS1, USI2  
 HR MSG NR 213/CCK CK 99 63 04 17 0100 RMKS = CQ AR = N35D TA7D 63D7 T75N 3A75 ... AR K

D2HR clg Y5EK, SW4K, YLD2, JKY5, 6YRT, IU5T, D5WH, JDS5, WPJZ  
 Outstations W1RX, 5KKN, R5JY, JKHZ, 5RWD, 2TEP, F2JK, JKS1, USI2 acknowledge receipt of the message

**MC03 - Chinese Air Defense****3031 kHz, 10-01, 2000 UTC**

NR DDA7 DA4D TU59  
 NR DDA7 DA43 T3TA  
 etc

**3000.5 kHz, 11-01, 1945 UTC**

NR 745A 45A7 TA4T  
 NR 7DAU 6U6A TA4A  
 etc

## **UM03 – Chinese X2M net**

**7920//8250//8410 kHz, 04-01, 0917 UTC, i.p.**

AR

17 17 CK 100 CK 100 DATE 1618 TIME 1618 DATE 0401 DATE 0401 =  
NT6U5 3NT6U T6374 U7D45 D43AN 6U4DA (Cont'd)

**7920//8250//8410 kHz, 09-01, 0934 UTC**

TIME 1635 TIME 1635 DATE 0901 DATE 0901 =

T6A7U 6U73D U4T5A 6D34T (Cont'd) AR

83 83 CK 100 CK 100 TIME 1641 TIME 1641 DATE 0901 DATE 0901 =  
D5T3A UD5NT 3UTD6 N5A3U (Cont'd)

**8250//8410 kHz, 13-01, 0712 UTC**

65 65 CK100 CK100 TIME 1513 TIME 1513 DATE 1301 DATE 1301 =  
LACRU DSVJM VYNRE ... AR

68 68 TIME 1419 TIME 1419 DATE 1301 DATE 1301 = ... AR

NR 69 73 75 77 ...

**7920//8250//8410 kHz, 13-01, 0756 UTC**

CQ de X2M MSG ENG 61 61 CK 100 TIME 1457 DATE 1301 =

PJYAS JBEKW OLUSQ ...

**8250//8410 kHz, 29-01, 1928 UTC, i.p.**

AR

CQ (x3) DE X2M (x2) VVV

MSG ENG

81 81 CK 100 CK 100 TIME 1630 TIME 1630 DATE 2901 DATE 2901 =

T6A7T 6U7.D U4T.. (Cont'd)

## **UM10 - 10-minutes net**

3326 kHz, 02-01, 1726 UTC	U34D //4112 kHz
3326 kHz, 03-01, 1122 UTC	U34D //4112 kHz
3326 kHz, 03-01, 0928 UTC	U34D //4112 UTC
3718 kHz, 03-01, 1841 UTC	7CJK
3326 kHz, 03-01, 0928 UTC	U34D //4112 kHz
3326 kHz, 03-01, 1845 UTC	U34D //4112 kHz
3718 kHz, 03-01, 1841 UTC	7CJK
5820 kHz, 04-01, 0850 UTC	7CJK
3326 kHz, 04-01, 0854 UTC	U34D //4112 kHz
3326 kHz, 04-01, 1458 UTC	U34D //4112 kHz
5820 kHz, 05-01, 0842 UTC	7JCK
3326 kHz, 07-01, 1730 UTC	U34D //4112 kHz
3326 kHz, 07-01, 1800 UTC	U34D //4112 kHz
3326 kHz, 09-01, 1423 UTC	U34D //4412 kHz
3326 kHz, 09-01, 1020 UTC	U34D //4112 kHz
3718 kHz, 09-01, 1010 UTC	7CJK
6983 kHz, 11-01, 0542 UTC	AW3Z
5945 kHz, 11-01, 0620 UTC	TPTS //6924 kHz
5945 kHz, 11-01, 0720 UTC	TPTS //6924 kHz
3210 kHz, 13-01, 1912 UTC	7CJK //3718 kHz
3326 kHz, 14-01, 1626 UTC	U34D //4112 kHz
5945 kHz, 15-01, 0652 UTC	TPTS //6924 kHz
5820 kHz, 17-01, 0812 UTC	AW3Z //6983 kHz. Same frequencies as 7CJK
5820 kHz, 17-01, 0847 UTC	7CJK //6983 kHz
4112 kHz, 27-01, 1625 UTC	U34D
3326 kHz, 29-01, 1554 UTC	U34D //4112 kHz

## DIGITAL MODES

### **HM01 - Dirección General de Inteligencia**

#### HM01 oddities

##### **8097 kHz, 11-01-2018, 1403 UTC, AM/RDFT LSB**

Very noisy transmitter. Two HM01 transmissions mixing.  
At 1413 UTC followed by Windows sounds and a M08a test transmission.

##### **11435 kHz, 17-01, 1601 UTC**

Radio Habana Cuba, then at 1603 UTC abrupt and in progress: 73487 24686 46449 38632 78462 27043

##### **11435 kHz, 21-01, 1556 UTC**

Radio Habana Cuba at 1556 UTC then at 1557 UTC 38062 25881 61423 38636 78466 27047

##### **11435 kHz, 25-01, 1603 UTC**

38066 25885 61427 68562 07171 41871  
Abruptly and in progress after Windows sounds and much Radio Habana Cuba banter in Spanish and top of hour fanfare.

##### **11435 kHz, 29-01, 1555 UTC**

Radio Habana Cuba then HM01 at 1556 UTC: 54741 25889 65823 68566 07175 41875

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

#### M42b – FSK 50/500

##### **2460 kHz, 03-01, 1455 UTC**

WVXZ wkg OBRA. Opchat in CW and messages in FSK 50/500

##### **2460 kHz, 03-01, 1455 UTC**

WVXZ wkg OBRA. Ops chat in CW. Messages in FSK 50/500. Header: 911 100 07 0815 2393

##### **4829 kHz, 07-01, 0822 UTC**

ZGFV wkg BOPK. Ops chat in CW. Messages in FSK 50/500. Header: 211 100 07 0820 ....

##### **4012 kHz, 10-01, 0715 UTC**

VGTR wkg NLAT. Ops chat in CW. Messages in FSK 50/500. QSX 3838 kHz

##### **5386 kHz, 10-01, 1009 UTC**

KPML wkg BDUW. Ops chat in CW. Messages in FSK 50/500.

##### **6905 kHz, 10-01, 1250 UTC**

IMKA wkg WL9P. Ops chat in CW. Messages in FSK 50/500.

##### **6925 kHz, 12-01, 0645 UTC**

LKDW Wkg PRAT. Ops chat in CW. Messages in FSK 50/500.

##### **12219 kHz, 24-01, 0401 UTC**

Ops chat in CW: QSA4 QTC2 K, then into a test slip in FSK 100/500: 64646464646464646464

**7629/6783/4034 kHz, 1940/1950/2000 UTC**

Null message: )5761 00000+++++++162

Link 00116 via Cuba

**17411/15956 kHz, 12-01, 2230/2240 UTC**

11177 00116 23657 11002 01779

90082 25621 81307 72141 13638 66352 37265 68022 32482 38572  
 88773 53908 16552 21256 58899 34701 10187 53066 18285 43968  
 51852 90760 07327 07133 76396 95981 75380 77346 55589 39664  
 15076 68168 25373 55181 76824 77333 77896 46454 20977 54465  
 65149 52717 00610 25863 20319 26674 13149 11102 12573 50158  
 67190 23980 31577 70980 31489 05130 19920 07397 64933 80371  
 51221 32745 96490 41790 55661 04152 43575 62757 45386 34713  
 98174 29855 22071 56321 08856 49232 72282 62160 89288 55489  
 89764 53576 95115 59066 27767 51329 20008 75149 04037 78774  
 31307 17861 08300 29654 37050 72842 57389 11997 09662 88165  
 79374 55749 19949 05117 82868 05841 51109 56642 55160 09730  
 62450 27523 90700 67844 01918 14917 97144 28493 98360 54048  
 44038 07498 38754 49388 87916 98092 93999 79630 66833 57207  
 38721 33953 24835 92675 63179 52892 82054 10025 36239 75142  
 82829 99198 57354 98493 24948 93329 73255 36476 42370 07066  
 38134 14868 75193 83942 59418 41779 40875 40928 00311 62666  
 83754 61738 99998 63886 68821 18386 08073 65569 35044 93771  
 56938 07865 58357 91347 49446 02175 00000

Note: The weird teleprinter effect with new lines every ~3 blocks is back.

**17411/15956 kHz, 19-01, 2230/2240 UTC**

11177 00116 68319 19003 01239

87920 23759 22897 36129 31947 84503 61063 20615 54765 69374  
 52547 44307 86884 31492 06892 66495 04871 72722 61061 59490  
 91771 15977 67365 63948 12939 08850 96385 61159 84810 30444  
 47631 75962 17857 41859 75388 31896 43338 60488 89776 43030  
 92540 59469 22477 54812 89368 02105 11085 06462 58628 47240  
 62990 81311 03403 19691 33805 66400 46267 56987 28299 60276  
 32159 91491 07589 70480 42961 04222 05529 02838 04091 96254  
 49936 05029 43517 43146 94226 41288 92888 68383 33804 76890  
 68790 33373 26526 58796 04104 87086 24793 92830 17891 54925  
 74994 59357 08199 78253 49020 19621 20731 19056 77406 47485  
 82606 64628 96070 10137 72645 20290 99451 03788 60467 60975  
 97853 38379 37874 19098 85843 71380 97993 24371 22021 75174  
 17111 03121 00000



**13452/11106/13452/11106 kHz, 15-01, 0028/0038/0128/0138 UTC**

- No teleprinter defects
- TX's started 3 minutes late
- TX's didn't end on the ")" block but 2 blocks afterwards

11177 00117 23357 11003 01899

47057 64353 73283 08669 71937 12357 02607 37184 76896 39697  
56052 76632 43604 36374 94293 82454 32247 41616 87049 69516  
02222 73610 07231 07480 18734 71344 24649 84257 27440 56004  
03208 69923 54810 72499 23667 74696 09951 73085 43946 23862  
70767 43124 75580 77377 93207 82071 46112 88710 10790 76933  
64984 69978 01435 94385 52831 82705 26117 88677 49002 71620  
48223 32724 54168 04883 52474 75657 69703 23805 25151 15893  
36786 25100 08288 70150 80715 13394 82360 90702 00040 81199  
39912 64793 28756 04696 89685 98707 85878 05285 72579 17396  
99877 36528 40649 66596 28875 70229 13813 76149 20186 34205  
94491 99341 25726 01415 35773 32074 76818 93727 06470 29163  
82859 20347 71655 46810 51891 81097 39126 26650 54319 87768  
73254 35756 59583 31996 17140 25801 69705 13299 96064 30541  
45851 99679 05976 68189 29546 27671 71868 07866 96185 96617  
55630 25982 38616 61340 96826 42305 07280 23543 07188 74221  
21726 36088 70899 84268 78598 36471 59442 00008 17199 09347  
31782 53121 29264 69699 40951 07233 28716 19121 46073 65224  
39646 74629 96787 52674 71180 66609 05870 46600 62652 41420  
10340 40622 72751 90062 02499 95037 04948 03187 00000

**13452/11106/13452/11106 kHz, 22-01, 0025/0035/0125/0135 UTC**

11177 00117 78531 18004 01359

17040 85166 21964 80810 22975 64637 97491 70608 53941 54155  
49838 52227 03463 63344 39725 89024 76571 33385 10876 35080  
41135 93415 08356 59907 63761 50650 81226 91042 74032 80370  
03492 74252 44386 08922 31834 22451 75716 98133 37986 70484  
81685 21996 06499 08931 48967 73712 21509 04013 74113 03217  
56542 21724 16578 59273 64797 22163 02156 50034 66025 89506  
08378 21058 55073 82307 77691 19089 88037 06921 77976 27158  
84565 68488 38752 45057 32721 34941 95741 22162 02297 43561  
40312 77981 07601 02519 71312 06874 92445 91289 60640 94546  
63995 21309 91345 85733 89553 86033 61870 51103 00454 24999  
49816 39334 61561 72292 81247 86377 23725 37681 36403 58509  
98024 90120 06390 83873 10050 31801 79103 59484 69290 30337  
94991 94206 59561 14372 73392 44499 38329 54394 95573 90727  
29050 41793 62125 04133 00000

Link 00000

**4612/3359 kHz, 16-01, 1810/1820 UTC**

11100 00000 84125 15063 02149  
 22766 31848 10158 23526 11238 37846 54704 00997 81939 56447  
 14888 46286 72708 44301 86226 73379 10474 96092 17314 76104  
 93650 25249 57107 83303 61732 80686 82384 14879 69289 85521  
 35069 87160 06541 08695 24102 41025 33698 05448 71557 91203  
 21272 87573 07674 20222 13511 09404 44513 65408 57185 80446  
 82906 72400 62881 40622 32398 13599 91008 59040 48856 94991  
 79695 42241 19461 99806 56774 62858 49726 42410 03031 44614  
 32272 30895 58909 64616 02017 61805 91869 58861 07487 95420  
 66566 41915 52922 85047 85057 76675 90875 58753 89212 55179  
 69980 76973 42518 76377 67592 14443 33465 31826 61969 39876  
 67708 35217 23702 91837 41176 56703 31059 74247 11334 47936  
 38953 19947 08770 68768 56205 95771 56309 51561 10799 47564  
 87827 64013 07804 08568 83965 56470 09673 19632 66923 04648  
 93582 34680 21519 83689 65512 09857 34712 34528 35754 99819  
 70770 08450 85530 09580 24263 00838 79414 75360 18078 09994  
 03241 72890 38646 82015 32188 76577 25560 27627 58729 17999  
 57770 21936 35129 17142 03560 23026 10181 84845 26467 70341  
 64870 19859 64355 48791 76650 48976 23824 29515 67018 83666  
 57120 23250 12084 91653 13777 07220 20806 06871 84133 11515  
 10599 26229 76942 75867 34987 66644 98244 12786 42999 80753  
 23703 37960 74986 54762 81579 53907 24556 36853 88543 97759  
 21301 69601 63212 00000

Link 00052

**10856/8174/6988 kHz, 02-01, 1500/1510/1520 UTC**

11166 00052 92785 02041 00049 00000 00000 00000 00000

**10856/8174/6988 kHz, 09-01, 1500/1510/1520 UTC**

11166 00052 87125 09018 00049 00000 00000 00000 00000

**20735/18037/16250 kHz, 10-01/11-01, 0900/0910/0920 UTC**

11166 00052 93142 26023 01969  
 46390 36136 53856 22078 57017 94821 77494 40426 79499 86203  
 12382 97356 04549 95064 55809 80736 54114 13307 89671 47806  
 71581 71722 70429 99059 63732 41614 57367 86174 44208 27159  
 18424 25756 14101 95402 26740 08199 52718 43167 92157 22308  
 26506 24578 75122 09289 02768 36942 34439 59557 59922 17319  
 36681 30620 55198 56045 92530 24996 78994 46219 82822 94709  
 64536 18113 12761 25427 94964 01855 85453 73432 17791 32070  
 00437 36546 77102 71055 82389 55599 27712 16180 32128 48837  
 81034 48202 54451 45358 02976 24292 61673 58132 92100 10048  
 70268 59488 92520 71892 78448 87603 57107 50884 77981 53126  
 33837 13128 61368 77954 22200 33647 55981 71196 61237 62898  
 31732 30917 23968 08427 09268 78365 33299 62024 06610 13685  
 87897 67011 71387 63038 97627 63670 38756 28306 22601 39260  
 23869 26312 49444 44526 03413 04801 71886 80146 10858 94047  
 46788 22561 99673 26492 13165 29983 03763 31931 22045 95639  
 78002 27733 07618 17462 34554 10232 64388 59241 40563 41516  
 08028 40758 28604 49702 05530 68112 62500 57869 19539 13375  
 51886 31485 14291 95382 12231 88115 48904 16698 56033 81671  
 63173 51365 69898 14574 46120 56862 24525 37593 88771 58970  
 52816 19662 66372 44066 23194 00000

**10856/8174/6988 kHz, 16-01, 1500/1510/1520 UTC**

11166 00052 87125 16056 00049 00000 00000 000

**10856/8174/6988 kHz, 23-01, 1500/1510/1520 UTC**

11166 00052 12987 23056 00049 00000 00000 00000 00000

**20735/18037/16250 kHz, 24-01/25-01, 0900/0910/0920 UTC**

11166 00052 46871 23024 01849

64030 26133 42866 22078 75757 84828 66404 40426 97139 76200

01392 97356 11125 24558 12427 60392 69066 97030 00845 23888

29104 89814 01436 99330 47085 92263 33117 32971 40483 10134

32395 75426 50801 53116 96244 07536 10159 36072 27354 25666

53899 10411 79688 74680 08351 21367 83130 92022 23534 10895

63329 25851 65060 17572 65377 63361 18960 40953 06576 31979

34016 72177 10428 77874 23189 61476 65065 48483 66339 81226

05783 13720 56584 38245 69865 63449 58698 43044 88915 93796

33354 10522 66175 81950 98304 55799 51580 23262 82302 92551

07218 63025 46427 05150 29407 64137 90988 29496 26754 28962

75702 95571 67485 49131 71148 41965 84245 69064 44884 96867

20431 98364 92193 44408 33032 44789 21375 84041 28622 81855

59523 00001 99140 21679 95672 50677 61311 37702 18518 04013

16446 69061 70522 23138 71453 70280 55742 60474 44464 01502

68747 80239 84998 25315 99871 09880 27464 32345 17393 51093

16502 75564 61408 32157 54863 33287 94936 95179 83148 89174

19998 87794 11647 75313 55460 04942 09399 98232 81554 70452

47939 83821 76232 94199 73669 37136 94594 86736 06938 88419

26012 06865 24182 00000

**10856/8174/6988 kHz, 30-01, 1500/1510/1520 UTC**

11166 00052 75369 30048 00049 00000 00000 00000 00000

Link 10031

**19433/16048/14976 kHz, 10-01, 1015/1025/1035 UTC**

11166 10031 13579 10001 00049 00000 00000 00000

**19433/16048/14976 kHz, 24-01, 1015/1025/1035 UTC**

11166 10031 24859 24026 00049 00000 00000 00000 00000

Link 10053

**10383/9046/7313 kHz, 02-01, 1650/1700/1710 UTC**

11166 10053 13579 02001 00049 00000 00000 00000 00000

**10378/9169/7419 kHz, 07-01, 1530/1540/1550 UTC**

11166 10053 91735 07001 00049 00000 00000 00000 00000

**10383/9046/7313 kHz, 09-01, 1650/1700/1710 UTC**

11166 10053 35791 09001 00049 00000 00000 00000 00000

**10378/9169/7419 kHz, 14-01, 1530/1540/1550 UTC**

11166 10053 13579 14001 00049 00000 00000 00000 00000

**10383/9046/7313 kHz, 16-01, 1650/1700/1710 UTC**

11166 10053 18527 16067 00049 00000 00000 00000 00000

**10378/9169/7419 kHz, 21-01, 1530/1540/1550 UTC**

11166 10053 35791 21001 00049 00000 00000 00000 00000

**10383/9046/7313 kHz, 23-01, 1650/17001710 UTC**

11166 10053 94821 23001 00049 00000 00000 00000 00000

**10378/9169/7419 kHz, 28-01, 1530/1540/1550 UTC**

11166 10053 15973 28063 00049 00000 00000 00000 00000

**10383/9046/7313 kHz, 30-01, 1650/17001710 UTC**

11166 10053 13579 30001 00049 00000 00000 00000 00000

Link 40122
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**20154/18304/16156 kHz, 10-01, 0600/0610/0620 UTC**

11166 40122 36295 06055 03469

01866 03744 20476 98687 76702 97456 59260 06496 99125 96321  
36431 52194 54872 51445 94711 60316 96165 46788 43034 96200  
28098 74764 53310 43599 65400 63899 17456 83553 95579 38220  
63108 66727 09329 13079 51473 96380 84161 57081 05731 64184  
32214 74822 43460 06047 48134 90106 11489 70147 18013 34345  
46632 14369 75289 69815 10748 75312 14556 02475 73537 76074  
99226 64008 41547 64990 23976 67806 56795 02514 17908 68548  
13464 38437 99387 80097 66095 46620 18461 31377 27733 09441  
47820 64919 81434 69121 08234 07790 53611 88157 39392 69550  
22611 85999 52100 46964 60998 44200 22747 40130 34965 97203  
16015 09726 09302 50968 46727 30054 31375 96608 16817 17576  
92551 11241 88307 39623 90494 63229 78285 32965 40775 64007  
86772 86941 11247 33677 93444 70816 77603 72556 84147 10069  
23569 55875 93116 41295 34150 93807 71878 00412 55400 24016  
20728 23840 19119 28906 43761 67378 55928 94775 13364 72427  
45175 55047 55120 34274 75077 84769 89070 52103 11565 38572  
88241 65450 99253 49270 40415 06751 42978 29297 24046 24703  
43335 42162 34285 58114 84666 36105 20028 64921 98916 57156  
17947 36077 53813 83774 94425 48986 38798 50250 31346 40180  
47148 51074 16658 01918 77729 43439 25669 32398 04816 90089  
04001 94274 89405 09676 88138 61159 30491 26819 24517 56802  
79699 39080 73077 16627 67749 42999 06238 26331 16165 86407  
39206 17212 32680 39199 52588 22926 13771 99748 93202 27355  
02757 79152 64073 58283 76899 30500 39504 06547 61952 15344  
66201 75379 97581 24569 36361 89600 02109 95843 43669 19371  
09998 94838 58146 98175 80550 52399 80785 39741 01212 74874  
63903 83554 33956 69763 08158 23699 78167 53890 72157 00661  
48471 36285 55615 60827 90930 92954 41965 13336 86077 75743  
11395 38983 12181 22455 60223 30863 67213 60437 87565 71443  
72951 20807 35219 75739 09633 05514 91709 55304 54625 74415  
96438 82697 23531 44563 04856 61131 37175 18885 00620 28983  
62907 86446 65654 53856 03657 61482 44058 95876 33183 53388  
60806 44924 00949 84848 81160 61465 55067 00308 21750 75695  
56747 31954 49249 24667 84679 15409 27583 32091 52807 72316  
99617 60505 89908 02012 55344 00000

**20154/18304/16156 kHz, 17-01, 0600/0610/0620 UTC**

11166 40122 12345 17017 00049 00000 00000 00000 00000

**20154/18304/16156 kHz, 24-01/25-01, 0600/0610/0620 UTC**

11166 40122 64789 20056 03029  
64252 90245 04963 01632 22107 43623 31970 52055 30156 61543  
92496 30277 98930 89305 43557 85787 72332 09695 83006 23589  
29263 59653 87724 63907 24930 60594 66711 36375 05708 10488  
15247 19623 50859 11191 45337 62221 20992 29483 84602 45910  
17938 15223 60823 77043 85749 25069 14310 17199 07493 25215  
05290 12890 77534 71551 08513 17300 54002 90719 12241 94002  
21304 10477 63820 73584 16004 12812 29031 39116 99933 08255  
57385 97412 78232 54823 70575 90012 98995 70018 16249 30817  
85026 09344 54309 06330 78780 09747 67919 99428 04975 21458  
16400 22613 80572 76629 72211 71659 26812 68239 09206 35622  
62970 37684 34332 24129 86567 94493 72390 97883 69662 16624  
99216 13346 25968 04745 30883 17496 28448 88974 27113 53639  
82083 11488 60084 64186 81514 33444 50419 01335 08223 39671  
84335 81611 46957 39535 11769 45186 26086 87443 42623 05918  
11556 71413 83366 03056 09162 43145 81140 90541 54795 88030  
67576 24843 97375 58551 19505 37263 04141 19484 78753 01663  
42988 78362 98207 33517 21559 99635 06853 81277 87742 25946  
07336 95939 21296 54983 59165 89718 71265 45332 96526 20181  
18895 49774 91103 59510 70713 99452 66179 36951 11476 87371  
07836 63253 71671 24633 39920 74333 89253 67876 54975 54655  
70303 41338 18307 26335 78311 01987 87391 14908 06749 21158  
13794 27690 14632 81125 19802 05677 29769 10059 66944 34916  
49359 03796 58603 28284 92649 07867 43885 13621 85330 58209  
14959 89135 80349 04016 15026 32052 44849 61234 99135 71397  
67894 69535 15013 60908 68701 53069 96090 12940 12538 05299  
83943 79388 46438 49506 22301 90492 62112 46507 89827 87497  
77894 48650 63860 10297 32273 23440 32295 24603 65962 95234  
95803 03774 64798 78230 27562 94238 40613 00652 82701 32459  
54790 39163 74636 95160 14178 19313 60491 95177 94059 48062  
02783 58647 67860 81275 99566 41279 48277 48134 00230 92060  
56300 00000

11166 40122 82546 20057 02349  
58768 58748 09279 93123 83559 93096 59056 62558 85334 34259  
22689 51768 96280 61800 66146 06292 97571 24044 18317 81981  
00488 12426 86561 41489 22558 10958 47742 28184 50911 81713  
19433 40947 10012 72295 40993 58291 75993 56213 19192 85228  
04748 42097 18070 21330 65977 12716 97724 73412 00392 79700  
31718 61299 42236 64934 57769 90076 74339 44546 41452 87295  
07866 16429 57559 28551 03969 77235 18830 99876 79516 19790  
06730 70399 64100 86832 83971 73676 00483 42068 93458 21169  
05708 44419 73340 96275 35033 36452 42872 02379 15881 82896  
38760 63318 44003 20199 06686 99762 59032 03049 77689 29878  
41626 58815 84108 67763 99363 85836 94748 18074 33622 56485  
73989 90271 04573 10961 94490 80942 36531 52748 58214 97619  
30814 81661 05424 22548 78303 25435 16359 39825 88913 55776  
35285 74357 80130 99840 71579 16079 91826 83041 57567 27851  
19533 64157 67770 60493 83350 48650 29288 23391 74698 91154  
77955 84089 48081 23056 40015 95343 50063 66107 43940 73041  
02633 18024 92140 73440 83153 20977 47208 43166 68088 48943  
12404 40396 32668 74838 11071 50670 23718 03374 94661 45779  
47812 80565 34065 59139 41939 15855 73918 76126 18888 77752  
54603 62778 04522 48959 31594 81312 09131 51900 46869 65906  
00059 80599 32049 57162 67788 99845 47968 18701 02666 97578  
90357 84323 24464 01437 16326 09182 31953 95398 71331 23381  
64698 97465 21334 11466 94228 84312 19796 66224 86808 73849  
69520 81102 57232 00000

**20154/18304/16156 kHz, 31-01, 0600/0610/0620 UTC**

11166 40122 13467 27058 03789  
21745 70960 87239 18805 48185 81513 48463 51707 54126 30750  
29330 13507 85729 03268 96740 36303 36520 81799 14930 68072  
65420 06149 83861 88405 44181 79088 12495 92555 76395 30174  
81591 24250 55275 73404 75766 54683 52399 19665 89463 31146  
54589 29896 36542 43719 91127 19922 18172 83468 18494 52877  
28703 90584 54805 80163 04225 15902 81154 16885 43482 44227  
52027 62695 55839 52932 81990 03982 15992 04231 00841 58347  
30092 94588 94389 47307 42997 09692 73086 08150 41315 58434  
35663 80890 31937 84328 19979 31265 00749 77811 58264 95696  
81199 37854 78945 59165 87433 56332 22241 01937 91643 23589  
61710 76064 50366 78620 48954 97621 09375 52332 23635 65594  
41891 77302 56034 43365 99767 62476 14298 63738 82351 56252  
73593 43439 52736 46375 09335 18011 56023 70083 41686 33078  
19264 32959 23521 52871 38115 59489 89022 72037 79170 26608  
05115 41462 53433 45235 92923 44391 40139 02261 11432 83432  
65781 72403 20538 64592 67991 56788 65692 89218 98977 18881  
51302 89777 48203 16607 95099 70427 64980 54107 80646 38315  
78682 01550 50178 36523 67285 56460 04962 14621 93813 44979  
05363 97754 75575 86505 87807 40201 19677 70156 40829 74339  
11619 16481 07375 90965 60629 22861 05582 11894 06418 16045  
85191 40780 17048 60251 61793 03108 32606 94265 96092 11268  
34360 95989 10385 15678 44097 97863 59423 27869 83218 01605  
97866 26487 46986 65704 11503 82140 71518 64109 04421 62033  
01694 39540 59335 00318 86180 99867 13238 45110 56365 31002  
15471 18110 68165 24714 61105 47737 11522 44844 14717 61762  
17253 80319 70240 50335 15958 58432 10598 35359 28663 16806  
61374 07162 93887 57488 65048 14376 60829 31618 48103 17988  
03346 28083 57964 45485 34424 64636 12465 06029 25834 04877  
28436 52613 62630 49550 61698 02122 87221 75610 96884 49242  
12664 21465 66529 35158 09892 41852 19687 56966 98750 80781  
80293 28760 96142 35985 63154 30296 05147 13303 39631 04214  
42832 94451 70238 87712 43413 66608 46301 89648 87278 87245  
37904 48973 36939 82665 30264 35462 84411 03654 95813 78663  
39714 86703 94025 36006 15164 94246 16332 36057 85155 46723  
38213 57513 26126 69125 05695 30916 66376 02869 68419 72245  
60469 52408 26492 86296 47714 69047 83282 99078 59962 92977  
21372 12603 07500 02788 43827 49872 98629 31469 48004 52646  
12084 47366 24046 82712 47141 23513 58376 00000

Link 40133
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**20564/18471/16308 kHz, 06-01, 1500/1510/1520 UTC**

11166 40133 36987 06001 00049 00000 00000 00000 00000

**20564/18471/16308 kHz, 13-01, 1500/1510/1520 UTC**

11166 40133 17935 13037 00049 00000 00000 00000 00000

**20564/18471/16308 kHz, 20-01, 1500/1510/1520 UTC**

11166 40133 63751 20037 00049 00000 00000 00000 00000

**20564/18471/16308 kHz, 27-01, 1500/1510/1520 UTC**

11166 40133 34561 27001 00049 00000 00000 00000 00000

**16356/14359/12079 kHz, 06-01, 1100/110/1120 UTC**

11166 50046 36987 06001 00049 00000 00000 00000 00000

**16356/14359/12079 kHz, 13-01/14-01, 1100/110/1120 UTC**

11166 50046 12674 12021 02189

67809 89089 98913 40530 24976 73694 53106 63673 62024 30175  
76912 82228 18729 57532 74370 25041 95696 38863 13212 76020  
63687 98568 82963 93341 87984 97389 78989 73739 78210 42763  
57119 41720 84666 97186 96116 00707 89363 04080 10448 49151  
41077 76882 07717 01900 98721 53520 40149 82722 55224 07148  
08862 08646 18762 14131 96817 87256 90589 51830 67316 10500  
33092 57805 71436 52573 43338 24955 67432 46465 06332 55622  
26160 02956 53848 67790 77361 38487 28607 97699 16621 29674  
36918 54155 85381 92454 24369 71554 20984 39631 46157 37482  
63976 92209 31393 71914 70046 08194 85992 39378 87259 42374  
70647 04319 94430 46051 48672 07476 41402 06926 47046 04152  
37229 63574 39094 07210 96271 47354 06675 12060 38785 52935  
58805 88945 57733 35499 29774 57250 12872 02993 37228 23160  
55768 13311 44322 37508 24131 85197 95048 61551 68664 23589  
39259 58432 45138 89699 46291 79420 98802 25443 84105 95183  
19564 24685 34413 97016 72259 51920 05024 89056 54486 08324  
08160 36949 77651 33936 87747 39586 68100 95095 93902 48475  
73848 35422 16537 96532 08739 92171 06234 87610 87982 87483  
50443 09833 83334 72414 42216 54984 71310 81689 73386 27663  
36130 55446 42009 21493 23692 62614 94024 93669 70270 86582  
47443 73459 18078 31694 82229 51528 51637 65453 61576 32632  
02696 17044 83504 22649 73742 02054 21216 00000

**16356/14359/12079 kHz, 20-01/21-01, 1100/110/1120 UTC**

11166 50046 98217 19022 00609

33019 79086 98913 40530 90186 63691 53106 63673 38234 20172  
76912 82228 28012 07582 70111 69671 49732 75729 61131 99130  
13802 22702 46901 03679 42685 54100 03023 87600 84407 96524  
28005 25170 71370 79567 64324 25727 34119 86823 58790 78089  
62772 13916 23049 22083 93102 40416 03534 25228 28378 84632  
86895 65969 68321 66875 42068 52003 28296 74769 22058 00000

**16356/14359/12079 kHz, 27-01/28-01, 1100/110/1120 UTC**

11166 50046 75329 26023 01069

40999 99093 98913 40530 07066 83608 53106 63673 45114 40189  
76912 82228 20615 11862 66786 31442 00657 25084 15990 88825  
84613 84769 17293 42716 84253 59518 94110 76423 33385 69904  
21565 86063 18563 28948 20156 45344 52027 61214 99973 46915  
15771 48071 96681 94867 27936 30192 69181 41650 41830 49398  
71607 11613 67327 73242 11381 17571 38884 30461 29602 00203  
57288 81215 44191 52732 13974 01874 50005 63803 17141 81843  
57043 70620 05065 45481 84901 67924 57783 31605 91743 51470  
27781 44018 31384 56395 10268 10974 95649 81146 57665 07212  
48561 11716 74026 92886 67149 08944 32295 07470 38402 06750  
84653 69576 12233 53191 23104 00000

**20973/18736/16238 kHz, 13-01/14-01, 1000/1010/1020 UTC**

11166 70004 19625 12003 00819  
 90454 32721 43481 08480 66764 71750 22391 81492 80872 77245  
 87404 64633 60916 15071 51030 71349 37305 07953 75195 84704  
 68505 08146 75276 02845 97609 13303 95852 19076 60469 26742  
 09060 67735 71281 60362 29752 76395 88026 62672 70507 38205  
 14923 65436 47473 04546 04245 87054 21966 94158 74292 72738  
 38591 10946 27797 59567 72290 40954 33912 32014 03892 31542  
 93021 97144 81091 77285 80596 20686 56168 57892 29551 34815  
 29792 69438 14299 39889 33075 24473 57437 86305 27609 03079  
 00000

**20973/18736/16238 kHz, 27-01/28-01, 1000/1010/1020 UTC**

11166 70004 19625 12003 00819  
 90454 32721 43481 08480 66764 71750 22391 81492 80872 77245  
 87404 64633 60916 15071 51030 71349 37305 07953 75195 84704  
 68505 08146 75276 02845 97609 13303 95852 19076 60469 26742  
 09060 67735 71281 60362 29752 76395 88026 62672 70507 38205  
 14923 65436 47473 04546 04245 87054 21966 94158 74292 72738  
 38591 10946 27797 59567 72290 40954 33912 32014 03892 31542  
 93021 97144 81091 77285 80596 20686 56168 57892 29551 34815  
 29792 69438 14299 39889 33075 24473 57437 86305 27609 03079  
 00000

**18334/16346/14418 kHz, 03-01, 0800/0810/0820 UTC**

11166 70048 25481 03056 00049 00000 00000 00000 00000

**18334/16346/14418 kHz, 10-01, 0800/0810/0820 UTC**

11166 70048 25481 10082 00049 00000 00000 00000 00000

**18334/16346/14418 kHz, 17-01/18-01, 0800/0810/0820 UTC**

11166 70048 00000 16014 01399  
 72574 09397 40556 97717 41388 14009 81365 98499 52307 74307  
 24024 30169 09288 99595 19377 19019 74510 61000 34149 14272  
 06354 32130 80019 04614 49891 31590 51933 37207 87852 91341  
 25478 92009 90500 52300 61742 87026 18370 73827 25345 98231  
 37090 23164 13530 89148 92093 69202 09031 34687 47992 56094  
 84873 23683 70336 48376 93000 76870 65526 75114 83001 16356  
 19405 91076 02253 18066 80060 83516 08710 20673 53300 06059  
 44275 42695 12689 02874 99075 75959 84091 71450 15160 65128  
 78167 76012 71778 69800 79043 41232 63425 74589 48254 60304  
 16308 96037 62254 49495 30967 63201 66891 86748 91314 07940  
 91029 47895 12758 43343 06073 76137 43923 86726 25149 30204  
 80593 71398 86186 47349 17317 13421 46334 61013 61283 91208  
 75252 93817 07251 31316 51648 20542 98194 99073 54779 75299  
 51556 14281 60941 69911 99987 64871 35175 14137 00000



**18334/16346/14418 kHz, 24-01/25-01, 0800/0810/0820 UTC**

11166 70048 00000 16014 01399  
72574 09397 40556 97717 41388 14009 81365 98499 52307 74307  
24024 30169 09288 99595 19377 19019 74510 61000 34149 14272  
06354 32130 80019 04614 49891 31590 51933 37207 87852 91341  
25478 92009 90500 52300 61742 87026 18370 73827 25345 98231  
37090 23164 13530 89148 92093 69202 09031 34687 47992 56094  
84873 23683 70336 48376 93000 76870 65526 75114 83001 16356  
19405 91076 02253 18066 80060 83516 08710 20673 53300 06059  
44275 42695 12689 02874 99075 75959 84091 71450 15160 65128  
78167 76012 71778 69800 79043 41232 63425 74589 48254 60304  
16308 96037 62254 49495 30967 63201 66891 86748 91314 07940  
91029 47895 12758 43343 06073 76137 43923 86726 25149 30204  
80593 71398 86186 47349 17317 13421 46334 61013 61283 91208  
75252 93817 07251 31316 51648 20542 98194 99073 54779 75299  
51556 14281 60941 69911 99987 64871 35175 14137 00000

**18334/16346/14418 kHz, 31-01, 0800/0810/0820 UTC**

11166 70048 26358 31053 00049 00000 00000 00000 00000

Link 70059

**6926/5845/4816 kHz, 01-01, 0500/0510/0520 UTC**

11166 70059 20181 01019 00049 00000 00000 00000 00000

**6926/5845/4816 kHz, 15-01, 0500/0510/0520 UTC**

11166 70059 13579 15001 00049 00000 00000 00000 00000

Link 70147

**13805/11644/ 9474 kHz, 13-01/14-01, 0900/0910/0920 UTC**

11166 70147 35182 12073 00609  
31695 33198 93688 58128 17261 13975 86480 94306 23055 07306  
81744 84902 93989 33455 59681 84713 73549 01921 60560 08022  
44370 06280 73949 16182 71365 53913 42927 42370 99525 96972  
85395 17201 16962 20668 98699 07378 36384 50140 21435 58097  
34652 58492 42794 08079 93552 92479 95813 21468 81580 62165  
55175 53553 97245 67163 78042 08509 80909 00917 73058 00000

**13805/11644/ 9474 kHz, 27-01/28-01, 0900/0910/0920 UTC**

11166 70147 34591 26074 01009  
53725 43102 93688 58128 39391 23989 86480 94306 45185 17310  
81744 84902 72862 21465 70435 23572 64235 98009 03990 41487  
51194 91208 68439 13197 95102 62585 83129 66326 47804 79772  
28402 38781 26394 72169 19028 39471 49393 05026 85907 76329  
36817 64995 92612 82926 01112 64585 34524 04824 71706 14608  
40015 70962 64562 74794 80101 02534 57403 69937 07896 39482  
02949 27615 44357 49970 90184 83952 82847 00492 29236 07238  
07215 91534 20927 02448 98515 43196 06034 22378 78782 46430  
02201 15462 81245 01331 73431 14929 22746 29830 60760 29087  
63508 64450 76618 58238 61920 87265 87134 64148 74098 00000

**12186/10243/8175 kHz, 04-01, 1330/1340/1350 UTC**

11166 80214 96574 04082 00049 00000 00000 00000 00000

**12186/10243/8175 kHz, 11-01, 1330/1340/1350 UTC**

11166 80214 15863 11053 00049 00000 00000 00000 00000

**12186/10243/8175 kHz, 18-01, 1330/1340/1350 UTC**

11166 80214 46723 18028 00049 00000 00000 00000 00000

**12186/10243/8175 kHz, 25-01, 1330/1340/1350 UTC**

11166 80214 32674 25037 00049 00000 00000 00000 00000

## X06 - Mazielka

Code	Freq	UTC	Sequence
X06	13575	1109	Sequence: 615243. Ends at 1109 UTC
X06	9106	1655	Sequence: 532614
X06	14512	0915	Sequence: 246531
X06	13401	0933	Sequence: 154263
X06	7773	1633	Sequence: 645321
X06	6877	1656	Sequence: 645321
X06	12178	0747	Sequence: 645321
X06	9041	1622	Sequence: 645321
X06	7773	1631	Sequence: 645321
X06	6877	1633	Sequence: 645321
X06	5785	1637	Sequence: 645321
X06b	8535	0724	Sequence: 666666
X06b	12625	0906	i.p. Sequence: 666666. Ended at 0940 UTC
X06b	13320	0754	i.p. Sequence 111666 Ended at 0757 UTC
X06b	17230	1210	i.p. Sequence: 111666 Ended at 1222 UTC
X06b	14380	1237	i.p. Sequence: 111666 Ended at 1244 UTC

**XPA****9108/10908/12208 kHz, 01-01, 0700/0720/0740 UTC**

192 192 192 000

08162 00001 00000 32666

**9108/10908/12208 kHz, 03-01, 0700/0720/0740 UTC**

192 192 192 000

07086 00001 00000 34267

**9108/10908/12208 kHz, 08-01, 0700/0720/0740 UTC**

192 192 192 000

02259 00001 00000 36657

**9108/10908/12208 kHz, 10-01, 0700/0720/0740 UTC**

192 192 192 000

01556 00001 00000 36656

**9108/10908/12208 kHz, 15-01, 0700/0720/0740 UTC**

192 192 192 000

07762 00001 00000 35665

**9108/10908/12208 kHz, 17-01, 0700/0720/0740 UTC**

192 192 192 000  
02677 00001 00000 37661

**9108/10908/12208 kHz, 22-01/24-01, 0700/0720/0740 UTC**

192 192 192 1 192 192 192 1 192 192 192 1  
00313 00195 03472 67232 95301 61802 34311 66215 60418 38986  
59145 52744 56282 94890 22547 48950 67318 63937 35484 85999  
77545 74303 99372 04353 88461 09941 91771 98910 09872 90129  
36228 91733 77675 49485 76201 80489 00435 34051 41110 05896  
06188 59096 55444 46683 88926 41106 08589 95152 34447 54175  
30135 82637 91843 78886 07695 02267 45540 29311 20445 22441  
63128 26708 18211 65514 18717 84655 29730 68717 51065 80533  
62087 49811 40346 55823 33301 71768 03417 14493 24657 93882  
68122 38528 21730 79298 01759 69026 54967 47900 36120 80223  
38473 12004 08353 89731 24512 39101 37914 05387 12413 62195  
65613 66710 94631 32174 98431 96555 52065 22676 75819 73869  
47382 15979 10776 66766 32707 16555 26500 09272 75326 20693  
94283 22685 56919 19396 63083 42824 01250 92273 65329 64470  
09009 20975 04488 28654 40994 79938 44727 57258 95129 00012  
50483 82162 85627 65291 64907 25364 25212 35490 73946 52413  
49719 64069 27276 65358 66922 00783 44491 55205 94863 36016  
29214 67395 59206 37417 33392 95586 73494 80667 43893 00896  
49859 39030 74379 46176 82285 52282 96407 90027 58493 93496  
35957 88937 27199 28857 94653 50706 43386 99324 48186 60084  
34838 66505 32847 74929 49189 39456 50898 15166

**9108/10908/12208 kHz, 29-01, 0700/0720/0740 UTC**

192 192 192 000  
06941 00001 00000 36262

**9108/10908/12208 kHz, 31-01, 0700/0720/0740 UTC**

192 192 192 000  
08926 00001 00000 40662

**XPA2**

**11493/13393/14793 kHz, 01-01, 0800/0820/0840 UTC**

06541 00001 00000 34262

**13472/14772/16272 kHz, 02-01, 0700/0720/0740 UTC**

09128 00001 00000 10140

**16138/14438/13438 kHz, 02-01, 1300/1320/1340 UTC**

09738 00001 00000 10140

**11493/13393/14793 kHz, 03-01, 0800/0820/0840 UTC**

02020 00001 00000 31254

**13472/14772/16272 kHz, 05-01, 0700/0720/0740 UTC**

07013 00001 00000 10140

**16167/14663/13923 kHz, 05-01, 1400/1420/1440 UTC**

09274 00001 00000 10140

**16167/14663/13923 kHz, 06-01, 1400/1420/1440 UTC**

07265 00001 00000 10140

**16138/14438/13438 kHz, 07-01, 1300/1320/1340 UTC**  
05707 00001 00000 10140

**11493/13393/14793 kHz, 08-01, 0800/0820/0840 UTC**  
07280 00001 00000 32267

**13472/14772/16272 kHz, 09-01, 0700/0720/0740 UTC**  
04327 00001 00000 10140

**16138/14438/13438 kHz, 09-01, 1300/1320/1340 UTC**  
09354 00001 00000 10140

**11493/13393/14793 kHz, 10-01, 0800/0820/0840 UTC**  
09392 00001 00000 33672

**13472/14772/16272 kHz, 12-01, 0700/0720/0740 UTC**  
01874 00001 00000 10140

**16167/14663/13923 kHz, 12-01/13-01, 1400/1420/1440 UTC**  
00765 00089 53065 50444 41167 69761 97716 56863 25927 78745  
77883 77067 45124 65340 48079 86367 82252 08365 19548 94352  
91559 97835 84280 87241 61168 45638 50696 35511 75364 85432  
97149 49789 37954 47195 34296 63945 00214 31612 26614 00485  
89585 19682 23539 76271 10293 57991 55411 96468 89807 97963  
36789 40356 57949 23441 39515 91759 68914 44736 01337 28736  
68950 67246 04983 19606 31524 26108 11729 97894 57990 84932  
47452 56228 62065 06875 89206 03570 62009 50859 35905 90523  
34177 34677 66362 40802 51647 44225 03175 36645 19291 08052  
87319 22746

**16138/14438/13438 kHz, 14-01, 1300/1320/1340 UTC**  
06329 00001 00000 10140

**11493/13393/14793 kHz, 15-01, 0800/0820/0840 UTC**  
02075 00001 00000 33661

**16138/14438/13438 kHz, 16-01/21-01, 1300/1320/1340 UTC**  
00690 00099 57755 42361 23938 52285 35232 40138 21821 64363  
56720 13687 75509 51713 20290 27543 97111 27505 02508 89993  
81012 39051 90461 01372 47278 90658 08409 61030 37885 17670  
35047 58026 30508 98122 63578 99565 13024 90217 45688 75960  
36931 11543 21300 70795 92213 63286 68353 37537 37479 88351  
47381 53649 92680 80331 31488 36307 96497 78476 86600 30448  
63576 96343 96625 77058 82978 55830 66653 06097 60609 64600  
35204 16573 54166 94049 98101 00979 12454 88032 25141 45795  
54276 57258 83303 64656 46030 40308 38058 28181 92422 24147  
40878 94545 38583 94899 72477 06770 73963 98411 22771 57587  
72976 24266

**11493/13393/14793 kHz, 17-01, 0800/0820/0840 UTC**  
06985 00001 00000 40266

**13472/14772/16272 kHz, 16-01/19-01, 0700/0720/0740 UTC**

04954 00157 03245 83026 28526 91058 72794 20111 84130 62772  
59620 40033 20857 92009 01025 74774 77420 61756 96369 62399  
35610 66223 68369 88648 67601 56612 21838 19375 89940 89503  
05322 67823 47281 39984 47596 81423 23922 05114 78903 13855  
81121 80200 64587 80470 62565 58610 99710 77706 06473 55908  
44053 66844 63994 70911 16682 34046 05086 64041 24768 59958  
18582 09734 48196 19998 50807 73880 97287 79107 90823 68810  
35449 32713 12577 02534 62677 49608 45766 42660 17739 30431  
97543 48238 36595 89410 68464 25630 44073 88711 94891 39325  
07430 02773 02771 47610 80428 59405 65369 25071 96545 95337  
53036 28180 63462 57285 91747 58333 12994 30885 45090 10896  
24542 87017 21263 87701 01130 98530 41415 17542 59614 69957  
41774 29245 09500 60973 86907 09325 38140 72072 32849 77700  
24446 29139 00776 01449 15063 75082 74762 82584 13245 75712  
83892 73368 09833 67487 32826 52865 03853 74773 11800 52538  
66166 91080 43163 12909 03493 96680 78832 13982 38119 22721

**16167/14663/13923 kHz, 19-01, 1400/1420/1440 UTC**

04401 00001 00000 10140

**16167/14663/13923 kHz, 20-01, 1400/1420/1440 UTC**

05945 00001 00000 10140

**11493/13393/14793 kHz, 22-01/24-01, 0800/0820/0840 UTC**

**The 0840 UTC transmission on 24-01 stopped after 40 seconds**

09272 00155 73130 88825 25803 01322 59251 90893 80556 81923  
85009 52415 62877 89381 07193 89566 36152 50003 33353 87164  
71483 24577 87333 55865 49387 44300 04726 74244 61638 39632  
52771 29951 81286 65775 73444 88924 89061 62947 78504 77169  
87281 36027 40130 91655 22879 51192 06323 19939 07667 00852  
44590 67659 72343 29691 61127 72833 55525 48558 86448 88007  
81114 16501 77445 60690 70731 30066 05531 00610 55091 43033  
28118 77300 84220 45316 81887 88230 09288 36859 06811 25639  
84328 17309 00224 21825 17860 58777 77610 01000 11337 70460  
18837 37856 69084 09961 99604 88030 88157 08443 15938 77062  
50489 33288 69929 70855 55583 25724 01258 74506 78852 74782  
39400 22100 16695 44088 58645 65713 50492 99436 26111 71183  
88444 91118 57066 05849 01309 08930 77005 57956 06369 61903  
72702 12603 64069 00102 57133 57740 48442 27316 51807 43998  
00777 67132 43993 13672 26300 80187 25781 30034 56436 61312  
00840 11460 27009 60621 30712 76168 29283 10217

**13472/14772/16272 kHz, 23-01, 0700/0720/0740 UTC**

09965 00001 00000 10140

**16138/14438/13438 kHz, 23-01, 1300/1320/1340 UTC**

05648 00001 00000 10140

**13472/14772/16272 kHz, 26-01, 0700/0720/0740 UTC**

06312 00001 00000 10140

**16167/14663/13923 kHz, 26-01, 1400/1420/1440 UTC**

08493 00001 00000 10140

**16167/14663/13923 kHz, 27-01, 1400/1420/1440 UTC**

06866 00001 00000 10140

**16138/14438/13438 kHz, 28-01, 1300/1320/1340 UTC**

05200 00001 00000 10140

**11493/13393/14793 kHz, 29-01, 0800/0820/0840 UTC**

06736 00000 00000 30662

**13472/14772/16272 kHz, 30-01, 0700/0720/0740 UTC**

09110 00149 03577 91442 56617 50338 13000 97216 93049 39935  
24022 99146 31150 67924 18135 94752 13235 52122 20839 25143  
46249 40058 59846 33308 96422 63416 20975 63370 48424 49146  
79458 10449 70694 33429 28196 65661 89970 85951 97162 19509  
51956 68851 63125 76666 50826 72958 64220 72560 85468 13341  
85459 15038 71968 71906 27136 75225 81642 39697 98335 90358  
48183 23427 40826 15873 73547 41273 78387 62414 82759 02377  
39341 32681 90915 02413 71883 27811 50916 20336 77834 23957  
14136 28101 47069 53728 63172 03046 00404 79812 60255 77960  
39362 17115 76171 58898 29402 46343 51639 08359 95442 35999  
10775 00267 09719 45056 83000 68952 20927 60380 59365 45732  
79352 65210 06548 98050 48411 43563 35360 51276 18452 25817  
01464 13551 14729 83949 87767 92496 86619 01081 85476 65154  
77130 11843 13259 34464 30134 73782 17709 84715 19723 97015  
39111 03884 96672 64600 53247 74093 18605 01262 29554 51099  
72912 27152

**16138/14438/13438 kHz, 30-01, 1300/1320/1340 UTC**

05580 00001 00000 10140

**11493/13393/14793 kHz, 31-01, 0800/0820/0840 UTC**

02034 00001 00000 33255

## **F11**

**9370 kHz, 01-01/03-01, 0845/0850 UTC**

0353 0353 0353 0353 0353  
88888 88888 66759 21286 33606 93449 83603 96357 75796 94185  
48921 34619 34686 31723 89440 13644 96050 00769 65989 32129  
67836 63122 30938 99996 37410 70214 62048 40754 27142 23830  
14914 46524 38823 13225 88888 88888  
00036 00036

**6807 kHz, 30-01/31-01, 1150/1155 UTC**

0325 0325 0325 0325 0325  
88888 88888 54154 27691 51563 12829 19787 10956 72856 48524  
76616 84444 90575 15489 10526 13280 46158 32913 07326 63669  
16330 42884 16995 07912 28003 97584 52810 84038 71493 97979  
19307 45515 23989 63094 27146 88888 88888  
00037 00037

## **POL**

Designator POL is partly replaced by

- P03a Polish Intelligence BPSK-63
- P03b Polish Intelligence QPSK-63
- POL is still the designator for QPSK-125. However, this mode hasn't been heard in the past few months

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

Operates 24/7 on 4153, 4231.5, 4291, 6250, 6417, 6445, 8313, 8588, 8703.5 kHz. Mode QPSK 1500Bd.

Logged on 10-01 at 1714 UTC and 13-01 16 0758 UTC

## DIPLOMATIC STATIONS

### North Korean diplomatic stations

The Priyom team, especially Daniel and Pierre, did a great job in describing the North Korean diplomatic system and network. After months of work they uploaded their findings to the Priyom website <http://priyom.org/diplomatic-stations/north-korea>

Below is a list of logged stations, courtesy of Priyom <http://priyom.org/diplomatic-stations/north-korea/network>

Continent	Modem ID	Embassy number	Location	Downstream stations	Upstream stations
Africa	0x64	MF76	?		0xCE
Europe	0xA4	MF02	Warsaw		0xA5
	0xA5	-	Moscow	Multiple (main hub)	Pyongyang (non-radio)
	0xA6	MF03	Prague		
	0xA8	MF04	Vienna		
	0xAA	MF06	Sofia		
	0xAB	MF08	?		0xA5
	0xAC	MF40	Madrid	0xD2, 0xD6, 0xD8, (MF71)	
	0xAD	MF11	Stockholm		
Africa	0xB1	?	?		0xD0
Europe	0xB3	MF17	?		
	0xB4	MF15	?		0xA5
	0xB5	MF16	?		
Asia	0xBC	MF23	?		0xD3
	0xBD	MF24	?		
	0xBE	MF25	?		0xC2
	0xC2	?	?	0xBE, 1 unid	
	0xC3	MF41	?	0xD0	
	0xC4	?	?	0xCA	
	0xC6	MF32	?		0xD3
	0xC7	?	?		
	0xC8	MF38	?		
	0xCA	?	?		0xC4
Africa	0xCC	MF36	Damascus		
	0xCD	MF45	Cairo	?	0xA5
	0xCE	MF46	Tripoli	0x64, 0xCF, 0xD5, (MF63)	
Asia	0xCF	MF91	Kuwait City		0xCE
Africa	0xD0	?	?	0xB1	0xC3
	0xD2	MF53	Conakry		0xAC
Asia	0xD3	-	Pyongyang	Multiple (main hub)	-
Africa	0xD4	?	?		?
	0xD5	MF66	?		0xCE
	0xD6	MF51	Dakar		0xAC
South America	0xD8	MF79	Caracas	0xDF	0xAC?
North America	0xDF	MF86	Havana		0xD8

### Egyptian diplomatic stations

6771.9 kHz, 08-01, 1945 UTC, SITOR 100/170

MFA Cairo clg XBVBQ: Egyptian embassy Paris

14445.9 kHz, 09-01, 1328 UTC, SITOR-A 100/170

Egyptian diplo i.p. Ends with KDJQJLOKH 8102 2018100MM KDJQJLOKH 8102 HUXDFFF+?

## UTILITY ROUND-UP

### Japanese Military

Japanese military morse logs submitted by F5JBR

3195 kHz, 09-01, 0950 UTC	JJT88: Japanese Air Force, Tokyo wkg JJT20 JJT55 JJS21 JJV56 JJZ37 JJT44 JJU22
3210 kHz, 09-01, 1000 UTC	JJT88: Japanese Air Force, Tokyo wkg JJX25 JJX36 JJZ59 JJZ48 JJZ26
2685 kHz, 09-01, 1000 UTC	JJT44: Japanese Air Force, Irumagawa wkg JJT30 JJT88 JJW35 JJV89 JJV40 JJW46 JJS76 JJT99
2671 kHz, 09-01, 1000 UTC	JJU22: Japanese Air Force, Asahikawa wkg JJU33 JJZ44 JJU55 JJU66
3587.5 kHz, 09-01, 1010 UTC	JJT88: Japanese Air Force, Tokyo wkg JJS21 JJR20 JJT77 JJT22 JJT46
3852.5 kHz, 09-01, 1015 UTC	JJZ37: Japanese Air Force, Itazuke wkg JJZ82 JJX58 JJX47 JJZ71 JJZ50 JJZ93 JJZ60
3691 kHz, 09-01, 1020 UTC	JJT88: Japanese Air Force, Tokyo wkg JJT20 JJT55 JJS32 JJT33 JJV23 JJV90 JJT44
3650.5 kHz, 09-01, 1030 UTC	JJT88: Japanese Air Force, Tokyo wkg JJV34 JJV56 JJT66 JJV67 JJW24
2421 kHz, 09-01, 1000 UTC	Japanese Army. PÛÛR wkg PÛÂZ, PÇPÇ, PÂMP, PÂDÇ : PÛPÛ, PÛVZ, RÛSÛ, PÛÇP, RÛÂM, RÛDÂ, RÛÛÇ. The collective callsign is PÂÂR

#### Japanese Air Force callsigns:

JJF3 Funakoshi	JJT99	JJX5
JJF19	JJU22 Asahikawa	JJX25 Miho Air Base
JJF20 Tokyo	JJU33 Yozadake	JJX36 Bofu
JJR20 Chitose	JJU55 Miyaoshima	JJX47
JJS21 Misawa Airbase, Misawa	JJU66 Kume Shima	JJX58
JJS32 Matsushima	JJV23 Komaki	JJZ26 Nyutabaru
JJS76	JJV34 Shizuhamas Shiz	JJZ37 Itazuke
JJT20	JJV40	JJZ44 Okinoerabu
JJT30	JJV46	JJZ48 Tsuiki
JJT33 Hyakurigahara	JJV55	JJZ50
JJT44 Irumagawa	JJV56 Hamamatsu	JJZ59 Ashiya Fukuoka
JJT46	JJV67 Gifu	JJZ60
JJT55 Fuchu	JJV89	JJZ71
JJT66 Kumagaya	JJV90 Komatsu	JJZ82
JJT72	JJW24 Nara	JJZ93
JJT77	JJW35	
JJT88 Tokyo	JJW46	

### Unid stations

Lots of unid stations were reported this month. If you know who they are, please let us know.

#### 4821 kHz, 02-01, 0834 UTC, CW, i.p. Logged by JPL in China

VVV CP1 DE 97V QSL ? K  
DE ? K  
VVV OCP QSA ? K  
VVV K6H DE 97V QSA ? K

#### 3348 kHz, 03-01, 1931 UTC, CW, i.p. Logged by F5JBR in Japan

LV (x3) 2DU (x2) de 1101 VVV  
LV (x3) 2DU (x2) de 1101 3824 (x2)  
LV (x3) 2DU (x2) de 1101 VVV  
LV (x3) 2DU (x2) de 1101 3824 (x2)  
QTC QTC NR 0114 10 01 04 0400 1101003 =  
45313 39847 57329 84369 72098 30241 09683 30241 80369 74321  
QTC QTC NR 0114 10 01 04 0400 1101003 =  
45313 39847 57329 84369 72098 30241 09683 30241 80369 74321  
QTC QTC NR 0114 10 01 04 0400 1101003 =  
45313 39847 57329 84369 72098 30241 09683 30241 80369 74321



**5919 kHz, 04-01, 0947 UTC, CW, i.p. Logged by JPL in China**

VV QSV K  
VVV CZP DE QNP QSV K  
RR  
DE RHW RHW  
DE  
DE QNP  
OK ZNN ... K  
QR..  
OK

**8151 kHz, 04-01, 0738 UTC, CW, i.p. Logged by F5JBR in Japan**

HAD4 wkg HABE, HAYD7, HADX9  
QTC = 38 AAA 3200 = 122 AAA 3400 = 1200 = WHL 1000 = OE 100 = ETA 00 = 5/0400 = AR  
QSP QRX 08/81

**8151 kHz, 06-01, 0732 UTC, CW, i.p.. Logged by F5JBR in Japan**

HAD4 de HMCY7 QTH 37 AAA 16 = 133 = GAL 01 = WX WHL GT 10 = OE/22 = AR de HMYC7 GA ? K  
HAD4 de HMCY7 QTH QTH = 37 AAA 16 / 133 AAA 01 = GAL / 10 WX WHL GT /10  
OE/22 AR QRX QRX 18/81  
HAD4 GA  
HMCY7 QTH = 37 AAA 16 = 133 AAA 01 = GAL 10 = WX = WHL GT /10 = OE/22 AR 0739z  
HMCY7 de HMBE QTH 38 00 = 5400 /12400 = 0700 = GAL 9 AAA 5 = 108 =  
OE/2200 AR  
HAD4 de HMCY7 K  
HMBE de HAD4 QSP QTH 38 AA54 00 = 124 AAA 0700= GAL 9 AAA 5 = ETA  
05/0400 = OE/2200 AR  
HMBE QSL  
HAD4 QRX 18/81  
HMBE QSL AR

**4821 kHz, 05-01, 0831 UTC, CW, i.p. Logged by JPL in Japan**

VVV 2PK DE 97V QSA ? K  
VVV 2PK DE 97V QSA ? K  
VVV FX5 DE 97V QSA ? K  
VVV 2PK DE 97V QSA ? K  
VVV 2PK DE 97V QSA ? K  
DE ? K  
DE ? K  
VVV 2PK DE 97V QSA 2 K  
DE ? K  
VVV 2PK DE 97V QSA ? K

**6710 kHz, 09-01, 0929 kHz, i.p. Logged by by JPL in China**

JXHQZ VWQPZ TPYTT KSUBB JFNRO (Cont'd)  
AR 7G  
NR 66 411 66 411 AL =  
PPUTO RSSWS TMJZQ IZXPR USTFE (Cont'd)  
AR 7G  
NR 66 622 66 622 AL =  
QGPMC XDKWR MWQWQ OHWYB (Cont'd)  
AR 7G  
NR 66 722 66 722 CK CK 37 37 AL =  
INHR. HUQRY WQRKY BDNWV (Cont'd)  
AR O HR QIIT K  
VV R B B  
R R R B B  
VV 3UO 3UO DE 9UV GB QSY 5200 5200 5200 5200 5200  
SSS OF..  
UX... R R OHR O..

**8218 kHz, 11-01, 0630 UTC, CW. Logged by F5JBR in Japan**  
RHH41 de 8LVUR QSA ? K. QRU NIL SK GB

**8218 kHz, 12-01, 0630 UTC, CW. Logged by F5JBR in Japan**  
RHH41 de 8LVUR QSA ? K. QRU NIL SK GB

**3198 kHz, 12-01, 1918 UTC, CW. Logged by F5JBR in Japan**  
3W9 de DWE QSA ? 7310 VVV  
3W9 de DWE QSA ? 7310 VVV  
NR 1214 10 01 13 0335 854 7310 =  
67931 73256 56782 93176 23756 45617 24562 43679 45162 23  
NR 1214 10 01 13 0400 1359 001 =  
67931 73256 56782 93176 23746 45617 24562 43679 45162 23658

**4626 kHz, 16-01, 1037 UTC, i.p. Logged by JPL in Japan.**  
VVV 8XB (x3) DE 8RJ (x2) QRU  
9627 9627.. SK SK

**Both logged by F5JBR in Japan**  
5120 kHz, 20-01, 0803 UTC, i.p. CP CP CP de H721 H721 H721 QRU ? K AR  
4220 kHz, 20-01, 0830 UTC, i.p. CP CP CP de H721 H721 H721 QRU ? K AR

**10229 kHz, 23-01, 0745 UTC, i.p. Logged by JPL in China**  
VVV VVV THN THN THN DE SD7 SD7 SD7 QSA ? QSA ? ZNN ZNN K K K

**4578 kHz, 29-01, 1604 UTC, logged by JPL in China**  
VVV BMY BMY BMY DE 7LG 7LG

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**11165 kHz, 05-01, 0811 UTC, CW, i.p. Logged by JPL in Siberia**  
QTC 1. REBL K  
= 2011 00 05 0800 9184 K  
CFM QRU ? K  
SK  
CFM SK 0814 K (Using GMT time?)  
SK

**11165 kHz, 14-01, 0838 UTC, i.p. Logged by JPL in Siberia**  
6 QTC 1 ZT5 PBL? K  
R K  
HR 641 08 39 K  
VVV TAW2 0014 0740 8651 K  
CFM NIL K  
SK SK  
0842 K (Station using GMT?)

## ***RUSSIAN MILITARY TRANSCRIPTS***

Excerpts from logs submitted by: AB, AnEur, JPL, F5JBR

### ***RMv/RNv/RNAv/RAv - Russian military voice transmissions***

RADv – Russian Air Defense

4172 kHz, 03-01, 0830 UTC    Tracking  
4380 kHz, 03-01, 0844 UTC    Tracking  
5241 kHz, 03-01, 0918 UTC    Tracking  
3400 kHz, 06-01, 1330 UTC    Tracking

## M32 - Russian / CIS Military CW Stations

Below an update on the net that we have been following during the past few months.

Callsigns and frequencies per 01 January	Callsigns and frequencies per 01 January
<b>Daytime frequencies</b>	<b>Night time frequencies</b>
Net Control 100064	Net Control 5596
Outstations ?	Outstations 5693
<b>Daytime callsigns</b>	<b>Night time callsigns</b>
Net Control OEF1	Net Control 1EN9
Collective callsign ?	Collective callsign ?
Out stations N8ZV, 6PAV, CMCL, 2KKI, LS6C	Outstations NEZA, GR2W, BAWs, VYZI, YMCY

Callsigns per 21 January	Callsigns per 21 January
<b>Daytime callsigns</b>	<b>Nighttime callsigns</b>
Net control FIZO	Net control LA4M
Collective callsign ZKYP	Collective callsign ?
Outstations NNCL, NHCR, 7LL1, 6V9V(?), CMLU	Outstations CCGI, VYBF, BIE1, E4P5, KTWN

Callsigns per 31 January	Callsigns per 31 January
<b>Daytime callsigns</b>	<b>Nighttime callsigns</b>
Net control SKTC	Net control LA4M
Collective callsign ?	Collective callsign EHIP
Outstations J4PR, SZDU, MQWU, DJTR, QWJN	Outstations DCC8, VYB,F BIE1, ????, KTWN

5596 kHz, 01-01, 1857 UTC	1EN9 wkg NEZA, GR2W, BAWs, VYZI, YMCY
10064 kHz, 02-01, 0727 UTC	OEF1 wkg LS6C: ZFT ZBC ZYK QYT4
10064 kHz, 02-01, 0737 UTC	OEF1 wkg LS6C: QRJ NO QYT 4 K
10064 kHz, 02-01, 0901 UTC	OEF1 wkg N8ZV, 6PAV, CMCL, 2KKI, LS6C
5596 kHz, 10-01, 1624 UTC	1EN9 wkg VYZI: QDA? GR2W K
10064 kHz, 11-01, 1215 UTC	BH4X wkg YO6R, 2KN8, 1S1C, MKB6, MLYC
10064 kHz, 22-01, 1148 UTC	FIZO clg ZKYP
10064 kHz, 22-01, 1151 UTC	FIZO clg ZKYP
10064 kHz, 22-01, 1201 UTC	FIZO clg NHCR and 7LL1 QDK QSA?
10064 kHz, 22-01, 1316 UTC	FIZO clg ZKYP QTC 501 27 22 1615 501 = 915 =
	WGLSO IAGRN WZTKL UFCIN TKSOL ? WWPWT K
5596 kHz, 31-01, 1609 UTC	LA4M wkg DCC8 and VYBF on 5693 kHz
5693 kHz, 31-01, 1609 UTC	KTWN and DCC8 wkg LA4M on 5596 kHz

### 12807 kHz, 01-01, 0908 UTC, i.p..

ADFBQ QHPYF GBZB EEEEE QHPYF GBZME KEÄKÄ TMLYR AVTNY BYÜGD AKWWA TNXAB K =  
 JVHÜF K =  
 HPÜZW K =  
 ÇVTAE K =  
 HMSÜD K =  
 KEÄÄÄ K =  
 OK RPT GR 7 K  
 RPT GR 11 K  
 OK ZNN SK

**6817 kHz, 14-01, 0853 UTC, i.p.**

71147 52064 52839 24935 76854 14023 QTC K  
HEZT 164 24 14 1147 164 =  
687 =  
31142 19309 77373 33847 58026 14218 85690 46384 30432 16320  
40090 36162 34153 89723 90329 63977 09389 78749 83785 22412  
08540 68921 14022 QTC K  
= 40090 K  
HEZT 790 23 14 1149 790 =  
687 =  
13418 00642 47715 84145 70950 54338 02016 62149 44976 50252  
05170 23535 55343 31048 96235 06906 20165 11984 92098 19179  
97146 14021 RPT AL K

**6777 kHz, 15-01, 0732 UTC, i.p.**

1258 = 5548 = 6293 = 7013 = 6058 = 880 K  
= 8804 = 7872 = 1527 K AR

**4252.3 kHz, 26-01, 1027 UTC, i.p.**

27387 78237 72328 27382 38723 23872 38723 72483 28324 78732  
87328 72358 72738 23873 28732 87328 32783 77882 87387 K  
=  
11111 55554 88888 99999 54523 78451 21548 98541 45874 56524  
789.4 72387 87320 32541 23558 .9.54 78659 32878 .2387 23879  
97328 32378 83277 32873 23872 3882. 87722 32723 38772 88733  
33228 87234 7..29 13287 71328 7.328 78238 23873 23872 32832  
72378 27387 78237 72328 27382 38723 23872 38723 72483 28324  
78732 87328 72358 72738 23873 28732 87328 32783 77882 87387 K  
=  
11111 55554 88888 99999 (repeats message) K  
= J =  
11111 55554 888 stops

5911 kHz, 03-01, 0951 UTC	XXX 8S1Q 48073 NAHAL 5855 5708 WARAQENXE 0154 6779 K
5911 kHz, 03-01, 0951 UTC	XXX 8S1Q 48073 NAHAL 5855 5708 WARAQENXE 0154 6779 K
3207 kHz, 10-01,1546 UTC	79528 LÜDOGLAS 6106 7049 OBUWNOJ 2321 2557 K
3217 kHz, 10-01,1546 UTC	79528 LÜDOGLAS 6106 7049 OBUWNOJ 2321 2557 K
3220 kHz, 10-01,1546 UTC	XXX VUOZ 41957 GULOFAKS 1450 6897 K
3220 kHz, 10-01,1602 UTC	XXX VUOZ 28058 WERTKOSTX 6621 9969 WYHMH OLXNYJ 7732 2280 K
3241 kHz, 10-01,1542 UTC	XXX LOMO 25470 WYLEZNOJ 1969 8020 K
3354 kHz, 10-01,1546 UTC	XXX MFT5 79528 LÜDOGLAS 6106 7049 OBUWNOJ 2321 2557 K
3354 kHz, 10-01,1557 UTC	XXX MFT5 47919 BéROGROB 5886 6075 K
3364 kHz, 10-01,1548 UTC	XXX MFT5 26962 BREGOMED 5420 4121 K
3372 kHz, 10-01,1550 UTC	XXX 01906 MOSTOFAWN 4337 0262
5418 kHz, 10-01,1536 UTC	XXX WEGI 80637 KABELXQIK 6622 9778 K
7678 kHz, 10-01, 1251 UTC	XXX MFT5 28812 GACHEFT 9442 4705 K
14410 kHz, 17-01, 0817 UTC	XXX XXX RDL RDL 66852 06414 RABOBERN 6178 9664 K
10433 kHz, 17-01, 1338 UTC	XXX XXX WEGI WEGI 71988 09147 U?IBOHALL 6029 8105 K
11468 kHz, 31-01, 1336 UTC	XXX XXX RDL RDL 33788 12440 OBODOWOIN 6866 5717 K

**Lots of logs from André F5JBR:**

**2814 kHz, 10-01**

1922 UTC 6D4M wkg 7 outstations  
ZMKE de 6D4M QTC 861 8 10 2220 861 = ZKL 813 = 3575 5516 6804 2138 5516 1005 K  
1942 UTC K4VK de 6D4M 991 = 3575 1877 9335 1879 7541 6385 4182 5565 0558 8954 9359 7580 3354 7600 1014 K  
1926 UTC ZMKE de IBBY QTC AR 156 8 10 2221 156 = ZEZ 813 = 3575 9332 6805 2421 9332 1005 K  
1936 UTC K4VK de IBBY QTC 831 = 3575 0588 1970 8303 5301 7257 0567 5499 7682 8036 0588 1011 k  
1948 UTC HOZI de K4VK QTC 841 = 3475 3846 3376 0404 1288 2016 3370 6420 0367 4042 7201 8821 6555 5240 1014 K  
1935 UTC K4VK de X1L9 QTC 179 = 3575 5623 2685 0110 0443 3783 0446 9373 6079 5623 1010 K  
1944 UTC ZMKE de YTSL QTC 410 8 10 2239 410 = ZBH 813 = 3575 4663 6132 0296 4663 1005 K  
1946 UTC KV4K de YTSL QTC 741 = 3575 1043 5711 6684 0430 5166 6487 1190 0958 1043 1010 K  
1951 UTC K4VK de YTSL QTC 765 18 10 2250 765 = ZHN 813 =  
3575 3418 9394 7714 5938 8370 8863 8509 8600 6247 4239 3790 3853 5628 5960 1015 K  
1956 UTC ZMKE de K4VK QTC 093 = 3575 4644 3773 3949 7485 4279 7255 4644 1008 K  
2000 UTC ZMKE de K4VK QTC AR 247 = 3575 9680 2773 3949 7544 9680 1006 K

2297 kHz, 10-01, 1645 UTC 9V5C wkg 5 outstations  
2654 kHz, 03-01, 1407 UTC F6DZ wkg 11 outstations QSX on 2382 //2216  
2706 kHz, 03-01, 1359 UTC BUND wkg 5 outstations QSX on 3229  
2793 kHz, 03-01, 1425 UTC AGIP wkg 5 outstations  
2820.5 kHz, 10-01, 1645 UTC 1AXF wkg 3 outstations  
2820.5 kHz, 10-01, 1640 UTC 5ZZE wkg 3 outstations  
2822 kHz, 03-01, 1405 UTC M6QP wkg 7 outstations QSX on 2322  
3160 kHz, 06-01, 1334 UTC DOFG wkg 5 outstations  
3164 kHz, 07-01, 1418 UTC KOGO wkg 6 outstations  
3170.5 kHz, 07-01, 1421 UTC NQ6K wkg 5 outstations  
3171 kHz, 10-01, 1407 UTC 3V2G wkg 3 outstations  
3207 kHz, 10-01, 1631 UTC ZDGT wkg 5 outstations QSX on 2692  
3209 kHz, 06-01, 1332 UTC N3PN wkg 4 outstations  
3211 kHz, 10-01, 1913 UTC 8PKS wkg 7 outstations QSX on 3775  
3213 kHz, 10-01, 1908 UTC ORAK-92 wkg 1 outstations  
3217 kHz, 03-01, 1736 UTC YT12 wkg 7 outstations QSX on 3393  
3220 kHz, 10-01, 1907 UTC OVD2 wkg 3 outstations  
3224 kHz, 07-01, 1338 UTC TLE7 send messages  
3231.5 kHz, 10-01, 1920 UTC A1SW wkg 3 outstations  
3240.5 kHz, 10-01, 1623 UTC 3LA1 wkg 4 outstations in Duplex QSX on 3311  
3271 kHz, 07-01, 1401 UTC 6MZK wkg 4 outstations  
3275 kHz, 07-01, 1402 UTC F2J1 wkg 7 outstations  
3288 kHz, 06-01, 0833 UTC 5P1I wkg 4 outstations  
3333 kHz, 07-01, 1416 UTC NVIQ wkg 4 outstations  
3335 kHz, 07-01, 1411 UTC 2PCV wkg 3 outstations  
3352.5 kHz, 10-01, 1634 UTC WOAW wkg 3 outstations  
3364 kHz, 03-01, 1501 UTC A3SK wkg with 12 outstations QSX on 3308  
3366 kHz, 03-01, 1503 UTC SAWY wkg 7 outstations  
3399 kHz, 10-01, 1702 UTC SGP4 wkg 4 outstations  
3550 kHz, 07-01, 1353 UTC 8P3N wkg 3RI2 J8ZI  
3594.5 kHz, 12-01, 1910 UTC W5GM wkg 3 SS  
3682 kHz, 10-01, 1702 UTC JXFF sends messages  
3762.5 kHz, 12-01, 0533 UTC I9SW wkg 7 outstations  
3861 kHz, 07-01, 1328 UTC IPGO wkg 4 outstations  
4003 kHz, 12-01, 0606 UTC 7HKY wkg 1 outstations  
4020 kHz, 10-01, 1158 UTC F95P sends messages  
4024 kHz, 07-01, 1316 UTC ZJ5V wkg 3 outstations  
4033.5 kHz, 07-01, 1352 UTC 4NHA wkg 4 outstations  
4108 kHz, 09-01, 0606 UTC SYD6 wkg 2 outstations  
4133 kHz, 07-01, 1311 UTC TUMC wkg 3 outstations  
4193.5 kHz, 10-01, 1644 UTC TWLT wkg 3 outstations  
4193.5 kHz, 03-01, 1424 UTC Z89C wkg 7 outstations  
4197.5 kHz, 03-01, 1440 UTC POIR send messages  
4256.5 kHz, 09-01, 0735 UTC NVCG wkg 11 outstations QSX on 3742 //3965

4285 kHz, 09-01, 0638 UTC	OXOV wkg 4 outstations
4330 kHz, 03-01, 0830 UTC	HZH8 wkg 4 outstations QSX on 4133
4386.5 kHz, 12-01, 0603 UTC	ZO3S wkg des outstations
4442 kHz, 03-01, 0938 UTC	STGY wkg 7 outstations QSX on 5436
4459 kHz, 03-01, 0604 UTC	ZA22 wkg 3 outstations
4761.5 kHz, 09-01, 0625 UTC	TPT3 wkg 6 outstations
4781 kHz, 09-01, 1324 UTC	W6HF wkg 4 outstations QSX on 4524.5
4784.5 kHz, 03-01, 0856 UTC	AAAG wkg 3 Stations
4799 kHz, 03-01, 0740 UTC	ZEN1 wkg 9 outstations QSX on 4286
4799 kHz, 07-01, 0900 UTC	ZEN1 wkg 5 outstations
4831 kHz, 03-01, 1201 UTC	AELA wkg 3 outstations
4837 kHz, 10-01, 0800 UTC	MDLJ wkg 3 outstations
4862 kHz, 07-01, 0815 UTC	3ELT wkg 4 outstations
4862 kHz, 07-01, 0625 UTC	Z3NW wkg 4 outstations QSX on 4356
4879 kHz, 09-01, 1201 UTC	S2KI wkg 5 outstations
4929.5 kHz, 11-01, 1405 UTC	6YED
4947 kHz, 09-01, 0630 UTC	5MXB wkg 2 outstations
5065.5 kHz, 06-01, 1317 UTC	TLE7 send messages
5078 kHz, 10-01, 0753 UTC	JHDH wkg 6 outstations QSX on 4416
5200.5 kHz, 03-01, 1019 UTC	LOA1 wkg 3 outstations
5200.5 kHz, 07-01, 0844 UTC	PWBU wkg 3 outstations
5223 kHz, 10-01, 1141 UTC	XLDW wkg 1 outstations
5240.5 kHz, 11-01, 1411 UTC	KY7R wkg outstations
5286 kHz, 03-01, 1025 UTC	XOD7 Wkd 7 outstations QSX on 5202
5286 kHz, 07-01, 0843 UTC	YMNT wkg 7 outstations QSX on 5202
5361 kHz, 06-01, 1311 UTC	DWME wkg 7 SS
5361 kHz, 03-01, 0913 UTC	VUKS wkg 7 Stations
5376 kHz, 11-01, 1404 UTC	NPWB wkg 3 outstations QSX on 4872
5386 kHz, 10-01, 1122 UTC	XS9T wkg 3 outstations
5421.5 kHz, 06-01, 1302 UTC	IE4L sends messages
5780.5 kHz, 10-01, 1209 UTC	NYYM wkg 7 outstations
5784 kHz, 07-01, 0840 UTC	LDBO send QTCs
5823 kHz, 10-01, 1202 UTC	TUMA wkg 4 outstations
5862 kHz, 07-01, 0830 UTC	HRUK wkg 4 outstations QSX on 6754
5878 kHz, 07-01 1306 UTC	7MGK wkg 3 outstations
5897 kHz, 07-01, 0852 UTC	ILNC (NET use 2 callsigns) wkg 11 outstations QSX on 5281
5897 kHz, 03-01, 1022 UTC	P5AG wkg 11 outstations QSX on 5281
5911 kHz, 03-01, 0953 UTC	ZJYK QTC 2 AR
6220 kHz, 11-01, 1414 UTC	3VTN wkg 3 outstations QSX on 5479
7183.5 kHz, 11-01, 0554 UTC	MSTM wkg 3 outstations
7628 kHz, 06-01, 1300 UTC	TUHZ wkg 4 outstations JFHD
7637.5 kHz, 03-01, 1012 UTC	AGIP wkg 5 outstations QSX on 7754
7678 kHz, 03-01, 1003 UTC	JD9I wkg 12 outstations QSX on 7854
7922 kHz, 03-01, 1010 UTC	S6CD wkg 6 outstations QSX on 6983
7968 kHz, 10-01, 1220 UTC	5TZU wkg 7 outstations QSX on 6988
8180 kHz, 10-01, 0800 UTC	NMCZ wkg 3 outstations
8408 kHz, 05-01, 0817 UTC	X6AS wkg 3 outstations
9326 kHz, 06-01, 0815 UTC	8FJ1 wkg 6 outstations
11038 kHz, 04-01, 0705 UTC	Response 3 outstations (C1DD GOLU QASN)

### ***M32a - Russian Navy (Voyenno-Morskoy Flot Rossii)***

4406 kHz, 03-01, 0849 UTC	RMP: Russian Navy Kaliningrad wkg REO
4940.5 kHz, 03-01, 0853 UTC	RIQ88 wkg RAI62 and RAI63
7954 kHz, 03-01, 0959 UTC	RIT: Russian Navy Severomorsk wkg RLO
2166 kHz, 03-01, 1744 UTC	RMP: Russian Navy Kaliningrad wkg REO //2737 kHz
2600 kHz, 03-01, 1753 UTC	RMAE wkg RMU51

#### **8191 kHz, 05-01, 0751 UTC. RMP: Russian navy Kaliningrad weather for collective call REO**

REO REO REO DE RMP RMP QTC 571 41 5 1045 571 = SML =

BALTIJSKOE MORE OPOWEQENIE NR 10 SHORMOWOE PREDUPREVDENIE PO RAJONU 1 ÜVNOM ÜGOZAPADNOM WETRE 12 TIRE 17 MS ZAMENÄETSÄ NA SHORMOWOE 12 TIRE 15 MS TOGO VE NAPRAWLENIÄ SHORMOWOE PREDUPREVDENIE PO RAJONU 4 ÜGOZAPADNOM ZAPADNOM WETRE 12 TIRE 17 MS OTMENÄETSÄ AR

#### **8191 kHz, 07-01, 0940 UTC. RMP: Russian navy Kaliningrad weather for collective call REO**

REO REO REO DE RMP RMP QTC 848 57 7 1233 848 = SML =

BALTIJSKOE MORE SHORMOWOE PREDUPREVDENIE NR 7 7 ÄNWARÄ PERIOD 18 TIRE 21 ÖAS PO RAJONU 3 OVIDAETSÄ DALXNEJSHEE USILENIE ZAPADNOGO SEWEROZAPADNOGO WETRA 13 TIRE 23 MS 7 ÄNWARÄ PERIOD 21 TIRE 24 ÖASA PO RAJONU 1 OVIDAETSÄ USILENIE ZAPADNOGO WETRA 12 TIRE 15 MS PO RAJONU 2 DALXNEJSHEE USILENIE ZAPADNOGO SEWEROZAPADNOGO WETRA 18 TIRE 23 MS AR

#### **4766 kHz, 22-01, 1750 UTC, i.p.**

DE RMP ZD ZDU 4766 4766 K

RMP RMP DE RKA80 RKA80 ZD? K

VVV RKA80 RKA80 RKA80 RMP RMP ZD ? K

### ***M32b - Russian Naval Aviation (Aviatsiya Voennomorskogo Flota Rossii)***

#### **8816 kHz, 10-01, 0831 UTC**

RJC38 RJF94 DE 26675 QTH 16456 13429 QTR 0824 QBG 5800 QBD 0400 K

QTH 16148 13643 QTR 0911 QBG 5800 QRE XLWF 0945 K

QQM XLWF 0955 SK

#### **8816 kHz, 10-01, 0926 UTC**

RJF94 RJC38 DE 08032 QTO 0920 QRD XLDR XLMV QRE 1055 QBD 0500 K

QTH 17038 14415 QTR 1019 QBG 6300 K

QRF XLMV QRE 1300 K

QTH 16950 13837 QTR 1219 QBG 6700 QBD 0200 K

QQM 1246 SK

### ***M32c - Russian Air Force (Voyenno-vozdushnye sily Rossii)***

4649 kHz, 03-01, 0840 UTC

REA4 : Russian Air Force Moscow

## LOGS SECTION

Code	Freq	Date	UTC	Day	Details	Mode	ctrb
---	4821	2-1	0834	Tue	i.p. VVV CP1 DE 97V QSL ? K. DE ? K. VVV OCP QSA ? K. VVV K6H DE 97V QSA ? K	CW	(JPL-CHN)
---	3348	3-1	1931	Wed	LV (x3) 2DU (x2) de 1101 3824 (x2) QTC QTC NR 0114 10 01 04 0400 1101003 = 45313 39847 57329 84369 72098 30241 09683 30241 80369 74321	CW	(F5JBR-J)
---	8151	4-1	0738	Thu	HAD4 wkg HABE, HAYD7, HADX9 QTC = 38 AAA 3200 = 122 AAA 3400 = 1200 = WHL 1000 = OE 100 = ETA 00 = 5/0400 = AR	CW	(F5JBR-J)
---	5919	4-1	0947	Thu	VVV CZP DE QNP QSV K. RR DE RHW RHW DE DE QNP OK ZNN ... K QR.. OK	CW	(JPL-CHN)
---	11165	5-1	0811	Fri	i.p. QTC 1. REBL K. = 2011 00 05 0800 9184 K. CFM QRU ? K. SK CFM SK 0814 K (Using GMT time?) SK	CW	(JPL-Sib)
---	4821	5-1	0831	Fri	i.p. VVV 2PK DE 97V QSA ? K. VVV FX5 DE 97V QSA ? K	CW	(JPL-J)
---	8151	6-1	0732	Sat	i.p. HAD4 de HMCY7 QTH 37 AAA 16 = 133 = GAL 01 = WX WHL GT 10 = OE/22 = AR de HMYC7 GA ? K	CW	(F5JBR)
---	6710	9-1	0929	Tue	i.p. JXHQZ VWQPZ TPYTT KSUBB JFNRO (Cont'd)	CW	(JPL-CHN)
---	8218	11-1	0630	Thu	RHH41 de 8LVUR QSA ? K. QRU NIL SK GB	CW	(F5JBR-J)
---	8218	12-1	0630	Fri	RHH41 de 8LVUR QSA ? K. QRU NIL SK GB	CW	(F5JBR-J)
---	3198	12-1	1918	Fri	3W9 de DWE QSA ? 7310 VVV NR 1214 10 01 13 0335 854 7310 = 67931 73256 56782 ... 43679 45162 23658	CW	(F5JBR-J)
---	11165	14-1	0838	Sun	6 QTC 1 ZT5 PBL? K. R K. HR 641 08 39 K. VVV TAW2 0014 0740 8651 K. CFM NIL K. SK SK 0842 K	CW	(JPL-Sib)
---	4626	16-1	1037	Tue	i.p. VVV 8XB (x3) DE 8RJ (x2) QRU 9627 9627.. SK SK	CW	(JPL-J)
---	4220	20-1	0803	Sat	i.p. CP CP CP de H721 H721 H721 QRU ? K AR	CW	(F5JBR-J)
---	5120	20-1	0803	Sat	i.p. CP CP CP de H721 H721 H721 QRU ? K AR	CW	(F5JBR-J)
---	10229	23-1	0745	Tue	VVV VVV THN THN THN DE SD7 SD7 SD7 QSA ? QSA ? ZNN ZNN K K K	CW	(JPL-CHN)
---	4578	29-1	1604	Mon	VVV BMY BMY BMY DE 7LG 7LG	CW	(JPL-CHN)
DPRK	9015	1-1	0824	Mon	North Korean diplo i.p.	DPRK-ARQ 600 LSB	(AB)
DPRK	9555	1-1	0824	Mon	North Korean diplo i.p.	DPRK-ARQ 600 LSB	(AB)
DPRK	13322	1-1	0824	Mon	North Korean diplo i.p.	DPRK-ARQ 600 LSB	(AB)
DPRK	13555	1-1	0824	Mon	North Korean diplo i.p.	DPRK-ARQ 600 LSB	(AB)
DPRK	14444	1-1	0824	Mon	North Korean diplo i.p.	DPRK-ARQ 600 LSB	(AB)
DPRK	12850	1-1	0840	Mon	North Korean diplo i.p.	DPRK-ARQ 600 LSB	(AB)
DPRK	13450	2-1	1339	Tue	North Korean diplo i.p.	DPRK-ARQ 600 LSB	(AB)
DPRK	16242	5-1	0802	Fri	North Korean diplo i.p.	DPRK-ARQ 600 LSB	(AB-CHN)
DPRK	16319	5-1	0825	Fri	North Korean diplo i.p.	DPRK-ARQ 600 LSB	(AB-CHN)
DPRK	16025	13-1	0850	Sat	North Korean diplo i.p.	DPRK-ARQ 600 LSB	(AB)
DPRK	12850	17-1	1232	Wed	North Korean diplo i.p.	DPRK-ARQ 600 LSB	(AB)
DPRK	13555	28-1	0812	Sun	North Korean diplo i.p.	DPRK-ARQ 600 LSB	(AB)
DPRK	10850	29-1	1347	Mon	North Korean diplo Moscow. Message to North Korean embassy Vienna	DPRK-ARQ LSB	(Danix)
DPRK	11320	29-1	1352	Mon	North Korean diplo Moscow. Message to unid North Korean embassy	DPRK-ARQ LSB	(Danix)
DPRK	14530	29-1	1354	Mon	North Korean diplo Moscow. Message to North Korean embassy Rome	DPRK-ARQ LSB	(Danix)
DPRK	9555	29-1	1357	Mon	North Korean diplo Moscow. Message to North Korean embassy Warsaw	DPRK-ARQ LSB	(Danix)
DPRK	12333	29-1	1400	Mon	North Korean diplo Moscow. Message to unid North Korean embassy	DPRK-ARQ LSB	(Danix)
DPRK	9555	29-1	1406	Mon	North Korean diplo Moscow. Message to North Korean	DPRK-ARQ LSB	(Danix)



					embassy Stockholm			
E06	4836	4-1	2030	Thu	321 321 321 00000	USB	(AB/BW3-RUS)	
E06	13945	5-1	0600	Fri	139 860 52 57169 92190 54426 ... 77510 97907 59809 860 52 00000	USB	(AB-GRC)	
E06	16350	5-1	0700	Fri	139 860 52 57169 92190 54426 ... 77510 97907 59809 860 52 00000	USB	(AB-GRC)	
E06	4760	5-1	2130	Fri	472 183 77 73413 48673 92659 ... 91242 17492 27491 183 77 00000	USB	(AB)	
E06	13945	18-1	0600	Thu	139 427 56 06163 69174 20580 ... 14633 35630 83762 427 56 00000	USB	(AB-RUS/HFD)	
E06	16350	18-1	0700	Thu	139 427 56 06163 69174 20580 ... 14633 35630 83762 427 56 00000	USB	(AB-RUS/HFD)	
E06	4836	18-1	2030	Thu	321 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000	USB	(AB)	
E06	4760	19-1	2130	Fri	427 289 54 12345 89657 45632 ... 64618 84021 72492 289 54 00000	USB	(AB)	
E06	12218	24-1	0400	Wed	??? 204 37 ...	USB	(CR2)	
E07	6776	1-1	2100	Mon	770 770 770 000	USB	(AB)	
E07	5767	1-1	2120	Mon	770 770 770 000	USB	(AB)	
E07	13523	2-1	1100	Tue	516 516 516 000	USB	(AB)	
E07	12123	2-1	1120	Tue	516 516 516 000	USB	(AB)	
E07	8194	3-1	1800	Wed	172 172 172 000	AM	(AB/MPJ/HFD)	
E07	6794	3-1	1820	Wed	172 172 172 000	AM	(AB/MPJ/HFD)	
E07	6776	3-1	2000	Wed	770 770 770 000	USB	(AB/MPJ/HFD)	
E07	5767	3-1	2020	Wed	770 770 770 000	USB	(AB/MPJ/HFD)	
E07	6777	4-1	2110	Thu	744 744 744	USB	(AB)	
E07	5449	4-1	2130	Thu	744 744 744	USB	(AB)	
E07	13523	5-1	1100	Fri	516 516 516 000	USB	(AB/MPJ/HFD)	
E07	12123	5-1	1120	Fri	516 516 516 000	USB	(AB/MPJ/HFD)	
E07	8123	6-1	0700	Sat	134 134 134 000	USB	(AB/HFD)	
E07	9323	6-1	0720	Sat	134 134 134 000	USB	(AB/HFD)	
E07	8123	7-1	0700	Sun	134 134 134 000	USB	(AB)	
E07	9323	7-1	0720	Sun	134 134 134 000	USB	(AB)	
E07	8194	7-1	1800	Sun	172 172 172 000	USB	(AB/MPJ)	
E07	6794	7-1	1820	Sun	172 172 172 000	USB	(AB)	
E07	6776	8-1	2100	Mon	770 770 770 000	USB	(AB/MPJ)	
E07	5767	8-1	2120	Mon	770 770 770 000	USB	(AB/MPJ)	
E07	13523	9-1	1100	Tue	516 516 516 000	USB	(AB)	
E07	12123	9-1	1120	Tue	516 516 516 000	USB	(AB/MPJ)	
E07	8194	10-1	1800	Wed	172 172 172 000	AM	(AB-GRC/MPJ)	
E07	6794	10-1	1820	Wed	172 172 172 000	AM	(AB-GRC/MPJ)	
E07	6776	10-1	2000	Wed	770 770 770 000	USB	(AB/MPJ)	
E07	5767	10-1	2020	Wed	770 770 770 000	USB	(AB/MPJ)	
E07	6777	11-1	2110	Thu	744 744 744	USB	(AB)	
E07	5449	11-1	2130	Thu	744 744 744	USB	(AB)	
E07	13523	12-1	1100	Fri	516 516 516 000	USB	(AB/MPJ)	
E07	12123	12-1	1120	Fri	516 516 516 000	USB	(AB/MPJ)	
E07	8123	13-1	0700	Sat	134 134 134 000	USB	(AB)	
E07	9323	13-1	0720	Sat	134 134 134 000	USB	(AB)	
E07	8123	14-1	0700	Sun	134 134 134 000	USB	(AB)	
E07	9323	14-1	0720	Sun	134 134 134 000	USB	(AB)	
E07	8194	14-1	1800	Sun	172 172 172 000	USB	(AB/MPJ)	
E07	6794	14-1	1820	Sun	172 172 172 000	USB	(AB/MPJ)	
E07	6776	15-1	2000	Mon	770 770 770 1 116 92 116 92 00858 73711 68042 ... 46650 48837 93331 000 000	USB	(AB/MPJ)	
E07	5767	15-1	2020	Mon	770 770 770 1 116 92 116 92 00858 73711 68042 ... 46650 48837 93331 000 000	USB	(AB)	
E07	5067	15-1	2040	Mon	770 770 770 1 116 92 116 92 00858 73711 68042 ... 46650 48837 93331 000 000	USB	(AB)	
E07	13523	16-1	1100	Tue	516 516 516 1 1335 85 1335 85 83256 94586 29698 ... 97164 00963 52661 16584 000 000	USB	(AB/MPJ)	
E07	12123	16-1	1120	Tue	516 516 516 1 1335 85 1335 85 83256 94586 29698 ... 97164 00963 52661 16584 000 000	USB	(AB/MPJ)	
E07	10623	16-1	1140	Tue	516 516 516 1 1335 85 1335 85 83256 94586 29698 ... 97164 00963 52661 16584 000 000	USB	(AB/MPJ)	
E07	8194	17-1	1800	Wed	172 172 172 000	AM	(AB)	
E07	6794	17-1	1820	Wed	172 172 172 000	AM	(AB)	

E07	6776	17-1	2000	Wed	770 770 770 1 116 92 116 92 00858 73711 68042 ... 46650 48837 93331 000 000	USB	(AB/MPJ)
E07	5767	17-1	2020	Wed	770 770 770 1 116 92 116 92 00858 73711 68042 ... 46650 48837 93331 000 000	USB	(AB)
E07	5067	17-1	2040	Wed	770 770 770 1 116 92 116 92 00858 73711 68042 ... 46650 48837 93331 000 000	USB	(AB)
E07	6777	18-1	2110	Thu	744 744 744 1 205 58 205 58 54028 16293 77725 ... 26390 66282 21258 000 000	AM	(AB)
E07	5449	18-1	2130	Thu	744 744 744 1 205 58 205 58 54028 16293 77725 ... 26390 66282 21258 000 000	AM	(AB)
E07	4483	18-1	2150	Thu	744 744 744 1 205 58 205 58 54028 16293 77725 ... 26390 66282 21258 000 000	AM	(AB)
E07	13523	19-1	1100	Fri	516 516 516 1 1335 85 1335 85 83256 94586 29698 ... 97164 00963 52661 16584 000 000	USB	(AB/MPJ)
E07	12123	19-1	1120	Fri	516 516 516 1 1335 85 1335 85 83256 94586 29698 ... 97164 00963 52661 16584 000 000	USB	(AB/MPJ)
E07	10623	19-1	1140	Fri	516 516 516 1 1335 85 1335 85 83256 94586 29698 ... 97164 00963 52661 16584 000 000	USB	(AB/MPJ)
E07	8123	20-1	0700	Sat	134 134 134 000	USB	(AB)
E07	9323	20-1	0720	Sat	134 134 134 000	USB	(AB)
E07	8123	21-1	0700	Sun	134 134 134 000	USB	(AB)
E07	9323	21-1	0720	Sun	134 134 134 000	USB	(AB)
E07	8194	21-1	1800	Sun	172 172 172 1 845 83 845 83 96173 05715 15902 ... 79945 44479 12321 000 000	USB	(AB)
E07	6794	21-1	1820	Sun	172 172 172 1 845 83 845 83 96173 05715 15902 ... 79945 44479 12321 000 000	USB	(AB)
E07	5294	21-1	1840	Sun	172 172 172 1 845 83 845 83 96173 05715 15902 ... 79945 44479 12321 000 000	USB	(AB/MPJ)
E07	6776	22-1	2000	Mon	770 770 770 000	USB	(AB/MPJ)
E07	5767	22-1	2020	Mon	770 770 770 000	USB	(AB)
E07	13523	23-1	1100	Tue	516 516 516 000	USB	(AB/MPJ)
E07	12123	23-1	1120	Tue	516 516 516 000	USB	(AB/MPJ)
E07	8194	24-1	1800	Wed	172 172 172 1 845 83 845 83 96173 05715 15902 ... 79945 44479 12321 000 000	USB	(AB-GRC)
E07	6794	24-1	1820	Wed	172 172 172 1 845 83 845 83 96173 05715 15902 ... 79945 44479 12321 000 000	USB	(AB-GRC)
E07	5294	24-1	1840	Wed	172 172 172 1 845 83 845 83 96173 05715 15902 ... 79945 44479 12321 000 000	USB	(AB-GRC/MPJ)
E07	6776	24-1	2000	Wed	770 770 770 000	USB	(AB/MPJ)
E07	5767	24-1	2020	Wed	770 770 770 000	USB	(AB)
E07	6777	25-1	2110	Thu	744 744 744 000	AM	(AB)
E07	5449	25-1	2130	Thu	744 744 744 000	AM	(AB)
E07	13523	26-1	1100	Fri	516 516 516 000	USB	(AB/MPJ)
E07	12123	26-1	1120	Fri	516 516 516 000	USB	(AB/MPJ)
E07	8123	27-1	0700	Sat	134 134 134 000	USB	(AB)
E07	9323	27-1	0720	Sat	134 134 134 000	USB	(AB)
E07	8123	28-1	0700	Sun	134 134 134 000	USB	(AB)
E07	9323	28-1	0720	Sun	134 134 134 000	USB	(AB)
E07	8194	28-1	1800	Sun	172 1 731 106 17429 14428 98009 ... 29624 64977 23437 000 000	USB	(MPJ)
E07	6794	28-1	1820	Sun	172 1 731 106 17429 14428 98009 ... 29624 64977 23437 000 000	USB	(MPJ)
E07	5294	28-1	1840	Sun	172 1 731 106 17429 14428 98009 ... 29624 64977 23437 000 000	USB	(AB/MPJ)
E07	6776	29-1	2000	Mon	770 770 770 000	USB	(AB/MPJ)
E07	5767	29-1	2020	Mon	770 770 770 000	USB	(AB)
E07	13523	30-1	1100	Tue	516 516 516 000	USB	(AB/MPJ)
E07	12123	30-1	1120	Tue	516 516 516 000	USB	(AB/MPJ)
E07	8194	31-1	1800	Wed	172 172 172 1 731 106 731 106 17429 14428 98009 ... 29624 64977 23437 000 000	USB	(AB-GRC)
E07	6794	31-1	1820	Wed	172 172 172 1 731 106 731 106 17429 14428 98009 ... 29624 64977 23437 000 000	USB	(AB-GRC/MPJ)
E07	5294	31-1	1840	Wed	172 172 172 1 731 106 731 106 17429 14428 98009 ... 29624 64977 23437 000 000	USB	(AB-GRC/MPJ)
E07	6776	31-1	2000	Wed	770 770 770 000	USB	(AB/MPJ)
E07	5767	31-1	2020	Wed	770 770 770 000	USB	(AB)
E07a	5877	3-1	2100	Wed	825 825 825 000	USB	(AB/HFD)

E07a	5277	3-1	2120	Wed	825 825 825 000	USB	(AB/HFD)
E07a	5111	4-1	0530	Thu	189 189 189 000	USB	(AB)
E07a	5811	4-1	0550	Thu	189 189 189 000	USB	(AB)
E07a	7632	5-1	1610	Fri	688 688 688 000	USB	(AB/MPJ/HFD)
E07a	6832	5-1	1630	Fri	688 688 688 000	USB	(AB/MPJ/HFD)
E07a	11123	6-1	0900	Sat	114 114 114 000	USB	(AB/HFD)
E07a	12123	6-1	0920	Sat	114 114 114 000	USB	(AB/HFD)
E07a	5877	10-1	2100	Wed	825 825 825 000	USB	(AB)
E07a	5277	10-1	2120	Wed	825 825 825 000	USB	(AB/Sha)
E07a	5111	11-1	0530	Thu	189 189 189 000	USB	(AB/HFD)
E07a	5811	11-1	0550	Thu	189 189 189 000	USB	(AB/HFD)
E07a	7632	12-1	1610	Fri	688 688 688 000	USB	(AB/MPJ)
E07a	6832	12-1	1630	Fri	688 688 688 000	USB	(AB/MPJ)
E07a	11123	13-1	0900	Sat	114 114 114 000	USB	(AB)
E07a	12123	13-1	0920	Sat	114 114 114 000	USB	(AB)
E07a	5877	17-1	2100	Wed	825 825 825 1 37066 2010 63 2010 63 41217 45508 57631 ... 36665 35355 81468 000 000	USB	(AB)
E07a	5277	17-1	2120	Wed	825 825 825 1 37066 2010 63 2010 63 41217 45508 57631 ... 36665 35355 81468 000 000	USB	(AB)
E07a	4577	17-1	2140	Wed	825 825 825 1 37066 2010 63 2010 63 41217 45508 57631 ... 36665 35355 81468 000 000	USB	(AB)
E07a	5111	18-1	0530	Thu	189 189 189 1 1 37066 2010 63 2010 63 41217 45508 57631 ... 36665 35355 81468 000 000	USB	(AB)
E07a	5811	18-1	0550	Thu	189 189 189 1 1 37066 2010 63 2010 63 41217 45508 57631 ... 36665 35355 81468 000 000	USB	(AB)
E07a	6911	18-1	0610	Thu	189 189 189 1 1 37066 2010 63 2010 63 41217 45508 57631 ... 36665 35355 81468 000 000	USB	(AB)
E07a	7632	19-1	1610	Fri	688 688 688 000	USB	(AB/MPJ)
E07a	6832	19-1	1630	Fri	688 688 688 000	USB	(AB/MPJ)
E07a	11123	20-1	0900	Sat	114 114 114 000	USB	(AB)
E07a	12123	20-1	0920	Sat	114 114 114 000	USB	(AB)
E07a	5877	24-1	2100	Wed	825 825 825 1 37066 2010 63 2010 63 41217 45508 57631 ... 36665 35355 81468 000 000	USB	(AB)
E07a	5277	24-1	2120	Wed	825 825 825 1 37066 2010 63 2010 63 41217 45508 57631 ... 36665 35355 81468 000 000	USB	(AB)
E07a	4577	24-1	2140	Wed	825 825 825 1 37066 2010 63 2010 63 41217 45508 57631 ... 36665 35355 81468 000 000	USB	(AB)
E07a	5111	25-1	0530	Thu	189 189 189 1 1 37066 2010 63 2010 63 41217 45508 57631 ... 36665 35355 81468 000 000	USB	(AB)
E07a	5811	25-1	0550	Thu	189 189 189 1 1 37066 2010 63 2010 63 41217 45508 57631 ... 36665 35355 81468 000 000	USB	(AB)
E07a	6911	25-1	0610	Thu	189 189 189 1 1 37066 2010 63 2010 63 41217 45508 57631 ... 36665 35355 81468 000 000	USB	(AB)
E07a	7632	26-1	1610	Fri	688 688 688 000	USB	(AB)
E07a	6832	26-1	1630	Fri	688 688 688 000	USB	(AB/GHn/MPJ)
E07a	11123	27-1	0900	Sat	114 114 114 000	USB	(AB)
E07a	12123	27-1	0920	Sat	114 114 114 000	USB	(AB)
E07a	5877	31-1	2100	Wed	825 825 825 000	USB	(AB/RL)
E07a	5277	31-1	2120	Wed	825 825 825 000	USB	(AB/RL)
E11	10213	1-1	0745	Mon	261/00	USB	(AB)
E11	7984	1-1	0820	Mon	434/00	USB	(AB)
E11	20167	1-1	1225	Mon	525/00	USB	(AB-UKR)
E11	6849	1-1	1900	Mon	644/00	USB	(AB)
E11	9130	2-1	0710	Tue	The usual test tone but no transmission followed	USB	(AB)
E11	12202	2-1	0820	Tue	130/00	USB	(AB)
E11	11104	2-1	0845	Tue	156/00	USB	(AB)
E11	8800	2-1	1000	Tue	308/00	USB	(AB)
E11	12153	2-1	1045	Tue	570/00	USB	(AB/MPJ)
E11	7317	2-1	1205	Tue	463/00	USB	(AB/MPJ)
E11	4505	2-1	1605	Tue	237/00	USB	(AB/GHn/MPJ)
E11	11493	2-1	1645	Tue	330/00	USB	(AB/MPJ)
E11	12202	3-1	0820	Wed	136/00	USB	(AB)
E11	6807	3-1	1205	Wed	469/00 (should be on 7317 kHz)	USB	(Danix)
E11	10448	3-1	1625	Wed	978/00	USB	(AB/MPJ)
E11	8545	3-1	1730	Wed	400/00	USB	(AB/MPJ)
E11	5779	4-1	0315	Thu	252/00	USB	(AB)
E11	7984	4-1	0820	Thu	438/00	USB	(AB)

E11	11104	4-1	0845	Thu	151/00	USB	(AB)
E11	8680	4-1	1300	Thu	580/00	USB	(AB)
E11	5409	4-1	1530	Thu	266/00	USB	(AB/MPJ)
E11	11493	4-1	1645	Thu	338/00	USB	(AB/MPJ)
E11	5779	4-1	1730	Thu	411/00	USB	(AB/MPJ)
E11	6849	4-1	1900	Thu	641/00	USB	(AB/MPJ)
E11	17378	5-1	0745	Fri	342/00	USB	(AB)
E11	10487	5-1	1910	Fri	614/00	USB	(AB/MPJ)
E11	7377	6-1	0805	Sat	319/00	USB	(AnEur)
E11	8680	6-1	1300	Sat	588/00	USB	(AB/MPJ)
E11	8545	6-1	1730	Sat	404/00	USB	(AB/MPJ)
E11	7377	7-1	0805	Sun	312/00	USB	(AB)
E11	4505	7-1	1605	Sun	236/00	USB	(AB/MPJ)
E11	10448	7-1	1625	Sun	???/00 unreadable	USB	(AB)
E11	11107	7-1	2005	Sun	367/00 ??? barely audible	USB	(MPJ-AUT)
E11	9200	8-1	0600	Mon	189/00	USB	(AB)
E11	11450	8-1	0640	Mon	941/00	USB	(AB)
E11	10213	8-1	0745	Mon	264/00	USB	(AB)
E11	7984	8-1	0820	Mon	434/00	USB	(AB)
E11	9446	8-1	0900	Mon	530/00	USB	(AB)
E11	20167	8-1	1225	Mon	525/00	USB	(AB-G/MPJ)
E11	6849	8-1	1900	Mon	640/00	USB	(AB/MPJ)
E11	7840	9-1	0645	Tue	518/00	USB	(AB)
E11	11104	9-1	0845	Tue	151/00	USB	(AnEur)
E11	8800	9-1	1000	Tue	309/00	USB	(AB)
E11	12153	9-1	1045	Tue	577/00	USB	(AB)
E11	7317	9-1	1205	Tue	464/00	USB	(MPJ)
E11	14666	9-1	1345	Tue	918/00	USB	(AB/MPJ)
E11	4505	9-1	1605	Tue	238/00	USB	(AB/GHn/MPJ)
E11	11493	9-1	1645	Tue	330/00	USB	(AB/MPJ)
E11	12067	9-1	1925	Tue	551/00	USB	(AB-GRC/MPJ)
E11	11450	10-1	0640	Wed	941/00	USB	(AB)
E11	9446	10-1	0900	Wed	533/00	USB	(AB)
E11	8180	10-1	0930	Wed	276/00	USB	(AB)
E11	7317	10-1	1205	Wed	464/00	USB	(AB/MPJ)
E11	9443	10-1	1705	Wed	392/00	USB	(AB-G/MPJ)
E11	7840	11-1	0645	Thu	519/00	USB	(AB)
E11	7984	11-1	0820	Thu	432/00	USB	(AB)
E11	11104	11-1	0845	Thu	155/00	USB	(AB)
E11	8180	11-1	0930	Thu	276/00	USB	(AB)
E11	5409	11-1	1530	Thu	260/00	USB	(AB/MPJ)
E11	11493	11-1	1645	Thu	335/00	USB	(AB)
E11	6849	11-1	1900	Thu	648/00	USB	(AB/MPJ)
E11	12067	11-1	1925	Thu	551/00	USB	(AB-MPJ)
E11	17378	12-1	0745	Fri	343/00	USB	(AnEur)
E11	8800	12-1	1000	Fri	300/00	USB	(AB)
E11	4505	13-1	0710	Sat	496/00	USB	(AB)
E11	7377	13-1	0805	Sat	312/00	USB	(AB)
E11	14666	13-1	1345	Sat	911/00	USB	(MPJ)
E11	9443	13-1	1705	Sat	390/00	USB	(AB/BW3-POL/MPJ)
E11	4505	14-1	0710	Sun	496/00	USB	(AB)
E11	7377	14-1	0805	Sun	312/00	USB	(AB)
E11	4505	14-1	1605	Sun	236/00	USB	(AB/MPJ)
E11	4909	15-1	0450	Mon	415/00	USB	(AB/BW3)
E11	9200	15-1	0600	Mon	181/00	USB	(AB)
E11	11450	15-1	0640	Mon	948/00	USB	(AB)
E11	7984	15-1	0820	Mon	432/00	USB	(AB)
E11	9446	15-1	0900	Mon	537/00	USB	(AB)
E11	20167	15-1	1225	Mon	520/00	USB	(AB-ISL)
E11	7840	16-1	0645	Tue	514/00	USB	(AB)
E11	9130	16-1	0715	Tue	634/00	USB	(AB)
E11	12202	16-1	0820	Tue	136/00	USB	(AnEur)
E11	12153	16-1	1045	Tue	576/00	USB	(AB)
E11	7317	16-1	1205	Tue	461/00	USB	(AB/MPJ)
E11	14666	16-1	1345	Tue	910/00	USB	(AB/MPJ)
E11	4505	16-1	1605	Tue	238/00	USB	(AB/GHn/MPJ)
E11	11493	16-1	1645	Tue	334/00	USB	(AB/MPJ)

E11	12067	16-1	1925	Tue	557/00	USB	(AB/MPJ)
E11	11450	17-1	0640	Wed	946/00	USB	(AB)
E11	12202	17-1	0820	Wed	131/00	USB	(AnEur)
E11	9446	17-1	0900	Wed	535/00	USB	(AB)
E11	8180	17-1	0930	Wed	277/00	USB	(AB)
E11	7317	17-1	1205	Wed	465/00	USB	(AB/MPJ)
E11	10448	17-1	1625	Wed	977/00	USB	(MPJ)
E11	9443	17-1	1705	Wed	391/00	USB	(AB/MPJ)
E11	8545	17-1	1730	Wed	408/00	USB	(AB/MPJ)
E11	7840	18-1	0645	Thu	517/00	USB	(AB-UKR)
E11	7984	18-1	0820	Thu	432/00	USB	(AB)
E11	8180	18-1	0930	Thu	275/00	USB	(AB)
E11	8680	18-1	1300	Thu	580/00	USB	(AB/MPJ)
E11	11493	18-1	1645	Thu	330/00	USB	(AB)
E11	5779	18-1	1730	Thu	410/00	USB	(AB/MPJ)
E11	12067	18-1	1925	Thu	551/00	USB	(AB)
E11	9130	19-1	0715	Fri	639/00	USB	(AB)
E11	17378	19-1	0745	Fri	347/00	USB	(AB-GRC)
E11	20167	19-1	1225	Fri	528/00	USB	(AB-FIN/MPJ-AUT)
E11	16335	19-1	1650	Fri	925/00	USB	(AB-AUT)
E11	10487	19-1	1910	Fri	618/00	USB	(AB/MPJ)
E11	7377	20-1	0805	Sat	311/00	USB	(AB)
E11	8680	20-1	1300	Sat	586/00	USB	(AB)
E11	14666	20-1	1345	Sat	918/00	USB	(AB/MPJ)
E11	9443	20-1	1705	Sat	395/00	USB	(AB/MPJ)
E11	8545	20-1	1730	Sat	409/00	USB	(AB/MPJ)
E11	11107	20-1	2005	Sat	368/00	USB	(AB)
E11	4505	21-1	0710	Sun	491/00	USB	(AB)
E11	7377	21-1	0805	Sun	313/00	USB	(AB)
E11	4505	21-1	1605	Sun	231/00	USB	(AB/GHn/MPJ)
E11	10448	21-1	1625	Sun	976/00	USB	(AB/GHn/MPJ)
E11	13470	21-1	1650	Sun	920/00	USB	(AB)
E11	11107	21-1	2005	Sun	369/00	USB	(AB/MPJ)
E11	4909	22-1	0450	Mon	410/00	USB	(AB)
E11	9200	22-1	0600	Mon	184/00	USB	(AB/HFD)
E11	11450	22-1	0640	Mon	941/00	USB	(AB)
E11	9446	22-1	0900	Mon	537/00	USB	(AB)
E11	6849	22-1	1900	Mon	644/00	USB	(AB/MPJ)
E11	7840	23-1	0645	Tue	518/00	USB	(AB/HFD)
E11	9130	23-1	0715	Tue	635/00	USB	(AB)
E11	12202	23-1	0820	Tue	132/00	USB	(AB)
E11	11104	23-1	0845	Tue	157/00	USB	(AB)
E11	8800	23-1	1000	Tue	302/00	USB	(AB)
E11	7317	23-1	1205	Tue	464/00	USB	(AB/MPJ)
E11	14666	23-1	1345	Tue	911/00	USB	(MPJ-AUT)
E11	11450	24-1	0640	Wed	946/00	USB	(AB)
E11	9446	24-1	0900	Wed	532/00	USB	(AB)
E11	8180	24-1	0930	Wed	275/00	USB	(AB)
E11	7317	24-1	1205	Wed	463/00	USB	(AB/MPJ)
E11	10448	24-1	1625	Wed	978/00	USB	(AB/MPJ)
E11	8545	24-1	1730	Wed	409/00	USB	(AB/MPJ)
E11	5779	25-1	0315	Thu	258/00	USB	(AB)
E11	7840	25-1	0645	Thu	515/00	USB	(AB)
E11	11104	25-1	0845	Thu	152/00	USB	(AB)
E11	8180	25-1	0930	Thu	270/00	USB	(AB)
E11	8680	25-1	1300	Thu	589/00	USB	(MPJ)
E11	5409	25-1	1530	Thu	266/00	USB	(AB/GHn/MPJ)
E11	5779	25-1	1730	Thu	410/00	USB	(AB/MPJ)
E11	6849	25-1	1900	Thu	640/00	USB	(AB/MPJ)
E11	9200	26-1	0600	Fri	189/00	USB	(AB)
E11	9130	26-1	0715	Fri	633/00	USB	(AB)
E11	8800	26-1	1000	Fri	309/00	USB	(AB)
E11	16335	26-1	1650	Fri	929/00	USB	(AB/MPJ)
E11	10487	26-1	1910	Fri	Too weak to copy	USB	(MPJ)
E11	4505	27-1	0710	Sat	497/00	USB	(AB)
E11	8680	27-1	1300	Sat	587/00	USB	(AB/MPJ)
E11	14666	27-1	1345	Sat	917/00	USB	(AB/MPJ)

E11	8545	27-1	1730	Sat	409/00	USB	(MPJ)
E11	4505	28-1	0710	Sun	495/00	USB	(AB)
E11	10448	28-1	1625	Sun	976/00	USB	(MPJ)
E11	10487	28-1	1910	Sun	614/00	USB	(MPJ-FIN)
E11	11107	28-1	2005	Sun	367/00	USB	(MPJ)
E11	4909	29-1	0450	Mon	416/00	USB	(AB)
E11	9200	29-1	0600	Mon	189/00	USB	(AB)
E11	11450	29-1	0640	Mon	945/00	USB	(AB)
E11	10213	29-1	0745	Mon	264/00	USB	(AB)
E11	7984	29-1	0820	Mon	435/00	USB	(AB)
E11	9446	29-1	0900	Mon	533/00	USB	(AB)
E11	20167	29-1	1225	Mon	522/00	USB	(AB-AUT/MPJ)
E11	6849	29-1	1900	Mon	643/00	USB	(AB/MPJ)
E11	7840	30-1	0645	Tue	514/00	USB	(AB)
E11	9130	30-1	0715	Tue	637/00	USB	(AB)
E11	12202	30-1	0820	Tue	136/00	USB	(AB)
E11	11104	30-1	0845	Tue	157/00	USB	(AB)
E11	8800	30-1	1000	Tue	309/00	USB	(AB)
E11	14666	30-1	1345	Tue	918/00	USB	(AB)
E11	4505	30-1	1605	Tue	238/00	USB	(AB/GHn/MPJ)
E11	11493	30-1	1645	Tue	335/00	USB	(AB/MPJ)
E11	12067	30-1	1925	Tue	557/00	USB	(AB/MPJ)
E11	11450	31-1	0640	Wed	941/00	USB	(AB)
E11	17378	31-1	0745	Wed	346/00	USB	(AB-AUT)
E11	12202	31-1	0820	Wed	136/00	USB	(AB)
E11	9446	31-1	0900	Wed	534/00	USB	(AB)
E11	8180	31-1	0930	Wed	271/00	USB	(AB)
E11	10448	31-1	1625	Wed	974/00	USB	(GHn/MPJ)
E11	8545	31-1	1730	Wed	402/00	USB	(MPJ)
E11a	9200	1-1	0600	Mon	184/25 Attention 12307 02710 59006 ... 18765 24377 66603 Attention, rpt msg, out	USB	(AB)
E11a	11450	1-1	0640	Mon	949/36 Attention 14072 08648 05856 ... 45984 49292 43937 Attention, rpt msg, out	USB	(AB-UKR)
E11a	9446	1-1	0900	Mon	533/32 Attention 66759 21286 33606 ... 46524 38823 13225 Attention, rpt msg, out	USB	(AB)
E11a	7840	2-1	0645	Tue	515/35 Attention 56787 84898 31506 ... 13248 97627 23667 Attention, rpt msg, out	USB	(AB)
E11a	14666	2-1	1345	Tue	919/33 Attention 51989 58407 45589 ... 18657 96457 00678	USB	(MPJ)
E11a	12067	2-1	1925	Tue	550/32 Attention ...	USB	(AB/MPJ)
E11a	11450	3-1	0640	Wed	949/36 Attention 14072 08648 05856 ... 45984 49292 43937 Attention, rpt msg, out	USB	(AB)
E11a	9446	3-1	0900	Wed	533/32 Attention 66759 21286 33606 ... 46524 38823 13225 Attention, rpt msg, out	USB	(AB)
E11a	8180	3-1	0930	Wed	279/31 Attention 28094 04187 37874 ... 44815 58002 26426 Attention, rpt msg, out	USB	(AB)
E11a	8180	4-1	0930	Thu	279/31 Attention 28094 04187 37874 ... 44815 58002 26426 Attention, rpt msg, out	USB	(AB)
E11a	9200	5-1	0600	Fri	184/25 Attention 12307 02710 59006 ... 18765 24377 66603 Attention, rpt msg, out	USB	(AB)
E11a	4505	6-1	0710	Sat	490/32 Attention 28393 72934 39933 ... 64535 61430 80477 Attention, rpt msg, out	USB	(AB)
E11a	14666	6-1	1345	Sat	919/33 Attention 51989 58407 45589 ... 18657 96457 00678 +	USB	(MPJ)
E11a	4505	7-1	0710	Sun	490/32 Attention 28393 72934 39933 ... 64535 61430 80477 Attention, rpt msg, out	USB	(AB)
E11a	4909	8-1	0450	Mon	414/31 Attention ...	USB	(AB)
E11a	9130	9-1	0715	Tue	631/37 Attention 80269 93094 06799 ... 18962 99891 12740 Attention, rpt msg, out	USB	(AB)
E11a	12202	9-1	0820	Tue	134/32 Attention 87892 16600 67845 ... 79784 15231 64165 Attention, rpt msg, out	USB	(AB)
E11a	12202	10-1	0820	Wed	134/32 Attention 87892 16600 67845 ... 79784 15231 64165 Attention, rpt msg, out	USB	(AB)
E11a	10448	10-1	1625	Wed	978/33 Attention 78622 21794 22298 ... 22214 83611 77769 Attention, rpt msg, out	USB	(AB/BW3-POL/MPJ)
E11a	8545	10-1	1730	Wed	406/39 Attention 06430 92288 48440 ... 03620 69835 71914 Attention, rpt msg, out	USB	(AB-G/MPJ)
E11a	8680	11-1	1300	Thu	581/40 Attention 51667 35619 50138 ... 17359 85809 28437	USB	(AB/MPJ)



E11a	5779	11-1	1730	Thu	Attention, rpt msg, out 414/31 Attention 95819 77411 14924 ... 87550 85235 47579	USB	(AB/MPJ)
E11a	9200	12-1	0600	Fri	Attention, rpt msg, out 181/00	USB	(AB)
E11a	9130	12-1	0715	Fri	631/37 Attention 80269 93094 06799 ... 18962 99891 12740	USB	(AB)
E11a	16335	12-1	1650	Fri	Attention, rpt msg, out 929/36 Attention 88110 18019 28664 ... 53518 49702 37530	USB	(AB-HNG/MPJ-AUT)
E11a	10487	12-1	1910	Fri	Attention, rpt msg, out 618/31 Attention 71700 67187 09854 ... 11370 21726 66041	USB	(AB/MPJ-HOL)
E11a	8680	13-1	1300	Sat	Attention, rpt msg, out 581/40 Attention 51667 35619 50138 ... 17359 85809 28437	USB	(MPJ)
E11a	8545	13-1	1730	Sat	Attention, rpt msg, out 406/39 Attention 06430 92288 48440 ... 03620 69835 71914	USB	(AB/MPJ)
E11a	10448	14-1	1625	Sun	Attention, rpt msg, out 978/33 Attention 78622 21794 22298 ... 22214 83611 77769	USB	(AB)
E11a	10487	14-1	1910	Sun	Attention, rpt msg, out 618/31 Attention 71700 67187 09854 ... 11370 21726 66041	USB	(AB/MPJ)
E11a	10213	15-1	0745	Mon	Attention, rpt msg, out 262/38 Attention 42540 09642 14676 ... 54093 72598 21654	USB	(AB)
E11a	6849	15-1	1900	Mon	Attention, rpt msg, out 643/33 Attention 58835 56258 47588 ... 80492 25426 25411	USB	(AB/MPJ)
E11a	11104	16-1	0845	Tue	Attention, rpt msg, out 150/20 Attention 61359 28015 95323 ... 76163 56311 87147	USB	(AB)
E11a	8800	16-1	1000	Tue	Attention, rpt msg, out 308/30 Attention 19196 01210 84199 ... 03563 59296 62691	USB	(AB)
E11a	11104	18-1	0845	Thu	Attention, rpt msg, out 150/20 Attention 61359 28015 95323 ... 76163 56311 87147	USB	(AB-AUT)
E11a	5409	18-1	1530	Thu	Attention, rpt msg, out 262/38 Attention 42540 09642 14676 ... 54093 72598 21654	USB	(AB/GHn/MPJ)
E11a	6849	18-1	1900	Thu	Attention, rpt msg, out 643/33 Attention 58835 56258 47588 ... 80492 25426 25411	USB	(AB/MPJ)
E11a	8800	19-1	1000	Fri	Attention, rpt msg, out 308/30 Attention 19196 01210 84199 ... 03563 59296 62691	USB	(AB)
E11a	7984	22-1	0820	Mon	Attention, rpt msg, out 432/35 Attention 77693 80424 00416 ... 21758 21460 99315	USB	(AB)
E11a	4505	23-1	1605	Tue	Attention, rpt msg,out 233/33 Attention 90520 12339 34483 ... 75618 50968 17608	USB	(AB/MPJ)
E11a	11493	23-1	1645	Tue	Attention, rpt msg, out 332/36 Attention 07597 31601 92449 ... 73649 09020 89629	USB	(AB/MPJ)
E11a	17378	24-1	0745	Wed	Attention, rpt msg, out 340/37 Attention 12504 85794 54485 ... 01562 09161 72146	USB	(AB-AUT)
E11a	9443	24-1	1705	Wed	Attention, rpt msg, out 399/33 Attention 44528 56382 23483 ... 36251 27416 68167	USB	(AB/GHn/MPJ)
E11a	7984	25-1	0820	Thu	Attention, rpt msg, out 432/35 Attention 77693 80424 00416 ... 21758 21460 99315	USB	(AB)
E11a	17378	26-1	0745	Fri	Attention, rpt msg, out 340/37 Attention 12504 85794 54485 ... 01562 09161 72146	USB	(AB-AUT)
E11a	7377	27-1	0805	Sat	Attention, rpt msg, out 313/39 Attention 22623 63864 07422 ... 54693 47129 25590	USB	(AB)
E11a	9443	27-1	1705	Sat	Attention, rpt msg, out 399/33 Attention 44528 56382 23483 ... 36251 27416 68167	USB	(AB/MPJ)
E11a	7377	28-1	0805	Sun	Attention, rpt msg, out 313/39 Attention 22623 63864 07422 ... 54693 47129 25590	USB	(AB)
E11a	4505	28-1	1605	Sun	Attention, rpt msg,out 233/33 Attention 90520 12339 34483 ... 75618 50968 17608	USB	(AB/MPJ)
E11a	7317	30-1	1205	Tue	Attention, rpt msg, out 465/33 Attention 54154 27691 51563 ... 23989 63094 27146	USB	(AB/MPJ)
E11a	7317	31-1	1205	Wed	Attention, rpt msg, out 465/33 Attention 54154 27691 51563 ... 23989 63094 27146	USB	(AB/MPJ)
E17z	11170	4-1	0800	Thu	674 892 5 36330 31471 33619 37137 37908 892 5 00000	USB	(AB)
E17z	9820	4-1	0810	Thu	674 892 5 36330 31471 33619 37137 37908 892 5 00000	USB	(AB)
E17z	11170	11-1	0800	Thu	674 892 5 36330 31471 33619 37137 37908 892 5 00000	USB	(AB)
E17z	9820	11-1	0810	Thu	674 892 5 36330 31471 33619 37137 37908 892 5 00000	USB	(AB)
E17z	11170	18-1	0800	Thu	674 259 8 46062 68672 97478 39685 30485 96632 52537 53317 259 8 00000	USB	(AB-G)
E17z	9820	18-1	0810	Thu	674 259 8 46062 68672 97478 39685 30485 96632 52537	USB	(AB)

					53317 259 8 00000		
<b>E17z</b>	11170	25-1	0800	Thu	674 259 8 46062 68672 97478 39685 30485 96632 52537 53317 259 8 00000	USB	(AB)
<b>E17z</b>	9820	25-1	0810	Thu	674 259 8 46062 68672 97478 39685 30485 96632 52537 53317 259 8 00000	USB	(AB)
<b>EGY</b>	6771.9	8-1	1945	Mon	MFA Cairo clg XBQV: Egyptian embassy Paris	SITOR 100/170	(AB)
<b>EGY</b>	14445.9	9-1	1328	Tue	Egyptian diplo i.p. Ends with KDQJLOKH 8102 2018100MM KDQJLOKH 8102 HUXDFFF+?	SITOR-A 100/170	(AB)
<b>EGY</b>	9046.7	29-1	2008	Mon	Egyptian diplo i.p. C3CB9 DFA04 B7123 51F0A OOTF7 23C ...	SITOR-A 100/170	(MPJ)
<b>F01</b>	7629	3-1	1940	Wed	Russian diplo/intel. Null message: )5761 00000+++++++162	FSK 200/500	(AB/MPJ/HFD)
<b>F01</b>	6783	3-1	1950	Wed	Russian diplo/intel. Null message: )5761 00000+++++++162	FSK 200/500	(AB/MPJ/HFD)
<b>F01</b>	4034	3-1	2000	Wed	Russian diplo/intel. Null message: )5761 00000+++++++162	FSK 200/500	(AB/MPJ/HFD)
<b>F01</b>	17411	12-1	2230	Fri	Russian diplo/intel. Header: 11177 00116 23657 11002 01779	FSK 200/500	(Danix-USA)
<b>F01</b>	15956	12-1	2240	Fri	Russian diplo/intel. Header: 11177 00116 23657 11002 01779	FSK 200/500	(Danix-USA)
<b>F01</b>	13452	15-1	0028	Mon	Russian diplo/intel. Header: 11177 00117 23357 11003 01899	FSK 200/500	(Danix)
<b>F01</b>	11106	15-1	0038	Mon	Russian diplo/intel. Header: 11177 00117 23357 11003 01899	FSK 200/500	(Danix)
<b>F01</b>	13452	15-1	0128	Mon	Russian diplo/intel. Header: 11177 00117 23357 11003 01899	FSK 200/500	(Danix)
<b>F01</b>	11106	15-1	0138	Mon	Russian diplo/intel. Header: 11177 00117 23357 11003 01899	FSK 200/500	(Danix)
<b>F01</b>	17411	19-1	2230	Fri	Russian diplo/intel. Header: 11177 00116 68319 19003 01239	FSK 200/500	(Danix-USA)
<b>F01</b>	15956	19-1	2240	Fri	Russian diplo/intel. Header: 11177 00116 68319 19003 01239	FSK 200/500	(Danix-USA)
<b>F01</b>	13452	22-1	0025	Mon	Russian diplo/intel. Header: 11177 00117 78531 18004 01359	FSK 200/500	(Danix-USA)
<b>F01</b>	11106	22-1	0035	Mon	Russian diplo/intel. Header: 11177 00117 78531 18004 01359	FSK 200/500	(Danix-USA)
<b>F01</b>	13452	22-1	0125	Mon	Russian diplo/intel. Header: 11177 00117 78531 18004 01359	FSK 200/500	(Danix-USA)
<b>F01</b>	11106	22-1	0135	Mon	Russian diplo/intel. Header: 11177 00117 78531 18004 01359	FSK 200/500	(Danix-USA)
<b>F03a</b>	7837	1-1	1030	Mon	Polish Intel.	FSK 100/200	(AB)
<b>F03a</b>	7837	1-1	1035	Mon	Polish Intel.	FSK 100/200	(AB)
<b>F03a</b>	10200	2-1	0835	Tue	Polish Intel.	FSK 100/200	(AB)
<b>F03a</b>	10200	2-1	0840	Tue	Polish Intel.	FSK 100/200	(AB)
<b>F03a</b>	8680	2-1	0945	Tue	Polish Intel.	FSK 100/200	(AB)
<b>F03a</b>	8680	2-1	0950	Tue	Polish Intel.	FSK 100/200	(AB)
<b>F03a</b>	6480	2-1	1800	Tue	Polish Intel.	FSK 100/200	(AB)
<b>F03a</b>	6480	2-1	1805	Tue	Polish Intel.	FSK 100/200	(AB)
<b>F03a</b>	5371	3-1	0920	Wed	Polish Intel.	FSK-100/200	(Benka)
<b>F03a</b>	7837	3-1	1030	Wed	Polish Intel.	FSK 100/200	(AB)
<b>F03a</b>	7837	3-1	1035	Wed	Polish Intel.	FSK 100/200	(AB)
<b>F03a</b>	10200	4-1	0835	Thu	Polish Intel.	FSK 100/200	(AB)
<b>F03a</b>	10200	4-1	0840	Thu	Polish Intel.	FSK 100/200	(AB)
<b>F03a</b>	6480	4-1	1800	Thu	Polish Intel.	FSK 100/200	(AB)
<b>F03a</b>	6480	4-1	1805	Thu	Polish Intel.	FSK 100/200	(AB)
<b>F03a</b>	6906	4-1	1830	Thu	Polish Intel.	FSK 100/200	(AB)
<b>F03a</b>	6906	4-1	1835	Thu	Polish Intel.	FSK 100/200	(AB)
<b>F03a</b>	8680	5-1	0945	Fri	Polish Intel.	FSK 100/200	(AB)
<b>F03a</b>	8680	5-1	0950	Fri	Polish Intel.	FSK 100/200	(AB)
<b>F03a</b>	5371	7-1	1944	Sun	Polish Intel.	FSK-100/200	(Benka)
<b>F03a</b>	7837	8-1	1030	Mon	Polish Intel.	FSK 100/200	(AB)
<b>F03a</b>	7837	8-1	1035	Mon	Polish Intel.	FSK 100/200	(AB)
<b>F03a</b>	6906	8-1	1830	Mon	Polish Intel.	FSK 100/200	(AB)
<b>F03a</b>	6906	8-1	1835	Mon	Polish Intel.	FSK 100/200	(AB)
<b>F03a</b>	10200	9-1	0835	Tue	Polish Intel.	FSK 100/200	(AB)
<b>F03a</b>	10200	9-1	0840	Tue	Polish Intel.	FSK 100/200	(AB)
<b>F03a</b>	8680	9-1	0945	Tue	Polish Intel.	FSK 100/200	(AB)



F03a	8680	9-1	0950	Tue	Polish Intel.	FSK 100/200	(AB)
F03a	6480	9-1	1800	Tue	Polish Intel.	FSK 100/200	(AB)
F03a	6480	9-1	1805	Tue	Polish Intel.	FSK 100/200	(AB)
F03a	7837	10-1	1030	Wed	Polish Intel.	FSK 100/200	(AB)
F03a	7837	10-1	1035	Wed	Polish Intel.	FSK 100/200	(AB)
F03a	10200	11-1	0835	Thu	Polish Intel.	FSK 100/200	(AB)
F03a	10200	11-1	0840	Thu	Polish Intel.	FSK 100/200	(AB)
F03a	6480	11-1	1800	Thu	Polish Intel.	FSK 100/200	(AB)
F03a	6480	11-1	1805	Thu	Polish Intel.	FSK 100/200	(AB)
F03a	6906	11-1	1830	Thu	Polish Intel.	FSK 100/200	(AB)
F03a	6906	11-1	1835	Thu	Polish Intel.	FSK 100/200	(AB)
F03a	8680	12-1	0945	Fri	Polish Intel.	FSK 100/200	(AB)
F03a	8680	12-1	0950	Fri	Polish Intel.	FSK 100/200	(AB)
F03a	7837	15-1	1030	Mon	Polish Intel.	FSK 100/200	(AB)
F03a	7837	15-1	1035	Mon	Polish Intel.	FSK 100/200	(AB)
F03a	6906	15-1	1830	Mon	Polish Intel.	FSK 100/200	(AB)
F03a	6906	15-1	1835	Mon	Polish Intel.	FSK 100/200	(AB)
F03a	10200	16-1	0835	Tue	Polish Intel.	FSK 100/200	(AB)
F03a	10200	16-1	0840	Tue	Polish Intel.	FSK 100/200	(AB)
F03a	8680	16-1	0945	Tue	Polish Intel.	FSK 100/200	(AB)
F03a	8680	16-1	0950	Tue	Polish Intel.	FSK 100/200	(AB)
F03a	6480	16-1	1800	Tue	Polish Intel.	FSK 100/200	(AB)
F03a	6480	16-1	1805	Tue	Polish Intel.	FSK 100/200	(AB)
F03a	7837	17-1	1030	Wed	Polish Intel.	FSK 100/200	(AB)
F03a	7837	17-1	1035	Wed	Polish Intel.	FSK 100/200	(AB)
F03a	10200	18-1	0835	Thu	Polish Intel.	FSK 100/200	(AB)
F03a	10200	18-1	0840	Thu	Polish Intel.	FSK 100/200	(AB)
F03a	6480	18-1	1800	Thu	Polish Intel.	FSK 100/200	(AB)
F03a	6480	18-1	1805	Thu	Polish Intel.	FSK 100/200	(AB)
F03a	6906	18-1	1830	Thu	Polish Intel.	FSK 100/200	(AB)
F03a	6906	18-1	1835	Thu	Polish Intel.	FSK 100/200	(AB)
F03a	8680	19-1	0945	Fri	Polish Intel.	FSK 100/200	(AB)
F03a	8680	19-1	0950	Fri	Polish Intel.	FSK 100/200	(AB)
F03a	7837	22-1	1030	Mon	Polish Intel.	FSK 100/200	(AB)
F03a	7837	22-1	1035	Mon	Polish Intel.	FSK 100/200	(AB)
F03a	6906	22-1	1830	Mon	Polish Intel.	FSK 100/200	(AB)
F03a	6906	22-1	1835	Mon	Polish Intel.	FSK 100/200	(AB)
F03a	10200	23-1	0835	Tue	Polish Intel.	FSK 100/200	(AB)
F03a	10200	23-1	0840	Tue	Polish Intel.	FSK 100/200	(AB)
F03a	8680	23-1	0945	Tue	Polish Intel.	FSK 100/200	(AB)
F03a	8680	23-1	0950	Tue	Polish Intel.	FSK 100/200	(AB)
F03a	6480	23-1	1800	Tue	Polish Intel.	FSK 100/200	(AB)
F03a	6480	23-1	1805	Tue	Polish Intel.	FSK 100/200	(AB)
F03a	7837	24-1	1030	Wed	Polish Intel.	FSK 100/200	(AB)
F03a	7837	24-1	1035	Wed	Polish Intel.	FSK 100/200	(AB)
F03a	10200	25-1	0835	Thu	Polish Intel.	FSK 100/200	(AB)
F03a	10200	25-1	0840	Thu	Polish Intel.	FSK 100/200	(AB)
F03a	5371	25-1	0915	Thu	Polish Intel.	FSK 100/200	(AB)
F03a	5371	25-1	0920	Thu	Polish Intel.	FSK 100/200	(AB)
F03a	6480	25-1	1800	Thu	Polish Intel.	FSK 100/200	(AB)
F03a	6480	25-1	1805	Thu	Polish Intel.	FSK 100/200	(AB)
F03a	6906	25-1	1830	Thu	Polish Intel.	FSK 100/200	(AB)
F03a	6906	25-1	1835	Thu	Polish Intel.	FSK 100/200	(AB)
F03a	8680	26-1	0945	Fri	Polish Intel.	FSK 100/200	(AB)
F03a	8680	26-1	0950	Fri	Polish Intel.	FSK 100/200	(AB)
F03a	7837	29-1	1030	Mon	Polish Intel.	FSK 100/200	(AB)
F03a	7837	29-1	1035	Mon	Polish Intel.	FSK 100/200	(AB)
F03a	6906	29-1	1830	Mon	Polish Intel.	FSK 100/200	(AB)
F03a	6906	29-1	1835	Mon	Polish Intel.	FSK 100/200	(AB)
F03a	10200	30-1	0835	Tue	Polish Intel.	FSK 100/200	(AB)
F03a	10200	30-1	0840	Tue	Polish Intel.	FSK 100/200	(AB)
F03a	8680	30-1	0945	Tue	Polish Intel.	FSK 100/200	(AB)
F03a	8680	30-1	0950	Tue	Polish Intel.	FSK 100/200	(AB)
F03a	6480	30-1	1800	Tue	Polish Intel.	FSK 100/200	(AB)
F03a	6480	30-1	1805	Tue	Polish Intel.	FSK 100/200	(AB)
F03a	5371	31-1	0915	Wed	Polish Intel.	FSK 100/200	(AB)
F03a	5371	31-1	0920	Wed	Polish Intel.	FSK 100/200	(AB)

F03a	7837	31-1	1030	Wed	Polish Intel.	FSK 100/200	(AB)
F03a	7837	31-1	1035	Wed	Polish Intel.	FSK 100/200	(AB)
F03b	9960	1-1	1000	Mon	Polish Intel.	FSK 200/400	(AB)
F03b	9960	1-1	1005	Mon	Polish Intel.	FSK 200/400	(AB)
F03b	9960	4-1	1000	Thu	Polish Intel.	FSK 200/400	(AB)
F03b	9960	4-1	1005	Thu	Polish Intel.	FSK 200/400	(AB)
F03b	12424	5-1	0843	Fri	Polish Intel.	FSK 200/400	(AB)
F03b	12424	5-1	0848	Fri	Polish Intel.	FSK 200/400	(AB)
F03b	9960	8-1	1000	Mon	Polish Intel.	FSK 200/400	(AB)
F03b	9960	8-1	1005	Mon	Polish Intel.	FSK 200/400	(AB)
F03b	12424	9-1	0808	Tue	Polish Intel.	FSK 200/400	(AB)
F03b	12424	9-1	0813	Tue	Polish Intel.	FSK 200/400	(AB)
F03b	9960	11-1	1000	Thu	Polish Intel.	FSK 200/400	(AB)
F03b	9960	11-1	1005	Thu	Polish Intel.	FSK 200/400	(AB)
F03b	12424	12-1	0843	Fri	Polish Intel.	FSK 200/400	(AB)
F03b	12424	12-1	0848	Fri	Polish Intel.	FSK 200/400	(AB)
F03b	9960	15-1	1000	Mon	Polish Intel.	FSK 200/400	(AB)
F03b	9960	15-1	1005	Mon	Polish Intel.	FSK 200/400	(AB)
F03b	12424	16-1	0808	Tue	Polish Intel.	FSK 200/400	(AB)
F03b	12424	16-1	0813	Tue	Polish Intel.	FSK 200/400	(AB)
F03b	9960	18-1	1000	Thu	Polish Intel.	FSK 200/400	(AB)
F03b	9960	18-1	1005	Thu	Polish Intel.	FSK 200/400	(AB)
F03b	12424	19-1	0843	Fri	Polish Intel.	FSK 200/400	(AB)
F03b	12424	19-1	0848	Fri	Polish Intel.	FSK 200/400	(AB)
F03b	9960	22-1	1000	Mon	Polish Intel.	FSK 200/400	(AB)
F03b	9960	22-1	1005	Mon	Polish Intel.	FSK 200/400	(AB)
F03b	12424	23-1	0808	Tue	Polish Intel.	FSK 200/400	(AB)
F03b	12424	23-1	0813	Tue	Polish Intel.	FSK 200/400	(AB)
F03b	9960	25-1	1000	Thu	Polish Intel.	FSK 200/400	(AB)
F03b	9960	25-1	1005	Thu	Polish Intel.	FSK 200/400	(AB)
F03b	12424	26-1	0843	Fri	Polish Intel.	FSK 200/400	(AB)
F03b	12424	26-1	0848	Fri	Polish Intel.	FSK 200/400	(AB)
F03b	9960	29-1	1000	Mon	Polish Intel.	FSK 200/400	(AB)
F03b	9960	29-1	1005	Mon	Polish Intel.	FSK 200/400	(AB)
F03b	12424	30-1	0808	Tue	Polish Intel.	FSK 200/400	(AB)
F03b	12424	30-1	0813	Tue	Polish Intel.	FSK 200/400	(AB)
F03c	8800	1-1	0940	Mon	Polish Intel.	FSK 400/960	(AB)
F03c	8800	1-1	0945	Mon	Polish Intel.	FSK 400/960	(AB)
F03c	8800	5-1	0940	Fri	Polish Intel.	FSK 400/960	(AB)
F03c	8800	5-1	0945	Fri	Polish Intel.	FSK 400/960	(AB)
F03c	8800	8-1	0940	Mon	Polish Intel.	FSK 400/960	(AB)
F03c	8800	8-1	0945	Mon	Polish Intel.	FSK 400/960	(AB)
F03c	8800	12-1	0940	Fri	Polish Intel.	FSK 400/960	(AB)
F03c	8800	12-1	0945	Fri	Polish Intel.	FSK 400/960	(AB)
F03c	8800	15-1	0940	Mon	Polish Intel.	FSK 400/960	(AB)
F03c	8800	15-1	0945	Mon	Polish Intel.	FSK 400/960	(AB)
F03c	8800	22-1	0940	Mon	Polish Intel.	FSK 400/960	(AB)
F03c	8800	22-1	0945	Mon	Polish Intel.	FSK 400/960	(AB)
F03c	8800	29-1	0940	Mon	Polish Intel.	FSK 400/960	(AB)
F03c	8800	29-1	0945	Mon	Polish Intel.	FSK 400/960	(AB)
F06	6926	1-1	0500	Mon	Russian diplo/intel. 11166 70059 20181 01019 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	5845	1-1	0510	Mon	Russian diplo/intel. 11166 70059 20181 01019 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	4816	1-1	0520	Mon	Russian diplo/intel. 11166 70059 20181 01019 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	10856	2-1	1500	Tue	Russian diplo/intel. 11166 00052 92785 02041 00049 00000 00000 00000 00000	FSK 200/1000	(AB-D/MPJ)
F06	8174	2-1	1510	Tue	Russian diplo/intel. 11166 00052 92785 02041 00049 00000 00000 00000 00000	FSK 200/1000	(AB-UKR/MPJ)
F06	6988	2-1	1520	Tue	Russian diplo/intel. 11166 00052 92785 02041 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	10383	2-1	1650	Tue	Russian diplo/intel. 11166 10053 13579 02001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	9046	2-1	1700	Tue	Russian diplo/intel. 11166 10053 13579 02001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	7313	2-1	1710	Tue	Russian diplo/intel. 11166 10053 13579 02001 00049 00000	FSK 200/1000	(AB/MPJ)

					00000 00000 00000			
F06	18334	3-1	0800	Wed	Russian diplo/intel. 11166 70048 25481 03056 00049 00000 00000 00000 00000	FSK 200/1000	(Danix)	
F06	16346	3-1	0810	Wed	Russian diplo/intel. 11166 70048 25481 03056 00049 00000 00000 00000 00000	FSK 200/1000	(AB)	
F06	14418	3-1	0820	Wed	Russian diplo/intel. 11166 70048 25481 03056 00049 00000 00000 00000 00000	FSK 200/1000	(AB)	
F06	12186	4-1	1330	Thu	Russian diplo/intel. 11166 80214 96574 04082 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)	
F06	10243	4-1	1340	Thu	Russian diplo/intel. 11166 80214 96574 04082 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)	
F06	8175	4-1	1350	Thu	Russian diplo/intel. 11166 80214 96574 04082 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)	
F06	16356	6-1	1100	Sat	Russian diplo/intel. 11166 50046 36987 06001 00049 00000 00000 00000 00000	FSK 200/1000	(Danix)	
F06	14359	6-1	1110	Sat	Russian diplo/intel. 11166 50046 36987 06001 00049 00000 00000 00000 00000	FSK 200/1000	(Danix)	
F06	12079	6-1	1120	Sat	Russian diplo/intel. 11166 50046 36987 06001 00049 00000 00000 00000 00000	FSK 200/1000	(Danix)	
F06	20564	6-1	1500	Sat	Russian diplo/intel. 11166 40133 36987 06001 00049 00000 00000 00000 00000	FSK 200/1000	(Danix)	
F06	18471	6-1	1510	Sat	Russian diplo/intel. 11166 40133 36987 06001 00049 00000 00000 00000 00000	FSK 200/1000	(Danix)	
F06	16308	6-1	1520	Sat	Russian diplo/intel. 11166 40133 36987 06001 00049 00000 00000 00000 00000	FSK 200/1000	(Danix/MPJ)	
F06	10378	7-1	1521	Sun	Russian diplo/intel. Test: 4646464646464646 4646464646464646	FSK 200/1000	(AB)	
F06	10378	7-1	1530	Sun	Russian diplo/intel. 11166 10053 91735 07001 00049 00000 00000 00000	FSK 200/1000	(AB/MPJ)	
F06	9169	7-1	1540	Sun	Russian diplo/intel. 11166 10053 91735 07001 00049 00000 00000 00000	FSK 200/1000	(AB/MPJ)	
F06	7419	7-1	1550	Sun	Russian diplo/intel. 11166 10053 91735 07001 00049 00000 00000 00000	FSK 200/1000	(AB/Benka/MPJ)	
F06	10856	9-1	1500	Tue	Russian diplo/intel. 11166 00052 87125 09018 00049 00000 00000 00000 00000	FSK 200/1000	(AB-GRC)	
F06	8174	9-1	1510	Tue	Russian diplo/intel. 11166 00052 87125 09018 00049 00000 00000 00000 00000	FSK 200/1000	(AB-GRC/MPJ)	
F06	6988	9-1	1520	Tue	Russian diplo/intel. 11166 00052 87125 09018 00049 00000 00000 00000 00000	FSK 200/1000	(AB-GRC/MPJ)	
F06	10383	9-1	1650	Tue	Russian diplo/intel. 11166 10053 35791 09001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)	
F06	9046	9-1	1700	Tue	Russian diplo/intel. 11166 10053 35791 09001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)	
F06	7313	9-1	1710	Tue	Russian diplo/intel. 11166 10053 35791 09001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)	
F06	20154	10-1	0600	Wed	Russian diplo/intel. Header: 11166 40122 36295 06055 03469	FSK 200/1000	(AB-CHN)	
F06	18304	10-1	0610	Wed	Russian diplo/intel. Header: 11166 40122 36295 06055 03469	FSK 200/1000	(AB-J)	
F06	16156	10-1	0620	Wed	Russian diplo/intel. Header: 11166 40122 36295 06055 03469	FSK 200/1000	(AB-NZL)	
F06	18334	10-1	0800	Wed	Russian diplo/intel. 11166 70048 25481 10082 00049 00000 00000 00000 00000	FSK 200/1000	(AB)	
F06	16346	10-1	0810	Wed	Russian diplo/intel. 11166 70048 25481 10082 00049 00000 00000 00000 00000	FSK 200/1000	(AB)	
F06	14418	10-1	0820	Wed	Russian diplo/intel. 11166 70048 25481 10082 00049 00000 00000 00000 00000	FSK 200/1000	(AB)	
F06	20735	10-1	0900	Wed	Russian diplo/intel. Header: 11166 00052 93142 26023 01969	FSK 200/1000	(AB-RUS)	
F06	18037	10-1	0910	Wed	Russian diplo/intel. Header: 11166 00052 93142 26023 01969	FSK 200/1000	(AB)	
F06	16250	10-1	0920	Wed	Russian diplo/intel. Header: 11166 00052 93142 26023 01969	FSK 200/1000	(AB)	
F06	19433	10-1	1015	Wed	Russian diplo/intel. 11166 10031 13579 10001 00049 00000 00000 00000	FSK 200/1000	(AB)	
F06	16048	10-1	1025	Wed	Russian diplo/intel. 11166 10031 13579 10001 00049 00000 00000 00000	FSK 200/1000	(AB)	

F06	14976	10-1	1035	Wed	Russian diplo/intel. 11166 10031 13579 10001 00049 00000 00000 00000	FSK 200/1000	(AB)
F06	20735	11-1	0900	Thu	Russian diplo/intel. Header: 11166 00052 93142 26023 01969	FSK 200/1000	(AB-RUS)
F06	18037	11-1	0910	Thu	Russian diplo/intel. Header: 11166 00052 93142 26023 01969	FSK 200/1000	(AB-RUS)
F06	16250	11-1	0920	Thu	Russian diplo/intel. Header: 11166 00052 93142 26023 01969	FSK 200/1000	(AB)
F06	12186	11-1	1330	Thu	Russian diplo/intel. 11166 80214 15863 11053 00049 00000 00000 00000 00000	FSK 200/1000	(AB-UKR/MPJ)
F06	10243	11-1	1340	Thu	Russian diplo/intel. 11166 80214 15863 11053 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	8175	11-1	1350	Thu	Russian diplo/intel. 11166 80214 15863 11053 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	13805	13-1	0900	Sat	Russian diplo/intel. Header: 11166 70147 35182 12073 00609	FSK 200/1000	(AB)
F06	11644	13-1	0910	Sat	Russian diplo/intel. Header: 11166 70147 35182 12073 00609	FSK 200/1000	(AB)
F06	9474	13-1	0920	Sat	Russian diplo/intel. Header: 11166 70147 35182 12073 00609	FSK 200/1000	(AB)
F06	20973	13-1	1000	Sat	Russian diplo/intel. Header: 11166 70004 19625 12003 00819	FSK 200/1000	(AB-RUS)
F06	18736	13-1	1010	Sat	Russian diplo/intel. Header: 11166 70004 19625 12003 00819	FSK 200/1000	(AB)
F06	16238	13-1	1020	Sat	Russian diplo/intel. Header: 11166 70004 19625 12003 00819	FSK 200/1000	(AB)
F06	16356	13-1	1100	Sat	Russian diplo/intel. Header: 11166 50046 12674 12021 02189	FSK 200/1000	(AB/MPJ)
F06	14359	13-1	1110	Sat	Russian diplo/intel. Header: 11166 50046 12674 12021 02189	FSK 200/1000	(AB/MPJ)
F06	12079	13-1	1120	Sat	Russian diplo/intel. Header: 11166 50046 12674 12021 02189	FSK 200/1000	(AB/MPJ)
F06	20564	13-1	1500	Sat	Russian diplo/intel. 11166 40133 17935 13037 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	18471	13-1	1510	Sat	Russian diplo/intel. 11166 40133 17935 13037 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	16308	13-1	1520	Sat	Russian diplo/intel. 11166 40133 17935 13037 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	13805	14-1	0900	Sun	Russian diplo/intel. Header: 11166 70147 35182 12073 00609	FSK 200/1000	(AB)
F06	11644	14-1	0910	Sun	Russian diplo/intel. Header: 11166 70147 35182 12073 00609	FSK 200/1000	(AB)
F06	9474	14-1	0920	Sun	Russian diplo/intel. Header: 11166 70147 35182 12073 00609	FSK 200/1000	(AB)
F06	20973	14-1	1000	Sun	Russian diplo/intel. Header: 11166 70004 19625 12003 00819	FSK 200/1000	(AB-RUS)
F06	18736	14-1	1010	Sun	Russian diplo/intel. Header: 11166 70004 19625 12003 00819	FSK 200/1000	(AB)
F06	16238	14-1	1020	Sun	Russian diplo/intel. Header: 11166 70004 19625 12003 00819	FSK 200/1000	(AB)
F06	16356	14-1	1100	Sun	Russian diplo/intel. Header: 11166 50046 12674 12021 02189	FSK 200/1000	(AB/MPJ)
F06	14359	14-1	1110	Sun	Russian diplo/intel. Header: 11166 50046 12674 12021 02189	FSK 200/1000	(AB/MPJ)
F06	12079	14-1	1120	Sun	Russian diplo/intel. Header: 11166 50046 12674 12021 02189	FSK 200/1000	(AB/MPJ)
F06	10378	14-1	1530	Sun	Russian diplo/intel. 11166 10053 13579 14001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	9169	14-1	1540	Sun	Russian diplo/intel. 11166 10053 13579 14001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	7419	14-1	1550	Sun	Russian diplo/intel. 11166 10053 13579 14001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	6926	15-1	0500	Mon	Russian diplo/intel. 11166 70059 13579 15001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix)
F06	5945	15-1	0510	Mon	Russian diplo/intel. 11166 70059 13579 15001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix)
F06	4816	15-1	0520	Mon	Russian diplo/intel. 11166 70059 13579 15001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix)

					00000 00000 00000			
F06	10856	16-1	1500	Tue	Russian diplo/intel. 11166 00052 87125 16056 00049 00000 00000 000	FSK 200/1000	(AB/Danix)	
F06	8174	16-1	1510	Tue	Russian diplo/intel. 11166 00052 87125 16056 00049 00000 00000 000	FSK 200/1000	(AB/Danix/MPJ)	
F06	6988	16-1	1520	Tue	Russian diplo/intel. 11166 00052 87125 16056 00049 00000 00000 000	FSK 200/1000	(AB/Danix/MPJ)	
F06	10383	16-1	1650	Tue	Russian diplo/intel. 11166 10053 18527 16067 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix/MPJ)	
F06	9046	16-1	1700	Tue	Russian diplo/intel. 11166 10053 18527 16067 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix/MPJ)	
F06	7313	16-1	1710	Tue	Russian diplo/intel. 11166 10053 18527 16067 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix/MPJ)	
F06	4612	16-1	1810	Tue	Russian diplo/intel. Header: 11100 00000 84125 15063 02149	FSK 200/1000	(Danix)	
F06	3359	16-1	1820	Tue	Russian diplo/intel. Header: 11100 00000 84125 15063 02149	FSK 200/1000	(Danix)	
F06	20154	17-1	0600	Wed	Russian diplo/intel. 11166 40122 12345 17017 00049 00000 00000 00000 00000	FSK 200/1000	(AB-NZL)	
F06	18304	17-1	0610	Wed	Russian diplo/intel. 11166 40122 12345 17017 00049 00000 00000 00000 00000	FSK 200/1000	(AB-NZL)	
F06	16156	17-1	0620	Wed	Russian diplo/intel. 11166 40122 12345 17017 00049 00000 00000 00000 00000	FSK 200/1000	(AB-J)	
F06	18334	17-1	0800	Wed	Russian diplo/intel. 11166 70048 00000 16014 01399	FSK 200/1000	(AB)	
F06	16346	17-1	0810	Wed	Russian diplo/intel. 11166 70048 00000 16014 01399	FSK 200/1000	(AB)	
F06	14418	17-1	0820	Wed	Russian diplo/intel. 11166 70048 00000 16014 01399	FSK 200/1000	(AB)	
F06	18334	18-1	0800	Thu	Russian diplo/intel. Header: 11166 70048 00000 16014 01399	FSK 200/1000	(AB-AUT)	
F06	16346	18-1	0810	Thu	Russian diplo/intel. Header: 11166 70048 00000 16014 01399	FSK 200/1000	(AB-AUT)	
F06	14418	18-1	0820	Thu	Russian diplo/intel. Header: 11166 70048 00000 16014 01399	FSK 200/1000	(AB-AUT)	
F06	12186	18-1	1330	Thu	Russian diplo/intel. 11166 80214 46723 18028 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)	
F06	10243	18-1	1340	Thu	Russian diplo/intel. 11166 80214 46723 18028 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)	
F06	8175	18-1	1350	Thu	Russian diplo/intel. 11166 80214 46723 18028 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)	
F06	16356	20-1	1100	Sat	Russian diplo/intel. Header: 11166 50046 98217 19022 00609	FSK 200/1000	(AB/Danix/MPJ)	
F06	14359	20-1	1110	Sat	Russian diplo/intel. Header: 11166 50046 98217 19022 00609	FSK 200/1000	(AB/Danix/MPJ)	
F06	12079	20-1	1120	Sat	Russian diplo/intel. Header: 11166 50046 98217 19022 00609	FSK 200/1000	(AB/Danix/MPJ)	
F06	20564	20-1	1450	Sat	Russian diplo/intel. Test: 464646464646464646464646 464646464646464646464646	FSK 200/1000	(AB-AUT)	
F06	20564	20-1	1500	Sat	Russian diplo/intel. 11166 40133 63751 20037 00049 00000 00000 00000 00000	FSK 200/1000	(AB-AUT/ Danix/MPJ-RUS)	
F06	18471	20-1	1510	Sat	Russian diplo/intel. 11166 40133 63751 20037 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix/MPJ-RUS)	
F06	16308	20-1	1520	Sat	Russian diplo/intel. 11166 40133 63751 20037 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Danix/MPJ-RUS)	
F06	16356	21-1	1100	Sun	Russian diplo/intel. Header: 11166 50046 98217 19022 00609	FSK 200/1000	(AB/MPJ)	
F06	14359	21-1	1110	Sun	Russian diplo/intel. Header: 11166 50046 98217 19022 00609	FSK 200/1000	(AB/MPJ)	
F06	12079	21-1	1120	Sun	Russian diplo/intel. Header: 11166 50046 98217 19022 00609	FSK 200/1000	(AB/MPJ)	
F06	10378	21-1	1530	Sun	Russian diplo/intel. Test: 21683539705420886726956421683539700000	FSK 200/1000	(AB)	
F06	10378	21-1	1530	Sun	Russian diplo/intel. 11166 10053 35791 21001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)	
F06	9169	21-1	1540	Sun	Russian diplo/intel. 11166 10053 35791 21001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)	
F06	7419	21-1	1550	Sun	Russian diplo/intel. 11166 10053 35791 21001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)	



<b>F06</b>	10856	23-1	1450	Tue	Russian diplo/intel. Test: 46464642464646464246 46464642464646464246	FSK 200/1000	(AB)
<b>F06</b>	10856	23-1	1500	Tue	Russian diplo/intel. 11166 00052 12987 23056 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
<b>F06</b>	8174	23-1	1510	Tue	Russian diplo/intel. 11166 00052 12987 23056 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
<b>F06</b>	6988	23-1	1520	Tue	Russian diplo/intel. 11166 00052 12987 23056 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
<b>F06</b>	10383	23-1	1650	Tue	Russian diplo/intel. 11166 10053 94821 23001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
<b>F06</b>	9046	23-1	1700	Tue	Russian diplo/intel. 11166 10053 94821 23001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
<b>F06</b>	7313	23-1	1710	Tue	Russian diplo/intel. 11166 10053 94821 23001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
<b>F06</b>	20154	24-1	0600	Wed	Russian diplo/intel. 2 messages. Headers: 11166 40122 64789 20056 03029 and 11166 40122 82546 20057 02349	FSK 200/1000	(AB-NZL)
<b>F06</b>	18304	24-1	0610	Wed	Russian diplo/intel. 2 messages. Headers: 11166 40122 64789 20056 03029 and 11166 40122 82546 20057 02349	FSK 200/1000	(AB-NZL)
<b>F06</b>	16156	24-1	0620	Wed	Russian diplo/intel. 2 messages. Headers: 11166 40122 64789 20056 03029 and 11166 40122 82546 20057 02349	FSK 200/1000	(AB-NZL)
<b>F06</b>	18334	24-1	0800	Wed	Russian diplo/intel. Header: 11166 70048 00000 16014 01399	FSK 200/1000	(AB)
<b>F06</b>	16346	24-1	0810	Wed	Russian diplo/intel. Header: 11166 70048 00000 16014 01399	FSK 200/1000	(AB)
<b>F06</b>	14418	24-1	0820	Wed	Russian diplo/intel. Header: 11166 70048 00000 16014 01399	FSK 200/1000	(AB)
<b>F06</b>	20735	24-1	0900	Wed	Russian diplo/intel. Header: 11166 00052 46871 23024 01849	FSK 200/1000	(AB-RUS)
<b>F06</b>	18037	24-1	0910	Wed	Russian diplo/intel. Header: 11166 00052 46871 23024 01849	FSK 200/1000	(AB-G)
<b>F06</b>	16250	24-1	0920	Wed	Russian diplo/intel. Header: 11166 00052 46871 23024 01849	FSK 200/1000	(AB-RUS)
<b>F06</b>	19433	24-1	1015	Wed	Russian diplo/intel. 11166 10031 24859 24026 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS)
<b>F06</b>	16048	24-1	1025	Wed	Russian diplo/intel. 11166 10031 24859 24026 00049 00000 00000 00000 00000	FSK 200/1000	(AB/RL)
<b>F06</b>	14976	24-1	1035	Wed	Russian diplo/intel. 11166 10031 24859 24026 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
<b>F06</b>	20154	25-1	0600	Thu	Russian diplo/intel. 2 messages. Headers: 11166 40122 64789 20056 03029 and 11166 40122 82546 20057 02349	FSK 200/1000	(AB-CHN)
<b>F06</b>	18304	25-1	0610	Thu	Russian diplo/intel. 2 messages. Headers: 11166 40122 64789 20056 03029 and 11166 40122 82546 20057 02349	FSK 200/1000	(AB-NZL)
<b>F06</b>	16156	25-1	0620	Thu	Russian diplo/intel. 2 messages. Headers: 11166 40122 64789 20056 03029 and 11166 40122 82546 20057 02349	FSK 200/1000	(AB-NZL)
<b>F06</b>	18334	25-1	0800	Thu	Russian diplo/intel. Header: 11166 70048 00000 16014 01399	FSK 200/1000	(AB)
<b>F06</b>	16346	25-1	0810	Thu	Russian diplo/intel. Header: 11166 70048 00000 16014 01399	FSK 200/1000	(AB)
<b>F06</b>	14418	25-1	0820	Thu	Russian diplo/intel. Header: 11166 70048 00000 16014 01399	FSK 200/1000	(AB)
<b>F06</b>	20735	25-1	0900	Thu	Russian diplo/intel. Header: 11166 00052 46871 23024 01849	FSK 200/1000	(AB-UKR)
<b>F06</b>	18037	25-1	0910	Thu	Russian diplo/intel. Header: 11166 00052 46871 23024 01849	FSK 200/1000	(AB/MPJ)
<b>F06</b>	16250	25-1	0920	Thu	Russian diplo/intel. Header: 11166 00052 46871 23024 01849	FSK 200/1000	(AB/MPJ)
<b>F06</b>	12186	25-1	1330	Thu	Russian diplo/intel. 11166 80214 32674 25037 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
<b>F06</b>	10243	25-1	1340	Thu	Russian diplo/intel. 11166 80214 32674 25037 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
<b>F06</b>	8175	25-1	1350	Thu	Russian diplo/intel. 11166 80214 32674 25037 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
<b>F06</b>	13805	27-1	0900	Sat	Russian diplo/intel. Header: 11166 70147 34591 26074 01009	FSK 200/1000	(AB)
<b>F06</b>	11644	27-1	0910	Sat	Russian diplo/intel. Header: 11166 70147 34591 26074 01009	FSK 200/1000	(AB)
<b>F06</b>	9474	27-1	0920	Sat	Russian diplo/intel. Header: 11166 70147 34591 26074	FSK 200/1000	(AB)



<b>F06</b>	14418	31-1	0820	Wed	Russian diplo/intel. 11166 70048 26358 31053 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
<b>F11</b>	9370	1-1	0845	Mon	0353 88888 88888 66759 21286 33606 ... 46524 38823 13225 88888 88888 00036 00036	FSK 100/620	(AB)
<b>F11</b>	9370	1-1	0850	Mon	0353 88888 88888 66759 21286 33606 ... 46524 38823 13225 88888 88888 00036 00036	FSK 100/620	(AB)
<b>F11</b>	6807	2-1	1150	Tue	0325 00000	FSK 100/620	(AB/MPJ)
<b>F11</b>	6807	2-1	1155	Tue	0325 00000	FSK 100/620	(AB/MPJ)
<b>F11</b>	9370	3-1	0845	Wed	0353 88888 88888 66759 21286 33606 ... 46524 38823 13225 88888 88888 00036 00036	FSK 100/620	(AB)
<b>F11</b>	9370	3-1	0850	Wed	0353 88888 88888 66759 21286 33606 ... 46524 38823 13225 88888 88888 00036 00036	FSK 100/620	(AB)
<b>F11</b>	6807	3-1	1150	Wed	0325 00000	FSK 100/620	(AB/MPJ)
<b>F11</b>	6807	3-1	1155	Wed	0325 00000	FSK 100/620	(AB/MPJ)
<b>F11</b>	6807	9-1	1155	Tue	0325 00000	FSK 100/620	(AB/MPJ)
<b>F11</b>	9370	10-1	0845	Wed	0353 00000	FSK 100/620	(AB)
<b>F11</b>	9370	10-1	0850	Wed	0353 00000	FSK 100/620	(AB)
<b>F11</b>	6807	10-1	1150	Wed	0325 00000	FSK 100/620	(AB/MPJ)
<b>F11</b>	6807	10-1	1155	Wed	0325 00000	FSK 100/620	(AB/MPJ)
<b>F11</b>	6807	16-1	1150	Tue	0325 00000	FSK 100/620	(AB/MPJ)
<b>F11</b>	6807	16-1	1155	Tue	0325 00000	FSK 100/620	(AB/MPJ)
<b>F11</b>	9370	17-1	0845	Wed	0353 00000	FSK 100/620	(AB)
<b>F11</b>	9370	17-1	0850	Wed	0353 00000	FSK 100/620	(AB)
<b>F11</b>	6807	17-1	1150	Wed	0325 00000	FSK 100/620	(AB/MPJ)
<b>F11</b>	6807	17-1	1155	Wed	0325 00000	FSK 100/620	(AB/MPJ)
<b>F11</b>	9370	22-1	0845	Mon	0353 00000	FSK 100/620	(AB)
<b>F11</b>	9370	22-1	0850	Mon	0353 00000	FSK 100/620	(AB)
<b>F11</b>	6807	23-1	1150	Tue	0325 00000	FSK 100/620	(AB/MPJ)
<b>F11</b>	6807	23-1	1155	Tue	0325 00000	FSK 100/620	(AB)
<b>F11</b>	9370	24-1	0845	Wed	0353 00000	FSK 100/620	(AB)
<b>F11</b>	9370	24-1	0850	Wed	0353 00000	FSK 100/620	(AB)
<b>F11</b>	6807	24-1	1150	Wed	0325 00000	FSK 100/620	(AB/MPJ)
<b>F11</b>	6807	24-1	1155	Wed	0325 00000	FSK 100/620	(AB/MPJ)
<b>F11</b>	9370	29-1	0845	Mon	0353 00000	FSK 100/620	(AB)
<b>F11</b>	9370	29-1	0850	Mon	0353 00000	FSK 100/620	(AB)
<b>F11</b>	6807	30-1	1150	Tue	0325 88888 88888 54154 27691 51563 ... 23989 63094 27146 88888 88888 00037 00037	FSK 100/620	(AB/MPJ)
<b>F11</b>	6807	30-1	1155	Tue	0325 88888 88888 54154 27691 51563 ... 23989 63094 27146 88888 88888 00037 00037	FSK 100/620	(AB)
<b>F11</b>	9370	31-1	0845	Wed	0353 00000	FSK 100/620	(AB)
<b>F11</b>	9370	31-1	0850	Wed	0353 00000	FSK 100/620	(AB)
<b>F11</b>	6807	31-1	1150	Wed	0325 88888 88888 54154 27691 51563 ... 23989 63094 27146 88888 88888 00037 00037	FSK 100/620	(AB/MPJ)
<b>F11</b>	6807	31-1	1155	Wed	0325 88888 88888 54154 27691 51563 ... 23989 63094 27146 88888 88888 00037 00037	FSK 100/620	(AB/MPJ)
<b>G06</b>	5320	1-1	0800	Mon	329 329 329 00000	USB	(AB)
<b>G06</b>	3750	1-1	1700	Mon	938 938 938 00000	USB	(AB)
<b>G06</b>	3750	1-1	1702	Mon	111 111 111 00000	USB	(AB)
<b>G06</b>	3750	1-1	1708	Mon	distorted 111	USB	(AB)
<b>G06</b>	3750	1-1	1710	Mon	distorted 111	USB	(AB)
<b>G06</b>	4490	1-1	1800	Mon	938 938 938 00000	USB	(AB)
<b>G06</b>	4042	3-1	1300	Wed	938 938 938 00000	USB	(AB)
<b>G06</b>	4460	4-1	1300	Thu	329 329 329 00000	USB	(AB-POL)
<b>G06</b>	3750	8-1	1700	Mon	938 938 938 00000	USB	(AB/MPJ)
<b>G06</b>	4483	8-1	1750	Mon	111 111 111 00000 Windows sound	USB	(AB)
<b>G06</b>	4483	8-1	1800	Mon	938 938 938 00000	USB	(AB/MPJ)
<b>G06</b>	4920	10-1	1200	Wed	938 938 938 00000	USB	(AB-POL)
<b>G06</b>	4042	10-1	1300	Wed	938 938 938 00000	USB	(AB-POL)
<b>G06</b>	4519	11-1	1830	Thu	271 847 58 67391 24518 97497 ... 21645 72848 69529 847 58 00000	USB	(AB/MPJ)
<b>G06</b>	4792	12-1	1930	Fri	436 273 62 64537 27364 28374 ... 64612 84759 76491 273 62 00000	USB	(AB/MPJ)
<b>G06</b>	4460	18-1	1300	Thu	329 329 329 00000	USB	(AB-POL/MPJ)
<b>G06</b>	4519	25-1	1830	Thu	271 273 62 64537 27364 28374 ... 64612 84759 76491 273 62 00000	USB	(AB/MPJ)
<b>G06</b>	4792	26-1	1930	Fri	436 273 62 64537 27364 28374 ... 64612 84759 76491 273 62 00000	USB	(AB/MPJ)



HM01	11435	1-1	1556	Mon	82831 01231 52231 18515 86846 82547	AM/RDFT	(RR2)
HM01	11435	2-1	1559	Tue	82831 01231 52232 18516 86847 82548	AM/RDFT	(RR2)
HM01	11530	2-1	1700	Tue	82831 01231 52232 18516 86847 83548	AM/RDFT	(Jul)
HM01	9155	3-1	1000	Wed	82831 01231 52232 18516 86847 83548	AM/RDFT	(Jul)
HM01	11435	3-1	1601	Wed	82832 01232 52233 18517 86848 82549	AM/RDFT	(RR2)
HM01	11435	3-1	1700	Wed	82832 01232 52233 18517 86848 82549	AM/RDFT	(Jul)
HM01	11462	4-1	0858	Thu	82832 01232 52233 18517 86848 82549	AM/RDFT	(AB)
HM01	11435	4-1	1601	Thu	82833 01233 52234 18518 86849 45741	AM/RDFT	(RR2)
HM01	11635	4-1	1700	Thu	82833 01233 52234 18518 86849 45741	AM/RDFT	(Jul)
HM01	11435	5-1	1600	Fri	Abruptly and in progress 82834 01234 52235 18519 18821 45741	AM/RDFT	(RR2)
HM01	11435	6-1	1601	Sat	abruptly and in progress: 82835 01235 52236 22761 18821 45742	AM/RDFT	(RR2)
HM01	11435	7-1	1600	Sun	abruptly and in progress: 82836 01236 52237 22761 18822 45743	AM/RDFT	(RR2)
HM01	11435	8-1	1556	Mon	82837 01237 46441 22762 18823 45744	AM/RDFT	(RR2)
HM01	11435	9-1	1604	Tue	82838 01238 46441 22763 18824 45745	AM/RDFT	(RR2)
HM01	11530	9-1	1658	Tue	82838 01238 46441 22763 18824 45745 (transmission failed)	AM/RDFT	(Jul)
HM01	17480	9-1	2200	Tue	01238 46441 22763 18824 45745 82838	AM/RDFT	(AB)
HM01	10345	10-1	0556	Wed	01238 46441 22763 18824 45745 82838	AM/RDFT	(AB)
HM01	11435	10-1	1559	Wed	Abrupt and in progress 73481 01239 46442 22764 18825 45746	AM/RDFT	(RR2)
HM01	8097	11-1	1357	Thu	Very noisy transmitter. Two HM01 transmissions mixing	AM/RDFT LSB	(AB-USA)
HM01	11435	11-1	1557	Thu	73481 24681 46443 22765 18826 45747	AM/RDFT	(Jul)
HM01	11635	11-1	1806	Thu	i.p. 73481 24681 46443 22765 18826 45747	AM/RDFT	(RR2)
HM01	9155	12-1	0956	Fri	73481 24681 46443 22765 18826 45747	AM/RDFT	(AB)
HM01	9155	12-1	0957	Fri	73481 24681 46443 22765 18826 45747	AM/RDFT	(Jul)
HM01	11435	12-1	1557	Fri	73482 24681 46444 22766 18827 45748	AM/RDFT	(RR2)
HM01	11530	12-1	1700	Fri	73482 24681 46444 22766 18827 45748	AM/RDFT	(Jul)
HM01	11435	13-1	1558	Sat	73483 24682 46445 22767 18828 45749	AM/RDFT	(RR2)
HM01	11530	13-1	1700	Sat	Scheduled HM01.	AM/RDFT	(BW3)
HM01	11435	14-1	1630	Sun	i.p. 73484 24683 46446 22768 18829 27041	AM/RDFT	(RR2)
HM01	10715	14-1	2157	Sun	73484 24683 46446 22768 18829 27041	AM/RDFT	(RR2)
HM01	10345	15-1	0557	Mon	73484 24683 46446 22768 18829 27041	AM/RDFT	(AB)
HM01	9330	15-1	0657	Mon	73484 24683 46446 22768 18829 27041	AM/RDFT	(AB)
HM01	9240	15-1	0857	Mon	73484 24683 46446 22768 18829 27041	AM/RDFT	(AB/RL)
HM01	9155	15-1	0957	Mon	73484 24683 46446 22768 18829 27041	AM/RDFT	(RL)
HM01	11435	15-1	1556	Mon	73485 24684 46447 38631 78461 27041	AM/RDFT	(RR2)
HM01	10715	15-1	2057	Mon	73485 24684 46447 38631 78461 27041	AM/RDFT	(RL)
HM01	11635	15-1	2057	Mon	73485 24684 46447 38631 78461 27041 Stopped at 2106 UTC	AM/RDFT	(RL)
HM01	11435	16-1	1602	Tue	abrupt and in progress 73486 24685 46448 38631 78461 27042	AM/RDFT	(RR2)
HM01	16180	16-1	2110	Tue	i.p. 73486 24685 46448 38631 78461 27042	AM/RDFT	(RL)
HM01	17480	16-1	2200	Tue	73486 24685 46448 38631 78461 27042	AM/RDFT	(RL/Dan)
HM01	9155	17-1	0957	Wed	73486 24685 46448 38631 78461 27042 10	AM/RDFT	(RL)
HM01	11435	17-1	1601	Wed	Radio Habana Cuba, then at 1603 UTC abrupt and in progress: 73487 24686 46449 38632 78462 27043	AM/RDFT	(RR2)
HM01	11530	17-1	1700	Wed	46449 38632 784622 7043 73487 24686	AM/RDFT	(Jul)
HM01	11435	18-1	1601	Thu	Abruptly and in progress 73488 24687 61421 38633 78463 27044	AM/RDFT	(RR2)
HM01	16180	18-1	2055	Thu	73488 24687 61421 38633 78463 27044	AM/RDFT	(RL)
HM01	17480	18-1	2157	Thu	Carrier till 2201 UTC, then HM01 already i.p. 73488 24687 61421 38633 78463 27044	AM/RDFT	(RL)
HM01	11530	19-1	1658	Fri	i.p. 38061 24688 61421 38634 78464 27045	AM/RDFT	(RR2)
HM01	11435	20-1	1559	Sat	i.p. 38061 25881 61422 38635 78465 27046	AM/RDFT	(RR2)
HM01	11435	21-1	1556	Sun	Radio Habana Cuba at 1556 UTC then at 1557 UTC 38062 25881 61423 38636 78466 27047	AM/RDFT	(RR2)
HM01	11435	22-1	1556	Mon	38063 25882 61424 38637 78467 27048	AM/RDFT	(RR2)
HM01	11435	22-1	1557	Mon	25882 61424 38637 78467 27048 38063	AM/RDFT	(Jul)
HM01	11435	23-1	1557	Tue	25883 61425 68561 38637 78468 27049	AM/RDFT	(Jul)
HM01	11435	23-1	1601	Tue	Abruptly and in progress 38064 25883 61425 68561 78468 27049	AM/RDFT	(RR2)
HM01	16180	23-1	2104	Tue	38064 25883 61425 68561 78468 27049	AM/RDFT	(RL)
HM01	17480	23-1	2157	Tue	38064 25883 61425 68561 78468 27049	AM/RDFT	(RL)
HM01	9240	24-1	0857	Wed	38064 25883 61425 68561 78468 27049	AM/RDFT	(AB)

HM01	9155	24-1	0957	Wed	38064 25883 61425 68561 78468 27049	AM/RDFT	(AB/RL)
HM01	11435	24-1	1559	Wed	Abruptly and in progress 38065 25884 61426 68561 07171 41871	AM/RDFT	(RR2)
HM01	11530	24-1	1657	Wed	25884 61426 68561 07171 41871 38065	AM/RDFT	(Jul)
HM01	10715	24-1	2157	Wed	38065 25884 61426 68561 07171 41871	AM/RDFT	(RL)
HM01	11435	25-1	1557	Thu	Radio Habana Cuba, then 25885 61426 68562 07171 41781 38066	AM/RDFT	(Jul)
HM01	11435	25-1	1603	Thu	Abruptly and in progress after Windows sounds and much Radio Habana Cuba banter in Spanish and top of hour fan-fare: 38066 25885 61427 68562 07171 41871	AM/RDFT	(RR2)
HM01	16180	25-1	2100	Thu	38066 25885 61427 68562 07171 41871	AM/RDFT	(RL)
HM01	17480	25-1	2157	Thu	38066 25885 61427 68562 07171 41871	AM/RDFT	(RL)
HM01	11530	26-1	1726	Fri	38067 25886 65821 68563 07172 41872	AM/RDFT	(RR2)
HM01	11435	27-1	1602	Sat	Abruptly and in progress 38068 25887 65821 68564 07173 41873	AM/RDFT	(RR2)
HM01	16180	27-1	2057	Sat	38068 25887 65821 68564 07173 41873	AM/RDFT	(RL)
HM01	17480	27-1	2157	Sat	38068 25887 65821 68564 07173 41873	AM/RDFT	(RL)
HM01	9155	28-1	0957	Sun	38068 25887 65821 68564 07173 41873	AM/RDFT	(RL)
HM01	11435	28-1	1607	Sun	54741 25888 65822 68565 07174 41874	AM/RDFT	(RR2)
HM01	11635	28-1	2057	Sun	54741 25888 65822 68565 07174 41874	AM/RDFT	(RL)
HM01	10715	28-1	2200	Sun	54741 25888 65822 68565 07174 41874	AM/RDFT	(Dan)
HM01	9240	29-1	0933	Mon	54741 25888 65822 68565 07174 41874	AM/RDFT	(MCO)
HM01	11435	29-1	1555	Mon	Radio Habana Cuba then HM01 at 1556 UTC: 54741 25889 65823 68566 07175 41875	AM/RDFT	(RR2)
HM01	11435	29-1	1557	Mon	Radio Habana Cuba, then 54741 25889 65823 68566 07175 41875	AM/RDFT	(Jul)
HM01	10715	29-1	2157	Mon	54741 25889 65823 68566 07175 41875	AM/RDFT	(RL)
HM01	11435	30-1	1557	Tue	54742 13001 65824 68567 07176 41876	AM/RDFT	(Jul)
HM01	11635	30-1	1808	Tue	i.p. 54742 13001 65824 68567 07176 41876	AM/RDFT	(RR2)
HM01	16180	30-1	2108	Tue	i.p. 54742 13001 65824 68567 07176 41876	AM/RDFT	(RL)
HM01	17480	30-1	2157	Tue	54742 13001 65824 68567 07176 41876	AM/RDFT	(RL)
HM01	9240	31-1	0857	Wed	54742 13001 65824 68567 07176 41876	AM/RDFT	(AB)
HM01	9155	31-1	0957	Wed	54742 13001 65824 68567 07176 41876	AM/RDFT	(AB)
HM01	11435	31-1	1557	Wed	54743 13001 65825 85741 07177 41877	AM/RDFT	(Jul/RR2)
HM01	10715	31-1	2157	Wed	54743 13001 65825 85741 07177 41877	AM/RDFT	(RL)
M01	5320	2-1	1800	Tue	197 684 = = 30 684 = 30 44961 22745 _2495 ... 96868 77522 76998 = = 684 _4 = = 684 = 30	CW	(MPJ)
M01	4490	2-1	2000	Tue	197 741 = 30 = = 741 = 30 = = 49924 61190 07280 ... 06998 71275 57262 = = 741 = 30 = = 741 = 30	CW	(MPJ)
M01	4490	4-1	2000	Thu	197 462 30 = = 65118 52721 39851 ... 52520 21952 47387 = = 462 30 000	CW	(MPJ)
M01	5812.2	6-1	1500	Sat	197 789 30 = = 47051 32066 11459 ... 43769 83878 89882 = = 789 30 000	CW	(MPJ)
M01	5320	9-1	1800	Tue	197 221 30 = = 00826 47372 86374 ... 12459 87380 63618 = = 197 30 000	CW	(MPJ)
M01	5320	11-1	1800	Thu	197 397 30 = = 65249 06624 75529 ... 33801 38140 65049 = = 397 30 000	CW	(MPJ)
M01	4490	11-1	2001	Thu	197 103 30 = = 45407 38833 27455 ... 33235 90121 81015 = = 103 30 000	CW	(MPJ)
M01	5465	14-1	0700	Sun	197 ### # 66653	CW	(HFD)
M01	5320	16-1	1800	Tue	197 530 530 30 30 = = 57514 56815 87375 ... 39832 82532 07546 = = 530 530 30 30 000	MCW	(AB/MPJ)
M01	4490	16-1	2000	Tue	197 448 448 30 30 = = 08733 10319 81736 ... 22465 66707 30261 = = 448 448 30 30 000	MCW	(AB/MPJ)
M01	5320	18-1	1800	Thu	197 584 30 = = 26073 68004 13267 ... 74532 83154 92674 = = 584 30 000	CW	(MPJ)
M01	4490	18-1	2000	Thu	197 876 30 = = 62159 13259 69561 ... 89129 24747 63705 = = 876 30 000	CW	(MPJ)
M01	5810	20-1	1500	Sat	197 990 72 990 72 24659 89681 93593 ... 99165 76652 26555 = = 781 = 30 = = 781 03 000	MCW	(AB/MPJ)
M01	4490	23-1	2000	Tue	197 399 30 = = 17136 21068 90430 ... 30826 86058 23345 = = 399 30 000	CW	(MPJ)
M01	4490	25-1	2000	Thu	197 709 = 30 30 = = 21852 00507 76906 ... 58314 = = 709 709 30 30 000	CW	(MPJ)
M01	5810	27-1	1500	Sat	197 708 30 = = 09344 89874 98469 ... 28437 32813 08126 = = 708 30 000	CW	(MPJ)
M01	5320	30-1	1800	Tue	197 654 30 = = 16732 49524 44648 ... 96019 78427 71565 =	CW	(MPJ)

					= 654 30 000		
<b>M01</b>	4490	30-1	2000	Tue	197 876 30 == 19814 22287 69180 ... 30098 97970 14591 = = 876 30 000	CW	(MPJ)
<b>M01a</b>	9129	3-1	0546	Wed	i.p. 498 408 408 53067 53067 067 067 067 498 498 498 5317	CW	(JPL-Sib)
<b>M01a</b>	10651	23-1	0711	Tue	i.p. 297 297 297 38180 38180 297 297 297 39318 39318 297 297 297 39318 39 stopped	CW	(JPL-NZL)
<b>M01a</b>	4506	28-1	1613	Sun	891 91 891 891 83665 83665 891 891 891 83665 83665 891 891 891 82169 82169	CW	(MPJ)
<b>M01b</b>	3545	4-1	1932	Thu	910 524 33 == 99626 65552 (66552?) 72992 ... 84328 94985 45038 == 524 33 000	MCW	(MPJ)
<b>M01b</b>	2655	5-1	2002	Fri	866 524 33 == 99626 66552 72992 ... 84328 94985 45038 = = 524 33 000 //3195 kHz	MCW	(MPJ)
<b>M01b</b>	3195	5-1	2002	Fri	866 524 33 == 99626 66552 72992 ... 84328 94985 45038 = = 524 33 000 //2655 kHz	MCW	(MPJ)
<b>M01b</b>	2435	8-1	1910	Mon	853 524 524 33 33 == 99626 66552 72992 ... 84328 94985 45038 == 524 524 33 33 00000	MCW	(MPJ)
<b>M01b</b>	3520	8-1	1910	Mon	853 524 524 33 33 == 99626 66552 72992 ... 84328 94985 45038 == 524 524 33 33 00000	MCW	(AB/MPJ)
<b>M01b</b>	2425	8-1	2015	Mon	375 524 524 33 33 == 99626 66552 72992 ... 84328 94985 45038 == 524 524 33 33 00000	MCW	(MPJ)
<b>M01b</b>	3205	8-1	2015	Mon	375 524 524 33 33 == 99626 66552 72992 ... 84328 94985 45038 == 524 524 33 33 00000	MCW	(MPJ)
<b>M01b</b>	3545	11-1	1930	Thu	910 524 524 33 33 99626 66552 72992 ... 84328 94985 45038 == 524 524 33 33 00000	MCW	(AB/MPJ)
<b>M01b</b>	3160	11-1	2042	Thu	382 524 524 33 33 99626 66552 72992 ... 84328 94985 45038 == 524 524 33 33 00000	MCW	(AB)
<b>M01b</b>	2655	12-1	2002	Fri	866 524 33 == 99626 66552 72992 ... 84328 94985 45038 = = 524 33 000 //3195 kHz	MCW	(MPJ)
<b>M01b</b>	3195	12-1	2002	Fri	866 524 33 == 99626 66552 72992 ... 84328 94985 45038 = = 524 33 000 //2655 kHz	MCW	(MPJ)
<b>M01b</b>	2435	15-1	1910	Mon	853 524 33 == 99626 66552 72992 ... 84328 94985 45038 = = 524 33 000 //3520 kHz	MCW	(MPJ)
<b>M01b</b>	3520	15-1	1910	Mon	853 524 33 == 99626 66552 72992 ... 84328 94985 45038 = = 524 33 000 //2435 kHz	MCW	(MPJ)
<b>M01b</b>	3205	15-1	2015	Mon	375 524 33 == 99626 66552 72992 ... 84328 94985 45038 = = 524 33 000	MCW	(MPJ)
<b>M01b</b>	2470	18-1	1932	Thu	910 524 33 == 99626 66552 72992 ... 84328 94985 45038 = = 524 33 000 //3545 kHz	MCW	(MPJ)
<b>M01b</b>	3545	18-1	1932	Thu	910 524 33 == 99626 66552 72992 ... 84328 94985 45038 = = 524 33 000 //2470 kHz	MCW	(MPJ)
<b>M01b</b>	2655	19-1	2002	Fri	866 524 33 == 99626 66552 72992 ... 84328 94985 45038 = = 524 33 000 //3195 kHz	MCW	(MPJ)
<b>M01b</b>	3195	19-1	2002	Fri	866 524 33 == 99626 66552 72992 ... 84328 94985 45038 = = 524 33 000 //2655 kHz	MCW	(MPJ)
<b>M01b</b>	3520	22-1	1910	Mon	853 524 33 == 99626 66552 72992 ... 84328 94985 45038 = = 524 33 000	MCW	(MPJ)
<b>M01b</b>	3205	22-1	2015	Mon	375 524 33 == 99626 66552 72992 ... 84328 94985 45038 = = 524 33 000	MCW	(MPJ)
<b>M01b</b>	2655	26-1	2002	Fri	866 524 33 == 99626 66552 72992 ... 84328 94985 45038 = = 524 33 000 //3195 kHz	MCW	(MPJ)
<b>M01b</b>	3195	26-1	2002	Fri	866 524 33 == 99626 66552 72992 ... 84328 94985 45038 = = 524 33 000 //2655 kHz	MCW	(MPJ)
<b>M08a</b>	8096	3-1	1402	Wed	Noisy transmitter at 1350 UTC, then at 1402 UTC abruptly M08a already halfway its first message WDRTU WIDTT NWNWN RRNGU TIARI AAINU ...	CW	(AB-USA)
<b>M08a</b>	8096	5-1	1352	Fri	WDRWA RWTGN IGDA followed by 3 messages	CW	(AB-USA)
<b>M08a</b>	8096	9-1	1408	Tue	Transmitter switched on. Windows sounds, then at 1409 UTC into a message that was already in progress	CW	(AB)
<b>M08a</b>	8096	10-1	1355	Wed	AWTIA NIDTN DARDN followed by 3 messages	CW	(AB-USA)
<b>M08a</b>	8097	11-1	1413	Thu	Windows sound followed by a M08a test transmission send- ing ANDUW RIGMT for 34 minutes. HM01 still weak in the background for a while. Transmitter off at 1449 UTC	CW LSB	(AB-USA)
<b>M08a</b>	8096	12-1	1325	Fri	i.p.	CW	(AAFL)
<b>M08a</b>	8096	15-1	1416	Mon	Noisy transmitter on at 1356 UTC. Windows sound at 1416 UTC, followed by a M08a test transmission sending ANDUW RIGMT for 41 minutes. At 1558 UTC Windows sounds after	CW	(AB-USA)

					which M08a stops. Transmitter off		
<b>M08a</b>	8096	17-1	1356	Wed	RGIUN INAIA GWUTA followed by 3 messages	CW	(AB-USA)
<b>M08a</b>	8096	19-1	1402	Fri	i.p. TRDWD WRDGR ADGRD NGWIW DDTUR GGGAR GGGTU TADAD DUARW ...	CW	(AB-USA)
<b>M08a</b>	8096	24-1	1356	Wed	DARAN UUTUA NIDGA followed by 3 messages	CW	(AB-USA)
<b>M08a</b>	8096	29-1	1350	Mon	loud noise, then at 1413z into the 2nd message that is al- ready in progress DTTUW UTWDG NRGDD ATDDT NTGTR WWWAU NNTNN GTNGN TRUNT GWGDA ...	CW	(AB-ABW)
<b>M12</b>	10547	1-1	1400	Mon	505 505 505 000	CW	(AB/MPJ)
<b>M12</b>	10547	1-1	1400	Mon	505 505 505 000	CW	(AB)
<b>M12</b>	9047	1-1	1420	Mon	505 505 505 000	CW	(AB)
<b>M12</b>	9047	1-1	1420	Mon	505 505 505 000	CW	(AB/MPJ)
<b>M12</b>	10547	3-1	1400	Wed	505 505 505 000	CW	(AB/MPJ)
<b>M12</b>	9047	3-1	1410	Wed	505 505 505 000	CW	(AB/MPJ)
<b>M12</b>	5764	3-1	2110	Wed	875 875 875 000	CW	(HFD)
<b>M12</b>	5361	3-1	2200	Wed	340 340 340 000	CW	(AB)
<b>M12</b>	4461	3-1	2220	Wed	340 340 340 000	CW	(AB)
<b>M12</b>	7692	4-1	1310	Thu	678 678 678 000	CW	(AB/MPJ/HFD)
<b>M12</b>	6792	4-1	1330	Thu	678 678 678 000	CW	(AB/MPJ/HFD)
<b>M12</b>	6864	5-1	2050	Fri	875 875 875 000	CW	(AB)
<b>M12</b>	5764	5-1	2110	Fri	875 875 875 000	CW	(AB)
<b>M12</b>	5838	6-1	0600	Sat	842 842 842 000	CW	(AB)
<b>M12</b>	7438	6-1	0620	Sat	842 842 842 000	CW	(AB)
<b>M12</b>	7692	6-1	1310	Sat	678 678 678 000	CW	(AB/MPJ)
<b>M12</b>	6792	6-1	1330	Sat	678 678 678 000	CW	(AB/MPJ)
<b>M12</b>	13369	7-1	1010	Sun	369 369 369 000	CW	(AB/HJFD)
<b>M12</b>	14669	7-1	1030	Sun	369 369 369 000	CW	(AB/Benka/HFD)
<b>M12</b>	10547	10-1	1400	Wed	505 505 505 000	CW	(AB/MPJ)
<b>M12</b>	9047	10-1	1420	Wed	505 505 505 000	CW	(AB/MPJ)
<b>M12</b>	9176	10-1	1800	Wed	257 1 7855 145 1 00796 39243 67096 ... 60098 23720 32025 000 000	CW	(MPJ)
<b>M12</b>	7931	10-1	1820	Wed	257 1 7855 145 1 00796 39243 67096 ... 60098 23720 32025 000 000	CW	(MPJ)
<b>M12</b>	6904	10-1	1840	Wed	257 1 7855 145 1 00796 39243 67096 ... 60098 23720 32025 000 000	CW	(MPJ)
<b>M12</b>	8047	10-1	1900	Wed	463 1 5470 143 1 99128 73842 35450 ... 75986 60830 96344 000 000	CW	(MPJ)
<b>M12</b>	7931	10-1	1920	Wed	463 1 5470 143 1 99128 73842 35450 ... 75986 60830 96344 000 000	CW	(MPJ)
<b>M12</b>	6904	10-1	1940	Wed	463 1 5470 143 1 99128 73842 35450 ... 75986 60830 96344 000 000	CW	(MPJ)
<b>M12</b>	6864	10-1	2050	Wed	875 875 875 000	CW	(HFD)
<b>M12</b>	5764	10-1	2110	Wed	875 875 875 000	CW	(HFD)
<b>M12</b>	5361	10-1	2200	Wed	340 340 340 1 1128 147 1128 147 45980 95520 44886 ... 42899 78926 49653 000 000	CW	(AB)
<b>M12</b>	4461	10-1	2220	Wed	340 340 340 1 1128 147 1128 147 45980 95520 44886 ... 42899 78926 49653 000 000	CW	(AB)
<b>M12</b>	4061	10-1	2240	Wed	340 340 340 1 1128 147 1128 147 45980 95520 44886 ... 42899 78926 49653 000 000	CW	(AB)
<b>M12</b>	13369	11-1	1010	Thu	369 369 369 000	CW	(AB)
<b>M12</b>	14669	11-1	1030	Thu	369 369 369 000	CW	(AB)
<b>M12</b>	7692	11-1	1310	Thu	678 678 678 1 8263 81 8263 81 89938 78190 22968 ... 72670 77934 57294 38970 000 000	CW	(AB/MPJ)
<b>M12</b>	6792	11-1	1330	Thu	678 678 678 1 8263 81 8263 81 89938 78190 22968 ... 72670 77934 57294 38970 000 000	CW	(AB/MPJ)
<b>M12</b>	5892	11-1	1350	Thu	678 678 678 1 8263 81 8263 81 89938 78190 22968 ... 72670 77934 57294 38970 000 000	CW	(AB/MPJ)
<b>M12</b>	14377	11-1	1700	Thu	317 1 5491 105 27910 56219 55400 ... 51427 24453 01292 000 000	CW	(MPJ)
<b>M12</b>	13461	11-1	1720	Thu	317 1 5491 105 27910 56219 55400 ... 51427 24453 01292 000 000	CW	(MPJ)
<b>M12</b>	12114	11-1	1740	Thu	317 1 5491 105 27910 56219 55400 ... 51427 24453 01292 000 000	CW	(MPJ)
<b>M12</b>	6864	12-1	2050	Fri	875 875 875 000	CW	(AB)
<b>M12</b>	5764	12-1	2110	Fri	875 875 875 000	CW	(AB)
<b>M12</b>	5838	13-1	0600	Sat	842 842 842 1 1128 147 1128 147 45980 95520 44886 ... 42899 78926 49653 000 000	CW	(AB/HFD)

<b>M12</b>	7438	13-1	0620	Sat	842 842 842 1 1128 147 1128 147 45980 95520 44886 ... 42899 78926 49653 000 000	CW	(AB/HFD)
<b>M12</b>	9238	13-1	0640	Sat	842 842 842 1 1128 147 1128 147 45980 95520 44886 ... 42899 78926 49653 000 000	CW	(AB/HFD)
<b>M12</b>	7692	13-1	1310	Sat	678 1 8263 81 79938 78190 22968 ... 77934 57294 38970 000 000	CW	(MPJ)
<b>M12</b>	6792	13-1	1330	Sat	678 1 8263 81 79938 78190 22968 ... 77934 57294 38970 000 000	CW	(MPJ)
<b>M12</b>	10547	15-1	1400	Mon	505 505 505 1 8424 69 8424 69 22691 16940 73244 ... 39953 95505 42220 000 000	CW	(AB/MPJ)
<b>M12</b>	9047	15-1	1420	Mon	505 505 505 1 8424 69 8424 69 22691 16940 73244 ... 39953 95505 42220 000 000	CW	(AB/MPJ)
<b>M12</b>	7547	15-1	1440	Mon	505 505 505 1 8424 69 8424 69 22691 16940 73244 ... 39953 95505 42220 000 000	CW	(MPJ)
<b>M12</b>	7547	15-1	1440	Mon	505 505 505 1 8424 69 8424 69 22691 16940 73244 ... 39953 95505 42220 000 000	CW	(AB/MPJ)
<b>M12</b>	10598	15-1	1930	Mon	938 1 7826 84 44731 35347 57803 ... 33768 81500 63695 000 000	CW	(MPJ)
<b>M12</b>	9327	15-1	1950	Mon	938 1 7826 84 44731 35347 57803 ... 33768 81500 63695 000 000	CW	(MPJ)
<b>M12</b>	10547	17-1	1400	Wed	505 505 505 1 8424 69 8424 69 22691 16940 73244 ... 39953 95505 42220 000 000	CW	(MPJ/HFD)
<b>M12</b>	9047	17-1	1420	Wed	505 505 505 1 8424 69 8424 69 22691 16940 73244 ... 39953 95505 42220 000 000	CW	(MPJ/HFD)
<b>M12</b>	9176	17-1	1800	Wed	257 257 257 1 2787 134 2787 134 69444 80411 64448 ... 79765 00130 36516 000 000	CW	(AB/MPJ/HFD)
<b>M12</b>	7931	17-1	1820	Wed	257 257 257 1 2787 134 2787 134 69444 80411 64448 ... 79765 00130 36516 000 000	CW	(AB/MPJ/HFD)
<b>M12</b>	6904	17-1	1840	Wed	257 257 257 1 2787 134 2787 134 69444 80411 64448 ... 79765 00130 36516 000 000	CW	(AB/MPJ/HFD)
<b>M12</b>	8047	17-1	1900	Wed	463 1 5969 143 60811 55072 77876 ... 85424 45736 88196 000 000	CW	(MPJ)
<b>M12</b>	6802	17-1	1920	Wed	463 1 5969 143 60811 55072 77876 ... 85424 45736 88196 000 000	CW	(MPJ)
<b>M12</b>	5788	17-1	1940	Wed	463 1 5969 143 60811 55072 77876 ... 85424 45736 88196 000 000	CW	(MPJ)
<b>M12</b>	6864	17-1	2050	Wed	875 875 875 000	CW	(AB)
<b>M12</b>	5764	17-1	2110	Wed	875 875 875 000	CW	(AB/RL)
<b>M12</b>	5361	17-1	2200	Wed	340 340 340 000	CW	(AB)
<b>M12</b>	4461	17-1	2220	Wed	340 340 340 000	CW	(AB)
<b>M12</b>	13369	18-1	1010	Thu	369 369 369 1 6565 75 6565 75 49743 87939 89818 ... 25299 11454 46905 000 000	CW	(AB)
<b>M12</b>	14669	18-1	1030	Thu	369 369 369 1 6565 75 6565 75 49743 87939 89818 ... 25299 11454 46905 000 000	CW	(AB)
<b>M12</b>	15969	18-1	1050	Thu	369 369 369 1 6565 75 6565 75 49743 87939 89818 ... 25299 11454 46905 000 000	CW	(AB)
<b>M12</b>	7692	18-1	1310	Thu	678 678 678 000	CW	(AB/MPJ)
<b>M12</b>	6792	18-1	1330	Thu	678 678 678 000	CW	(AB/MPJ)
<b>M12</b>	14377	18-1	1700	Thu	317 317 317 1 9818 110 9818 110 14767 11068 81814 ... 61576 82947 93801 000 000	CW	(AB)
<b>M12</b>	13461	18-1	1720	Thu	317 317 317 1 9818 110 9818 110 14767 11068 81814 ... 61576 82947 93801 000 000	CW	(AB/MPJ)
<b>M12</b>	12114	18-1	1740	Thu	317 317 317 1 9818 110 9818 110 14767 11068 81814 ... 61576 82947 93801 000 000	CW	(AB)
<b>M12</b>	6864	19-1	2050	Fri	875 875 875 000	CW	(AB)
<b>M12</b>	5764	19-1	2110	Fri	875 875 875 000	CW	(AB)
<b>M12</b>	5838	20-1	0600	Sat	842 842 842 000	CW	(AB)
<b>M12</b>	7438	20-1	0620	Sat	842 842 842 000	CW	(AB)
<b>M12</b>	7692	20-1	1310	Sat	678 678 678 000	CW	(AB/MPJ)
<b>M12</b>	6792	20-1	1330	Sat	678 678 678 000	CW	(AB/MPJ)
<b>M12</b>	13369	21-1	1010	Sun	369 369 369 1 6565 75 6565 75 49743 87939 89818 ... 25299 11454 46905 000 000	CW	(AB)
<b>M12</b>	14669	21-1	1030	Sun	369 369 369 1 6565 75 6565 75 49743 87939 89818 ... 25299 11454 46905 000 000	CW	(AB)
<b>M12</b>	15969	21-1	1050	Sun	369 369 369 1 6565 75 6565 75 49743 87939 89818 ... 25299 11454 46905 000 000	CW	(AB)
<b>M12</b>	10547	22-1	1400	Mon	505 505 505 000	CW	(MPJ)



<b>M12</b>	9047	22-1	1420	Mon	505 505 505 000	CW	(MPJ)
<b>M12</b>	11435	22-1	1910	Mon	938 1 5451 81 53090 80239 86151 ... 16656 75397 94183 000 000	CW	(MPJ-RUS/HFD)
<b>M12</b>	11435	22-1	1910	Mon	938 938 938 1 2859 78 2859 78 68182 64274 18477 ... 79893 55670 16553 000 000	CW	(MPJ)
<b>M12</b>	10598	22-1	1930	Mon	938 1 5451 81 53090 80239 86151 ... 16656 75397 94183 000 000	CW	(MPJ-RUS/HFD)
<b>M12</b>	10598	22-1	1930	Mon	938 938 938 1 2859 78 2859 78 68182 64274 18477 ... 79893 55670 16553 000 000	CW	(MPJ)
<b>M12</b>	9327	22-1	1950	Mon	938 1 5451 81 53090 80239 86151 ... 16656 75397 94183 000 000	CW	(MPJ-RUS/HFD)
<b>M12</b>	10547	24-1	1400	Wed	505 505 505 000	CW	(AB/MPJ)
<b>M12</b>	9047	24-1	1420	Wed	505 505 505 000	CW	(AB/MPJ)
<b>M12</b>	6904	24-1	1840	Wed	257 1 845 83 62298 02629 61992 ... 87011 22716 39857 000 000	CW	(MPJ)
<b>M12</b>	8047	24-1	1900	Wed	463 463 463 1 7474 147 7474 147 70679 07548 34744 ... 03947 46374 41936 000 000	CW	(AB/MPJ/HFD)
<b>M12</b>	6802	24-1	1920	Wed	463 463 463 1 7474 147 7474 147 70679 07548 34744 ... 03947 46374 41936 000 000	CW	(AB/MPJ/HFD)
<b>M12</b>	5788	24-1	1940	Wed	463 463 463 1 7474 147 7474 147 70679 07548 34744 ... 03947 46374 41936 000 000	CW	(AB/MPJ/HFD)
<b>M12</b>	6864	24-1	2050	Wed	875 875 875 000	CW	(AB)
<b>M12</b>	5764	24-1	2110	Wed	875 875 875 000	CW	(AB)
<b>M12</b>	5361	24-1	2200	Wed	340 340 340 1 2009 129 2009 129 02901 51718 30626 ... 29672 69567 14963 000 000	CW	(AB)
<b>M12</b>	4461	24-1	2220	Wed	340 340 340 1 2009 129 2009 129 02901 51718 30626 ... 29672 69567 14963 000 000	CW	(AB)
<b>M12</b>	4061	24-1	2240	Wed	340 340 340 1 2009 129 2009 129 02901 51718 30626 ... 29672 69567 14963 000 000	CW	(AB)
<b>M12</b>	13369	25-1	1010	Thu	369 369 369 000	CW	(AB)
<b>M12</b>	14669	25-1	1030	Thu	369 369 369 000	CW	(AB/RL)
<b>M12</b>	7692	25-1	1310	Thu	678 68 678 1 233 125 233 125 08258 75474 21610 ... 87363 00384 49854 000 000	CW	(AB/MPJ)
<b>M12</b>	6792	25-1	1330	Thu	678 68 678 1 233 125 233 125 08258 75474 21610 ... 87363 00384 49854 000 000	CW	(AB/MPJ)
<b>M12</b>	5892	25-1	1350	Thu	678 68 678 1 233 125 233 125 08258 75474 21610 ... 87363 00384 49854 000 000	CW	(AB/MPJ)
<b>M12</b>	14377	25-1	1700	Thu	317 1 8373 109 85302 26351 26021 ... 99007 67472 89178 000 000	CW	(MPJ-RUS)
<b>M12</b>	13461	25-1	1720	Thu	317 1 8373 109 85302 26351 26021 ... 99007 67472 89178 000 000	CW	(MPJ-RUS)
<b>M12</b>	12114	25-1	1740	Thu	317 1 8373 109 85302 26351 26021 ... 99007 67472 89178 000 000	CW	(MPJ-RUS)
<b>M12</b>	6864	26-1	2050	Fri	875 875 875 000	CW	(AB)
<b>M12</b>	5764	26-1	2110	Fri	875 875 875 000	CW	(AB)
<b>M12</b>	5838	27-1	0600	Sat	842 842 842 1 2009 129 2009 129 02901 51718 30626 ... 29672 69567 14963 000 000	CW	(AB)
<b>M12</b>	7438	27-1	0620	Sat	842 842 842 1 2009 129 2009 129 02901 51718 30626 ... 29672 69567 14963 000 000	CW	(AB)
<b>M12</b>	9238	27-1	0640	Sat	842 842 842 1 2009 129 2009 129 02901 51718 30626 ... 29672 69567 14963 000 000	CW	(AB)
<b>M12</b>	7692	27-1	1310	Sat	678 68 678 1 233 125 233 125 08258 75474 21610 ... 87363 00384 49854 000 000	CW	(AB)
<b>M12</b>	6792	27-1	1330	Sat	678 68 678 1 233 125 233 125 08258 75474 21610 ... 87363 00384 49854 000 000	CW	(AB)
<b>M12</b>	5892	27-1	1350	Sat	678 68 678 1 233 125 233 125 08258 75474 21610 ... 87363 00384 49854 000 000	CW	(AB/MPJ)
<b>M12</b>	13369	28-1	1010	Sun	369 369 369 000	CW	(AB)
<b>M12</b>	14669	28-1	1030	Sun	369 369 369 000	CW	(AB/RL)
<b>M12</b>	10547	29-1	1400	Mon	505 505 505 000	CW	(AB/MPJ)
<b>M12</b>	9047	29-1	1420	Mon	505 505 505 000	CW	(AB/MPJ)
<b>M12</b>	9327	29-1	1950	Mon	938 938 938 1 2859 78 2859 78 68182 64274 18477 ... 79893 55670 16553 000 000	CW	(MPJ/AB)
<b>M12</b>	10547	31-1	1400	Wed	505 505 505 000	CW	(MPJ)
<b>M12</b>	9047	31-1	1420	Wed	505 505 505 000	CW	(MPJ)
<b>M12</b>	9176	31-1	1700	Wed	Mark on freq. Nothing else on any remote receiver. This one not usually heard at this time	CW	(MPJ)

<b>M12</b>	7931	31-1	1720	Wed	Marks here too. Possibly transmitter problems or attempts at jamming?	CW	(MPJ)
<b>M12</b>	9176	31-1	1800	Wed	257 257 257 1 2403 149 2403 149 00031 75179 40665 ... 37590 18688 41519 000 000	CW	(AB)
<b>M12</b>	7931	31-1	1820	Wed	257 257 257 1 2403 149 2403 149 00031 75179 40665 ... 37590 18688 41519 000 000	CW	(AB/MPJ)
<b>M12</b>	6904	31-1	1840	Wed	257 257 257 1 2403 149 2403 149 00031 75179 40665 ... 37590 18688 41519 000 000	CW	(AB/MPJ)
<b>M12</b>	8047	31-1	1900	Wed	463 463 463 1 8328 141 8328 141 64541 48033 37718 ... 92669 13315 84860 000 000	CW	(AB/MPJ)
<b>M12</b>	6802	31-1	1920	Wed	463 463 463 1 8328 141 8328 141 64541 48033 37718 ... 92669 13315 84860 000 000	CW	(AB/MPJ)
<b>M12</b>	5788	31-1	1940	Wed	463 463 463 1 8328 141 8328 141 64541 48033 37718 ... 92669 13315 84860 000 000	CW	(AB/MPJ)
<b>M12</b>	6864	31-1	2050	Wed	875 875 875 000	CW	(AB/RL)
<b>M12</b>	5764	31-1	2110	Wed	875 875 875 000	CW	(AB)
<b>M12</b>	5361	31-1	2200	Wed	340 340 340 000	CW	(AB)
<b>M12</b>	4461	31-1	2220	Wed	340 340 340 000	CW	(AB)
<b>M14</b>	5825	1-1	0000	Mon	376 241 241 40 40 = = 34526 36452 73654 ... 87465 39826 18726 = = 241 241 40 40 00000	MCW	(AB)
<b>M14</b>	4024	2-1	1600	Tue	725 725 725 00000	MCW	(AB)
<b>M14</b>	5374	5-1	1700	Fri	382 382 382 00000	MCW	(AB/MPJ)
<b>M14</b>	4975	5-1	1800	Fri	382 382 382 00000	MCW	(AB/MPJ)
<b>M14</b>	5430	6-1	0800	Sat	171 707 707 23 23 34256 76845 89056 ... 56564 89043 77277 707 707 23 23 00000	MCW	(AB)
<b>M14</b>	5560	6-1	0900	Sat	171 707 707 23 23 34256 76845 89056 ... 56564 89043 77277 707 707 23 23 00000	MCW	(AB)
<b>M14</b>	5240	7-1	2300	Sun	376 263 263 47 47 = = 24315 75648 94857 ... 16425 63524 17652 = = 263 263 47 47 00000	MCW	(AB)
<b>M14</b>	5825	8-1	0000	Mon	376 263 263 47 47 = = 24315 75648 94857 ... 16425 63524 17652 = = 263 263 47 47 00000	MCW	(AB)
<b>M14</b>	4636	9-1	1820	Tue	186 725 25 45323 09898 65423 ... 89346 01070 67812 725 25 00000	MCW	(MPJ/HFD)
<b>M14</b>	4761	10-1	1920	Wed	748 707 707 23 23 34256 76845 89056 ... 56564 89043 77277 707 707 23 23 00000	MCW	(AB/MPJ)
<b>M14</b>	5430	13-1	0800	Sat	171 732 732 32 32 98878 54347 07091 ... 77277 56734 98890 732 732 32 32 00000	MCW	(AB)
<b>M14</b>	5560	13-1	0900	Sat	171 732 732 32 32 98878 54347 07091 ... 77277 56734 98890 732 732 32 32 00000	MCW	(AB)
<b>M14</b>	5947	14-1	0600	Sun	382 382 382 00000	CW	(HFD)
<b>M14</b>	6767	14-1	0700	Wed	382 382 382 00000	CW	(HFD)
<b>M14</b>	5240	14-1	2300	Sun	376 725 725 25 25 45323 09898 65423 ... 89346 01070 67812 725 725 25 25 00000	MCW	(AB)
<b>M14</b>	5825	15-1	0000	Mon	376 725 725 25 25 45323 09898 65423 ... 89346 01070 67812 725 725 25 25 00000	MCW	(AB)
<b>M14</b>	18041	15-1	0500	Mon	952 683 683 50 50 = = 22840 33340 16868 ... 95297 88795 91781 = = 683 683 50 50 (no nulls)	CW	(AB-CHN)
<b>M14</b>	4024	16-1	1600	Tue	725 725 725 00000	MCW	(MPJ)
<b>M14</b>	10755	17-1	1408	Wed	975 806 806 23 23 = = 57231 64000 51763 ... 50312 = = 806 806 23 23 00000	CW	(AAI)
<b>M14</b>	5374	19-1	1700	Fri	382 382 382 00000, At 1709 UTC: 327 77808 62111 90539 8H then transmitter off	MCW	(AB/MPJ)
<b>M14</b>	4975	19-1	1800	Fri	Carrier till 1804 UTC, then 382 382 382 00000	MCW	(AB)
<b>M14</b>	5430	20-1	0800	Sat	171 732 732 32 32 98878 54347 07091 ... 77277 56734 98890 732 732 32 32 00000	MCW	(AB)
<b>M14</b>	5430	20-1	0813	Sat	7583 22285 16516 23564 76695 35296 05405 75229 73601 61370 71150 154S then off	MCW	(AB)
<b>M14</b>	5560	20-1	0900	Sat	171 732 732 32 32 98878 54347 07091 ... 77277 56734 98890 732 732 32 32 00000	MCW	(AB)
<b>M14</b>	5240	21-1	2300	Sun	376 456 456 25 25 34253 75648 07912 ... 84635 03564 73524 456 456 25 25 00000	MCW	(AB)
<b>M14</b>	5825	22-1	0000	Mon	376 456 456 25 25 34253 75648 07912 ... 84635 03564 73524 456 456 25 25 00000	MCW	(AB)
<b>M14</b>	4636	23-1	1820	Tue	186 775 32 55676 43289 91825 ... 39285 39285 ... 65435 775 32 00000	MCW	(MPJ)
<b>M14</b>	4761	24-1	1920	Wed	748 775 775 32 32 55676 43289 91825 ... 39285 57913 66432 775 775 32 32 00000. 32 groups announced, 25 sent	MCW	(AB/MPJ)

<b>M14</b>	17458	25-1	0930	Thu	617 617 617 00000	CW	(AB/MPJ)
<b>M14</b>	5430	27-1	0800	Sat	171 732 732 32 32 98878 54347 07091 ... 77277 56734 98890 732 732 32 32 00000	MCW	(AB)
<b>M14</b>	5560	27-1	0900	Sat	171 732 732 32 32 98878 54347 07091 ... 77277 56734 98890 732 732 32 32 00000	MCW	(AB)
<b>M14</b>	6767	28-1	0700	Sun	382 382 382 00000	MCW	(AB)
<b>M14</b>	5240	28-1	2300	Sun	376 732 732 32 32 98878 54347 07091 ... 77277 56734 98890 732 732 32 32 00000	MCW	(AB)
<b>M14</b>	5825	29-1	0000	Mon	376 732 732 32 32 98878 54347 07091 ... 77277 56734 98890 732 732 32 32 00000	MCW	(AB)
<b>M14</b>	18041	31-1	0500	Wed	952 348 348 60 60 = = 39198 47346 30924 ... 11506 71000 72880 = = 348 348 60 60 00000	CW	(AB-CHN)
<b>M21</b>	4788.5	3-1	0903	Wed	=009922391169204 =51799249100511800	CW	(F5JBR)
<b>M21</b>	5860	3-1	0949	Wed	=26100901160702 =991249??0?????	CW	(F5JBR)
<b>M21</b>	5860	3-1	0949	Wed	26100901160702 =991249??0?????	CW	(F5JBR)
<b>M21</b>	4221	3-1	1415	Wed	16100459212715 =16100459212715	CW	(F5JBR)
<b>M21</b>	4221	3-1	1415	Wed	=16100459212715 =16100459212715 =991717??0????? =16100459219116 =16100459219116	CW	(F5JBR)
<b>M21</b>	4349.5	3-1	1811	Wed	=992111??0????? =992112??0????? =992113??0????? =992114??0????? =992115??0?????	CW	(F5JBR)
<b>M21</b>	4349.5	3-1	1811	Wed	=992111??0????? =992112??0?????	CW	(F5JBR)
<b>M21</b>	6463	3-1	1905	Wed	=992205??0????? =992206??0?????	CW	(F5JBR)
<b>M21</b>	6463	3-1	1905	Wed	=992205??0????? =992206??0????? =992207??0????? =992208??0????? =992209??0?????	CW	(F5JBR)
<b>M21</b>	3300.5	6-1	0832	Sat	=99?1132?9????? =99?1133?9????? =99?1134?9????? =99?1135?9?????	CW	(F5JBR)
<b>M21</b>	5860.5	7-1	0838	Sun	=991138??0????? =991139??0????? =991140??0????? =991141??0????? =991142??0????? =991143??0?????	CW	(F5JBR)
<b>M21</b>	5980.5	7-1	1323	Sun	=991623??8????? =991624??8????? =991625??8????? =991626??8????? =991627??8?????	CW	(F5JBR)
<b>M21</b>	7450	11-1	0529	Thu	=10009991857875299 =10010185786129 =10005185785730 =10006185785630 =10004185042330 =10003185043830	CW	(F5JBR)
<b>M21</b>	7162	11-1	0537	Thu	=99?0837?9????? =99?0838?9????? =99?0839?9????? =99?0840?9????? =99?0841?9????? =99?0842?9?????	CW	(F5JBR)
<b>M21</b>	7162	12-1	0648	Fri	=99?0948?9????? =99?0949?9????? =99?0950?9????? =99?0951?9????? =99?0952?9????? =99?0953?9?????	CW	(F5JBR)
<b>M21</b>	6463	17-1	0807	Wed	XXX XXX 60413 DREWNEJ/HIJ 15579231 XXX XXX 60413 DREWNEJ/HIJ 15579231 K =991108??0????? =991109??0?????	CW	(JPL-J)
<b>M32</b>	12807	1-1	0908	Mon	i.p. ADFBO QHPYF GBZB EEEEE QHPYF GBZME KEÄKÄ TMLYR AVTNY BYÜGD AKWWA TNXAB K =	CW	(AB)
<b>M32</b>	5596	1-1	1857	Mon	1EN9 wkg NEZA, GR2W, BAWs, VYZI, YMCY	CW	(AnEur)
<b>M32</b>	10064	2-1	0727	Tue	OEf1 wkg LS6C: ZFT ZBC ZYK QYT4	CW	(AnEur)
<b>M32</b>	10064	2-1	0737	Tue	OEf1 wkg LS6C: QRJ NO QYT 4 K	CW	(AnEur)
<b>M32</b>	10064	2-1	0901	Tue	OEf1 wkg N8ZV, 6PAV, CMCL, 2KKI, LS6C	CW	(AnEur)
<b>M32</b>	5911	3-1	0951	Wed	XXX 8S1Q 48073 NAHAL 5855 5708 WARAQENXE 0154 6779 K	CW	(F5JBR)
<b>M32</b>	7678	10-1	1251	Wed	XXX MFT5 28812 GACHFT 9442 4705 K	CW	(F5JBR)
<b>M32</b>	5418	10-1	1536	Wed	XXX WEGI 80637 KABELXQIK 6622 9778 K	CW	(F5JBR)
<b>M32</b>	3241	10-1	1542	Wed	XXX LOMO 25470 WYLEZNOJ 1969 8020 K	CW	(F5JBR)
<b>M32</b>	3207	10-1	1546	Wed	79528 LÜDOGLAS 6106 7049 OBUWNOJ 2321 2557 K	CW	(F5JBR)
<b>M32</b>	3217	10-1	1546	Wed	79528 LÜDOGLAS 6106 7049 OBUWNOJ 2321 2557 K	CW	(F5JBR)
<b>M32</b>	3220	10-1	1546	Wed	XXX VUOZ 41957 GULOFK 1450 6897 K	CW	(F5JBR)
<b>M32</b>	3354	10-1	1546	Wed	XXX MFT5 79528 LÜDOGLAS 6106 7049 OBUWNOJ 2321 2557 K	CW	(F5JBR)
<b>M32</b>	3364	10-1	1548	Wed	XXX MFT5 26962 BREGOMED 5420 4121 K	CW	(F5JBR)
<b>M32</b>	3372	10-1	1550	Wed	XXX 01906 MOSTOFAWN 4337 0262	CW	(F5JBR)
<b>M32</b>	3354	10-1	1557	Wed	XXX MFT5 47919 BÉROGROB 5886 6075 K	CW	(F5JBR)
<b>M32</b>	3220	10-1	1602	Wed	XXX VUOZ 28058 WERTKOSTX 6621 9969 WYHMH OLXNYJ 7732 2280 K	CW	(F5JBR)
<b>M32</b>	5596	10-1	1624	Wed	1EN9 wkg VYZI: QDA? GR2W K	CW	(AnEur)
<b>M32</b>	10064	11-1	1215	Thu	BH4X wkg YO6R, 2KN8, 1S1C, MKB6, MLYC	CW	(AnEur)
<b>M32</b>	6817	14-1	0853	Sun	i.p. 71147 52064 52839 24935 76854 14023 QTC K. HEZT 164 24 14 1147 164 = 687 = 31142 19309 77373 33847 58026 ...	CW	(JPL-Sib)
<b>M32</b>	6817	14-1	0906	Sun	i.p. QTC AR H9WT 443 25 14 1201 443 = 687 950 = PPPPP	CW	(JPL-Sib)



					INNUE OHCKW (Cont'd)		
<b>M32</b>	6777	15-1	0732	Mon	i.p. 1258 = 5548 = 6293 = 7013 = 6058 = 880 K. = 8804 = 7872 = 1527 K AR	CW	(JPL-J)
<b>M32</b>	10762	17-1	0736	Wed	i.p. BK K. .... 3NN K. QTC 178 CK. Switched to RTTY. Sends RYs then into traffic	CW	(JPL-J)
<b>M32</b>	14410	17-1	0817	Wed	XXX XXX RDL RDL 66852 06414 RABOBERN 6178 9664 XXX XXX RDL RDL 66852 06414 RABOBERN 6178 9664 K	CW	(AB)
<b>M32</b>	10433	17-1	1338	Wed	XXX XXX WEGI WEGI 71988 09147 U?IBOHALL 6029 8105 K	CW	(AAI)
<b>M32</b>	10064	22-1	1148	Mon	FIZO clg ZKYP	CW	(AnEur)
<b>M32</b>	10064	22-1	1151	Mon	FIZO clg ZKYP	CW	(AnEur)
<b>M32</b>	10064	22-1	1201	Mon	FIZO clg NHCR and 7LL1 QDK QSA?	CW	(AnEur)
<b>M32</b>	10064	22-1	1316	Mon	FIZO clg ZKYP QTC 501 27 22 1615 501 = 915 = WGLSO IAGRN WZTKL UFCIN TKSOL ? WWPWT K	CW	(AnEur)
<b>M32</b>	4252.3	26-1	1027	Fri	11111 55554 88888 99999 54523 78451 ... 32783 77882 87387 K	CW	(JPL-J)
<b>M32</b>	11468	31-1	1336	Wed	XXX XXX RDL RDL 33788 12440 OBODOWOIN 6866 5717 K	CW	(AAI)
<b>M32</b>	5596	31-1	1609	Wed	LA4M wkg DCC8 and VYBF on 5693 kHz	CW	(AnEur)
<b>M32</b>	5693	31-1	1609	Wed	KTWN and DCC8 wkg LA4M on 5596 kHz	CW	(AnEur)
<b>M32a</b>	8191	5-1	0751	Fri	Russian navy Kaliningrad. REO REO REO DE RMP RMP QTC 571 41 5 1045 571 = SML = BALTIJSKOE MORE OPOWEQENIE NR 10 ShTORMOWOE ...	CW	(AB)
<b>M32a</b>	8191	7-1	0940	Sun	REO REO REO DE RMP RMP QTC 848 57 7 1233 848 = SML = BALTIJSKOE MORE ...	CW	(AB)
<b>M32a</b>	9145	8-1	0838	Mon	i.p. RDND DE RIW QSA ? K. QSU 1 QWS 8794 QSX 8270 K. RIW R K	CW	(JPL-Sib)
<b>M32a</b>	8632	10-1	0811	Wed	RJFN: Russian navy	CW	(ML4)
<b>M32a</b>	4766	22-1	1750	Mon	Russian Navy i.p. DE RMP ZZD ZZU 4766 4766 K. RMP RMP DE RKA80 RKA80 ZZD? K. VVV RKA80 RKA80 RKA80 RMP RMP ZZD ? K	CW	(AB)
<b>M32b</b>	8816	10-1	0831	Wed	rjc38 rjf94 de 26675 qth 16456 13429 qtr 0824 qbg 5800 qbd 0400 k	CW	(WP3)
<b>M32b</b>	8816	10-1	0926	Wed	rjf94 rjc38 de 08032 qto 0920 qrd XLDR XLMV qre 1055 qbd 0500 k	CW	(WP3)
<b>M41</b>	5774	24- 11- 2017	0500		C537 C537 C537 AR	CW	(ES)
<b>M41</b>	4635.5	3-1	0602	Wed	i.p. 722 194 9700 3904 0991288 10 90 0800 ABV 722 194 9700 3904 0991288 10 90 0800 WFAP	CW	(Tom)
<b>M41</b>	4788.5	3-1	0903	Wed	=9922391169204 =0099 ... 08551799239100511800 009924391807908 51799249100511800 9922391167208	CW	(F5JBR)
<b>M41</b>	10168	7-1	0727	Sun	i.p. ON8A AR ON8A WZD 5123 833 21367180 29 ABV 5123 833 21367180 29 722 511 5123 800 30 AR	CW	(JPL-Sib)
<b>M41</b>	4788.5	7-1	0746	Sun	9901 391 409544 9904 395 765644 9905 391 709944 9906 395 797944	CW	(F5JBR)
<b>M41</b>	4635.5	7-1	0806	Sun	9500398494304 and 95003984942 and 950039484506 and 9500498495307	CW	(F5JBR)
<b>M41</b>	4827	7-1	0811	Sun	9500398495308 and 9500 395 495909192 9500 398 4957 1010 kkkk	CW	(F5JBR)
<b>M41</b>	4794	7-1	0814	Sun	2024 422 1199813 = 002024 228 1814 103915 = 002024 228 1814 11115 =	CW	(F5JBR)
<b>M41</b>	5774	10-1	1208	Wed	C537 C537 C537 AR	CW	(F5JBR)
<b>M41</b>	4831	10-1	1230	Wed	5123 720 4779 7280 18 722 511 5123 800 19 5125 1855 269716019822511	CW	(F5JBR)
<b>M41</b>	6822.5	10-1	1245	Wed	1S61 1S61 1S61 1S61 AR	CW	(F5JBR)
<b>M41</b>	5774	11-1	0500	Thu	C537 C537 C537 AR	CW	(ES)
<b>M41</b>	10168	14-1	0844	Sun	i.p. ON8A AR	CW	(JPL-Sib)
<b>M41</b>	6822.5	14-1	0902	Sun	WZD 3201 833 6862 7180 57 ABV 3201 833 6862 7180 57 WZD 722 511 3201 600 58 WZD 3203 189 7857 7280 58 ABV	CW	(JPL-Sib)
<b>M41</b>	5774	17-1	0500	Wed	C537 C537 C537 AR	CW	(ES)
<b>M41</b>	5774	18-1	0500	Thu	C537 C537 C537 AR	CW	(ES)
<b>M41</b>	5774	25-1	0500	Thu	C537 C537 C537 AR	CW	(ES)
<b>M42</b>	13862	17-1	0813	Wed	Russian Intel.	MFSK-16	(AB)
<b>M42b</b>	2460	3-1	1455	Wed	WVXZ wkg OBRA. Opchat in Morse, messages in FSK 50/500	CW	(F5JBR)
<b>M42b</b>	2460	3-1	1455	Wed	WVXZ wkg OBRA. Ops chat in CW. Messages in FSK 50/500. Header: 911 100 07 0815 2393	CW	(F5JBR)
<b>M42b</b>	4829	7-1	0822	Sun	ZGFV wkg BOPK. Ops chat in CW. Messages in FSK 50/500. Header: 211 100 07 0820 ....	CW	(F5JBR)

<b>M42b</b>	4012	10-1	0715	Wed	VGTR wkg NLAT. Ops chat in CW. Messages in FSK 50/500. QSX 3838 kHz	CW	(F5JBR)
<b>M42b</b>	5386	10-1	1009	Wed	KPML wkg BDUW. Ops chat in CW. Messages in FSK 50/500.	CW	(F5JBR)
<b>M42b</b>	6905	10-1	1250	Wed	IMKA wkg WL9P. Ops chat in CW. Messages in FSK 50/500.	CW	(F5JBR)
<b>M42b</b>	6925	12-1	0645	Fri	LKDW Wkg PRAT. Ops chat in CW. Messages in FSK 50/500.	CW	(F5JBR)
<b>M42b</b>	12219	24-1	0401	Wed	Ops chat in CW: QSA4 QTC2 K, then into a test slip in FSK 100/500: 64646464646464646464	FSK 100/500	(CR2)
<b>M51a</b>	6825	2-1	1144	Tue	FAV22: French Morse Practice i.p. JWU=CVWY 43692 BCHWJ ...	CW	(MPJ)
<b>M51a</b>	3881	3-1	1305	Wed	FAV22: French Morse Practice. Plain & punctuation	CW	(MPJ)
<b>M51a</b>	6825	31-1	1819	Wed	i.p. ZBCYQ LSOPD VCNWM 93502 JDIWK ?.,, ZAUSH BDHWA BXVSG GDYWL POFKE NDJAI BVCXA MQIKD ...	CW	(AB)
<b>M89</b>	10689	1-1	0912	Mon	V QW2A (x3) DE G5VD (x2)	CW	(JPL)
<b>M89</b>	5743	1-1	0927	Mon	V UISD (x3) DE CBFG (x2) //9191	CW	(JPL)
<b>M89</b>	9131	1-1	0927	Mon	V UISD (x3) DE CBFG (x2) //5743	CW	(JPL)
<b>M89</b>	4532	1-1	1138	Mon	i.p. = 438/5718/5393/63/63/7636/369/A AR V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
<b>M89</b>	4532	1-1	1207	Mon	V M8JF (x3) DE RIS9 (x2) //4870	CW	(JPL)
<b>M89</b>	4870	1-1	1207	Mon	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
<b>M89</b>	4870	1-1	1840	Mon	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
<b>M89</b>	4852	1-1	1851	Mon	V QW2A (x3) DE G5VD (x2)	CW	(JPL)
<b>M89</b>	4620	2-1	0020	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //4860 and 6840	CW	(JPL)
<b>M89</b>	4860	2-1	0020	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //4620 and 6840	CW	(JPL)
<b>M89</b>	6840	2-1	0020	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //4620 and 4860	CW	(JPL)
<b>M89</b>	10689	2-1	0022	Tue	V QW2A (x3) DE G5VD (x2)	CW	(JPL)
<b>M89</b>	4720	2-1	0030	Tue	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K	CW	(JPL)
<b>M89</b>	5276	2-1	0105	Tue	i.p. 5T3N 4AT3 T5A3 7D3U 7D3A 7U7D ... AR K. R U 7G GA	CW	(JPL)
<b>M89</b>	5291	2-1	0108	Tue	i.p. NR 7G NR 010 CK 99 87 0102 0845 RMKS 3722 TO 3729 K	CW	(JPL)
<b>M89</b>	5625	2-1	0118	Tue	i.p. 57D4 AT5N ...A5 D756 D743 ND.T D3U7	CW	(JPL)
<b>M89</b>	5657	2-1	0122	Tue	i.p. /EX 092 RMKS 1310 TO 1880 K. F = = HBT7/YBU. AR	CW	(JPL)
<b>M89</b>	5847	2-1	0128	Tue	i.p. 4UU5 7AUD DUUN N4.7 T3.T 35T4 564T	CW	(JPL)
<b>M89</b>	4515	2-1	0757	Tue	i.p. 6TT6 677D 7347 ND4D 4653 DTT3 5NN7 ... AR K. N U MSG AGN	CW	(JPL)
<b>M89</b>	4336	2-1	0802	Tue	i.p. DDAT 7UAD ATU6 A53D ... AR K. R R	CW	(JPL)
<b>M89</b>	4310	2-1	0806	Tue	i.p. U6U3 57D5 U4DT 43N6 7A35 ...	CW	(JPL)
<b>M89</b>	4231	2-1	0810	Tue	i.p. RMKS 3009 to 3973 K. .... 43N D 76D3 UD III ? 3DTA ANDT UT57 U6D5 ...	CW	(JPL)
<b>M89</b>	4087	2-1	0813	Tue	i.p. R R NR 111W = 437. AR K. RPT 17. = 4N3A AR K K	CW	(JPL)
<b>M89</b>	6840	2-1	0820	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //10640	CW	(JPL)
<b>M89</b>	10640	2-1	0820	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //6840	CW	(JPL)
<b>M89</b>	4610	2-1	0829	Tue	i.p. 45NA 7UAN A4UA D3AN ... AR K R	CW	(JPL)
<b>M89</b>	8350	2-1	0830	Tue	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K	CW	(JPL)
<b>M89</b>	4620	2-1	1420	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //4860 and 6840	CW	(JPL)
<b>M89</b>	4860	2-1	1420	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //4620 and 6840	CW	(JPL)
<b>M89</b>	6840	2-1	1420	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //4620 and 4860	CW	(JPL)
<b>M89</b>	4125	2-1	1426	Tue	V UISD (x3) DE CBFG (x2) //5479	CW	(JPL)
<b>M89</b>	5479	2-1	1426	Tue	V UISD (x3) DE CBFG (x2) //4125	CW	(JPL)
<b>M89</b>	4720	2-1	1430	Tue	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K //5150	CW	(JPL)
<b>M89</b>	5150	2-1	1430	Tue	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K //4720	CW	(JPL)
<b>M89</b>	4012	2-1	1730	Tue	i.p. D476 D75N AR QSL ? DE ZIETYT K. R QSL DE BKJIF DGDG OJO O	CW	(JPL)
<b>M89</b>	3238	2-1	1739	Tue	V M8JF (x3) DE RIS9 (x2) (IP - Cont'd) (// 4870	CW	(JPL)
<b>M89</b>	4870	2-1	1739	Tue	V M8JF (x3) DE RIS9 (x2) //3238	CW	(JPL)
<b>M89</b>	4904	2-1	1744	Tue	V WE3S (x3) DE CF5T (x2)	CW	(JPL)
<b>M89</b>	10589	3-1	0607	Wed	V WE3S (x3) DE CF5T (x2)	CW	(JPL)
<b>M89</b>	5743	3-1	0626	Wed	V UISD (x3) DE CBFG (x2) //9131	CW	(JPL)
<b>M89</b>	9131	3-1	0626	Wed	V UISD (x3) DE CBFG (x2) //5743	CW	(JPL)
<b>M89</b>	8218	3-1	0631	Wed	i.p. QSA ? K. R HR WK NR 2217 K. NIL SK GB	CW	(JPL)
<b>M89</b>	8157	3-1	0634	Wed	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
<b>M89</b>	7565	3-1	0638	Wed	i.p. 3N43 AD75 767. 7U43 73UD ... AR K	CW	(JPL)

M89	3238	3-1	0926	Wed	M8JF (x3) de RIS9 (x2) V	CW	(F5JBR-J)
M89	3238	3-1	1116	Wed	V M8JF (x3) DE RIS9 (x2) //4870	CW	(JPL)
M89	4870	3-1	1116	Wed	V M8JF (x3) DE RIS9 (x2) //3238	CW	(JPL)
M89	4904	3-1	1118	Wed	V WE3S (x3) DE CF5T (x2)	CW	(JPL)
M89	3238	3-1	1802	Wed	M8JF (x3) de RIS9 (x2) V //3238, 4870, 4880	CW	(F5JBR-J)
M89	4870	3-1	1802	Wed	M8JF (x3) de RIS9 (x2) V //3238, 4870, 4880	CW	(F5JBR-J)
M89	4880	3-1	1802	Wed	M8JF (x3) de RIS9 (x2) V //3238, 4870, 4880	CW	(F5JBR-J)
M89	3238	3-1	1815	Wed	M8JF (x3) de RIS9 (x2) V //3238, 4870, 4880	CW	(F5JBR-J)
M89	4870	3-1	1815	Wed	M8JF (x3) de RIS9 (x2) V //3238, 4870, 4880	CW	(F5JBR-J)
M89	4880	3-1	1815	Wed	M8JF (x3) de RIS9 (x2) V //3238, 4870, 4880	CW	(F5JBR-J)
M89	4904	3-1	1816	Wed	WE3S (x3) de CF5T (x2) V	CW	(F5JBR-J)
M89	4326	3-1	1917	Wed	FT6V (x3) de SE4R (2) V	CW	(F5JBR-J)
M89	4620	3-1	1921	Wed	Q2M (x3) de NYZ (x2) VVV and Q2M (x3) de NYZ (x2) QSA ?	CW	(F5JBR-J)
M89	10589	4-1	0720	Thu	WE3S (x3) de CF5T (x2) V	CW	(F5JBR-J)
M89	8157	4-1	0730	Thu	M8JF (x3) de RIS9 (x2) V	CW	(F5JBR-J)
M89	6874	4-1	0738	Thu	M8JF (x3) de RIS9 (x2) V //8157 kHz	CW	(F5JBR-J)
M89	10589	4-1	0817	Thu	V WE3S (x3) DE CF5T (x2)	CW	(JPL)
M89	9131	4-1	0823	Thu	V UISD (x3) DE CBFG (x2)	CW	(JPL)
M89	4870	4-1	0827	Thu	V M8JF (x3) DE RIS9 (x2) //8157	CW	(JPL)
M89	8157	4-1	0827	Thu	V M8JF (x3) DE RIS9 (x2) //4870	CW	(JPL)
M89	6814	4-1	0831	Thu	VVV KUCG DE 4WBT K K QSA 1 QSY NR 5 K K QSA 1 QSY QSY NR 5 QSY NR 5 K K	CW	(JPL)
M89	5743	4-1	0907	Thu	V UISD (x3) DE CBFG (x2) //9131	CW	(JPL)
M89	9131	4-1	0907	Thu	V UISD (x3) DE CBFG (x2) //5743	CW	(JPL)
M89	7293	4-1	0916	Thu	i.p. TUTA TTAT T47T T446 D537 ... LK8J DE ASXB	CW	(JPL)
M89	7077	4-1	0930	Thu	i.p. 7346 6T57 5DT7 TN3A AT34 T7A4 ...AR K. NR BOZ QSY TO USB K	CW	(JPL)
M89	6241	4-1	0938	Thu	i.p. 6ATD N7TN 46DN 67DT D76U 4AD4 45DU ... AR K R RNR	CW	(JPL)
M89	5543	4-1	0952	Thu	i.p. 7DUA N546 5765 3TAN 547T ... AR	CW	(JPL)
M89	5061	4-1	0958	Thu	i.p. 3TDA 7A54 5673 TAD6 TUA5 4DA3 ...	CW	(JPL)
M89	3238	4-1	1432	Thu	V M8JF (x3) DE RIS9 (x2) //4870	CW	(JPL)
M89	4870	4-1	1432	Thu	V M8JF (x3) DE RIS9 (x2) //3238	CW	(JPL)
M89	4326	4-1	1434	Thu	V FT6V (x3) DE SE4R (x2)	CW	(JPL)
M89	4125	4-1	1444	Thu	V UISD (x3) DE CBFG (x2) //5479	CW	(JPL)
M89	5479	4-1	1444	Thu	V UISD (x3) DE CBFG (x2) //4125	CW	(JPL)
M89	4131	4-1	1446	Thu	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	10589	5-1	0822	Fri	V WE3S (x3) DE CF5T (x2)	CW	(JPL)
M89	5743	5-1	0827	Fri	V UISD (x3) DE CBFG (x2) //9131	CW	(JPL)
M89	9131	5-1	0827	Fri	V UISD (x3) DE CBFG (x2) //5743	CW	(JPL)
M89	4870	5-1	0829	Fri	V M8JF (x3) DE RIS9 (x2) //6874 and 8157	CW	(JPL)
M89	6874	5-1	0829	Fri	V M8JF (x3) DE RIS9 (x2) //4870 and 8157	CW	(JPL)
M89	8157	5-1	0829	Fri	V M8JF (x3) DE RIS9 (x2) //4870 and 6874	CW	(JPL)
M89	6874	6-1	0825	Sat	M8JF (x3) de RIS9 (x2) V //8157	CW	(F5JBR-J)
M89	3238	6-1	0845	Sat	M8JF (x3) de RIS9 (x2) V //4870 //8157	CW	(F5JBR-J)
M89	10589	6-1	1012	Sat	V WE3S (x3) DE CF5T (x2)	CW	(JPL)
M89	4870	6-1	1015	Sat	V M8JF (x3) DE RIS9 (x2) //3238	CW	(JPL)
M89	5743	6-1	1017	Sat	V UISD (x3) DE CBFG (x2) //9131	CW	(JPL)
M89	9131	6-1	1017	Sat	V UISD (x3) DE CBFG (x2) //5743	CW	(JPL)
M89	6697	6-1	1019	Sat	i.p. 7A65 T563 43DN 43T6 3A7D ... 2P =	CW	(JPL)
M89	5750	6-1	1106	Sat	V MYP (x3) DE MHW (x2) II F DE EP7 (x3) .235 QSV K //9131	CW	(JPL)
M89	4199	6-1	1114	Sat	i.p. 6A7U N4AT DN44 7U5D 735T ...	CW	(JPL)
M89	6840	7-1	0220	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //10640	CW	(JPL)
M89	10640	7-1	0220	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //6840	CW	(JPL)
M89	10589	7-1	0225	Sun	V WE3S (x3) DE CF5T (x2)	CW	(JPL)
M89	9171	7-1	0228	Sun	7VBT DE V9KU ... 5673 TAUU D47D 6ATD DTUD ... AS	CW	(JPL)
M89	6874	7-1	0239	Sun	V M8JF (x3) DE RIS9 (x2) //8157	CW	(JPL)
M89	8157	7-1	0239	Sun	V M8JF (x3) DE RIS9 (x2) //6874	CW	(JPL)
M89	10589	7-1	0813	Sun	V WE3S (x3) DE CF5T (x2)	CW	(JPL)
M89	6874	7-1	0817	Sun	V M8JF (x3) DE RIS9 (x2) //8157	CW	(JPL)
M89	8157	7-1	0817	Sun	V M8JF (x3) DE RIS9 (x2) //6874	CW	(JPL)
M89	6840	7-1	0820	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //8360 and 10640	CW	(JPL)
M89	8360	7-1	0820	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //6840 and 10640	CW	(JPL)
M89	10640	7-1	0820	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //6840 and 8360	CW	(JPL)
M89	6540	7-1	0829	Sun	i.p. 74NA UT37 34N7 N6U3 7A65 T563 ... II = 3A75 7UAN	CW	(JPL)

					37N4 A5D7 UN7A ...		
M89	8350	7-1	0830	Sun	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K	CW	(JPL)
M89	5179	7-1	0834	Sun	WKN3 DE SD78 ... R RPT 68W = 4A63 AR K	CW	(JPL)
M89	4440	7-1	0849	Sun	i.p. 6T7N 5D74 T54A 6734 D574 U5A7 ... = = 645A 5U47 74DA U6U7 3N54 AR K	CW	(JPL)
M89	4125	7-1	1343	Sun	V UISD (x3) DE CBFG (x2) //5479	CW	(JPL)
M89	5479	7-1	1343	Sun	V UISD (x3) DE CBFG (x2) //4125	CW	(JPL)
M89	4870	7-1	1345	Sun	V M8JF (x3) DE RIS9 (x2) //3238	CW	(JPL)
M89	4433	7-1	1349	Sun	i.p. 5UDN 764A 3D75 7NA4 3D64 63D5 ... AR	CW	(JPL)
M89	4326	7-1	1732	Sun	V FT6V (x3) DE SE4R (x2)	CW	(JPL)
M89	4904	7-1	1735	Sun	V WE3S (x3) DE CF5T (x2)	CW	(JPL)
M89	3226	7-1	1747	Sun	i.p. V WJAB (x3) DE GMQ8 (x2) V 2MSU (x3) DE ZAN6 QSA ? K IEC - 0886 AR K	CW	(JPL)
M89	3238	7-1	1757	Sun	V M8JF (x3) DE RIS9 (x2) //4870	CW	(JPL)
M89	3564	7-1	1821	Sun	i.p. U4ND N643 AD47 D75A D37A ND3U ...	CW	(JPL)
M89	4199	7-1	2108	Sun	i.p. UN4D 5A6N 7D53 NDU4 45TN TAU7 ... III = 3DAU ANUT AN47 DU7A ...	CW	(JPL)
M89	4620	7-1	2120	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //4860	CW	(JPL)
M89	4860	7-1	2120	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //4620	CW	(JPL)
M89	3238	7-1	2127	Sun	V M8JF (x3) DE RIS9 (x2) //4870	CW	(JPL)
M89	4870	7-1	2127	Sun	V M8JF (x3) DE RIS9 (x2) //3238	CW	(JPL)
M89	4904	7-1	2128	Sun	V WE3S (x3) DE CF5T (x2)	CW	(JPL)
M89	10589	8-1	0846	Mon	V WE3S (x3) DE CF5T (x2)	CW	(JPL)
M89	4870	8-1	0856	Mon	V M8JF (x3) DE RIS9 (x2) //8157	CW	(JPL)
M89	5172	8-1	0856	Mon	i.p. CBE8 QSA 2 QSA ? K. NIL SK CL DE 9PIK QSA 2 QSA ? K. NIL SK GB CL	CW	(JPL)
M89	8157	8-1	0856	Mon	V M8JF (x3) DE RIS9 (x2) //4870	CW	(JPL)
M89	6538	8-1	0858	Mon	i.p. 1307 7885 2944 0726 8599 9442 0702 9787 0579 8537 ... 1148 7915 III = 7604	CW	(JPL)
M89	5835	8-1	0926	Mon	V FT6V (x3) DE SE4R (x2)	CW	(JPL)
M89	5743	8-1	0929	Mon	V UISD (x3) DE CBFG (x2) //9131	CW	(JPL)
M89	9131	8-1	0929	Mon	V UISD (x3) DE CBFG (x2) //5743	CW	(JPL)
M89	3238	8-1	1552	Mon	V M8JF (x3) DE RIS9 (x2) //4870	CW	(JPL)
M89	4870	8-1	1552	Mon	V M8JF (x3) DE RIS9 (x2) //3238	CW	(JPL)
M89	4125	8-1	1554	Mon	V UISD (x3) DE CBFG (x2) //5479	CW	(JPL)
M89	5479	8-1	1554	Mon	V UISD (x3) DE CBFG (x2) //4125	CW	(JPL)
M89	4326	8-1	1600	Mon	V FT6V (x3) DE SE4R (x2)	CW	(JPL)
M89	4904	8-1	1605	Mon	V WE3S (x3) DE CF5T (x2) (	CW	(JPL)
M89	5555	8-1	1818	Mon	i.p. R RPT 87W D634 D634 QSL ? K. R RPT 3.W TO 39W K	CW	(JPL)
M89	4904	8-1	2305	Mon	V WE3S (x3) DE CF5T (x2) Note: Silent at 2306z - Switched to 10589 khz	CW	(JPL)
M89	10589	8-1	2306	Mon	V WE3S (x3) DE CF5T (x2) Note: Switched from 4904	CW	(JPL)
M89	6854	8-1	2319	Mon	V M8JF (x3) DE RIS9 (x2) //8157	CW	(JPL)
M89	8157	8-1	2319	Mon	V M8JF (x3) DE RIS9 (x2) //6854	CW	(JPL)
M89	4860	8-1	2320	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //6840	CW	(JPL)
M89	6840	8-1	2320	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //4860	CW	(JPL)
M89	8073	9-1	0002	Tue	i.p. VV 2AII DE P8GZ NOTE KP VV 2AII DE P8GZ NOTE KP IIII HR NR 407 IEEEIIII K	CW	(JPL)
M89	10589	9-1	0349	Tue	V WE3S (x3) DE CF5T (x2)	CW	(JPL)
M89	8157	9-1	0351	Tue	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	7103	9-1	0402	Tue	(= 5011 AR K. R OK K. R R OK K. R OK QSL 1203 K. R R HR NR 1.2 K. R NIL SK GB	CW	(JPL)
M89	9131	9-1	0758	Tue	UISD (x3) de CBFG (x2) V	CW	(F5JBR-J)
M89	10589	9-1	0919	Tue	V WE3S (x3) DE CF5T (x2)	CW	(JPL)
M89	6840	9-1	0920	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //10640	CW	(JPL)
M89	10640	9-1	0920	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //6840	CW	(JPL)
M89	4870	9-1	0924	Tue	V M8JF (x3) DE RIS9 (x2) //8157	CW	(JPL)
M89	8157	9-1	0924	Tue	V M8JF (x3) DE RIS9 (x2) //4870	CW	(JPL)
M89	5743	9-1	0925	Tue	V UISD (x3) DE CBFG (x2) //9131	CW	(JPL)
M89	9131	9-1	0925	Tue	V UISD (x3) DE CBFG (x2) //5743	CW	(JPL)
M89	3238	9-1	1020	Tue	M8JF (x3) de RIS9 (x2) V	CW	(F5JBR-J)
M89	3565	9-1	1025	Tue	WKN3 de SD78 É NR 08/EX 1825 RMKS CQ = G1LQ/NR4M AR	CW	(F5JBR-J)
M89	3346	9-1	1031	Tue	DPT5 (x3) de BR7D (x2) V	CW	(F5JBR-J)
M89	4880	9-1	1339	Tue	M8JF (x3) de RIS9 (x2) V //3238 //4238	CW	(F5JBR-J)
M89	3238	9-1	1418	Tue	V M8JF (x3) DE RIS9 (x2) //4238 and 4870 and 4880	CW	(JPL)
M89	4238	9-1	1418	Tue	V M8JF (x3) DE RIS9 (x2) //4338 and 4870 and 4880	CW	(JPL)
M89	4870	9-1	1418	Tue	V M8JF (x3) DE RIS9 (x2) //3238 and 4238 and 4880	CW	(JPL)



M89	4880	9-1	1418	Tue	V M8JF (x3) DE RIS9 (x2) //3238 and 4238 and 4870	CW	(JPL)
M89	4125	9-1	1435	Tue	CBFG i.p. AR 3 ? 3. 64 ? ? 3FM 10.60 230.4 ?29748.3840. = 4FM FM VV HR SVC GA //5479	CW	(JPL)
M89	5479	9-1	1435	Tue	V UISD (x3) DE CBFG (x2) //4125	CW	(JPL)
M89	4326	9-1	1442	Tue	V FT6V (x3) DE SE4R (x2)	CW	(JPL)
M89	3238	11-1	0945	Thu	V M8JF (x3) DE RIS9 (x2) //4870	CW	(JPL)
M89	4870	11-1	0945	Thu	V M8JF (x3) DE RIS9 (x2) //3238	CW	(JPL)
M89	10589	11-1	0947	Thu	V WE3S (x3) DE CF5T (x2)	CW	(JPL)
M89	5743	11-1	0948	Thu	V UISD (x3) DE CBFG (x2) //9131	CW	(JPL)
M89	9131	11-1	0948	Thu	V UISD (x3) DE CBFG (x2) //5743	CW	(JPL)
M89	4125	11-1	1438	Thu	V UISD (x3) DE CBFG (x2) //5479	CW	(JPL)
M89	5479	11-1	1438	Thu	V UISD (x3) DE CBFG (x2) //4125	CW	(JPL)
M89	3238	11-1	1446	Thu	V M8JF (x3) DE RIS9 (x2) //4870	CW	(JPL)
M89	4870	11-1	1446	Thu	V M8JF (x3) DE RIS9 (x2) //3238	CW	(JPL)
M89	4165	11-1	1447	Thu	i.p. 45904/45904 R NO NO = 4i/45904 R NO NO 45904/45N04 R	CW	(JPL)
M89	4326	11-1	1514	Thu	V QW2A (x3) DE G5VD (x2)	CW	(JPL)
M89	4326	11-1	2126	Thu	V QW2A (x3) DE G5VD (x2)	CW	(JPL)
M89	3238	12-1	1151	Fri	V M8JF (x3) DE RIS9 (x2) //4870	CW	(JPL)
M89	4870	12-1	1151	Fri	V M8JF (x3) DE RIS9 (x2) //3238	CW	(JPL)
M89	4125	12-1	1155	Fri	V 737?DU (x3) DE N4NU74FMA (x2) //5479 Note: problems with round slip	CW	(JPL)
M89	5479	12-1	1155	Fri	V 737?DU (x3) DE N4NU74FMA (x2) //4125 Note: problems with round slip	CW	(JPL)
M89	5177	12-1	1200	Fri	V JKD J (x3) DE SLBC (x2)	CW	(JPL)
M89	4125	12-1	1842	Fri	UISD (x3) de CBFG (x2) V	CW	(F5JBR-J)
M89	4326	12-1	1853	Fri	QW2A (x3) de G5VD (x2) V	CW	(F5JBR-J)
M89	4904	12-1	1856	Fri	QW2A (x3) de G5VD (x2) V //4326	CW	(F5JBR-J)
M89	4326	12-1	2134	Fri	V QW2A (x3) DE G5VD (x2) //4904	CW	(JPL)
M89	4904	12-1	2134	Fri	V QW2A (x3) DE G5VD (x2) //4326	CW	(JPL)
M89	4125	12-1	2138	Fri	V UISD (x3) DE CBFG (x2)	CW	(JPL)
M89	10589	13-1	0737	Sat	V QW2A (x3) DE G5VD (x2)	CW	(JPL)
M89	6874	13-1	0742	Sat	V M8JF (x3) DE RIS9 (x2) //8157	CW	(JPL)
M89	8157	13-1	0742	Sat	V M8JF (x3) DE RIS9 (x2) //6874	CW	(JPL)
M89	9131	13-1	0744	Sat	V UISD (x3) DE CBFG (x2)	CW	(JPL)
M89	3238	13-1	1232	Sat	V M8JF (x3) DE RIS9 (x2) //4870	CW	(JPL)
M89	4870	13-1	1232	Sat	V M8JF (x3) DE RIS9 (x2) //3238	CW	(JPL)
M89	4125	13-1	1234	Sat	V UISD (x3) DE CBFG (x2) //5479	CW	(JPL)
M89	5479	13-1	1234	Sat	V UISD (x3) DE CBFG (x2) //4125	CW	(JPL)
M89	4326	13-1	1245	Sat	V QW2A (x3) DE G5VD (x2) //4904	CW	(JPL)
M89	4904	13-1	1245	Sat	V QW2A (x3) DE G5VD (x2) //4326	CW	(JPL)
M89	6857	14-1	0909	Sun	U3T5 3UD3 47D5 AD74 AN56 AR QSL ? K RPT PBL NR 065 CK 9. 96 0114 1700 K	CW	(JPL)
M89	10589	14-1	0946	Sun	V QW2A (x3) DE G5VD (x2)	CW	(JPL)
M89	5743	14-1	0947	Sun	V UISD (x3) DE CBFG (x2) //9131	CW	(JPL)
M89	9131	14-1	0947	Sun	V UISD (x3) DE CBFG (x2) //5743	CW	(JPL)
M89	3238	14-1	0948	Sun	V M8JF (x3) DE RIS9 (x2) //4870	CW	(JPL)
M89	4870	14-1	0948	Sun	V M8JF (x3) DE RIS9 (x2) //3238	CW	(JPL)
M89	4904	14-1	1624	Sun	V QW2A (x3) DE G5VD (x2)	CW	(JPL)
M89	4125	14-1	1625	Sun	V UISD (x3) DE CBFG (x2) //5479	CW	(JPL)
M89	5479	14-1	1625	Sun	V UISD (x3) DE CBFG (x2) //4125	CW	(JPL)
M89	6874	15-1	0100	Mon	V M8JF (x3) DE RIS9 (x2) //8157	CW	(JPL)
M89	8157	15-1	0100	Mon	V M8JF (x3) DE RIS9 (x2) //6874	CW	(JPL)
M89	10589	15-1	0643	Mon	V QW2A (x3) DE G5VD (x2)	CW	(JPL)
M89	9131	15-1	0649	Mon	V UISD (x3) DE CBFG (x2)	CW	(JPL)
M89	5412	15-1	0657	Mon	i.p. 4ANN 6NAD 34D7 D55N 4U7A ... AR K. R 13W 6N57 K. VVV Q EEE QSL ? ZH QSL ? K QSL ? K K R U GA (0705z)	CW	(JPL)
M89	6269	15-1	0712	Mon	i.p. R 1505 K. BT KH/RX. K. R FT TIME 1505 K. R BT CH/RX AR K	CW	(JPL)
M89	6842	15-1	0727	Mon	i.p. AD3A T4D5 7T5A N5D7 T5A4 ...	CW	(JPL)
M89	3238	15-1	1549	Mon	V M8JF (x3) DE RIS9 (x2) //4870	CW	(JPL)
M89	4870	15-1	1549	Mon	V M8JF (x3) DE RIS9 (x2) //3238	CW	(JPL)
M89	4904	15-1	1550	Mon	V QW2A (x3) DE G5VD (x2)	CW	(JPL)
M89	4125	15-1	1552	Mon	V UISD (x3) DE CBFG (x2) //5479	CW	(JPL)
M89	5479	15-1	1552	Mon	V UISD (x3) DE CBFG (x2) //4125	CW	(JPL)
M89	10589	16-1	1018	Tue	V QW2A (x3) DE G5VD (x2)	CW	(JPL)
M89	5743	16-1	1019	Tue	V UISD (x3) DE CBFG (x2) //9131	CW	(JPL)

M89	9131	16-1	1019	Tue	V UISD (x3) DE CBFG (x2) //5743	CW	(JPL)
M89	5566	16-1	1021	Tue	i.p. VVV ABDE AS AS SK SK VA = XNQYA ? AR AR AR AR NR 0021 CK 26 51 0201 1036 RMKS 09502 21 TO 2N01 =	CW	(JPL)
M89	3238	16-1	1034	Tue	V M8JF (x3) DE RIS9 (x2) //4870	CW	(JPL)
M89	4870	16-1	1034	Tue	V M8JF (x3) DE RIS9 (x2) //3238	CW	(JPL)
M89	5566	16-1	1426	Tue	i.p. 457U 6453 AU56 DU33 6465 ... AR AR K K	CW	(JPL)
M89	4125	16-1	1436	Tue	V UISD (x3) DE CBFG (x2) //5479	CW	(JPL)
M89	5479	16-1	1436	Tue	V UISD (x3) DE CBFG (x2) //4125	CW	(JPL)
M89	4904	16-1	1438	Tue	V QW2A (x3) DE G5VD (x2)	CW	(JPL)
M89	3238	16-1	1440	Tue	V M8JF (x3) DE RIS9 (x2) //4870	CW	(JPL)
M89	4870	16-1	1440	Tue	V M8JF (x3) DE RIS9 (x2) //3238	CW	(JPL)
M89	10589	17-1	0735	Wed	V QW2A (x3) DE G5VD (x2)	CW	(JPL)
M89	8344	17-1	0748	Wed	i.p. QSL 1549 K. R K (Both stations on this frequency) HR WK NR 421 K. R HR WK NR 16 K. R SK SK	CW	(JPL)
M89	6874	17-1	0753	Wed	V M8JF (x3) DE RIS9 (x2) //8157	CW	(JPL)
M89	8157	17-1	0753	Wed	V M8JF (x3) DE RIS9 (x2) //6874	CW	(JPL)
M89	7476	17-1	0756	Wed	i.p. DAT3 NTN4 T33T TTTA 57TA ...	CW	(JPL)
M89	7441	17-1	0758	Wed	i.p. A574 6354 A6TD U3A3 6573 676T ... AR R R R R R GA R R GA	CW	(JPL)
M89	5744	17-1	0817	Wed	i.p. TN76 D74A DT74 U4U5 357T ...	CW	(JPL)
M89	5566	17-1	0818	Wed	i.p. 7T5D NDUT U563 76UA 457A ...	CW	(JPL)
M89	5294	17-1	0827	Wed	i.p. VVV GUHN K. DE GUHN K (Other station also on this frequency) R HR KP U QSA 2 K. R HR KP U QSA 2 K	CW	(JPL)
M89	5292	17-1	0835	Wed	i.p. U4D6 3A6N 5D7A 4D5A = = = D7A6 UTAA D7A5 47DN ...	CW	(JPL)
M89	3238	17-1	0843	Wed	V M8JF (x3) DE RIS9 (x2) //8157 and 6847 and 4870	CW	(JPL)
M89	4870	17-1	0843	Wed	V M8JF (x3) DE RIS9 (x2) //8157 and 6847 and 3238	CW	(JPL)
M89	6874	17-1	0843	Wed	V M8JF (x3) DE RIS9 (x2) //8157 and 4870 and 3238	CW	(JPL)
M89	8157	17-1	0843	Wed	V M8JF (x3) DE RIS9 (x2) //6874 and 4870 and 3238	CW	(JPL)
M89	5743	17-1	0845	Wed	V UISD (x3) DE CBFG (x2) //9131	CW	(JPL)
M89	9131	17-1	0845	Wed	V UISD (x3) DE CBFG (x2) //5743	CW	(JPL)
M89	4245	17-1	1205	Wed	i.p. 3ALE de 9ABR K. R K. A3O8 DE 9ABR K. R K. STIO DE 9ABR K	CW	(JPL)
M89	4125	17-1	1217	Wed	V UISD (x3) DE CBFG (x2) //5479	CW	(JPL)
M89	5479	17-1	1217	Wed	V UISD (x3) DE CBFG (x2) //4125	CW	(JPL)
M89	10589	18-1	0756	Thu	V QW2A (x3) DE G5VD (x2)	CW	(JPL)
M89	5743	18-1	0757	Thu	V UISD (x3) DE CBFG (x2) //9131	CW	(JPL)
M89	9131	18-1	0757	Thu	V UISD (x3) DE CBFG (x2) //5743	CW	(JPL)
M89	6874	18-1	0800	Thu	V M8JF (x3) DE RIS9 (x2) //8157	CW	(JPL)
M89	8157	18-1	0800	Thu	V M8JF (x3) DE RIS9 (x2) //6874	CW	(JPL)
M89	5061	18-1	0813	Thu	i.p. 56TU 6547 DUN3 63U7 NU65 ... AR AR K. R U 7G GA K	CW	(JPL)
M89	5088	18-1	0813	Thu	i.p. R HR WK NR 117 117 K. R NIL SK R GB V 5DSJ (x3) DE BR7D (x2)	CW	(JPL)
M89	3238	18-1	1526	Thu	V M8JF (x3) DE RIS9 (x2) //4870	CW	(JPL)
M89	4870	18-1	1526	Thu	V M8JF (x3) DE RIS9 (x2) //3238	CW	(JPL)
M89	4904	18-1	1530	Thu	V QW2A (x3) DE G5VD (x2)	CW	(JPL)
M89	4125	18-1	1532	Thu	V UISD (x3) DE CBFG (x2) //5479	CW	(JPL)
M89	5479	18-1	1532	Thu	V UISD (x3) DE CBFG (x2) //4125	CW	(JPL)
M89	10589	19-1	0911	Fri	V QW2A (x3) DE G5VD (x2)	CW	(JPL)
M89	5743	19-1	0912	Fri	V UISD (x3) DE CBFG (x2) //9131	CW	(JPL)
M89	9131	19-1	0912	Fri	V UISD (x3) DE CBFG (x2) //5743	CW	(JPL)
M89	3238	19-1	0914	Fri	V M8JF (x3) DE RIS9 (x2) //6874 and 4870	CW	(JPL)
M89	4870	19-1	0914	Fri	V M8JF (x3) DE RIS9 (x2) //6874 and 3238	CW	(JPL)
M89	6874	19-1	0914	Fri	V M8JF (x3) DE RIS9 (x2) //4870 and 3238	CW	(JPL)
M89	6840	19-1	0920	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //10640	CW	(JPL)
M89	10640	19-1	0920	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //6840	CW	(JPL)
M89	5755	19-1	0921	Fri	i.p. 6743 DN7U UN46 A47D NA76 ...	CW	(JPL)
M89	5353	19-1	0926	Fri	i.p. 6U6T DTU4 DA36 5657 AR	CW	(JPL)
M89	5615	19-1	0928	Fri	i.p. MSG NR 313 CK 199 02 0119 1500 RMKS 620501905 K = D776 734N 53D5 UT5A 4TT7 ...	CW	(JPL)
M89	5210	19-1	0931	Fri	i.p. A56D 53T7 7TA5 3UND ND53 NDAU ...	CW	(JPL)
M89	5088	19-1	0935	Fri	i.p. T4UN 3A6D U4N3 D7N5 T6A3 ... II K. TC 17W = 3051 AR K	CW	(JPL)
M89	6971	20-1	0721	Sat	i.p. NR 8046 CK 41 0901 20 1500 = 53BD AD67 ... QSL 1524 = LSB WK QSL QSL AR	CW	(F5JBR-J)
M89	3270	20-1	0905	Sat	i.p. LP8Q de ADQ2 QSA 2 QSY 22 K. LP8Q de ADQ2 HR MSG NR 02 CK CK 91 2901 20 1800 RMKS 9918 TO 9818 = 6NUU TT4U UT47 ... LP8Q de ADQ2 SK and GB	CW	(F5JBR-J)

M89	10589	21-1	0619	Sun	V QW2A (x3) DE G5VD (x2)	CW	(JPL)
M89	6840	21-1	0620	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //10640	CW	(JPL)
M89	10640	21-1	0620	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //6840	CW	(JPL)
M89	8860	21-1	0624	Sun	i.p. D5AT 4T36 547D 76T5 ... III 5P = 5743 N4U5 TN6U 7354 45NU	CW	(JPL)
M89	5244	21-1	0744	Sun	JVMB de IKV7 K. QSA 2 K	CW	(F5JBR-J)
M89	5591	21-1	0800	Sun	SI2Q de YUX5 K. GA R GA R QSL 1546 VA MQE7 de YUX5 K QSA 2 K	CW	(F5JBR-J)
M89	4243	21-1	0844	Sun	CP8 wkg UM2, V4F, ZKT, L4H: QRX 0900 HR MSG NR 42 CK182 35 0121 1625 = UTUA 3U63 A47O ...	CW	(F5JBR-J)
M89	3389	21-1	0933	Sun	MDI8 de ZZH6 K. HR MGG NR64 CK 91 630121 1715 RMKS 5090 TO 5537 = 3UUA D34U TUTA A4DD ... QSL1750 k SK	CW	(F5JBR-J)
M89	3861	21-1	1005	Sun	CQ de HGAQ HR NR 0467/EX 1805 = BN AR K = = NBM AR	CW	(F5JBR-J)
M89	3277	21-1	1306	Sun	DE A81K K. HR MSG NR 0159 CK41 42 01 21 2100 RMKS 92... TO 9298 = TU45 5375 467A 734N ... SK	CW	(F5JBR-J)
M89	3277	21-1	1318	Sun	IC5M de 4Q6G K. HR GA and MSG NR 028 CK91 29 01 21 2100 RMKS 9818 TO 9978 = ... SK	CW	(F5JBR-J)
M89	3296	21-1	1334	Sun	...JM de ZFZ6 K. MSG NR0025 CK 141 33 01 21 2134 RMKS 0698 TO 0660 = ... SK	CW	(F5JBR-J)
M89	3238	21-1	2136	Sun	V M8JF (x3) DE RIS9 (x2) //4870	CW	(JPL)
M89	4870	21-1	2136	Sun	V M8JF (x3) DE RIS9 (x2) //3238	CW	(JPL)
M89	4125	21-1	2138	Sun	V UISD (x3) DE CBFG (x2)	CW	(JPL)
M89	4904	21-1	2140	Sun	V QW2A (x3) DE G5VD (x2)	CW	(JPL)
M89	10589	22-1	0807	Mon	V QW2A (x3) DE G5VD (x2)	CW	(JPL)
M89	10086	22-1	0808	Mon	i.p. = = 73AU D7T4 UA3D 453N 63AU (Cont'd) AR KK	CW	(JPL)
M89	9131	22-1	0822	Mon	V IISD (x3) DE CNIT (x2)	CW	(JPL)
M89	9131	22-1	0828	Mon	V UISD (x3) DE CBFG (x2)	CW	(JPL)
M89	8269	22-1	0834	Mon	i.p. R DE HCJ7 K. R QSA ? U RPT 1W K. R = = 54UT AR K	CW	(JPL)
M89	6874	22-1	0842	Mon	V M8JF (x3) DE RIS9 (x2) //8157	CW	(JPL)
M89	8157	22-1	0842	Mon	V M8JF (x3) DE RIS9 (x2) //6874	CW	(JPL)
M89	7975	22-1	0844	Mon	i.p. DA43 U7A6 3N6T 36D7 TATA T33T TT33 35TU ...	CW	(JPL)
M89	3238	22-1	1522	Mon	V M8JF (x3) DE RIS9 (x2) //4870	CW	(JPL)
M89	4870	22-1	1522	Mon	V M8JF (x3) DE RIS9 (x2) //3238	CW	(JPL)
M89	4904	22-1	1524	Mon	V QW2A (x3) DE G5VD (x2)	CW	(JPL)
M89	4125	22-1	1525	Mon	V UISD (x3) DE CBFG (x2) //5479	CW	(JPL)
M89	5479	22-1	1525	Mon	V UISD (x3) DE CBFG (x2) //4125	CW	(JPL)
M89	10589	23-1	0712	Tue	V QW2A (x3) DE G5VD (x2)	CW	(JPL)
M89	6874	23-1	0733	Tue	V M8JF (x3) DE RIS9 (x2) //8157	CW	(JPL)
M89	8157	23-1	0733	Tue	V M8JF (x3) DE RIS9 (x2) //6874	CW	(JPL)
M89	5743	23-1	0738	Tue	V UISD (x3) DE CBFG (x2) //9131	CW	(JPL)
M89	9131	23-1	0738	Tue	V UISD (x3) DE CBFG (x2) //5743	CW	(JPL)
M89	9671	23-1	0752	Tue	i.p. F NR 4474/EX 1548 RMKS 7012 TO 7071 K. F NR NR 4474/EX 1548 RMKS 7012 TO 7071 K (QX 9452)	CW	(JPL)
M89	9452	23-1	0810	Tue	i.p. R R QSL 1605 QSL 1605 K K USB USB (Switched to digital mode. QX 9671)	CW	(JPL)
M89	6840	23-1	0820	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //10640	CW	(JPL)
M89	10640	23-1	0820	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //6840	CW	(JPL)
M89	3238	23-1	1257	Tue	V M8JF DE RIS9 438/5193/5393/63/75/7356/367/A AR V M8JF DE RIS9 //4870	CW	(JPL)
M89	4870	23-1	1257	Tue	V M8JF DE RIS9 438/5193/5393/63/75/7356/367/A AR V M8JF DE RIS9 //3238	CW	(JPL)
M89	4125	23-1	1303	Tue	V UISD (x3) DE CBFG (x2) //5479	CW	(JPL)
M89	5479	23-1	1303	Tue	V UISD (x3) DE CBFG (x2) //4125	CW	(JPL)
M89	4904	23-1	1307	Tue	V QW2A (x3) DE G5VD (x2)	CW	(JPL)
M89	5743	24-1	0049	Wed	V UISD (x3) DE CBFG (x2) //9131	CW	(JPL)
M89	9131	24-1	0049	Wed	V UISD (x3) DE CBFG (x2) //5743	CW	(JPL)
M89	10589	24-1	0827	Wed	V QW2A (x3) DE G5VD (x2)	CW	(JPL)
M89	5743	24-1	0828	Wed	V UISD (x3) DE CBFG (x2) //9131	CW	(JPL)
M89	9131	24-1	0828	Wed	V UISD (x3) DE CBFG (x2) //5743	CW	(JPL)
M89	4870	24-1	0843	Wed	V M8JF (x3) DE RIS9 (x2) //8157	CW	(JPL)
M89	8157	24-1	0843	Wed	V M8JF (x3) DE RIS9 (x2) //4870	CW	(JPL)
M89	8157	25-1	0903	Thu	V M8JF M8JF M8JF DE RIS9 RIS9	CW	(RL)
M89	10589	25-1	0926	Thu	V QW2A (x3) DE G5VD (x2)	CW	(JPL)
M89	4870	25-1	0927	Thu	i.p. TO 0013 = 2046 6832 8476 AR F NR 04 1727 RMKS 5393 TO 0013 = 2046 6832 8476 AR V M8JF DE RIS9 //8157 and 6874	CW	(JPL)
M89	6874	25-1	0927	Thu	i.p. TO 0013 = 2046 6832 8476 AR F NR 04 1727 RMKS 5393	CW	(JPL)

					TO 0013 = 2046 6832 8476 AR V M8JF DE RIS9 //8157 and 4870		
M89	8157	25-1	0927	Thu	i.p. TO 0013 = 2046 6832 8476 AR F NR 04 1727 RMKS 5393 TO 0013 = 2046 6832 8476 AR V M8JF DE RIS9 //6874 and 4870	CW	(JPL)
M89	9131	25-1	0934	Thu	V UISD (x3) DE CBFG(x2)	CW	(JPL)
M89	3238	25-1	0944	Thu	V M8JF DE RIS9 MSG NR 1206 CK 92 40 0125 1745 RMKS 5393 TO 5013 5512 0760 3351 5983 5043 8347 3651 0541 7852 3613 0313 = //4870	CW	(JPL)
M89	4870	25-1	0944	Thu	V M8JF DE RIS9 MSG NR 1206 CK 92 40 0125 1745 RMKS 5393 TO 5013 5512 0760 3351 5983 5043 8347 3651 0541 7852 3613 0313 = //3238	CW	(JPL)
M89	4125	25-1	1939	Thu	V UISD (x3) DE CBFG (x2) //5479	CW	(JPL)
M89	5479	25-1	1939	Thu	V UISD (x3) DE CBFG (x2) //4125	CW	(JPL)
M89	8157	27-1	0724	Sat	M8JF (x3) de RIS9 (x2) V	CW	(F5JBR-J)
M89	10589	27-1	0742	Sat	QW2A (x3) de G5VD (x2) V	CW	(F5JBR-J)
M89	4870	27-1	0830	Sat	M8JF (x3) de RIS9 (x2) V //3238 //6874 kHz	CW	(F5JBR-J)
M89	3238	27-1	1343	Sat	V M8JF (x3) DE RIS9 (x2) //4870	CW	(JPL)
M89	4870	27-1	1343	Sat	V M8JF (x3) DE RIS9 (x2) //3238	CW	(JPL)
M89	4125	27-1	1345	Sat	V UISD (x3) DE CBFG (x2) //5479 Note: Having technical issues with roundslip. Sending V UISD (x3) DE (x3)	CW	(JPL)
M89	5479	27-1	1345	Sat	V UISD (x3) DE CBFG (x2) //4125 Note: Having technical issues with roundslip. Sending V UISD (x3) DE (x3)	CW	(JPL)
M89	4904	27-1	1351	Sat	V QW2A (x3) DE G5VD (x2)	CW	(JPL)
M89	5245	27-1	1613	Sat	i.p. AR FF NR 1005/EX 0011 = D.3/GBY AR QSY LW QSY D. QSY LW	CW	(JPL)
M89	5365	27-1	1616	Sat	i.p. 75ND 735U 55TU N4AA 6N5T ... RPT 090 HR ... ..	CW	(JPL)
M89	5622	27-1	1619	Sat	i.p. R R KP KP	CW	(JPL)
M89	4326	27-1	1628	Sat	V QW2A (x3) DE G5VD (x2) //4904	CW	(JPL)
M89	4904	27-1	1628	Sat	V QW2A (x3) DE G5VD (x2) //4326	CW	(JPL)
M89	4477	27-1	1632	Sat	i.p. R HR 7G NR 6056 CK .1. 2 012. ..0 RMKS .998 TO 099. = = .. TD..	CW	(JPL)
M89	3238	27-1	2215	Sat	V M8JF (x3) DE RIS9 (x2) //4870	CW	(JPL)
M89	4870	27-1	2215	Sat	i.p. 63/72/6109/369/A V M8JF (x3) DE RIS9 (x2) //3238	CW	(JPL)
M89	4696	28-1	1001	Sun	SVC NR 278 1800 RMKS 9792 TO 8562 = UAT 1900 UGT COMM 9792 936 AR K. QSL 1802 K. QRU K. QRU GB. GB SK SK	CW	(F5JBR-J)
M89	3088	28-1	1030	Sun	S52D (x3) de BR7D (x2) V	CW	(F5JBR-J)
M89	4326	28-1	1320	Sun	V QW2A (x3) DE G5VD (x2) //4904 Note: ending Q2IA vice QW2A. //roundslip sending correct call.	CW	(JPL)
M89	4904	28-1	1320	Sun	V QW2A (x3) DE G5VD (x2) //4326 Note: ending Q2IA vice QW2A. //roundslip sending correct call.	CW	(JPL)
M89	3238	28-1	1325	Sun	V M8JF (x3) DE RIS9 (x2) //4870	CW	(JPL)
M89	4870	28-1	1325	Sun	V M8JF (x3) DE RIS9 (x2) //3238	CW	(JPL)
M89	3245	28-1	1327	Sun	i.p. 4DN4 .DAA T553 67AT NUNN AR EEE AR K. R RPT W5W BT 3D4D AR K. R R	CW	(JPL)
M89	3759	28-1	1334	Sun	i.p. 75UD 37AA TU3A 4NUD 73NA ... AR K. R RPT 19W = TU6A TU6A AR K	CW	(JPL)
M89	4125	28-1	1357	Sun	V UISD (x3) DE CBFG (x2) //5479 Note: Sending V UISD (x3) DE (x3)	CW	(JPL)
M89	5479	28-1	1357	Sun	V UISD (x3) DE CBFG (x2) //4125 Note: Sending V UISD (x3) DE (x3)	CW	(JPL)
M89	5743	29-1	0920	Mon	V UISD (x3) DE CBFG (x2) //9131 Note: Still having technical issues. Sending V UISD (x3) DE (x3)	CW	(JPL)
M89	9131	29-1	0920	Mon	V UISD (x3) DE CBFG (x2) //5743 Note: Still having technical issues. Sending V UISD (x3) DE (x3)	CW	(JPL)
M89	6714	29-1	0946	Mon	i.p. 1225 1617 RMKS 2109 TO 2529 K 55A7 47A7 A3UU 333U UAAA 637A ...	CW	(JPL)
M89	3238	29-1	0955	Mon	V M8JF (x3) DE RIS9 (x2) //4870	CW	(JPL)
M89	4870	29-1	0955	Mon	V M8JF (x3) DE RIS9 (x2) //3238	CW	(JPL)
M89	6305	29-1	1012	Mon	V KF4R (x3) DE 3VML (x2) V 8IRQ DE TG9K K R QSA ? K R IEC = 3117 AR K	CW	(JPL)
M89	4125	29-1	1601	Mon	V UISD (x3) DE CBFG (x2)	CW	(JPL)
M89	4904	29-1	1610	Mon	V QW2A (x3) DE G5VD (x2)	CW	(JPL)
M89	4326	29-1	1817	Mon	V QW2A (x3) DE G5VD (x2) //4904	CW	(JPL)
M89	4904	29-1	1817	Mon	V QW2A (x3) DE G5VD (x2) //4326	CW	(JPL)
M89	4125	29-1	1818	Mon	V UISD (x3) DE CBFG (X2) //5479	CW	(JPL)



M89	5479	29-1	1818	Mon	V USD (x3) DE CBFG (x2) //4125	CW	(JPL)
M89	10589	30-1	0909	Tue	V QW2A (x3) DE G5VD (x2)	CW	(JPL)
M89	5743	30-1	0910	Tue	V USD (x3) DE CBFG(x2) //9131	CW	(JPL)
M89	9131	30-1	0910	Tue	V USD (x3) DE CBFG(x2) //5743	CW	(JPL)
M89	4870	30-1	0913	Tue	V M8JF (x3) DE RIS9 (x2) //6874 and 8157	CW	(JPL)
M89	6874	30-1	0913	Tue	V M8JF (x3) DE RIS9 (x2) //4870 and 8157	CW	(JPL)
M89	8157	30-1	0913	Tue	V M8JF (x3) DE RIS9 (x2) //6874 and 4870	CW	(JPL)
M89	5653	30-1	0921	Tue	i.p. 753T D73A 7T53 5ATD	CW	(JPL)
M89	3238	30-1	1731	Tue	V M8JF (x3) DE RIS9 (x2) //4870	CW	(JPL)
M89	4870	30-1	1731	Tue	V M8JF (x3) DE RIS9 (x2) //3238	CW	(JPL)
M89	4125	30-1	1735	Tue	V USD (x3) DE CBFG (X2) //5479	CW	(JPL)
M89	5479	30-1	1735	Tue	V USD (x3) DE CBFG (X2) //4125	CW	(JPL)
M89	4326	30-1	1737	Tue	V QW2A (x3) DE G5VD (x2) //4904	CW	(JPL)
M89	4904	30-1	1737	Tue	V QW2A (x3) DE G5VD (x2) //4326	CW	(JPL)
M89	4326	31-1	1442	Wed	V QW2A (x3) DE G5VD (x2)	CW	(JPL)
M89	4125	31-1	1444	Wed	V USD (x3) DE CBFG (X2) //5479	CW	(JPL)
M89	5479	31-1	1444	Wed	V USD (x3) DE CBFG (X2) ///4125	CW	(JPL)
M89	3238	31-1	1446	Wed	V M8JF (x3) DE RIS9 (x2) //4870	CW	(JPL)
M89	4870	31-1	1446	Wed	V M8JF (x3) DE RIS9 (x2) //3238	CW	(JPL)
M89a	9671	23-1	0811	Tue	Switched to voice traffic. Female operator	USB	(JPL)
M89v	7077	4-1	0934	Thu	Switched to Chinese voice traffic. Male operator	USB	(JPL)
M89v	6241	4-1	0942	Thu	Switched to Chinese voice traffic. Female operator	USB	(JPL)
M95	10180	1-1	0904	Mon	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M95	9191	1-1	0906	Mon	V B52H (x3) DE NT85 (x2)	CW	(JPL)
M95	4243	1-1	0940	Mon	i.p. 445 TT5 773 N44 5AA 75U 3U7 ... AR AHR UP SB WK //9054	CW	(JPL)
M95	9054	1-1	0940	Mon	i.p. 445 TT5 773 N44 5AA 75U 3U7 ... AR AHR UP SB WK //4243	CW	(JPL)
M95	4243	1-1	1147	Mon	VHR MSG TO YR PSE CY NR 058 CK 21 35 0101 1507 = 5TD UTT TTA 3U6 3A4 ... //9054	CW	(JPL)
M95	9054	1-1	1147	Mon	VHR MSG TO YR PSE CY NR 058 CK 21 35 0101 1507 = 5TD UTT TTA 3U6 3A4 ... //4243	CW	(JPL)
M95	3642	1-1	1833	Mon	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M95	7602	1-1	1833	Mon	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M95	6262	1-1	1841	Mon	V B52H (x3) DE NT85 (x2)	CW	(JPL)
M95	4243	1-1	2349	Mon	i.p. 446 4D6 3DU AR MSG AGN NR 069 CK 13 35 0102 0617 = .T5 TTU 3U4 3A4 TTA ... //9054	CW	(JPL)
M95	9054	1-1	2349	Mon	i.p. 446 4D6 3DU AR MSG AGN NR 069 CK 13 35 0102 0617 = .T5 TTU 3U4 3A4 TTA ... //4243	CW	(JPL)
M95	5172	2-1	0036	Tue	DPT5 DE BR7D AS K. DE R QSA 3 QSA ? K. MSG NR 003/CCK CK 99 6. 0102 0830 RMKS Q CQ AR	CW	(JPL)
M95	10180	2-1	0745	Tue	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M95	3642	2-1	1418	Tue	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M95	3642	2-1	1723	Tue	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M95	5801	3-1	0557	Wed	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M95	10180	3-1	0557	Wed	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M95	10412	3-1	0610	Wed	i.p. 05 05 DE Z7Q K. QSA 2 K. IEC = 4549 AR K	CW	(JPL)
M95	5801	3-1	1111	Wed	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M95	10180	3-1	1111	Wed	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M95	4325	3-1	1129	Wed	i.p. 3645 DNTA 7U45 3D6N TAU5 ... AR K	CW	(JPL)
M95	4243	3-1	1153	Wed	i.p. AR 7G AGN NR 01 CK 44 49 0103 1647 = D44 455 T7U D46 53U ...	CW	(JPL)
M95	10180	4-1	0808	Thu	[V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M95	10180	4-1	1429	Thu	[V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M95	5801	5-1	0808	Fri	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M95	10180	5-1	0808	Fri	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M95	4243	5-1	0856	Fri	i.p. 445 3UD 357 363 43N ... AR 7G AGN NR 10 CK 146 35 0105 1555 = UTU TT5 3U6 3A4 TTU 773 35A N3D ... //9054	CW	(JPL)
M95	9054	5-1	0856	Fri	i.p. 445 3UD 357 363 43N ... AR 7G AGN NR 10 CK 146 35 0105 1555 = UTU TT5 3U6 3A4 TTU 773 35A N3D ... //4243	CW	(JPL)
M95	4243	6-1	1149	Sat	V HR MSG TO YR PSE CY NR 068 CK 22 35 0106 1519 = 5TD UTT TT6 3U6 3A4 ... //9054	CW	(JPL)
M95	9054	6-1	1149	Sat	V HR MSG TO YR PSE CY NR 068 CK 22 35 0106 1519 = 5TD UTT TT6 3U6 3A4 ... //4243	CW	(JPL)
M95	3642	6-1	2014	Sat	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M95	5801	7-1	0219	Sun	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M95	5801	7-1	0724	Sun	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)

M95	10180	7-1	0724	Sun	i.p. 3U34 N4DU A76U 4NU3 7N7T ... AR QSL? HR WK NR 220 V DKG6 DE 3A7D ///5801	CW	(JPL)
M95	10180	7-1	0735	Sun	VV HR MSG GA NR 029/CCK CK 91 19 0107 1535 RMKS 5319 TO 5369 5317 5164 = 4UA5 4U5T 6N57 DUNA ... V DKG6 DE 3A7D ///5801	CW	(JPL)
M95	10180	7-1	0755	Sun	VV HR SVC GA NR 029 1600 RMKS 5319 TO 5177 = COMM/1630/XZ978/82/5317/5177 AR QSL ? HR WK NR 220 V DKG6 DE 3A7D ///5801	CW	(JPL)
M95	3642	7-1	1339	Sun	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M95	3286	7-1	1747	Sun	VV BHGT DE KTS D HR SVC GA HR SVC GA = 305/XZ722/0504/75/06/27/X327A/COMM/0034 AR	CW	(JPL)
M95	5801	8-1	0831	Mon	V DKG6 (x3) DE 3A7D (x2) ///10180	CW	(JPL)
M95	10180	8-1	0831	Mon	V DKG6 (x3) DE 3A7D (x2) VV HR SVC GA NR 132 1630 RMKS 5319 TO 5628 = CL/1700/ZBT/A979/.28 AR QSL ? HR WK NR 040 ///5801	CW	(JPL)
M95	3642	8-1	1816	Mon	V DKG6 (x3) DE 3A7D (x2) ///7602	CW	(JPL)
M95	7602	8-1	1816	Mon	V DKG6 (x3) DE 3A7D (x2) ///3642	CW	(JPL)
M95	4243	8-1	2348	Mon	(i.p. AR A HR 7G GA NR 11 CK 071 35 0109 0720 = UTU TTN 3U4 3A4 7TU ... AR A HR UP SB WK AR AR ///9054	CW	(JPL)
M95	9054	8-1	2348	Mon	(i.p. AR A HR 7G GA NR 11 CK 071 35 0109 0720 = UTU TTN 3U4 3A4 7TU ... AR A HR UP SB WK AR AR ///4243	CW	(JPL)
M95	4364	9-1	0002	Tue	V BNGC (x3) DE XSV85 NR 004. CK 108 35 0109 06.. NR 0044 CK 44 35 ... ///8073	CW	(JPL)
M95	8073	9-1	0002	Tue	V BNGC (x3) DE XSV85 NR 004. CK 108 35 0109 06.. NR 0044 CK 44 35 ... ///4364	CW	(JPL)
M95	8073	9-1	0002	Tue	BNGC DE XSV85 ///4364	CW	(JPL)
M95	4364	9-1	0020	Tue	Messages in Chinese. Male operator ///8073	CW	(JPL)
M95	8073	9-1	0020	Tue	Messages in Chinese. Male operator ///4364	CW	(JPL)
M95	5801	9-1	0340	Tue	V DKG6 (x3) DE 3A7D (x2) ///10180	CW	(JPL)
M95	10180	9-1	0340	Tue	V DKG6 (x3) DE 3A7D (x2) ///5801	CW	(JPL)
M95	5801	9-1	0913	Tue	V DKG6 (x3) DE 3A7D (x2) ///10180	CW	(JPL)
M95	10180	9-1	0913	Tue	V DKG6 (x3) DE 3A7D (x2) ///5801	CW	(JPL)
M95	3642	9-1	1414	Tue	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M95	5801	11-1	0929	Thu	V DKG6 de 3A7D HR SVC GA NR 189 1730 RMKS 5319 TO 5699 = CL/1800/ZBT/A979/5699 AR QSL ? HR WK NR 050 V DKG6 de 3A7D ///10180	CW	(JPL)
M95	10180	11-1	0929	Thu	V DKG6 de 3A7D HR SVC GA NR 189 1730 RMKS 5319 TO 5699 = CL/1800/ZBT/A979/5699 AR QSL ? HR WK NR 050 V DKG6 de 3A7D ///5801	CW	(JPL)
M95	3642	11-1	1435	Thu	V DKG6 (x3) DE 3A7D (x2) ///7602	CW	(JPL)
M95	7602	11-1	1435	Thu	V DKG6 (x3) DE 3A7D (x2) ///3642	CW	(JPL)
M95	3642	11-1	2121	Thu	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M95	5801	12-1	1148	Fri	V DKG6 (x3) DE 3A7D (x2) ///10180	CW	(JPL)
M95	10180	12-1	1148	Fri	V DKG6 (x3) DE 3A7D (x2) ///5801	CW	(JPL)
M95	3642	12-1	2330	Fri	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M95	5801	13-1	0729	Sat	V DKG6 DE 3A7D HR SVC GA NR 223 1530 RMKS 5319 TO 5369 = CL/1650/ZBT/A979/5369 AR QSL ? HR WK NR 050 V DKG6 DE 3A7D ///10180	CW	(JPL)
M95	10180	13-1	0729	Sat	V DKG6 DE 3A7D HR SVC GA NR 223 1530 RMKS 5319 TO 5369 = CL/1650/ZBT/A979/5369 AR QSL ? HR WK NR 050 V DKG6 DE 3A7D ///5801	CW	(JPL)
M95	3642	13-1	1228	Sat	V DKG6 (x3) DE 3A7D (x2) ///7602	CW	(JPL)
M95	7602	13-1	1228	Sat	V DKG6 (x3) DE 3A7D (x2) ///3642	CW	(JPL)
M95	5801	14-1	0835	Sun	V DKG6 (x3) DE 3A7D (x2) ///10180	CW	(JPL)
M95	10180	14-1	0835	Sun	V DKG6 (x3) DE 3A7D (x2) ///5801	CW	(JPL)
M95	5801	14-1	0937	Sun	V DKG6 DE 3A7D VV HR SVC GA NR 245 1730 RMKS 5319 TO 5644 = CL/1800/ZBT/A979/5644 AR QSL ? HR WK NR 040 V DKG6 DE 3A7D ///10180	CW	(JPL)
M95	10180	14-1	0937	Sun	V DKG6 (x3) DE 3A7D (x2) ///5801	CW	(JPL)
M95	3642	14-1	1612	Sun	i.p. 537D 5D7N NTN7 734N ND3D 5TDA ... AR QSL ? HR WK NR 050 V DKG6 DE 3A7D	CW	(JPL)
M95	3642	14-1	1629	Sun	V DKG6 (x3) DE 3A7D (x2) ///7602	CW	(JPL)
M95	7602	14-1	1629	Sun	V DKG6 (x3) DE 3A7D (x2) ///3642	CW	(JPL)
M95	5801	15-1	0637	Mon	V DKG6 (x3) DE 3A7D (x2) ///10180	CW	(JPL)
M95	10180	15-1	0637	Mon	V DKG6 (x3) DE 3A7D (x2) ///5801	CW	(JPL)
M95	3642	15-1	1545	Mon	V DKG6 (x3) DE 3A7D (x2) ///7602	CW	(JPL)
M95	7602	15-1	1545	Mon	V DKG6 (x3) DE 3A7D (x2) ///3642	CW	(JPL)

M95	5801	16-1	1010	Tue	V DKG6 DE 3A7D VV HR SVC GA NR 279 1840 RMKS 5419 TO 5529 = CL/1900/ZBT/A979/5529 AR HR WK NR 640 V DKG6 DE 3A7D //10180	CW	(JPL)
M95	10180	16-1	1010	Tue	V DKG6 DE 3A7D VV HR SVC GA NR 279 1840 RMKS 5419 TO 5529 = CL/1900/ZBT/A979/5529 AR HR WK NR 640 V DKG6 DE 3A7D //5801	CW	(JPL)
M95	3642	16-1	1422	Tue	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M95	7602	16-1	1422	Tue	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M95	10180	17-1	0726	Wed	i.p. / 5526 AR QSL ? HR WK NR 050 V DKG6 DE 3A7D	CW	(JPL)
M95	5801	17-1	1154	Wed	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M95	4243	17-1	1158	Wed	i.p. AR A HR 7G GA NR 017 CK 18 35 0117 1544 = UT5 TA7 3U6 3A4 TTA ...	CW	(JPL)
M95	4243	17-1	1205	Wed	Messages in Chinese. Female operator	CW	(JPL)
M95	10180	18-1	0753	Thu	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M95	5358	18-1	0805	Thu	i.p. R QSL 1605 CY K. 5U73 DT75 NAU6 TD4U 45U4 N6A7 AUD3 437D T3UA TTTA ... AR K R SK GB	CW	(JPL)
M95	3642	18-1	1522	Thu	A7UA 47AA 4NTA D65A 4343 AR HR WK NR 19 V DKG6 DE 3A7D	CW	(JPL)
M95	5801	19-1	0907	Fri	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M95	10180	19-1	0907	Fri	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M95	5801	21-1	0615	Sun	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M95	10180	21-1	0615	Sun	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M95	5391	21-1	0802	Sun	JVMB de IKV7 QSA 3 K. HR MSG NR 022//CCK 199 3201211300 RMKS = 5313 TO 5447	CW	(F5JBR-J)
M95	3642	21-1	2133	Sun	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M95	7602	21-1	2133	Sun	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M95	5801	22-1	0759	Mon	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M95	10180	22-1	0759	Mon	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M95	3642	22-1	1518	Mon	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M95	7602	22-1	1518	Mon	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M95	5801	23-1	0659	Tue	V DKG6 DE 3A7D VVV SVC GA NR 090 1500 RMKS 5319 TO 5604 = CL/1530/ZBT/5319/5604 AR QSL ? HR WK NR 120 K V DKG6 DE 3A7D //10180	CW	(JPL)
M95	10180	23-1	0659	Tue	V DKG6 DE 3A7D VVV SVC GA NR 090 1500 RMKS 5319 TO 5604 = CL/1530/ZBT/5319/5604 AR QSL ? HR WK NR 120 K V DKG6 DE 3A7D //5801	CW	(JPL)
M95	3642	23-1	1251	Tue	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M95	76042	23-1	1251	Tue	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M95	3642	24-1	0044	Wed	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M95	7602	24-1	0044	Wed	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M95	5801	24-1	0802	Wed	V DKG6 DE 3A7D VV HR 7G GA NR 102/CCK CK 99 19 0124 1611 RMKS 6FS = 3AD5 N7DN 3D4N 6D75 4T3? 3TU4 ... AR QSL? HR WK NR 150 //10180	CW	(JPL)
M95	10180	24-1	0802	Wed	V DKG6 DE 3A7D VV HR 7G GA NR 102/CCK CK 99 19 0124 1611 RMKS 6FS = 3AD5 N7DN 3D4N 6D75 4T3? 3TU4 ... AR QSL? HR WK NR 150 //5801	CW	(JPL)
M95	3642	24-1	1743	Wed	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M95	5801	25-1	0923	Thu	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M95	10180	25-1	0923	Thu	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M95	5801	26-1	1020	Fri	V DKG6 DE 3A7D VV HR SVC GA NR 460 1830 RMKS 5319 TO 5106 = CL/1900/ZBT/A979/5106 AR QSL ? HR WK NR 15 V DKG6 DE 3A7D //10180	CW	(JPL)
M95	10180	26-1	1020	Fri	V DKG6 DE 3A7D VV HR SVC GA NR 460 1830 RMKS 5319 TO 5106 = CL/1900/ZBT/A979/5106 AR QSL ? HR WK NR 15 V DKG6 DE 3A7D //5801	CW	(JPL)
M95	3642	26-1	1545	Fri	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M95	7602	26-1	1545	Fri	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M95	3642	27-1	1337	Sat	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M95	7602	27-1	1337	Sat	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M95	3642	28-1	1316	Sun	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M95	3307	28-1	1457	Sun	CAAC de ZFJ4 K. CAAC de ZFJ4 QSA 3 GA K. CAAC de ZFJ4 QSL 2311 K. CAAC de ZFJ4 HR MSG NR 53/CCK CK 99 69 0128 2250 RMKS 7248 TO 8668 =	CW	(F5JBR-J)
M95	5801	29-1	0910	Mon	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M95	10180	29-1	0910	Mon	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M95	3642	29-1	1657	Mon	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M95	3132	29-1	1700	Mon	IEHC (x3) de D2HR (x2) V. TE2Y QSO with outstations on	CW	(F5JBR-J)

					3366 kHz: 5KKN, R5JY, JKHZ, 5RWD, 2TEP, F2JK, JKS1, USI2		
M95	3642	29-1	1823	Mon	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M95	7602	29-1	1823	Mon	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M95	10180	30-1	0907	Tue	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M95	3642	30-1	1725	Tue	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M95	3642	30-1	1726	Tue	V DKG6 (x3) DE 3A7D (x2) NR ... CK ... 0130 RMKS 5319 TO 5156 = CL/.2.0/ZBT/A979/51.6 AR QSL ? HR WK NR 020 = //7602	CW	(JPL)
M95	7602	30-1	1726	Tue	V DKG6 (x3) DE 3A7D (x2) NR ... CK ... 0130 RMKS 5319 TO 5156 = CL/.2.0/ZBT/A979/51.6 AR QSL ? HR WK NR 020 = //3642	CW	(JPL)
M95	3642	31-1	1240	Wed	VVV HR SVC GA NR 559... 3 RMKS 5319 TO 5191 = CL/0200/ZBT/A979/5191 AR QSL ? HR WK NR 150 V DKG6 DE 3A7D	CW	(JPL)
M95	3642	31-1	1240	Wed	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M95	7602	31-1	1240	Wed	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
MC03	3031	10-1	2000	Wed	NR DDA7 DA4D TU59 NR DDA7 DA43 T3TA	CW	(MAUK-CHN)
MC03	3000.5	11-1	1945	Thu	NR 745A 45A7 TA4T NR 7DAU 6U6A TA4A	CW	(MAUK-CHN)
MX	7508.9	2-1	1146	Tue	Marker S	CW	(MPJ)
MX	8497.8	13-1	0740	Sat	Beacon L, St Petersburg	CW	(AB)
MX	13527.7	13-1	0742	Sat	Beacon D, Sevastopol	CW	(AB)
MX	13528	13-1	0742	Sat	Beacon C, Moscow	CW	(AB)
MX	13528.1	13-1	0742	Sat	Beacon A, Astrakhan	CW	(AB)
MX	10871.7	13-1	0743	Sat	Beacon D, Sevastopol	CW	(AB)
MX	10871.9	13-1	0743	Sat	Beacon S, Sevromorsk	CW	(AB)
MX	10872	13-1	0743	Sat	Beacon C, Moscow	CW	(AB)
MX	10872.1	13-1	0743	Sat	Beacon A, Astrakhan	CW	(AB)
MX	7508.9	13-1	0748	Sat	Beacon S, Sevromorsk	CW	(AB)
MX	10872.4	13-1	0750	Sat	Beacon M, Magadan	CW	(AB-KOR)
MX	20048.2	13-1	0753	Sat	Beacon	CW	(AB-NZL)
MX	20048.4	13-1	0753	Sat	Beacon	CW	(AB-NZL)
MX	8494.4	13-1	0756	Sat	Beacon	CW	(AB-J)
MX	13528.4	13-1	0756	Sat	Beacon	CW	(AB-J)
MX	5156.8	23-1	1428	Tue	Beacon L, St Petersburg	CW	(AB)
MX	7508.7	23-1	1428	Tue	Beacon D, Sevastopol	CW	(AB)
MX	7509.1	23-1	1428	Tue	Beacon A, Astrakhan	CW	(AB)
MX	8494.7	23-1	1428	Tue	Beacon D, Sevastopol	CW	(AB)
MX	8495.1	23-1	1428	Tue	Beacon A, Astrakhan	CW	(AB)
MX	8497.8	23-1	1428	Tue	Beacon L, St Petersburg	CW	(AB)
MX	10871.7	23-1	1428	Tue	Beacon D, Sevastopol	CW	(AB)
MX	10871.9	23-1	1428	Tue	Beacon S, Sevromorsk	CW	(AB)
MX	10872	23-1	1428	Tue	Beacon C, Moscow	CW	(AB)
MX	10872.1	23-1	1428	Tue	Beacon A, Astrakhan	CW	(AB)
MX	13527.7	23-1	1428	Tue	Beacon D, Sevastopol	CW	(AB)
MX	13528	23-1	1428	Tue	Beacon C, Moscow	CW	(AB)
MX	13528.1	23-1	1428	Tue	Beacon A, Astrakhan	CW	(AB)
P03a	13470	1-1	1410	Mon	Polish Intel.	BPSK-63	(AB)
P03a	13470	1-1	1415	Mon	Polish Intel.	BPSK-63	(AB)
P03a	5371	2-1	1725	Tue	Polish Intel.	BPSK-63	(AB)
P03a	5371	2-1	1730	Tue	Polish Intel.	BPSK-63	(AB)
P03a	10487	3-1	1225	Wed	Polish Intel.	BPSK-63	(AB)
P03a	10487	3-1	1230	Wed	Polish Intel.	BPSK-63	(AB)
P03a	13873	3-1	1500	Wed	Polish Intel.	BPSK-63	(AB)
P03a	13873	3-1	1505	Wed	Polish Intel.	BPSK-63	(AB)
P03a	16112	5-1	1440	Fri	Polish Intel.	BPSK-63	(AB)
P03a	16112	5-1	1445	Fri	Polish Intel.	BPSK-63	(AB)
P03a	8680	5-1	1500	Fri	Polish Intel.	BPSK-63	(AB)
P03a	8680	5-1	1505	Fri	Polish Intel.	BPSK-63	(AB)
P03a	11100	5-1	1635	Fri	Polish Intel.	BPSK-63	(AB)
P03a	11100	5-1	1640	Fri	Polish Intel.	BPSK-63	(AB)
P03a	10487	6-1	1225	Sat	Polish Intel.	BPSK-63	(AB)
P03a	10487	6-1	1230	Sat	Polish Intel.	BPSK-63	(AB)
P03a	6986	6-1	1435	Sat	Polish Intel.	BPSK-63	(AB)
P03a	6986	6-1	1440	Sat	Polish Intel.	BPSK-63	(AB)
P03a	13873	6-1	1500	Sat	Polish Intel.	BPSK-63	(AB)
P03a	13873	6-1	1505	Sat	Polish Intel.	BPSK-63	(AB)
P03a	16112	7-1	1440	Sun	Polish Intel.	BPSK-63	(AB-UKR)

P03a	16112	7-1	1445	Sun	Polish Intel.	BPSK-63	(AB-UKR)
P03a	5371	7-1	1725	Sun	Polish Intel.	BPSK-63	(AB)
P03a	5371	7-1	1730	Sun	Polish Intel.	BPSK-63	(AB)
P03a	5371	9-1	1725	Tue	Polish Intel.	BPSK-63	(AB)
P03a	5371	9-1	1730	Tue	Polish Intel.	BPSK-63	(AB)
P03a	10487	10-1	1225	Wed	Polish Intel.	BPSK-63	(AB)
P03a	10487	10-1	1230	Wed	Polish Intel.	BPSK-63	(AB)
P03a	6986	10-1	1435	Wed	Polish Intel.	BPSK-63	(AB)
P03a	6986	10-1	1440	Wed	Polish Intel.	BPSK-63	(AB)
P03a	13873	10-1	1500	Wed	Polish Intel.	BPSK-63	(AB)
P03a	13873	10-1	1505	Wed	Polish Intel.	BPSK-63	(AB)
P03a	16112	12-1	1440	Fri	Polish Intel.	BPSK-63	(AB)
P03a	16112	12-1	1445	Fri	Polish Intel.	BPSK-63	(AB)
P03a	8680	12-1	1500	Fri	Polish Intel.	BPSK-63	(AB)
P03a	8680	12-1	1505	Fri	Polish Intel.	BPSK-63	(AB)
P03a	11100	12-1	1635	Fri	Polish Intel.	BPSK-63	(AB)
P03a	11100	12-1	1640	Fri	Polish Intel.	BPSK-63	(AB)
P03a	13470	14-1	1410	Sun	Polish Intel.	BPSK-63	(AB)
P03a	13470	14-1	1415	Sun	Polish Intel.	BPSK-63	(AB)
P03a	16112	14-1	1440	Sun	Polish Intel.	BPSK-63	(AB)
P03a	16112	14-1	1445	Sun	Polish Intel.	BPSK-63	(AB)
P03a	8680	14-1	1500	Sun	Polish Intel.	BPSK-63	(AB)
P03a	8680	14-1	1505	Sun	Polish Intel.	BPSK-63	(AB)
P03a	5371	14-1	1725	Sun	Polish Intel.	BPSK-63	(AB)
P03a	5371	14-1	1730	Sun	Polish Intel.	BPSK-63	(AB)
P03a	13470	15-1	1410	Mon	Polish Intel.	BPSK-63	(AB)
P03a	13470	15-1	1415	Mon	Polish Intel.	BPSK-63	(AB)
P03a	11100	15-1	1635	Mon	Polish Intel.	BPSK-63	(AB)
P03a	11100	15-1	1640	Mon	Polish Intel.	BPSK-63	(AB)
P03a	5371	16-1	1725	Tue	Polish Intel.	BPSK-63	(AB)
P03a	5371	16-1	1730	Tue	Polish Intel.	BPSK-63	(AB)
P03a	10487	17-1	1225	Wed	Polish Intel.	BPSK-63	(AB)
P03a	10487	17-1	1230	Wed	Polish Intel.	BPSK-63	(AB)
P03a	13873	17-1	1500	Wed	Polish Intel.	BPSK-63	(AB)
P03a	13873	17-1	1505	Wed	Polish Intel.	BPSK-63	(AB)
P03a	16112	19-1	1440	Fri	Polish Intel.	BPSK-63	(AB)
P03a	16112	19-1	1445	Fri	Polish Intel.	BPSK-63	(AB)
P03a	8680	19-1	1500	Fri	Polish Intel.	BPSK-63	(AB)
P03a	8680	19-1	1505	Fri	Polish Intel.	BPSK-63	(AB)
P03a	11100	19-1	1635	Fri	Polish Intel.	BPSK-63	(AB)
P03a	11100	19-1	1640	Fri	Polish Intel.	BPSK-63	(AB)
P03a	10487	20-1	1225	Sat	Polish Intel.	BPSK-63	(AB)
P03a	10487	20-1	1230	Sat	Polish Intel.	BPSK-63	(AB)
P03a	6986	20-1	1435	Sat	Polish Intel.	BPSK-63	(AB)
P03a	6986	20-1	1440	Sat	Polish Intel.	BPSK-63	(AB)
P03a	13873	20-1	1500	Sat	Polish Intel.	BPSK-63	(AB)
P03a	13873	20-1	1500	Sat	Polish Intel.	BPSK-63	(AB)
P03a	13873	20-1	1505	Sat	Polish Intel.	BPSK-63	(AB)
P03a	13873	20-1	1505	Sat	Polish Intel.	BPSK-63	(AB)
P03a	13470	21-1	1410	Sun	Polish Intel.	BPSK-63	(AB)
P03a	13470	21-1	1415	Sun	Polish Intel.	BPSK-63	(AB)
P03a	16112	21-1	1440	Sun	Polish Intel.	BPSK-63	(AB)
P03a	16112	21-1	1445	Sun	Polish Intel.	BPSK-63	(AB)
P03a	8680	21-1	1500	Sun	Polish Intel.	BPSK-63	(AB)
P03a	8680	21-1	1505	Sun	Polish Intel.	BPSK-63	(AB)
P03a	5371	21-1	1725	Sun	Polish Intel.	BPSK-63	(AB)
P03a	5371	21-1	1730	Sun	Polish Intel.	BPSK-63	(AB)
P03a	11100	22-1	1635	Mon	Polish Intel.	BPSK-63	(AB)
P03a	11100	22-1	1640	Mon	Polish Intel.	BPSK-63	(AB)
P03a	5371	23-1	1725	Tue	Polish Intel.	BPSK-63	(AB)
P03a	5371	23-1	1730	Tue	Polish Intel.	BPSK-63	(AB)
P03a	10487	24-1	1225	Wed	Polish Intel.	BPSK-63	(AB)
P03a	10487	24-1	1230	Wed	Polish Intel.	BPSK-63	(AB)
P03a	6986	24-1	1435	Wed	Polish Intel.	BPSK-63	(AB)
P03a	6986	24-1	1440	Wed	Polish Intel.	BPSK-63	(AB)
P03a	13873	24-1	1500	Wed	Polish Intel.	BPSK-63	(AB)
P03a	13873	24-1	1505	Wed	Polish Intel.	BPSK-63	(AB)



P03a	16112	26-1	1440	Fri	Polish Intel.	BPSK-63	(AB)
P03a	16112	26-1	1445	Fri	Polish Intel.	BPSK-63	(AB)
P03a	8680	26-1	1500	Fri	Polish Intel.	BPSK-63	(AB)
P03a	8680	26-1	1505	Fri	Polish Intel.	BPSK-63	(AB)
P03a	11100	26-1	1635	Fri	Polish Intel.	BPSK-63	(AB/MPJ)
P03a	11100	26-1	1640	Fri	Polish Intel.	BPSK-63	(AB)
P03a	10487	27-1	1225	Sat	Polish Intel.	BPSK-63	(AB)
P03a	10487	27-1	1230	Sat	Polish Intel.	BPSK-63	(AB)
P03a	6986	27-1	1435	Sat	Polish Intel.	BPSK-63	(AB)
P03a	6986	27-1	1440	Sat	Polish Intel.	BPSK-63	(AB)
P03a	13470	28-1	1410	Sun	Polish Intel.	BPSK-63	(AB)
P03a	13470	28-1	1415	Sun	Polish Intel.	BPSK-63	(AB)
P03a	16112	28-1	1440	Sun	Polish Intel.	BPSK-63	(AB)
P03a	16112	28-1	1445	Sun	Polish Intel.	BPSK-63	(AB)
P03a	5371	28-1	1725	Sun	Polish Intel.	BPSK-63	(AB)
P03a	5371	28-1	1730	Sun	Polish Intel.	BPSK-63	(AB)
P03a	13470	29-1	1410	Mon	Polish Intel.	BPSK-63	(AB)
P03a	13470	29-1	1415	Mon	Polish Intel.	BPSK-63	(AB)
P03a	11100	29-1	1635	Mon	Polish Intel.	BPSK-63	(AB)
P03a	11100	29-1	1640	Mon	Polish Intel.	BPSK-63	(AB)
P03a	5371	30-1	1725	Tue	Polish Intel.	BPSK-63	(AB)
P03a	5371	30-1	1730	Tue	Polish Intel.	BPSK-63	(AB)
P03a	10487	31-1	1225	Wed	Polish Intel.	BPSK-63	(AB)
P03a	10487	31-1	1230	Wed	Polish Intel.	BPSK-63	(AB)
P03a	13873	31-1	1500	Wed	Polish Intel.	BPSK-63	(AB)
P03a	13873	31-1	1505	Wed	Polish Intel.	BPSK-63	(AB)
P03b	10800	3-1	1120	Wed	Polish Intel.	QPSK-63	(AB)
P03b	10800	3-1	1125	Wed	Polish Intel.	QPSK-63	(AB)
P03b	4840	3-1	2035	Wed	Polish Intel.	QPSK-63	(AB)
P03b	4840	3-1	2040	Wed	Polish Intel.	QPSK-63	(AB)
P03b	4840	5-1	2035	Fri	Polish Intel.	QPSK-63	(AB)
P03b	4840	5-1	2040	Fri	Polish Intel.	QPSK-63	(AB)
P03b	10800	10-1	1120	Wed	Polish Intel.	QPSK-63	(AB)
P03b	10800	10-1	1125	Wed	Polish Intel.	QPSK-63	(AB)
P03b	4840	10-1	2035	Wed	Polish Intel.	QPSK-63	(AB)
P03b	4840	10-1	2040	Wed	Polish Intel.	QPSK-63	(AB)
P03b	4840	12-1	2035	Fri	Polish Intel.	QPSK-63	(AB)
P03b	4840	12-1	2040	Fri	Polish Intel.	QPSK-63	(AB)
P03b	10800	17-1	1120	Wed	Polish Intel.	QPSK-63	(AB)
P03b	10800	17-1	1125	Wed	Polish Intel.	QPSK-63	(AB)
P03b	4840	17-1	2035	Wed	Polish Intel.	QPSK-63	(AB)
P03b	4840	17-1	2040	Wed	Polish Intel.	QPSK-63	(AB)
P03b	4840	19-1	2035	Fri	Polish Intel.	QPSK-63	(AB)
P03b	4840	19-1	2040	Fri	Polish Intel.	QPSK-63	(AB)
P03b	10800	24-1	1120	Wed	Polish Intel.	QPSK-63	(AB)
P03b	10800	24-1	1125	Wed	Polish Intel.	QPSK-63	(AB)
P03b	4840	24-1	2035	Wed	Polish Intel.	QPSK-63	(AB)
P03b	4840	24-1	2040	Wed	Polish Intel.	QPSK-63	(AB)
P03b	4840	26-1	2035	Fri	Polish Intel.	QPSK-63	(AB)
P03b	4840	26-1	2040	Fri	Polish Intel.	QPSK-63	(AB)
P03b	10800	28-1	1120	Sun	Polish Intel.	QPSK-63	(AB)
P03b	10800	28-1	1125	Sun	Polish Intel.	QPSK-63	(AB)
P03b	10800	31-1	1120	Wed	Polish Intel.	QPSK-63	(AB)
P03b	10800	31-1	1125	Wed	Polish Intel.	QPSK-63	(AB)
P03b	4840	31-1	2035	Wed	Polish Intel.	QPSK-63	(AB)
P03b	4840	31-1	2040	Wed	Polish Intel.	QPSK-63	(AB)
Q26	4243	1-1	1141	Mon	Message //9054	4+4 QPSK 75/3000 LSB	(JPL)
Q26	9054	1-1	1141	Mon	Message //4243	4+4 QPSK 75/3000 LSB	(JPL)
RADv	4380	3-1	0844	Wed	Tracking (Russian Voice)	USB	(F5JBR)
RADv	5241	3-1	0918	Wed	Tracking (Russian Voice)	USB	(F5JBR)
RADv	3400	6-1	1330	Sat	Tracking (Russian Voice)	USB	(F5JBR)
S06	7523	5-1	2000	Fri	483 483 483 00000	USB	(AB/HFD)
S06	5305	5-1	2100	Fri	483 483 483 00000	USB	(HFD)
S06	3897	6-1	2000	Sat	263 263 263 00000	USB	(AB/HFD)
S06	3302	6-1	2100	Sat	263 263 263 00000	USB	(AB/HFD)

S06	5410	7-1	1730	Sun	480 532 41 68128 53518 23246 ... 94601 82040 46795 532 41 00000	USB	(Benka)
S06	6792	14-1	1022	Sun	Unscheduled transmission 480 359 42 49563 01154 35760 ... 31812 31821 27269 359 42 00000	USB	(Kalv)
S06	7523	19-1	2000	Fri	483 483 483 00000	USB	(MPJ)
S06	5305	19-1	2100	Fri	483 483 483 00000	USB	(AB)
S06	3897	20-1	2000	Sat	263 263 263 00000	USB	(AB)
S06	8116	21-1	1000	Sun	480 937 44 02233 32666 02585 ... 27048 56151 54890 937 44 00000	USB	(qsr711)
S06	6792	21-1	1030	Sun	480 937 44 02233 32666 02585 ... 27048 56151 54890 937 44 00000	USB	(qsr711/kalv)
S06	15721	22-1	0400	Mon	480 925 60 96156	USB	(HFD)
S06	16243	25-1	0830	Thu	842 619 37 90836	USB	(HFD)
S06	13469	25-1	0930	Thu	842	USB	(HFD-HK)
S06	8116	30-1	1007	Tue	i.p. 01790 18411 66539 ... 02521 55044 77254 629 43 00000	USB	(ES)
S06s	8057	1-1	0830	Mon	371 462 5 44820 46186 83893 45684 87723 462 5 00000	USB	(AB)
S06s	8530	1-1	0840	Mon	371 462 5 44820 46186 83893 45684 87723 462 5 00000	USB	(AB)
S06s	14675	1-1	0900	Mon	872 463 5 46685 85750 43736 32164 17431 463 5 00000	USB	(AB)
S06s	12830	1-1	0910	Mon	872 463 5 46685 85750 43736 32164 17431 463 5 00000	USB	(AB)
S06s	8420	1-1	1300	Mon	831 295 6 80533 46826 83077 91559 33577 84890 295 6 00000	USB	(AB)
S06s	10635	1-1	1310	Mon	831 295 6 80533 46826 83077 91559 33577 84890 295 6 00000	USB	(AB)
S06s	16145	2-1	0600	Tue	438 269 5 44107 46833 25684 83514 42334 269 5 00000	USB	(AB)
S06s	14240	2-1	0610	Tue	438 269 5 44107 46833 25684 83514 42334 269 5 00000	USB	(AB)
S06s	5250	2-1	0700	Tue	374 529 6 98870 47230 90367 46436 58091 39006 529 6 00000	USB	(AB)
S06s	6320	2-1	0715	Tue	374 529 6 98870 47230 90367 46436 58091 39006 529 6 00000	USB	(AB)
S06s	7410	2-1	0730	Tue	427 863 5 33699 39998 30667 35947 83964 863 5 00000	USB	(AB)
S06s	11532	2-1	0740	Tue	427 863 5 33699 39998 30667 35947 83964 863 5 00000	USB	(AB)
S06s	11945	2-1	0800	Tue	352 801 6 35861 33432 89319 32494 37142 32842 801 6 00000	USB	(AB)
S06s	13195	2-1	0810	Tue	352 801 6 35861 33432 89319 32494 37142 32842 801 6 00000	USB	(AB)
S06s	6440	2-1	1000	Tue	893 407 5 37218 30443 35801 32940 43079 407 5 00000	USB	(AB-UKR)
S06s	5660	2-1	1010	Tue	893 407 5 37218 30443 35801 32940 43079 407 5 00000	USB	(AB-UKR)
S06s	5035	2-1	1100	Tue	754 293 6 40244 36012 38323 47552 43630 40846 293 6 00000	USB	(AB-UKR/MPJ)
S06s	5975	2-1	1110	Tue	754 293 6 40244 36012 38323 47552 43630 40846 293 6 00000	USB	(AB-UKR/MPJ)
S06s	6845	2-1	1500	Tue	537 921 6 38453 48323 33885 31830 34645 38914 921 6 00000	USB	(AB/MPJ)
S06s	9170	2-1	1510	Tue	537 921 6 38453 48323 33885 31830 34645 38914 921 6 00000	USB	(AB/MPJ)
S06s	8417	3-1	0820	Wed	471 269 5 49314 47194 40583 33705 32293 269 5 00000	USB	(AB)
S06s	7062	3-1	0830	Wed	464 218 5 44266 84320 33826 24717 27795 218 5 00000	USB	(AB)
S06s	9262	3-1	0830	Wed	471 269 5 49314 47194 40583 33705 32293 269 5 00000	USB	(AB)
S06s	11535	3-1	0830	Wed	745 910 6 20702 88959 89821 42097 88475 24076 910 6 00000	USB	(AB)
S06s	10532	3-1	0840	Wed	464 218 5 44266 84320 33826 24717 27795 218 5 00000	USB	(AB)
S06s	11830	3-1	0840	Wed	745 910 6 20702 88959 89821 42097 88475 24076 910 6 00000	USB	(AB)
S06s	12365	3-1	1000	Wed	729 480 5 20328 25929 47224 22930 38076 480 5 00000	USB	(AB)
S06s	14280	3-1	1010	Wed	729 480 5 20328 25929 47224 22930 38076 480 5 00000	USB	(AB)
S06s	8812	4-1	0930	Thu	314 590 6 49314 47194 40583 33705 32293 44266 590 6 00000	USB	(AB)
S06s	9540	4-1	0940	Thu	314 590 6 49314 47194 40583 33705 32293 44266 590 6 00000	USB	(AB)
S06s	12155	4-1	1200	Thu	425 983 6 45724 39590 94619 33023 33902 47988 983 6 00000	USB	(AB/MPJ)
S06s	10920	4-1	1210	Thu	425 983 6 45724 39590 94619 33023 33902 47988 983 6 00000	USB	(AB/MPJ)
S06s	5765	5-1	0900	Fri	624 971 5 46493 33984 30837 83476 43890 971 5 00000	USB	(AB)
S06s	6315	5-1	0910	Fri	624 971 5 46493 33984 30837 83476 43890 971 5 00000	USB	(AB)
S06s	11780	5-1	0930	Fri	516 940 7 35415 40864 38771 39943 40136 35073 40262 940 7 00000	USB	(AB)

S06s	12570	5-1	0940	Fri	516 940 7 35415 40864 38771 39943 40136 35073 40262 940 7 00000	USB	(AB)
S06s	8680	6-1	0800	Sat	254 973 6 54990 38921 78229 02025 87291 33661 973 6 00000	USB	(AB)
S06s	8260	6-1	0810	Sat	254 973 6 54990 38921 78229 02025 87291 33661 973 6 00000	USB	(AB)
S06s	8057	8-1	0830	Mon	371 462 5 44820 46186 83893 45684 87723 462 5 00000	USB	(AB)
S06s	8530	8-1	0840	Mon	371 462 5 44820 46186 83893 45684 87723 462 5 00000	USB	(AB)
S06s	14675	8-1	0900	Mon	872 463 5 46685 85750 43736 32164 17431 463 5 00000	USB	(AB-UKR)
S06s	12830	8-1	0910	Mon	872 463 5 46685 85750 43736 32164 17431 463 5 00000	USB	(AB)
S06s	8420	8-1	1300	Mon	831 295 6 80533 46826 83077 91559 33577 84890 295 6 00000	USB	(AB)
S06s	10635	8-1	1310	Mon	831 295 6 80533 46826 83077 91559 33577 84890 295 6 00000	USB	(AB)
S06s	16145	9-1	0600	Tue	438 269 5 44107 46833 25684 83514 42334 269 5 00000	USB	(AB-UKR)
S06s	14240	9-1	0610	Tue	438 269 5 44107 46833 25684 83514 42334 269 5 00000	USB	(AB-UKR)
S06s	5250	9-1	0700	Tue	374 529 6 98870 47230 90367 46436 58091 39006 529 6 00000	USB	(AB)
S06s	6320	9-1	0715	Tue	374 529 6 98870 47230 90367 46436 58091 39006 529 6 00000	USB	(AB)
S06s	7410	9-1	0730	Tue	427 863 5 33699 39998 30667 35947 83964 863 5 00000	USB	(AB)
S06s	11532	9-1	0740	Tue	427 863 5 33699 39998 30667 35947 83964 863 5 00000	USB	(AB)
S06s	11945	9-1	0800	Tue	352 801 6 35861 33432 89319 32494 37142 32842 801 6 00000	USB	(AB)
S06s	13195	9-1	0810	Tue	352 801 6 35861 33432 89319 32494 37142 32842 801 6 00000	USB	(AB)
S06s	6440	9-1	1000	Tue	893 407 5 37218 30443 35801 32940 43079 407 5 00000	USB	(AB)
S06s	5660	9-1	1010	Tue	893 407 5 37218 30443 35801 32940 43079 407 5 00000	USB	(AB)
S06s	5035	9-1	1100	Tue	754 293 6 40244 36012 38323 47552 43630 40846 293 6 00000	USB	(AB/MPJ)
S06s	5975	9-1	1110	Tue	754 293 6 40244 36012 38323 47552 43630 40846 293 6 00000	USB	(AB/MPJ)
S06s	6845	9-1	1500	Tue	537 921 6 38453 48323 33885 31830 34645 38914 921 6 00000	USB	(AB/MPJ)
S06s	9170	9-1	1510	Tue	537 921 6 38453 48323 33885 31830 34645 38914 921 6 00000	USB	(AB/MPJ)
S06s	8417	10-1	0820	Wed	471 269 5 49314 47194 40583 33705 32293 269 5 00000	USB	(AB)
S06s	7062	10-1	0830	Wed	464 218 5 44266 84320 33826 24717 27795 218 5 00000	USB	(AB)
S06s	9262	10-1	0830	Wed	471 269 5 49314 47194 40583 33705 32293 269 5 00000	USB	(AB)
S06s	11535	10-1	0830	Wed	745 910 6 20702 88959 89821 42097 88475 24076 910 6 00000	USB	(AB)
S06s	10532	10-1	0840	Wed	464 218 5 44266 84320 33826 24717 27795 218 5 00000	USB	(AB)
S06s	11830	10-1	0840	Wed	745 910 6 20702 88959 89821 42097 88475 24076 910 6 00000	USB	(AB)
S06s	12365	10-1	1000	Wed	729 480 5 20328 25929 47224 22930 38076 480 5 00000	USB	(AB)
S06s	14280	10-1	1010	Wed	729 480 5 20328 25929 47224 22930 38076 480 5 00000	USB	(AB)
S06s	8812	11-1	0930	Thu	314 590 6 49314 47194 40583 33705 32293 44266 590 6 00000	USB	(AB)
S06s	9540	11-1	0940	Thu	314 590 6 49314 47194 40583 33705 32293 44266 590 6 00000	USB	(AB)
S06s	12155	11-1	1200	Thu	425 983 6 45724 39590 94619 33023 33902 47988 983 6 00000	USB	(AB/MPJ)
S06s	10920	11-1	1210	Thu	425 983 6 45724 39590 94619 33023 33902 47988 983 6 00000	USB	(AB/MPJ)
S06s	5765	12-1	0900	Fri	624 971 5 46493 33984 30837 83476 43890 971 5 00000	USB	(AB)
S06s	6315	12-1	0910	Fri	624 971 5 46493 33984 30837 83476 43890 971 5 00000	USB	(AB)
S06s	11780	12-1	0930	Fri	516 940 7 35415 40864 38771 39943 40136 35073 40262 940 7 00000	USB	(AB)
S06s	12570	12-1	0940	Fri	516 940 7 35415 40864 38771 39943 40136 35073 40262 940 7 00000	USB	(AB)
S06s	13470	14-1	0630	Sun	524 873 6 32314 34896 82738 36376 35685 95693 873 6 00000	USB	(AB-UKR)
S06s	16515	14-1	0640	Sun	524 873 6 32314 34896 82738 36376 35685 95693 873 6 00000	USB	(AB-UKR)
S06s	8057	15-1	0830	Mon	371 896 5 32086 15283 73005 88341 38382 896 5 00000	USB	(AB)
S06s	8530	15-1	0840	Mon	371 896 5 32086 15283 73005 88341 38382 896 5 00000	USB	(AB)
S06s	14675	15-1	0900	Mon	872 519 6 56072 10471 11141 84895 96075 81620 519 6 00000	USB	(AB)



[illegible]

S06s	5250	23-1	0700	Tue	374 526 8 99742 10854 67420 86230 20840 86566 32828 32244 526 8 00000	USB	(AB)
S06s	6320	23-1	0715	Tue	374 526 8 99742 10854 67420 86230 20840 86566 32828 32244 526 8 00000	USB	(AB)
S06s	7410	23-1	0730	Tue	427 950 6 86339 99811 38633 33885 34079 32190 950 6 00000	USB	(AB)
S06s	11532	23-1	0740	Tue	427 950 6 86339 99811 38633 33885 34079 32190 950 6 00000	USB	(AB)
S06s	11945	23-1	0800	Tue	352 897 6 42191 30821 33725 37661 30885 49334 897 6 00000	USB	(AB-GRC)
S06s	13195	23-1	0810	Tue	352 897 6 42191 30821 33725 37661 30885 49334 897 6 00000	USB	(AB-GRC)
S06s	6440	23-1	1000	Tue	893 547 6 34559 45369 43003 52322 36541 46543 547 6 00000	USB	(AB-AUT/MPJ)
S06s	5660	23-1	1010	Tue	893 547 6 34559 45369 43003 52322 36541 46543 547 6 00000	USB	(AB/MPJ)
S06s	5035	23-1	1100	Tue	754 823 6 35390 88913 95577 33198 44591 67953 823 6 00000	USB	(AB-AUT)
S06s	5975	23-1	1110	Tue	754 823 6 35390 88913 95577 33198 44591 67953 823 6 00000	USB	(AB-AUT)
S06s	6845	23-1	1500	Tue	537 419 6 49002 32571 33313 40597 91430 40489 419 6 00000	USB	(AB/MPJ)
S06s	9170	23-1	1510	Tue	537 419 6 49002 32571 33313 40597 91430 40489 419 6 00000	USB	(AB/MPJ)
S06s	8417	24-1	0820	Wed	471 286 5 34614 48756 91866 20315 30713 286 5 00000	USB	(AB)
S06s	7062	24-1	0830	Wed	464 972 5 58672 72401 87814 53148 07393 972 5 00000	USB	(AB)
S06s	9262	24-1	0830	Wed	471 286 5 34614 48756 91866 20315 30713 286 5 00000	USB	(AB)
S06s	11535	24-1	0830	Wed	745 813 6 51326 41878 48807 28229 33118 80638 813 6 00000	USB	(AB)
S06s	10532	24-1	0840	Wed	464 972 5 58672 72401 87814 53148 07393 972 5 00000	USB	(AB)
S06s	11830	24-1	0840	Wed	745 813 6 51326 41878 48807 28229 33118 80638 813 6 00000	USB	(AB)
S06s	12365	24-1	1000	Wed	729 463 5 31514 23800 35288 85892 44243 463 5 00000	USB	(AB)
S06s	14280	24-1	1010	Wed	729 463 5 31514 23800 35288 85892 44243 463 5 00000	USB	(AB)
S06s	8812	25-1	0930	Thu	314 267 5 52401 63919 96699 14600 74248 267 5 00000	USB	(AB/MPJ)
S06s	9540	25-1	0940	Thu	314 267 5 52401 63919 96699 14600 74248 267 5 00000	USB	(AB/MPJ)
S06s	12155	25-1	1200	Thu	425 890 6 88620 58069 61732 74537 57440 10598 890 6 00000	USB	(AB)
S06s	10920	25-1	1210	Thu	425 890 6 88620 58069 61732 74537 57440 10598 890 6 00000	USB	(AB)
S06s	5765	26-1	0900	Fri	624 931 5 03593 34746 34315 32217 47490 931 5 00000	USB	(AB)
S06s	6315	26-1	0910	Fri	624 931 5 03593 34746 34315 32217 47490 931 5 00000	USB	(AB)
S06s	11780	26-1	0930	Fri	516 927 8 84780 43814 45330 40293 44460 34814 36147 61289 927 8 00000	USB	(AB)
S06s	12570	26-1	0940	Fri	516 927 8 84780 43814 45330 40293 44460 34814 36147 61289 927 8 00000	USB	(AB)
S06s	13470	28-1	0630	Sun	524 807 6 65883 43894 35315 39437 31356 43293 807 6 00000	USB	(AB-UKR)
S06s	16515	28-1	0640	Sun	524 807 6 65883 43894 35315 39437 31356 43293 807 6 00000	USB	(AB-UKR)
S06s	8057	29-1	0830	Mon	371 371 371 00000	USB	(AB)
S06s	8530	29-1	0840	Mon	371 371 371 00000	USB	(AB)
S06s	14675	29-1	0900	Mon	872 842 842 00000	USB	(AB)
S06s	12830	29-1	0910	Mon	872 842 842 00000	USB	(AB)
S06s	8420	29-1	1248	Mon	Test: 831 831	USB	(MPJ)
S06s	8420	29-1	1300	Mon	831 831 831 00000	USB	(AB)
S06s	10635	29-1	1310	Mon	831 831 831 00000	USB	(AB)
S06s	16145	30-1	0600	Tue	438 438 438 00000	USB	(AB)
S06s	14240	30-1	0610	Tue	438 438 438 00000	USB	(AB)
S06s	5250	30-1	0700	Tue	374 374 374 00000	USB	(AB)
S06s	6320	30-1	0715	Tue	374 374 374 00000	USB	(AB)
S06s	7410	30-1	0730	Tue	427 427 427 00000	USB	(AB)
S06s	11532	30-1	0740	Tue	427 427 427 00000	USB	(AB)
S06s	11945	30-1	0800	Tue	352 352 352 00000	USB	(AB)
S06s	13195	30-1	0810	Tue	352 352 352 00000	USB	(AB)
S06s	6440	30-1	1000	Tue	893 893 893 00000	USB	(AB)
S06s	5660	30-1	1010	Tue	893 893 893 00000	USB	(AB)

S06s	5035	30-1	1100	Tue	754 754 754 00000	USB	(AB-AUT/MPJ)
S06s	5975	30-1	1110	Tue	754 754 754 00000	USB	(AB-AUT/MPJ)
S06s	6845	30-1	1500	Tue	537 537 537 00000	USB	(AB)
S06s	9170	30-1	1510	Tue	537 537 537 00000	USB	(AB)
S06s	8417	31-1	0820	Wed	471 471 471 00000	USB	(AB)
S06s	7062	31-1	0830	Wed	464 464 464 00000	USB	(AB)
S06s	9262	31-1	0830	Wed	471 471 471 00000	USB	(AB)
S06s	11535	31-1	0830	Wed	745 745 745 00000	USB	(AB)
S06s	10532	31-1	0840	Wed	464 464 464 00000	USB	(AB)
S06s	11830	31-1	0840	Wed	745 745 745 00000	USB	(AB)
S06s	12365	31-1	1000	Wed	729 729 729 00000	USB	(AB)
S06s	14280	31-1	1010	Wed	729 729 729 00000	USB	(AB)
S11a	11559	1-1	1015	Mon	472/00	USB	(AB)
S11a	4828	2-1	0455	Tue	327/00	USB	(AB)
S11a	7840	2-1	1020	Tue	420/00	USB	(AB)
S11a	10728	3-1	1540	Wed	565/00	USB	(MPJ)
S11a	11486	3-1	1850	Wed	286/00	USB	(AB/MPJ)
S11a	5815	3-1	1955	Wed	577/00	USB	(AB/MPJ)
S11a	7840	5-1	1020	Fri	425/00	USB	(AB)
S11a	5815	5-1	1955	Fri	379/00	USB	(AB/MPJ)
S11a	10728	6-1	1540	Sat	566/00	USB	(AB/MPJ)
S11a	5082	7-1	2050	Sun	486/00	USB	(AB/HFD)
S11a	4828	9-1	0455	Tue	322/32 Vnimanaye 72406 07160 98072 ... 08519 12453 48024 Vnimanaye, rpt msg, konets	USB	(AB)
S11a	10246	9-1	0735	Tue	381/00	USB	(ES)
S11a	7840	9-1	1020	Tue	427/00	USB	(AnEur)
S11a	10728	10-1	1540	Wed	560/00	USB	(AB)
S11a	11486	10-1	1850	Wed	388/00	USB	(AB)
S11a	5815	10-1	1955	Wed	370/00	USB	(AB/MPJ)
S11a	5082	10-1	2050	Wed	485/00	USB	(AB)
S11a	10246	11-1	0735	Thu	384/00	USB	(ES)
S11a	11559	11-1	1015	Thu	472/00	USB	(AB)
S11a	11559	11-1	1015	Thu	472/00	USB	(AB)
S11a	4828	12-1	0455	Fri	322/32 Vnimanaye 72406 07160 98072 ... 08519 12453 48024 Vnimanaye, rpt msg, konets	USB	(AB)
S11a	7840	12-1	1020	Fri	421/00	USB	(AB)
S11a	5815	12-1	1955	Fri	376/00	USB	(AB/MPJ)
S11a	11486	13-1	1850	Sat	282/00	USB	(AB)
S11a	5082	14-1	2050	Sun	482/00	USB	(AB)
S11a	11559	15-1	1015	Mon	478/35 Vnimanaye 80612 59903 42022 ... 09219 41988 75852 Vnimanaye, rpt msg, konets	USB	(AB)
S11a	10246	16-1	0735	Tue	389/00	USB	(ES)
S11a	7840	16-1	1020	Tue	421/30 Vnimanaye 02900 32126 73952 ... 25679 80063 93822 Vnimanaye, rpt msg, konets	USB	(AB)
S11a	10728	17-1	1540	Wed	560/34 Vnimanaye 48858 28779 05072 ... 14485 51971 55241	USB	(MPJ)
S11a	11486	17-1	1850	Wed	384/30 Vnimanaye ....	USB	(AB)
S11a	5815	17-1	1955	Wed	371/40 Vnimanaye 83992 35539 08229 ... 83177 87289 42259 Vnimanaye, rpt msg, konets	USB	(AB/MPJ)
S11a	5082	17-1	2050	Wed	483/40 Vnimanaye 59438 42508 35092 ... 05900 13493 25202 Vnimanaye, rpt msg, konets	USB	(AB)
S11a	10246	18-1	0735	Thu	387/00	USB	(AB-UKR)
S11a	7840	19-1	1020	Fri	421/30 Vnimanaye 02900 32126 73952 ... 25679 80063 93822 Vnimanaye, rpt msg, konets	USB	(AB)
S11a	5815	19-1	1955	Fri	371/40 Vnimanaye 83992 35539 08229 ... 83177 87289 42259 Vnimanaye, rpt msg, konets	USB	(AB/MPJ)
S11a	10728	20-1	1540	Sat	560/34 Vnimanaye 48858 28779 05072 ... 14584 51971 55241 Vnimanaye, rpt msg, konets	USB	(AB/GHn/MPJ)
S11a	11486	20-1	1850	Sat	285/00	USB	(AB)
S11a	5082	21-1	2050	Sun	483/40 Vnimanaye 59438 42508 35092 ... 05900 13493 25202 Vnimanaye, rpt msg, konets	USB	(AB)
S11a	10246	23-1	0744	Tue	Message i.p.	USB	(AB)
S11a	7840	23-1	1020	Tue	425/00	USB	(AB)
S11a	10728	24-1	1540	Wed	563/00	USB	(AB-AUT/MPJ)
S11a	5815	24-1	1955	Wed	372/00	USB	(AB/MPJ)
S11a	5082	24-1	2050	Wed	486/00	USB	(AB)
S11a	10246	25-1	0735	Thu	380/40 Vnimanaye 74363 25289 48291 ... 64022 04083	USB	(AB-AUT)

37337 Vnianiye, rpt msg, konets							
S11a	11559	25-1	1015	Thu	472/00 very poor signal	USB	(AB-AUT)
S11a	4828	26-1	0455	Fri	322/00	USB	(AB)
S11a	7840	26-1	1020	Fri	426/00	USB	(AB)
S11a	5815	26-1	1955	Fri	378/00	USB	(AB)
S11a	10728	27-1	1540	Sat	565/00	USB	(AB/MPJ)
S11a	11486	27-1	1850	Sat	287/00	USB	(AB-G)
S11a	5082	28-1	2050	Sun	486/00	USB	(AB)
S11a	11559	29-1	1015	Mon	472/00	USB	(AB)
S11a	10246	30-1	0735	Tue	384/00	USB	(HFD)
S11a	7840	30-1	1020	Tue	421/00	USB	(AB)
S11a	10728	31-1	1540	Wed	566/00	USB	(AB/MPJ)
S11a	11486	31-1	1850	Wed	283/00	USB	(MPJ)
S11a	5815	31-1	1955	Wed	378/00	USB	(AB/MPJ)
S11a	5082	31-1	2050	Wed	481/00	USB	(AB)
S28	4625	2-1	1603	Tue	Buzzer channel marker	USB	(AB)
S28	4625	9-1	1332	Tue	i.p. 9 78 98 66 VODOSBORNYY 84 76 83 53 Prijom	USB	(ES)
S28	4625	9-1	1358	Tue	i.p. AFOBEG 45 91 31 55 KEROSINKA 21 67 06 36 Prijom	USB	(ES)
S28	4625	17-1	1023	Wed	ZhUOZ 59 027 BOBOMIR 31 51 41 31 AKTINOMETR 13 78 10 13	USB	(ES-POL)
S28	4625	18-1	1053	Thu	ZhUOZ 09 464 sboj sboj sboj	USB	(ES-POL)
S28	4625	18-1	1057	Thu	ZhUOZ 09 464 KLYuChOKLIN 32 11 12 09 VALYuTChIK 63 59 04 65	USB	(ES-POL)
S28	4625	18-1	1107	Thu	ZhUOZ 25 705 LABORATORIYa 04 27 94 48	USB	(ES-POL)
S28	4625	18-1	1141	Thu	ZhUOZ 54 924 BENZOIL 59 99 61 93 BENZIN 63 68 26 80	USB	(ES-POL)
S28	4625	18-1	1231	Thu	ZhUOZ 68 845 KASH TAN 92 88 45 81	USB	(ES-POL)
S28	4625	18-1	1333	Thu	ZhUOZ 70 580 BRIGOSEKS 29 54 97 18	USB	(ES-POL)
S30	3756	1-1	1701	Mon	Pip channel marker	USB	(AB)
S30	3756	2-1	1602	Tue	Pip channel marker	USB	(AB)
S32	3828	2-1	1602	Tue	Squeaky Wheel channel marker	USB	(AB)
S4020	4020	6-1	1950	Sat	Air Horn channel marker	USB	(AB)
S4524	4524	1-1	1749	Mon	Dash channel marker	USB	(AB)
S4524	4524	2-1	1602	Tue	Dash channel marker	USB	(AB)
S4524	4524	11-1	1813	Thu	Dash channel marker	USB	(AB)
S4524	4524	13-1	0734	Sat	Dash channel marker	USB	(AB)
S4524	4524	23-1	1626	Tue	Dash channel marker	USB	(AB)
S5292	3240	2-1	1608	Tue	Channel marker D	USB	(AB)
S6360	6360	10-1	0800	Wed	Goose channel marker	USB	(ML4)
S6360	6360	13-1	0735	Sat	Goose channel marker	USB	(AB)
UM03	7920	4-1	0917	Thu	AR 17 17 CK 100 CK 100 DATE 1618 TIME 1618 DATE 0401 DATE 0401 = NT6U5 3NT6U T6374 ... //8250, 8410 kHz	CW	(JPL-CHN)
UM03	8250	4-1	0917	Thu	AR 17 17 CK 100 CK 100 DATE 1618 TIME 1618 DATE 0401 DATE 0401 = NT6U5 3NT6U T6374 ... //7920, 8410 kHz	CW	(JPL-CHN)
UM03	8410	4-1	0917	Thu	AR 17 17 CK 100 CK 100 DATE 1618 TIME 1618 DATE 0401 DATE 0401 = NT6U5 3NT6U T6374 ... //7920, 8250 kHz	CW	(JPL-CHN)
UM03	7920	9-1	0934	Tue	TIME 1635 TIME 1635 DATE 0901 DATE 0901 = T6A7U 6U73D U4T5A 6D34T (Cont'd) AR //8250, 8410 kHz	CW	(JPL-CHN)
UM03	8250	9-1	0934	Tue	TIME 1635 TIME 1635 DATE 0901 DATE 0901 = T6A7U 6U73D U4T5A 6D34T (Cont'd) AR //7920, 8410 kHz	CW	(JPL-CHN)
UM03	8410	9-1	0934	Tue	TIME 1635 TIME 1635 DATE 0901 DATE 0901 = T6A7U 6U73D U4T5A 6D34T (Cont'd) AR //7920, 8250 kHz	CW	(JPL-CHN)
UM03	8250	13-1	0712	Sat	65 65 CK100 CK100 TIME 1513 TIME 1513 DATE 1301 DATE 1301 = LACRU DSVJM VYNRE ... AR //8410 kHz	CW	(F5JBR-CHN)
UM03	8410	13-1	0712	Sat	65 65 CK100 CK100 TIME 1513 TIME 1513 DATE 1301 DATE 1301 = LACRU DSVJM VYNRE ... AR //8250 kHz	CW	(F5JBR-CHN)
UM03	7920	13-1	0756	Sat	CQ de X2M MSG ENG 61 61 CK 100 TIME 1457 DATE 1301 = PJYAS JBEKW OLUSQ ... //8250, 8410 kHz	CW	(F5JBR-CHN)
UM03	8250	13-1	0756	Sat	CQ de X2M MSG ENG 61 61 CK 100 TIME 1457 DATE 1301 = PJYAS JBEKW OLUSQ ... //8410, 7920 kHz	CW	(F5JBR-CHN)
UM03	8410	13-1	0756	Sat	CQ de X2M MSG ENG 61 61 CK 100 TIME 1457 DATE 1301 = PJYAS JBEKW OLUSQ ... //7920, 8250 kHz	CW	(F5JBR-CHN)
UM03	8250	29-1	1928	Mon	i.p. AR CQ (x3) DE X2M (x2) VVV MSG ENG 81 81 CK 100 CK 100 TIME 1630 TIME 1630 DATE 2901 DATE 2901 = T6A7T 6U7.D U4T.. //8410 kHz	CW	(JPL-J)
UM03	8410	29-1	1928	Mon	i.p. AR CQ (x3) DE X2M (x2) VVV MSG ENG 81 81 CK 100 CK 100 TIME 1630 TIME 1630 DATE 2901 DATE 2901 = T6A7T 6U7.D U4T.. //8250 kHz	CW	(JPL-J)

UM10	3326	2-1	1726	Tue	10-mins net: U34D //4112 kHz	CW	(JPL-CHN)
UM10	4112	2-1	1726	Tue	10-mins net: U34D //3326 kHz	CW	(JPL-CHN)
UM10	3326	3-1	0928	Wed	10-minutes net: U34D //4112 kHz	CW	(F5JBR-J)
UM10	3326	3-1	0928	Wed	10-minutes net: U34D //4112 kHz	CW	(F5JBR-J)
UM10	4112	3-1	0928	Wed	10-minutes net: U34D //3326 kHz	CW	(F5JBR-J)
UM10	4112	3-1	0928	Wed	10-minutes net: U34D //3326 kHz	CW	(F5JBR-J)
UM10	3326	3-1	1122	Wed	10-mins net: U34D //4112 kHz	CW	(JPL-KOR)
UM10	4112	3-1	1122	Wed	10-mins net: U34D //3326 kHz	CW	(JPL-KOR)
UM10	3718	3-1	1841	Wed	10-minutes net: 7CJK	CW	(F5JBR-J)
UM10	3718	3-1	1841	Wed	10-minutes net: 7CJK	CW	(F5JBR-J)
UM10	3326	3-1	1845	Wed	10-minutes net: U34D //4112 kHz	CW	(F5JBR-J)
UM10	3326	3-1	1845	Wed	10-minutes net: U34D //4112 kHz	CW	(F5JBR-J)
UM10	4112	3-1	1845	Wed	10-minutes net: U34D //3326 kHz	CW	(F5JBR-J)
UM10	4112	3-1	1845	Wed	10-minutes net: U34D //3326 kHz	CW	(F5JBR-J)
UM10	5820	4-1	0850	Thu	10-minutes net: 7CJK	CW	(JPL-KOR)
UM10	3326	4-1	0854	Thu	10-minutes net: U34D //4112 kHz	CW	(JPL-KOR)
UM10	4112	4-1	0854	Thu	10-minutes net: U34D //3326 kHz	CW	(JPL-KOR)
UM10	3326	4-1	1458	Thu	10-minutes net: U34D //4112 kHz	CW	(JPL-KOR)
UM10	4112	4-1	1458	Thu	10-minutes net: U34D //3326 kHz	CW	(JPL-KOR)
UM10	5820	5-1	0842	Fri	10-minutes net: 7JCK	CW	(JPL-J)
UM10	3326	7-1	1730	Sun	10-minutes net: U34D //4112 kHz	CW	(JPL-CHN)
UM10	4112	7-1	1730	Sun	10-minutes net: U34D //3326 kHz	CW	(JPL-CHN)
UM10	3326	7-1	1800	Sun	10-minutes net: U34D //4112 kHz	CW	(JPL-CHN)
UM10	4112	7-1	1800	Sun	10-minutes net: U34D //3326 kHz	CW	(JPL-CHN)
UM10	3718	9-1	1010	Tue	10-minutes net: 7CJK	CW	(F5JBR-J)
UM10	3326	9-1	1020	Tue	10-minutes net: U34D //4112 kHz	CW	(F5JBR-J)
UM10	4112	9-1	1020	Tue	10-minutes net: U34D //3326 kHz	CW	(F5JBR-J)
UM10	3326	9-1	1423	Tue	10-minutes net: U34D //4412 kHz	CW	(JPL-J)
UM10	4412	9-1	1423	Tue	10-minutes net: U34D //3326 kHz	CW	(JPL-J)
UM10	6983	11-1	0542	Thu	10-minutes net: AW3Z	CW	(F5JBR-J)
UM10	5945	11-1	0620	Thu	10-minutes net: TPTS //6924 kHz	CW	(F5JBR-J)
UM10	6924	11-1	0620	Thu	10-minutes net: TPTS //5945 kHz	CW	(F5JBR-J)
UM10	5945	11-1	0720	Thu	10-minutes net: TPTS //6924 kHz	CW	(F5JBR-J)
UM10	6924	11-1	0720	Thu	10-minutes net: TPTS //5945 kHz	CW	(F5JBR-J)
UM10	3210	13-1	1912	Sat	10-minutes net: 7CJK //3718 kHz	CW	(JPL-CHN)
UM10	3718	13-1	1912	Sat	10-minutes net: 7CJK //3210 kHz	CW	(JPL-CHN)
UM10	3326	14-1	1626	Sun	10-minutes net: U34D //4112 kHz	CW	(JPL-J)
UM10	4112	14-1	1626	Sun	10-minutes net: U34D //3326 kHz	CW	(JPL-J)
UM10	5945	15-1	0652	Mon	10-minutes net: TPTS //6924 kHz	CW	(JPL-J)
UM10	6924	15-1	0652	Mon	10-minutes net: TPTS //5945 kHz	CW	(JPL-J)
UM10	5820	17-1	0812	Wed	10-minutes net: AW3Z //6983 kHz	CW	(JPL-J)
UM10	6983	17-1	0812	Wed	10-minutes net: AW3Z //5820 kHz	CW	(JPL-J)
UM10	5820	17-1	0847	Wed	10-minutes net: 7CJK //6983 kHz	CW	(JPL-J)
UM10	6983	17-1	0847	Wed	10-minutes net: 7CJK //5820 kHz	CW	(JPL-J)
UM10	3718	21-1	2145	Sun	10-minutes net: 7CJK	CW	(JPL-CHN)
UM10	4112	27-1	1625	Sat	10-minutes net: U34D	CW	(JPL-J)
UM10	3326	28-1	1358	Sun	10-minutes net: U34D //4112 kHz	CW	(JPL-J)
UM10	4112	28-1	1358	Sun	10-minutes net: U34D //3326 kHz	CW	(JPL-J)
UM10	3326	29-1	1554	Mon	10-minutes net: U34D //4112 kHz	CW	(JPL-CHN)
UM10	4112	29-1	1554	Mon	10-minutes net: U34D //3326 kHz	CW	(JPL-CHN)
V02a	7555	2-1	2057	Tue	Headers: 41542 54071 67312	LSB	(qsr711)
V07	18174	14-1	0100	Sun	183 183 183 000	USB	(Dan)
V07	18174	21-1	0100	Sun	183 183 183 1 8205 65 67615 44694 ....93095 26636 000 000	USB	(Dan)
V07	15874	21-1	0120	Sun	183 183 183 1 8205 65 67615 44694 ....93095 26636 000 000	USB	(Dan)
V07	14374	21-1	0140	Sun	183 183 183 1 8205 65 67615 44694 ....93095 26636 000 000	USB	(Dan)
V07	18174	28-1	0100	Sun	183 183 183 000	USB	(Dan)
V07	15874	28-1	0120	Sun	183 183 183 000	USB	(Dan)
V13	16257	5-1	0800	Fri	New Star Broadcasting	USB	(AB-CHN)
V15	657	6-1	1515	Sat	North Korean intelligence via PBS Pyongyang Pansong.. Messages in Korean //657, 3250, 3320, 6400 kHz	AM	(AB-J)
V15	3250	6-1	1515	Sat	North Korean intelligence via PBS Pyongyang Pansong.. Messages in Korean //657, 3250, 3320, 6400 kHz	AM	(AB-J)
V15	3320	6-1	1515	Sat	North Korean intelligence via PBS Pyongyang Pansong.. Messages in Korean //657, 3250, 3320, 6400 kHz	AM	(AB-J)



V15	6400	6-1	1515	Sat	North Korean intelligence via PBS Pyongyang Pansong.. Messages in Korean //657, 3250, 3320, 6400 kHz	AM	(AB-J)
V15	3320	20-1	1515	Sat	North Korean intelligence via PBS Pyongyang Pansong. Messages in Korean //6400 kHz	AM	(AB)
V15	6400	20-1	1515	Sat	North Korean intelligence via PBS Pyongyang Pansong. Messages in Korean //3320 kHz	AM	(AB)
V15	3320	25-1	1615	Thu	North Korean intelligence via PBS Pyongyang Pansong. Messages in Korean //6400 kHz	AM	(AB)
V15	6400	25-1	1615	Thu	North Korean intelligence via PBS Pyongyang Pansong. Messages in Korean //3320 kHz	AM	(AB)
V24	6310	3-1	1530	Wed	Music followed by a message in Korean	AM	(AB)
V24	5290	7-1	1430	Sun	Korean song, follow by a message in Korean	AM	(Phi)
V24	6310	8-1	1530	Mon	Music followed by a message in Korean	AM	(AB-J)
V24	5715	26-1	1500	Fri	Message in Korean	AM	(MDK2)
V24	5715	26-1	1500	Fri	Song followed by a message in Korean	AM	(AB)
V26	4243	1-1	0945	Mon	Messages in Chinese. Female operator //9054	USB	(JPL)
V26	4243	2-1	0019	Tue	Messages in Chinese. Female operator //9054	USB	(JPL)
V26	9054	2-1	0019	Tue	Messages in Chinese. Female operator //4243	USB	(JPL)
V26	4243	8-1	2353	Mon	Messages in Chinese. Female operator //9054	USB	(JPL)
V26	9054	8-1	2353	Mon	Messages in Chinese. Female operator //4243	USB	(JPL)
V28	3519	15-1	0930	Mon	Parrot. Messages in Korean. Female operator	AM	(HK)
V28	3050	15-1	0932	Mon	Parrot. Messages in Korean. Female operator	AM	(HK)
V28	3001	15-1	0934	Mon	Parrot. Messages in Korean. Male operator	AM	(HK)
V28	2595	15-1	0935	Mon	Parrot. Messages in Korean. Male operator	AM	(HK)
V28	4494	15-1	2103	Mon	Parrot. Test: 1-2-1-2 ... Male and female operators	AM	(HK)
V28	4494	15-1	2132	Mon	Parrot. Messages in Korean. Female operator	AM	(HK)
V28	4628	15-1	2132	Mon	Parrot. Messages in Korean. Female operator	AM	(HK)
V28	4986	15-1	2132	Mon	Parrot. Messages in Korean. Female operator	AM	(HK)
V28	3048	22-1	0933	Mon	Parrot. Message in Korean. Female operator	AM	(HK)
V28	3518	22-1	0933	Mon	Parrot. Message in Korean. Female operator	AM	(HK)
V28	3002	22-1	0935	Mon	Parrot. Message in Korean. Male operator	AM	(HK)
V28	2928	22-1	0936	Mon	Parrot. Message in Korean. Female operator	AM	(HK)
V28	3050	24-1	0953	Wed	Parrot. Message in Korean. Female operator. Ended at 0959 UTC. Very long transmission	AM	(HK)
V28	4494	24-1	0953	Wed	Parrot. Message in Korean. Female operator	AM	(HK)
V28	4628	24-1	0953	Wed	Parrot. Message in Korean. Female operator	AM	(HK)
V28	5169	24-1	0953	Wed	Parrot. Message in Korean. Male operator	AM	(HK)
V28	4628	24-1	2245	Wed	Parrot. Message in Korean i.p. Again a very long transmis- sion	AM	(HK)
V28	2932.5	25-1	0933	Thu	Parrot. Messages in Korean. Female operator	AM	(HK)
V28	3001	25-1	0937	Thu	Parrot. Messages in Korean. Female and male operators	AM	(HK)
V28	3048	25-1	0937	Thu	Parrot. Messages in Korean. Female operator	AM	(HK)
V28	3518	25-1	0937	Thu	Parrot. Messages in Korean. Female operator	AM	(HK)
V28	4494	27-1	2230	Sat	Parrot. Messages in Korean	AM	(HK)
V28	4630	27-1	2230	Sat	Parrot. Messages in Korean	AM	(HK)
V28	4978	27-1	2235	Sat	Parrot. Messages in Korean	AM	(HK)
V28	5166	27-1	2235	Sat	Parrot. Messages in Korean	AM	(HK)
V28	4492	30-1	2238	Tue	Parrot. Messages in Korean	AM	(HK)
V28	4624	30-1	2238	Tue	Parrot. Messages in Korean	AM	(HK)
V28	4978	30-1	2238	Tue	Parrot. Messages in Korean	AM	(HK)
VC01	5112	1-1	1200	Mon	Chinese Robot i.p.	USB	(AB-CHN)
VC01	5112	1-1	1314	Mon	Chinese Robot i.p.	USB	(AB-CHN)
VC01	5112	2-1	1312	Tue	Chinese Robot i.p.	USB	(AB-CHN)
VC01	4818	5-1	0804	Fri	Chinese Root i.p.	USB	(AB-CHN)
VC01	8121	10-1	0130	Wed	Chinese Robot	USB	(BW3-J)
VC01	4818	13-1	0614	Sat	Chinese Robot	LSB	(AB-CHN)
VC01	8121	13-1	0614	Sat	Chinese Robot	USB	(AB-CHN)
VC01	5251	17-1	2123	Wed	Chinese Robot i.p.	USB	(BW3-KOR)
VC01	4818	25-1	0607	Thu	Chinese Robot i.p.	LSB	(AB-CHN)
VC01	8121	25-1	0607	Thu	Chinese Robot i.p.	USB	(AB-CHN)
VC01	4818	31-1	0516	Wed	Chinese Robot	LSB	(AB-CHN)
VC01	8121	31-1	0516	Wed	Chinese Robot	USB	(AB-CHN)
VC03	6630	11-1	0310	Thu	Chinese Air Defense, OM calling numbers	USB	(BW3-THA)
VC03	6460	11-1	0319	Thu	Chinese Air Defense, OM calling numbers	USB	(BW3-THA)
X06	13575	12-1	1109	Fri	Mazielka. Sequence: 615243. Ends at 1109 UTC	MFSK-6	(AAI)
X06	9106	15-1	1655	Mon	Mazielka. Sequence: 532614	MFSK-6	(Danix)
X06	14512	16-1	0915	Tue	Mazielka. Sequence: 246531	MFSK-6	(Danix)

X06	13401	16-1	0933	Tue	Mazielka. Sequence: 154263	MFSK-6	(Danix)
X06	7773	17-1	1633	Wed	Mazielka. Sequence: 645321	MFSK-6	(Danix)
X06	6877	17-1	1656	Wed	Mazielka. Sequence: 645321	MFSK-6	(Danix)
X06	12178	18-1	0747	Thu	Mazielka. Sequence: 645321	MFSK-6	(Danix)
X06	9041	27-1	1622	Sat	Mazielka. Sequence: 645321	MFSK-6	(Danix)
X06	7773	27-1	1631	Sat	Mazielka. Sequence: 645321	MFSK-6	(Danix)
X06	6877	27-1	1633	Sat	Mazielka. Sequence: 645321	MFSK-6	(Danix)
X06	5785	27-1	1637	Sat	Mazielka. Sequence: 645321	MFSK-6	(Danix)
X06b	8535	12-1	0724	Fri	Mazielka. Sequence: 666666	MFSK-6	(ES)
X06b	12625	12-1	0906	Fri	Mazielka i.p. Sequence: 666666. Ended at 0940 UTC	MFSK-6	(AB)
X06b	13320	17-1	0754	Wed	Mazielka i.p. Sequence 111666 Ended at 0757 UTC	MFSK-6	(AB)
X06b	17230	17-1	1210	Wed	Mazielka i.p. Sequence: 111666 Ended at 1222 UTC	MFSK-6	(AB)
X06b	14380	17-1	1237	Wed	Mazielka i.p. Sequence: 111666 Ended at 1244 UTC	MFSK-6	(AB)
XPA	9108	1-1	0700	Mon	192 192 192 000 08162 00001 00000 32666	MFSK-20/10Bd	(AB)
XPA	10908	1-1	0720	Mon	192 192 192 000 08162 00001 00000 32666	MFSK-20/10Bd	(AB)
XPA	12208	1-1	0740	Mon	192 192 192 000 08162 00001 00000 32666	MFSK-20/10Bd	(AB)
XPA	9108	3-1	0700	Wed	192 192 192 000 07086 00001 00000 34267	MFSK-20/10Bd	(AB)
XPA	10908	3-1	0720	Wed	192 192 192 000 07086 00001 00000 34267	MFSK-20/10Bd	(AB)
XPA	12208	3-1	0740	Wed	192 192 192 000 07086 00001 00000 34267	MFSK-20/10Bd	(AB)
XPA	9108	8-1	0700	Mon	192 192 192 000 02259 00001 00000 36657	MFSK-20/10Bd	(AB/HFD)
XPA	10908	8-1	0720	Mon	192 192 192 000 02259 00001 00000 36657	MFSK-20/10Bd	(AB/HFD)
XPA	12208	8-1	0740	Mon	192 192 192 000 02259 00001 00000 36657	MFSK-20/10Bd	(AB/HFD)
XPA	9108	10-1	0700	Wed	192 192 192 000 01556 00001 00000 36656	MFSK-20/10Bd	(AB)
XPA	10908	10-1	0720	Wed	192 192 192 000 01556 00001 00000 36656	MFSK-20/10Bd	(AB)
XPA	12208	10-1	0740	Wed	192 192 192 000 01556 00001 00000 36656	MFSK-20/10Bd	(AB)
XPA	9108	15-1	0700	Mon	192 192 192 000 07762 00001 00000 35665	MFSK-20/10Bd	(AB)
XPA	10908	15-1	0720	Mon	192 192 192 000 07762 00001 00000 35665	MFSK-20/10Bd	(AB)
XPA	12208	15-1	0740	Mon	192 192 192 000 07762 00001 00000 35665	MFSK-20/10Bd	(AB)
XPA	9108	17-1	0700	Wed	192 192 192 000 02677 00001 00000 37661	MFSK-20/10Bd	(AB)
XPA	10908	17-1	0720	Wed	192 192 192 000 02677 00001 00000 37661	MFSK-20/10Bd	(AB)
XPA	12208	17-1	0740	Wed	192 192 192 000 02677 00001 00000 37661	MFSK-20/10Bd	(AB)
XPA	9108	22-1	0700	Mon	192 192 192 1 00313 00195 03472 ... 39456 50898 15166	MFSK-20/10Bd	(AB)
XPA	10908	22-1	0720	Mon	192 192 192 1 00313 00195 03472 ... 39456 50898 15166	MFSK-20/10Bd	(AB)
XPA	12208	22-1	0740	Mon	192 192 192 1 00313 00195 03472 ... 39456 50898 15166	MFSK-20/10Bd	(AB)
XPA	9108	24-1	0700	Wed	192 192 192 1 00313 00195 03472 ... 39456 50898 15166	MFSK-20/10Bd	(AB)
XPA	10908	24-1	0720	Wed	192 192 192 1 00313 00195 03472 ... 39456 50898 15166	MFSK-20/10Bd	(AB)
XPA	12208	24-1	0740	Wed	192 192 192 1 00313 00195 03472 ... 39456 50898 15166	MFSK-20/10Bd	(AB)
XPA	9108	29-1	0700	Mon	192 192 192 000 06941 00001 00000 36262	MFSK-20/10Bd	(AB)
XPA	10908	29-1	0720	Mon	192 192 192 000 06941 00001 00000 36262	MFSK-20/10Bd	(AB)
XPA	12208	29-1	0740	Mon	192 192 192 000 06941 00001 00000 36262	MFSK-20/10Bd	(AB)
XPA	9108	31-1	0700	Wed	192 192 192 000 08926 00001 00000 40662	MFSK-20/10Bd	(AB)
XPA	10908	31-1	0720	Wed	192 192 192 000 08926 00001 00000 40662	MFSK-20/10Bd	(AB)
XPA	12208	31-1	0740	Wed	192 192 192 000 08926 00001 00000 40662	MFSK-20/10Bd	(AB)
XPA2	11493	1-1	0800	Mon	06541 00001 00000 34262	MFSK-16/20Bd	(AB/Danix)
XPA2	13393	1-1	0820	Mon	06541 00001 00000 34262	MFSK-16/20Bd	(Danix)
XPA2	14793	1-1	0840	Mon	06541 00001 00000 34262	MFSK-16/20Bd	(Danix)
XPA2	13472	2-1	0700	Tue	09128 00001 00000 10140	MFSK-16/20Bd	(AB/HFD)
XPA2	14772	2-1	0720	Tue	09128 00001 00000 10140	MFSK-16/20Bd	(AB/HFD)
XPA2	16272	2-1	0740	Tue	09128 00001 00000 10140	MFSK-16/20Bd	(AB/HFD)
XPA2	16138	2-1	1300	Tue	09738 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	14438	2-1	1320	Tue	09738 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	13438	2-1	1340	Tue	09738 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	11493	3-1	0800	Wed	02020 00001 00000 31254	MFSK-16/20Bd	(AB/HFD)
XPA2	13393	3-1	0820	Wed	02020 00001 00000 31254	MFSK-16/20Bd	(AB/HFD)
XPA2	14793	3-1	0840	Wed	02020 00001 00000 31254	MFSK-16/20Bd	(AB/HFD)
XPA2	13472	5-1	0700	Fri	07013 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14772	5-1	0720	Fri	07013 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	16272	5-1	0740	Fri	07013 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	16167	5-1	1400	Fri	09274 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	14663	5-1	1420	Fri	09274 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	13923	5-1	1440	Fri	09274 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	16167	6-1	1400	Sat	07265 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ/HFD)
XPA2	14663	6-1	1420	Sat	07265 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ/HFD)
XPA2	13923	6-1	1440	Sat	07265 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ/HFD)
XPA2	16138	7-1	1300	Sun	05707 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	14438	7-1	1320	Sun	05707 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	13438	7-1	1340	Sun	05707 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)

XPA2	11493	8-1	0800	Mon	07280 00001 00000 32267	MFSK-16/20Bd	(AB)
XPA2	13393	8-1	0820	Mon	07280 00001 00000 32267	MFSK-16/20Bd	(AB)
XPA2	14793	8-1	0840	Mon	07280 00001 00000 32267	MFSK-16/20Bd	(AB)
XPA2	13472	9-1	0700	Tue	04327 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14772	9-1	0720	Tue	04327 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	16272	9-1	0740	Tue	04327 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	16138	9-1	1300	Tue	09354 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ/HFD)
XPA2	14438	9-1	1320	Tue	09354 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ/HFD)
XPA2	13438	9-1	1340	Tue	09354 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ/HFD)
XPA2	11493	10-1	0800	Wed	09392 00001 00000 33672	MFSK-16/20Bd	(AB)
XPA2	13393	10-1	0820	Wed	09392 00001 00000 33672	MFSK-16/20Bd	(AB)
XPA2	14793	10-1	0840	Wed	09392 00001 00000 33672	MFSK-16/20Bd	(AB)
XPA2	13472	12-1	0700	Fri	01874 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14772	12-1	0720	Fri	01874 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	16272	12-1	0740	Fri	01874 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	16167	12-1	1400	Fri	00765 00089 53065 ... 08052 87319 22746	MFSK-16/20Bd	(AB/MPJ)
XPA2	14663	12-1	1420	Fri	00765 00089 53065 ... 08052 87319 22746	MFSK-16/20Bd	(AB/MPJ)
XPA2	13923	12-1	1440	Fri	00765 00089 53065 ... 08052 87319 22746	MFSK-16/20Bd	(AB/MPJ)
XPA2	16167	13-1	1400	Sat	00765 00089 53065 ... 08052 87319 22746	MFSK-16/20Bd	(AB/MPJ)
XPA2	14663	13-1	1420	Sat	00765 00089 53065 ... 08052 87319 22746	MFSK-16/20Bd	(AB/MPJ)
XPA2	13923	13-1	1440	Sat	00765 00089 53065 ... 08052 87319 22746	MFSK-16/20Bd	(AB/MPJ)
XPA2	16138	14-1	1300	Sun	06329 00001 00000 10140	MFSK-16/20Bd	(AB/Dan/GHn/MPJ)
XPA2	14438	14-1	1320	Sun	06329 00001 00000 10140	MFSK-16/20Bd	(AB/Dan/MPJ)
XPA2	13438	14-1	1340	Sun	06329 00001 00000 10140	MFSK-16/20Bd	(AB/Dan/MPJ)
XPA2	11493	15-1	0800	Mon	02075 00001 00000 33661	MFSK-16/20Bd	(AB)
XPA2	13393	15-1	0820	Mon	02075 00001 00000 33661	MFSK-16/20Bd	(AB)
XPA2	14793	15-1	0840	Mon	02075 00001 00000 33661	MFSK-16/20Bd	(AB)
XPA2	13472	16-1	0700	Tue	04954 00157 03245 ... 13982 38119 22721	MFSK-16/20Bd	(AB)
XPA2	14772	16-1	0720	Tue	04954 00157 03245 ... 13982 38119 22721	MFSK-16/20Bd	(AB)
XPA2	16272	16-1	0740	Tue	04954 00157 03245 ... 13982 38119 22721	MFSK-16/20Bd	(AB)
XPA2	16138	16-1	1300	Tue	00690 00099 57755 ... 57587 72976 24266	MFSK-16/20Bd	(AB/MPJ)
XPA2	14438	16-1	1320	Tue	00690 00099 57755 ... 57587 72976 24266	MFSK-16/20Bd	(AB/MPJ)
XPA2	13438	16-1	1340	Tue	00690 00099 57755 ... 57587 72976 24266	MFSK-16/20Bd	(AB/MPJ)
XPA2	11493	17-1	0800	Wed	06985 00001 00000 40266	MFSK-16/20Bd	(AB)
XPA2	13393	17-1	0820	Wed	06985 00001 00000 40266	MFSK-16/20Bd	(AB)
XPA2	14793	17-1	0840	Wed	06985 00001 00000 40266	MFSK-16/20Bd	(AB)
XPA2	13472	19-1	0700	Fri	04954 00157 03245 ... 13982 38119 22721	MFSK-16/20Bd	(AB)
XPA2	14772	19-1	0720	Fri	04954 00157 03245 ... 13982 38119 22721	MFSK-16/20Bd	(AB)
XPA2	16272	19-1	0740	Fri	04954 00157 03245 ... 13982 38119 22721	MFSK-16/20Bd	(AB)
XPA2	16167	19-1	1400	Fri	04401 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	14663	19-1	1420	Fri	04401 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	13923	19-1	1440	Fri	04401 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	16167	20-1	1400	Sat	05945 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	14663	20-1	1420	Sat	05945 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	13923	20-1	1440	Sat	05945 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	16138	21-1	1300	Sun	00690 00099 57755 ... 57587 72976 24266	MFSK-16/20Bd	(AB/MPJ)
XPA2	14438	21-1	1320	Sun	00690 00099 57755 ... 57587 72976 24266	MFSK-16/20Bd	(AB/MPJ)
XPA2	13438	21-1	1340	Sun	00690 00099 57755 ... 57587 72976 24266	MFSK-16/20Bd	(AB/MPJ)
XPA2	11493	22-1	0800	Mon	09272 00155 73130 ... 76168 29283 10217	MFSK-16/20Bd	(AB)
XPA2	13393	22-1	0820	Mon	09272 00155 73130 ... 76168 29283 10217	MFSK-16/20Bd	(AB)
XPA2	14793	22-1	0840	Mon	09272 00155 73130 ... 76168 29283 10217	MFSK-16/20Bd	(AB)
XPA2	13472	23-1	0700	Tue	09965 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14772	23-1	0720	Tue	09965 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	16272	23-1	0740	Tue	09965 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	16138	23-1	1300	Tue	05648 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ/RL)
XPA2	14438	23-1	1320	Tue	05648 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	13438	23-1	1340	Tue	05648 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	11493	24-1	0800	Wed	09272 00155 73130 ... 76168 29283 10217	MFSK-16/20Bd	(AB)
XPA2	13393	24-1	0820	Wed	09272 00155 73130 ... 76168 29283 10217	MFSK-16/20Bd	(AB)
XPA2	14793	24-1	0840	Wed	Stops after 40 secs.	MFSK-16/20Bd	(AB)
XPA2	13472	26-1	0700	Fri	06312 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14772	26-1	0720	Fri	06312 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	16272	26-1	0740	Fri	06312 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	16167	26-1	1400	Fri	08493 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	14663	26-1	1420	Fri	08493 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	13923	26-1	1440	Fri	08493 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	16167	27-1	1400	Sat	06866 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)



XPA2	14663	27-1	1420	Sat	06866 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	13923	27-1	1440	Sat	06866 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	16138	28-1	1300	Sun	05200 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	14438	28-1	1320	Sun	05200 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	13438	28-1	1340	Sun	05200 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	11493	29-1	0800	Mon	06736 00000 00000 30662	MFSK-16/20Bd	(AB)
XPA2	13393	29-1	0820	Mon	06736 00000 00000 30662	MFSK-16/20Bd	(AB)
XPA2	14793	29-1	0840	Mon	06736 00000 00000 30662	MFSK-16/20Bd	(AB)
XPA2	13472	30-1	0700	Tue	09110 00149 03577 ... 51099 72912 27152	MFSK-16/20Bd	(AB)
XPA2	14772	30-1	0720	Tue	09110 00149 03577 ... 51099 72912 27152	MFSK-16/20Bd	(AB)
XPA2	16272	30-1	0740	Tue	09110 00149 03577 ... 51099 72912 27152	MFSK-16/20Bd	(AB)
XPA2	16138	30-1	1300	Tue	05580 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	14438	30-1	1320	Tue	05580 00001 00000 10140	MFSK-16/20Bd	(AB/RL/MPJ)
XPA2	13438	30-1	1340	Tue	05580 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	11493	31-1	0800	Wed	02034 00001 00000 33255	MFSK-16/20Bd	(AB)
XPA2	13393	31-1	0820	Wed	02034 00001 00000 33255	MFSK-16/20Bd	(AB)
XPA2	14793	31-1	0840	Wed	02034 00001 00000 33255	MFSK-16/20Bd	(AB)
XSL	8313	10-1	0137	Wed	Japanese navy, a.k.a. Slot Machine	QPSK 1500Bd	(BW3-J)
XSL	4153	10-1	1714	Wed	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-J)
XSL	4231.5	10-1	1714	Wed	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-J)
XSL	4291	10-1	1714	Wed	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-J)
XSL	6250	10-1	1714	Wed	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-J)
XSL	6417	10-1	1714	Wed	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-J)
XSL	6445	10-1	1714	Wed	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-J)
XSL	8313	10-1	1714	Wed	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-J)
XSL	8588	10-1	1714	Wed	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-J)
XSL	8703.5	10-1	1714	Wed	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-J)
XSL	4153	13-1	0758	Sat	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-J)
XSL	4231.5	13-1	0758	Sat	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-J)
XSL	4291	13-1	0758	Sat	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-J)
XSL	6250	13-1	0758	Sat	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-J)
XSL	6417	13-1	0758	Sat	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-J)
XSL	6445	13-1	0758	Sat	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-J)
XSL	8313	13-1	0758	Sat	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-J)
XSL	8588	13-1	0758	Sat	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-J)
XSL	8703.5	13-1	0758	Sat	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-J)

## CONTRIBUTORS

AAI	Antonio Anselmi, Italy	F5JBR	F5JBR André, France
AB	Ary Boender, Netherlands	F5JBR-CHN	F5JBR via remote rx China
AB-ABW	Ary Boender via remote rx Aruba	F5JBR-J	F5JBR André via remote rx Japan
AB-AUT	Ary Boender via remote rx Austria	GHn	Gary Hagermann, UK
AB-CHN	Ary Boender via remote rx China	HFD	Hans-Friedrich Dumrese, Germany
AB-D	Ary Boender via remote rx Germany	HFD-HK	Hans-Friedrich Dumrese via remote rx Hong Kong
AB-FIN	Ary Boender via remote rx Finland	HK	Hiroyuki Komatsubara, Japan
AB-G	Ary Boender via remote rx UK	JPL	JPL, Ontario, Canada (and various remote rx)
AB-GRC	Ary Boender via remote rx Greece	JPL-CHN	JPL via remote rx China
AB-HNG	Ary Boender via remote rx Hungary	JPL-J	JPL via remote rx Japan
AB-ISL	Ary Boender via remote rx Iceland	JPL-KOR	JPL via remote rx South Korea
AB-J	Ary Boender via remote rx Japan	JPL-NZL	JPL via remote rx New Zealand
AB-KOR	Ary Boender via remote rx South Korea	JPL-Sib	JPL via remote rx Siberia
AB-NZL	Ary Boender via remote rx New Zealand	Jul	Jul, Spain
AB-POL	Ary Boender via remote rx Poland	Kalv	Kalvados
AB-RUS	Ary Boender via remote rx Russia	MAUK-CHN	MikeA via remote rx China
AB-UKR	Ary Boender via remote rx Ukraine	MCO	Mike Chace-Ortiz, PA, USA
AB-USA	Ary Boender via remote rx USA	MDK2	MDK2, USA
AnEur	Anonymous Europe	ML4	Michel Lacroix, France
Benka	Benka	MPJ	Jim, SW England
BW3	Barry Williams, AL, USA	MPJ-AUT	Jim via remote rx Austria
BW3-J	Barry Williams via remote rx Japan	MPJ-FIN	Jim via remote rx Finland
BW3-KOR	Barry Williams via remote rx South Korea	MPJ-HOL	Jim via remote rx Netherlands
BW3-POL	Barry Williams via remote rx Poland	MPJ-RUS	Jim via remote rx Russia
BW3-RUS	Barry Williams via remote rx Russia	Phi	Philby
BW3-THA	Barry Williams via remote rx Thailans	PY	Pierre Ynard, France
CR2	Curt Rowlett	qsr711	QSR711
Dan	Daniel, Argentina	RL	Landolpho, Brazil
Danix	Danix111, Poland	RR2	Rich Ray, IL, USA
Danix-USA	Danix via remote rx USA	Sha	shadypyro
ES	Edward Smith, UK	Tom	Tom, Lincs, UK
ES-POL	Edward Smith via remote rx Poland		

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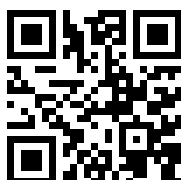
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1 63298 75688 27665 87226 49876 28376 81273 98675  
47 67432 74328 78674 29867 32867 67867 86786 63286  
57 68768 68768 34234 34238 68768 62342 68772 68768  
59 98432 32432 86743 43288 43286 43286 43286 43288  
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