

670	27364	92836	09428	61208	74982	36498	32764	81276	01
4986	40932	70987	32123	49817	26346	81287	65491	87364	81
721	75654	55656	12737	72727	72727	91918	63473	67867	70
6723	87629	37677	32612	53498	71296	28756	18276	98716	87
7269	76329	74698	76857	98670	27601	56701	57601	73648	15
591	87364	87265	96710	27630	12673	84769	28743	98127	50
58	63298	75698	27465	87326	49876	28376	81273	98615	62
667	87432	74328	78674	29867	32867	67867	86786	43206	432
667	68768	68763	34234	34238	68768	62342	48273	48768	234
936	98432	32432	86743	43286	43286	43286	43286	43286	432
743	86743	86743	39867	32867	86743	43286	43286	43243	867
741	86743	86743	86743	86743	86743	86743	86743	86743	435
543	98798	98754	98754	98754	98754	29867	67543	67986	867
676	87698	69876	87698	69876	87612	12341	34867	86798	632
867	43298	65656	56756	56123	32143	14321	32143	14321	321
71	02787	58765	76587	58765	76587	58765	76587	58756	765
75476	76543	54365	36543	54365	36543	54365	36543	54365	543

# Numbers & Oddities

## a.k.a. The Spooks Newsletter

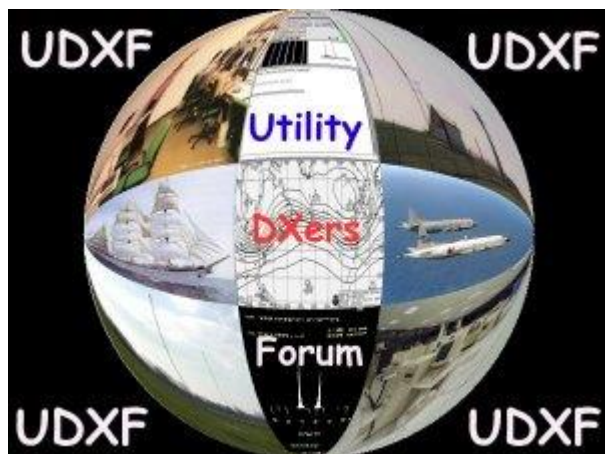
*Edition #230, November 2016*

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.



### IMPORTANT – UDXF HAS MOVED

We decided to move UDXF from Yahoo Groups to Groups.io on December 2nd because of the ongoing problems on Yahoo. A number of people couldn't send mail; emails disappeared or messages were severely delayed; we often couldn't upload files, etc. Note that UDXF on Yahoo will be up for a while after the move but you cannot send mail to the Yahoo group anymore.

The UDXF FAQ has been updated for Groups.io and is available from the UDXF website: <http://www.udxf.nl/UDXF-FAQ.pdf>

UDXF website: <http://www.udxf.nl>

UDXF on Yahoo: <https://groups.yahoo.com/neo/groups/udxf/info>

UDXF on Groups.io: <https://groups.io/g/UDXF>

## VOICE STATIONS



E06

**18285/20140 kHz, 03-11/17-11, 0600/0700 UTC**

507 396 124

95783 07499 18578 44444 32941 80838 97153 51191 50213 47133  
53988 90582 65359 24259 98849 72272 66872 27904 51263 74331  
22326 57033 86599 51317 68058 86096 15851 26922 41155 68658  
22543 72259 39646 82146 05205 11989 21863 68390 98851 25458  
80897 49664 73902 35045 55094 24889 35978 98910 60513 75709  
75016 50314 56307 37118 37142 50715 78939 12315 17727 48819  
06198 36496 99077 62778 36920 19256 81192 27716 97384 20290  
80753 33936 95439 13621 97854 33873 44666 14381 00521 32639  
79021 75776 10302 38079 84665 40880 87334 16266 17957 05370  
31094 97372 13858 30745 57545 78589 20106 39660 74764 49289  
03561 41384 78973 14972 88670 17902 53802 37322 76511 12849  
63078 25220 73517 60103 29280 35243 84603 49969 98742 22973  
83712 45068 48625 19736  
396 124 00000

**4836 kHz, 03-11/17-11, 2030 UTC.** Windows XT shutdown sound on 03-11

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, 18-11, 2130 UTC**

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

---



*E07*

**14884/13384/11584 kHz, 01-11, 1100/1120/1140 UTC**

835 835 835 1 650 75 650 75  
81011 03965 75337 48416 28148 00990 10728 39584 99767  
80090 38955 50454 52987 44986 26788 57835 37540 50331  
06034 68988 79530 99185 33008 68430 14515 67219 16949  
00300 12831 12344 45660 87756 15821 28061 83161 51529  
18971 68323 56484 16080 75757 80287 92112 74615 50172  
07402 70979 85825 08439 36122 80452 06702 82523 90768  
55761 71038 01080 87829 74965 70758 69171 79028 19694  
63902 64256 20203 77926 23398 66942 92631 81390 87540  
35918 39424 93231  
000 000

**14884/13384/11584 kHz, 11-11/15-11, 1100/1120/1140 UTC**

835 835 835 1 4054 61 4054 61  
84781 59372 61917 03363 31390 99217 20910 11682 56068 89223  
97613 58082 88009 80100 54514 71055 90080 33344 80005 79073  
00663 94477 02427 59603 39944 85840 38858 92774 62896 50458  
50985 48844 77247 63048 70870 80284 42537 87455 76107 86963  
24747 77052 39481 25526 28473 35801 00596 93098 37015 62395  
65065 68192 64260 04751 37423 32297 86370 63551 11304 85850  
64074  
4054 61 000

**10112/11112/12112 kHz, 19-11/20-11/26-11/27-11, 0700/0720/0740 UTC**

111 111 111 1 202 16 202 16  
43080 10252 02330 56332 79405 20072 74587 91653 73268 67562  
20527 83207 14964 89642 81795 94206  
000 000

**14884/13384/11584 kHz, 25-11/29-11, 1100/1120/1140 UTC**

835 835 835 1 8453 78 8453 78  
42404 57361 39255 73175 05168 52359 42517 93306 52788 23915  
57325 43438 66166 50436 30451 58712 11574 66064 90426 08032  
38840 79225 32916 38242 91312 49418 29073 06996 57019 68007  
54705 94315 61841 73443 20768 94962 41777 84321 33819 98824  
39496 50246 88694 56615 95627 73423 90496 90109 72235 82441  
06202 55225 91367 08664 28290 70445 72201 62920 53738 37653  
89230 16897 94352 71660 01270 62221 00908 84260 06114 96104  
95637 92868 85102 59174 25122 52092 03171 57648  
000 000

**7616/6816/5216 kHz, 28-11/30-11, 2000/2020/2040 UTC**

682 682 682 1 847 25 847 25

59472 30719 73782 06614 21610 92748 47745 39109 30038 24820

71170 21635 01985 24223 33373 30592 59794 83671 58169 80913

61491 03138 05064 95778 55311

000 000

---



*E07a*

**5877/5277/4577 kHz, 23-11, 2100/2120/2140 UTC**

825 825 825 1 11602 7612 75 7612 75

69131 11128 07512 17739 81527 03058 07228 23295 37023 39280

80347 52752 33267 64223 32935 10317 05827 54409 34328 76784

25393 84712 10674 97258 63880 56544 59646 05364 66519 51579

18132 90203 15997 61170 04823 89387 79175 92051 31848 53548

79627 19890 95496 86326 97841 51317 83942 11804 06667 43923

35509 12046 98453 14649 26074 37407 17367 44360 78864 03516

56013 93394 46856 65962 10194 85953 50007 72750 14529 28751

71666 45661 56031 66019 92515

000 000

**5111/5811/6911 kHz, 24-11, 0530/0550/0610 UTC**

189 189 189 1 11602 7612 75 7612 75

69131 11128 07512 17739 81527 03058 07228 23295 37023 39280

80347 52752 33267 64223 32935 10317 05827 54409 34328 76784

25393 84712 10674 97258 63880 56544 59646 05364 66519 51579

18132 90203 15997 61170 04823 89387 79175 92051 31848 53548

79627 19890 95496 86326 97841 51317 83942 11804 06667 43923

35509 12046 98453 14649 26074 37407 17367 44360 78864 03516

56013 93394 46856 65962 10194 85953 50007 72750 14529 28751

71666 45661 56031 66019 92515

000 000

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*E11a*

**12153 kHz, 01-11, 1045 UTC**

575/37 Attention

15933 88708 04212 64238 25010 47563 49989 22528 88492 86909

70312 79137 21623 15171 04727 64310 06416 61716 14494 13842

04385 27644 01779 39122 07991 77369 09652 67131 62686 99957

79507 55991 07675 89104 83437 38220 20277

Attention, rpt msg, out

**18030 kHz, 01-11/02-11, 1300 UTC**

132/32 Attention

12922 55156 69300 87811 46877 22042 20385 49697 38775 42094  
95708 41338 75529 04613 90025 20714 61791 84037 88235 69395  
62870 68818 98148 62825 50579 69021 91010 72683 90995 53116  
79103 21263

Attention, rpt msg, out

**4505 kHz, 01-11/06-11, 1605 UTC**

237/39 Attention

94305 91960 57915 04134 52258 51730 83155 89609 91418 76074  
76705 00632 74858 65711 55772 85736 10029 93739 13073 11253  
95863 30588 82492 26131 11034 30637 45769 69090 87901 33775  
60004 38983 26267 94440 60173 09662 03219 91574 91667

Attention, rpt msg, out

**5779 kHz, 02-11/03-11, 0315 UTC**

251/32 Attention

95645 21904 99942 39645 29541 66367 40180 97903 71909 92430  
37533 22195 03230 54836 73155 23426 52075 63695 77002 98563  
67125 96254 09478 90592 53659 47127 20827 60033 08062 06939  
71979 37936

Attention, rpt msg, out

**9443 kHz, 02-11, 1705 UTC**

393/39 Attention

03385 90752 92306 52066 63464 84584 40517 47974 83930 80879  
62125 32946 66693 43903 73500 35789 26494 53682 54292 80231  
76223 49625 51158 81202 71174 33173 97352 38888 96047 21243  
97617 09700 33702 05038 25056 42394 37460 95644 74134

Attention, rpt msg, out

**13046 kHz, 07-11/11-11, 0600 UTC**

188/36 Attention

08033 80556 44480 19072 63525 12361 26511 25120 09707 47545  
15281 54308 39971 00668 41839 63778 28668 27575 93228 88942  
75680 43310 98576 34282 46695 95365 91559 70076 38571 61406  
22948 26053 42705 39753 27882 12050

Attention, rpt msg, out

**5082 kHz, 07-11/10-11, 0450 UTC**

410/39 Attention

96270 85998 90597 21516 94681 68503 18079 07723 94121 39569  
39489 53875 58748 91809 84695 23396 51826 70878 05321 89380  
23288 51114 28277 97203 20807 67067 77718 05080 50430 36883  
17695 98707 28243 94806 91962 77749 60754 26422 79189

Attention, rpt msg, out

**9446 kHz, 07-11/09-11, 0900 UTC**

533/37 Attention

88001 67168 39173 06672 11145 44965 65115 36876 47474 12401  
81004 84451 33983 41437 95737 40923 88000 17382 43223 83357  
93097 24026 33072 57805 94463 47705 04118 97128 70240 53144  
23967 98598 10727 56948 34293 57031 18196

Attention, rpt msg, out

**7840 kHz, 08-11/10-11, 0645/0650 UTC**

517/40 Attention

48650 36090 03257 29995 79472 53826 06047 38616 63054 94333  
74546 31678 44578 96482 27590 78853 19097 83414 16141 97450  
88097 70844 53253 10354 88599 84053 31882 10839 88366 25838  
94571 83043 80785 20369 99061 12945 54264 52388 98298 54924

Attention, rpt msg, out

**16112 kHz, 08--/10-11, 0745 UTC**

338/31 Attention

68180 41624 43980 50048 87501 40239 56982 31436 57331 33835  
18911 22591 80520 65206 36122 08906 97839 52190 80059 96582  
96685 91348 46470 11121 07369 39113 72363 96211 41944 26893  
17929

Attention, rpt msg, out

**10429 kHz, 09-11/13-11, 0805 UTC**

310/39 Attention

20390 49167 88441 47126 86172 95656 51957 69824 37115 01076  
77582 21084 34640 05720 66257 65784 25217 44228 50539 27723  
77011 46001 76272 49305 15917 60900 10074 69926 78761 91438  
61858 03790 19188 65110 83157 53886 80655 46859 05540

Attention, rpt msg, out

**8545 kHz, 09-11/12-11, 1730 UTC**

406/38 Attention

01414 34641 06438 10405 72494 20577 56918 91282 61237 78869  
83648 00317 10428 24919 90383 85966 00471 15595 53883 19769  
15839 97560 52586 63316 97943 17170 23177 43032 98875 30475  
83258 31373 03587 43558 42145 34609 56625 69724

Attention, rpt msg, out

**12924 kHz, 10-11/12-11, 0710 UTC**

490/31 Attention

45489 56873 34616 16966 08122 89481 18274 94154 49087 13384  
51154 40872 15238 87797 61851 58552 97726 93653 67301 29587  
42959 53471 99573 44275 45776 51982 22002 75511 32398 15275  
05557

Attention, rpt msg, out

**16112 kHz, 11-11, 0730 UTC**

359/36 Attention

38644 17295 89161 66611 55015 86471 64204 89678 58057 35469  
76042 24058 71966 50261 83098 74969 06015 30200 33468 60697  
83647 79456 91797 40893 10634 52119 22132 60837 69481 97534  
24826 13078 38112 32921 56837 65125

Attention, rpt msg, out

**5409 kHz, 17-11, 1530 UTC**

266/39 Attention

86172 89007 17140 38822 12454 47636 01812 10142 77168 96811  
96562 67672 45215 29133 33454 89115 29877 98285 34812 56705  
01597 58088 82752 83173 70294 17750 51466 12459 02797 41064  
84625 20648 70102 41392 64364 24852 88762 39221 55602

Attention, rpt msg, out

**20167 kHz, 18-11, 1225 UTC**

520/40 Attention

44802 87732 72968 12731 19063 58207 78324 71771 82742 70315  
50283 34443 25002 34283 46472 98641 10571 58442 85204 74677  
49278 74761 87876 15716 01959 33159 73400 60804 77686 53752  
36094 69888 34487 09172 66645 46407 14149 31167 17556 53961

Attention, rpt msg, out

**6849 kHz, 21-11/24-11, 0530 UTC**

641/37 Attention

99306 91276 29030 07103 95653 05500 44683 67477 18468 00461  
63059 60491 42261 22733 89835 72319 93174 54421 60490 24689  
81074 30928 57915 41047 80345 89737 11405 48287 16164 02416  
48005 01087 61622 71456 62873 14002 99261

Attention, rpt msg, out

**7371 kHz, 21-11/24-11, 0820 UTC**

432/32 Attention

04852 33305 87030 42777 16222 69940 72239 07898 67978 47648  
97025 26964 97702 20224 71493 21774 18260 41798 44453 84267  
02726 80035 42139 55396 36816 58381 66768 31356 63446 37556  
96993 55618

Attention, rpt msg, out

**14666 kHz, 22-11/26-11, 1345 UTC**

912/32 Attention

61037 56113 37384 82618 90883 46863 96207 55326 87275 84134  
55053 38985 94277 87288 48780 26419 64622 12821 47931 98012  
65206 68828 75768 82934 34363 40403 03551 58284 54617 33589  
09423 53263

Attention, rpt msg, out

**8196 kHz, 22-11/24-11, 1450 UTC**

443/35 Attention

67807 22273 85223 79197 77982 31517 08609 11306 65256 78896  
38811 41344 89637 26685 67347 49227 16610 77235 18581 43829  
41160 01315 06307 73077 16329 14895 52090 50066 57714 50043  
76505 85916 43654 91562 65934

Attention, rpt msg, out

**9950 kHz 23-11/24-11, 0930 UTC**

276/33 Attention

11893 20358 58047 38255 91331 88459 03313 29907 32440 35426  
45043 34946 28086 49069 27828 57531 10302 10709 68937 02460  
33668 07443 81479 92634 83445 26979 71530 20338 01787 90803  
35392 23710 10642

Attention, rpt msg, out

**8680 kHz, 24-11/26-11, 1300 UTC**

587/32 Attention

48614 22150 96987 52237 87278 43205 25921 49330 78256 32553  
32916 69611 60768 52362 40193 21682 12041 06581 12151 75243  
93507 38597 30490 96399 24131 28742 36412 22950 46181 25298  
97464 73292

Attention, rpt msg, out

**7984 kHz, 29-11/30-11, 1205 UTC**

464/32 Attention

09841 80231 60879 98920 83525 59909 65524 19281 56715 40571

27267 30860 36138 00661 10836 79719 94526 51535 23285 58112

70779 38718 66269 04665 37048 78558 47365 67102 93061 67048

54212 32989

Attention, rpt msg, out

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E17z

**11170/9820 UTC, 03-11/10-11, 0800/0810 UTC**

674 219 5 33370 39705 36201 37352 96930 219 5 00000

**11170/9820 UTC, 17-11/24-11, 0800/0810 UTC**

674 218 5 38034 37823 38240 48235 38702 218 5 00000

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E25

**6140 kHz, 03-11, 1115 UTC**

880 880 880 880 880 880 880 880 880 880 880

Message, message, message

2180 5001 4199 1502 0536 2310 1716 3656 ... 9116 2180

Rebeat, rebat, rebat

2180 5001 4199 1502 0536 2310 1716 3656 9116 2180

End of message. End of transmission

**6140 kHz, 04-11, 1115 UTC**

880 Message message message

2180 5001 4199 1502 0536 2310 1716 3656 9116 2180

Rebeat rebat rebat

2180 5001 4199 1502 0536 2310 1716 3656 9116 2180

End of message. End of transmission

Windows 7 shutdown at the end

**6140 kHz, 06-11, 0745 UTC**

250 250 250 250 250 250 250 250 250 250 250

Message, message, message

9144 5080 6211 2640 6313 2603 4587 6211

Rebeat, rebat, rebat

9144 5080 6211 2640 6313 2603 4587 6211

End of Message. End of Transmission



**6140 kHz, 10-11, 0752 UTC**

Windows 7 login sound before start.  
 First group is wrong, should be 6090.  
 The audio volume changes drastically into transmission a couple times.  
 Transmission is sent twice.  
 012 Message message message  
 6006 2670 1712 5584 7898 2905 4862 7296 9548  
 Rebeat repeat repeat  
 6006 2670 1712 5584 7898 2905 4862 7296 9548  
 End of Message. End of Transmission

**6140 kHz, 11-11, 0800 UTC**

Like yesterday, the first group is wrong  
 012 Message message message  
 6006 2670 1712 5584 7898 2905 4862 7296 9548  
 Rebeat repeat repeat  
 6006 2670 1712 5584 7898 2905 4862 7296 9548  
 End of Message. End of Transmission

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**G06**

3696 kHz, 07-11, 1700 UTC 574 574 574 00000. High speed version. Windows XP error sound  
 4562 kHz, 07-11, 1800 UTC 574 574 574 00000. Normal, slow version. Windows XP shut down sound  
 4034 kHz, 09-11, 1300 UTC 574 574 574 00000. Windows XP shut off sound

**4519 kHz, 10-11, 1829 UTC**

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

**4519 kHz, 24-11, 1828 UTC**

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

**4792 kHz, 11-11/25-11, 1929 UTC**

436 149 52

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

149 52 00000

Windows XP shut down sound on 25-11

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S06

**10755 kHz, 09-11, 0940 UTC, unscheduled transmission copied by uascan**

975 482 50

26908 57206 26836 39604 21317 17999 60759 90200 34950 68231  
16294 59928 94950 80425 14995 26371 13235 09110 79485 27522  
79155 73044 38310 54799 68339 18007 33613 60219 22286 33585  
98848 13662 78456 22404 98689 71178 55555 45243 48330 40264  
23662 90459 54378 53052 13916 41171 44508 83342 47443 38629  
482 50 00000

The following log comes from Danix. It is a schedule that sends on a random day in March, June, and November every year, using fixed time slots, frequencies, and ID.

- March: 1500z 14913kHz, 1600z 10386kHz, ID 387

- June: 1500z 13944kHz, 1600z 11496kHz, ID 387

- November: 1500z 13397kHz, 1600z 9194kHz, ID 387

**13397/9194 kHz, 16-11/17-11, 1500/1600 UTC**

387 402 51

50517 66491 45094 93334 43385 26585 75811 55480 83531 07516  
46961 71350 01681 83176 04455 27707 92659 07772 94577 07320  
02024 42638 66862 47083 35418 96840 45811 40384 89141 73725  
32403 88385 25336 40614 21327 29930 40239 63831 44868 04741  
98948 76253 79397 29613 35116 69564 75395 92275 39035 28402  
96949

402 51 00000

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S06s

**12155/10920 kHz, 03-11, 1200/1210 UTC**

425 816 7 40951 35790 31686 37023 31750 46556 32382 816 7 00000

Male ops chat just before the txm was switched off

**8057 kHz, 07-11, 0830 UTC**

371 460 5 30623 34306 33284 32517 38761 460 5 00000.

Operator chat before s/off : ?? 8530 (= the freq of the 2nd transmission)

**8530 kHz, 07-11, 0840 UTC**

371 460 5 30623 34306 33284 32517 38761 460 5 00000.

Operator chat before s/off: vyklyuchayu - I am switching off

**14675 kHz, 07-11, 0900 UTC**

872 943 5 40194 39428 36749 36509 81313 943 5 00000

Operator chat before s/off: 18-y 12830 / 18th 12830 (= the freq of the 2nd transmission)

**12830 kHz, 07-11, 0910 UTC**

872 943 5 40194 39428 36749 36509 81313 943 5 00000

Operator chat before s/off: 18-y vyklyuchayu / 18th I am switching off

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*S11a*

**7504 kHz, 08-11, 0915 UTC**

482/31 Vnimanije

76820 49380 63014 36983 84126 50995 59755 48875 67849 15900

03421 65808 46449 89048 68458 52528 37556 49885 09177 57766

79973 09638 49790 52349 14664 39290 12542 47747 40277 58928

17892

Vnimanije, rpt msg, konets

**9610 kHz, 08-11/11-11, 1020 UTC**

426/32 Vnimanije

43388 94747 72509 33996 00548 35177 30598 47646 23573 37320

19379 59877 16800 77324 52173 22556 28718 10392 12227 02526

74724 31068 49820 02573 48795 61178 40010 16127 82200 07104

83270 68459

Vnimanije, rpt msg, konets

**12530 kHz, 21-11/24-11, 1015 UTC**

478/38 Vnimanije

11738 69517 55054 72708 98429 18195 20783 02957 28877 72283

72400 13711 03778 01309 25549 59086 21974 54417 90579 33396

75257 11247 62498 42400 49461 86985 48086 81960 39816 25745

68064 49108 11888 46739 01585 45557 02950 81948

Vnimanije, rpt msg, konets

**4828 kHz, 22-11, 0455 UTC**

322/32 Vnimanije

47319 69962 16844 95889 20950 47635 03546 39229 86243 57006

89663 83826 75990 46153 73946 49088 43258 49346 83058 62585

45359 21273 53780 63305 28118 57359 80477 93469 44173 28848

18415 97027

Vnimanije, rpt msg, konets

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## S28 - The Buzzer

Mode: USB  
Frequency: 3216 & 4625 kHz

07-11, 0620 UTC	ZhUOZ 96515 ATOMOHAN 48956841
07-11, 0619 UTC	ZhUOZ 66822 BANTOHLyEv 15856815
17-11, 1233 UTC	ZhUOZ 10410 BRYeMYeN 64956880
17-11, 1231 UTC	ZhUOZ 02139 KUJHONNYJ 94777037 Female voice on background
17-11, 1044 UTC	ZhUOZ 43842 KAIKOBALL 58944167
17-11, 0907 UTC	ZhUOZ 59208 DUETOBAL 89994216
17-11, 0900 UTC	ZhUOZ 00663 BUENOS 03057160
21-11, 1025 UTC	ZhUOZ 44695 KRAMATORSK 63972775
21-11, 1055 UTC	ZhUOZ 66928 BUNTORIS 54031602 Sboj (error) during repeat\
21-11, 1528 UTC	ZhUOZ 51719 ZYuJDOTYeRN 89264479
21-11, 1535 UTC	ZhUOZ 92574 KRYeSS 18397235
24-11, 0801 UTC	ZhUOZ 04182 VOYaZhOShVYeD 18536582 DYeROZhAR 37779255
24-11, 0921 UTC	ZhUOZ 40549 VHODOMYeCh 42846614
24-11, 0935 UTC	ZhUOZ 42060 ADAMIT 78288610 KRYeOLKA 68198855
24-11, 1108 UTC	ZhUOZ 67776 BRYuNYeTKA 11446637
27-11, 1422 UTC	ZhUOZ 84897 VIZGOHALL 54601944
28-11, 0751 UTC	ZhUOZ 81016 ZAYeMORIFT 31376818
28-11, 0754 UTC	ZhUOZ 99330 GRYaZNUHA 67906710
28-11, 1230 UTC	ZhUOZ 22420 KAZACHOK 54709627
28-11, 1412 UTC	ZhUOZ 89336 KON'YuNKCIYa 31196315



## S30 - The Pip

Modes: CW (Pip), USB (messages)  
Frequencies: 3756 kHz (night), 5448 kHz (day)

3756 kHz, 17-11, 0413 UTC	V'Z' NLCE LI27 V2MZ SB7Z 'O6P Y8VM 6I2Zh 8CShchJ 27Shch'
	The operator says Vladimir instead of Vasiliy and Boris instead of six
3756 kHz, 17-11, 1645 UTC	S7ZhG Z'1B CI9V ZhSK4 HZ5T 5FSShch 8MUO TUZR 5J7Shch DMC3
3756 kHz, 21-11, 0514 UTC	81BR M7KS PMV5 L'GJ KZI' TShchShchS VKY1 HCLF 61HZh ZBIL
3756 kHz, 21-11, 1419 UTC	L7O5 V'Z' NLCE LI27 V2MZ SB7Z 'O6P Y8VM 6I2Zh 8CShchJ
3756 kHz, 21-11, 1526 UTC	8S1Shch 42552 AZOVOBUFF 37543023 Time mark after the signal
3756 kHz, 21-11, 1534 UTC	8S1Shch 47888 NAVALIVAN'Ye 17154702 Time mark after the signal
3756 kHz, 21-11, 1748 UTC	27Shch' N1DU 53OB 78MV DEAY JH'J 12CI 79AJ ShchT3O CIHS
3756 kHz, 22-11, 1524 UTC	7VNShch ZhRNZh LMA5 VTKh3 AGFT IU1B OSOG BOBĚ F5SShch 9GSA priyom
3756 kHz, 23-11, 1522 UTC	Message
5448 kHz, 24-11, 1320 UTC	clg several stations
3756 kHz, 24-11, 0503 UTC	DEAY JH'J 12CI 79AJ ShchT3O CIHS Z7PM S7ZhG Z'1B CI9V
5448 kHz, 24-11, 1308 UTC	8S1Shch 70432 VLIYaTYeL'NYJ 74143714 ISTYaZATYeL 79227585 Time mark after the signal
5448 kHz, 24-11, 1318 UTC	ZhSK4 HZ5T 5FSShch 8MUO TUZR 5J7Shch DMC3 49FT C2ZA INNC
5448 kHz, 24-11, 1343 UTC	8S1Shch 00390 BONOSAYeK 43579388 Time mark after the signal
3756 kHz, 24-11, 1829 UTC	ShchGJP TZLM FY5E F61N 37CN MUDR 7VNShch Zh7NZh YMA5 VTH3
3756 kHz, 24-11, 1445 UTC	8S1Shch 60748 LATNYK 73529254 GIDOMIF 94943088 Time mark after the signal
3756 kHz, 27-11, 0517 UTC	37CN MUDR 7VNShch Zh7NZh YMA5 VTH3 AGDT 'U1B OSOG BO6C
3756 kHz, 27-11, 1419 UTC	8S1Shch 26302 AZIDOFYeN 85475699 Time mark after the signal
3756 kHz, 27-11, 1431 UTC	PMV5 L'GJ KZI' TShchShchS VKY1 HCLF 61HZh ZBIL L7O5 V'Z'
3756 kHz, 28-11, 0453 UTC	NLCE LI27 V2MZ SB7Z 'O6P Y8VM 6I2Zh 8CShchJ 27Shch' N1DU
5448 kHz, 28-11, 0747 UTC	8S1Shch 62497 OBMYeRShchIK 67378560 Time mark after the signal
5448 kHz, 28-11, 0754 UTC	8S1Shch 85470 ZVONODONG 00655207 Time mark after the signal
5448 kHz, 28-11, 1226 UTC	8S1Shch 16411 NADOMNIK 13623001 Time mark after the signal

3756 kHz, 28-11, 1408 UTC 8S1Shch 45403 KARDANNYJ 58827332 Time mark after the signal  
3756 kHz, 28-11, 1910 UTC Z'1B CI9V ZhSK4 HZ5T 5FSShch 8MUO TUZR 5J7Shch DMC3 49FT

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## S32 - Squeaky Wheel



Mode: USB

Frequencies: 3838 kHz (night), 5473//7009 kHz (day)

5473 kHz, 21-11, 1345 UTC AL'FA-45 06161 GIBYeL' 22270343  
3828 kHz, 21-11, 1530 UTC AL'FA-45 44926 OBRUSYeNIYe 14954395  
3828 kHz, 21-11, 1538 UTC AL'FA-45 60366 MYeHOMORG 41148579  
3828 kHz, 21-11, 1753 UTC ZASLONKA-27 KARTA-11 OTPOR-89 PYeSOChNYJ-21 ShULER-60 STUPA-32 RYeZINA-38 BURKA-37  
(S30 in the background)  
5473 kHz, 24-11, 1311 UTC AL'FA-45 30787 KORIFYeJ 95421458  
5473 kHz, 24-11, 1345 UTC AL'FA-45 61568 ZUBOSKAL 04125770  
3828 kHz, 27-11, 1426 UTC AL'FA-45 01323 LYUFTOZMYeJ 86329666 channel failure during repeat  
3828 kHz, 27-11, 1800 UTC ZASLONKA-27 KARTA-11 OTPOR-89 PYeSOChNYJ-21 ShULER-60 STUPA-32 RYeZINA-38 BURKA-37  
(S30 in the background)  
3828 kHz, 28-11, 0759 UTC AL'FA-45 75204 MOTOZYeBU 10439053  
3828 kHz, 28-11, 1230 UTC AL'FA-45 41148 ZhRYeCOShTAT 06527426  
3828 kHz, 28-11, 1412 UTC AL'FA-45 41179 OBYeSCYeNYeN'Ye 61077203  
3828 kHz, 28-11, 1432 UTC DUBLYoR-68 STAZhER-29 STOROZh-62 YaHTA-94 RUZh'E-26 ROSA-64 KOVBOJ-39 LANDYSh-74  
(S30 in the background)  
5473 kHz, 28-11, 1432 UTC AL'FA-45 92698 ADOMYaCh 50060706  
3828 kHz, 28-11, 1802 UTC KURGAN-40 NYeVKA-26 ZASLONKA-27 KARTA-11 OTPOR-89 (S30 in the background)

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V02a

Dirección General de Inteligencia

All reported by qsr711 and PW2.

**7555 kHz, 08-11, 2000 UTC, LSB, mixing with M08a**

Unreadable due to a transmitter issue. 1 second of transmitter up with M08a/V02a mixing, 3 seconds of noise.

Recording made by parkeerwacht:

<http://priyom.org/media/175178/v02a-m08a-7555lsb-20161108-2000z-failtx-byparkeerwacht.ogg>

**7555 kHz, 10-11, 2000 UTC, LSB, mixing with M08a. Copied by qsr711**

86351 18081 21312 Attencion

Message 86351:

03670 73786 35562 62678 26735 70850 30514 36113 64717 22864  
73218 03614 33020 61713 51374 71472 47044 18608 65048 41147  
83283 10863 24888 21530 28623 52834 63784 41055 35171 12506  
77346 21118 08021 75281 20387 72084 33625 10628 71481 76676  
83447 64313 07140 56056 72135 05481 54866 30660 48746 62580  
11552 83836 74658 37828 36661 61530 55818 10832 71816 41364  
86832 72116 41442 70342 10504 13523 62503 22531 83845 36117  
37037 11507 37167 27063 54084 52582 57582 41737 31545 12734  
55241 40545 82787 76537 87407 07856 85316 10285 00733 08543  
73322 07684 64426 70000 11420 67646 75556 36003 10380 66376  
65484 00385 08464 55722 84566 23660 54382 10065 16356 88217  
00521 45016 51203 43854 84877 55020 38412 26121 38207 74620  
62726 50724 37324 35306 80531 12711 81567 04538 24603 84042

46745 38202 30523 14532 00456 55826 16441 57360 72551 03364  
58051 43831 08226 15805 75611 44726 23200 15630 32576 64853

Message 18081:

14202 71177 50326 71010 27416 82240 57674 26353 31888 18801  
46453 46738 16287 78273 20807 27850 71783 33156 81665 38430  
28358 36851 31184 25137 88015 65520 60110 83517 38262 22346  
26686 75673 83074 33763 17810 75105 85??1 84245 54147 56070  
50633 26585 61576 06181 2???6 27523 35025 31582 35606 31768  
28054 31664 45346 32361 84327 11727 51088 63543 05240 74781  
34466 12884 26010 43740 83284 26756 48185 65132 81064 71582  
45501 28446 65843 71868 72166 73221 11477 43518 68044 24524  
53416 32673 76052 48862 84557 26458 40845 86465 ??882 00612  
48058 50457 68860 45364 68431 01664 48446 35284 77344 211??  
31825 75256 46138 30512 11131 17137 87457 11304 56213 00240  
73638 25352 87547 61826 17081 44440 26048 11868 11606 6083?  
14557 62?07 28762 37376 31474 663?1 423?? 45271 4??81 58026  
56?88 11378 7178? 83633 43362 61733 21726 71886 26432 34664  
28817 75122 07346 11073 2568? 18721 26448 61731 61421 32021

Message 21312: Unknown, transmission cut after 2nd message end.

**7555 kHz, 15-11, 1958 UTC, mixing with M08a**

Recording: <http://priyom.org/media/175189/m08a-v02a-7555lsb-20161115-1958z-mixing-byparkeerwacht.ogg>

Headers: 25521 38851 41272

Message for 25521:

15845 30261 45847 26283 08750 78411 38853 58685 40077 05162  
82060 8031\_ 00376 50541 04514 17517 78836 57008 25061 12806  
05142 86423 87810 12724 83614 41413 83304 66136 74782 24240  
65477 60415 75172 36266 75653 43563 53152 54218 44266 65388  
06187 51717 31728 26843 57837 54345 71228 76244 72425 47383  
83076 70662 86127 67638 14707 40303 14164 85781 76187 36480  
42110 78363 43106 55561 75333 74321 02053 61817 15045 01655  
53142 58366 15650 05042 14046 20551 21308 84817 08242 66750  
84728 71387 87063 04538 50188 05888 10372 65628 38677 36535  
11605 77248 33752 17686 60351 82378 41501 35135 28063 44871  
77148 33236 37064 15873 32054 82614 07342 75186 01815 48200  
46404 31314 74344 26373 25340 21317 03801 61076 46248 03482  
15452 50477 54614 21716 60684 30325 42472 01645 21771 52556  
44881 41013 44610 32705 65217 42645 72631 33508 80431 24642  
53071 75126 30501 42330 17305 10543 81836 63135 42777 16108

Message for 38851:

85380 18673 55402 18276 84646 25355 72483 61224 20461 08568  
04684 28118 08532 64027 21443 14268 06748 40802 23807 71011  
62413 04064 62026 52017 68155 35882 63775 36623 72813 76057  
23607 73588 44226 28167 84756 41622 36687 71414 43667 54152  
10583 53001 11210 76705 07428 67664 82324 70586 52750 31431  
57561 38488 21785 05036 83518 80383 82364 30515 47240 08212  
35784 37683 68363 51866 65244 55070 18285 15017 65758 71560  
37283 85076 71428 38024 81578 86054 12648 02671 18338 18734  
84011 47204 18434 14025 58331 36383 14342 43351 43513 07222  
75801 66634 23878 51844 32342 33461 24778 66786 66084 66165  
17682 08567 84866 80624 57583 50803 31151 67372 63654 74615  
34515 11045 10087 24364 48241 13331 45650 83880 55727 16082  
66272 70481 25331 77854 24511 56\_65 51753 74082 03266 57723  
68527 12764 02857 32621 88852 25185 46208 77725 68325 17407  
08037 81358 18875 52218 42603 74576 76866 61663 31877 02841

Message for 41272:

64851 01707 24426 70828 51337 55165 21246 34620 73113 28742  
18274 24837 85027 55870 05182 64665 71227 86767 28811 04787  
24468 03046 46153 31120 03654 30467 25536 76060 24630 26803  
53488 88753 27706 60666 15704 47703 61337 01375 55803 43013  
68678 37813 38647 13551 30546 20102 82184 85374 06783 50014  
76037 47756 46501 85810 35158 57365 08745 53640 41714 83502  
52157 01622 57031 03802 86244 83225 81876 61255 46703 31\_82  
47843 75627 78326 41847 01415 03723 36010 54325 35675 70850  
30778 27534 56827 70003 23181 35627 66326 65810 37785 66004  
81503 52353 08033 01487 70502 85828 04320 10534 76467 32081  
30254 72837 14383 01653 75353 61802 46170 85148 80252 62120  
45405 63487 08645 32646 22637 74371 11528 14274 60428 37706  
10083 33540 68620 61342 58610 81870 84333 51742 06614 30605  
76531 40672 23434 36452 27383 82431 77603 88453 88140 34051  
50832 04714 73713 48052 33730 55681 62480 51073 05515 02337

Final Final Final

**7555 kHz, 24-11, 2000 UTC, LSB, mixing with M08a**

Found in progress, first header lost. Very poor modulation. Recording by parkeerwacht:

<http://priyom.org/media/175337/v02a-m08a-7555lsb-20161124-2000z-mixing-byparkeerwacht.ogg>

Headers: ????? 37642 41161

Message for \_\_\_\_\_ (Header missed):

\_\_763 77453 72732 27211 72682 08808 15780 22651 45202 08333  
50030 10876 61827 08044 00168 23684 72136 14313 35351 11804  
61087 70825 74468 31851 45041 08361 57041 75437 88521 10344  
65806 60743 41421 02818 54374 25482 55126 18715 35726 68145  
86555 45483 83567 77256 11528 04216 02200 55655 3340\_77005  
41144 35705 26156 41607 07431 50166 88748 04342 64265 11273  
84638 13232 01433 12262 66824 11850 75852 54207 06136 66682  
36470 84817 11648 58726 74063 61041 60803 07382 12417 72028  
61478 35601 55184 27051 25227 42484 14040 75468 32718 70661  
22633 34651 32561 34845 31811 64448 11687 75201 04132 17875  
10027 16841 45255 77835 06575 67426 32371 43034 23235 07084  
21654 54047 57124 77621 60364 37251 47588 56083 66584 55714  
02400 30276 87615 22183 31256 18520 61864 65506 41044 61280  
15112 48387 55326 37377 15120 61213 15244 02033 74354 70621  
\_\_\_\_ 408 53323 10361 36152 88531 83060

Message for 37642:

68671 47332 14042 08525 45280 82004 88066 14058 15365 37172  
84407 77164 11563 32171 13603 12515 80744 76376 67100 41477  
37050 04457 41661 43438 08014 12243 65677 54650 27843 21156  
45500 43871 21537 84337 14610 07084 17245 17812 68756 48723  
27035 77052 74620 23555 85832 16001 51805 58827 64028 53447  
48461 83081 16080 26604 67056 78016 58607 70038 83770 84108  
85838 42408 42343 57666 26310 13841 48585 65384 35716 88805  
21645 10277 21488 78355 82006 36437 80380 32053 01178 86744  
27627 51568 16127 01604 70336 65338 82575 05334 66357 55553  
32157 64832 66043 57183 74414 83113 41744 22332 61811 06272  
5507\_16063 00602 81210 227\_4 57342 82813 44335 01176 20767  
15112 74856 21583 76541 77074 46281 32163 80714 64382 10475  
34356 26527 61330 52274 21374 32821 32323 45525 06826 46424  
68711 30714 73587 74436 10782 65444 14325 87836 27804 61251  
35554 84853 45460 05\_8 85021 68705 57880 52034 70732 12515

Message for 41161:

82847 77665 27507 20136 11808 61114 43176 64805 70137 07771  
72223 02407 31554 46886 21044 31134 23223 36244 77332 32131  
34040 30651 27266 20080 45650 55451 75132 14675 51211 37465  
21177 10331 41563 00184 63017 05168 88378 46123 26412 85626  
43065 42516 43363 32161 21042 54208 78001 12113 04515 78301  
41861 86824 04273 84056 52581 22068 23880 60802 58873 48251  
43684 72674 13488 14288 78381 82880 22665 03617 11680 35181  
18733 01460 32351 10057 80606 61405 47618 75215 55060 35576  
41571 53654 63606 34383 71355 63104 53682 22061 15065 37706  
77416 61854 26061 61376 70205 60881 46374 80573 34215 80273  
30320 43103 66763 04552 42106 74477 67543 65713 38672 31474  
50636 68415 28624 82344 06022 66578 11258 38635 47344 55660  
27088 86785 85873 52761 48683 41077 03217 52830 88815 10440  
44825 57466 80624 35855 38256 07776 32227 31544 52616 26210  
32424 67204 45256 40171 34028 34146 14257 26056 08454 62886

Final Final Final

Qsr711 noticed something interesting about the headers. He explains:

2016-11-10: 86351 18081 21312  
2016-11-15: 25521 38851 41272  
2016-11-24: ?????? 37642 41161

There seems to be some relation between them. I have also looked at some other headers from previous months. Here's what I have noted so far:

- 1st digit: On the 1st and 3rd group only pair digits are used. On the second one, only odd digits are used.
- 2nd digit: Seems like there is some sort of relation in transmissions from the same month, but no similarities with other months.
- 3rd and 4th digit seem completely random.
- 5th digit, as we already know, is always 1 or 2.

For now, I'll leave this here. I don't have enough time to compare every single header. Maybe next month, if this V02a madness continues, I will have something more interesting.



V07

**18074/15874/14374 kHz, 13-11, 0100/0120/0140 UTC**

883 883 883 1 943 53  
41702 03475 08139 23393 78373 39832 71331 58370 08542 79121  
27253 81157 91530 13411 75477 94413 84518 80083 49253 42424  
14442 59043 08220 53091 83379 31092 15442 43347 15239 77933  
17484 19405 07858 19385 34908 18717 50744 05940 59915 43524  
43303 11321 58040 13350 28232 30834 58282 73931 12107 82788  
05554 30777 33430  
000 000

**18074 kHz, 20-11, 0100 UTC. Copied by Daniel**

883 883 883 000

At 0030 UTC music is heard at least 20 seconds then strong hum until end of transmission

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## V13 - New Star Broadcasting Station

### 星星廣播電台 Xīngxīng guǎngbò diàntái

#### Current schedules:

15388 kHz New Star Broadcasting #1 0200 UTC status ?  
 15388 kHz New Star Broadcasting #1 0300 UTC status ?  
 15388 kHz New Star Broadcasting #2 0400 UTC changed to 11430 kHz  
 15250 kHz New Star Broadcasting #4 0500 UTC silent, now 0700/0800z ?  
 15250 kHz New Star Broadcasting #4 0600 UTC silent, now 0700/0800z ?  
 15388 kHz New Star Broadcasting #3 0700 UTC changed to 15250 kHz  
 15388 kHz New Star Broadcasting #3 0800 UTC changed to 15250 kHz  
 9725 kHz New Star Broadcasting #4 1200 UTC also heard on 5995 kHz  
 9725 kHz New Star Broadcasting #4 1300 UTC also heard on 5995 kHz



## V24

All copied by BCLman

6310 kHz, 01-11, 1530 UTC	NO.3890, music: Everyday with You, Sojin Park
6310 kHz, 03-11, 1530 UTC	NO.3890, music: Everyday with You, Sojin Park
6310 kHz, 05-11, 1530 UTC	NO.3890, music: Everyday with You, Sojin Park
4925 kHz, 11-11, 1430 UTC	NO.3369, music: Dvorak - Slavonic Dance Op. 72 No 2
5115 kHz, 11-11, 1600 UTC	NO.6612, music: Amazing You, Dong-Geun Han
4925 kHz, 13-11, 1430 UTC	NO.3369, music: Dvorak - Slavonic Dance Op. 72 No 2
5115 kHz, 13-11, 1600 UTC	NO.6612, music: Amazing You, Dong-Geun Han
4925 kHz, 15-11, 1430 UTC	NO.3369, music: Dvorak - Slavonic Dance Op. 72 No 2
5900 kHz, 15-11, 1600 UTC	NO.2693, music: Good Day, IU
5115 kHz, 16-11, 1600 UTC	NO.6612, music: Amazing You, Dong-Geun Han
5150 kHz, 18-11, 1400 UTC	NO.4724, music: Thursday Night, Urban Zakapa
5900 kHz, 18-11, 1600 UTC	NO.2693, music: Good Day, IU
5715 kHz, 19-11, 1500 UTC	NO.4111, music: Life is, Jin-Young Hong
5150 kHz, 21-11, 1400 UTC	NO.4724, music: Thursday Night, Urban Zakapa
5715 kHz, 21-11, 1500 UTC	NO.4111, music: Life is, Jin-Young Hong
5900 kHz, 22-11, 1600 UTC	NO.2693, music: Good Day, IU
4900 kHz, 23-11, 1530 UTC	NO.4816, music: Spiritualism, Yun-Jeong Jang
4900 kHz, 25-11, 1530 UTC	NO.4816, music: Spiritualism, Yun-Jeong Jang
5150 kHz, 25-11, 1400 UTC	NO.4724, music: Thursday Night, Urban Zakapa
5715 kHz, 26-11, 1500 UTC	NO.4111, music: Life is, Jin-Young Hong
4900 kHz, 27-11, 1530 UTC	NO.4816, music: Spiritualism, Yun-Jeong Jang



## V28

3277 kHz, 03-11, 1330 UTC Message in Korean. Female operator



## *VC01 - Chinese Robot* *Chinese Air Defense*

Modes: USB and LSB voice

Heard on:

3537 kHz, 03-11, 0807 UTC, USB

6980 kHz, 03-11, 0809 UTC, LSB

6780 kHz, 07-11, 0758 UTC, USB

6980 kHz, 07-11, 0754 UTC, LSB

4335 kHz, 11-11, 1303 UTC, USB

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## *MORSE STATIONS*



*M01*

### **5320 kHz, 03-11, 1800 UTC**

197 (no key/group count sent)

31483 85280 66553 52491 58381 76814 05516 04587 91858 60670

56246 62429 83550 45289 67663 92701 24139 19816 16979 55717

69717 34671 41383 31130 50310 10105 20394 24810 68393 13682

= = 337 337 30 30 00000

Last group not repeated

### **5320 kHz, 08-11, 1800 UTC**

197 427 30 =

19414 27176 11896 80738 09137 78672 20087 14615 36990 89478

71346 23075 61762 56713 67671 66572 93885 47871 57872 10078

20349 27531 93234 65785 79821 68419 76894 05408 37381 46885

000

7th Group Repeat/Mistake \*10087

### **5810 kHz, 19-11, 1500 UTC**

197 905 30 =

87082 59568 56800 92900 77193 02591 18132 89244 66559 10756

20127 06761 09534 21247 04197 14017 42084 24357 34772 36211

75824 34667 01635 981x5 91674 53697 59421 84564 02644 85262

905 30 000

Group 20 repeated as \*36256

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M01b

2470/3545 kHz, 03-11, 1932 UTC

2485/3160 kHz, 03-11, 2042 UTC

910 709 33 =

97968 57114 47658 66876 87152 04556 59425 12970 30224 16997

87143 81289 15435 19520 58588 46986 26541 11449 54588 05174

42363 81231 14276 28654 36483 93124 75231 40495 77917 00531

93493 26270 52464

709 33 000



M08a

Dirección General de Inteligencia

7555 kHz, 15-11, 1958 UTC, mixing with V02a

UUWWN WITIA ITDAN

UUWWN UUWWN UUWWN UUWWN UUWWN = = =

AWIIT UGGNW RUTEG AUNAI NGAMA NDTGN ADINN UTTRT AWTDI ATRHT  
 PANWG GNTWR WDRW GUUNG TDTWG DWGRT ANWRU DTTNR AIDDG WAADR  
 GGWUT TGWWD GBWRU INDTN ATNGA TAIAN AUUWT DUAAA RDGTN IUUWR  
 UNTDU GWAWW TEATT RNALW ADRRT TNNWI NUDGT DVWGN IITNW TIIUD  
 REIVU TAUEI DAWAA GNTGT NNDUW WDITR RRGDI RRRTU WGGGI WUIIT  
 WTGAN RUINW UTTIN NGAGI NDTGR WTNDN NWNDR TRRII IRWRA RITWA  
 UDRAB DGDWA IAAUD RRNAN TWIAW TRDUT VNNDR IDTRR GGAAN AWDNW  
 DWGDE WUDNI TNWTT GTNTT GWWDD ADTRD NIDNT IURMG UAWDW WAATA  
 GWTTI IIDAD GAARN ATUWD AURTU ARUII NTRDI AAAIR GGIWA ANMDD  
 GURIR GIAAR WAGET NDUNA GIRIT RUTWN UUUAI RWTGM IUATG DNNAI  
 WAUWG TIGWI WDINN WTAGT WDIIR AWUNT AANNT UNDWA RIIUI AIUAN  
 GUARN UAVIG GIAAR GRTAU AWDUM NRRGI TIRUD TTNTW NAIGN RRUIW  
 ADMAN DWAII DNUII AURAT ENGGU NNDRU ADRUD UARDI UTIGD GAUDR  
 TGNGR NNUDR WRTAT NDIWN ATUIG GGTRN IUTAG RWARA RWUTG DIWUN  
 UNTIG GGDNN WAGBI UUGID NEDRG DDUAR IUDIG ATIGU AWWGI IDUWG  
 AR AR

WITIA WITIA WITIA WITIA WITIA = = =

DTANU WANWT GUTII HGTRG TUWRN WDDUR RIADA RDWAD NIRRZ RNTAA  
 NADTN GUNTD DUIGN TTATA RAAAW GAWWN DTUIR AGGTI UTAAI DDUWT  
 IRUIN GTRWW NIWID TWRAA IIUWN GRAUT WARNT IRDAG ARNID ITIGD  
 UDRIA IDITU GUGGW INGTU ANNUT TUWDG DRRWI GGIDN DTUNG AMDGG  
 DDITD UUGNU AGNUU DRRNI AAURT TEBNU WTGTN TUARU RTGAI TRTTN  
 WNDRA UTNNA DDAUD NATRU GUAID NDRWI GWTDU UUUAI AIUNU IRANU  
 GAIDD WGNIN AGWRW TGDWA RDTRG IMGAN GRDNI WWAGT AWWWU GWRIR  
 RGRGT WNRNG RUIIG MTIUU WDINT NNDWG UGNRD WGNIW DIAWA ADNGR  
 UWTRT DUAUN WGIGI ERAWW NRWRN AAWDR WIDWN AIWTA DANIT AARTR  
 GNTRI GIITA RANNI UNTAN RGANR IDIGU NRNAU TNTGA RDNWA RWRA  
 IRANW GGWUT DDITN WGURI WITDA GUNTN DNUWW RAIAA TRWRR UNTIU  
 IWNIT UTRIG AGRID IWDTN UAUUI BDAUI IDADA WAWWE WRWGD DINAU  
 VNNUG INIRR TDUTI UIATI GAWTT MWTUN TIRUN INAUT NWAAR WRUIR  
 AGIDI ANDWG DANUR IWIAT UIIRD DWNIA WAIIA WTGAN WIWRI INNTG  
 ARGDR WUNII UUWRN HHRRG AGUWU AUNAI IANTR NTNAW WUUDW GIUNU  
 AR AR

ITDAN ITDAN ITDAN ITDAN ITDAN = = =

ATWNG NUNIN RAIGA IDRNN IWTRT NRTTT IINRT RINRT MNTWI TGWAG

RRTGD IIITN MDUUU DTWWW IIRDD RNGID RDTUW RRTDG ANDUR WIIAA  
 UIIAN LWNGA RRDTG IWTTR AwnAT TNAAG UAIW IPWUD TGIUI AIIDI  
 IAIRG WTUHG TUAaw ADNRG WNTNV GUDAA NAGIU WRIUT RITNA WAINI  
 RNIAR NDRDA DDIWA ITGAM WRGTT WWTUA DARUA RTRIT UDDGI BALIN  
 RNITA WUGDA NTAAN IGNTD TUWUT INMWG RHWAW RGNWU UTRGA IGUR  
 NAndD IRDAI DAUAT DNRAT UWWNA UIUUU RNAII UNIUR IIDII UTGGT  
 IUWUA GNRGW RUNWG IGDIG RIADI NDAII UTUGG IGTNM WIAII NURDN  
 WIWWG DRIGU TTTTT GAIIN TTRTI NGTGW DDTTE TUDTT DNDTT MWGDU  
 WANID NANAR GNTAG TTAAG IAAAU WAAUI MUDDR RAGAN RIRTI AGATA  
 GTTDN UDNUD NUDDD UDMAA UGDIA IWNIT TUNDN GDGTR TWRUI RDANR  
 AGUAR TTADW RUWRI DUNRW TIGIN INIWW IIGAT GUUUU ARIUT WNUIA  
 ITAAA RATWT UTNUA UTMAT WWRNG WUIGW DWIRT AADTD UDTAH TIADW  
 DRTTA TDTWG DITGG AIGDT FGUGT IUWDU GWTNT UWIMW ANART RIMDW  
 RUWDT RIGTI UUDAA GDGTT DTDMD DTWNA AGIGR IUNRN GAUDR TTDAa  
 AR AR AR

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M12

**10250 kHz, 01-11, 1120 UTC, Unscheduled transmission i.p.**

??? ?? 23

38674 852?1 05758 60687 34655 61387 61841 30166 04653 65777  
 27160 81??? 72343 86235 68827 76128 12505 78141 10888 70214  
 82311 28881 20725  
 000 000

**8053/9178/10287 kHz, 01-11, 0800/0820/0840 UTC**

816 816 816 1 5916 60 5916 60  
 87353 87927 57503 73725 31202 10101 46640 29831 44494 98233  
 69641 70302 07797 76879 04170 71221 16055 14120 29233 23870  
 49470 26495 24443 76827 09252 41581 80488 63902 79883 79622  
 25941 17886 87109 74756 99287 79348 47272 80076 52478 05671  
 71448 03136 17059 03197 11042 35346 77267 74259 13094 19201  
 06734 91729 34449 86525 85132 20516 43083 53154 45607 64831  
 000 000

**16296/14796/13396 kHz, 02-11, 1400/1420/1440 UTC**

273 273 273 1 3967 107 3967 107  
 38316 25979 02168 24736 60675 42295 51524 28745 30683 18860  
 53944 17626 22209 15928 18678 10923 15220 56602 66812 30242  
 50448 84381 78936 06586 08346 65880 37342 76410 66308 33077  
 95293 32611 06103 58936 83651 69996 05664 41549 73643 29815  
 58070 76879 95792 86839 34474 02064 17320 98412 71408 29651  
 65412 93289 40446 52372 11068 88486 05029 34219 36094 47442  
 65165 56252 80572 36533 18883 52480 16315 43718 90097 94925  
 00861 28247 15405 17913 63664 96223 10317 99165 14930 41056  
 25163 34723 13263 13197 13133 31446 97532 56609 08262 66198  
 50634 94377 83573 09749 40583 95308 95819 67507 27869 66146  
 08867 18618 51393 37432 44217 05417 87806  
 000 000

**8047/6802/5788 kHz, 03-01, 2000/2020/2040 UTC**

463 463 463 1 9546 102 9546 102  
 70536 31008 43165 18414 26949 90664 27103 35991 61025 45123  
 89646 28589 38555 87019 97794 13100 99046 22776 87964 80705  
 88426 71586 47491 83156 36302 96227 86610 46547 36869 57183  
 79608 61743 48919 60067 92411 95260 36636 41420 24176 38689  
 51303 07809 94757 14637 65677 54668 07914 40245 70347 18283

46778 50910 66710 55987 69405 08501 01802 42554 45518 51978  
89006 79388 72422 85744 67566 23389 56193 24442 64558 85812  
72899 22838 80024 74107 70122 45307 76642 25467 37247 71037  
09555 49992 83250 28892 74367 40549 00563 35014 25536 75887  
80974 18884 39416 64858 83576 68777 60252 95712 97084 43217  
36624 78335  
000 000

**10343/9264/8116 kHz, 04-11, 1200/1220/1240 UTC**

124 124 124 1 3642 55 3642 55  
37885 35396 75773 43639 30054 97031 28494 30195 35495 69316  
06028 96773 66440 31566 04749 44624 56160 43276 45694 30855  
09159 64570 57192 59344 40466 45122 56703 66706 39731 25879  
82039 76497 05477 23670 44224 74907 60109 41418 60913 36160  
21085 95376 24002 49034 50664 35697 43451 08939 63485 40945  
60457 70155 22659 62641 90613  
000 000

**8053/9178/10287 kHz, 08-11, 0800/0820/0840 UTC**

816 816 816 1 2488 53 2588 53  
95650 16603 81607 95455 44940 75733 57365 97639 23992 05228  
72551 66160 54022 14576 88261 19715 87345 13003 58505 21972  
09142 40606 25135 61879 02512 32259 94927 61891 40148 81590  
37733 00337 85123 75282 00064 50150 31674 70693 05324 86393  
87803 92681 91386 17256 82517 44176 51888 19575 78415 52089  
18066 75351 93484  
000 000

**16296/14796/13396 kHz, 09-11, 1400/1420/1440 UTC**

273 273 273 1 2286 105 2286 105  
06069 82779 00651 80465 16256 38858 76328 44896 35735 38461  
40248 08529 17398 34717 75467 91511 49046 55816 70609 54317  
06654 92949 34226 67989 84854 67863 17277 93232 35087 64853  
80758 47272 81458 49054 61773 79530 46092 68753 09423 70707  
12410 13739 51363 23650 21359 92953 05855 06974 40781 73396  
42667 31597 72987 10135 56584 42610 60652 15127 35660 53497  
86207 00389 75640 92275 24631 85520 33246 06732 58870 21889  
56804 32366 68788 75950 48749 57203 54015 58677 40306 57026  
54773 89864 50733 02740 38663 19819 31781 50521 36443 05596  
79817 77436 24407 92968 72599 86899 04631 49299 07471 20559  
52771 19006 45668 84750 98927  
000 000

**15969/17479/18169 kHz, 10-11, 1010/1030/1050 UTC**

941 941 941 1 1877 95 1877 95  
96114 55093 03786 03025 21423 27410 82481 26367 84689 64187  
33244 44805 09830 93135 51497 67173 84951 33176 92576 71929  
31669 25655 17122 99217 69269 07279 43118 95950 97039 46728  
09780 98769 05215 47904 29861 79234 45881 65792 58154 95033  
14041 54201 96371 60271 27331 94450 65605 21053 60662 77005  
65091 64312 95704 66958 80322 32778 30570 36486 93535 66351  
12309 22993 37519 54577 05849 19405 26440 91166 16767 12329  
12280 69407 76924 03511 07564 91535 69016 88966 98692 07354  
47939 73917 42750 17130 24308 68451 28925 09555 18421 27214  
53529 95020 32428 13320 18411  
000 000

**9162/8062/7462 kHz, 10-11, 1310/1330/1350 UTC**

104 104 104 1 7551 113 7551 113  
28978 57011 65527 26150 49806 22926 78224 37623 18844 44369  
20912 55421 16708 85602 04440 57023 78126 73116 56607 22875  
76437 09884 80843 98072 16710 60116 18345 95127 54909 32734  
95447 83954 42205 34728 54494 91711 58259 55074 78261 59821  
25371 14529 44417 17691 64700 91164 93815 71409 03953 39859  
12017 15033 21812 20939 64010 53176 30023 15993 44515 69790  
54654 82162 36044 09705 51903 34520 74695 74107 82910 62324  
09401 48086 78901 18580 61303 21676 28345 50666 96022 80720  
20873 14298 28368 94869 44256 49883 43006 70135 88870 01939  
16477 82094 97381 17407 76845 42011 06133 24281 90311 35368  
61978 03208 12278 75355 93130 65867 12420 03388 93039 43851  
20728 23767 84584  
000 000

**10343/9264/8116 kHz, 11-11, 1200/1220/1240 UTC**

124 124 124 1 7853 50 7853 50  
05708 31056 21788 73479 01971 54807 48799 21177 05112 01196  
48542 21124 77327 37546 96620 09034 99252 73292 74232 04687  
83167 61154 35879 05023 93445 62160 68571 99997 34060 59510  
34340 81554 03331 65994 34176 80084 36162 09523 53293 54337  
60106 16690 96715 66341 41441 69938 63435 32650 26464 91795  
000 000

**16296/14796/13396 kHz, 16-11, 1400/1420/1440 UTC**

273 273 273 1 4181 225 4181 225  
87859 01209 24944 72718 08513 10418 60315 95464 72775 80638  
32899 53234 46795 04959 75961 10873 12938 61852 84788 39560  
47165 05017 83772 32966 37262 46973 56217 28954 21700 51570  
92013 83796 92945 98764 77337 93694 58229 92307 44403 49520  
16023 23271 73385 00113 45946 32017 07791 56586 85310 24808  
26514 26816 68188 32814 69408 89817 76275 06171 55221 52048  
85455 60439 35296 52636 87201 17722 03043 04548 43049 86520  
20020 21418 62471 25095 92086 79303 07734 33103 68279 67139  
27489 05022 39302 63857 99360 70307 76374 57392 94298 81405  
45100 42794 01704 66677 62579 75817 05603 50468 36314 79434  
27455 02609 05397 39924 14691 34326 70782 63934 66104 76884  
05130 02301 18176 10046 85885 33295 96396 48351 05194 96617  
72688 22824 55791 41970 73578 73554 36611 82681 24093 60814  
99786 55978 03085 51108 47236 31008 37575 38074 10787 35686  
98540 41142 47622 27657 81148 76139 67021 06466 74630 81934  
02878 67315 06303 66976 69960 49471 25877 64581 56257 46224  
55101 05991 95098 49889 03867 23225 70321 88805 26307 04508  
94423 56944 04134 74342 05739 64675 31795 49897 61249 31324  
64637 33046 64876 84910 26929 42510 35875 08066 50272 16117  
65626 58701 46381 62319 23583 34816 84880 16872 53556 79420  
75997 00392 01354 00551 14457 77395 66771 96591 02372 64680  
39092 10792 08222 87959 80393 66138 76037 78902 25273 00063  
00593 28690 32055 78938 69941  
000 000

**9162/8062/7462 kHz, 19-11, 1310/1330/1350 UTC**

104 104 104 1 732 113 732 113  
34901 79747 79606 75312 78379 22107 10712 21430 57006 61428  
73943 04804 92072 86189 54612 71820 72576 36751 18129 51938  
84213 19089 87377 00109 88651 94059 49827 08696 17533 33018  
12764 94894 21432 98508 72785 68986 35789 83568 16710 59522  
94802 79345 98855 71026 74230 54124 65321 42143 09224 33739  
12985 10448 84056 55973 97198 94333 30904 81025 81845 15085  
24672 44302 63547 19353 09547 19491 05761 45355 50453 23461  
70609 63882 20150 44007 38850 25622 93160 90475 08178 17262  
05893 84799 45462 74822 74901 30147 90339 07138 12868 14800  
64456 42081 01522 24047 85911 33078 18645 43729 71036 54511 33673  
53953 15922 76822 19466 43472 73332 38409 28536 92938 73796 22739  
25387  
000 000

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**M14**

**10423 kHz, 01-11, 1305 UTC, i.p.**

??? 148 56  
... 30927 10066 25113 01740 39890 71077 80979  
84234 13770 75542 18766 51134 41553 97953 33757 68013 71780  
59416 98447 07173 90158 84427 90189 04670 98431 64011 50590  
76032 86714 86123 81327 14105 16474 19295 06088 17461 56331  
60427 53292 22819 37898 82684 39324 39897 23808 44423 56921  
12152 05147 45096 98441 51829 70468 =  
149 56 00000

This was sent on 22 October. All groups are sent twice.

171 490 91  
52378 90126 42876 19097 72691 06132 48071 25375 61608 72421  
83606 51026 83528 91905 72231 63881 92244 04190 63217 66747  
98414 20204 53261 74194 52781 84390 71515 45020 75229 83120  
62467 84309 85561 29900 06718 53771 28431 53908 61234 43910  
63598 61734 83264 61905 72426 76149 62527 79010 63381 19427  
63841 53991 73062 20719 63735 64490 26173 45590 80961 30352  
53125 56123 87610 85171 31010 53430 80127 63530 70771 10323  
63630 19372 53610 87031 52890 63781 32084 52100 00340 62721  
52400 62826 61120 54622 71060 64991 24051 00647 73809 62841  
32465  
490 91 00000

The same message but with a lot of errors / changes was sent on 5 November. I think that the "errors" are made on purpose and that these are training messages. Note that even the repeats are often different. The second transmission, which usually is the same as the first one is now also different at places. Both recordings are available from the N&O website. The reception was excellent via a Russian remote receiver.

**5430 kHz, 05-11, 0800 UTC**

171 (R) 490 490 91 91  
52378 52378 90126 90126 2876 42876 19097 19097 06132 06132  
72651 72691 8071 8071 25375 25375 61608 61608 7221 75210  
83606 83606 51026 51026 83528 83528 91905 51905 72231 72231  
63881 63881 5224 525 0190 04190 63217 63217 6677 6657  
581 981 2020 2020 53261 53261 5194 715 52781 52781  
84390 8350 71515 71515 5020 45020 75229 75229 83129 83125  
6267 6267 8309 8309 85561 85561 25500 29900 06718 06718  
53771 53771 2831 28431 53508 53908 6123 6123 3510 43510  
63598 63598 6173 6173 8326 8326 61905 61905 7526 75260  
7619 7615 62527 62527 75010 79010 63381 63381 1527 1927  
63841 63841 53551 53591 73062 73062 20715 20719 63735 63735  
690 650 26173 26173 5550 5590 80961 80561 30352 30352  
53125 53125 56123 56123 87610 87610 85171 85171 31010 31010  
53430 5330 80127 80127 63530 63530 70771 70771 10323 10323  
73630 63630 19372 19372 53610 53610 87031 87031 52850 52850  
63781 63781 3208 32084 52100 52100 0030 0020 62721 62721  
5200 5500 62826 62826 61120 61120 5622 5622 71060 71060  
5991 6551 24051 2051 00647 0067 73809 73809 6281 6281  
3265 32465  
490 50 91 91 00000

**5560 kHz, 05-11, 0900 UTC**

171 (R) 22 490 490 91 51 0  
52378 52378 90126 90126 42876 2876 19097 19097 06132 06132  
72651 72651 8071 8071 25375 25375 61608 61608 7521 72421  
83606 83606 51026 51026 83528 83528 51505 91905 72231  
72231 63881 63881 522 52244 0150 0150 63217 63217 6677 6657  
581 981 20204 2020 53261 53261 719 715 52781 52781  
84390 8350 71515 71515 5020 5020 75225 75225 83129 83129  
6267 6267 8309 8305 85561 85561 25500 25500 06718 06718  
53771 53771 2831 28431 53508 53508 6123 6123 3510 3510  
63598 63598 6173 6173 8326 8325 61905 61905 7526 72426  
7619 7615 62527 62527 75010 79010 63381 63381 1527 1527  
63841 6381 53991 53551 73062 73062 20715 20719 63735 63735  
690 650 26173 26173 5550 5590 80561 80561 30352 30352  
53125 53125 56123 56123 87610 87610 85171 85171 31010 31010  
5330 5330 80127 80127 63530 63530 70771 70771 10323 10323  
73630 63630 15372 19372 53610 53610 87031 87031 52850 52850  
63781 63781 3208 3208 52100 52100 0030 0030 62721 62721  
5500 52400 62826 62826 61120 61120 5622 5622 71060 71060  
64951 6551 5051 2051 00647 0067 73809 73805 6281 6281  
03265 32465  
90 50 91 91 00000

**10423 kHz, 08-11, 1300 UTC**

058 194 58 =  
67555 59509 17345 80476 08983 56220 43200 93410 52775 74985  
57038 67655 74185 57477 69256 40337 59503 13439 95049 94820  
37542 21873 79106 77964 34661 49903 08691 59271 39262 19011  
63540 74116 86696 73308 76011 18251 00519 29561 99927 85757  
51022 13631 11544 67654 17003 13032 91084 53329 61683 00292  
79132 13096 89747 94704 90615 63900 14531 91472  
194 58 00000



**8167 kHz, 10-11, 1330 UTC**

Restarted after group 50 and resumed from group 46 till the end of the message

058 367 52 =

11427 14585 51935 02546 80306 44631 28736 11101 04318 63334  
77891 47098 95478 75296 19951 75966 69285 74768 85031 17597  
46755 49623 01431 33180 07348 39719 56217 71900 41211 91855  
38731 32192 74167 78489 02929 17218 63906 72411 09520 89285  
90792 94568 33820 52875 91752 77215 50264 20965 10653 09590  
29525 44344  
367 52 00000

**5430 kHz, 19-11, 0800 UTC**

171 613 82

76251 82420 63321 84762 90001 63191 53772 48291 80345 76629  
37281 44882 00655 27163 85524 04072 74541 73392 56012 31062  
63880 93652 61710 87201 85491 63881 42608 90701 40027 55217  
63381 93671 53122 70436 62117 70239 55411 61911 63888 92441  
53790 84151 39959 00466 72261 84255 05003 77282 56201 60942  
52771 43902 33735 72431 88465 72209 00512 31210 62091 50544  
60011 74109 62420 52883 74507 54637 23110 63908 52660 74091  
52081 43309 70551 10103 40622 82146 70336 42801 63035 62091  
76351 82240  
613 82 00000

**10423 kHz, 22-11, 1300 UTC**

058 129 54 =

67405 95588 59675 40708 97607 09575 75622 06290 33557 23574  
87090 22059 59931 69933 75615 69698 30136 15663 51116 48190  
61028 29781 57404 45121 08200 53507 91855 78794 95269 40462  
75181 90825 95616 59076 32231 93911 89990 74399 69768 04469  
48438 51485 62161 14820 09985 47551 80915 84614 58510 85087  
28995 56186 18245 23123  
129 54 00000

**10755 kHz, 22-11, 1330 UTC, unscheduled**

975 146 52 = =

84782 96771 73738 85099 06704 24483 16008 80952 38083 89893  
25375 38086 68901 37997 77269 60971 13108 71529 25280 92137  
91284 08014 05153 25917 68085 10743 08418 70321 30409 23362  
74081 99264 17224 62761 71822 62291 56995 49953 75132 44022  
33646 83623 47832 90492 86986 86052 92407 44565 58564 76077  
33591 57625  
146 52 00000

**10423 kHz, 24-11, 1300 UTC**

058 (R) 746 746 58 58 = =

92955 96527 24140 31111 36234 66724 36231 57565 00735 61599  
28621 90348 22621 79914 59836 20700 26127 58050 62835 43661  
12712 09532 11360 33587 57343 00186 64512 10762 60347 01146  
01 Stops, then sends the id and resumes with group 26  
058 058 058 058 058 058 058 058 058 058 058 058 058 058  
058 058 058 058 058 058  
00186 64512 10762 60347 01146 00485 53822 28258 86860 75394  
75394 37664 82117 70326 68149 01530 16646 92695 97287 76954  
58731 09483 20729 30264 98676 40532 97092 84972 20933 16791  
67474 58572 30883 43775 = =  
746 746 58 58 00000

### 8167 kHz, 24-11, 1330 UTC

058 (R) 746 746 58 58 = =  
92955 96527 24140 31111 36234 66724 36231 57565 00735 61599  
28621 90348 22621 79914 59836 20700 26127 58050 62835 43661  
12712 09532 11360 33587 57343 00186 64512 10762 60347 01146  
00485 53822 28258 86860 75394 37664 82117 70326 68149 01530  
16646 92695 97287 76954 58731 09483 20729 30264 98676 40532  
97092 84972  
Stops, then sends the id and resumes with group 48  
058 058 058 058 058 058 058 058 058 058 058 058 058 058  
058 058 058 058 058 058  
30264 98676 40532 97092 84972 20933 16791 67474 58572 30883  
43775 = =  
746 746 58 58 00000

### The complete message on 10423/8167 kHz, 24-11, 1300/1330 UTC:

058 (R) 746 746 58 58 = =  
92955 96527 24140 31111 36234 66724 36231 57565 00735 61599  
28621 90348 22621 79914 59836 20700 26127 58050 62835 43661  
12712 09532 11360 33587 57343 00186 64512 10762 60347 01146  
00485 53822 28258 86860 75394 37664 82117 70326 68149 01530  
16646 92695 97287 76954 58731 09483 20729 30264 98676 40532  
97092 84972 20933 16791 67474 58572 30883 43775 = =  
746 746 58 58 00000



### *M21 + variants* *Russian Air Defence Forces* *Во́йска ПВО Voyska PVO*

4865.5 kHz, 19-11, 1549 UTC      = 991850??8????? =21198901050800 =1119944247749 =11199450247950  
=21198901040800 =991852??8????? =  
5323 kHz, 21-11, 1608 UTC      =991908??0????? =991909??0????? =991910??0????? (1610z)  
28012 kHz, 27-11, 2146 UTC      =990046??0????? =990047??0?????



### *M22 - 4XZ*

### 6607 kHz, 04-11, 1705 UTC, i.p.

VVV DE 4XZ 4XZ = = AR AR  
NW QTC 1 NR 211 = = NR 211 JR V GA1R 135140 QW1R GR 44 = =  
QRQRQ SEFLA JNUAQ OIOKA ECXIG DOASP KKMEH RIWTH UCXKS KYSTA  
GNAFI IZSOW FWYGL MZBBW IXRPG DFTQR AEQWL SYAXY GYCKP DWBGL  
LYZNL EEMJF AOWZM HFKID QFTDT FOFYK AICDF MWWPB IOUER SAZLX  
JAJYA ELCKT TWYTM FOWPF IFYYA FZMMF YDFOO GYQQX KESHO CTXYF  
= = AA GR 04 = =  
QSZNP FOPEH TEGUXT SDFLA  
= = NR 211 JR V GA1R 135140 QW1R GR 44 = =  
QRQRQ SEFLA JNUAQ OIOKA ECXIG DOASP KKMEH RIWTH UCXKS KYSTA  
GNAFI IZSOW FWYGL MZBBW IXRPG DFTQR AEQWL SYAXY GYCKP DWBGL  
LYZNL EEMJF AOWZM HFKID QFTDT FOFYK AICDF MWWPB IOUER SAZLX  
JAJYA ELCKT TWYTM FOWPF IFYYA FZMMF YDFOO GYQQX KESHO CTXYF

= = AA GR 04 = =  
 QSZNP FOPEH CGUXT SDFLA  
 = = NR 211 JR V GA1R 135140 QW1R GR 44 = = AR AR

VVV DE 4XZ 4XZ = = VVV DE 4XZ 4XZ = = AR AR  
 NW QTC 1 NR 111 = = NR 111 CP V JE6H 511140 GA2G GR 65 = =  
 GGGGG LSZTT NMIHY ZHNAU KEZMF IOQYD ZWXII AGMGQ CIBIL ALKIZ  
 XJAFB GZNGT JENDX RXHJH WJGTM QBXIP SOKHE ULYIJ KMIFP ZPWHG  
 XMGBW DNOAR DCGZO QKNHN ECYJL IMCSQ XGQTN ONTYX PKGRN MMKZM  
 ILOHZ XDNHD GPEYK AZZWJ JISZT AYUML AROEX EKZNR EWGCG WHYHG  
 = = AA GR 04 = =  
 SJEUA CNCDT BCFWA UDDIJ BUEGF RZFRA KIDHL SOBXO UOAMB UMTIS  
 HUQEU OGDPL JOPWK DCFMP IYLMC LSZTT  
 = = NR 111 CP V JE6H 511140 GA2G GR 65 = =  
 GGGGG LSZTT NMIHY ZHNAU KEZMF IOQYD ZWXII AGMGQ CIBIL ALKIZ  
 XJAFB GZNGT JENDX RXHJH WJGTM QBXIP SOKHE ULYIJ KMIFP ZPWHG  
 XMGBW DNOAR DCGZO QKNHN ECYJL IMCSQ XGQTN ONTYX PKGRN MMKZM  
 ILOHZ XDNHD GPEYK AZZWJ JISZT AYUML AROEX EKZNR EWGCG WHYHG  
 = = AA GR 04 = =  
 SJEUA CCTDT BCFWA UDDIJ BUEGF RZFRA KIDHL SOBXO UOAMB UMTIS  
 HUQEU OM DPL JOPWK DCFMP IYLMC LSZTT  
 = = NR 111 CP V JE6H 511140 GA2G GR N E5 = = AR AR

VVV DE 4XZ 4XM = = VVV DE 4XZ 4XZ = =



M24

**9463 kHz, 23-11, 1200 UTC, copied by Edd**

801 (R) 297 53 =  
 74846 42600 63806 41943 57803 11149 13943 12465 73964 81482  
 22128 80404 70902 63211 70176 88661 07234 95005 54341 08023  
 5952 30 Second Pause.

801 297 53 =  
 74846 42600 63806 31943 57803 11149 13943 12465 73964 81482  
 22128 80404 70902 63211 70176 88661 07234 95005 54341 08023  
 5952 40 Second Pause.

801  
 07234 95005 54341 08023 59526 47857 45387 46297 11718 40950  
 11660 82389 19249 1 Minute Pause.

801  
 11660 82389 19249 31050 09822 38757 65086 61382 72964 40681  
 49828 80908 50752 35791 83079 69955 81326 72280 68287 33133  
 99617 59254 98213 45466 11782 57638 03252 =  
 297 53 00000

**The complete message is:**

801 297 53 =  
 74846 42600 63806 41943 57803 11149 13943 12465 73964 81482  
 22128 80404 70902 63211 70176 88661 07234 95005 54341 08023  
 59526 47857 45387 46297 11718 40950 11660 82389 19249 31050  
 09822 38757 65086 61382 72964 40681 49828 80908 50752 35791  
 83079 69955 81326 72280 68287 33133 99617 59254 98213 45466  
 11782 57638 03252 =  
 297 53 00000

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**M41**  
**Russian Air Defence Forces**  
**Во́йска ПВО Во́йска ПВО**

André copied this busy net on several days.

**3357.5 kHz, 02-11, 1643 UTC**

722195 950 3998 9789 1617 0000 1819 K

**4788.5 kHz, 16-11, 1325 UTC**

WV1H 722194 950 2997 3449 1657 3150 1521

RPT 722194 950 2997 3449 1657 3150 1521

WV1H WV1H AR

**4643.5 kHz, 16-11, 1328 UTC**

ZCCF 722194 950 2997 3449 1657 3150 1521 =

722194 950 2997 3449 1657 3150 1521 K

**4643.5 kHz, 17-11, 1300 UTC**

ZZCF 6605 7280 0251 6424 1979 2677 8304 6040 8222

3539 8647 9236 1417 2146 7370 1446 8505 7927 0798

1155 8785 =

8090 9501 6984 1960 2483 0276 9478 2046 3101 9858

2842 0552 3411 8142 5620 8700 0972 0018 5858 5600

6153 =

ZZCF 6605 7280 0251 6424 1979 2677 8304 6040 8222

3539 8647 9236 1417 2146 7370 1446 8505 7927 0798

1155 8785 =

8090 9501 6984 1960 2483 0276 9478 2046 3101 9858

2842 0552 3411 8142 5620 8700 0972 0018 5858 5600

6153 = K

Stations KGDR, UDIN, ZZDC acknowledge the receipt of the message

**4643.5 kHz, 17-11, 1310 UTC**

ZZCF 9501 99 60182 1617 2180 1500 722194 9501 9960

1821 617 2180 1500 K

**4788.5 kHz, 19-11**

0627 UTC i.p. 9917993328120 9917993362524

0632 UTC 9917993361928

0639 UTC 9917998546936

0641 UTC 1929917

0651 UTC 009900990527104 51799009100511800

0709 UTC VVV WV1H WV1H

722194 990 3998 5776 1287 2260 0908 RPT 722194 990 3998 5776 1287 2260 0908

WV1H WV1H AR

9900998362308

0719 UTC 9900 998367116

0721 UTC 1929900

0731 UTC 009500 99837490930 51795007180511800 9500998374631 9500998375832 9500998376433

9500998376934 51795008180511800 95009983 76835 95009983 77436 95009983 770937

338950099837760938 9500998371239

0736 UTC 9500998377937

0739 UTC 9500998971840

0740 UTC 9500998371939 9500998971840 19295000940

0816 UTC VVV WV1H WV1H

722194 991 2998 5679 1288 2100 1011 RPT 722194 991 2998 5679 1288 2100 1011

WV1H WV1H AR  
0901 UTC ..51799219100511950 99219905251100  
0904 UTC 1929921  
0930 UTC VVV WV1H  
722194 992 9998 9256 1915 4300 1127 RPT 722194 992 9998 9256 1915 4300 1127  
WV1H WV1H AR  
1023 UTC VVV WV1H  
722194 950 1996 3441 1287 2040 1218 RPT 722194 950 1996 3441 1287 2040 1218  
WV1H WV1H AR  
1103 UTC VVV WV1H WV1H  
722194 995 9998 0691 2289 2050 1259 RPT 722194 995 9998 0691 2289 2050 1259  
WV1H WV1H AR  
1240 UTC VVV WV1H WV1H  
722194 9983 998 9792 1657 3280 1512 RPT 722194 9983 998 9792 1657 3280 1512  
WV1H WV1H AR  
1330 UTC VVV WV1H WV1H  
722194 9502 997 3449 1657 3150 1537 RPT 722194 9502 997 3449 1657 3150 1537  
WV1H WV1H AR  
1332 UTC VVV WV1H WV1H  
722194 998 9998 9219 1287 1190 1540 RPT 722194 998 9998 9219 1287 1190 1540  
WV1H WV1H AR

**4643.5 kHz, 19-11**

1028 VVV VVV EA3P EA3P  
722194 950 1996 3441 1287 2040 1218 722194 950 1996 3441 1287 2040 1218 K  
OLAD R 722194 950 1996 3441 1287 2040 1218 K  
R K  
7PVD R 722194 950 1996 3441 1287 2040 1218 K  
R K  
ESE2 R 722194 950 1996 3441 1287 2040 1218 K  
R K  
1105 UTC VVV VVV VVV EA3P EA3P  
009660 855 8541 3125 1796 6081 0051 1500 009660 861 5854 1322 5179 6808100050 0199 6060 1313  
1255 UTC VVV VVVV EA3P EA3P  
722194 950 2997 3449 1657 3150 1537 722194 950 2997 3449 1657 3150 1537 K  
OLAD R 722194 950 2997 3449 1657 3150 1537 K  
R K  
7PVD R 722194 950 2997 3449 1657 3150 1537 K  
R K  
ESE2 R 722194 950 2997 3449 1657 3150 1537 K  
R K

Stations KGDR, UDIN, 2ZDC acknowledge the receipt of the message



**M89 - Chinese military**

**4859 kHz, 14-11, 1433 UTC**

i.p. U7DN 74T5 74T5 7645 UT7D 767U 3AUT ...  
III 3UTA AR  
MSG  
NR 055 CK 301 45 1114 2230 =  
3TUA 7DT6 A75T U5A7 3TUA DNAT 7564 U54T TT7A TTT4 (Cont'd)  
III 3UAT AR  
V NG3Y DE 2QLC

**8341 kHz, 15-11, 1015 UTC**

NR 1309/EX 1814 =  
UA6/HE7 AR  
NR 1309/EX 1814 =  
UA6/HE7 AR  
NR 1309/EX 1814 =  
UA6/HE7 AR  
FF NR 1310/EX 1817 =  
LN8/YE9 AR  
NR 1310/EX 1817 =  
LN8/YE9 AR  
NR 1310/EX 1817 =  
LN8/YE9 AR  
FF NR 1311/EX 1820 =  
DS0/RK1 AR  
NR 1311/EX 1820 =  
DS0/RK1 AR (Cont'd)

**8346 kHz, 15-11, 1009 UTC, i.p.**

= SE7/QL9 AR  
WEX R4PXR4 PTUR 4P PXR40  
FFF NR 1405/EX 1809 =  
JII/JR EEEEE  
NR 1405/EX 1809 =  
JII/JR9 AR  
NR 1405/EX 1809 =  
JII/JR9 AR  
NR 1405/EX 1809 =  
JII/JR9 AR  
WEXR = PXR4 PXR4 PXR4 WEXR4 WEX R4  
FFF NR 1406/EX 1812 =  
KI3/CDJ AR  
NR 1406/EX 1812 =  
KI3/CDJ AR  
NR 1406/EX 1812 =

**6322 kHz, 17-11, 1009 UTC, i.p.**

4NA5 D353 NT4T 3DA6 DTAN AR AR  
VV DD3G K  
R R U QSY TO NR 06 NR 06 K  
R SK  
VV W3FA K  
R R U QSY TO NR 10 NR 10 K  
R SK  
VV 7JLO K  
R R U QSY TO NR 08 NR 08 K  
SK

**5075 kHz, 21-11, 1039 UTC, i.p.**

NTTNNA DUDN II =  
445T AR K (1039z)  
U5XY U5XY DE RC3U RC3U K  
R RPT 01W T EEEEE  
HR W EEEEE  
RPT 01W 0592 K  
HR RPT 01W 0592 K  
R HR RPT 02W 1247 K  
R O EEEEE  
OK U KP K  
F2PI F2PT DE RC3U K

U5XY U5XY DE RC3U RC3U K  
R U MSG GA K  
R GA (Other station not heard on this frequency)  
R FM 91W GA K  
R FM 91W GA K  
RPT 92W K  
RPT 200W K  
R RPT 71W K  
R QSL 1902 K  
R SK SK  
F2..

**6847 kHz, 22-11, 1020 UTC, i.p.**

R QSA 1 K  
R IEC = 5457 AR K  
R IEC = 21.5 K  
U 143 K EEEE IEC = 214 EEEEE  
IEC 2143 AR K  
R VVV P.FE DEEEE  
VV BIII  
VV .4FE ... K  
R DE P5FEK  
R IEC = 5421 AR K  
R IEC = 5743 AR  
VV OSTIII  
VV O4Z. DE J... K  
IEC = 8873 AR K  
IEC = 8871 AR P K  
R IEC = 823 AR K  
VV H3EB K  
R ....  
VV .. R QSA ? K  
AS.. QSA 2 K  
R IEC = 8858 AR K  
R IEC = ... = 7.2. AR K  
R VV 77.. 2 AR K  
IEC = = 6036 AR K  
R VV Z2DM K  
R DE O7D. K  
R IEC = 7760 AR K  
R IEC = .2. EEEE  
IEC = 4226 AR K  
R VV O4UK K  
R IEC =  
QSA ? K  
Q...  
R IEC = 8176 AR K  
R VV W5UL K  
R FF K  
R GA  
NR 9590/EX 1827 RMKS CQ K  
R GA K  
R =  
WJU3/D4D3P = =  
WJ.3/D4D3 AR AR K  
R QSL 182. K  
R 7G GA K  
R GA K  
NR 9591 CK 300 76 1122 1800 RMKS CQ K  
R GA K

**6847 kHz, 22-11, 1034 UTC**

753U 547A AUT4 D5UN D354  
III 3P = = A3U4 5T67 67AD (Cont'd)  
AR  
RPT K (1047z) (Cont'd to send repeats)  
R QSL 1850 K  
R U WK NR GA K  
R HR WK NR 547 K  
R VV  
P5FE K  
DE EJEW K  
R HR K  
WK 1P46W K (Repeats group for next station)  
R QSL QSL 1850 K  
R U WK NR GA  
R HR WK NR 118 K  
R VV O4ZM K  
R R DE I2CP (Repeats groups)  
R QSL 1852 K  
R U WK NR GA  
R R HR WK NR 101 K  
R VV H3EB K  
DE I9V.  
R CY HW K (Repeats groups)  
R QSL QSL 1854 K  
R U WK IIIII U WK NR GA  
R HR WK NR 04 K  
R VV Z2NM K  
DE O6DS K  
R CY HW?  
QSL QSL 1855 K  
R U WK NR GA  
RRWK NR NR 111 K  
VV O4VA IIIII  
VV O4VU K  
VV O4VU K  
DE ..... (Mostly unreadable)  
QSA 1 QSA 1 AS  
VV W5UL K  
VV W5UL K  
HR HR MSG NR 214 214 K K  
SK SK SK SK GB GB

**6093 kHz, 23-11, 0858 UTC, i.p.**

MSG NR 091 CK 301  
MSG NR 091 CK 301 7. 1123 1700 =  
A4.. 4N3TAN 56NU43UDN3DTA (Cont'd)

**4003//4859 kHz, 24-11, 1157 UTC, i.p.**

564N UTDT D6NU 4D6N UT4N AUAN  
III = DANT 7UA6 TUN3 D6D3 A5N7 (Cont'd)  
// 4859 kHz now sending the roundslip  
III = DTN4 AR  
A A NG3 (1  
C O Q L C V

Note: Although 4003 and 4859 are at times // when both are sending their R/S, indications are that they are both operating independently. At times, the speed of the roundslip is different on both frequencies. The fact that one frequency is sending a message, while the other also supports this.



**10221 kHz, 28011, 0820 UTC, i.p.**

MSG GA K

R MSG NR 4577/CCK CK 49 7. 1128 1600 RMKS 48.8 TO 4875 TO ..849 TO 4317 TO 4808 =

R GA K (Other station also on this frequency)

R D. GA = =

A54N 4NNU 3AA6 A3.U T745 (Cont'd)

**10233 kHz, 28-11, 0200 UTC, i.p.**

R NR 2202 CK 61 27 1128 0930 RMKS NR 96 TO NR 94

R GA K (Other station also on this frequency, but weak)

R =

UANT U7AD U374 67DN TUN6 36U5 A3N7 35U6 U3AD N73T (Cont'd) AR

R R QSL 100. K

R U MSG GA K

R R HR MSG GA K

R RPT K

R R HR MSG GA K

R GA K

R R

NR 0.05 CK 71 24 1128 0930 RMKS NR 94 TO NR 96 AR K

R GA K R GA K

R =

UAN4 4NUA 4.55 75U6 3A37 N5ND N4DD (Cont'd)

AR K

R QSL 1012 K

R R SK R SK

R RR OK

**10233 kHz, 28-11, 0807 UTC, i.p.**

NR 2194 CK 61 24 1128 1530 K

R GA K (Both station on this frequency)

R =

5765 DUA7 4NT5 66D5 TUU5 644D 754T T736 TUN5 TTUU ADNN (Cont'd) AR

RPT 21W K

R GA K

47T4 4ADU T37T D74D 7U3N (Cont'd) AR K

R RPT 28W K

R UUAT UUAT K

R RPT 32W K

R RPT 3T EEEEE R RPT 32W K

R AD63 AD63 K (Cont'd repeating groups)

R QSL 1616 AR K

R QSL 1616 K

R R MSG GA K

R GA

R NR NR 0250 CK 80 18 1128 1530 RMKS NR 93 TO NR 97 K

R GA

R =

67N3 6A35 D7A3 3U7T 4DT3 TND6 U45D 5U4A (Cont'd)

**4247 kHz, 29011, 1216 UTC, i.p.**

R IEC 3159 K

R AS K (Both stations on this frequency)

R HR MSG TOUCY

R OK MSG GA

R MSG NR 245 CK 100 44 1129 2015 RMKS 8345 TO 8397 TO 8345 K

OK GA

R R GA GA GA GA K

R MSG =

6N5D 3TA7 U4N6 5T3D A7U4 6NT5 3D7A 4U53 4TN7 AU6D 4D53 (Cont'd) AR  
R QSL 2023 WK NR 408 K  
R RPT WK NR K  
R R WK NR 408 K  
NR WK NR 408 K  
HR WK NR 408 K  
R WK NR 112 K  
R R OK MSG K  
R MSG GA K  
R NR 245 CK 100 44 1129 2015 RMKS = 8345 TO 8.9. TO 8345 K  
R 7G GA K  
=

6..D 3TA7 U4N6 5T3D A7U4 6NT5 (Cont'd)  
AR K (Same message sent by other station sent back to him)  
R AS K  
R RPT 43W TO 45W K  
RPT 43W TO 45W K  
R RPT 43W TO 45W = = A5D4 35.U 7TNA K  
R RPT 43W TO 45W = ..... 7TNA K (Cont'd to repeat groups)  
R QSL 2042 HR WK NR 112 K  
OK WK NR 408 K  
R NIL SK  
OK NIL SK

**6777//8060 kHz, 29-11, 0028 UTC, i.p.**

COMM =  
304/2151/2010/11/29/0900/001/A AR  
COMM = 304/2151/2010/11/29/0900/001/A AR

**4772 kHz, 30-11, 2044 UTC**

CYT8 DE UB6I K  
VV CYT8 DE UB6I K  
VV XY5D DE UB6I K  
VVV XY5D DE UB6I K  
VV YNIIII  
VV CYT8 DE UB6I K K  
VV CYT8 DE UB6I K  
VV XY5D DE UB6I K  
VV 7MJE DE UB6I K  
VV 7MJE DE UB6I K  
VV M  
VV 7MJE DE UB6I K  
VV XY5D DE UB6I K  
V K DE  
DE YSQ4 K  
U QRW 3404 3475 O EEE QSK 07 NR K  
AGN  
U QENW 3404 3475 O SK O  
OK  
K  
OK

**5295 kHz, 30-11, 1022 UTC**

VVV NTQB NTQB DE XG3H XG3H XG3H K K  
QSY NR 1 QSY NR 1 QSY NR 1 QSY NR 1 K K  
VVV NPPR NPPR NPPR DE XG3H XG3H XG3H XG3H K K  
VVV NPPR NPPR NPPR DE XG3H XG3S XG3H K K  
QSY NR 1 QSY NR 1 QSY NR 1 K K  
VVV PQTB PQTB PQTB PQTB PQTB DE XG3H XG3H XG3H K K  
QSY NR 1 QSY NR 1 K K

VVV PQT B PQT B PQT B PQT B PQT B  
 VVV PQT B PQT B PQT B PQT B PQT B PQT B K K  
 VVV VVV BNEB BNEB BNEB BNEB BNEB BNEB DE XG3H XG3H XG3H QSY NR 1 QSY NR 1 QSY NR 1  
 VVV BNEB BNEB BNEB BNEB BNEB DE XG3H XG3H K K  
 QSY NR 1 K K  
 VVV BNEB BNEB BNEB BNEB BNEB QSY NR 1 D EEEE QSY NR 1 QSY NR 1 K K  
 VVV BNEB BNEB BNEB BNEB  
 VVV BNEB BNEB BNEB BNEB BNEB DE XG3H XG3H QSY NR 1 QSY NR 1 QSY NR 1 K K  
 VVV BNEB BNEB BNEB BNEB DE XG3H XG3H K K  
 QSY QSY 0055 QSY 0055 K K (Long zeros)  
 QSY 0055 K K  
 VVV QSY 0055 K K  
 QSY 0055 K K  
 K K K K  
 QSY 0055 QSY 0055 K K  
 K K  
 QSY 0055 K K  
 QSY 0055 K K  
 BNEB BNEB BNEB BNEB QSY 0055 K K  
 K K  
 VVV BNEB BNEB BNEB BNEB BNEB QSY 0055 K K QSY 0055 K K  
 K K  
 VVV VVV VVV VVV  
 VVV PQT B PQT B PQT B PQT B PQT B DE XG3H XG3H  
 1 QSY NR 1 K K QSY NR 1 K K  
 VVV BNEB BNEB BNEB BNEB DE XG3S XG3S XG3S QSY NR 1 QSY NR 1 K K  
 QSY NR 1 QSY NR 1 K K  
 VVV BNEB BNEB BNEB BNEB DE XG3S XG3S QSY NR 1 QSY NR 1 K K  
 K K  
 VVV BNEB BNEB BNEB BNEB  
 VVV VVV BNEB BNEB BNEB DE XG3H K K  
 VVV NTQB NTQB NTQB NTQB NTQB  
 VVV VVV NTQB NTQB NTQB NTQB NTQB DE XG3H XG3H K K  
 QSY NR 1 QSY NR 1 K K  
 QSY NR 1 QSY NR 1  
 QSY NR 1 K K  
 QSY NR 1  
 VVV NTQB NTQB NTQB QSY NR 1 QSY NR 1 K K  
 VVV NTQB NTQB NTQB NTQB DE XG3S XG3S QSY 05 05 K K  
 KK QSY 05 05 QSY 05 05 K K  
 VVV BNEB BNEB BNEB BNEB BNEB DE XG3H XG3H XG3S QSY 05 05 K K  
 VVV BNEB BNEB BNEB BNEB QSY 05 05 K K  
 VVV BNEB BNEB BNEB QSY 05 05 K K  
 QSY 05 05 K K K K  
 VVV K K  
 VVV BNEC BNEC BNEB DE XG3S K K  
 VVV NPPR NPPR NPPR K K  
 VVV PREB PREB PREB PREB DE XG3H XG3H  
 PREB PREB K K K K  
 VVV PHPB PHPB PHPB PHPB PHPB DE XG3H K K  
 VVV NTQB NTQB NTQB K K  
 VVV VVV VVV VVV VVV NTQB NTQB NTQB NTQB NTQB NTQB NTQB DE XG3H XG3H K K  
 K K QSY 0055 K K  
 K K NTQB NTQB  
 VVV NTQB QSY NTQB NTQB QSY 0E EEEEE  
 VVV NTQB NTQB NTQB NTQB DE XG3H XG3H XG3H QSY 0055 K K  
 VVV VVV VVV NTQB NTQB NTQB NTQB NTQB NTQB NTQB  
 NTQB NTQB QSY 0055 K K K K



M95

**4243//9054 kHz, 01-11, 0901 UTC, i.p.**

A HR MS

NR 098 CK 23 35 1101 1640 =

UT5 TT. (Cont'd) AR

A HR PSE SB WK

**4243//9054 kHz, 01-11, 2348 UTC**

VVV HR MSG TOYR PSE CY

NR 06. CK .7 35 1102 0623 =

.UD UTT TTU (Cont'd) AR

MSG AGN

NR 006 CK .7 35 1102 0623 =

... UTT TTU 3U4 3A4 (Cont'd) AR

A HR MSG GA

NR 099 CK 2. 35 1102 0624 =

... ... T.T ... TTA TTU TT3 773 (Cont'd) AR

MSG AGN

NR 099 CK 21 35 1102 0624 =

AT. TT. 3U4 3A4 TTA TTU TT3 773 (Cont'd) AR

A HR MSG GA

NR 03 CK 065 35 1102 0700 =

TTU TT. 3U. UA4 TTU 773 (Cont'd)

NR 03 CK 065 35 1102 0700 =

UTU TTU ... TTU 773 (Cont'd) AR

MSG AGN

NR 07 CK 0D8 35 1104 0705 =

UT. TT4 3U4 3A4 TTU 773 353 U4T (Cont'd repeat message) AR

A HR UP SB WK

**4243//9054 kHz, 02-11, 1148 UTC**

VV HR MSG TOYR PSE GA

NR 002 17 35 1102 1536 BT

UT5 TTU 3U6 3A4 TTA TTU TT3 773 353 N3D

35U 4AU 446 4D6 N3D 4D3 3DU AR

7G AGN

NR 002 CK 17 35 1102 1536 =

UT5 TTU 3U6 (Cont'd) AR

A HR 7G GA

NR 007 CK 17 35 1102 1553 =

5TD UTT TTU 3U6 3A4 356 4A3 U7U N4A 434

3DA TTU TT3 773 446 3D3 4D3 AR

MSG AGN

NR 007 CK 17 35 1102 1553 =

5TD UTT TTU 3U6 (Cont'd) AR

A HR 7G GA

NR 04 CK 144 35 1102 1709 =

UTU TTU 3U6 3A4 TTU 773 353 N3D 35U 4AA (Cont'd)

III 2P = (1P = 1st Part of message = 100 groups)

3UN 353 4AA (Cont'd) AR

7G AGN

NR 04 CK 144 35 1102 1709 =

UTU TTU 3U6 (Cont'd) AR

A HR UP SB WK

**8073 kHz, 02-11, 1138 kHz**

V BNGC (x3) DE XSV85 (x2)  
HR MSG GA  
NR 0.79 CK 239 0  
NR 0989 CK  
NR 0979 CK 239 35 1102 .... =

**4243//9054 kHz, 04-11, 1149 UTC**

VV HR 7G TOYR PSE CY  
NR 010 CK 19 35 1104 1530 =  
57U 743 3U6 3A4 35U 4AA N3D 4T3 U7U  
N4A 435 3DA 777 773 436 3D3 4D3 AR  
7G AGN  
NR 010 CK 19 35 1104 1530 =  
57U 7 T3U6 3A4 35U (Cont'd) AR  
A HR 7G GA  
NR 08 CK 176 35 1104 1600 =  
UTU T4 3U6 3A4 7TU 773 353 (Cont'd - running letters together) AR  
MSG AGN  
NR 08 CK 176 35 1104 1600 =  
UTU TT6 3U6 3A4 TTU 773 353 (Cont'd) AR  
A HR 7G GA  
NR 008 CK 29 35 1104 1633 =  
UT5 TT4 3U6 3A4 TTA TTU TT3 773 356 (Cont'd) AR  
7G AGN  
NR 008 CK 29 35 1104 1633 =  
UT5 TT4 3U6 3A4 TTA TTU TT3 773 356 (Cont'd repeat message) AR  
A HR UP SB WK AR

**4243//9054 kHz, 04-11, 0929 UTC, i.p.**

TTU TT3 773 356 75D 36T 4AA 34. 3D4 T34 (Cont'd) AR  
MSG AGN  
NR 008 20 35 1A04 A633 =  
UT5 TT4 3U6 3A4 TTA TTU TT3 773 56 75D  
3.. TUAA3 4TT. . AR  
A HR UP SB WK

**5829 kHz, 07-11, 0936 UTC, i.p.**

RMKS 6507 TO 8017 TO 607 III  
OK QSL (Both stations on this frequency)  
OK HR MSG GA  
OK GA  
= = 34DN NA.. U3D4 4T7D D354 4T7U 53D4 TA7U (Cont'd)  
QSL ? QSL ?  
R PT 24 25  
RPT RPT RPT 24 25  
OK = = 3NT4 3UD6 III  
R 150 = = = 7D6. III  
RPT 16 17  
AS  
= = = UNA4 III  
RPT 16 TO 17  
AS  
RPT 16 17  
RPT 16 TO 17  
05 05 05 05

**4243 kHz, 08-11, 1148 UTC**

VVV HR MSG TOYR PSE CY  
NR 018 29 35 1108 1537 =

5TD UTT TTD 3U6 7TA N44 3A4 353 (Cont'd) AR  
MSG AGN  
NR 018 29 35 1108 1536 =  
5TD UTT TTD 3U6 7TA N3U DN4 43 A4 353  
4TA N3D 4TN (Cont'd) AR  
A HR 7G GA  
NR 026 17 35 1108 1621 =  
UT5 TTD 3U6 3A4 TTA TTU TT3 773 (Cont'd) AR  
7G AGN  
NR 026 17 35 1108 1621 =  
UT5 TTD 3U6 3A4 TTA TTU TT3 773 (Cont'd) AR  
A HR 7G GA  
NR 11 ... AR  
HR UP SB WK K

**4243//9054 kHz, 08-11, 2343 UTC**

V HR 7G TOYR PSE CY  
NR 027 CK 17 35 1109 0600 =  
UT5 ... (Cont'd) AR  
MSG AGN  
NR 027 CK 17 35 1109 0600 =  
UT5 (Cont'd) AR  
A HR 7G GA  
NR 019 CK 19 35 1109 0615 =  
.. 3U4 .A4 356 (Cont'd) AR  
7G AGN  
NR 019 CK 19 35 1109 0615 =  
5T7 ... 3U4 3A4 356 4TA N3D (Cont'd) AR  
A HR 7G GA  
NR 170 CK 77 35 1109 0700 =  
UTU TTA 3U4 3A4 TTU (Cont'd) AR  
A HR UP SB WK

**4243//9054 kHz, 09-11, 1141 UTC**

V HR MSG TOYR PSE CY  
NR 020 CK 27 35 AA0N 1530 =  
5TD UTT TTN 3U6 3A4 354 373 (Cont'd) AR  
MSG AGN  
NR 020 CK 27 35 AA0N 1530 =  
5TD UTT TTN 3U6 (Cont'd) AR  
A HR MSG GA  
NR 18 CK 147 35 AA09 16AT =  
..T TTN 3U6 3A4 TTU 773 (Cont'd) AR  
MSF AGN  
NR 18 CK 147 35 AATN A6AT =  
TUTT6 T TTN 3U6 4A4 TT4 733 444 (Cont'd) AR  
A HR MSG GA  
NR 029 25 35 AATN A655 =  
UT5 TTN 3U6 3A4 TTA TTU TT3 773 (Cont'd) AR  
MSG AGN  
NR 029 CK U5 U EEEEE  
NR 0UN CK 25 35 AATN A655 =  
UT5 TTN 3U6 3A4 TTA TTU TT3 773 (Cont'd) AR  
A HR UP SB WK

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

V A HR 7G TOYR PSE CY  
NR 022 CK 31 35 1110 1525 =  
5TD UTT T.T 3U6 7TA N44 3A4 353 4TN N3D 4A5 (Cont'd) AR  
7G AGN

NR 022 CK 31 35 1110 1525 =  
5TD UTT TAT 3U6 7TA N44 3A4 353 4TN N3D 4A5 (Cont'd) AR  
A HR MSG GA  
NR 032 CK 25 35 1110 1534 =  
UT5 TA. 3U6 3A4 TTA TTU TT3 773 354 365 33U (Cont'd) AR  
7G AGN  
NR 032CK 25 35 1110 1534 =  
UT5 TAT 3U6 3A4 TTA TTU TT3 773 (Cont'd) AR  
A HR MSG GA  
NR 20 CK 150 35 1110 1610 =  
UTU TAT 3U6 3A4 TTU 773 354 N3D 35U 4TN NAT (Cont'd) AR  
7G AGN  
NR 20 CK 150 35 1110 1610 =  
UTU TAT 3U6 3A4 TTU 773 354 N3D 35U 4TN NAT (Cont'd) AR  
A HR UP SB WK

**4243//9054 kHz, 11-11, 1148 UTC**

VV HR MSG TOYR PSE CY  
NR 024 CK 19 35 1111 1515 =  
5TD UTT T AA3 UT5 3A4 356 4TN N3D (Cont'd) AR  
7G AGN  
NR 024 CK 19 35 1111 1515 =  
5TD ..T AA3 UT5 3A4 356 (Cont'd) AR  
A HR 7G GA  
NR 22 CK 170 35 1111 1616 =  
UTU TAA 3U6 3A4 TTU TT. 773 353 (Cont'd) AR  
7G AGN  
NR 22 CK 170 35 1111 1616 =  
UTU TAA 3U6 3A4 TTU TT4 773 353 4TN 336 N3D (Cont'd)

**4283//7553 kHz, 14-11, 0912 UTC**

V BNAC(x3) DE XSV70 (x2)  
HR MSG TOYR PSE CY  
NR 1043 CK 128 35 1114 1535  
.UA UT3 TA4 3U. 3A4 TT4 773 35. (Cont'd)  
MSG AGN  
NR 1043 CK 128 35 1114 1535  
4UA UT3 TA4 3UD .A4 TT4 773 354 (Cont'd)  
A HR MSG GA  
NR 1044 CK 154 35 1114 1535  
.UA UT3 TA. 3U6 TT4 773 3AD 35A (Cont'd) AR  
7G AGN  
NR 1044 CK 154 35 1114 1535  
4UA UT. TA4 3U6 TT. 773 3AD 3UA (Cont'd)  
A HR 7G GA  
NR 1042 CK 132 35 1114 0730  
4UA UT. TA. 3U6 TT4 773 357 (Cont'd)  
7G AGN  
NR 1042 CK 132 35 1114 0730  
4UA UT3 TA4 3U6 TT4 773 357 4UT 445 (Cont'd)  
ZNN SK

**4283//7553 kHz, 14-11, 0913 UTC**

VVV  
V BNAC(x3) DE XSV70 (x2)  
HR MSG  
NR 10.. CK ..6 35 1015 16.1 =  
4283 (Cont'd)  
NR 1046 CK 1.. 35 1015 1..6 =  
(Into tfc - mostly unreadable)

MSG GA  
NR 1047 CK .5 35 1015 1.15  
4UA (Cont'd)  
NR 104. CK 173 35 1015 1516  
4TA UT. (Cont'd)

**4243//9054 kHz, 15-11, 1145 UTC**

VVV HR MSG TOYR PSE CY  
NR 032 CK 19 35 1115 15AT =  
4T. UTT TA5 3U6 3U6 3A4 35U 4TA N3D 4TN  
U7U N4A 444 3DA TTU TT3 773 445 3DU 4D3 AR  
7G AGN  
NR 032 CK 19 35 AAA5 A5AT =  
4TD UTT TA5 3U6 3A5 35U 4TA N3D 4TN U77  
N4A 444 3DA TTU TT3 773 445 3DU 4D3 AR (1150  
HR MSG GA  
NR 30 CK 112 35 AAT5 A6U5 =  
UTU TA5 3U6 3A4 TTU 773 35A (Cont'd)  
7G AGN (Did not send message number - probably messed up and restarted again)  
UTU TA5 3U6 3A4 TTU 773 35A (Cont'd)  
AR  
A HR MSG GA  
NR 047 CK 19 35 AAA5 A6UD =  
UT5 TA4 3U6 3A4 TTA TTU TT3 773 35U 4..  
445 346 4.6 4D6 N3D 4D3 3D. 46DU AR  
HR UP SB WK

**4243//9054 kHz, 16-11, 1146 UTC**

VV HR MSG TOYR PSE CY  
NR 034 CK 17 35 1116 1513 =  
5TD UTT TAT 53U T5. A43 4 ? 353 4TN U7U N4A 444  
35A ? TTU TT. 773 734 453 DU4 .3A EEEEEEE AR  
MSG AGN (Running letters/groups together)  
NR 034 CK 17 35 1116 1513 =  
5TD UTT TA6 3U6 3A4 353 4TN U7U N4A 444  
3DA TTU TT3 773 445 3DU 4D3 AR  
A HR MSG GA  
NR 050 CK 16 35 1116 1645 =  
UT5 TA6 3U6 3A4 TTA TTU TT3 773 356 4AA  
336 N3D 4TA 445 4D3 3DA AR  
MSG AGN  
NR 050 CK 16 35 1116 1645 =  
UT5 TA6 3A4 (Repeats message)  
AR  
A HR MSG (Missed message number due audio issues)  
AR  
MSG AGN  
NR 32 CK 128 35 1116 1705 =  
UTU TA6 3U6 3A4 TTU 773 35A U4T 353 (Cont'd)

**4243//9054 kHz, 2346 UTC**

VV 7G TOYR PSE CY  
NR 051 CK 17 35 1117 0613 =  
UT5 TA7 3U4 3A4 TTA TTU TT3 773 356 .6U  
4A7 34. N3D 4TN 445 4D4 3DA AR  
7G AGN  
NR 051 CK 17 35 1117 0613 =  
UT5 TA7 3U4 (Cont'd repeat message) AR  
A HR 7G GA  
NR 035 CK 17 35 1117 0621 =



5TD UTT TA7 3U4 3A4 35U .3 4TN U7A N4A  
434 3DA TTU TT3 773 446 3DU 4D3 AR  
7G AGN  
NR 035 CK 17 35 1117 0621 =  
5TD UTT TA7 3U4 3A4 35U 4TN ? UTU N4A  
434 3DA TTU TT3 773 446 3DU 4D3 AR  
A HR 7G GA  
NR 33 CK 66 35 1117 0705 =  
UTU TA7 3U4 3A4 TTU (Cont'd) AR  
7G AGN  
NR 33 CK 66 35 1117 0705 =  
UTU TA7 3U4 3A4 TTU (Cont'd - repeat message) AR  
A HR UP SB WK

**4243//9054 kHz, 17-11, 1148 UTC**

VVV HR 7G TOYR PSE CY  
NR 053 CK 16 35 1117 1508 =  
UT5 TA7 3U6 3A4 TTA TTU TT3 773 35U 33U  
357 36U 4AD 445 4D4 3DA AR  
7G AGN  
NR 053 CK 16 35 1117 1508 =  
UT5 TA7 3U6 3A4 TTA TTU TT3 773 35U 33U  
357 36U 4AD 445 4D4 3DA AR  
A HR 7G GA  
NR 036 CK 20 35 1117 1518 =  
5TD UTT TA7 34D 3U6 3A4 353 N3D 354 365 4TN  
U7U N4A 434 3DA TTU TT3 773 446 3DU 4D3 AR  
7G AGN  
NR 036 CK 20 35 1117 1518 =  
5TD UTT TA7 3U6 3A4 353 N3D 354 365 4TN  
U7U N4A 434 3DA TTU TT3 773 446 3DU 4D3 AR  
A HR 7G GA  
NR 34 CK 128 35 1117 1610 =  
UTU TA7 3U6 3A4 444 TT3 773 357 (Cont'd) AR  
7G AGN  
NR 34 CK 128 35 1117 1610 =  
UTU TA7 3U6 3A4 444 TT3 773 357 (Cont'd - Repeats message) AR AR AR

**4283//7553 kHz, 17-11, 0931 UTC, i.p.**

446 III N3D 44. 4D6 (  
7G AGN (Fading badly at times)  
NR 1053 CK 181 35 1117 .521  
4UA U.. TA. 3U6 .. TT5 TT6 773 3AD (Cont'd)  
A HR MSG  
NR 1051 CK 103 35 1117 0720  
..A UT3 TA7 3U4 3A4 TT4 773 357 37U 4T7 (Cont'd)  
7G AGN  
NR 1051 CK 103 35 1117 0720  
4UA UT3 TA7 3U4 3A4 TT4 773 357 37U 4T7 (Cont'd)  
ZNN SK

**4243 kHz, 18-11, 1148 UTC**

VVV HR MSG TOYR PSE CY  
NR 038 CK 21 35 1118 1530 =  
5TD UTT TAD 3U6 3A4 354 373 36T 4T7 N3D  
4TA U7U N4A 434 3DA TTU TT3 773 446 3DU  
4D3 AR  
7G AGN  
NR 038 CK 21 35 1118 1530 =  
5TD UTT TAD (Cont'd repeat message) AR

A HR 7G GA  
NR 36 CK 174 35 1118 1607 =  
UTU TAD 3U6 3A4 TTU 773 357 (Cont'd) AR  
7G AGN  
NR 36 CK 174 35 1118 1607 =  
UTU TAD 3U6 3A4 TTU 773 357 373 4TN 336 (Cont'd repeat message) AR  
A HR 7G GA  
NR 056 CK 33 35 1118 1654 =  
UT5 TAD 3U6 3A4 TTA TTU TT3 773 354 756  
373 N45 37D 36U N4D 353 4AD 33U N3D 4TA  
445 34U DUU DND N34 467 4D4 N3D 4D6 3DA  
N3D 3D3 AR  
7G AGN  
NR 056 CK 33 35 1118 1654 =  
UT5 TAD 3U6 3A4 TTA TTU TT4 773 354 756  
373 N45 37D 36U N3D 353 4AD 33U N3D 4TA  
445 34U DUU DND N34 436 467 4D4 N3D 4D6  
3DA N3D 3DE AR  
A HR UP SB WK

**4283//7553 kHz, 18-11, 1003 kHz, i.p.**

4UT N3D 4T3 445 (cont'd)  
7G AGN  
NR 1057 CK 146 35 1119 0.19  
4UA UT3 TAN 3U4 3A. TT4 773 354 U4D 353 4A5 N3D (Cont'd)  
ZNN SK

**4243 kHz, 18-11, 1150 UTC**

VVV HR 7G TOYR PSE CY  
NR 042 CK 29 35 1120 1527 =  
5TD UTT TUT 3U6 7AN 443 A43 (Cont'd) AR  
7G AGN  
NR 042 CK 29 35 1120 1527 =  
5TD UTT TUT 3U6 7AN 443 A43 (Cont'd) AR  
A HR 7G GA  
NR 40 CK 149 35 1120 1615 =  
UTU TUT 3U6 3A4 7TU 7TA (Cont'd)

**4243//9054 kHz, 18-11, 1155 UTC, i.p.**

AR  
7G AGN  
NR 044 CK 23 35 1121 1510 =  
5TD UTT TUA 3U6 7TA N44 3A4 354 373 N3D  
377 4AU U.U N4A 447 3D3 TTU TT3 773 44D  
46N 3D5 4D6 AR  
A HR MSG GA  
NR 42 CK 135 35 1121 1608 =  
UTU TUA 356 3A4 (Cont'd)

**4283//7553 kHz, 20-11, 0910 UTC**

V BNEC (x3) DE XSV70 (x2)  
A HR MSG TOYR PSE CY  
NR 1064 CK 100 35 1121 1530  
4UA ... TUA 3U6 3A4 TT4 773 354 373 N3D (Cont'd)  
7G AGN  
NR 106. CK 100 35 1121 1530  
4UA UT3 TUA 3U6 3A4 TT4 773 354 373 N3D (Cont'd)  
A HR MSG GA  
NR 1065 1.4 35 1121 153.  
4UA UT. .A 3U6 TTU 773 3AD 357 (Cont'd)

**4364//8073 kHz, 21-11, 1141 UTC**

V BNGC (x3) DE XSV85 (x2)  
HR MSG GA PSE CY  
NR 1034 CK 55 35 1121 1554 =  
T5T TU. N.3 (Cont'd) AR  
A HR 7G GA  
NR 1035 CK 305 35 1121 16.. =  
T.. ..3A 3.. TAT 773 (Cont'd)

**4243//9054 kHz, 22-11, 1150 UTC**

VVV VVV  
O O  
VL  
V HR MSG TOYR PSE CY  
NR 045 CK 22 35 1122 1516 =  
5TU ..U3UTA 7KN 443 A43 543 (Cont'd) AR  
7G GA  
NR 54 CK 151 35 1122 1615 =  
UTU TUU 3U6 3A4 TTD 7TA 7T7 73U 737 (Cont'd)

**4863 kHz, 22-11, 1013 UTC, i.p.**

05 05 05

**7553 kHz, 22-11, 0910 UTC**

V BNEC (x3) DE XSV70 (x2)  
A HR 7G TOYR PSE CY  
NR 065 CK 1. 12 0.

**8073 kHz, 22-11, 1141 UTC**

V BNGC (x3) DE XSV85 (x2)  
HR MSGS GA PSE CY  
NR 1038 CK 264 35 1122 1607 =  
TUU 3U6 3A. 3U7 TAU 773 (Cont'd)

**4243//9054 kHz, 23-11, 1150 UTC, i.p.**

7G AGN  
NR 048 CK 20 35 1123 1518 =  
5T7 UTT TU3 3U6 3A4 353 377 4A5 U7U N4A  
445 466 3DA 7U. 773 446 367 3D3 4D6 AR  
A HR 7G GA  
NR 079 CK 13 35 1123 1612 =  
UT5 TU3 3U6 3A4 TTA TTU TT3 773 35U 4TA  
445 4D6 3DA AR  
7G AGN  
NR 079 CK 13 35 1123 1612 =  
UT5 TU3 3U6 EA4 TTA TTU TT3 773 35U 4TA  
445 4D6 3DA AR  
A HR 7G GA  
NR 46 CK 136 35 1123 1615 =  
UTU TA3 3U6 3A4 TTU 773 35A U4T 353 4TA (Cont'd)

**5138 kHz, 23-11, 1031 UTC, i.p.**

735T AR K  
R QSL ... (Both stations on this frequency)  
R U GA  
NR 1123/CCK CK 19 66 1123 1831 =  
NR 1123/CCK CK 19 66 1123 1831 RMKS .826 TO ..0 EEE AR  
R GA K  
MSG = =

.5.D N447 UD57 (Cont'd) AR  
R QSL 1835 K  
QSL 1835 K  
R HR WK NR 11. K  
HR 012 AR K  
R HR WK NR 1026 K  
OK NIL SK GB  
NIL SK NA EEEE NIL SK GB

**5555 kHz, 23-11, 0951 UTC, i.p.**

5555 M 7G  
NR 3312 CK 210 56 1123 0620 RMKEEEE 3UUV =  
3T3A 64DT A75D 4TTN 4A4A 7746 7NDU NDDA 754N DT6T N35D (Cont'd)

**9153 kHz, 23-11, 0917 UTC**

V BNEC (x3) DE XSV70 (x2)  
HR MSG TOYR PSE CY  
NR 69 CK 53 49 1123 1700  
64T U46 34A U3A 346 DTT 6N5 (Cont'd)  
7G AGN  
NR 69 CK 53 49 1123 1700  
64T U46 34A U3A 346 DTT 6N5 ATN 5U6 (Cont'd)  
A HR MSG GA  
NR 70 CK 27 49 1123 1700  
63D 7.N 6N5 775 6TA N3T (Cont'd)  
7G AGN  
NR 70 CK 27 49 1123 1700  
63D 7.N 6N5 775 .6TA N3T 5U6 A46 5N6 (Cont'd)  
A HR 7G GA  
NR 0070 CK 135 35 1123 1545  
4UA UT3 TUU 3U6 3A5 TT4 773 354 75D (Cont'd)

**4364//8073 kHz, 23-11, 1140 UTC**

V BNGC (x3) DE XSV85 (x2)  
HR MSGS GA PSE CY  
NR 1043 CK 29. 35 1123 1557 =  
.33 A.. A 3U7 TAU 773 (Cont'd)

**4243//9054 kHz, 23-11, 2348 UTC**

V A HR 7G TOYR PSE CY  
NR 080 CK 15 35 1124 0625 =  
UT5 TU4 (Cont'd) AR  
A HR 7G GA  
NR 049 CK 20 35 1124 0630 =  
5TD .TT UTT TU4 3U4 (Cont'd) AR  
7G GA  
NR 47 CK 96 35 1124 0... =  
UT. TU4 3U4 3A4 TTU 773 35A (Cont'd) AR AR AR

**4243//9054 kHz, 24-11, 1147 UTC**

VV VV VV  
HR 7G TOYR PSE CY  
NR 050 CK 19 35 1124 1522 =  
5T. UTT TU4 3U6 3A5 A35 34A 5N4 N3D 4AA  
U7U N4A.... 434 3DA TTU 773 446 3D3 4D3 AR  
7G AGN (Operator runs letters and groups together)  
NR 050 CK 19 35 1124 1522 =  
5TD UTT TU4 3U6 UA 353 4A5 N3D 4AA  
U7U N4A 434 3.. TTU 773 446 3D3 4D3 AR  
A HR MSG GA

NR 48 CK 138 35 1124 1620 =  
TUU 43U 63A 4TU 773 35. (Cont'd)

**4364 kHz, 24-11, 1140 UTC**

V BNGC (x3) DE XSV85 (x2)  
HR 7GS GA  
HR MSG GA  
NR 1046 CK 279 35 1124 1630 =  
TU4 3U6 3AN 3U7 TAT 773 (Cont'd)

**4243 kHz, 25-11, 1150 UTC**

VVV HR MSG TOYR PSE CY  
NR 052 CK 22 35 1125 1531 =  
5T. UTT TU5 3U6 3A4 3.3 N3D 354 3T5 54A  
UT. 3D4 A5U 7UN 4A4 343 DAT TU7 773 446  
473 4D3 AR  
7G AGN  
NR 052 CK 22 35 1125 1531 =  
5TU UTT TU5 3U6 3A4 353 N3D 354 3T5 54A  
4AA N3D 4A5 U7U N4A (Cont'd) AR  
A HR MSG GA  
NR 50 CK 172 35 1125 1620 =  
UTU TU5 3U6 3A4 TTU 773 357 4AA (Cont'd)

**4364//8073 kHz, 25-11, 1143 UTC**

V BNGC (x3) DE XSV85 (x2)  
HR MSGS GA  
NR 1053 CK 45 35 1125 1540 =  
TAA N5U TU5 N53 TAD 47T TTT 474 (Cont'd) AR  
A HR 7G GA  
NR 1054 CK 292 35 1125 1543 =  
TU5 3U6 3AN 3U7 TAU 773 TA7 773 357 373 4T3 (Cont'd)

**4243//9054 kHz, 27-11, 1151 UTC, i.p.**

773 45A U4T 353 ... AR  
7G AGN  
NR 54 CK 133 35 AAU7 A6A7 =  
UTU TU7 3U6 3A4 733 5AU 4T3 534 TA4 464 373 (Cont'd) AR  
A HR GA  
NR 001 CK 20 35 AAU7 A6.. =  
U6T ... (Cont'd) AR  
7G AGN  
NR 091 CK 20 35 AAU7 A634 =  
UT6 .U7 3U6 3A4 TTA 773 (Cont'd) AR  
A HR UP SB WK

**4364//8073 kHz, 27-11, 1140 UTC**

V BNGC (x3) DE XSV85 (x2)  
HR MSGS GA PSE CY  
NR 1070 CK 47 35 1127 1559 =  
TAA N5U TU7 N53 TAD N54 (Cont'd) AR  
A HR 7G GA  
NR 1071 CK 345 35 1127 1600 =  
TU7 3U6 3AN 3U7 TAU 773 (Cont'd - 1150z) (Switched to 9054 // 4243 M95 sked)

**6668 kHz, 27-11, 0929 UTC**

TD2S de RLE8 HR MSG GA (IP - Machine sent - 0928z)  
MSG NR 040 EEEEE  
MSG NR 040/CCK CK 91 05 1127 1730 RMKS CQ BT  
7TDN UD63 UT3A 7NIUA NDU7 AT7U .637 64N3 (Cont'd - 0929z)

AR (0933z) (Message format suggests QV5B family)  
QSL ? HR WK NR 240 K (0933z - Silent)

**7553//9153 kHz, 27-11, 0914 UTC**

V BNEC (x3) DE XSV70 (x2)  
MSG P  
NR 1.. 5 3 334 51127 1....  
5.. UT. UT7 (Cont'd)

**4243//9054 kHz, 28-11, 2350 UTC**

3U4 3A4 TTA TTU TT3 773 356 336 AR  
A HR MSG GA  
NR 059 CK 21 35 1129 0623 =  
5TD UTT TUN 3U4 3A4 35U N3D 353 4A5 N3D  
4TN U7U N4A 434 3DA TTU TT3 773 446 3DU 4D3 AR  
MSG AGN  
NR 059 CK 21 35 1129 0623 =  
5TD UTT TUN (Cont'd repeat message) AR  
A HR MSG GA  
NR 57 CK 81 35 1129 0703 =  
UTU TUN 3U4 3A4 TTU 773 35A N3D 353 336 (Cont'd) AR  
MSG AGN  
NR 57 CK 81 35 1129 0703 =  
UTU TUN 3U4 3A4 TTU 773 35A N3D (Cont'd repeat message) AR

**4243//9054 kHz, 29-11, 1202 UTC**

34A N3U 446 4D3 3DA 34A AR  
MSG AGN  
NR 58 CK 169 35 1129 1618 =  
UTU TUN 3U6 3A4 TTU 773 357 336 N3U 373 (Cont'd)

**4243//9054 kHz, 29-11, 2347 UTC**

NR 098 CK 22 35 1130 0626 =  
UT5 T3T 3U4 3A4 TTA TTU TT3 773 354 365  
N3D 35U 4AA 446 343 N3D 4A5 447 4D3 3DU  
N3D 3D3 AR  
7G AGN  
NR 098 CK 22 35 1130 0626 =  
UT5 T3T 3U4 (Cont'd - repeats message) AR  
A HR 7G GA  
NR 061 CK 26 35 1130 0631 =  
5TD UTT T3T 3U4 3A4 35A N3D 353 365 4TN  
N3D 4A5 U7U N4A 445 N3D 446 3DA TTU TT3  
773 446 N3D 447 3D3 4D3 AR  
7G AGN  
NR 061 CK 26 35 1130 0631 =  
5TD UTT T3T (Cont'd - repeats message) AR  
A HR 7G GA  
NR 59 CK 115 35 1130 0655 =  
UTU T3T 3U4 3A4 TTU 773 354 373 34A N3D (Cont'd)  
MSG AGN  
NR 57 CK 81 35 1129 0703 =  
UTU TUN 3U4 3A4 TTU 773 35A N3D (Cont'd repeat message) AR  
445 34A N3U 446 AR  
7G AGN  
NR 59 CK 115 35 1130 0655 =  
UTU 3T3 U4 3A4 TTU 773 (Cont'd) AR  
A HR UP SB WK

**4283 kHz, 29-11, 1330 UTC**

4T3 446 N3D 445 4D6  
 III 445 4D6 TTN 773 3AD 354 (Cont'd)  
 III 75D 4D3 TA3 773 3AD 354 (Cont'd)  
 7G AGN  
 NR 1089 CK 228 35 1129 1506  
 4UA UT3 TUN 3U6 TT4 773 (Cont'd)  
 ZNN SK

**4243//9054 kHz, 30-11, 1150 UTC**

V = = IIN AS QRP SENN V  
 NR 062 19 35 1130 1505 =  
 5TD U.. T3U 6 7TA N44 3A4 353 4.. U7UN4A (Cont'd - running letters/groups together)  
 MSG AGN  
 NR 062 19 35 1130 1505 =  
 5TD UTT T3T 3.6 7TA N44 3A4 353 4A5 UTT  
 7UN4A4 463 DA7U (Cont'd) AR  
 7G GA  
 NR 60 CK 136 35 1130 164 =  
 UTU T3T 3U6 3A4 TTU 773 354 N3D 353 (Cont'd)

**4283 kHz, 30-11, 0957 UTC**

N3D 3DU TT5 TT6 773 354 373  
 III 3D4 TAU 773 357 373 4T3 447 (Cont'd)  
 ZNN SK

**UM10 - 10-minutes net**

All logged by JPL. We still have no idea who these guys are. Most like Chinese or from Eastern Russia.

Freq	Date	UTC	Details
3648	4-11	1849	10-mins net: OUCH
3805	4-11	1849	10-mins net: ZJL4
3648	5-11	1750	10-mins net: OUCH
3316	21-11	1416	10-mins net: OUC5 //3648 kHz
3648	21-11	1416	10-mins net: OUC5 //3316 kHz
6793	22-11	0855	10-mins net: XZTA (new c/s and new freq)
3535	27-11	2047	10-mins net: ZJL4 //3805 kHz
3805	27-11	2047	10-mins net: ZJL4 //3535 kHz
3316	27-11	2054	10-mins net: OUCH //3648 kHz
3648	27-11	2054	10-mins net: OUCH //3316 kHz
5826	28-11	0146	10-mins net: XZTA. New freq //6793 kHz
6783	28-11	0146	10-mins net: XZTA. //5826 kHz
6810	28-11	0146	10-mins net: KHFA
5891	29-11	0016	10-mins net: KSFA //6810 kHz. New call and freqs.
6810	29-11	0016	10-mins net: KSFA //5891 kHz. New call and freqs.
6793	29-11	0019	10-mins net: XZTA
3536	29-11	1249	10-mins net: ZJL4 //3805 kHz
3805	29-11	1249	10-mins net: ZJL4 //3536 kHz
3536	29-11	1754	10-mins net: ZJL4 //3805 kHz
3805	29-11	1754	10-mins net: ZJL4 //3536 kHz
6793	30-11	0019	10-mins net: XZTA
5891	30-11	0023	10-mins net: KSFA //6810 kHz
6810	30-11	0023	10-mins net: KSFA //5891 kHz

Freq	Date	UTC	Details
3316	30-11	1453	10-mins net: OUCH //3648 kHz
3648	30-11	1453	10-mins net: OUCH //3316 kHz
3648	30-11	1845	10-mins net: OUCH
3536	30-11	1849	10-mins net: ZJL4 //3805 kHz
3805	30-11	1849	10-mins net: ZJL4 //3536 kHz

## DIGITAL MODES



**HM01**

### Dirección General de Inteligencia

Modes: AM voice and RDFT

HM01's oddities in November.

#### **11635 kHz, 06-11, 2057 UTC**

Started with a switching error "this is Radio Habana Cuba" then gave partial email address and switched to HM01, into 5th group. 55332 61334 64165 52773 27167 37284

#### **11435 kHz, 07-11, 1558 UTC**

No carrier, abruptly into 5th group and data. Stops and restarts at 1603z: 55333 61335 64166 52774 25041 37285

#### **11435 kHz, 09-11, 1603 UTC**

Abruptly on with groups and data - strange 3rd group - repeat of same group that started 02-11 and in same position: 55335 61337 64161 52776 25042 37287

#### **11462 kHz, 26-11, 0457 UTC**

Short portion of the Cuban National Anthem followed by the id Radio Havana Cuba, then into YL SS 5FGs

## **M42 & X06**



Modes:

*Various digital modes, CW,  
Tones (Мазенка / Mazielka)*

## **Russian Government & Intelligence**





**16156 kHz, 11-11, 1300 UTC, Baudot 75/500. QSX is 18726 kHz. Logged by Mike.**

[illegible]

11100 70103 48625 11152 04109

52262 03104 41117 80790 05136 71538 25785 27440 09133 16276  
28208 08149 30159 81368 16287 75576 72304 66251 57088 89553  
32160 16065 62232 12732 20812 50362 25156 65703 83186 78626  
92479 52533 69464 76052 36626 92634 38221 18005 21904 19939  
95993 96622 81240 35276 02966 67972 45734 22924 99449 03221  
94234 67254 32857 42238 15134 30407 89848 73085 97541 76947  
63343 85816 94046 56427 09077 74036 22255 79791 71406 82645  
97272 50579 83032 25220 12343 36835 68338 19451 09811 9468  
05029 14097 09607 79538 23760 05866 87440 05748 50440 69687  
19889 40839 20898 50795 38562 45084 22600 92063 60542 92445  
43107 95037 87278 33801 29953 38091 89129 88397 91643 00149  
17733 74454 94449 63418 13396 14872 34690 93557 99695 78977  
91194 20723 82471 46233 87624 69937 95398 02867 19348 14205  
59336 07340 24551 48822 47622 85608 04273 10321 74528 42102  
21064 88469 49030 97360 30932 04786 61109 88280 28282 55984  
92756 91879 08537 45809 70871 58547 78111 53680 04242 65699  
66448 13591 71798 27785 19778 01701 54318 23568 81321 56057  
26779 26646 87593 76883 53543 50117 35508 80863 53564 41354  
99982 07881 27793 87801 06702 03625 65984 19761 89758 26523  
75088 21071 88837 52416 96403 83649 65642 75438 03690 66806  
44241 28512 99432 47290 05037 71920 51426 70992 87024 23378  
36891 42243 78051 28042 86285 11654 97739 91911 44020 48417  
02778 27027 88249 08032 69270 81940 76937 31368 31808 55864  
12378 36015 83985 19957 41355 85859 70012 94173 33146 49816  
22138 53116 02534 85664 23560 59329 70030 09908 01509 47474  
76498 39620 80194 07819 94346 17194 48307 42481 02501 53935  
20755 92866 17331 53447 99323 61728 96722 00739 61953 78299  
59479 27985 35319 79930 87245 92892 30393 08661 01134 30598  
45684 46178 30254 65039 67845 35583 14315 90733 24328 63422  
07504 60909 67772 00400 75813 42920 96832 24223 05027 26879  
43102 73015 61519 98454 78850 02734 73095 11768 25246 47023  
22015 23323 65750 02953 67431 72902 94380 91070 39403 22387  
53519 63208 71670 88411 40964 56477 65400 29811 90906 16902  
01068 75789 58514 41103 40670 05743 62827 09503 87463 16693  
67629 09462 95404 39241 05008 71791 45490 88002 71262 69093  
31170 57456 49883 49345 20038 99124 41245 03179 83980 41062  
03749 88287 14962 35544 36060 59404 68646 45933 55157 77276  
03043 08631 49865 95084 04350 31074 14565 45746 17201 11696  
92766 78525 21488 92802 85233 18404 22956 82294 02344 46642  
49754 05175 65377 25966 72135 70779 86419 18827 87477 66667  
81560 72154 37839 15109 97086 67064 52206 53108 53346

The experimental MFSK-16 mode has been noted on 26-11, 27-11 and 29-11 by linkz and Antonio.

26-11 & 27-11. 4min 30sec of data, no specific preamble

0900 UTC, 20834 kHz USB	0910 UTC, 19649 kHz USB	0920 UTC, 18303 kHz USB
0930 UTC, 16076 kHz USB	0940 UTC, 14477 kHz USB	0950 UTC, 13494 kHz USB

29-11. 4min 30sec of data, no specific preamble

1000 UTC, 16241 kHz USB      1240 UTC, 8133 kHz USB

Freq	Date	UTC	Details	Mode
16156	11-11	1300	Russian diplo. RYRYRY 11100 70103 48625 11152 04109	Baudot 75/500
10174	16-11	1302	Russian diplo/intel i.p.	CROWD-36
11456	18-11	1212	Russian diplo/intel i.p.	CROWD-36
16241	22-11	1003	Russian diplo/intel i.p.	CROWD-36
14722	22-11	1031	Russian diplo/intel i.p.	CROWD-36
11152	23-11	1101	Russian diplo/intel i.p.	CROWD-36
14786	23-11	1202	Russian diplo/intel i.p.	CROWD-36
10174	23-11	1301	Russian diplo/intel i.p.	CROWD-36

#### M42b – FSK 50/500

5803 kHz, 02-11, 0955 UTC, WYGL wkg 1 out station; message in digi mode after QTC1

#### M42c (F01) – FSK 200/500

#### 20741/18702 kHz, 04-11, 2230/2240 UTC via Cuba

The behavior with one minute early starts was reverted.

Link ID 00116, Date 4th, Serial #49, Groups 136

11177 00116 76319 04049 01369  
15547 65693 74525 47443 07868 84314 92068 92664 95048 71727  
22610 61594 90917 71159 77673 65639 48129 39088 50963 85611  
59848 10304 44476 31759 62178 57418 59753 88318 96433 38604  
88897 76430 30925 40594 69224 77548 12893 68021 05110 85064  
62586 28472 40629 90813 11034 03919 69338 05664 00462 67569  
87282 99602 76132 15991 49107 58704 80429 61042 22055 29028  
38040 91962 54499 36050 29435 17431 46942 26412 88928 88683  
83338 04768 90687 90333 73265 26587 96041 04870 86247 93928  
30178 91549 25749 94593 57081 99782 53490 20196 21207 31190  
56774 06474 85826 06646 28960 70101 37726 45202 90994 51037  
88604 67609 75978 53383 79378 74190 98858 43713 80979 93243  
71220 21751 74171 11704 08516 62196 48081 02297 56463 79749  
17060 85394 15415 54983 85222 70346 36334 43972 58902 47657  
13338 51087 63508 04113 49134 00000

#### 20741/18702 kHz, 11-11, 2230/2240 UTC via Cuba

Link ID 00116, Date 11th, Serial #50, Groups 194

11177 00116 81529 11050 01949  
93636 04496 64198 04905 50160 28849 83449 17576 24255 05297  
76812 03287 46380 49797 51378 09521 32733 23861 60919 15094  
96824 65347 47140 48334 61554 66967 56430 02538 50566 73408  
08153 51140 11857 85160 91249 01443 25132 60696 80867 54460  
55391 50496 74309 66045 82868 53401 77808 97839 72502 48062  
65663 41713 08290 10816 78821 38935 41227 79140 47876 80861  
45259 38843 50593 46253 20009 80967 21448 49844 19680 93638  
95017 19826 75939 97973 50419 41436 42276 18511 30644 75382  
73537 48001 64583 12295 54631 20651 94468 10812 98868 20249  
81564 68635 74240 27201 61949 96942 02368 92867 35359 59799  
05210 20636 94840 84482 42779 93984 08059 09182 87684 89837  
07196 30148 66661 78296 59437 82887 60491 22246 02398 68697  
26889 88168 04844 29645 54705 76435 37328 30866 97193 71235  
70260 73718 47689 63969 75605 27663 24360 43637 49429 38245  
43224 74161 68704 96951 60222 27361 00723 10748 01873 47134  
42464 98425 72744 05600 40320 86992 35481 07249 92366 77469  
60995 17308 54394 62386 27076 74312 47558 07737 79320 78207  
14611 28871 01079 07693 36498 46997 80143 59438 55283 18270  
52611 78867 74900 27162 04822 33272 45416 80488 35247 47565

76970 32380 50192 00000

**20741/18702 kHz, 18-11, 2230/2240 UTC via Cuba**

Link ID 00116, Date 18th, Serial #51, Groups 184

11177 00116 39518 18051 01849

29776 81203 28746 38049 79751 37809 52132 73323 86160 91915  
09496 82465 34747 14048 33461 55466 96756 43002 53850 56673  
40808 15351 14011 85785 16091 24901 44325 13260 69680 86754  
46055 39150 49674 30966 04582 86853 40177 80897 83972 50248  
06265 66341 71308 29010 81678 82138 93541 22779 14047 87680  
86145 25938 84350 59346 25320 00980 96721 44849 84419 68093  
63895 01719 82675 93997 97350 41941 43642 27618 51130 64475  
38273 53748 00164 58312 29554 63120 65194 46810 81298 86820  
24981 56468 63574 24027 20161 94996 94202 36892 86735 35959  
79905 21020 63694 84084 48242 77993 98408 05909 18287 68489  
83707 19630 14866 66178 29659 43782 88760 49122 24602 39868  
69726 88988 16804 84429 64554 70576 43537 32830 86697 19371  
23570 26073 71847 68963 96975 60527 66324 36043 63749 42938  
24543 22474 16168 70496 95160 22227 36100 72310 74801 87347  
13442 46498 42572 74405 60040 32086 99235 48107 24992 36677  
46960 99517 30854 39462 38627 07674 31247 55807 73779 32078  
20714 61128 87101 07907 69336 49846 99780 14359 43855 28318  
27052 61178 86774 90027 16204 82233 27245 41680 48835 24747  
56576 97032 51182 00000

M42d (F06) – FSK 200/1000

Link 16404 / 16405

**12158/11428/9439 kHz, 01-11, 1400/1410/1420 UTC**

Link ID 16404, Date 31st, Serial #13, Groups 139

1be9 4014 7cb1 3620 98e5

fc5a 4ac0 4edb 3647 56b3 c961 7ef3 a768 9bf7 e3a2  
26aa d708 f45c 9434 fa71 1052 9a36 3b6c cbe7 242c  
b3d0 11ea de72 46cf 97db 6ed5 0629 0918 7e50 d700  
1d65 1490 2edd b86b 62e9 ac26 c4c8 73dc 8f28 c254  
8548 16f0 1e8b 7ca2 e82a cd0b ad2c 35d7 9e1d 0a6d  
1ed5 d1ef f594 7745 a9ea ab7b fc34 eb58 b690 f01e  
be38 a96b 0ecd 737f 4e90 e6aa 5508 ec22 0d4e 970b  
6cf2 8f74 e8e8 fc65 0198 f092 2c5a 26fb a6c3 e27d  
5686 2a0d a3bd 64b5 cff4 5419 8850 682c b798 dcdd  
12f2 f20d 5a31 ebc7 f72a fa9d 174c b228 f55f df40  
b274 d8de 994a bead 3f17 2ed2 4d27 704b 75b7 e932  
0d69 987b c366 7112 0e87 20ef e8fc 0f59 acbe 5945  
17c7 e745 1da1 761f 2f9a 4e46 d982 47d1 5e89 b46d  
4030 6995 5c2d e728 0847 8199 de78 7f14 837d

**12158/11428/9439 kHz, 06-11, 1400/1410/1420 UTC**

Link ID 16404, Date 25th, Serial #12, Groups 64

1be9 4014 1c3c fa1e 46f4

5e70 c5b9 2468 7b97 674f 8a4c 83ef 36ca eb64 c8bc  
659b d490 54eb a13b efb2 75e8 3567 f3c3 56b8 ce04  
8f78 a748 8b45 15bb 7ae1 4107 28d9 cdb6 78e3 4bd0  
dfd1 a5e6 b892 e5d8 db35 4bed 1931 f57a ac0f 3542  
34b3 9858 71ad 8077 29da 0627 d292 2491 4f95 b942  
2cc1 065a 41ec 59b8 a48e 862b 8f0b 7364 10c1 72f1  
305f a926 9f33 b200

**12158/11428/9439 kHz, 08-11, 1400/1410/1420 UTC**

**12133/10274/8148 kHz, 08-11, 1500/1510/1520 UTC**

Link ID 16404, Date 7th, Serial #14, Groups 139

1be9 4014 7a1c 4623 98e2  
bdaa ad38 9f5e 7979 8c3f 1762 10bd 7ca7 8773 c44c  
68dc c9b8 58aa f25b a574 af41 e198 0927 5023 1b10  
2cad df3b cd78 1fc9 1581 e20f 43f7 f5a9 cce9 0627  
e5cf 297d 47c2 3655 3db8 6d95 0e41 1ec4 e55a 3746  
e03a d3a3 f50e 0735 2251 c8fa 5df4 232c 7ee0 b0fe  
6219 4d1b d0a4 3290 0aa2 98e6 9de3 09d4 4ba8 5c59  
c077 4482 0f47 161a 0b76 7232 ce9a 4383 c718 68d5  
a932 9d91 8114 8c63 90e3 50d9 9cad 265e 6ea3 c563  
c027 3398 d24e fb94 b7d1 ec53 c768 58f8 a050 8dcd  
10ba c508 89a1 43c4 7eae 8e0a 0926 7aac d61c d078  
9e86 a3b5 2c3e 8052 fde7 1cdd 08e1 b3d4 52c3 8eae  
8bcb 631d 223c 29d8 9047 8899 bd00 69ac 918d 289e  
cb95 f8aa bc45 d35a 0417 6ec7 9be4 ea61 76c8 370c  
8d2f 0514 5778 4db0 a669 5c5e d47d bf50 8d7d

**20476/18915/16328 kHz, 09-11/10-11/23-11/24-11, 0900/0910/0920 UTC**

Block No 0 : Total Message Size 32 blocks : This transmission contains one message.

Block No 1 : Link ID 16405 : 8th of month : Msg Number 015 : Msg Type 07145 : Group Count (?) 212  
47512 19346 17824 32957 05092 00320 64920 25639

Link ID 16405, Date 8th, Serial #6, Groups 194

1be9 4015 b998 500f d4ea  
45a0 4b92 738c fd42 da20 25a2 b86a a59f e745 2252  
9592 b52b 2680 d76e fb68 1406 4ef4 e47d 488a 84a3  
fbdf 1e2f 4265 0a89 7987 504c 28c9 e8f1 209c c017  
e064 359a e2a1 aa0c f97b 0a13 f0c6 c4aa 61cc b098  
5a2b dd70 0574 59f5 7fbc 02ad 353b 285b b481 fb96  
79e9 2758 c647 a417 bd5c 3c8f bbe5 8b11 40a4 7ee9  
d203 144a f0e3 a308 9f44 acf1 8e5e 5e55 0927 a113  
4926 ef21 bedb 46f3 caf1 1dbc eee1 e796 7049 2c32  
214c a518 eb3a 8395 1c5e 1911 8e71 0d21 4af4 1356  
7d61 c1ce 9b43 bb49 0b18 72b4 2ea2 1618 0e4e 6257  
b771 7b12 b925 b95b d154 8965 0b68 82ba 0518 61a4  
b6da eaa3 5cc9 6569 98c2 f756 f381 c978 4598 56e8  
3cf0 e6a4 768a bb0f a8de 242c 9a86 4c05 0a28 9205  
5e17 5ae7 e51f 59bf 45c7 a5dd 0d4d fd87 4104 442a  
85e8 94d5 a4e6 4cc0 fe97 cb69 8c3f baf1 0340 f4a9  
3197 4079 22ec 81ca f26b 9de2 a54a f19d 3a32 28da  
cc46 d8bd a795 558f d978 a6c8 0ac2 8f7b aa8e 81e7  
6930 97c1 b80f bf4e 3597 3d7a 88a4 218f 949f 718d  
5def d6d8 862f 3c44 bb73 28ea a99e 4f8a 323f 0897  
a5b3 6fe6 1cdd 29b4

**12158/11428/9439 kHz, 15-11, 1400/1410/1420 UTC**

**12133/10274/8148 kHz, 15-11, 1500/1510/1520 UTC**

Link ID 16405, Date 14th, Serial #15, Groups 139] Danix TUE

1be9 4015 d2d8 8c25 98e8  
afd8 8300 136c 04cc 8cdc 5de5 b9b2 8c0e 34d9 d495  
7659 c25f 68b1 a14e bcf3 7941 61f8 2173 2dd4 d4a2  
0928 431d 8b42 e97c 8845 220f 94f6 5b79 48e5 1538  
c251 aac0 1437 3f05 3657 0ac1 0c31 25ee 6542 8d4e  
4074 5f6b 6514 e923 317a ce80 8ca9 963f 0931 44f2  
f916 7072 cd32 2c68 32d3 6d66 1ac2 5938 957a 1901  
138c e7a5 59b4 b0dd d442 62e8 fc62 f376 7cc2 48de  
8d30 5209 f8d8 b0c5 b50c 047a 28b5 8ed8 a1f8 72ca  
9bc1 9e17 43c1 0300 0b2e 9376 f619 3140 53f8 7ee3  
0f3b 14e3 ebd8 61cc 9725 24fe a924 6916 16ae 4f68  
f5a9 4966 8b62 9f4d 5f76 3e61 6675 0deb 1350 74b3  
a38d add7 37db 6cc6 196e 2aec d172 1ae7 ae1b b6a1

a841 548d 8b94 fd76 e17d a511 9500 7aa5 9a94 93fd  
67e6 36ee 4f81 bc0a 82d8 90e6 905a 8e88 977d

**12158/11428/9439 kHz, 22-11, 1400/1410/1420 UTC**  
**12133/10274/8148 kHz, 22-11, 1500/1510/1520 UTC**

Link ID 16404, Date 21st, Serial #17, Groups 139

1be9 4014 68cc d22a 98f8

7834 38e5 b6c8 260c 5ea4 d4db b44d ac17 a7c3 35ae  
1b87 ecf5 bdf0 b5eb 7584 48c7 c518 142d 53b0 2980  
0f2e c278 1402 0d1f 7317 4888 8bf6 a36e 82fa 2328  
d2e0 25e2 22c4 211f 746b 956e 99e6 0f71 416f 5479  
597b dc52 0e42 b8d3 86cd 6d99 bc67 5c95 a46a 10fe  
b098 176c 3425 ba21 b32d c527 97b0 b296 74de c11f  
bcfc 941c 36be a3c2 2967 f450 eafe 23d9 9a18 146f  
d2ed 02b3 f392 9327 5910 8f37 f3ac b2a6 7325 836f  
6e88 2a83 c002 422b 0a4c 0702 bc88 fe28 c371 a2b1  
3047 8508 6c02 cfe1 fcc8 3da0 5987 d30c efe5 ee13  
8c0a 4ad5 c031 3983 e16d 8dc1 52f4 5b6b 0535 3e3a  
2bdf 228b 7d1b b3c6 0026 6797 5295 9b21 8118 e086  
b5d2 9e84 b9e1 845b 9a52 c64d 2325 c682 a62e 6358  
73bb 03cc aff4 4d17 9b90 da86 1830 0a90 ab7d

**12158/11428/9439 kHz, 27-11, 1400/1410/1420 UTC**

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.

7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08

Block No 1 : Link ID 16405 : 27th of month : Msg Number 072 : Msg Type 07145 : Group Count (?) 4

18789 00000 00000 01545 11934 34914 00893 42015

**12133/10274/8148 kHz, 29-11, 1500/1510/1520 UTC**

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.

7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,07,70,03,70,0e,30,0f,90,08

Block No 1 : Link ID 16405 : 29th of month : Msg Number 157 : Msg Type 07145 : Group Count (?) 4

27917 00000 00000 02475 01336 36849 00893 17900

Link 20492

**18573/16245 kHz, 09-11, 1025/1035 UTC**

Link ID 20492, Null message

**20439/18573/16245 kHz, 23-11, 1015/1025/1035 UTC**

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.

7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08

Block No 1 : Link ID 20492 : 23rd of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4

34244 00000 00000 03175 37104 34270 00893 23800

Link 20501

**11441/9069/7648 kHz, 01-11, 1650/1700/1710 UTC**

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.

Block No 1 : Link ID 20501 : 1st of month : Msg Number 157 : Msg Type 07145 : Group Count (?) 4

14320 00000 00000 01195 16418 35566 00893 45969

**12224/10173/8137 kHz, 06-11, 1530/1540/1550 UTC**

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.

Block No 1 : Link ID 20501 : 6th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4

39180 00000 00000 01746 12857 35272 00893 58403

**11441/9069/7648 kHz, 08-11, 1650/1700/1710 UTC**

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.

Block No 1 : Link ID 20501 : 8th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4

51652 00000 00000 00443 21447 36315 00893 11319

**12224/10173/8137 kHz, 13-11, 1530/1540/1550 UTC**

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.

Block No 1 : Link ID 20501 : 13th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4  
01476 00000 00000 01919 26517 34593 00893 22933

**11441/9069/7648 kHz, 15-11, 1650/1700/1710 UTC**

MsgNo 002/15th Type 07145 on Link 20501: 39180 00000 00000 01786 12857 33887 00893 29184

**12224/10173/8137 kHz, 20-11, 1530/1540/1550 UTC**

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.

7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08

Block No 1 : Link ID 20501 : 20th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4

39180 00000 00000 00617 12857 35510 00893 06986

**12224/10173/8137 kHz, 22-11, 1530/1540/1550 UTC**

7d,12,b0,e6,00,00,00,00,30,00,40,00,10,00,00,00,00,05,20,03,00,0b,00,00,f0,07,30,0c,b0,09,20,0e,50,03,40,06

Block No 1 : Link ID 20501 : 21st of month : Msg Number 157 : Msg Type 07145 : Group Count (?) 172

39364 17256 06667 13843 12857 36494 43201 39269

Link ID 20501, Date 21st, Serial #63, Groups 158

1be9 5015 99c4 d29d acf5

1a0b 4368 6f2e 385e f6b7 54a1 dedb cc34 9248 e80a  
c7e1 77e3 28c5 f58f 7a8e 42e1 8d37 b4ac 328f a0c0  
3137 17be 96d9 f07a a931 ace0 b700 b260 df4c 7bf6  
c3b4 4620 f735 066b 72d6 2593 afe8 6bbb 83c8 f5a4  
b3c6 c20f ead1 dc82 1d51 5030 2a6d dbcb 9d63 6793  
68f4 e012 80f9 73dd d630 2285 f22e adb3 10d5 9277  
fe64 6a7b cc3e 7c52 2d04 a822 0135 a4d0 8f3d 7e02  
8957 0031 b357 c9f6 dd54 c7d9 21ce c661 2e79 54bb  
c327 ee56 ddab d8ed 9d45 5ed3 0111 d2b7 b828 041c  
c620 4c9b b699 3759 a76a babf d9be 5715 4507 a9f3  
3ae7 0bdf f554 1d8c 471c 7240 de18 1a23 0bc0 872e  
39a4 61a8 a98c 2669 78dd ed6c 1a65 e058 a657 eb39  
e278 1482 8507 e58a 74ac 76f2 1e1a 5d68 245c 1eed  
f252 3a7f 9b0e 8954 a9c1 0274 7c2f 8bb7 2c4e 5f97  
8586 5fd7 5ac0 d2b7 a40b 9e8c 27ee 3708 2ea6 142c  
2831 5947 36e2 ca29 8539 5345 8cca a000

**12224/10173/8137 kHz, 27-11/28-11, 1530/1540/1550 UTC**

Block No 0 : Total Message Size 27 blocks : This transmission contains one message.

7d,12,b0,ee,00,00,00,00,30,00,40,00,10,00,00,00,00,05,20,03,00,0b,00,00,f0,07,30,0c,b0,09,20,0e,50,03,40,06

Block No 1 : Link ID 20501 : 21st of month : Msg Number 147 : Msg Type 07145 : Group Count (?) 172

37556 41941 26985 19850 16418 36726 65484 35597

**11441/9069/7648 kHz, 29-11, 1650/1700/1710 UTC**

Block No 0 : Total Message Size 3 blocks : This transmission contains one message.

7d,12,b0,e6,00,00,00,00,00,00,40,00,10,00,00,00,00,10,40,08,00,08,00,10,80,16,80,0c,e0,06,e0,1c,40,1f,20,10

Block No 1 : Link ID 20501 : 29th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4

39181 00000 00000 01133 12857 35150 00893 28574

Link 32816 / 32817

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

Block No 0 : Total Message Size 67 blocks : This transmission contains one message.

Block No 1 : Link ID 32816 : 29th of month : Msg Number 227 : Msg Type 07145 : Group Count (?) 198

32041 63203 20122 04483 59615 39340 11094 47878

Block No 0 : Total Message Size 82 blocks : This transmission contains 2 messages.  
Block No 1 : Link ID 32816 : 5th of month : Msg Number 230 : Msg Type 07145 : Group Count (?) 94  
20288 18913 24486 02336 59615 06698 08079 55078

Link ID 32816, Date 19th, Serial #94, Groups 309  
1be9 8030 8f04 beeb 45e4  
4542 3cd9 b514 bba6 e143 cd17 eee9 b129 7341 6cf9  
a003 a2ae d665 ebb5 d18a 6a92 7ecf f21b 048c 804f  
3bab b78\_ 5580 \_\_\_\_\_  
f6fe 3120 b54e d818 8c1d 5272 e0c2 1193 1d4\_ 1202  
5\_\_\_\_ 239 \_d\_\_\_\_ 3b2 be87 2c75 4657 610f 9280 90ca  
e122 2735 de26 6685 3e0c 923d 9253 5444 33d8 8000  
3e2b 30cd 755b 2368 76c2 a85b a2f5 3f07 7faa e3a8  
eaa7 4067 3444 1c2c 3451 f014 f171 3702 1cc1 cdc3  
35e7 8223 6cd3 fad3 7042 c0e9 \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ db6c a17b b622  
5524 8612 07fc b368 cab1 72\_\_ 699a d94\_ 569f 16\_\_  
0ad3 c9da 6d52 45dc 8007 67bd 7a74 7773 d895 9727  
a335 acac 6f5f d30d 2960 f667 e30d d1b0 2f40 681c  
7459 b9c2 97fc 2b6a 9534 074e 3e02 ec11 7c79 3935  
d658 9f6c 43ad a0e2 38fd 0b50 50b7 0a36 2813 386c  
78b9 0a94 8c44 6b11 0704 c9d2 2b80 66ec 05e3 7bd2  
\_\_\_\_\_  
\_\_\_\_\_ 83c5 3210 4021  
6106 50e7 6743 5be7 7fa7 960d 3bd7 8a49 0c58 2f61  
40f4 6d85 8253 2d98 0e9f 8f53 a403 ec42 98db 4a8b  
078c 2e89 7dec a213 bac9 \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ 4cb1 8865 219f 9310 66e3 8469 ba77 d7dc  
16ad 2c75 633a 69c9 9813 6486 6e87 68cd 990b 61df  
554f 2978 1286 3a22 4b4c ac8d 5732 c2cf f068 6c09  
ee14 7537 9238 30e7 97a2 c591 e4e9 33f2 6463 09e4  
502f 499a eb34 d063 1e28 b81c 3e98 b5af f646 b555  
c8d9 657b 0625 1a0c 4e48 e79b 7576 6876 7bed 21be  
48fa 35d8 60c4 0183 5187 3a71 9b8\_ 193c a28\_ bac7  
9cd\_ 2953 f641 7dce 51f0 8306 8fcc 4e42 3673 1158  
de5c 84d0 d892 216f de86 2788 7856 0ebc 6000

Block No 0 : Total Message Size 71 blocks : This transmission contains 2 messages.  
7d,12,b0,e6,00,00,05,00,80,00,c0,00,20,00,00,00,00,0f,20,0e,00,07,00,0d,fe,01,29,02,ed,0f,43,07,05,00,b8,0e  
Block No 1 : Link ID 32817 : 26th of month : Msg Number 237 : Msg Type 07145 : Group Count (?) 14  
03489 08611 29227 15908 00500 40073 13645 54436

Link ID 32817, Date 26th, Serial #95, Groups 248  
1be9 8031 0da1 04ed 0ee9  
722b 21a3 7f43 af49 05ef 5a95 93ec a0bb f7c3 dcc9  
4935 cb63 db39 689d c79c 90c0 b833 2a7a 439f b171  
33b9 62c6 4983 e826 ce7b 017a 5fdb ae75 0cc7 bd51  
951f a18a 2574 756f d5e3 46f5 0136 32c7 bd88 3a66  
b760 d702 defe 0b21 c776 9f1d daca 1fbd 67d5 d412  
2be9 7d17 f638 00df bfc4 c127 f6d0 8ee4 3413 2983  
d226 6fbe 76ea d7c0 a863 4e33 7ce7 da93 8511 d2ce  
004a f453 48b0 3d2c b776 1352 5145 b5d4 e323 dd69  
9cad 0518 474a 5b38 4b6a d302 59f5 fb85 bf13 d9a2  
a73f 1be2 2fe8 c169 2159 fc44 cf6c b45e 21fc 8664  
bf2b e162 bf31 0306 3b6a b8ad 87d7 6c46 79e4 e9ac  
a49e a16b b744 1064 f9c5 fbfd 4769 95bc 64be 2ba8  
ec72 db5c a77a bbad bb01 4893 44be 3644 6c53 0a58

e999 508f 2dcd 5f30 e4b3 34a8 a1a3 5627 1a1b aa3a  
a9fb 23c7 97ef 5f79 cd55 098d b1e2 4972 f587 ae9e  
ac7a b3e7 8d9a 175e 7089 8c76 516b 59ad 4a48 cc45  
fd1c 764c b7e6 d1a2 a7ff b278 1d7e 2782 aa1e 05d6  
6406 3f7d 5a93 646e 053b 7673 2c53 3eaf b79f a00f  
7857 f685 5ee1 e2f4 da47 ef20 2c59 92f1 4465 5073  
3863 b276 abc0 206d 1ddc 4b57 6bb3 4c29 5867 ec4c  
09a5 fcd7 ae34 c07d 6fb0 0fdb f242 111b b2f9 063d  
939a 76f7 9489 b447 9bc1 4ed2 2337 9591 b562 aebc  
68ca 1681 0580 e30d e66f 6b50 3766 88ee e120 a416  
b146 f53f 55c6 54ed 8d8e 9444 00c7 9b0d 574a 0866  
0eef b08b a8b6 7a54 d14c ec14 1855 aa00

Link ID 32816, Date 26th, Serial #96, Groups 185  
1be9 8030 53f9 04f0 cae8  
4ad8 e7e5 85dd f897 e787 2dcd b1a2 c2b8 b951 2490  
b96a 82b1 86d7 beb8 5ed1 0894 4123 d481 17d4 dfed  
fc48 0acc e6a8 5322 e008 7495 b3ba 5f0f f380 9164  
1715 4f5a 2d30 2945 4724 e765 0320 5ddf 1db2 db20  
72ef abb5 20bb 96a5 97cc ce95 6236 136a 4ecd d7fd  
b0d1 49cb 4420 bee2 24e8 5b1b 0446 4fc8 3255 2929  
b12a 1966 447b 5896 b837 f901 2972 508a 964b 58de  
594e ce14 413d 3269 1f68 a3eb 4a7e 7909 7941 0429  
5f91 c07c d521 9f1b 21ab 78d6 5e25 a9fa 7f06 3954  
8b4c ae85 9b44 9e39 15ba 0f6a 1a58 73d9 c43e 11a0  
8e2a c2cb e601 560b b7bb cc99 e945 2835 5d59 3825  
625f 6aa4 8f5a 20e7 4c7c 062f e7b2 fac7 5ad3 b3e9  
bc27 56cf 0500 12db 9812 2438 b668 7e06 e296 ccfe  
dd4c fca9 3a85 3da3 b835 db6d b2ca 3634 803a dba8  
c73c e564 3d28 2dc4 da0f 5be1 7c1d 9163 5c35 05fa  
352d 1212 b33d 8330 c3bb 6502 213b fd66 5206 ea83  
4ca8 3815 c3b6 7b08 7efb 3b76 cf8a 4633 da7c 00b5  
c78b 41bc de1e 9b2f 4321 bd9a 1fe2 f2cb 620a 8b64  
7263 5772 4d24 5494 9b00

Link 32821

#### **22871/20629/18553 kHz, 05-11, 1500/1510/1520 UTC**

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.

Block No 1 : Link ID 32821 : 5th of month : Msg Number 075 : Msg Type 07145 : Group Count (?) 4  
51652 00000 00000 00517 22795 03833 00893 50087

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

Link ID 32821, Null message

#### **22871/20629/18553 kHz, 19-11, 1500/1510/1520 UTC**

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.

7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08  
Block No 1 : Link ID 32821 : 19th of month : Msg Number 075 : Msg Type 07145 : Group Count (?) 4  
14924 00000 00000 01983 16767 03942 00893 59264

#### **22871/20629/18553 kHz, 26-11, 1500/1510/1520 UTC**

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.

7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,00,06,70,03,70,0e,20,0f,90,08  
Block No 1 : Link ID 32821 : 26th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4  
39181 00000 00000 02704 13740 35680 00829 17849



**14419/12128 kHz, 05-11/06-11, 1110/1120 UTC**

Block No 0 : Total Message Size 24 blocks : This transmission contains one message.

Block No 1 : Link ID 00000 : Corrupt Date : Msg Number 128 : Msg Type 07136 : Group Count (?) 152  
34048 43968 05007 32914 00776 00115 12288 00012

Link ID 36882, Date 3rd, Serial #71, Groups 139

1be9 9012 8580 1eb1 98f0  
379f abc8 e703 506f cd13 584f 33a8 68a0 0106 aecb  
6391 e169 8918 540f 15ca 2c02 444f 141d 7029 a879  
b513 78e8 5d39 3ad2 460c fba1 6246 00a9 9298 4c62  
5b5e 3f2a bcae 6311 f48d 3c9d ebf8 d516 0d8f 1439  
d198 6210 1b31 1287 ee0e 9013 862b 49c9 0fcc ce7d  
b208 80d0 464b 34f0 a648 321a 5b4d db57 e0ba d957  
0ed8 fb1d 20de 569d 6894 72f2 0257 77bf 05f5 b826  
77c2 99b7 2903 03b6 8870 d4f5 d851 c89b a948 8930  
47f2 cca4 665c 699e 608d e2b1 33be 0012 f7f6 62e0  
1b74 9c61 c5e2 af77 Oddb 01fc 3fdd 33eb 35e7 3875  
e8c9 adc8 39fd 3ca3 7cf6 2cbe 5865 1bc1 b10d 962d  
2088 c8d4 c0de 8ba7 3c0f 147e fd25 0b19 0ce6 6749  
e8a0 82cb d864 74c6 c6aa fcad 102b c619 eb25 b486  
5899 afd3 22ad 403e 5138 48d2 b5b2 4686 c77d

**16236/14419/12128 kHz, 12-11/13-11, 1100/1110/1120 UTC**

Block No 0 : Total Message Size 40 blocks : This transmission contains one message.

Block No 1 : Link ID 36882 : 11th of month : Msg Number 180 : Msg Type 07145 : Group Count (?) 8  
60348 46856 13431 39879 31234 06347 43063 17570

Link ID 36882, Date 11th, Serial #72, Groups 243

1be9 9012 ebbc 6eb4 08f2  
3477 b708 e983 5067 a543 a84f 97a8 6768 4114 aed1  
a391 9025 bab3 b6d1 2c0d c9e1 1f2e f010 50fa 4f17  
d0f4 25e3 2dc5 8687 a8a5 4649 6f5c 27c1 790c 0826  
c3b1 e004 8acc ce8c 2030 52da 28c9 7ccb d275 7812  
e302 35e8 6905 fa70 c153 136a c628 b83f 6688 4951  
4611 2982 bbb4 42a7 544d 0c0e f588 40f6 8f50 a690  
ea2c 527e ca78 c6cb 8a03 f376 9ee5 0f90 2073 34e9  
3a9b 70c6 2e0b 2a8b 3cc6 41e7 aebb 4f50 9b61 b426  
b516 b6d8 c85c d801 7b8f 1c86 f61e 417c 9852 c056  
6fd1 3210 ca79 5019 7b1b 7efe 639d a380 a983 2839  
c706 e849 5712 5caa 95f8 2c87 c1a0 ed60 ae4b 0a04  
554e 9a59 2465 37f5 a015 569d fec4 e90b b829 fb9d  
3927 251b 5964 40a8 f2cb 6a77 41a9 ddb5 f1e2 8aa1  
fab8 bcc6 1251 a9cd 9195 14f3 af22 0346 09b4 84c3  
d549 c5c7 956e 9078 2153 00cd f052 4586 cbd8 78dd  
3d71 ed68 d138 a759 e71e b194 d526 a5b4 7a5e e367  
a957 493c f924 58ce 92da 19ef 5ce9 8086 f911 3527  
726d dc38 2888 db7f 4713 4f95 f990 f070 4e7f f109  
a363 cf1a 7288 2ef4 e8da 25fe 5c45 1946 bbd0 2ba7  
6788 2c4c 47f9 1310 c184 8961 c9cd 9e02 6bbe 3b43  
d49b 4530 26cd b931 a7f3 b8e9 84ba 33d8 5af5 8d7f  
ee38 16a5 47a3 9dc2 51c8 0610 c817 cdab 4159 ee69  
9690 097a 181a 5e7a 39a8 f708 0e63 2c9b 1337 824c  
c4a0 58e8 e1e2 odb9 a037 f155 9f36 4864 60a2 1bb3  
9997 9388 8000

**16236/14419/12128 kHz, 19-11/20-11, 1100/1110/1120 UTC**

Block No 0 : Total Message Size 13 blocks : This transmission contains one message.

7d,12,b0,e6,00,00,00,00,10,00,80,00,10,00,00,00,00,0e,20,03,00,04,00,06,10,03,d0,08,d0,0b,d0,01,70,02,e0,0e

Block No 1 : Link ID 36882 : 18th of month : Msg Number 182 : Msg Type 07145 : Group Count (?) 78

53100 46376 62909 38100 31234 36284 61204 13439

Link ID 36882, Date 18th, Serial #73, Groups 71

1be9 9012 cf6c b4b6 4eec

f5bd b528 e983 5013 eb83 8a4f 97a8 5a4b c111 aed1

a390 5dd5 4a58 2d0f 39e0 4354 10ae faa9 7f0c 0064

c592 e04d 2ee0 aa37 de63 d50c e482 fe0e 4f33 37c6

e1b5 f6d7 13a6 cf28 0424 acdc 0a05 1def 956a 3b9f

2191 af2a d7d5 ec17 6d47 a235 2dee f4b8 b12d f92e

9ca2 4e49 2f4a 0f77 5175 4cb9 4fb4 3143 7209 2171

0666 1b7c 26df 1007 89b4 d148 9974 ae9e d8bd a5c1

44c0

**16236/14419/12128 kHz, 26-11/27-11, 1100/1110/1120 UTC**

Link ID 36882, Date 25th, Serial #74, Groups 191

Block No 0 : Total Message Size 32 blocks : This transmission contains one message.

7d,12,b0,e6,00,00,00,00,30,00,e0,00,10,00,00,00,00,02,20,01,00,01,00,0c,40,08,90,00,80,07,e0,01,b0,0a,00,08

Block No 1 : Link ID 36882 : 25th of month : Msg Number 185 : Msg Type 07145 : Group Count (?) 208

31596 47496 61791 38273 48247 00072 31177 20783

Link ID 36882, Date 25th, Serial #74, Groups 191

1be9 9012 7b6c fab9 d0ef

f15f b988 e983 5043 8d10 4c4f 97a8 6250 0128 aed1

a393 9cdd b8ae 4624 f361 22e4 cf46 45b6 5cfb 94a2

abc9 7281 f4b5 62cb e29c f466 f564 b4df 1b6d 4441

1cea f6a9 d04f 6b1e d5ac e829 8593 639a 9966 940c

ea38 c714 83a1 83a6 54e7 32b8 57d1 f455 ce1b 2a49

7be1 6707 273a 20ed fbc2 e496 5b9c e462 3317 7cce

b0f3 7184 97ae 64ce d5e1 12d4 e61f 1337 d425 cf85

9f9f 2502 528b e2ec cb16 6692 6d1c a2f0 e671 e689

e2ab 93ba bfbdb 6dca 08a9 7683 b981 169c e840 c913

c412 1753 46b6 9d4f 0887 51cb d52f 5183 e3e0 57b2

ef20 9e05 f9df 0562 d699 019c b178 a1bd ec79 f437

6335 bb2b de40 f6f9 6dda 68eb 3bdc 9a69 36bb c83a

a722 8367 7974 8960 4da3 5926 88dc 0674 031c 67c5

b4c4 322e 8f12 c4fc 0531 616f ed56 5da4 91c0 9cde

c9dc e793 05db 1249 6326 3233 66ae 1398 5182 d452

4cfe ec50 1fe6 fac6 067d 7105 67f5 1ac2 df39 1d87

2f08 43eb d5d0 845a d508 3d05 feb1 105f 9f23 45a7

ef2e 87f2 6a90 812b 8a4e a36a 3575 e075 ad01 9355

d9a0 83bb 8e4a 9904 37b5 34db 0160 15b7 44ae 7136

258

Link 40988

**8173/6836/5269 kHz, 01-11, 2300/2310/2320 UTC**

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.

Block No 1 : Link ID 40988 : 1st of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4

55564 00000 00000 02769 00624 34489 00893 63384

**8173/6836/5269 kHz, 08-11, 2300/2310/2320 UTC**

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.

Block No 1 : Link ID 40988 : 8th of month : Msg Number 180 : Msg Type 07145 : Group Count (?) 4

62700 00000 00000 01654 19784 03894 00893 28862

**8173/6836/5269 kHz, 15-11, 2300/2310/2320 UTC**

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.

Block No 1 : Link ID 40988 : 15th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4

55564 00000 00000 03242 00624 32974 00893 20923

**8173/6836/5269 kHz, 22-11, 2300/2310/2320 UTC**

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.

7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,18,c0,1f,c0,0e,f0,07,f0,1e,60,1f,30,10

Block No 1 : Link ID 40988 : 22nd of month : Msg Number 180 : Msg Type 07145 : Group Count (?) 4

55564 00000 00000 00490 00624 02419 00893 29391

**8173/6836/5269 kHz, 29-11, 2300/2310/2320 UTC**

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.

7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08

Block No 1 : Link ID 40988 : 29th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4

55565 00000 00000 03645 00624 36511 00893 17772

Link 45057

**20868/18259/16113 kHz, 12-11/13-11/26-11/27-11, 1000/1010/1020 UTC**

Block No 0 : Total Message Size 1 blocks : This transmission contains 0 messages.

Block No 1 : Link ID 45057 : 11th of month : Msg Number 222 : Msg Type 07145 : Group Count (?) 137

59052 29895 04677 14939 44730 33539 47935 60805

Link ID 45057, Date 11th, Serial #89, Groups 125

1be9 b001 e6ac 6ede 89e4

1245 74c7 df2e 2a82 8678 238a b412 53f6 2164 5895

cba7 9e82 2e82 dff6 edad c2c3 2d1b dd3f 3de5 fa94

e58f ab6d b5a9 cfc2 4f0d c986 cc78 c29f 4644 e5a0

1398 08e7 042c ff4d 3b40 a730 1b57 05b4 ec91 a954

b4b8 bff2 1d68 33c0 4467 6261 9785 e6b4 2896 6aec

8353 f8a5 3759 8ed9 aba5 52dd 25e9 2fd2 eb3e 4857

12b8 f476 584b d72b f2a0 4d34 f7d4 c79c abac 8acc

f8ff 21a8 f7c4 8461 18a1 eee7 eaf9 9e14 90c1 e440

6590 743c 4d7b e966 6a9d 4a13 09f8 44bf 921c 073c

bdc8 084d 4561 958b b43d e8c6 6fb0 42aa 5278 10c0

894e fb81 0d25 f0ad dd7c 6e08 2855 40b2 0337 8713

083d 0321 5f1e a2b6 aad6 ea55 4f9c 53c3 ca06 d159

9c66 3678 de6c 3d14 bd21

Link 45075

**20314/18183/16154 kHz, 02-11, 0800/0810/0820 UTC**

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.

Block No 1 : Link ID 45075 : 2nd of month : Msg Number 062 : Msg Type 07145 : Group Count (?) 4

50984 00000 00000 01612 29748 34303 00893 53268

**20314/18183/16154 kHz, 09-11, 0800/0810/0820 UTC**

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.

Block No 1 : Link ID 45075 : 9th of month : Msg Number 072 : Msg Type 07145 : Group Count (?) 4

30144 00000 00000 02724 26649 35888 00893 19723

**20314/18183/16154 kHz, 16-11, 0800/0810/0820 UTC**

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.

Block No 1 : Link ID 45075 : 16th of month : Msg Number 212 : Msg Type 07145 : Group Count (?) 4

59700 00000 00000 01578 09055 36748 00893 10437

**20314/18183/16154 kHz, 23-11, 0800/0810/0820 UTC**

**Wrong shift at 0800 UTC: 200Hz instead of 1000Hz**

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.

7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08

Block No 1 : Link ID 45075 : 23rd of month : Msg Number 210 : Msg Type 07145 : Group Count (?) 4

59284 00000 00000 04076 21930 00117 00893 55124

**20314/18183/16154 kHz, 30-11, 0800/0810/0820 UTC**

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.

7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08

Block No 1 : Link ID 45075 : 30th of month : Msg Number 045 : Msg Type 07145 : Group Count (?) 4

40261 00000 00000 00684 14597 02970 00893 01039

Link 45079

**7658/6778/5361 kHz, 07-11, 0500/0510/0520 UTC**

Link ID 45079, Null message

**7658/6778/5361 kHz, 21-11, 0500/0510/0520 UTC**

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.

7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08

Block No 1 : Link ID 45079 : 21st of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4

06412 00000 00000 03545 38380 34786 00893 03713

Link 45114 / 45115

**15623/13469/11569 kHz, 12-11/13-11, 0900/0910/0920 UTC**

Block No 0 : Total Message Size 28 blocks : This transmission contains one message.

Block No 1 : Link ID 45115 : 11th of month : Msg Number 107 : Msg Type 07145 : Group Count (?) 182

35620 64675 27838 27061 06443 33534 35415 14762

Link ID 45115, Date 11th, Serial #43, Groups 167

1be9 b03b 8b24 6e6b b6f5

6cbe fca3 ab72 cd8d db8e eda1 5e4c adbb 2da5 2b1e

4e1b ccc3 ac78 7e68 13da 7425 c2c2 687a d23c a9c2

970e 582e bdc7 ac26 fd9f 7332 d844 733a 8961 a550

9ba8 33df 0655 4bc1 8886 1e17 3925 2fee 8961 7c2b

2a7f 3e62 b66c 64d1 82f0 383f b76d d8a8 1dd6 b989

db43 b36f 7228 786b 74ac 6934 6f55 1de7 3aa0 d0ab

0af9 c908 ab41 184e da51 1ef9 7c82 d288 5a86 28ce

2736 f591 e094 13ab 898b a247 cc35 f74f 01e4 809f

e92a 242b 2b6f 89ee fdc5 f596 2cdd 312b 8cc8 6902

95da f14f e5f2 612c e6b1 95fc d15c de36 00fc c4f4

30b7 6e8c b8f1 6ecd 6231 e873 6a88 bb2e ad7e 8210

1239 c751 2475 8fa4 b17e 37ba ee12 4e7f 82e1 fb12

0ca4 801f d7b5 69d4 7697 7166 2146 e9a3 2707 1c49

b197 16cb 5072 c171 9617 18c0 1bce 300a 7273 afbd

5f2b 2219 734e ef65 3b78 bdd4 5b6f 7930 5aa8 cfa8

9190 23a3 dd66 a481 5e03 9a81 23b4 ad46 2368 15cc

21c5 be3d 9215 5b20 86eb e87c b400

**15623/13469/11569 kHz, 26-11/27-11, 0900/0910/0920 UTC**

Block No 0 : Total Message Size 27 blocks : This transmission contains one message.

7d,12,b0,e6,00,00,00,00,30,00,40,00,10,00,00,00,00,05,20,03,00,0b,00,00,f0,07,30,0c,b0,09,20,0e,50,03,40,06

Block No 1 : Link ID 45114 : 25th of month : Msg Number 110 : Msg Type 07145 : Group Count (?) 174

22452 49315 41174 24907 56490 03828 47386 54191

Link ID 45114, Date 25th, Serial #44, Groups 160  
1be9 b03a 57b4 fa6e aee8  
a0d6 c0a3 ab72 ccc0 f3bf 79a1 5e4c 8e5d edb9 2b1e  
4e1b 0aa8 d454 f6ef 53fe f3e4 92a7 71bd 34fd f20c  
6e6e c0da 5471 2517 0f05 9678 43f7 8faf 6bd7 9a61  
4ffb 9f73 c58b b7a6 35ea 06b8 f4e0 e2a8 68c3 b555  
2c03 0630 6e6c 4e28 c58b 15e4 32eb e5c6 c67e 4067  
41b6 5cef cc1c da72 a640 5d9b 1b27 7242 2e7d 8565  
35f0 61ca 1530 8c0f fbd0 804b cec5 342a 130f 49a0  
b014 fab5 330c 73fe 0290 66d1 8999 723f 4dc9 5e63  
bbb0 7485 13d4 e002 1634 2de6 f0e7 3aec 8d38 5b67  
f274 c79e 6533 bd2c 6d7e 7e26 5ec6 7dd3 71a8 1eb5  
8172 a408 72ac 3c36 8d79 41a8 83c4 2576 69af da02  
8875 c5a2 4649 8192 362c f5f9 70e6 812a 46c0 97d1  
1323 a5fe 7e1e 96ea 3ea1 553d 737e b268 7f74 c965  
14f5 cd0e e22f 64b8 d795 056e 2e83 1c1b 57de 0684  
c77a 28b9 6a19 237a bd3e ffdd 13b4 fdaf d662 a9df  
0714 0855 0485 8a09 0444 74d9 6f6d c7c9 6684 c800

Link 49202

**20996/19163/17428 kHz, 02-11, 1000/1010/1020 UTC**

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.

Block No 1 : Link ID 49202 : 2nd of month : Msg Number 110 : Msg Type 07145 : Group Count (?) 4  
22796 00000 00000 01644 28271 01833 00893 64675

**20996/19163/17428 kHz, 09-11, 1000/1010/1020 UTC**

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.

Block No 1 : Link ID 49202 : 9th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4  
53100 00000 00000 01615 31827 36006 00893 29273

**20996/19163/17428 kHz, 16-11, 1000/1010/1020 UTC**

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.

Block No 1 : Link ID 49202 : 16th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4  
50628 00000 00000 03982 34046 34170 00893 11137

**20996/19163/17428 kHz, 23-11, 1000/1010/1020 UTC**

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.

7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08  
Block No 1 : Link ID 49202 : 23rd of month : Msg Number 110 : Msg Type 07145 : Group Count (?) 4  
29932 00000 00000 02571 44300 02343 00893 32457

**20996/19163/17428 kHz, 30-11, 1000/1010/1020 UTC**

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.

7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08  
Block No 1 : Link ID 49202 : 30th of month : Msg Number 110 : Msg Type 07145 : Group Count (?) 4  
35269 00000 00000 00463 34046 02988 00893 24175

Link 49237

**13384/11428/10376 kHz, 03-11, 1330/1340/1350 UTC**

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.

Block No 1 : Link ID 49237 : 3rd of month : Msg Number 245 : Msg Type 07145 : Group Count (?) 4  
43856 00000 00000 02875 58545 00372 00893 38364

**13384/11428/10376 kHz, 10-11, 1330/1340/1350 UTC**

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.

Block No 1 : Link ID 49237 : 10th of month : Msg Number 137 : Msg Type 07145 : Group Count (?) 4

65292 00000 00000 03880 39258 36810 00893 34033

**13384/11428/10376 kHz, 17-11, 1330/1340/1350 UTC**

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.

7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08

Block No 1 : Link ID 49237 : 17th of month : Msg Number 140 : Msg Type 07145 : Group Count (?) 4

00924 00000 00000 02800 64414 00205 00893 17571

**13384/11428/10376 kHz, 24-11, 1330/1340/1350 UTC**

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.

7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08

Block No 1 : Link ID 49237 : 24th of month : Msg Number 017 : Msg Type 07145 : Group Count (?) 4

23888 00000 00000 03804 54891 34004 00893 20335

Link 53277

**18191/15963/13436 kHz, 02-11, 1230/1240/1250 UTC**

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.

Block No 1 : Link ID 53277 : 2nd of month : Msg Number 162 : Msg Type 07145 : Group Count (?) 4

51652 00000 00000 00044 22771 32992 00893 47950

**18191/15963/13436 kHz, 16-11, 1230/1240/1250 UTC**

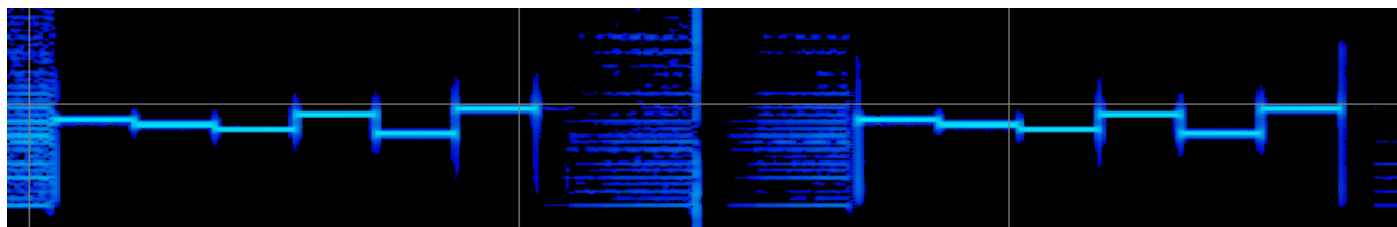
Block No 0 : Total Message Size 4 blocks : This transmission contains one message.

Block No 1 : Link ID 53277 : 16th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4

39180 00000 00000 02578 15966 35589 00893 10743

X06 - Mazielka

Freq	Date	UTC	Day	Sequence
16115	2-11	1148	Wed	Mazielka
14970	8-11	1100	Tue	Mazielka. Sequence: 216354
11411	10-11	1425	Thu	Mazielka. Sequence: 164532
14377	21-11	0842	Mon	Mazielka i.p. Sequence: 432516
16317	22-11	1004	Tue	Mazielka. Sequence: 612534
17470	22-11	1012	Tue	Mazielka. Sequence: 216354
16238	15-11	1154	Tue	Mazielka. Sequence: 1--6-- before XPA2
18238	15-11	1155	Tue	Mazielka. Sequence: 1--6-- before XPA2
16238	15-11	1157	Tue	Mazielka. Sequence: 1--6-- before XPA2
18238	15-11	1158	Tue	Mazielka. Sequence: 1--6-- before XPA2





XPA

Mode: MFSK-20/10Bd

**11409/13509/14609 kHz, 02-11, 0700/0620/0740 UTC**

456 456 456 1 456 456 456 1 456 456 456 1  
09651 00197 68782 57894 35334 44674 87490 87999 57198 33781  
93075 83689 67149 04452 08118 31537 66422 87540 02610 28704  
89813 19544 76985 82833 54712 86918 19447 10048 43262 36921  
45544 54760 66943 43722 80868 74804 91496 77831 02934 67236  
85246 64932 14302 57918 13483 05702 23016 19894 75830 04925  
36270 44790 28875 34116 81042 15484 31410 06289 68609 88104  
45827 68065 00675 19373 39907 82971 47220 41577 30173 86543  
84318 38495 25797 49101 95322 78866 76019 85847 57391 95814  
84064 00821 48799 89196 97141 74233 45948 75107 46037 44738  
87326 25600 95167 00405 13120 64279 29734 31515 69577 35976  
87767 81707 41482 96524 79763 13765 65507 99445 62240 34330  
84570 41626 03937 86814 43716 79768 37562 96863 18105 30561  
93659 65130 92186 83230 51971 67714 21026 94385 24641 01486  
82249 84215 28353 35935 68645 07010 11570 40270 67224 50438  
19058 46936 38468 79863 47565 88396 77098 13840 28661 62645  
89780 74124 67730 35150 68651 53788 22698 63512 63641 05190  
18507 29648 83752 29480 23487 75481 53625 08308 56467 30544  
21620 14809 66219 24215 45469 24646 79660 35200 23122 36331  
42772 26425 91279 68730 28431 59162 45682 44511 71378 17496  
17119 35118 81836 55807 04796 53833 23725 57570 89170 75217

**11409/13509/14609 kHz, 05-11, 0700/0620/0740 UTC**

456 456 456 000  
07414 00001 00000 10140

**11409/13509/14609 kHz, 09-11/12-11, 0700/0620/0740 UTC**

456 456 456 1 456 456 456 1 456 456 456 1  
08530 00221 25771 72554 92409 48540 25642 16846 58993 88672  
49910 02071 17883 11229 27741 16642 50330 28084 46502 70603  
20890 18251 92626 09636 60287 46777 90917 72966 98325 62426  
46085 32598 35853 56930 48872 09507 88426 11566 98360 18696  
29275 61883 22261 02615 59341 05783 68588 53893 98272 53317  
33020 39245 28904 23948 69334 78853 86368 18016 73797 21462  
17672 07447 19559 78379 54112 21710 65034 21639 50427 95260  
48945 90036 12397 81443 98323 70199 66767 39740 65175 19204  
54868 09120 89382 43555 08976 31892 83738 12692 05069 09050  
13491 85748 61119 07168 47764 82885 09673 47186 15466 23191  
07436 56681 28101 26300 34962 61265 40513 96901 49309 86566  
87960 13869 60403 35045 27970 18766 23674 02877 71703 95380  
99652 45694 11018 26123 37896 75737 21905 15892 41156 55386  
38354 59106 20367 40122 35969 13395 03138 80113 37164 57317  
68091 25594 71304 64613 70397 25051 76367 34580 55140 03128  
57344 39625 84337 48041 73432 06274 34041 83607 03358 42052  
08741 26641 50925 64881 17184 08153 84540 36011 14084 65161  
26865 27268 64793 25882 10667 21347 43264 99871 02176 51955  
21548 57406 04019 91027 27821 53760 30638 06186 48963 60501  
85192 25025 23947 90159 46880 86741 19605 19182 15754 50689  
92629 46577 87222 81547 57934 29320 14108 89826 43767 69577  
59876 63042 55533 47141 31013 08627 96248 77099 82736 31048  
44674 30141 23995 75510

**11409/13509/14609 kHz, 16-11, 0700/0620/0740 UTC**

456 456 456 000 04197 00001 00000 10140

**11409/13509/14609 kHz, 19-11, 0700/0620/0740 UTC**

456 456 456 000

03951 00001 00000 10140

**11409/13509/14609 kHz, 23-11/26-11, 0700/0620/0740 UTC**

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

07729 00171 48217 55075 86814 01886 28446 53361 73108 67621  
86103 34345 57236 89030 96531 06020 16301 20936 10854 94312  
61366 62152 38290 84076 58226 33185 59934 75072 92459 05656  
25188 24636 37540 17309 10576 67294 39208 26478 28273 18216  
78074 90395 97368 92829 10159 88713 91684 18699 24246 59680  
87004 65078 50821 74226 98984 96894 30995 43093 96631 27145  
75846 34070 67335 78198 53090 22555 57979 54747 12759 60147  
06518 45288 76296 62815 13946 88898 81796 52639 12246 78878  
12884 86490 54098 34720 00480 43436 03935 30747 59949 95034  
44822 80014 84454 02019 80715 54011 11390 19935 01527 82147  
28282 87952 50713 41587 15721 81627 34116 09938 19352 62681  
34850 02772 04262 07983 78883 72619 05976 65486 14926 30791  
46171 22921 42673 42708 77381 50076 61553 48808 96281 07835  
72105 66685 15414 79729 46189 64855 62147 77288 62793 93417  
66586 47974 52031 92330 12337 95930 87943 06408 16599 90373  
20550 37834 59217 80096 41290 88078 09173 93355 89319 20575  
41122 52581 81551 38697 27502 69254 32032 61048 98990 35543  
68398 31457 81798 10077

**11409/13509/14609 kHz, 30-11/26-11, 0700/0620/0740 UTC**

456 456 456 000 08094 00001 00000 10140

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**XPA2**

Mode: MFSK-16/20Bd

**14517/16017/17417 kHz, 01-11/04-11, 0700/0720/0740 UTC**

03914 00153 13524 14659 54203 74837 06516 57249 05526 03664  
52723 79892 81429 12829 27292 26014 85449 73691 43365 41365  
59594 60621 00547 47358 84882 70323 30943 70182 87426 31309  
98629 36790 71261 18750 94310 51546 29790 75290 19654 22782  
99509 22157 42976 44700 65960 02184 14302 52091 24939 56837  
63896 21662 75043 44680 57991 14983 22065 90513 44749 11563  
58755 78764 78186 90680 68613 07962 59229 91538 29186 89460  
88613 18765 72221 77364 08885 65524 83821 28211 52019 90005  
03782 43490 27777 16338 94975 32783 03305 99200 99985 53114  
76594 84775 44685 95098 29529 63933 49335 30518 33938 33840  
34009 57597 39987 71652 53607 51778 58893 15372 64002 50946  
59085 25233 87736 85280 75375 59294 33662 40028 59342 89044  
88791 57578 10604 05718 46512 65982 03004 81175 12948 42819  
03058 60276 33615 99222 07853 02003 84659 04914 18561 95500  
30865 98483 99263 80546 90176 13419 49775 95693 81878 90944  
22096 73721 87288 23381 13678 00725



**18238/16238/14438 kHz, 01-11, 1300/1320/1340 UTC**

01385 00095 05433 95335 63250 38324 30330 22193 35454 79345  
65622 28111 39799 05103 65934 18555 95132 37844 73437 98686  
47264 74083 37244 28337 59648 80865 04759 92664 11752 57437  
19938 20885 51550 88058 03615 05673 52637 46929 96906 76909  
49333 55060 96987 89917 47219 37491 80880 26148 10152 47007  
84580 96733 61429 52846 12208 40962 19765 14790 93380 98843  
43674 49239 11130 80695 96145 58553 97130 58152 82923 40977  
31188 77461 00890 41488 32623 00234 34624 09252 01972 75723  
67949 62517 60277 46728 98867 65895 86669 36069 54023 04873  
89887 44540 93167 94373 10149 53942 37915 83711

**16073/14973/14373 kHz, 02-11, 0800/0820/0840 UTC**

07886 00001 00000 10140

**17462/16114/14828 kHz, 04-11/05-11, 1400/1420/1440 UTC**

00188 00083 15464 08068 74008 59258 84423 61194 59737 19096  
56901 24821 30636 44933 09297 98215 68695 56735 11524 23485  
20639 35113 48843 53227 75125 35732 19351 79675 83936 55956  
09011 19032 08688 80517 61282 64611 11570 54002 57919 30236  
17425 06834 75057 56656 84110 56429 15443 77240 70047 34114  
14727 63001 47326 58499 37026 12777 49948 25844 72524 22253  
00484 22007 76690 51732 31448 83327 09000 44781 93377 60833  
10946 66709 33049 47766 42051 82077 81646 69788 05555 42071  
29488 02873 62637 08118 64854 37166

**18238/16238/14438 kHz, 06-11, 1300/1320/1340 UTC**

09433 00001 00000 10140

**16073/14973/14373 kHz, 07-11, 0800/0820/0840 UTC**

02654 00001 00000 10140

**18238/16238/14438 kHz, 08-11, 1300/1320/1340 UTC**

04871 00001 00000 10140

**16073/14973/14373 kHz, 09-11, 0800/0820/0840 UTC**

05545 00001 00000 10140

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

09937 00001 00000 10140

**17462/16114/14828 kHz, 11-11/12-11, 1400/1420/1440 UTC**

04667 00083 36909 11158 70166 42755 72706 71635 51939 36008  
32125 02968 66429 00808 60882 31275 53657 06579 92067 75658  
41191 82274 66536 93111 66310 35543 30896 44675 10600 63699  
31346 21610 97515 34385 16493 03205 56065 92536 33781 62651  
68633 34887 56620 99508 75582 41407 30987 44689 31901 60650  
81486 82455 09022 67907 26727 86820 98740 14513 63177 65909  
30181 31881 61974 36746 61989 06313 90242 01130 11333 45260  
55094 62368 13136 11344 93707 07040 48820 18627 71661 90055  
32513 07086 82261 48122 66684 34450

**18238/16238/14438 kHz, 13-11, 1300/1320/1340 UTC**

06734 00001 00000 10140

**16073/14973/14373 kHz, 14-11, 0800/0820/0840 UTC**

07947 00001 00000 10140

**14517/16017/17417 kHz, 15-11, 0700/0720/0740 UTC**  
05365 00001 00000 10140

**18238/16238/14438 kHz, 15-11, 1300/1320/1340 UTC**  
04261 00001 00000 10140

**16073/14973/14373 kHz, 16-11, 0800/0820/0840 UTC**  
02541 00001 00000 10140

**14517/16017/17417 kHz, 18-11, 0700/0720/0740 UTC**  
07854 00001 00000 10140

**17462/16114/14828 kHz, 18-11, 1400/1420/1440 UTC**  
03359 00001 00000 10140

**17462/16114/14828 kHz, 19-11, 1400/1420/1440 UTC**  
05403 00079 24142 65809 99416 93184 75274 35126 22668 67750  
04893 16873 52846 68862 72210 79993 97812 89104 12284 71075  
74759 72700 80221 68374 94196 72872 20805 80503 59101 74778  
90128 87256 63542 95391 40856 65911 44358 21161 86743 91199  
07571 22219 75203 15670 64211 91588 75713 46136 48527 85701  
86663 51344 56163 87564 43587 93441 38183 00554 17169 19273  
06620 77951 90823 12040 32794 94813 58075 95802 32024 32336  
09022 59775 41106 20116 50284 29491 79554 49222 68848 97311  
66568 36615

**18238/16238/14438 kHz, 20-11/21-11, 1300/1320/1340 UTC**  
05918 00053 25042 31771 34008 03381 75660 34241 45856 42232  
18898 52937 47870 16330 96056 43157 37533 25827 75623 43003  
70698 77565 29768 65426 27730 53416 15571 41062 24553 12978  
12923 53428 28685 98794 06696 96469 66705 88449 12207 28302  
83690 63603 50408 06049 19699 26353 41899 65735 59899 36459  
58741 94961 22217 65273 91910 62477

**16073/14973/14373 kHz, 21-11/23-11, 0800/0820/0840 UTC**  
02975 00223 92639 09016 85634 24271 24576 10996 06881 20955  
13173 72894 53530 01879 83697 16546 12793 73239 56145 06080  
51736 60338 20211 41157 58370 08034 22207 23599 31882 62888  
61762 95180 56102 24361 04734 87866 12600 01994 18949 07129  
97817 62168 95253 81203 31585 87866 74249 42676 51387 35529  
94373 67870 38762 63086 36773 37951 50622 74872 83431 86796  
46098 25386 20782 69604 36058 52717 94462 77701 82205 90037  
70855 99553 33144 30966 74704 16064 53619 85561 30927 31264  
94448 55409 70772 13940 92563 16997 52542 39280 74166 97774  
31837 16211 10490 61188 41125 22668 51944 30440 17023 19860  
67975 00873 14838 75953 98842 17844 81844 90371 69974 23913  
87494 59105 71280 91205 50735 53139 77836 76114 35845 52961  
58157 28214 59156 62271 52990 52152 96335 97236 23220 18861  
96424 19449 42064 24656 67944 57726 24206 03790 05468 49044  
86588 67199 71409 98273 03657 37227 48438 44849 22464 94752  
43275 46715 77556 88275 11563 74853 88081 28682 49767 68741  
41576 69197 29760 24476 41237 92871 41884 27132 17315 08237  
98901 30433 37859 20510 96546 50749 34686 88180 22208 94867  
73707 76165 22724 16786 96347 51773 32883 77499 93610 27142  
29781 48404 10659 79778 78402 74448 53656 26736 41378 55730  
88282 93018 76467 40476 86160 52722 05965 85614 17395 41875  
18861 55629 62839 90986 84122 87501 57496 75994 61194 17594  
41351 40988 95409 16813 98318 70302

**14517/16017/17417 kHz, 22-11/25-11, 0700/0720/0740 UTC**

08136 00203 65406 43818 68448 81837 30950 47406 87478 87192  
68862 64193 77061 76756 62914 04656 77875 20721 47735 76383  
40516 32525 52743 99978 42458 98018 55548 44186 47512 25198  
86902 69872 11285 42572 71925 10897 42615 85365 33444 32680  
61575 13241 64376 09648 26272 98442 44359 33208 17876 06661  
93598 91202 78522 46747 44996 32484 97249 46410 82552 52000  
44075 49914 19294 92764 67725 44114 50589 07534 44781 64730  
95142 59188 57855 30267 34656 02346 77132 49660 44014 25538  
66733 11566 22837 53754 44922 72055 00550 61692 61649 96603  
09837 97418 77881 47102 60336 34584 15735 86719 79280 16462  
00468 31144 72973 85078 00527 85807 33620 73359 59103 22664  
77178 15962 37854 37169 81629 47577 66684 96475 55608 46979  
21521 26597 09850 06689 92801 68823 29650 94829 71988 75261  
64918 11842 57049 76209 06900 70608 62576 21674 80898 83916  
71298 34814 20377 58035 48929 36902 11689 89816 52961 85205  
91050 35175 72872 00308 43415 43432 48560 01377 52569 81580  
79548 19744 58078 38367 15507 30694 76238 24916 19424 45326  
86675 69433 20678 68124 78986 47454 82424 45339 07269 70235  
67893 66346 33447 85581 88214 07929 81438 40743 13199 31706  
70918 14315 35696 12352 73200 36201 84323 62735 83554 79845  
67019 23564 38419 52646 80252 13611

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

05914 00001 00000 10140

**17462/16114/14828 kHz, 26-11, 1400/1420/1440 UTC**

02442 00001 00000 10140

**18238/16238/14438 kHz, 27-11, 1300/1320/1340 UTC**

06933 00001 00000 10140

**16073/14973/14373 kHz, 28-11, 0800/0820/0840 UTC**

05725 00001 00000 10140

**14517/16017/17417 kHz, 29-11, 0700/0720/0740 UTC**

04806 00143 32194 21101 18987 89451 63665 92328 97002 21917  
74559 76110 35142 19273 94080 04909 74256 45554 20619 69429  
43688 37374 64070 16834 68486 74083 53422 73036 68754 27340  
11919 10015 20146 16999 26638 09196 79499 60183 36622 97716  
19529 38982 06347 73975 41174 84177 20557 08212 81559 38689  
87444 93032 34062 32609 55312 72183 07182 72223 00078 58632  
70175 00447 48839 82586 78093 44868 88738 68012 74169 85119  
08027 39221 77101 89979 02594 14632 80435 16734 77634 67224  
36100 85228 56075 52226 02226 73218 70022 83781 98874 49952  
15928 11558 83993 20973 69541 14009 27076 49433 13904 17486  
54693 49622 24809 44377 24278 16213 17184 24710 79168 90934  
25826 40402 09642 82096 03754 19314 15581 61325 65868 80783  
36864 93025 14059 62538 02580 67997 83855 94043 73490 14950  
87091 20549 43529 28218 62655 29126 26683 57278 68590 14942  
56449 43552 74791 25760 01467 13663

**18238/16238/14438 kHz, 29-11, 1300/1320/1340 UTC**

07425 00001 00000 10140

**16073/14973/14373 kHz, 30-11, 0800/0820/0840 UTC**

01171 00001 00000 10140



**F11**

Mode: FSK 100/625

**17531 kHz, 01-11/02-11, 1245/1250 UTC**

0132 0132 0132 0132 0132

88888 88888 12922 55156 69300 87811 46877 22042 20385 49697  
38775 42094 95708 41338 75529 04613 90025 20714 61791 84037  
88235 69395 62870 68818 98148 62825 50579 69021 91010 72683  
90995 53116 79103 21263 88888 88888  
00036 00036

**5831 kHz, 02-11/03-11, 0300/0305 UTC**

0231 0231 0231 0231 0231

88888 88888 95645 21904 99942 39645 29541 66367 40180 97903  
71909 92430 37533 22195 03230 54836 73155 23426 52075 63695  
77002 98563 67125 96254 09478 90592 53659 47127 20827 60033  
08062 06939 71979 37936 88888 88888  
00036 00036

**9370 kHz, 07-11/09-11, 0845/0850 UTC**

0353 0353 0353 0353 0353

88888 88888 88001 67168 39173 06672 11145 44965 65115 36876  
47474 12401 81004 84451 33983 41437 95737 40923 88000 17382  
43223 83357 93097 24026 33072 57805 94463 47705 04118 97128  
70240 53144 23967 98598 10727 56948 34293 57031 18196 88888  
88888  
00041 00041

**7499 kHz, 08-11/11-11, 0900/0905 UTC**

0554 0554 0554 0554 0554

88888 88888 76820 49380 63014 36983 84126 50995 59755 48875  
67849 15900 03421 65808 46449 89048 68458 52528 37556 49885  
09177 57766 79973 09638 49790 52349 14664 39290 12542 47747  
40277 58928 17892 88888 88888  
00035 00035

**7772 kHz, 08-11/10-11, 0630/0635 UTC**

0574 0574 0574 0574 0574

88888 88888 48650 36090 03257 29995 79472 53826 06047 38616  
63054 94333 74546 31678 44578 96482 27590 78853 19097 83414  
16141 97450 88097 70844 53253 10354 88599 84053 31882 10839  
88366 25838 94571 83043 80785 20369 99061 12945 54264 52388  
98298 54924 88888 88888  
00044 00044

**16388 kHz, 10-11, 0730/0735 UTC**

0433 0433 0433 0433 0433

88888 88888 68180 41624 43980 50048 87501 40239 56982 31436  
57331 33835 18911 22591 80520 65206 36122 08906 97839 52190  
80059 96582 96685 91348 46470 11121 07369 39113 72363 96211  
41944 26893 17929 88888 88888  
00035 00035

**6940 kHz, 21-11/24-11, 0515/0520 UTC**

0446 0446 0446 0446 0446

88888 88888 99306 91276 29030 07103 95653 05500 44683 67477

18468 00461 63059 60491 42261 22733 89835 72319 93174 54421

60490 24689 81074 30928 57915 41047 80345 89737 11405 48287

16164 02416 48005 01087 61622 71456 62873 14002 99261 88888

88888

00041 00041

**6836 kHz, 21-11/24-11, 0800/0805 kHz**

0434 0434 0434 04334 0434

88888 88888 04852 33305 87030 42777 16222 69940 72239 07898

67978 47648 97025 26964 97702 20224 71493 21774 18260 41798

44453 84267 02726 80035 42139 55396 36816 58381 66768 31356

63446 37556 96993 55618 88888 88888 00036 00036

**7863 kHz, 29-11/30-11, 1150/1155 UTC**

0325 0325 0325 0325 0325

88888 88888 09841 80231 60879 98920 83525 59909 65524 19281

36715 40571 27267 30860 36138 00661 10836 79719 94526 51535

23285 58112 70779 38718 66269 04665 37048 78558 47365 67102

93061 67048 54212 30989 88888 88888

00036 00036



*XSL a.k.a. Slot Machine*  
*Japan Maritime Self-Defense Force*  
*海上自衛隊 Kaijō Jieitai*

Mode: QPSK 1500Bd

Copied on 10-11, 0618 UTC on 6250, 6417, 6445, 8313 kHz

Copied on 10-11, 1155 UTC on 4153, 4231.5, 4291, 6250, 6417, 6445, 8313, 8508, 8703.5 kHz

Copied on 23-11, 1304 UTC on 4153, 4231.5, 4291, 6250, 6417, 6445, 8313, 8508, 8703.5 kHz



*North Korean diplomatic stations*

14147 kHz, 05-11, 1332 UTC North Korean Diplo, DPRK-ARQ 600/600 LSB

12550 kHz, 09-11, 1015 UTC North Korean diplo, DPRK ARQ 1200/1200 LSB

14530 kHz, 21-11, 1253 UTC Unid North Korean Embassy, Europe, DPRK-ARQ 1200/1200 LSB

20888 kHz, 21-11, 1430 UTC Unid North Korean Embassy, North or West Africa, DPRK-ARQ 1200/1200 LSB



## Egyptian diplomatic stations

Modes: SITOR-A 100/170 & Codan-9001

11406.7 kHz, 01-11, 2119 UTC, SITOR-B 100/170	Egyptian embassy Washington tfc to Cairo
10223.7 kHz, 01-11, 2120 UTC, SITOR-B 100/170	Egyptian embassy Washington tfc to Cairo (QSY from 11406.7 kHz)
19101.7 kHz, 21-11, 1319 UTC, SITOR-A 100/160	Egyptian Embassy, Accra sends ATU-80 telex headed ?jg: kw??fk? to MFA Cairo
18417 kHz, 21-11, 1352 UTC, Codan Chirp 80Bd	MFA Cairo (99905) and Egyptian Embassy Djibouti (33318) unable to connect successfully
14620 kHz, 23-11, 1547 UTC, Codan Chirp 80Bd	MFA, Cairo (99910) calls 11108: Egyptian Embassy, Madrid
19126.7 kHz, 24-11, 1604 UTC, SITOR-A 100/170	tfc between MFA Cairo and Embassy Conakry selcall: KKVD

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## UTILITY ROUND-UP



### Pirates

Logged by a number of people, possibly Brazilian pirates:  
 6918.5 kHz, CW: LIXO (meaning "garbage" in English)  
 6917.9 kHz, CW: ESTE É ESGOTO (meaning "this is sewage" in English)

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## Intelligence news

*Eavesdropping on Hell*: Historical Guide to Western Communications Intelligence and the Holocaust, 1939-1945.  
<https://www.nsa.gov/about/cryptologic-heritage/historical-figures-publications/publications/wwii/assets/files/eavesdropping.pdf>

More interesting documents can be found on the NSA website:  
<https://www.nsa.gov/about/cryptologic-heritage/historical-figures-publications/publications/>

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## RUSSIAN MILITARY TRANSCRIPTS

Excerpts from logs submitted by Wolfgang, Jay, Ary, JPL



### *RMv/RNv/RNAv/RAv* *Russian military stations*

Frequency: various Mode: USB / voice

RAv – Russian Air Force

18030 kHz, 15-11, 1255 UTC Korsar wkg Uprava, Davlenie, Kazachok, Katolik, Kasten, and other stations  
8131 kHz, 17-11, 0740 UTC Russian Air Force Tu-95MS Bear H voice net



### *M32* *Russian / CIS Military CW Stations*

14411 kHz, 09-11, 1218 UTC	XXX XXX RFH73 RFH73 43870 14960 ATAMAN 8245 7933
10933 kHz, 17-11, 1037 UTC	RGT77: XXX XXX WEGI WEGI 89670 UPUQENIE 3020 2798
14411 kHz, 17-11, 1043 UTC	RDL: XXX XXX WEGI WEGI 81454 89670 UPUQENIE 3020 2798
14411 kHz, 17-11, 1122 UTC	RDL: XXX XXX WEGI WEGI 36559 76470 SEKRETARX 9422 4919



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

#### **12464 kHz, 05-11, 0602 UTC (RMCW: Russian Navy Ship Donuzlav)**

RCV DE RMCW QYS8  
08692 672392 ZAHAROW 1400  
08692 230745 WOROCHLOW 1405  
08692 426406 UWAROW 1410  
08692 657934 TULXPA 1415  
08692 450006 GLUHOW 1420 K  
RMCW C K 5-Nov-16 (wp3)

#### **12464 kHz, 05-11, 0609 UTC (RMCW: Russian Navy Ship Donuzlav)**

RCV DE RMCW 426 19 5 0907 426 =  
SML FOR RJE73 RJH45 RJH48 =  
05061 99146 10416 42998 11410 10280 40154 52013 80002 22211 00276 20403 88000 80000 05014 =  
RMCW K

#### **8345 kHz, 05-11, 0614 UTC (RCJG: Russian Navy AO Ivan Bubnov)**

RCV DE RCJG 375 20 5 0903 375 =  
SML FOR RJH45 RJE73 =  
05061 99419 10293 42497 70303 10143 40229 57013 85530 22243 00160 20201 310// 40401 88000 80000 05016 =  
+ RCJG K

**12464 kHz, 05-11, 0618 UTC (RMCW: Russian Navy Ship Donuzlav)**

RCV DE RMCW 825 41 5 0915 825 =

FOR RJS RCV =

11111 52457 .....

**8345 kHz, 05-11, 0621 UTC**

RMP DE RHM81 OK QYT4 QSX 4153 K - QYT4 QSX 5242 K

**12464 kHz, 05-11, 0624 UTC (RMJA: Russian Navy KIL-158)**

RMJA 803 19 5 0917 803 =

SML FOR RJH45 RJE73 =

05061 99370 10267 41598 40803 10181 40184 54000 70222 84300 22232 00192 20101 88000 80000 05015 =

+ RMJA K

**6199 kHz, 18-11, 2206 UTC, i.p.**

40010 00005 00612 40014 00006 00612 50014 00102 00612 30010 =

RLO RLO RLO DE RIT RIT QTC 162 35 19 0058 162 =

RADIO PROGNOZ 1916 03003 31512 ...

**8816 kHz, 19-11, 0711 UTC**

RJF94 RJC38 DE 42233 QQL ULWC 0707 QBD 7800 K

QQM XLMV 0839 SK

**7788 kHz, 21-11, 1028-1036 UTC, i.p.**

R K

XB4F (x3) DE TG1W (x2) K

4TVM (x3) DE TG1W (x2) K

D2MD (x3) DE TG1W (x2) QTC K

D2MD (x3) DE TG1W (x2) QTC 556 44 21 1306 556 = 233 = MMMMM GZL. RZC\UT KCDOO (Cont'd)

**9115 kHz, 25-11, 0604 UTC (RIR98 is navy ship PM-56)**

RCV DE RIR98

129 19 26 0900 129 = SML FOR RJE73 RJH45 =

26061 99358 10348 41498 10703 20200 40200 54000 70200 81100 22200 00186 20000 88000 80000 26015 =

+ RIR98 K

**12464 kHz, 26-11, 0604 UTC (RMCW is navy ship Donuzlav)**

RCV DE RMCW 400 19 26 0901 400 = SML FOR RJE73 RJH45 RJH48 =

26061 99123 10441 42698 40709 10266 40130 52019 82280 22200 00272 20403 88000 80000 26014 =

+ RMCW K

**12464 kHz, 26-11, 0608 UTC (RCJE is a navy tug)**

RCV DE RCJE 276 18 26 0905 276 = SML FOR RJH45 RJE73 =

26061 99353 10352 43698 00807 10200 40190 54010 70200 22232 00180 20202 30000 88000 26014 =

+ RCJE K

**9115 kHz, 26-11, 0612 UTC**

RCV DE RIR98 873 3 26 0910 873 = 05952 60405 26002 = + RIR98 K

**12464 kHz, 26-11, 0632 UTC (repeated by RCV on 15586 kHz)**

RCV DE RMCW QYS8

08692 411123 VETLITSKAYA 1330

08692 486455 SIMON 1335

08692 558651 GONCHAROV 1340

08692 536596 ZELENYY 1345

08692 482473 SHULEV 1350

08692 457169 KHIMCHAK 1355

08692 672392 ZAKHAROV 1400

08692 425477 MAKLAKOV 1405

08692 230745 VOROSHILOV 1410

08692 922233 MOLODOV 1415 K





**M32c**  
**Russian Air Force**  
**Voyenno-vozdushnye sily Rossii**

**8112 kHz, 17-11, 0720, 0820, 0840 UTC**

W-markers: Russian Air Force Tu-95MS Bear H net

## **LOGS SECTION**

Code	Freq	Date	UTC	Day	Details	Mode	Ctrlb
DPRK	14147	5-11	1332	Sat	North Korean Diplo	DPRK-ARQ 600/600 LSB	(Stock)
DPRK	12550	9-11	1015	Wed	North Korean diplo	DPRK ARQ 1200/1200 LSB	(AAI)
DPRK	14530	21-11	1253	Mon	Unid North Korean Embassy, Europe	DPRK-ARQ 1200/1200 LSB	(MCO)
DPRK	20888	21-11	1430	Mon	Unid North Korean Embassy, North or West Africa	DPRK-ARQ 1200/1200 LSB	(MCO)
E06	18285	3-11	0600	Thu	507 396 124 95783 07499 18578 ... 45068 48625 19736 396 124 00000	USB	(AB-RUS/ ES-AUT)
E06	20140	3-11	0700	Thu	507 396 124 95783 07499 18578 ... 45068 48625 19736 396 124 00000	USB	(ES-AUT)
E06	4836	3-11	2030	Thu	321 149/52 12265	USB	(HFD)
E06	4836	3-11	2030	Thu	321 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000 Windows shutdown tune	USB	(AB)
E06	4760	4-11	2130	Fri	472 472 472 00000	USB	(Sha/HFD)
E06	18285	17-11	0600	Thu	507 396 124 95783 07499 18578 ... 45068 48625 19736 396 124 00000	USB	(AB-RUS)
E06	20140	17-11	0700	Thu	507 396 124 95783 07499 18578 ... 45068 48625 19736 396 124 00000	USB	(AB-RUS)
E06	4836	17-11	2030	Thu	321 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000 Windows shutdown tune	USB	(AB/MPJ)
E06	18285	18-11	0600	Fri	507 396 124 95783 07499 18578 ... 45068 48625 19736 396 124 00000	USB	(AB-RUS)
E06	20140	18-11	0700	Fri	507 396 124 95783 07499 18578 ... 45068 48625 19736 396 124 00000	USB	(AB-RUS)
E06	4760	18-11	2130	Fri	472 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000 Windows XT shutdown sound	USB	(AB)
E07	14884	1-11	1100	Tue	835 1 650 75 81011 03965 ..... 39424 93231 000 000	USB	(ES)
E07	13384	1-11	1120	Tue	835 1 650 75 81011 03965 ..... 39424 93231 000 000	USB	(ES)
E07	11584	1-11	1140	Tue	835 1 650 75 81011 03965 ..... 39424 93231 000 000	USB	(ES)
E07	8153	2-11	1800	Wed	184 184 184 000	AM	(AB-RUS/ MPJ/HFD)
E07	6853	2-11	1820	Wed	184 184 184 000	AM	(AB/HFD)
E07	5216	2-11	2020	Wed	682 1	USB	(HFD)
E07	6816	2-11	2020	Wed	682 1 176 34 71422	USB	(HFD)
E07	6777	3-11	2110	Thu	744 744 744 000	AM	(AB/HFD)
E07	5449	3-11	2130	Thu	744 744 744 000	AM	(AB/HFD)
E07	10112	5-11	0700	Sat	111 111 111 000	USB	(AB/ES/HFD)
E07	11112	5-11	0720	Sat	111 111 111 000	USB	(AB/ES/HFD)
E07	10112	6-11	0700	Sun	111 111 111 000	USB	(AB)

E07	11112	6-11	0720	Sun	111 111 111 000	USB	(AB)
E07	8153	6-11	1800	Sun	184 184 184 000	AM	(AB)
E07	6853	6-11	1820	Sun	184 184 184 000	AM	(AB)
E07	7616	7-11	2000	Mon	682 682 682 000	USB	(AB/HFD)
E07	6816	7-11	2020	Mon	682 682 682 000	USB	(AB/MPJ)
E07	14884	8-11	1100	Tue	835 835 835 000	USB	(ES)
E07	13384	8-11	1120	Tue	835 835 835 000	USB	(ES)
E07	8153	9-11	1800	Wed	184 184 184 000	AM	(AB/MPJ)
E07	6853	9-11	1820	Wed	184 184 184 000	AM	(AB)
E07	7616	9-11	2000	Wed	682 682 682 000	USB	(AB)
E07	6816	9-11	2020	Wed	682 682 682 000	USB	(AB/MPJ)
E07	6777	10-11	2110	Thu	744 744 744 000	AM	(AB)
E07	5449	10-11	2130	Thu	744 744 744 000	AM	(AB)
E07	14884	11-11	1100	Fri	835 1 4054 61 84781 59372 61917 ... 11304 85850 64074 4054 61 000	USB	(Danix/ES)
E07	13384	11-11	1120	Fri	835 1 4054 61 84781 59372 61917 ... 11304 85850 64074 4054 61 000	USB	(Danix/ES)
E07	11584	11-11	1140	Fri	835 1 4054 61 84781 59372 61917 ... 11304 85850 64074 4054 61 000	USB	(Danix/ES)
E07	10112	12-11	0700	Sat	111 111 111 000	USB	(AB/ES)
E07	11112	12-11	0720	Sat	111 111 111 000	USB	(AB/ES)
E07	10112	13-11	0700	Sun	111 111 111 000	USB	(AB)
E07	11112	13-11	0720	Sun	111 111 111 000	USB	(AB)
E07	8153	13-11	1800	Sun	184 184 184 000	AM	(AB)
E07	6853	13-11	1820	Sun	184 184 184 000	AM	(AB)
E07	7616	14-11	2000	Mon	682 682 682 000	USB	(AB)
E07	6816	14-11	2020	Mon	682 682 682 000	USB	(AB)
E07	14884	15-11	1100	Tue	835 1 4054 61 84781 59372 61917 ... 11304 85850 64074 4054 61 000	AM	(AB/ES)
E07	13384	15-11	1120	Tue	835 1 4054 61 84781 59372 61917 ... 11304 85850 64074 4054 61 000	AM	(AB/ES)
E07	11584	15-11	1140	Tue	835 1 4054 61 84781 59372 61917 ... 11304 85850 64074 4054 61 000	AM	(AB/MPJ/ES)
E07	8153	16-11	1800	Wed	184 184 184 000	AM	(AB-RUS)
E07	6853	16-11	1820	Wed	184 184 184 000	AM	(AB/MPJ)
E07	7616	16-11	2000	Wed	682 682 682 000	USB	(AB)
E07	6816	16-11	2020	Wed	682 682 682 000	USB	(AB)
E07	14884	18-11	1100	Fri	835 835 835 000	USB	(AB/MPJ/ES)
E07	13384	18-11	1120	Fri	835 845 835 000	USB	(AB/MPJ/ES)
E07	10112	19-11	0700	Sat	111 1 202 16 43080 10252 02330 56332 79405 20072 74587 91653 73268 67562 20527 83207 14964 89642 81795 94206 000 000	USB	(AB/ES)
E07	11112	19-11	0720	Sat	111 1 202 16 43080 10252 02330 56332 79405 20072 74587 91653 73268 67562 20527 83207 14964 89642 81795 94206 000 000	USB	(AB/ES)
E07	12112	19-11	0740	Sat	111 1 202 16 43080 10252 02330 56332 79405 20072 74587 91653 73268 67562 20527 83207 14964 89642 81795 94206 000 000	USB	(AB/ES)
E07	10112	20-11	0700	Sun	111 1 202 16 43080 10252 02330 56332 79405 20072 74587 91653 73268 67562 20527 83207 14964 89642 81795 94206 000 000	USB	(AB)
E07	11112	20-11	0720	Sun	111 1 202 16 43080 10252 02330 56332 79405 20072 74587 91653 73268 67562 20527 83207 14964 89642 81795 94206 000 000	USB	(AB)
E07	12112	20-11	0740	Sun	111 1 202 16 43080 10252 02330 56332 79405 20072 74587 91653 73268 67562 20527 83207 14964 89642 81795 94206 000 000	USB	(AB)
E07	8153	20-11	1800	Sun	184 184 184 000	AM	(AB/MPJ)
E07	6853	20-11	1820	Sun	184 184 184 0021	AM	(AB/MPJ)

E07	7616	21-11	2000	Mon	682 682 682 000	USB	(AB/MPJ)
E07	6816	21-11	2020	Mon	682 682 682 000	USB	(AB/MPJ)
E07	14884	22-11	1100	Tue	835 835 835 000	USB	(AB/MPJ/ES)
E07	13384	22-11	1120	Tue	835 835 835 000	USB	(AB/MPJ/ES)
E07	8153	23-11	1800	Wed	184 184 184 000	AM	(AB)
E07	6853	23-11	1820	Wed	184 184 184 000	AM	(AB)
E07	7616	23-11	2000	Wed	682 682 682 000	USB	(AB/MPJ)
E07	6816	23-11	2020	Wed	682 682 682 000	USB	(AB/MPJ)
E07	6777	24-11	2110	Thu	744 744 744 000	AM	(AB)
E07	5449	24-11	2130	Thu	744 744 744 000	AM	(AB)
E07	14884	25-11	1100	Fri	835 1 8453 78 42404 57361 39255 ... 52092 03171 57648 000 000	USB	(AB/MPJ)
E07	13384	25-11	1120	Fri	835 1 8453 78 42404 57361 39255 ... 52092 03171 57648 000 000	USB	(AB/MPJ)
E07	11584	25-11	1140	Fri	835 1 8453 78 42404 57361 39255 ... 52092 03171 57648 000 000	USB	(AB/MPJ)
E07	10112	26-11	0700	Sat	111 1 202 16 43080 10252 02330 56332 79405 20072 74587 91653 73268 67562 20527 83207 14964 89642 81795 94206 000 000	USB	(AB)
E07	11112	26-11	0720	Sat	111 1 202 16 43080 10252 02330 56332 79405 20072 74587 91653 73268 67562 20527 83207 14964 89642 81795 94206 000 000	USB	(AB)
E07	12112	26-11	0740	Sat	111 1 202 16 43080 10252 02330 56332 79405 20072 74587 91653 73268 67562 20527 83207 14964 89642 81795 94206 000 000	USB	(AB)
E07	15874	27-11	0120	Sun	883 883 883 000	USB	(Dan)
E07	10112	27-11	0700	Sun	111 1 202 16 43080 10252 02330 56332 79405 20072 74587 91653 73268 67562 20527 83207 14964 89642 81795 94206 000 000	USB	(AB)
E07	11112	27-11	0720	Sun	111 1 202 16 43080 10252 02330 56332 79405 20072 74587 91653 73268 67562 20527 83207 14964 89642 81795 94206 000 000	USB	(AB)
E07	12112	27-11	0740	Sun	111 1 202 16 43080 10252 02330 56332 79405 20072 74587 91653 73268 67562 20527 83207 14964 89642 81795 94206 000 000	USB	(AB)
E07	8153	27-11	1800	Sun	184 184 184 000	AM	(AB)
E07	6853	27-11	1820	Sun	184 184 184 0021	AM	(AB)
E07	7616	28-11	2000	Mon	682 1 847 25 59472 30719 73782 ... 05064 95778 55311 000 000	USB	(AB)
E07	6816	28-11	2020	Mon	682 1 847 25 59472 30719 73782 ... 05064 95778 55311 000 000	USB	(AB/MPJ)
E07	5216	28-11	2040	Mon	682 1 847 25 59472 30719 73782 ... 05064 95778 55311 000 000	USB	(AB/MPJ)
E07	14884	29-11	1100	Tue	835 1 8453 78 42404 57361 39255 ... 52092 03171 57648 000 000	USB	(AB)
E07	13384	29-11	1120	Tue	835 1 8453 78 42404 57361 39255 ... 52092 03171 57648 000 000	USB	(AB/MPJ)
E07	11584	29-11	1140	Tue	835 1 8453 78 42404 57361 39255 ... 52092 03171 57648 000 000	USB	(AB)
E07	8153	30-11	1800	Wed	184 184 184 000	AM	(AB/MPJ)
E07	6853	30-11	1820	Wed	184 184 184 000	AM	(AB/MPJ)
E07	7616	30-11	2000	Wed	682 1 847 25 59472 30719 73782 ... 05064 95778 55311 000 000	USB	(AB/MPJ)
E07	6816	30-11	2020	Wed	682 1 847 25 59472 30719 73782 ... 05064 95778 55311 000 000	USB	(AB)
E07	5216	30-11	2040	Wed	682 1 847 25 59472 30719 73782 ... 05064 95778 55311 000 000	USB	(AB)
E07a	5877	2-11	2100	Wed	825 825 825 000	USB	(AB/MPJ/HF D)

<b>E07a</b>	5277	2-11	2120	Wed	825 825 825 000	USB	(AB/HFD)
<b>E07a</b>	5111	3-11	0530	Thu	189 189 189 000	USB	(ES/HFD)
<b>E07a</b>	5811	3-11	0550	Thu	189 189 189 000	USB	(ES/HFD)
<b>E07a</b>	8138	4-11	1610	Fri	158 158 158 000	USB	(AB/MPJ/HFD)
<b>E07a</b>	7538	4-11	1630	Fri	158 158 158 000	USB	(AB/MPJ/HFD)
<b>E07a</b>	11553	5-11	0900	Sat	515 515 515 000	USB	(AB/HFD)
<b>E07a</b>	12153	5-11	0920	Sat	515 515 515 000	USB	(AB/HFD)
<b>E07a</b>	5877	9-11	2100	Wed	825 825 825 000	USB	(MPJ)
<b>E07a</b>	5111	10-11	0530	Thu	189 189 189 000	USB	(ES)
<b>E07a</b>	5111	10-11	0530	Thu	189 189 189 000	USB	(AB)
<b>E07a</b>	5811	10-11	0550	Thu	189 189 189 000	USB	(ES)
<b>E07a</b>	5811	10-11	0550	Thu	189 189 189 000	USB	(AB)
<b>E07a</b>	8138	11-11	1610	Fri	158 158 158 000	USB	(AB/MPJ/ES)
<b>E07a</b>	7538	11-11	1630	Fri	158 158 158 000	USB	(AB/MPJ/ES)
<b>E07a</b>	11553	12-11	0900	Sat	515 515 515 000	USB	(AB/ES)
<b>E07a</b>	12153	12-11	0920	Sat	515 515 515 000	USB	(AB/ES)
<b>E07a</b>	5877	16-11	2100	Wed	825 825 825 000	USB	(AB)
<b>E07a</b>	5277	16-11	2120	Wed	825 825 825 000	USB	(AB)
<b>E07a</b>	5111	17-11	0530	Thu	189 189 189 000	USB	(AB/ES)
<b>E07a</b>	5811	17-11	0550	Thu	189 189 189 000	USB	(AB/ES)
<b>E07a</b>	8138	18-11	1610	Fri	158 158 158 000	USB	(AB/MPJ)
<b>E07a</b>	7538	18-11	1630	Fri	158 158 158 000	USB	(AB/MPJ)
<b>E07a</b>	11553	19-11	0900	Sat	515 515 515 000	USB	(AB/ES)
<b>E07a</b>	12153	19-11	0920	Sat	515 515 515 000	USB	(AB/ES)
<b>E07a</b>	5877	23-11	2100	Wed	825 1 11602 7612 75 69131 11128 07512 ... 56031 66019 92515 000 000	USB	(AB/MPJ/RL)
<b>E07a</b>	5277	23-11	2120	Wed	825 1 11602 7612 75 69131 11128 07512 ... 56031 66019 92515 000 000	USB	(AB/MPJ/RL)
<b>E07a</b>	4577	23-11	2140	Wed	825 1 11602 7612 75 69131 11128 07512 ... 56031 66019 92515 000 000	USB	(AB)
<b>E07a</b>	5111	24-11	0530	Thu	189 1 11602 7612 75 69131 11128 07512 ... 56031 66019 92515 000 000	USB	(AB/ES)
<b>E07a</b>	5811	24-11	0550	Thu	189 1 11602 7612 75 69131 11128 07512 ... 56031 66019 92515 000 000	USB	(AB/ES)
<b>E07a</b>	6911	24-11	0610	Thu	189 1 11602 7612 75 69131 11128 07512 ... 56031 66019 92515 000 000	USB	(AB/ES)
<b>E07a</b>	8138	25-11	1610	Fri	158 158 158 000	USB	(AB/MPJ)
<b>E07a</b>	7538	25-11	1630	Fri	158 158 158 000	USB	(AB/MPJ)
<b>E07a</b>	11553	26-11	0900	Sat	515 515 515 000	USB	(AB/ES)
<b>E07a</b>	12153	26-11	0920	Sat	515 515 515 000	USB	(AB/ES)
<b>E07a</b>	5877	30-11	2100	Wed	825 825 825 000	USB	(AB/MPJ)
<b>E07a</b>	5277	30-11	2120	Wed	825 825 825 000	USB	(AB)
<b>E11</b>	7840	1-11	0645	Tue	517/00	USB	(AB-RUS)
<b>E11</b>	16112	1-11	0745	Tue	335/00	USB	(AB)
<b>E11</b>	7984	1-11	1205	Tue	469/00	USB	(AB/ES/HFD)
<b>E11</b>	14666	1-11	1345	Tue	911/00	USB	(HFD/ES)
<b>E11</b>	8196	1-11	1450	Tue	441/00	USB	(AB/HFD)
<b>E11</b>	12067	1-11	1925	Tue	551/00	USB	(AB/MPJ)
<b>E11</b>	10429	2-11	0805	Wed	311/00	USB	(AB/ES/HFD)
<b>E11</b>	9446	2-11	0900	Wed	534/00	USB	(AB/HFD)
<b>E11</b>	9950	2-11	0930	Wed	270/00	USB	(AB/ES/HFD)
<b>E11</b>	7984	2-11	1205	Wed	469/00	USB	(AB)
<b>E11</b>	10448	2-11	1625	Wed	972/00	USB	(AB/GHn/MPJ)
<b>E11</b>	7840	3-11	0645	Thu	517/00	USB	(AB/ES/HFD)
<b>E11</b>	16112	3-11	0745	Thu	335/00	USB	(AB)

E11	6940	3-11	0820	Thu	438/00	USB	(AB)
E11	9950	3-11	0930	Thu	270/00	USB	(AB/HFD)
E11	8196	3-11	1450	Thu	441/00	USB	(AB)
E11	5409	3-11	1530	Thu	262/00	USB	(AB/MPJ)
E11	5082	3-11	1730	Thu	416/00	USB	(AB/MPJ/HFD)
E11	13046	4-11	0600	Fri	181/00		(AB)
E11	20167	4-11	1225	Fri	521/00	USB	(HFD)
E11	12924	5-11	0710	Sat	491/00	USB	(AB/HFD)
E11	8680	5-11	1300	Sat	585/00	USB	(AB/ES/HFD)
E11	14666	5-11	1345	Sat	911/00	USB	(ES)
E11	9443	5-11	1705	Sat	392/00	USB	(AB)
E11	8545	5-11	1730	Sat	405/00	USB	(AB/HFD)
E11	16112	6-11	0730	Sun	352/00	USB	(AB)
E11	10429	6-11	0805	Sun	311/00	USB	(AB)
E11	10448	6-11	1625	Sun	972/00	USB	(AB)
E11	6940	7-11	0820	Mon	438/00	USB	(AB)
E11	20167	7-11	1225	Mon	521/00	USB	(AB)
E11	8800	8-11	1000	Tue	306/00	USB	(AB/ES)
E11	12153	8-11	1045	Tue	576/00 OUT	USB	(ES)
E11	12153	8-11	1045	Tue	576/00	USB	(AB)
E11	7984	8-11	1205	Tue	469/00	USB	(AB)
E11	7984	8-11	1205	Tue	469/00 OUT	USB	(ES)
E11	18030	8-11	1300	Tue	133/00	USB	(AB)
E11	8196	8-11	1450	Tue	441/00	USB	(AB)
E11	4505	8-11	1605	Tue	232/00	USB	(AB/MPJ)
E11	5779	9-11	0315	Wed	253/00	USB	(AB/ES)
E11	9950	9-11	0930	Wed	270/00	USB	(AB/ES)
E11	7984	9-11	1205	Wed	469/00	USB	(AB)
E11	18030	9-11	1300	Wed	133/00	USB	(AB/MPJ)
E11	10448	9-11	1625	Wed	972/00	USB	(AB/MPJ)
E11	9443	9-11	1705	Wed	392/00	USB	(AB/MPJ)
E11	5779	10-11	0315	Thu	253/00	USB	(AB)
E11	6849	10-11	0530	Thu	649/00	USB	(AB)
E11	9950	10-11	0930	Thu	270/00	USB	(AB)
E11	8680	10-11	1300	Thu	585/00	USB	(AB)
E11	8196	10-11	1450	Thu	441/00	USB	(AB/MPJ/ES)
E11	5409	10-11	1530	Thu	262/00	USB	(ES/MPJ)
E11	5409	10-11	1530	Thu	262/00	USB	(HFD)
E11	8800	11-11	1000	Fri	306/00	USB	(AB)
E11	20167	11-11	1225	Fri	521/00	USB	(ES)
E11	6304	11-11	2000	Fri	576/00	USB	(AB/GHn/MPJ/ES)
E11	8680	12-11	1300	Sat	585/00	USB	(AB/MPJ)
E11	14666	12-11	1345	Sat	911/00	USB	(AB)
E11	9443	12-11	1705	Sat	392/00	USB	(AB/MPJ)
E11	4505	13-11	1605	Sun	232/00	USB	(AB/MPJ)
E11	10448	13-11	1625	Sun	972/00	USB	(AB/MPJ)
E11	6849	14-11	0530	Mon	649/00	USB	(AB)
E11	7371	14-11	0820	Mon	438/00	USB	(AB)
E11	9446	14-11	0900	Mon	534/00	USB	(AB)
E11	7840	15-11	0645	Tue	517/00	USB	(AB/ES)
E11	8800	15-11	1000	Tue	306/00	USB	(AB/ES)
E11	12153	15-11	1045	Tue	576/00	USB	(AB/ES)
E11	7984	15-11	1205	Tue	469/00	USB	(AB/MPJ/ES)
E11	18030	15-11	1300	Tue	133/00	USB	(AB/MPJ/ES)
E11	14666	15-11	1345	Tue	911/00	USB	(AB/MPJ/ES)
E11	8196	15-11	1450	Tue	441/00	USB	(AB/MPJ)

E11	4505	15-11	1605	Tue	232/00	USB	(AB/MPJ)
E11	5779	16-11	0315	Wed	253/00	USB	(AB)
E11	10429	16-11	0805	Wed	311/00	USB	(ES)
E11	9446	16-11	0900	Wed	534/00	USB	(AB/ES)
E11	9950	16-11	0930	Wed	270/00	USB	(AB/ES)
E11	7984	16-11	1205	Wed	469/00	USB	(AB/MPJ)
E11	18030	16-11	1300	Wed	133/00	USB	(AB/ES)
E11	10448	16-11	1625	Wed	972/00	USB	(MPJ)
E11	9443	16-11	1705	Wed	392/00	USB	(AB/MPJ)
E11	8545	16-11	1730	Wed	405/00	USB	(AB/MPJ)
E11	5779	17-11	0315	Thu	253/00	USB	(AB)
E11	6849	17-11	0530	Thu	649/00	USB	(ES)
E11	7840	17-11	0645	Thu	517/00	USB	(AB)
E11	12924	17-11	0710	Thu	491/00	USB	(AB)
E11	16112	17-11	0745	Thu	335/00	USB	(AB)
E11	7371	17-11	0820	Thu	438/00	USB	(AB/HFD)
E11	9950	17-11	0930	Thu	270/00	USB	(AB)
E11	8680	17-11	1300	Thu	585/00	USB	(AB)
E11	5082	17-11	1730	Thu	416/00	USB	(AB)
E11	12067	17-11	1925	Thu	551/00	USB	(AB/MPJ)
E11	13046	18-11	0600	Fri	181/00	USB	(AB)
E11	16112	18-11	0730	Fri	352/00	USB	(AB)
E11	8800	18-11	1000	Fri	306/00	USB	(AB)
E11	6304	18-11	2000	Fri	576/00	USB	(AB/MPJ))
E11	5082	19-11	0450	Sat	416/00	USB	(ES)
E11	12924	19-11	0710	Sat	491/00	USB	(AB-I)
E11	8680	19-11	1300	Sat	585/00	USB	(AB/GHn/ES)
E11	14666	19-11	1345	Sat	911/00	USB	(GHn/ES)
E11	9443	19-11	1705	Sat	392/00	USB	(AB)
E11	8545	19-11	1730	Sat	405/00	USB	(AB/MPJ)
E11	16112	20-11	0730	Sun	352/00	USB	(AB)
E11	10429	20-11	0805	Sun	311/00	USB	(AB)
E11	4505	20-11	1605	Sun	232/00	USB	(AB)
E11	10448	20-11	1625	Sun	972/00	USB	(AB)
E11	13046	21-11	0600	Mon	181/00	USB	(AB)
E11	9446	21-11	0900	Mon	534/00	USB	(AB)
E11	20167	21-11	1225	Mon	521/00	USB	(AB-ISL)
E11	7840	22-11	0645	Tue	517/00	USB	(AB)
E11	16112	22-11	0745	Tue	335/00	USB	(AB)
E11	8800	22-11	1000	Tue	306/00	USB	(AB/ES)
E11	12153	22-11	1045	Tue	576/00	USB	(MPJ)
E11	7984	22-11	1205	Tue	469/00	USB	(AB/MPJ/ES)
E11	18030	22-11	1300	Tue	133/00	USB	(AB/MPJ/ES)
E11	4505	22-11	1605	Tue	232/00	USB	(AB/MPJ/ES)
E11	5779	23-11	0315	Wed	253/00	USB	(AB)
E11	10429	23-11	0805	Wed	311/00	USB	(AB)
E11	9446	23-11	0900	Wed	534/00	USB	(AB)
E11	7984	23-11	1205	Wed	469/00	USB	(AB/MPJ)
E11	18030	23-11	1300	Wed	133/00	USB	(AB)
E11	8545	23-11	1730	Wed	405/00	USB	(AB/MPJ)
E11	5779	24-11	0315	Thu	253/00	USB	(AB/ES)
E11	7840	24-11	0645	Thu	517/00	USB	(AB/ES)
E11	12924	24-11	0710	Thu	491/00	USB	(AB-I)
E11	16112	24-11	0745	Thu	335/00	USB	(AB)
E11	5409	24-11	1530	Thu	262/00	USB	(AB/MPJ)
E11	5082	24-11	1730	Thu	416/00	USB	(AB/MPJ)
E11	16112	25-11	0730	Fri	352/00	USB	(AB)
E11	8800	25-11	1000	Fri	306/00	USB	(AB)



<b>E11</b>	20167	25-11	1225	Fri	521/00	USB	(AB-GRC)
<b>E11</b>	16335	25-11	1650	Fri	921/00	USB	(RL)
<b>E11</b>	6304	25-11	2000	Fri	576/00	USB	(AB/MPJ)
<b>E11</b>	12924	26-11	0710	Sat	491/00	USB	(AB-FNL)
<b>E11</b>	9443	26-11	1705	Sat	392/00	USB	(AB/MPJ)
<b>E11</b>	8545	26-11	1730	Sat	405/00	USB	(AB/MPJ)
<b>E11</b>	16112	27-11	0730	Sun	352/00	USB	(AB)
<b>E11</b>	10429	27-11	0805	Sun	311/00	USB	(AB)
<b>E11</b>	4505	27-11	1605	Sun	232/00	USB	(AB/MPJ)
<b>E11</b>	10213	28-11	0745	Mon	262/00	USB	(AB)
<b>E11</b>	7371	28-11	0820	Mon	438/00	USB	(AB)
<b>E11</b>	9446	28-11	0900	Mon	534/00	USB	(AB)
<b>E11</b>	16112	29-11	0745	Tue	335/00	USB	(AB)
<b>E11</b>	8800	29-11	1000	Tue	306/00	USB	(AB)
<b>E11</b>	12153	29-11	1045	Tue	576/00	USB	(AB)
<b>E11</b>	18030	29-11	1300	Tue	133/00	USB	(AB/MPJ)
<b>E11</b>	14666	29-11	1345	Tue	911/00	USB	(AB)
<b>E11</b>	4505	29-11	1605	Tue	232/00	USB	(AB/MPJ)
<b>E11</b>	5779	30-11	0315	Wed	253/00	USB	(AB)
<b>E11</b>	10429	30-11	0805	Wed	311/00	USB	(AB)
<b>E11</b>	9446	30-11	0900	Wed	534/00	USB	(AB)
<b>E11</b>	9950	30-11	0930	Wed	270/00	USB	(AB)
<b>E11</b>	18030	30-11	1300	Wed	133/00	USB	(AB/MPJ)
<b>E11</b>	10448	30-11	1625	Wed	976/00	USB	(AB)
<b>E11</b>	9443	30-11	1705	Wed	395/00	USB	(AB/MPJ)
<b>E11</b>	8545	30-11	1730	Wed	406/00	USB	(AB/MPJ)
<b>E11a</b>	8800	1-11	1009	Tue	i.p. 42691 39386 40855 50010 02206 74320 83974 89949 00694 61513 OUT	USB	(ES)
<b>E11a</b>	12153	1-11	1045	Tue	575/37 Attention 15933 88708 04212 ... 83437 38220 20277 Attention, rpt msg, out	USB	(AB/ES/HFD)
<b>E11a</b>	18030	1-11	1300	Tue	132/32 Attention 12922 55156 69300 ... 53116 79103 21263 Attention, rpt msg, out	USB	(AB)
<b>E11a</b>	4505	1-11	1605	Tue	237/39 Attention 94305 91960 57915 ... 03219 91574 91667 Attention, rpt msg, out	USB	(AB/ES/HFD)
<b>E11a</b>	5779	2-11	0315	Wed	251/32 Attention 95645 21904 99942 ... 06939 71979 37936 Attention, rpt msg, out	USB	(AB/HFD)
<b>E11a</b>	18030	2-11	1300	Wed	132/32 Attention 12922 55156 69300 ... 53116 79103 21263 Attention, rpt msg, out	USB	(AB/ES)
<b>E11a</b>	9443	2-11	1705	Wed	393/39 Attention 03385 90752 92306 ... 37460 95644 74134 Attention, rpt msg, out	USB	(AB/HFD)
<b>E11a</b>	5779	3-11	0315	Thu	251/32 Attention 95645 21904 99942 ... 06939 71979 37936 Attention, rpt msg, out	USB	(AB/ES/HFD)
<b>E11a</b>	16335	4-11	1650	Fri	924/37 62939	USB	(HFD)
<b>E11a</b>	6304	4-11	2000	Fri	575/37 15933	USB	(HFD)
<b>E11a</b>	4505	6-11	1605	Sun	237/39 Attention 94305 91960 57915 ... 03219 91574 91667 Attention, rpt msg, out	USB	(AB)
<b>E11a</b>	5082	7-11	0450	Mon	410/39 Attention 96270 85998 90597 ... 60754 26422 79189 Attention, rpt msg, out	USB	(ES/HFD)
<b>E11a</b>	13046	7-11	0600	Mon	188/36 Attention 08033 80556 44480 ... 39753 27882 12050 Attention, rpt msg, out	USB	(AB)
<b>E11a</b>	9446	7-11	0900	Mon	533/37 Attention 88001 67168 39173 ... 34293 57031 18196 Attention, rpt msg, out	USB	(AB)
<b>E11a</b>	7840	8-11	0645	Tue	517/40 Attention 48650 36090 03257 ... 52388 98298 54924 Attention, rpt msg, out	USB	(AB/ES)
<b>E11a</b>	16112	8-11	0745	Tue	338/31 Attention 68180 41624 43980 ... 41944 26893 17929 Attention, rpt msg, out	USB	(ES)
<b>E11a</b>	10429	9-11	0805	Wed	310/39 Attention 20390 49167 88441 ... 80655 46859 05540 Attention, rpt msg, out	USB	(AB)

<b>E11a</b>	9446	9-11	0900	Wed	533/37 Attention 88001 67168 39173 ... 34293 57031 18196 Attention, rpt msg, out	USB	(AB/ES)
<b>E11a</b>	8545	9-11	1730	Wed	406/38 Attention 01414 34641 06438 ... 34609 56625 69724 Attention, rpt msg, out	USB	(AB/MPJ)
<b>E11a</b>	7840	10-11	0645	Thu	517/40 Attention 48650 36090 03257 ... 52388 98298 54924 Attention, rpt msg, out	USB	(AB)
<b>E11a</b>	12924	10-11	0710	Thu	490/31 Attention 45489 56873 34616 ... 32398 15275 05557 Attention, rpt msg, out	USB	(AB-RUS)
<b>E11a</b>	16112	10-11	0745	Thu	338/31 Attention 68180 41624 43980 ... 41944 26893 17929 Attention, rpt msg, out	USB	(AB-FNL/HFD)
<b>E11a</b>	5082	10-11	1730	Thu	410/39 Attention 96270 85998 90597 ... 60754 26422 79189 Attention, rpt msg, out	USB	(AB/MPJ)
<b>E11a</b>	12067	10-11	1925	Thu	522/34 Attention ...	USB	(AB
<b>E11a</b>	13046	11-11	0600	Fri	188/36 Attention 08033 80556 44480 ... 39753 27882 12050 Attention, rpt msg, out	USB	(AB/ES)
<b>E11a</b>	16112	11-11	0730	Fri	359/36 Attention 38644 17295 89161 ... 32921 56837 65125 Attention, rpt msg, out	USB	(AB)
<b>E11a</b>	12924	12-11	0710	Sat	490/31 Attention 45489 56873 34616 ... 32398 15275 05557 Attention, rpt msg, out	USB	(AB-I/ES)
<b>E11a</b>	8545	12-11	1730	Sat	406/38 Attention 01414 34641 06438 ... 34609 56625 69724 Attention, rpt msg, out	USB	(AB/MPJ)
<b>E11a</b>	10429	13-11	0805	Sun	310/39 Attention 20390 49167 88441 ... 80655 46859 05540 Attention, rpt msg, out	USB	(AB)
<b>E11a</b>	5409	17-11	1530	Thu	266/39 Attention 86172 89007 17140 ... 88762 39221 55602 Attention, rpt msg, out	USB	(AB/MPJ)
<b>E11a</b>	20167	18-11	1225	Fri	520/40 Attention 44802 87732 72968 ... 31167 17556 53961 Attention, rpt msg, out	USB	(AB-I)
<b>E11a</b>	6849	21-11	0530	Mon	641/37 Attention 99306 91276 29030 ... 62873 14002 99261 Attention, rpt msg, out	USB	(AB)
<b>E11a</b>	7371	21-11	0820	Mon	432/32 Attention 04852 33305 87030 ... 37556 96993 55618 Attention, rpt msg, out	USB	(AB)
<b>E11a</b>	14666	22-11	1345	Tue	912/32 Attention 61037 56113 37384 ... 33589 09423 53263 Attention, rpt msg, out	USB	(AB/MPJ/ES)
<b>E11a</b>	8196	22-11	1450	Tue	443/35 Attention 67807 22273 85223 ... 43654 91562 65934 Attention, rpt msg, out	USB	(AB/MPJ?ES)
<b>E11a</b>	9950	23-11	0930	Wed	276/33 Attention 11893 20358 58047 ... 35392 23710 10642 Attention, rpt msg, out	USB	(AB/ES)
<b>E11a</b>	6849	24-11	0530	Thu	641/37 Attention 99306 91276 29030 ... 62873 14002 99261 Attention, rpt msg, out	USB	(AB)
<b>E11a</b>	7371	24-11	0820	Thu	432/32 Attention 04852 33305 87030 ... 37556 96993 55618 Attention, rpt msg, out	USB	(AB/ES)
<b>E11a</b>	9950	24-11	0930	Thu	276/33 Attention 11893 20358 58047 ... 35392 23710 10642 Attention, rpt msg, out	USB	(AB)
<b>E11a</b>	8680	24-11	1300	Thu	587/32 Attention 48614 22150 96987 ... 25298 97464 73292 Attention, rpt msg, out	USB	(AB/MPJ/ES)
<b>E11a</b>	8196	24-11	1450	Thu	443/35 Attention 67807 22273 85223 ... 43654 91562 65934 Attention, rpt msg, out	USB	(AB/MPJ)
<b>E11a</b>	8680	26-11	1300	Sat	587/32 Attention 48614 22150 96987 ... 25298 97464 73292 Attention, rpt msg, out	USB	(AB)
<b>E11a</b>	14666	26-11	1345	Sat	912/32 Attention 61037 56113 37384 ... 33589 09423 53263 Attention, rpt msg, out	USB	(AB)
<b>E11a</b>	7984	29-11	1205	Tue	464/32 Attention 09841 80231 60879 ... 67048 54212 32989 Attention, rpt msg, out	USB	(AB)
<b>E11a</b>	7984	30-11	1205	Wed	464/32 Attention 09841 80231 60879 ... 67048 54212 30989 Attention, rpt msg, out	USB	(AB/MPJ)
<b>E17z</b>	11170	3-11	0800	Thu	674 219 5 33370 39705 36201 37352 96930 219 5 00000	USB	(AB/ES)
<b>E17z</b>	9820	3-11	0810	Thu	674 219 5 33370 39705 36201 37352 96930 219 5 00000	USB	(AB)



<b>E17z</b>	11170	10-11	0800	Thu	674 219 5 33370 39705 36201 37352 96930 219 5 00000	USB	(AB)
<b>E17z</b>	9820	10-11	0810	Thu	674 219 5 33370 39705 36201 37352 96930 219 5 00000	USB	(AB)
<b>E17z</b>	11170	17-11	0800	Thu	674 218 5 38034 37823 38240 48235 38702 218 5 00000	USB	(AB/ES)
<b>E17z</b>	9820	17-11	0810	Thu	674 218 5 38034 37823 38240 48235 38702 218 5 00000	USB	(AB/ES)
<b>E17z</b>	11170	24-11	0800	Thu	674 218 5 38034 37823 38240 48235 38702 218 5 00000	USB	(AB/ES)
<b>E17z</b>	9820	24-11	0810	Thu	674 218 5 38034 37823 38240 48235 38702 218 5 00000	USB	(AB/ES)
<b>E25</b>	6140	4-11	1115	Fri	880 Message 2180 5001 4199 1502 0536 2310 1716 3656 9116 2180 Rebeat 2180 5001 4199 1502 0536 2310 1716 3656 9116 2180 EOM EOT Windows 7 shutdown sound	AM	(PW2/qsr711)
<b>E25</b>	6140	6-11	0745	Sun	250 (R) Message 9144 5080 6211 2640 6313 2603 4587 6211 Rebeat 9144 5080 6211 2640 6313 2603 4587 6211 EOM EOT	AM	(qsr711)
<b>E25</b>	6140	10-11	0752	Thu	Windows 7 login sound. 012 Message 6006 2670 1712 5584 7898 2905 4862 7296 9548 Rebeat 6006 2670 1712 5584 7898 2905 4862 7296 9548 EOM EOT	AM	(qsr711)
<b>E25</b>	6140	11-11	0800	Fri	012 Message 6006 2670 1712 5584 7898 2905 4862 7296 9548 Rebeat 6006 2670 1712 5584 7898 2905 4862 7296 9548 EOM EOT	AM	(qsr711)
<b>EGY</b>	11406.7	1-11	2119	Tue	Egyptian embassy Washington tfc to Cairo	SITOR-B 100/170	(MCO)
<b>EGY</b>	10223.7	1-11	2120	Tue	Egyptian embassy Washington tfc to Cairo (QSY from 11406.7 kHz)	SITOR-B 100/170	(MCO)
<b>EGY</b>	19101.7	21-11	1319	Mon	Egyptian Embassy, Accra sends ATU-80 telex headed ?jg: kw??fk? to MFA Cairo	SITOR-A 100/160	(MCO)
<b>EGY</b>	18417	21-11	1352	Mon	MFA Cairo (99905) and Egyptian Embassy Djibouti (33318) unable to connect successfully	Codan Chirp 80Bd	(MCO)
<b>EGY</b>	14620	23-11	1547	Wed	MFA, Cairo (99910) calls 11108: Egyptian Embassy, Madrid	Codan Chirp 80Bd	(MCO)
<b>EGY</b>	19126.7	24-11	1604	Thu	tfc between MFA Cairo and Embassy Conakry selcall: KKVD	SITOR-A 100/170	(MCO)
<b>F11</b>	7772	1-11	0630	Tue	0574 00000	FSK 100/625	(AB-RUS)
<b>F11</b>	7772	1-11	0635	Tue	0574 00000	FSK 100/625	(AB-RUS)
<b>F11</b>	16388	1-11	0730	Tue	0433 00000	FSK 100/625	(AB)
<b>F11</b>	16388	1-11	0735	Tue	0433 00000	FSK 100/625	(AB)
<b>F11</b>	7499	1-11	0900	Tue	0554 00000	FSK 100/625	(AB)
<b>F11</b>	7499	1-11	0905	Tue	0554 00000	FSK 100/625	(AB)
<b>F11</b>	7863	1-11	1150	Tue	0325 00000	FSK 100/625	(AB)
<b>F11</b>	7863	1-11	1155	Tue	0325 00000	FSK 100/625	(AB)
<b>F11</b>	17531	1-11	1245	Tue	0132 88888 88888 12922 55156 69300 ... 53116 79103 21263 88888 88888 00036 00036	FSK 100/625	(AB)
<b>F11</b>	17531	1-11	1250	Tue	0132 88888 88888 12922 55156 69300 ... 53116 79103 21263 88888 88888 00036 00036	FSK 100/625	(AB)
<b>F11</b>	5831	2-11	0300	Wed	0231 88888 88888 95645 21904 99942 ... 06939 71979 37936 88888 88888 00036 00036	FSK 100/625	(AB)
<b>F11</b>	5831	2-11	0305	Wed	0231 88888 88888 95645 21904 99942 ... 06939 71979 37936 88888 88888 00036 00036	FSK 100/625	(AB)
<b>F11</b>	9370	2-11	0845	Wed	0353 00000	FSK 100/625	(AB)
<b>F11</b>	9370	2-11	0850	Wed	0353 00000	FSK 100/625	(AB)
<b>F11</b>	7863	2-11	1150	Wed	0325 00000	FSK 100/625	(AB)
<b>F11</b>	7863	2-11	1155	Wed	0325 00000	FSK 100/625	(AB)

<b>F11</b>	17531	2-11	1245	Wed	0132 88888 88888 12922 55156 69300 ... 53116 79103 21263 88888 88888 00036 00036	FSK 100/625	(AB)
<b>F11</b>	17531	2-11	1250	Wed	0132 88888 88888 12922 55156 69300 ... 53116 79103 21263 88888 88888 00036 00036	FSK 100/625	(AB)
<b>F11</b>	5831	3-11	0300	Thu	0231 88888 88888 95645 21904 99942 ... 06939 71979 37936 88888 88888 00036 00036	FSK 100/625	(AB)
<b>F11</b>	5831	3-11	0305	Thu	0231 88888 88888 95645 21904 99942 ... 06939 71979 37936 88888 88888 00036 00036	FSK 100/625	(AB)
<b>F11</b>	7772	3-11	0630	Thu	0574 00000	FSK 100/625	(AB)
<b>F11</b>	7772	3-11	0635	Thu	0574 00000	FSK 100/625	(AB)
<b>F11</b>	16388	3-11	0730	Thu	0433 00000	FSK 100/625	(AB)
<b>F11</b>	16388	3-11	0735	Thu	0433 00000	FSK 100/625	(AB)
<b>F11</b>	6836	3-11	0800	Thu	0434 00000	FSK 100/625	(AB)
<b>F11</b>	6836	3-11	0805	Thu	0434 00000	FSK 100/625	(AB)
<b>F11</b>	7499	4-11	0900	Fri	0554 00000	FSK 100/625	(AB)
<b>F11</b>	7499	4-11	0905	Fri	0554 00000	FSK 100/625	(AB)
<b>F11</b>	6836	7-11	0800	Mon	0434 00000	FSK 100/625	(AB)
<b>F11</b>	6836	7-11	0805	Mon	0434 00000	FSK 100/625	(AB)
<b>F11</b>	9370	7-11	0845	Mon	0353 88888 88888 88001 67168 39173 ... 34293 57031 18196 88888 88888 00041 00041	FSK 100/625	(AB)
<b>F11</b>	9370	7-11	0850	Mon	0353 88888 88888 88001 67168 39173 ... 34293 57031 18196 88888 88888 00041 00041	FSK 100/625	(AB)
<b>F11</b>	7772	8-11	0630	Tue	0574 88888 88888 48650 36090 03257 ... 52388 98298 54924 88888 88888 00044 00044	FSK 100/625	(AB)
<b>F11</b>	7772	8-11	0635	Tue	0574 88888 88888 48650 36090 03257 ... 52388 98298 54924 88888 88888 00044 00044	FSK 100/625	(AB)
<b>F11</b>	7499	8-11	0900	Tue	0554 88888 88888 76820 49380 63014 ... 40277 58928 17892 88888 88888 00035 00035	FSK 100/625	(AB)
<b>F11</b>	7499	8-11	0905	Tue	0554 88888 88888 76820 49380 63014 ... 40277 58928 17892 88888 88888 00035 00035	FSK 100/625	(AB)
<b>F11</b>	7863	8-11	1150	Tue	0325 00000	FSK 100/625	(AB)
<b>F11</b>	7863	8-11	1155	Tue	0325 00000	FSK 100/625	(AB)
<b>F11</b>	17531	8-11	1245	Tue	0132 00000	FSK 100/625	(AB)
<b>F11</b>	17531	8-11	1250	Tue	0132 00000	FSK 100/625	(AB)
<b>F11</b>	5831	9-11	0300	Wed	0231 00000	FSK 100/625	(AB)
<b>F11</b>	5831	9-11	0305	Wed	0231 00000	FSK 100/625	(AB)
<b>F11</b>	9370	9-11	0845	Wed	0353 88888 88888 88001 67168 39173 ... 34293 57031 18196 88888 88888 00041 00041	FSK 100/625	(AB)
<b>F11</b>	9370	9-11	0850	Wed	0353 88888 88888 88001 67168 39173 ... 34293 57031 18196 88888 88888 00041 00041	FSK 100/625	(AB)
<b>F11</b>	7863	9-11	1150	Wed	0325 00000	FSK 100/625	(AB)
<b>F11</b>	7863	9-11	1155	Wed	0325 00000	FSK 100/625	(AB)
<b>F11</b>	17531	9-11	1245	Wed	0132 00000	FSK 100/625	(AB)
<b>F11</b>	17531	9-11	1250	Wed	0132 00000	FSK 100/625	(AB)
<b>F11</b>	5831	10-11	0300	Thu	0231 00000	FSK 100/625	(AB)
<b>F11</b>	5831	10-11	0305	Thu	0231 00000	FSK 100/625	(AB)
<b>F11</b>	7772	10-11	0630	Thu	0574 88888 88888 48650 36090 03257 ... 52388 98298 54924 88888 88888 00044 00044	FSK 100/625	(AB)
<b>F11</b>	7772	10-11	0635	Thu	0574 88888 88888 48650 36090 03257 ... 52388 98298 54924 88888 88888 00044 00044	FSK 100/625	(AB)
<b>F11</b>	16388	10-11	0730	Thu	0433 88888 88888 68180 41624 43980 ... 41944 26893 17929 88888 88888 00035 00035	FSK 100/625	(AB-FNL)
<b>F11</b>	16388	10-11	0735	Thu	0433 88888 88888 68180 41624 43980 ... 41944 26893 17929 88888 88888 00035 00035	FSK 100/625	(AB-FNL)
<b>F11</b>	6836	10-11	0800	Thu	0434 00000	FSK 100/625	(AB)
<b>F11</b>	6836	10-11	0805	Thu	0434 00000	FSK 100/625	(AB)
<b>F11</b>	7499	11-11	0900	Fri	0554 88888 88888 76820 49380 63014 ... 40277 58928 17892 88888 88888 00035 00035	FSK 100/625	(AB)

<b>F11</b>	7499	11-11	0905	Fri	0554 88888 88888 76820 49380 63014 ... 40277 58928 17892 88888 88888 00035 00035	FSK 100/625	(AB)
<b>F11</b>	6836	14-11	0800	Mon	0434 00000	FSK 100/625	(AB)
<b>F11</b>	6836	14-11	0805	Mon	0434 00000	FSK 100/625	(AB)
<b>F11</b>	9370	14-11	0845	Mon	0353 00000	FSK 100/625	(AB)
<b>F11</b>	9370	14-11	0850	Mon	0353 00000	FSK 100/625	(AB)
<b>F11</b>	7772	15-11	0630	Tue	0574 00000	FSK 100/625	(AB)
<b>F11</b>	7772	15-11	0635	Tue	0574 00000	FSK 100/625	(AB)
<b>F11</b>	7499	15-11	0900	Tue	0554 00000	FSK 100/625	(AB)
<b>F11</b>	7499	15-11	0905	Tue	0554 00000	FSK 100/625	(AB)
<b>F11</b>	7863	15-11	1150	Tue	0325 00000	FSK 100/625	(AB)
<b>F11</b>	7863	15-11	1155	Tue	0325 00000	FSK 100/625	(AB)
<b>F11</b>	17531	15-11	1245	Tue	0132 00000	FSK 100/625	(AB)
<b>F11</b>	17531	15-11	1250	Tue	0132 00000	FSK 100/625	(AB)
<b>F11</b>	5831	16-11	0300	Wed	0231 00000	FSK 100/625	(AB)
<b>F11</b>	5831	16-11	0305	Wed	0231 00000	FSK 100/625	(AB)
<b>F11</b>	9370	16-11	0845	Wed	0353 00000	FSK 100/625	(AB)
<b>F11</b>	9370	16-11	0850	Wed	0353 00000	FSK 100/625	(AB)
<b>F11</b>	7863	16-11	1150	Wed	0325 00000	FSK 100/625	(AB)
<b>F11</b>	7863	16-11	1155	Wed	0325 00000	FSK 100/625	(AB)
<b>F11</b>	17531	16-11	1245	Wed	0132 00000	FSK 100/625	(AB)
<b>F11</b>	17531	16-11	1250	Wed	0132 00000	FSK 100/625	(AB)
<b>F11</b>	5831	17-11	0300	Thu	0231 00000	FSK 100/625	(AB)
<b>F11</b>	5831	17-11	0305	Thu	0231 00000	FSK 100/625	(AB)
<b>F11</b>	7772	17-11	0630	Thu	0574 00000	FSK 100/625	(AB)
<b>F11</b>	7772	17-11	0635	Thu	0574 00000	FSK 100/625	(AB)
<b>F11</b>	16388	17-11	0730	Thu	0433 00000	FSK 100/625	(AB)
<b>F11</b>	16388	17-11	0735	Thu	0433 00000	FSK 100/625	(AB)
<b>F11</b>	6836	17-11	0800	Thu	0434 00000	FSK 100/625	(AB)
<b>F11</b>	6836	17-11	0805	Thu	0434 00000	FSK 100/625	(AB)
<b>F11</b>	7499	18-11	0900	Fri	0554 00000	FSK 100/625	(AB)
<b>F11</b>	7499	18-11	0905	Fri	0554 00000	FSK 100/625	(AB)
<b>F11</b>	6940	21-11	0515	Mon	0446 88888 88888 99306 91276 29030 ... 62873 14002 99261 88888 88888 00041 00041	FSK 100/625	(AB)
<b>F11</b>	6940	21-11	0520	Mon	0446 88888 88888 99306 91276 29030 ... 62873 14002 99261 88888 88888 00041 00041	FSK 100/625	(AB)
<b>F11</b>	6836	21-11	0800	Mon	0434 88888 88888 04852 33305 87030 ... 37556 96993 55618 88888 88888 00036 00036	FSK 100/625	(AB)
<b>F11</b>	6836	21-11	0805	Mon	0434 88888 88888 04852 33305 87030 ... 37556 96993 55618 88888 88888 00036 00036	FSK 100/625	(AB)
<b>F11</b>	9370	21-11	0845	Mon	0353 00000	FSK 100/625	(AB)
<b>F11</b>	9370	21-11	0850	Mon	0353 00000	FSK 100/625	(AB)
<b>F11</b>	7772	22-11	0630	Tue	0574 00000	FSK 100/625	(AB)
<b>F11</b>	7772	22-11	0635	Tue	0574 00000	FSK 100/625	(AB)
<b>F11</b>	16388	22-11	0730	Tue	0433 00000	FSK 100/625	(AB)
<b>F11</b>	16388	22-11	0735	Tue	0433 00000	FSK 100/625	(AB)
<b>F11</b>	7499	22-11	0900	Tue	0554 00000	FSK 100/625	(AB)
<b>F11</b>	7499	22-11	0905	Tue	0554 00000	FSK 100/625	(AB)
<b>F11</b>	7863	22-11	1150	Tue	0325 00000	FSK 100/625	(AB)
<b>F11</b>	7863	22-11	1155	Tue	0325 00000	FSK 100/625	(AB)
<b>F11</b>	17531	22-11	1245	Tue	0132 00000	FSK 100/625	(AB)
<b>F11</b>	17531	22-11	1250	Tue	0132 00000	FSK 100/625	(AB)
<b>F11</b>	5831	23-11	0300	Wed	0231 00000	FSK 100/625	(AB)
<b>F11</b>	5831	23-11	0305	Wed	0231 00000	FSK 100/625	(AB)
<b>F11</b>	9370	23-11	0845	Wed	0353 00000	FSK 100/625	(AB)
<b>F11</b>	9370	23-11	0850	Wed	0353 00000	FSK 100/625	(AB)
<b>F11</b>	7863	23-11	1150	Wed	0325 00000	FSK 100/625	(AB)
<b>F11</b>	7863	23-11	1155	Wed	0325 00000	FSK 100/625	(AB)

F11	17531	23-11	1245	Wed	0132 00000	FSK 100/625	(AB)
F11	17531	23-11	1250	Wed	0132 00000	FSK 100/625	(AB)
F11	5831	24-11	0300	Thu	0231 00000	FSK 100/625	(AB)
F11	5831	24-11	0305	Thu	0231 00000	FSK 100/625	(AB)
F11	6940	24-11	0515	Thu	0446 88888 88888 99306 91276 29030 ... 62873 14002 99261 88888 88888 00041 00041	FSK 100/625	(AB)
F11	6940	24-11	0520	Thu	0446 88888 88888 99306 91276 29030 ... 62873 14002 99261 88888 88888 00041 00041	FSK 100/625	(AB)
F11	7772	24-11	0630	Thu	0574 00000	FSK 100/625	(AB)
F11	7772	24-11	0635	Thu	0574 00000	FSK 100/625	(AB)
F11	16388	24-11	0730	Thu	0433 00000	FSK 100/625	(AB)
F11	16388	24-11	0735	Thu	0433 00000	FSK 100/625	(AB)
F11	6836	24-11	0800	Thu	0434 88888 88888 04852 33305 87030 ... 37556 96993 55618 88888 88888 00036 00036	FSK 100/625	(AB)
F11	6836	24-11	0805	Thu	0434 88888 88888 04852 33305 87030 ... 37556 96993 55618 88888 88888 00036 00036	FSK 100/625	(AB)
F11	7499	25-11	0900	Fri	0554 00000	FSK 100/625	(AB)
F11	7499	25-11	0905	Fri	0554 00000	FSK 100/625	(AB)
F11	6836	28-11	0800	Mon	0434 00000	FSK 100/625	(AB)
F11	6836	28-11	0805	Mon	0434 00000	FSK 100/625	(AB)
F11	9370	28-11	0845	Mon	0353 00000	FSK 100/625	(AB)
F11	9370	28-11	0850	Mon	0353 00000	FSK 100/625	(AB)
F11	7772	29-11	0630	Tue	0574 00000	FSK 100/625	(AB)
F11	7772	29-11	0635	Tue	0574 00000	FSK 100/625	(AB)
F11	16388	29-11	0730	Tue	0433 00000	FSK 100/625	(AB)
F11	16388	29-11	0735	Tue	0433 00000	FSK 100/625	(AB)
F11	7499	29-11	0900	Tue	0554 00000	FSK 100/625	(AB)
F11	7499	29-11	0905	Tue	0554 00000	FSK 100/625	(AB)
F11	7863	29-11	1150	Tue	0325 88888 88888 09841 80231 60879 ... 67048 54212 30989 88888 88888 00036 00036	FSK 100/625	(AB)
F11	7863	29-11	1155	Tue	0325 88888 88888 09841 80231 60879 ... 67048 54212 30989 88888 88888 00036 00036	FSK 100/625	(AB)
F11	17531	29-11	1245	Tue	0132 00000	FSK 100/625	(AB)
F11	17531	29-11	1250	Tue	0132 00000	FSK 100/625	(AB)
F11	5831	30-11	0300	Wed	0231 00000	FSK 100/625	(AB)
F11	5831	30-11	0305	Wed	0231 00000	FSK 100/625	(AB)
F11	9370	30-11	0845	Wed	0353 00000	FSK 100/625	(AB)
F11	9370	30-11	0850	Wed	0353 00000	FSK 100/625	(AB)
F11	7863	30-11	1150	Wed	0325 88888 88888 09841 80231 60879 ... 67048 54212 30989 88888 88888 00036 00036	FSK 100/625	(AB)
F11	7863	30-11	1155	Wed	0325 88888 88888 09841 80231 60879 ... 67048 54212 30989 88888 88888 00036 00036	FSK 100/625	(AB)
F11	17531	30-11	1245	Wed	0132 00000	FSK 100/625	(AB)
F11	17531	30-11	1250	Wed	0132 00000	FSK 100/625	(AB)
G06	3696	7-11	1700	Mon	574 574 574 00000 Fast version. Windows XP error sound	USB	(AB/MPJ/HF D)
G06	4562	7-11	1800	Mon	574 574 574 00000 Slow version. Windows shut down sound	USB	(AB/MPJ/HF D)
G06	4912	9-11	1200	Wed	574 574 574 00000	USB	(AB-POL/ES/HFD )
G06	4912	9-11	1215	Wed	111 111 111 00000	USB	(ES)
G06	4034	9-11	1300	Wed	574 574 574 00000. Windows XP shut off sound	USB	(AB-POL/ES/HFD )
G06	4460	10-11	1300	Thu	329 329 329 00000	USB	(AB-POL)
G06	4519	10-11	1829	Thu	271 271 271 00000. Pauses, restarts and Windows XP error sounds. Then into a message: 271 149 52	USB	(AB)/HFD

					12265 12965 47839 ... 53234 05124 95735 149 52 00000 Windows XP shut down sound		
G06	4519	10-11	1830	Thu	271 271 271 00000	USB	(MPJ)
G06	4792	11-11	1850	Fri	00000	USB	(MPJ)
G06	4792	11-11	1929	Fri	436 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000. Started 1 minute early	USB	(AB/MPJ)
G06	3696	14-11	1659	Mon	574 574 574 00000	USB	(AB)
G06	4562	14-11	1754	Mon	574 574 574 00000 stopped at 1755z	USB	(AB/MPJ)
G06	4562	14-11	1758	Mon	574 574 574 00000 off at 1803z with Windows XP shutoff sound	USB	(AB/MPJ)
G06	4912	16-11	1158	Wed	574 574 574 00000	USB	(AB-POL/ES)
G06	4034	16-11	1258	Wed	574 574 574 00000	USB	(AB-POL/ES)
G06	5320	21-11	0758	Mon	329 329 329 00000 Windows XP shutdown sound	USB	(AB)
G06	4466	24-11	1259	Thu	329 329 329 00000	USB	(ES)
G06	4519	24-11	1828	Thu	271 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000	USB	(AB/MPJ)
G06	4792	25-11	1902	Fri	111 111 111 0000	USB	(AB)
G06	4792	25-11	1908	Fri	00 111 111 111 00000 111 111 111 00000 111 111 111 00000 111 111 111 00000 111 111 1	USB	(AB)
G06	4792	25-11	1929	Fri	436 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000 Windows XP shut down sound	USB	(AB/MPJ)
HM01	11435	1-11	1557	Tue	86555 14417 70137 41846 27161 64117	AM/RDFT	(RR2)
HM01	11435	1-11	1638	Tue	86555 14417 70137 41846 27161 64117	AM/RDFT	(DSch)
HM01	11435	2-11	1610	Wed	i.p. 86556 14418 64161 41847 27162 64118	AM/RDFT	(RR2)
HM01	11435	2-11	1638	Wed	41847 27162 64118 86556 14418 64161	AM/RDFT	(DSch)
HM01	11435	3-11	1553	Thu	Yesterday's groups, then at 1557 UTC: 86557 61331 64161 41848 27163 37281	AM/RDFT	(RR2)
HM01	11435	3-11	1603	Thu	41848 27163 37281 86557 61331 64161	AM/RDFT	(DSch)
HM01	11435	4-11	1557	Fri	55331 61332 64163 52771 27165 37282	AM/RDFT	(RR2)
HM01	11435	4-11	1558	Fri	52771 27165 37282 55331 61332 64161	AM/RDFT	(DSch)
HM01	11435	4-11	1627	Fri	55331 61332 64163 52771 27165 37282	AM/RDFT	(RR2)
HM01	11530	4-11	1700	Fri	55331 61332 64163 52771 27165 37282	AM/RDFT	(RR2)
HM01	14375	5-11	0607	Sat	55331 61332 64163 52771 27165 37282	AM/RDFT	(AB-B)
HM01	11435	5-11	1557	Sat	55331 61333 64164 52772 27166 37283	AM/RDFT	(RR2)
HM01	9330	6-11	0657	Sun	55331 61333 64164 52772 27166 37283	AM	(AB)
HM01	9065	6-11	0800	Sun	55331 61333 64164 52772 27166 37283	AM	(AB)
HM01	11635	6-11	2057	Sun	Radio Habana Cuba; off abruptly into 5th group. 55332 61334 64165 52773 27167 37284	AM/RDFT	(RR2)
HM01	11435	7-11	1558	Mon	No carrier, abruptly into 5th group and data. Stops and restarts at 1603z: 55333 61335 64166 52774 25041 37285	AM/RDFT	(RR2)
HM01	11635	7-11	2100	Mon	Carrier on & off a few times then at 2103z: 55333 61335 64166 52774 25041 37285	AM/RDFT	(RR2)
HM01	11530	8-11	1657	Tue	55334 61336 64167 52775 25041 37286	AM/RDFT	(RR2)
HM01	9065	9-11	0835	Wed	55334 61336 64167 52775 25041 37286	AM/RDFT	(AB)
HM01	9155	9-11	0957	Wed	55334 61336 64167 52775 25041 37286	AM/RDFT	(AB)
HM01	11435	9-11	1603	Wed	Abruptly on with groups & data - strange 3rd group - repeat of same group that started 02-11 and in same position: 55335 61337 64161 52776 25042 37287	USB	(RR2)
HM01	13435	10-11	0657	Thu	55335 61337 64161 52776 25042 37287	AM/RDFT	(AB)
HM01	11435	10-11	1603	Thu	i.p. 55336 61338 64161 52777 25043 30511	AM/RDFT	(RR2)
HM01	11435	10-11	1706	Thu	25043 30511 55336 61338 64161 52777	AM/RDFT	(DSch)
HM01	16180	10-11	2057	Thu	55332 61338 64161 52777 25043 30511	AM/RDFT	(RL)
HM01	11435	11-11	1600	Fri	55337 57371 64162 52778 25044 30511	AM/RDFT	(RR2)
HM01	10715	11-11	2213	Fri	55337 57371 64162 52778 25044 30511	AM/RDFT	(BW3)
HM01	11435	12-11	1556	Sat	55338 57371 64163 71831 25045 30512	AM/RDFT	(RR2)
HM01	11530	12-11	1659	Sat	25045 30512 55338 57371 64163 71831	AM/RDFT	(DSch)



HM01	11435	13-11	1552	Sun	NO carrier till 1603z then into 3rd group & data then stop and nothing, twice, then start with 3rd group & data 71571 57372 64164 71831 25046 30513	AM/RDFT	(RR2)
HM01	11530	13-11	1655	Sun	25046 30513 71571 57372 64164 71831	AM/RDFT	(DSch)
HM01	11635	13-11	1800	Sun	i.p.	AM/RDFT	(LLj)
HM01	10715	13-11	2157	Sun	25046 30513 71571 57372 64164 71831	AM/RDFT	(RL)
HM01	11435	14-11	1558	Mon	71571 57373 64165 71832 25047 30514	AM/RDFT	(RR2)
HM01	11435	15-11	1558	Tue	71572 57374 64166 71833 25048 30515	AM/RDFT	(RR2)
HM01	11435	16-11	1558	Wed	71573 57375 64167 71834 23551 30516	AM/RDFT	(RR2)
HM01	11530	16-11	1707	Wed	23551 30516 71573 57375 64167 71834	AM/RDFT	(DSch)
HM01	11530	17-11	1700	Thu	23551 30517 71574 57376 64168 71835	AM/RDFT	(DSch)
HM01	11635	17-11	1757	Thu	71574 57376 64168 71835 23551 30517	AM/RDFT	(RR2)
HM01	10345	18-11	0605	Fri	i.p. 71574 57376 64168 71835 23551 30517	AM/RDFT	(AB)
HM01	11530	18-11	1705	Fri	23552 30518 71575 57377 74201 71836	AM/RDFT	(DSch)
HM01	11530	18-11	1705	Fri	71575 57377 74201 71836 23552 30518	AM/RDFT	(RR2)
HM01	11435	19-11	1630	Sat	i.p. 71576 57378 74201 71837 23553 30519	AM/RDFT	(RR2)
HM01	11435	20-11	1558	Sun	71577 55811 74202 71838 23554 63711	AM/RDFT	(RR2)
HM01	11435	21-11	1602	Mon	Abruptly on and into 5th group/data: 71578 55811 74203 88471 23555 63711	AM/RDFT	(RR2)
HM01	11635	21-11	2110	Mon	23555 63711 71578 55811 74203 88471	AM/RDFT	(DSch)
HM01	16180	22-11	2114	Tue	23556 63712 12521 55812 74204 88471	AM/RDFT	(DSch)
HM01	17480	22-11	2157	Tue	12521 55812 74204 88471 23556 63712	AM/RDFT	(RL)
HM01	11435	23-11	1559	Wed	12521 55813 74205 88472 23557 63713	AM/RDFT	(RR2)
HM01	11635	23-11	1836	Wed	23557 63713 12521 55813 74205 88472	AM/RDFT	(DSch)
HM01	11435	24-11	1605	Thu	i.p. 12522 55814 74206 88473 23558 63714	AM/RDFT	(RR2)
HM01	17480	24-11	2157	Thu	12522 55814 74206 88473 23558 63714	AM/RDFT	(RL)
HM01	9155	25-11	0958	Fri	12522 55814 74206 88473 23558 63714	AM/RDFT	(AB)
HM01	11435	25-11	1610	Fri	i.p. 12523 55815 74207 88474 42261 63715	AM/RDFT	(RR2)
HM01	10715	25-11	2241	Fri	42261 63715 12523 55815 74207 88474	AM/RDFT	(DSch)
HM01	11462	26-11	0457	Sat	Short portion of the Cuban National Anthem followed by the id Radio Havana Cuba, then into YL SS 5FGs	AM/RDFT	(CD3)
HM01	11435	26-11	1606	Sat	12524 55816 74208 88475 42261 63716	AM/RDFT	(RR2)
HM01	11635	28-11	1840	Mon	42264 63719 12527 32471 65462 88478	AM/RDFT	(DSch)
HM01	11635	28-11	2058	Mon	12526 32471 65461 88477 42263 63718	AM/RDFT	(RR2)
HM01	11435	29-11	1602	Tue	i.p. 12527 32471 65462 88478 42264 63719	AM/RDFT	(RR2)
HM01	16180	29-11	2057	Tue	12527 32471 65462 88478 42264 63719	AM/RDFT	(RL)
HM01	17480	29-11	2157	Tue	12527 32471 65462 88478 42264 63719	AM/RDFT	(RL)
HM01	11435	30-11	1600	Wed	abruptly into groups and data 12528 32472 65463 72671 42265 42031	AM/RDFT	(RR2)
HM01	11530	30-11	1707	Wed	42265 42031 12528 32472 65463 72671	AM/RDFT	(DSch)
M01	5320	1-11	1800	Tue	197 289 30 = = 33879 624..	CW	(MPJ)
M01	5320	3-11	1800	Thu	197 (no key/gc sent) 31483 85280 66553 ... 24810 68393 13682 = = 337 337 30 30 00000	CW	(AB/MPJ)
M01	4490	3-11	2000	Thu	197 606 30 = = 51919 11350 09038 97725 ... (faded) ... 24994 81226 99783 = = 606 0630 30 30 000 K	CW	(MPJ/ES)
M01	5320	8-11	1800	Tue	197 (5 mins +) 426 30 427 30 = = 19414 27176 ii ii 11896 80738 09137 ... (faded) 46855 = = 427 30 0 = = 427 30 000 (nothing further)	CW	(MPJ/ES)
M01	4490	8-11	2000	Tue	971 604 30 == 604 30 = = 36884 44051 48452 07649 20299 ... 70254 88812 63063 58831 41842 657 == 604 30 000 == 604 30 000 (many mistakes)	CW	(MPJ)
M01	5320	10-11	1800	Thu	197 193 30 = = 91690 93270 74476 42200 12832 ... 80411 36172 38552 41892 89874 = = 193 30 000	CW	(MPJ)
M01	4490	10-11	2000	Thu	197 611 30 = = 05335 59065 ..80. 44020 94606 ... 37294 83991 48606 97157 66635 = = 611 30 000	CW	(MPJ)
M01	5320	15-11	1800	Tue	197 329 30 = = 03185 3....	CW	(MPJ)

<b>M01</b>	4490	15-11	2000	Tue	197 891 30 = = 89544 90502 31375 60612 69536 ... 81774 75648 14510 05150 63001 = = 981 30 0000 (4 0's instead of 5)	CW	(MPJ)
<b>M01</b>	5082	17-11	1800	Thu	288 30 197 (rptd) 288 30 288 30 30 = = 67742 70767 76529 36613 (36683) 46379 ... 02364 032.1 592.. 73871 = = 288 288 30 30 000	CW	(MPJ)
<b>M01</b>	5810	19-11	1500	Sat	197 9.5 30 = = 82870 ..595 00929 77194 (?) 02591 ...	CW	(MPJ/ES)
<b>M01</b>	5320	22-11	1800	Tue	197 131 30 = = 54422 92210 76880 38086 55376 ... 54893 42770 38411 40639 07918 = = 131 131 000 (as sent)	CW	(MPJ)
<b>M01</b>	4490	22-11	2000	Tue	197 871 30 = = 36766 90884 33842 26627 58851 ... 54063 ... 99644 ... 871 30 000	CW	(MPJ)
<b>M01</b>	4490	24-11	2000	Thu	197 513 30 = = = 96720 41317 29395 77424 82892 ... 17645 75222 11929 35286 56682 = = = = 513 30 000	CW	(MPJ)
<b>M01</b>	5813	26-11	1500	Sat	197 457 30 = = ... 26243 01047 43654 ... 92205 09341 88832 39212 84653 = = 457 30 000	CW	(MPJ)
<b>M01</b>	5320	29-11	1801	Tue	197 215 30 = = 32460 24933 23120 49887 42142 ... 71036 24854 27590 29373 0937301 ... = = = = 215 30 000. 5FGs and 4FGs. Many mistakes.	CW	(MPJ)
<b>M01b</b>	2470	3-11	1932	Thu	910 709 33 = = 97968 32... 113.. 47658 66876 87152 ... 77917 00531 93493 .6270 52464 = = 709 33 000 //3545 kHz	MCW	(MPJ/ES)
<b>M01b</b>	2470	3-11	1932	Thu	910 709 33 97968 //3545	CW	(HFD)
<b>M01b</b>	3545	3-11	1932	Thu	910 709 33 = = 97968 32... 113.. 47658 66876 87152 ... 77917 00531 93493 .6270 52464 = = 709 33 000 //2470 kHz	MCW	(MPJ/ES)
<b>M01b</b>	3545	3-11	1932	Thu	910 709 33 97968 //2470	CW	(HFD)
<b>M01b</b>	2485	3-11	2042	Thu	382 709 33 97968 //3160	CW	(HFD)
<b>M01b</b>	2485	3-11	2042	Thu	382 709 33 = = 97968 ..... 47658 66876 87152 ... //3160 kHz	MCW	(MPJ/ES)
<b>M01b</b>	3160	3-11	2042	Thu	382 709 33 97968 //2485	CW	(HFD)
<b>M01b</b>	3160	3-11	2042	Thu	382 709 33 = = 97968 ..... 47658 66876 87152 ... //2485 kHz	MCW	(MPJ/ES)
<b>M01b</b>	2651	4-11	2002	Fri	866 709 33 97967 //3195	CW	(HFD)
<b>M01b</b>	3195	4-11	2002	Fri	866 709 33 97967 //2651	CW	(HFD)
<b>M01b</b>	2470	10-11	1932	Thu	910 709 33 = = 97968 57114 47658 66876 87152 ... 77917 00531 93493 26270 52464 = = 709 33 000 //3545 kHz	MCW	(MPJ)
<b>M01b</b>	3545	10-11	1932	Thu	910 709 33 = = 97968 57114 47658 66876 87152 ... 77917 00531 93493 26270 52464 = = 709 33 000 //2470 kHz	MCW	(MPJ)
<b>M01b</b>	3160	10-11	2042	Thu	392 709 33 = = 97968 57114 47658 66876 87152 ... 77917 00531 93493 26270 52464 = = 709 33 000	MCW	(MPJ)
<b>M01b</b>	2655	11-11	2002	Fri	866 709 33 = = 97968 57114 47658 66876 87152 ... 77917 00531 93493 26270 52464 = = 709 33 000 //3195 kHz	MCW	(MPJ)
<b>M01b</b>	3195	11-11	2002	Fri	866 709 33 = = 97968 57114 47658 66876 87152 ... 77917 00531 93493 26270 52464 = = 709 33 000 //2655 kHz	MCW	(MPJ)
<b>M01b</b>	2435	14-11	1910	Mon	853 709 33 = = 97968 57114 47658 66876 87152 ... 77917 00531 93493 26270 52464 = = 709 33 000 //3520 kHz	MCW	(MPJ)
<b>M01b</b>	3520	14-11	1910	Mon	853 709 33 = = 97968 57114 47658 66876 87152 ... 77917 00531 93493 26270 52464 = = 709 33 000 //2435 kHz	MCW	(MPJ)

<b>M01b</b>	2425	14-11	2015	Mon	375 709 33 == 97968 57114 47658 66876 87152 ... 77917 00531 93493 26270 52464 == 709 33 000 //3205 kHz	MCW	(MPJ)
<b>M01b</b>	3205	14-11	2015	Mon	375 709 33 == 97968 57114 47658 66876 87152 ... 77917 00531 93493 26270 52464 == 709 33 000 //2425 kHz	MCW	(MPJ)
<b>M01b</b>	2655	18-11	2002	Fri	866 709 33 == 97968 57114 47658 66876 87152 ... 77917 00531 93493 26370 (26270?) 52454 == 709 33 000 //3195 kHz	MCW	(MPJ)
<b>M01b</b>	3195	18-11	2002	Fri	866 709 33 == 97968 57114 47658 66876 87152 ... 77917 00531 93493 26370 (26270?) 52454 == 709 33 000 //2655 kHz	MCW	(MPJ)
<b>M01b</b>	2345	21-11	1910	Mon	853 709 33 == 97968 57114 ...58 6627. ... 127.0 30224 ... ...70 52464 == 709 33 000 //3520 kHz	MCW	(MPJ)
<b>M01b</b>	3520	21-11	1910	Mon	853 709 33 == 97968 57114 ...58 6627. ... 127.0 30224 ... ...70 52464 == 709 33 000 //2435 kHz	MCW	(MPJ)
<b>M01b</b>	2470	24-11	1932	Thu	910 709 33 == 97968 57114 47658 66876 87152 ... 77917 00531 93493 26270 52464 == 709 33 000 //3545 kHz	MCW	(MPJ)
<b>M01b</b>	3545	24-11	1932	Thu	910 709 33 == 97968 57114 47658 66876 87152 ... 77917 00531 93493 26270 52464 == 709 33 000 //2470 kHz	MCW	(MPJ)
<b>M01b</b>	2485	24-11	2052	Thu	382 709 33 == 97968 57114 47658 66876 87152 ... 77917 00531 93493 26270 52464 == 709 33 000 //3160 kHz	MCW	(MPJ)
<b>M01b</b>	3160	24-11	2052	Thu	382 709 33 == 97968 57114 47658 66876 87152 ... 77917 00531 93493 26270 52464 == 709 33 000 //2485 kHz	MCW	(MPJ)
<b>M01b</b>	2655	25-11	2002	Fri	866 709 33 == 97968 57114 47658 66876 87152 ... 77917 00531 93493 26270 52464 == 709 33 000 //3195 kHz	MCW	(MPJ)
<b>M01b</b>	3195	25-11	2002	Fri	866 709 33 == 97968 57114 47658 66876 87152 ... 77917 00531 93493 26270 52464 == 709 33 000 //2655 kHz	MCW	(MPJ)
<b>M01b</b>	2435	28-11	1910	Mon	853 709 33 == 97968 57114 47658 66876 87152 ... 77917 00531 93493 26270 52464 == 709 33 000 //3520 kHz	MCW	(MPJ)
<b>M01b</b>	3520	28-11	1910	Mon	853 709 33 == 97968 57114 47658 66876 87152 ... 77917 00531 93493 26270 52464 == 709 33 000 //2435 kHz	MCW	(MPJ)
<b>M08a</b>	7555	8-11	2000	Tue	M08a mixing with B02a. Transmitter problems	CW	(qsr711/PW 2)
<b>M08a</b>	7554	8-11	2033	Tue	Bad keying. Uncopy	CW	(DSch)
<b>M08a</b>	7554	9-11	2033	Wed	Bad keying. Rechecked at 2020z, i.p. UDGD TTTGI NTDGA ITAWW GWDNI. Then into probable 3rd msg GRTAN. Sends VA at the end	CW	(DSch)
<b>M08a</b>	8097	10-11	1357	Thu	i.p.	CW	(AB-USA)
<b>M08a</b>	7554	10-11	2000	Thu	Mixing with V02a	CW	(qsr711)
<b>M08a</b>	7554	10-11	2022	Thu	Mixing with V02a	CW	(DSch)
<b>M08a</b>	7555	15-11	1958	Tue	WITIA ITDAN UUWWN Mixed with V02a	CW	(PW2)
<b>M08a</b>	7555	15-11	2000	Tue	M08a mixing with V02a	CW	(qsr711/PW 2)
<b>M08a</b>	7554	16-11	2004	Wed	Did not hear a callup. Appeared to go right into text	CW	(DSch)
<b>M08a</b>	7555	24-11	2000	Thu	M08a mixing with V02a	CW	(qsr711/PW 2)
<b>M08a</b>	8010	30-11	2303	Wed	i.p.	CW	(SHA)
<b>M08a</b>	8009	30-11	2311	Wed	i.p. DNNUN UWTNR TNTID ... AR AR AR SK	CW	(CP2)



<b>M12</b>	8053	1-11	0800	Tue	816 1 5916 60 87353 87927 ..... 45607 64831 000 000	CW	(ES)
<b>M12</b>	9178	1-11	0820	Tue	816 1 5916 60 87353 87927 ..... 45607 64831 000 000	CW	(ES)
<b>M12</b>	10287	1-11	0840	Tue	816 1 5916 60 87353 87927 ..... 45607 64831 000 000	CW	(ES)
<b>M12</b>	10250	1-11	1120	Tue	Unscheduled txm i.p. ??? ?? 23 38674 852?1 05758 ... 82311 28881 20725 000 000	CW	(qsr711)
<b>M12</b>	7931	1-11	2020	Tue	257 1 3216 92 56211 88261 04726 48901 75969 ... 29880 81304 72154 66590 87232 000 000	CW	(MPJ)
<b>M12</b>	6904	1-11	2040	Tue	257 1 3216 92 56211 88261 04726 48901 75969 ... 29880 81304 72154 66590 87232 000 000	CW	(MPJ)
<b>M12</b>	16296	2-11	1400	Wed	273 1 3967 107 38316 25979 ..... 05417 87806 000 000	CW	(ES)
<b>M12</b>	14796	2-11	1420	Wed	273 1 3967 107 38316 25979 ..... 05417 87806 000 000	CW	(ES)
<b>M12</b>	13396	2-11	1440	Wed	273 1 3967 107 38316 25979 ..... 05417 87806 000 000	CW	(ES)
<b>M12</b>	9176	2-11	1800	Wed	257 1 3453 148 76168 44893 11723 64841 14476 ... 34216 22475 41216 67508 93887 000 000	CW	(MPJ/HFD)
<b>M12</b>	7931	2-11	1820	Wed	257 1 3453 148 76168 44893 11723 64841 14476 ... 34216 22475 41216 67508 93887 000 000	CW	(MPJ/HFD)
<b>M12</b>	6904	2-11	1840	Wed	257 1 3453 148 76168 44893 11723 64841 14476 ... 34216 22475 41216 67508 93887 000 000	CW	(MPJ)
<b>M12</b>	8047	2-11	1900	Wed	463 1 6379 145 86350 52645 67139 43747 15380 ... 51460 18562 84009 83577 56468 000 000	CW	(MPJ)
<b>M12</b>	6802	2-11	1920	Wed	463 1 6379 145 86350 52645 67139 43747 15380 ... 51460 18562 84009 83577 56468 000 000	CW	(MPJ)
<b>M12</b>	5788	2-11	1940	Wed	463 1 6379 145 86350 52645 67139 43747 15380 ... 51460 18562 84009 83577 56468 000 000	CW	(MPJ)
<b>M12</b>	15969	3-11	1010	Thu	941 941 941 000	CW	(ES/HFD)
<b>M12</b>	17479	3-11	1030	Thu	941 941 941 000	CW	(ES/HFD)
<b>M12</b>	9162	3-11	1310	Thu	104 104 104 000	CW	(ES)
<b>M12</b>	8062	3-11	1330	Thu	104 104 104 000	CW	(ES/HFD)
<b>M12</b>	9176	3-11	1900	Thu	257 1 7061 128 87069 88404 ..... 67431 40487 000 000	CW	(ES/HFD)
<b>M12</b>	7931	3-11	1920	Thu	257 1 7061 128 87069 88404 ..... 67431 40487 000 000	CW	(ES/HFD)
<b>M12</b>	6904	3-11	1940	Thu	257 1 7061 128 87069 88404 ..... 67431 40487 000 000	CW	(ES/MPJ)
<b>M12</b>	8047	3-11	2000	Thu	463 1 9546 102 70536 31008 ..... 36624 78335 000 000	CW	(ES/HFD)
<b>M12</b>	6802	3-11	2020	Thu	463 1 9546 102 70536 31008 ..... 36624 78335 000 000	CW	(ES/HFD)
<b>M12</b>	5788	3-11	2040	Thu	463 1 9546 102 70536 31008 ..... 36624 78335 000 000	CW	(ES/HFD)
<b>M12</b>	10343	4-11	1200	Fri	124 1 3642 55 37885 35396 ..... 62641 90613 000 000	CW	(ES)
<b>M12</b>	9264	4-11	1220	Fri	124 1 3642 55 37885 35396 ..... 62641 90613 000 000	CW	(ES)
<b>M12</b>	8116	4-11	1240	Fri	124 1 3642 55 37885 35396 ..... 62641 90613 000 000	CW	(ES)
<b>M12</b>	7637	5-11	0600	Sat	612 612 612 000	CW	(AB/ES/HFD)
<b>M12</b>	9137	5-11	0620	Sat	612 612 612 000	CW	(AB/ES/HFD)
<b>M12</b>	9162	5-11	1310	Sat	104 104 104 000	CW	(AB/HFD)
<b>M12</b>	12205	7-11	1100	Mon	973 1	CW	(HFD)
<b>M12</b>	13559	7-11	1120	Mon	973 1	CW	(HFD)
<b>M12</b>	14728	7-11	1140	Mon	973 1	CW	(HFD)

<b>M12</b>	16296	7-11	1400	Mon	273 1 2286 105 06069 82779 00651 80465 16256 ... 52771 19006 45668 84750 98927 000 000	CW	(MPJ)
<b>M12</b>	14976	7-11	1420	Mon	273 1 2286 105 06069 82779 00651 80465 16256 ... 52771 19006 45668 84750 98927 000 000	CW	(MPJ)
<b>M12</b>	13396	7-11	1440	Mon	273 1 2286 105 06069 82779 00651 80465 16256 ... 52771 19006 45668 84750 98927 000 000	CW	(MPJ)
<b>M12</b>	9176	7-11	1800	Mon	257 1 2247 140 92999 71224 67317 50311 87278 ... 24442 25343 55181 25853 61699 000 000	CW	(MPJ)
<b>M12</b>	8047	7-11	1810	Mon	463 1 3927 118 76631 58710 93156 13417 12428 ... 19407 35023 232.. 87612 70080 000 000	CW	(MPJ/HFD)
<b>M12</b>	7931	7-11	1820	Mon	257 1 2247 140 92999 71224 67317 50311 87278 ... 24442 25343 55181 25853 61699 000 000	CW	(MPJ)
<b>M12</b>	6802	7-11	1830	Mon	463 1 3927 118 76631 58710 93156 13417 12428 ... 19407 35023 232.. 87612 70080 000 000	CW	(MPJ/HFD)
<b>M12</b>	6904	7-11	1840	Mon	257 1 2247 140 92999 71224 67317 50311 87278 ... 24442 25343 55181 25853 61699 000 000	CW	(MPJ)
<b>M12</b>	5788	7-11	1850	Mon	463 1 3927 118 76631 58710 93156 13417 12428 ... 19407 35023 232.. 87612 70080 000 000	CW	(MPJ/HFD)
<b>M12</b>	4537	7-11	2150	Mon	975 1 7288 124 ...	CW	(faux)
<b>M12</b>	6937	7-11	2210	Mon	975 1 7288 124 ...	CW	(faux)
<b>M12</b>	8053	8-11	0800	Tue	816 1 2488 53 95650 16603 ..... 75351 93484 000 000	CW	(ES)
<b>M12</b>	9178	8-11	0820	Tue	816 1 2488 53 95650 16603 ..... 75351 93484 000 000	CW	(ES)
<b>M12</b>	9178	8-11	0820	Tue	816 2488 53 95650 16603 81607 95455 ...	CW	(AB)
<b>M12</b>	10287	8-11	0840	Tue	816 1 2488 53 95650 16603 ..... 75351 93484 000 000	CW	(ES)
<b>M12</b>	16296	9-11	1400	Wed	273 1 2286 105 06069 82779 00651 80465 16257 ... 52771 19006 45668 84750 98927 000 000	CW	(MPJ/ES)
<b>M12</b>	14796	9-11	1420	Wed	273 1 2286 105 06069 82779 00651 80465 16257 ... 52771 19006 45668 84750 98927 000 000	CW	(MPJ/ES)
<b>M12</b>	13396	9-11	1440	Wed	273 1 2286 105 06069 82779 00651 80465 16257 ... 52771 19006 45668 84750 98927 000 000	CW	(MPJ/ES)
<b>M12</b>	9176	9-11	1800	Wed	257 1 6914 135 84845 26319 22773 63546 68469 ... 53965 12308 53910 95180 90674 000 000	CW	(MPJ)
<b>M12</b>	7931	9-11	1820	Wed	257 1 6914 135 84845 26319 22773 63546 68469 ... 53965 12308 53910 95180 90674 000 000	CW	(MPJ)
<b>M12</b>	6904	9-11	1840	Wed	257 1 6914 135 84845 26319 22773 63546 68469 ... 53965 12308 53910 95180 90674 000 000	CW	(MPJ)
<b>M12</b>	8047	9-11	1900	Wed	463 1 7534 145 16195 54266 44368 92188 89140 ... 12113 83548 62408 47687 47956 000 000	CW	(MPJ)
<b>M12</b>	6802	9-11	1920	Wed	463 1 7534 145 16195 54266 44368 92188 89140 ... 12113 83548 62408 47687 47956 000	CW	(MPJ)
<b>M12</b>	5788	9-11	1940	Wed	463 1 7534 145 16195 54266 44368 92188 89140 ... 12113 83548 62408 47687 47956 000	CW	(MPJ)
<b>M12</b>	15969	10-11	1010	Thu	941 1 1877 95 96114 55093 ..... 13320 18411 000 000	CW	(ES)
<b>M12</b>	17479	10-11	1030	Thu	941 1 1877 95 96114 55093 ..... 13320 18411 000 000	CW	(ES)
<b>M12</b>	18169	10-11	1050	Thu	941 1 1877 95 96114 55093 ..... 13320 18411 000 000	CW	(ES)
<b>M12</b>	9162	10-11	1310	Thu	104 1 7551 113 28978 57011 65527 26150 49806 ... 93039 43851 20728 23767 84584 000	CW	(MPJ/ES)
<b>M12</b>	8062	10-11	1330	Thu	104 1 7551 113 28978 57011 65527 26150 49806 ... 93039 43851 20728 23767 84584 000	CW	(MPJ/ES)
<b>M12</b>	7462	10-11	1350	Thu	104 1 7551 113 28978 57011 65527 26150 49806 ... 93039 43851 20728 23767 84584 000	CW	(MPJ/ES)
<b>M12</b>	11435	10-11	1800	Thu	938 1 7580 148 95281 72178 19136 28404 81644 ... 57658 26103 49262 42767 05683 000 000	CW	(MPJ)

<b>M12</b>	10598	10-11	1820	Thu	938 1 7580 148 95281 72178 19136 28404 81644 ... 57658 26103 49262 42767 05683 000 000	CW	(MPJ)
<b>M12</b>	9327	10-11	1840	Thu	938 1 7580 148 95281 72178 19136 28404 81644 ... 57658 26103 49262 42767 05683 000 000	CW	(MPJ)
<b>M12</b>	9176	10-11	1900	Thu	257 1 4822 125 88940 35122 58437 37761 52542 ... 61235 02126 08372 84050 37452 000 000	CW	(MPJ)
<b>M12</b>	7931	10-11	1920	Thu	257 1 4822 125 88940 35122 58437 37761 52542 ... 61235 02126 08372 84050 37452 000 000	CW	(MPJ)
<b>M12</b>	6904	10-11	1940	Thu	257 1 4822 125 88940 35122 58437 37761 52542 ... 61235 02126 08372 84050 37452 000 000	CW	(MPJ)
<b>M12</b>	10343	11-11	1200	Fri	124 1 7853 50 05708 31056 21788 ... 32650 26464 91795 000 000	CW	(MPJ/ES)
<b>M12</b>	9264	11-11	1220	Fri	124 1 7853 50 05708 31056 21788 ... 32650 26464 91795 000 000	CW	(MPJ/ES)
<b>M12</b>	8116	11-11	1230	Fri	124 1 7853 50 05708 31056 21788 ... 32650 26464 91795 000 000	CW	(MPJ/ES)
<b>M12</b>	7637	12-11	0600	Sat	612 612 612 000	CW	(AB/ES)
<b>M12</b>	9137	12-11	0620	Sat	612 612 612 000	CW	(AB/ES)
<b>M12</b>	9162	12-11	1310	Sat	104 104 104 000	CW	(MPJ)
<b>M12</b>	8062	12-11	1330	Sat	104 104 104 000	CW	(MPJ)
<b>M12</b>	16296	14-11	1400	Mon	273 1 4181 225 87859 01209 24944 72718 08513 ... 00593 28690 32045 78938 69941 000 000	CW	(MPJ)
<b>M12</b>	14796	14-11	1420	Mon	273 1 4181 225 87859 01209 24944 72718 08513 ... 00593 28690 32045 78938 69941 000 000	CW	(MPJ)
<b>M12</b>	13396	14-11	1440	Mon	273 1 4181 225 87859 01209 24944 72718 08513 ... 00593 28690 32045 78938 69941 000 000	CW	(MPJ)
<b>M12</b>	8046	14-11	1810	Mon	463 1 6897 115 48384 75210 01621 30192 26425 ... 38624 89728 83607 81218 63414 000 000	CW	(MPJ)
<b>M12</b>	6802	14-11	1830	Mon	463 1 6897 115 48384 75210 01621 30192 26425 ... 38624 89728 83607 81218 63414 000 000	CW	(MPJ)
<b>M12</b>	5788	14-11	1850	Mon	463 1 6897 115 48384 75210 01621 30192 26425 ... 38624 89728 83607 81218 63414 000 000	CW	(MPJ)
<b>M12</b>	16296	16-11	1400	Wed	273 1 4181 225 87859 01209 24944 72718 08513 ... 00593 28690 32045 78938 69941 000 000	CW	(MPJ/ES)
<b>M12</b>	14796	16-11	1420	Wed	273 1 4181 225 87859 01209 24944 72718 08513 ... 00593 28690 32045 78938 69941 000 000	CW	(MPJ/ES)
<b>M12</b>	13396	16-11	1440	Wed	273 1 4181 225 87859 01209 24944 72718 08513 ... 00593 28690 32045 78938 69941 000 000	CW	(MPJ/ES)
<b>M12</b>	6904	16-11	1820	Wed	257 1 ...	CW	(MPJ)
<b>M12</b>	7931	16-11	1820	Wed	(257 1) ... (Missed callup) 88927 51048 13330 27375 55404 ... .7341 5950. .4933 9.968 82067 000 000	CW	(MPJ)
<b>M12</b>	6801	16-11	1920	Wed	463 1 28.6 147 10031 .8971 26836 92831 37177 ... 42047 00384 34403 18639 33170 000 000	CW	(MPJ)
<b>M12</b>	5788	16-11	1940	Wed	463 1 28.6 147 10031 .8971 26836 92831 37177 ... 42047 00384 34403 18639 33170 000 000	CW	(MPJ)
<b>M12</b>	15969	17-11	1010	Thu	941 941 941 000	CW	(ES)
<b>M12</b>	17479	17-11	1030	Thu	941 941 941 000	CW	(ES)
<b>M12</b>	7931	17-11	1920	Thu	257 1 2856 130 63940 12653 08.83 96383 741.. (into noise) ... 87873 66897 210.. 42514 2..7. .... 000 000	CW	(MPJ)
<b>M12</b>	7637	19-11	0600	Sat	612 612 612 000	CW	(ES)
<b>M12</b>	7637	19-11	0600	Sat	612 612 612 000	CW	(AB/ES)
<b>M12</b>	9137	19-11	0620	Sat	612 612 612 000	CW	(ES)
<b>M12</b>	9137	19-11	0620	Sat	612 612 612 000	CW	(AB/ES)
<b>M12</b>	9162	19-11	1310	Sat	104 1 732 113 34901 79747 ..... 22739 25387 000 000	CW	(ES)
<b>M12</b>	8062	19-11	1330	Sat	104 1 732 113 34901 79747 ..... 22739 25387 000 000	CW	(ES)

<b>M12</b>	7462	19-11	1350	Sat	104 1 732 113 34901 79747 ..... 22739 25387 000 000	CW	(ES)
<b>M12</b>	16296	21-11	1400	Mon	273 273 273 000	CW	(MPJ)
<b>M12</b>	8047	21-11	1810	Mon	463 1 4706 121 09665 91750 45205 49393 57723 ... 98810 07241 60003 34192 13514 000 000	CW	(MPJ)
<b>M12</b>	6802	21-11	1830	Mon	463 1 4706 121 09665 91750 45205 49393 57723 ... 98810 07241 60003 34192 13514 000 000	CW	(MPJ)
<b>M12</b>	5788	21-11	1850	Mon	463 1 4706 121 09665 91750 45205 49393 57723 ... 98810 07241 60003 34192 13514 000 000	CW	(MPJ)
<b>M12</b>	16296	23-11	1400	Wed	273 273 273 000	CW	(MPJ/ES)
<b>M12</b>	14796	23-11	1420	Wed	273 273 273 000	CW	(MPJ/ES)
<b>M12</b>	6802	23-11	1920	Wed	463 1 4023 136 06058 ...0. .... 69097 (uncopiable).	CW	(AB)
<b>M12</b>	5429	23-11	2200	Wed	460 460 460 000	CW	(AB)
<b>M12</b>	4629	23-11	2220	Wed	460 460 460 000	CW	(AB)
<b>M12</b>	15969	24-11	1010	Thu	941 941 941 000	CW	(ES)
<b>M12</b>	17479	24-11	1030	Thu	941 941 941 000	CW	(ES)
<b>M12</b>	9162	24-11	1310	Thu	104 104 104 000	CW	(AB/MPJ/ES)
<b>M12</b>	8062	24-11	1330	Thu	104 104 104 000	CW	(AB/MPJ/ES)
<b>M12</b>	6904	24-11	1940	Thu	257 1 7901 120 22532 33728 22136 87225 29074 ... 12345 95513 59585 18353 51.52 000 000	CW	(MPJ)
<b>M12</b>	7637	26-11	0600	Sat	612 612 612 000	CW	(AB)
<b>M12</b>	9137	26-11	0620	Sat	612 612 612 000	CW	(AB)
<b>M12</b>	16296	28-11	1400	Mon	273 273 273 000	CW	(MPJ)
<b>M12</b>	8047	28-11	1810	Mon	463 1 7530 128 53271 01752 79871 50204 44509 ... 98873 33637 (33617) 44091 04814 31102	CW	(MPJ)
<b>M12</b>	6802	28-11	1830	Mon	463 1 7530 128 53271 01752 79871 50204 44509 ... 98873 33637 (33617) 44091 04814 31102	CW	(MPJ)
<b>M12</b>	5788	28-11	1850	Mon	463 1 7530 128 53271 01752 79871 50204 44509 ... 98873 33637 (33617) 44091 04814 31102	CW	(MPJ)
<b>M12</b>	7931	30-11	1820	Wed	257 1 61.. 1,, ... 53501 ...51 (quite uncopiable)	CW	(MPJ)
<b>M12</b>	6904	30-11	1840	Wed	257 1 6152 141 53501 01351 30844 95934 02357 ... 26898 83618 81224 33163 91868 000 000	CW	(MPJ)
<b>M12</b>	8047	30-11	1900	Wed	463 1 .770 136 24323 ..... 00478 ... (uncopiable)	CW	(MPJ)
<b>M12</b>	5788	30-11	1940	Wed	463 1 3770 136 24324 32138 40477 60728 40292 ... 57514 57893 16373 25649 99379 000 000	CW	(MPJ)
<b>M14</b>	10423	1-11	1305	Tue	i.p. 51829 70468 = 149 56 00000	CW	(ES)
<b>M14</b>	3721	1-11	1600	Tue	361 361 361 00000	MCW	(MPJ/ES)
<b>M14</b>	8167	3-11	1343	Thu	i.p. 17345 49682 32778 22708 06657 33074 99438 32149 72742 48813 59273 = 726 53 00000	CW	(ES)
<b>M14</b>	5374	4-11	1700	Fri	382 382 382 00000	CW	(AB/MPJ/HF D)
<b>M14</b>	4970	4-11	1800	Fri	382 382 382 00000	CW	(AB/MPJ/HF D)
<b>M14</b>	5430	5-11	0800	Sat	171 (R) 490 490 91 91 52378 52378 90126 90126 2876 42876 19097 ... 00647 0067 73809 73809 6281 6281 3265 32465 490 50 91 91 00000 Errors	CW	(AB-RUS)
<b>M14</b>	5560	5-11	0900	Sat	171 (R) 22 490 490 91 51 0 52378 52378 90126 90126 42876 2876 19097 ... 00647 0067 73809 73805 6281 6281 03265 32465 90 50 91 91 00000 Errors	CW	(AB-RUS)
<b>M14</b>	10423	8-11	1300	Tue	058 194 58 = 67555 59509 ..... 14531 91472 00000	CW	(ES)
<b>M14</b>	4636	8-11	1820	Tue	186 518 86 6.... (uncopiable) ... ..093 57286 61220 518 86 00000	MCW	(MPJ)
<b>M14</b>	4761	9-11	1920	Wed	748 (stops) 22 518 518 86 86 3298 3258 53900 53500 12865 21208 51810 51717 ... 82310 0253 2093 57286 61220 518 518 86 86 00000 (Many errors)	MCW	(MPJ)
<b>M14</b>	17458	10-11	0930	Thu	617 617 617 00000	CW	(ES)

<b>M14</b>	8167	10-11	1330	Thu	058 367 52 = 11427 14585 ..... 29525 44344 00000. Restarted after group 50 and resumed from group 46 till the end of the message	CW	(ES)
<b>M14</b>	3721	15-11	1600	Tue	361 361 361 00000	CW	(ES)
<b>M14</b>	5374	18-11	1700	Fri	382 382 382 0000	CW	(AB/MPJ)
<b>M14</b>	4976.1	18-11	1712	Fri	i.p. 99227 7. J81T9 20488 86777 88673 87406 6211 (Gearing up for 1800z sked)	CW	(MPJ)
<b>M14</b>	4975	18-11	1800	Fri	382 382 382 0000	CW	(AB/MPJ)
<b>M14</b>	10423	22-11	1300	Tue	058 129 54 = 67405 95588 ..... 18245 23123 00000	CW	(ES)
<b>M14</b>	10755	22-11	1330	Tue	Unscheduled transmission 975 146 52 = = 84782 96771 73738 ... 76077 33591 57625 146 52 00000	CW	(qsr711)
<b>M14</b>	4636	22-11	1820	Tue	186 2222 (x1) 518 86 3258 53500 12865 21208 (mixed 5 & 4LGs) ... 6350 82310 2053 57286 61220 518 86 00000	MCW	(MPJ)
<b>M14</b>	4762	23-11	1920	Wed	748 2222 518 86 3258 53500 12865 ... 63712 82310 27... 57286 61220 518 86 00000	CW	(AB/MPJ)
<b>M14</b>	10423	24-11	1300	Thu	058 (R) 746 746 58 58 = = 92955 96527 24140 ... 58572 30883 43775 = = 746 746 58 58 00000 Stops and restarts after group 30	CW	(AB)
<b>M14</b>	8167	24-11	1330	Thu	058 (R) 746 746 58 58 = = 92955 96527 24140 ... 58572 30883 43775 = = 746 746 58 58 00000 Stops and restarts after group 52	CW	(AB/ES)
<b>M14</b>	17458	25-11	0930	Fri	617 617 617 617 00000	CW	(AB)
<b>M21</b>	4865.5	19-11	1549	Sat	=991850??8????? =21198901050800 =1119944247749 =11199450247950 =21198901040800 =991852??8?????	CW	(WP3)
<b>M21</b>	5323	21-11	1608	Mon	=991908??0????? =991909??0????? =991910??0?????	CW	(JPL-NZL)
<b>M21</b>	2802	27-11	2146	Sun	=990046??0????? =990047??0?????	CW	(JPL-KOR)
<b>M22</b>	6607	4-11	1705	Fri	VVV DE 4XZ 4XZ = = AR AR NW QTC 1 NR 211 = = NR 211 JR V GA1R 135140 QW1R GR 44 = = QRQRQ SEFLA JNUAQ OIOKA ECXIG ...	CW	(AB)
<b>M24</b>	9463	23-11	1200	Wed	801 297 53 = 74846 42600 63806 ... 11782 57638 03252 = 297 53 00000 Stops and restarts several times	CW	(ES)
<b>M32</b>	14411	9-11	1218	Wed	XXX XXX RFH73 RFH73 43870 14960 ATAMAN 8245 7933	CW	(JU)
<b>M32</b>	10933	17-11	1037	Thu	RGT77: XXX XXX WEGI WEGI 89670 UPUQENIE 3020 2798	CW	(JU)
<b>M32</b>	14411	17-11	1043	Thu	RDL: XXX XXX WEGI WEGI 81454 89670 UPUQENIE 3020 2798	CW	(JU)
<b>M32</b>	14411	17-11	1122	Thu	RDL: XXX XXX WEGI WEGI 36559 76470 SEKRETARX 9422 4919	CW	(JU)
<b>M32</b>	7788	21-11	1028	Mon	i.p. XB4F (x3) DE TG1W (x2) K. 4TVM (x3) DE TG1W (x2) K. D2MD (x3) DE TG1W (x2) QTC K. D2MD (x3) DE TG1W (x2) QTC 556 44 21 1306 556 = 233 =	CW	(JPL-NZL)
<b>M32a</b>	12464	5-11	0555	Sat	RMCW: Russian Navy Ship Donuzlav: rcv de rmcw qys8 08692 456791 iwanow 1300 08692 457318 rusin 1305 08692 713259 semenak 1310 ...	CW	(WP3)
<b>M32a</b>	12464	5-11	0602	Sat	Russian Navy Ship Donuzlav. RCV DE RMCW QYS8 08692 672392 ZAHAROW 1400 ... 08692 450006 GLUHOW 1420 K. RMCW C K	CW	(WP3)
<b>M32a</b>	8345	5-11	0621	Sat	Russian Navy. RMP DE RHM81 OK QYT4 QSX 4153 K. QYT4 QSX 5242 K	CW	(WP3)
<b>M32a</b>	6199	18-11	2206	Fri	RLO RLO RLO DE RIT RIT QTC 162 35 19 0058 162 = RADIO PROGNOZ 1916 03003 31512 ...	CW	(JPL-S)
<b>M32a</b>	8816	19-11	0711	Sat	RJF94 RJC38 DE 42233 QQL ULWC 0707 QBD 7800 K. QQM XLMV 0839 SK	CW	(WP3)
<b>M32c</b>	8112	17-11	0720	Thu	W-markers: Russian Air Force Tu-95MS Bear H net	CW	(Tom)



<b>M32c</b>	8112	17-11	0820	Thu	W-markers: Russian Air Force Tu-95MS Bear H net	CW	(AB)
<b>M32c</b>	8112	17-11	0840	Thu	W-markers: Russian Air Force Tu-95MS Bear H net	CW	(AB)
<b>M41</b>	3357.5	2-11	1743	Wed	i.p. 722195 950 3998 9789 1617 0000 1819 K	CW	(F5JBR)
<b>M41</b>	4643.5	16-11	1325	Wed	WV1H 722194 950 2997 3449 1657 3150 1521 RPT 722194 950 2997 3449 1657 3150 1521 WV1H WV1H AR	CW	(F5JBR)
<b>M41</b>	4643.5	16-11	1328	Wed	ZCCF 722194 950 2997 3449 1657 3150 1521 = 722194 950 2997 3449 1657 3150 1521 K	CW	(F5JBR)
<b>M41</b>	4643.5	17-11	1300	Thu	ZZCF 6605 7280 0251 6424 1979 2677 8304 6040 8222 3539 8647 9236 1417 2146 7370 1446 8505 7927 0798 1155 8785 = 8090 9501 6984 1960 2483 0276 9478 4643.5 17-11-2016 1310 M41 CW (F5JBR) ZZCF 9501 99 60182 1617 2180 1500 722194 9501 99601821617 2180 1500 K	CW	(F5JBR)
<b>M41</b>	4788.5	19-11	0627	Sat	i.p. 9917993328120 9917993362524 rtc	CW	(F5JBR)
<b>M41</b>	4788.5	19-11	0709	Sat	VVV WV1H WV1H 722194 990 3998 5776 1287 2260 0908 RPT 722194 990 3998 5776 1287 2260 0908 WV1H WV1H AR	CW	(F5JBR)
<b>M41</b>	4788.5	19-11	0816	Sat	VVV WV1H WV1H 722194 991 2998 5679 1288 2100 1011 RPT 722194 991 2998 5679 1288 2100 1011 WV1H WV1H AR	CW	(F5JBR)
<b>M41</b>	4643.5	19-11	1028	Sat	VVV VVV EA3P EA3P 722194 950 1996 3441 1287 2040 1218 722194 950 1996 3441 1287 2040 1218 K. OLAD R 722194 950 1996 3441 1287 2040 1218 K	CW	(F5JBR)
<b>M41</b>	4643.5	19-11	1105	Sat	VVV VVV VVV EA3P EA3P 009660 855 8541 3125 1796 6081 0051 1500 009660 861 5854 1322 5179 6808100050 0199 6060 1313	CW	(F5JBR)
<b>M42</b>	16156	11-11	1300	Fri	Russian diplo. RYRYRY 11100 70103 48625 11152 04109	Baudot 75/500	(MCO)
<b>M42</b>	10174	16-11	1302	Wed	Russian diplo/intel i.p.	CROWD-36	(ES)
<b>M42</b>	11456	18-11	1212	Fri	Russian diplo/intel i.p.	CROWD-36	(ES)
<b>M42</b>	16241	22-11	1003	Tue	Russian diplo/intel i.p.	CROWD-36	(ES)
<b>M42</b>	14722	22-11	1031	Tue	Russian diplo/intel i.p.	CROWD-36	(ES)
<b>M42</b>	11152	23-11	1101	Wed	Russian diplo/intel i.p.	CROWD-36	(ES)
<b>M42</b>	14786	23-11	1202	Wed	Russian diplo/intel i.p.	CROWD-36	(ES)
<b>M42</b>	10174	23-11	1301	Wed	Russian diplo/intel i.p.	CROWD-36	(ES)
<b>M42b</b>	5803	2-11	0955	Wed	WYGL wkg 1 out station; message in digi mode af- ter QTC1	unid digi	(F5JBR)
<b>M42c</b>	8172	1-11	1940	Tue	Russian intel/diplo. )5761 00000+++++++162	FSK 200/500	(AB/Danix/ MPJ)
<b>M42c</b>	6791	1-11	1950	Tue	Russian intel/diplo. )5761 00000+++++++162	FSK 200/500	(AB/Danix/ MPJ)
<b>M42c</b>	4546	1-11	2000	Tue	Russian intel/diplo. )5761 00000+++++++162	FSK 200/500	(AB/Danix/ MPJ)
<b>M42c</b>	20741	4-11	2230	Fri	Russian diplo/intel via Cuba. Link ID 00116, Date 4th, Serial #49, Groups 136. Header: 11177 00116 76319 04049 01369	FSK 200/500	(Danix-USA)
<b>M42c</b>	18702	4-11	2240	Fri	Russian diplo/intel via Cuba. Link ID 00116, Date 4th, Serial #49, Groups 136. Header: 11177 00116 76319 04049 01369	FSK 200/500	(Danix-USA)
<b>M42c</b>	20374	5-11	1300	Sat	Russian intel/diplo. )5761 00000+++++++162	FSK 200/500	(AB/Danix/H FD)
<b>M42c</b>	18351	5-11	1310	Sat	Russian intel/diplo. )5761 00000+++++++162	FSK 200/500	(AB/Danix/H FD)
<b>M42c</b>	16249	5-11	1320	Sat	Russian intel/diplo. )5761 00000+++++++162	FSK 200/500	(AB/Danix/H FD)
<b>M42c</b>	9247	5-11	1810	Sat	Russian intel/diplo. )5761 00000+++++++162	FSK 200/500	(AB/Danix)
<b>M42c</b>	7762	5-11	1820	Sat	Russian intel/diplo. )5761 00000+++++++162	FSK 200/500	(AB/Danix)

<b>M42c</b>	5216	5-11	1830	Sat	Russian intel/diplo. )5761 00000+++++++162	FSK 200/500	(AB/Danix)
<b>M42c</b>	20741	11-11	2230	Fri	Russian diplo/intel via Cuba. Link ID 00116, Date 11th, Serial #50, Groups 194. Header: 11177 00116 81529 11050 01949	FSK 200/500	(Danix-USA)
<b>M42c</b>	18702	11-11	2240	Fri	Russian diplo/intel via Cuba. Link ID 00116, Date 11th, Serial #50, Groups 194. Header: 11177 00116 81529 11050 01949	FSK 200/500	(Danix-USA)
<b>M42c</b>	20374	12-11	1300	Sat	Russian intel/diplo. )5761 00000+++++++162	FSK 200/500	(AB/Danix/MPJ)
<b>M42c</b>	18351	12-11	1310	Sat	Russian intel/diplo. )5761 00000+++++++162	FSK 200/500	(AB/Danix/MPJ)
<b>M42c</b>	16249	12-11	1320	Sat	Russian intel/diplo. )5761 00000+++++++162	FSK 200/500	(AB/Danix/MPJ)
<b>M42c</b>	9247	12-11	1810	Sat	Russian intel/diplo. )5761 00000+++++++162	FSK 200/500	(AB/Danix/MPJ)
<b>M42c</b>	7762	12-11	1820	Sat	Russian intel/diplo. )5761 00000+++++++162	FSK 200/500	(AB/Danix/MPJ)
<b>M42c</b>	5216	12-11	1830	Sat	Russian intel/diplo. )5761 00000+++++++162	FSK 200/500	(AB/Danix/MPJ)
<b>M42c</b>	20741	18-11	2230	Fri	Russian diplo/intel. Link ID 00116, Date 18th, Serial #51, Groups 184	FSK 200/500	(Danix-USA)
<b>M42c</b>	18702	18-11	2240	Fri	Russian diplo/intel. Link ID 00116, Date 18th, Serial #51, Groups 184	FSK 200/500	(Danix-USA)
<b>M42c</b>	20374	19-11	1300	Sat	Russian intel/diplo. )5761 00000+++++++162	FSK 200/500	(AB/Danix)
<b>M42c</b>	18351	19-11	1310	Sat	Russian intel/diplo. )5761 00000+++++++162	FSK 200/500	(AB/Danix)
<b>M42c</b>	16249	19-11	1320	Sat	Russian intel/diplo. )5761 00000+++++++162	FSK 200/500	(AB/Danix)
<b>M42c</b>	9247	19-11	1810	Sat	Russian intel/diplo. )5761 00000+++++++162	FSK 200/500	(AB/Danix)
<b>M42c</b>	7762	19-11	1820	Sat	Russian intel/diplo. )5761 00000+++++++162	FSK 200/500	(AB/Danix)
<b>M42c</b>	5216	19-11	1830	Sat	Russian intel/diplo. )5761 00000+++++++162	FSK 200/500	(AB/Danix)
<b>M42c</b>	20374	26-11	1300	Sat	Russian intel/diplo. )5761 00000+++++++162	FSK 200/500	(AB-RUS/Danix)
<b>M42c</b>	18351	26-11	1310	Sat	Russian intel/diplo. )5761 00000+++++++162	FSK 200/500	(AB/Danix)
<b>M42c</b>	16249	26-11	1320	Sat	Russian intel/diplo. )5761 00000+++++++162	FSK 200/500	(AB/Danix)
<b>M42c</b>	9247	26-11	1810	Sat	Russian intel/diplo. )5761 00000+++++++162	FSK 200/500	(AB-GRC/Danix)
<b>M42c</b>	7762	26-11	1820	Sat	Russian intel/diplo. )5761 00000+++++++162	FSK 200/500	(AB/Danix)
<b>M42c</b>	5216	26-11	1830	Sat	Russian intel/diplo. )5761 00000+++++++162	FSK 200/500	(AB/Danix)
<b>M42c</b>	12101	28-11	0025	Mon	Russian intel/diplo.	FSK 200/500	(Danix-USA)
<b>M42c</b>	9215	28-11	0035	Mon	Russian intel/diplo.	FSK 200/500	(Danix-USA)
<b>M42c</b>	12101	28-11	0125	Mon	Russian intel/diplo.	FSK 200/500	(Danix-USA)
<b>M42c</b>	9215	28-11	0135	Mon	Russian intel/diplo.	FSK 200/500	(Danix-USA)
<b>M42d</b>	12158	1-11	1400	Tue	Russian diplo/intel. Link ID 16404, Date 31st, Serial #13, Groups 139	FSK 200/1000	(Danix)
<b>M42d</b>	11428	1-11	1410	Tue	Russian diplo/intel. Link ID 16404, Date 31st, Serial #13, Groups 139	FSK 200/1000	(Danix)
<b>M42d</b>	9439	1-11	1420	Tue	Russian diplo/intel. Link ID 16404, Date 31st, Serial #13, Groups 139	FSK 200/1000	(Danix)
<b>M42d</b>	11441	1-11	1650	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix)
<b>M42d</b>	9069	1-11	1700	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix)
<b>M42d</b>	7648	1-11	1710	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix)
<b>M42d</b>	8173	1-11	2300	Tue	Russian diplo/intel. Null msg on link 40988	FSK 200/1000	(AB/Danix)
<b>M42d</b>	6836	1-11	2310	Tue	Russian diplo/intel. Null msg on link 40988	FSK 200/1000	(AB/Danix)
<b>M42d</b>	5269	1-11	2320	Tue	Russian diplo/intel. Null msg on link 40988	FSK 200/1000	(AB/Danix)
<b>M42d</b>	20082	2-11	0600	Wed	Russian diplo/intel. Msg on link 32816	FSK 200/1000	(AB-RUS)
<b>M42d</b>	18207	2-11	0610	Wed	Russian diplo/intel. Msg on link 32816	FSK 200/1000	(AB-RUS)
<b>M42d</b>	16141	2-11	0620	Wed	Russian diplo/intel. Msg on link 32816	FSK 200/1000	(AB-RUS)
<b>M42d</b>	20314	2-11	0800	Wed	Russian diplo/intel. Null msg on link 45075	FSK 200/1000	(AB/Danix)
<b>M42d</b>	18183	2-11	0810	Wed	Russian diplo/intel. Null msg on link 45075	FSK 200/1000	(AB/Danix)
<b>M42d</b>	16154	2-11	0820	Wed	Russian diplo/intel. Null msg on link 45075	FSK 200/1000	(AB/Danix)

<b>M42d</b>	20996	2-11	1000	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB/Danix)
<b>M42d</b>	19163	2-11	1010	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB/Danix)
<b>M42d</b>	17428	2-11	1020	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB/Danix)
<b>M42d</b>	18191	2-11	1230	Wed	Russian diplo/intel. Null msg on link 53277	FSK 200/1000	(AB/Danix/ MPJ)
<b>M42d</b>	15963	2-11	1240	Wed	Russian diplo/intel. Null msg on link 53277	FSK 200/1000	(AB/Danix/ MPJ)
<b>M42d</b>	13436	2-11	1250	Wed	Russian diplo/intel. Null msg on link 53277	FSK 200/1000	(AB/Danix/ MPJ)
<b>M42d</b>	13384	3-11	1330	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB/Danix)
<b>M42d</b>	11428	3-11	1340	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB/Danix)
<b>M42d</b>	10376	3-11	1350	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB/Danix)
<b>M42d</b>	14419	5-11	1110	Sat	Russian intel/diplo. Link ID 36882, Date 3rd, Serial #71, Groups 139	FSK 200/1000	(Danix)
<b>M42d</b>	12128	5-11	1120	Sat	Russian intel/diplo. Link ID 36882, Date 3rd, Serial #71, Groups 139	FSK 200/1000	(Danix)
<b>M42d</b>	22871	5-11	1500	Sat	Russian intel/diplo. Null msg on link 32821	FSK 200/1000	(AB- RUS/Danix)
<b>M42d</b>	20629	5-11	1510	Sat	Russian intel/diplo. Null msg on link 32821	FSK 200/1000	(AB- RUS/Danix)
<b>M42d</b>	18553	5-11	1520	Sat	Russian intel/diplo. Null msg on link 32821	FSK 200/1000	(AB- RUS/Danix)
<b>M42d</b>	14419	6-11	1110	Sun	Russian intel/diplo. Link ID 36882, Date 3rd, Serial #71, Groups 139	FSK 200/1000	(AB/Danix)
<b>M42d</b>	16236	6-11	1110	Sun	Russian intel/diplo. Link ID 36882, Date 3rd, Serial #71, Groups 139	FSK 200/1000	(AB/Danix)
<b>M42d</b>	12128	6-11	1120	Sun	Russian intel/diplo. Link ID 36882, Date 3rd, Serial #71, Groups 139	FSK 200/1000	(AB/Danix)
<b>M42d</b>	12158	6-11	1400	Sun	Russian intel/diplo. Link ID 16404, Date 25th, Serial #12, Groups 64	FSK 200/1000	(Danix)
<b>M42d</b>	11428	6-11	1410	Sun	Russian intel/diplo. Link ID 16404, Date 25th, Serial #12, Groups 64	FSK 200/1000	(Danix)
<b>M42d</b>	9439	6-11	1420	Sun	Russian intel/diplo. Link ID 16404, Date 25th, Serial #12, Groups 64	FSK 200/1000	(Danix)
<b>M42d</b>	12224	6-11	1530	Sun	Russian intel/diplo. Null msg on link 20501	FSK 200/1000	(AB/Danix)
<b>M42d</b>	10173	6-11	1540	Sun	Russian intel/diplo. Null msg on link 20501	FSK 200/1000	(AB/Danix)
<b>M42d</b>	8137	6-11	1550	Sun	Russian intel/diplo. Null msg on link 20501	FSK 200/1000	(AB/Danix)
<b>M42d</b>	7658	7-11	0500	Mon	Russian intel/diplo. Link ID 45079, Null message	FSK 200/1000	(Danix)
<b>M42d</b>	6778	7-11	0510	Mon	Russian intel/diplo. Link ID 45079, Null message	FSK 200/1000	(Danix)
<b>M42d</b>	5361	7-11	0520	Mon	Russian intel/diplo. Link ID 45079, Null message	FSK 200/1000	(Danix)
<b>M42d</b>	12158	8-11	1400	Tue	Russian diplo/intel. Link ID 16404, Date 7th, Serial #14, Groups 139	FSK 200/1000	(Danix)
<b>M42d</b>	11428	8-11	1410	Tue	Russian diplo/intel. Link ID 16404, Date 7th, Serial #14, Groups 139	FSK 200/1000	(Danix)
<b>M42d</b>	9439	8-11	1420	Tue	Russian diplo/intel. Link ID 16404, Date 7th, Serial #14, Groups 139	FSK 200/1000	(Danix)
<b>M42d</b>	12133	8-11	1500	Tue	Russian diplo/intel. Link ID 16404, Date 7th, Serial #14, Groups 139	FSK 200/1000	(Danix)
<b>M42d</b>	10274	8-11	1510	Tue	Russian diplo/intel. Link ID 16404, Date 7th, Serial #14, Groups 139	FSK 200/1000	(Danix)
<b>M42d</b>	8148	8-11	1520	Tue	Russian diplo/intel. Link ID 16404, Date 7th, Serial #14, Groups 139	FSK 200/1000	(Danix)
<b>M42d</b>	11411	8-11	1650	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix/ MPJ)
<b>M42d</b>	9069	8-11	1700	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix/ MPJ)
<b>M42d</b>	7648	8-11	1710	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix/ MPJ)



<b>M42d</b>	8173	8-11	2300	Tue	Russian diplo/intel. Null msg on link 40988	FSK 200/1000	(AB/Danix/R L)
<b>M42d</b>	6836	8-11	2310	Tue	Russian diplo/intel. Null msg on link 40988	FSK 200/1000	(AB/Danix)
<b>M42d</b>	5269	8-11	2320	Tue	Russian diplo/intel. Null msg on link 40988	FSK 200/1000	(AB/Danix)
<b>M42d</b>	20314	9-11	0800	Wed	Russian diplo/intel. Null msg on link 45075	FSK 200/1000	(AB/Danix)
<b>M42d</b>	18183	9-11	0810	Wed	Russian diplo/intel. Null msg on link 45075	FSK 200/1000	(AB/Danix)
<b>M42d</b>	16154	9-11	0820	Wed	Russian diplo/intel. Null msg on link 45075	FSK 200/1000	(AB/Danix)
<b>M42d</b>	20476	9-11	0900	Wed	Russian diplo/intel. Link ID 16405, Date 8th, Serial #6, Groups 194	FSK 200/1000	(Danix)
<b>M42d</b>	18915	9-11	0910	Wed	Russian diplo/intel. Link ID 16405, Date 8th, Serial #6, Groups 194	FSK 200/1000	(Danix)
<b>M42d</b>	16328	9-11	0920	Wed	Russian diplo/intel. Link ID 16405, Date 8th, Serial #6, Groups 194	FSK 200/1000	(Danix)
<b>M42d</b>	20996	9-11	1000	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB-RUS/Danix)
<b>M42d</b>	19163	9-11	1010	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB-RUS/Danix)
<b>M42d</b>	18573	9-11	1025	Wed	Russian diplo/intel. Link ID 20492, Null message	FSK 200/1000	(Danix)
<b>M42d</b>	16245	9-11	1035	Wed	Russian diplo/intel. Link ID 20492, Null message	FSK 200/1000	(Danix)
<b>M42d</b>	20082	10-11	0600	Thu	Russian diplo/intel. Msg on link 32816	FSK 200/1000	(AB-HK)
<b>M42d</b>	18207	10-11	0610	Thu	Russian diplo/intel. Msg on link 32816	FSK 200/1000	(AB-HK)
<b>M42d</b>	16141	10-11	0620	Thu	Russian diplo/intel. Msg on link 32816	FSK 200/1000	(AB-HK)
<b>M42d</b>	20476	10-11	0900	Thu	Russian diplo/intel. Link ID 16405, Date 8th, Serial #6, Groups 194	FSK 200/1000	(AB/Danix)
<b>M42d</b>	18915	10-11	0910	Thu	Russian diplo/intel. Link ID 16405, Date 8th, Serial #6, Groups 194	FSK 200/1000	(AB/Danix)
<b>M42d</b>	16328	10-11	0920	Thu	Russian diplo/intel. Link ID 16405, Date 8th, Serial #6, Groups 194	FSK 200/1000	(AB/Danix)
<b>M42d</b>	13384	10-11	1330	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB/Danix)
<b>M42d</b>	11428	10-11	1340	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB/Danix)
<b>M42d</b>	10376	10-11	1350	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB/Danix/MPJ)
<b>M42d</b>	15623	12-11	0900	Sat	Russian intel/diplo. Link ID 45115, Date 11th, Serial #43, Groups 167	FSK 200/1000	(Danix)
<b>M42d</b>	13469	12-11	0910	Sat	Russian intel/diplo. Link ID 45115, Date 11th, Serial #43, Groups 167	FSK 200/1000	(Danix)
<b>M42d</b>	11569	12-11	0920	Sat	Russian intel/diplo. Link ID 45115, Date 11th, Serial #43, Groups 167	FSK 200/1000	(Danix)
<b>M42d</b>	20868	12-11	1000	Sat	Russian intel/diplo. Link ID 45057, Date 11th, Serial #89, Groups 125	FSK 200/1000	(AB/Danix)
<b>M42d</b>	18259	12-11	1010	Sat	Russian intel/diplo. Link ID 45057, Date 11th, Serial #89, Groups 125	FSK 200/1000	(AB/Danix)
<b>M42d</b>	16113	12-11	1020	Sat	Russian intel/diplo. Link ID 45057, Date 11th, Serial #89, Groups 125	FSK 200/1000	(AB/Danix)
<b>M42d</b>	16236	12-11	1100	Sat	Russian intel/diplo. Link ID 36882, Date 11th, Serial #72, Groups 243	FSK 200/1000	(Danix/MPJ)
<b>M42d</b>	14419	12-11	1110	Sat	Russian intel/diplo. Link ID 36882, Date 11th, Serial #72, Groups 243	FSK 200/1000	(AB/Danix/MPJ)
<b>M42d</b>	12128	12-11	1120	Sat	Russian intel/diplo. Link ID 36882, Date 11th, Serial #72, Groups 243	FSK 200/1000	(AB/Danix/MPJ)
<b>M42d</b>	22871	12-11	1500	Sat	Russian intel/diplo. Link ID 32821, Null message	FSK 200/1000	(Danix-RUS)
<b>M42d</b>	20629	12-11	1510	Sat	Russian intel/diplo. Link ID 32821, Null message	FSK 200/1000	(Danix-RUS)
<b>M42d</b>	18553	12-11	1520	Sat	Russian intel/diplo. Link ID 32821, Null message	FSK 200/1000	(Danix-RUS)
<b>M42d</b>	15623	13-11	0900	Sun	Russian intel/diplo. Link ID 45115, Date 11th, Serial #43, Groups 167	FSK 200/1000	(AB/Danix)
<b>M42d</b>	13469	13-11	0910	Sun	Russian intel/diplo. Link ID 45115, Date 11th, Serial #43, Groups 167	FSK 200/1000	(AB/Danix)
<b>M42d</b>	11569	13-11	0920	Sun	Russian intel/diplo. Link ID 45115, Date 11th, Serial #43, Groups 167	FSK 200/1000	(AB/Danix)

<b>M42d</b>	20868	13-11	1000	Sun	Russian intel/diplo. Link ID 45057, Date 11th, Serial #89, Groups 125	FSK 200/1000	(AB/Danix)
<b>M42d</b>	18259	13-11	1010	Sun	Russian intel/diplo. Link ID 45057, Date 11th, Serial #89, Groups 125	FSK 200/1000	(AB/Danix)
<b>M42d</b>	16113	13-11	1020	Sun	Russian intel/diplo. Link ID 45057, Date 11th, Serial #89, Groups 125	FSK 200/1000	(AB/Danix)
<b>M42d</b>	16236	13-11	1100	Sun	Russian intel/diplo. Link ID 36882, Date 11th, Serial #72, Groups 243	FSK 200/1000	(AB/Danix)
<b>M42d</b>	14419	13-11	1110	Sun	Russian intel/diplo. Link ID 36882, Date 11th, Serial #72, Groups 243	FSK 200/1000	(AB/Danix)
<b>M42d</b>	12128	13-11	1120	Sun	Russian intel/diplo. Link ID 36882, Date 11th, Serial #72, Groups 243	FSK 200/1000	(AB/Danix)
<b>M42d</b>	12224	13-11	1530	Sun	Russian intel/diplo. Null msg on link 20501	FSK 200/1000	(AB/Danix)
<b>M42d</b>	10173	13-11	1540	Sun	Russian intel/diplo. Null msg on link 20501	FSK 200/1000	(AB/Danix/ MPJ)
<b>M42d</b>	8137	13-11	1550	Sun	Russian intel/diplo. Null msg on link 20501	FSK 200/1000	(AB/Danix/ MPJ)
<b>M42d</b>	12158	15-11	1400	Tue	Russian diplo/intel. Link ID 16405, Date 14th, Serial #15, Groups 139	FSK 200/1000	(Danix)
<b>M42d</b>	11428	15-11	1410	Tue	Russian diplo/intel. Link ID 16405, Date 14th, Serial #15, Groups 139	FSK 200/1000	(Danix)
<b>M42d</b>	9439	15-11	1420	Tue	Russian diplo/intel. Link ID 16405, Date 14th, Serial #15, Groups 139	FSK 200/1000	(Danix)
<b>M42d</b>	12133	15-11	1500	Tue	Russian diplo/intel. Link ID 16405, Date 14th, Serial #15, Groups 139	FSK 200/1000	(Danix)
<b>M42d</b>	10274	15-11	1510	Tue	Russian diplo/intel. Link ID 16405, Date 14th, Serial #15, Groups 139	FSK 200/1000	(Danix)
<b>M42d</b>	8148	15-11	1520	Tue	Russian diplo/intel. Link ID 16405, Date 14th, Serial #15, Groups 139	FSK 200/1000	(Danix)
<b>M42d</b>	11411	15-11	1650	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix/ MPJ)
<b>M42d</b>	9069	15-11	1700	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix/ MPJ)
<b>M42d</b>	7648	15-11	1710	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix/ MPJ)
<b>M42d</b>	8173	15-11	2300	Tue	Russian diplo/intel. Null msg on link 40988	FSK 200/1000	(AB/Danix)
<b>M42d</b>	6836	15-11	2310	Tue	Russian diplo/intel. Null msg on link 40988	FSK 200/1000	(AB/Danix)
<b>M42d</b>	5269	15-11	2320	Tue	Russian diplo/intel. Null msg on link 40988	FSK 200/1000	(AB/Danix)
<b>M42d</b>	20314	16-11	0800	Wed	Russian diplo/intel. Null msg on link 45075	FSK 200/1000	(AB/Danix)
<b>M42d</b>	18183	16-11	0810	Wed	Russian diplo/intel. Null msg on link 45075	FSK 200/1000	(AB/Danix)
<b>M42d</b>	16154	16-11	0820	Wed	Russian diplo/intel. Null msg on link 45075	FSK 200/1000	(AB/Danix)
<b>M42d</b>	20996	16-11	1000	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB/Danix)
<b>M42d</b>	19163	16-11	1010	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB/Danix)
<b>M42d</b>	17428	16-11	1020	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB/Danix)
<b>M42d</b>	18191	16-11	1230	Wed	Russian diplo/intel. Null msg on link 53277	FSK 200/1000	(AB/Danix/ MPJ)
<b>M42d</b>	15963	16-11	1240	Wed	Russian diplo/intel. Null msg on link 53277	FSK 200/1000	(AB/Danix/ MPJ)
<b>M42d</b>	13436	16-11	1250	Wed	Russian diplo/intel. Null msg on link 53277	FSK 200/1000	(AB/Danix/ MPJ)
<b>M42d</b>	13384	17-11	1330	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB/Danix)
<b>M42d</b>	11428	17-11	1340	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB/Danix)
<b>M42d</b>	10376	17-11	1350	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB/Danix)
<b>M42d</b>	16236	19-11	1100	Sat	Russian intel/diplo. Msg on link 36882	FSK 200/1000	(AB/Danix)
<b>M42d</b>	14419	19-11	1110	Sat	Russian intel/diplo. Msg on link 36882	FSK 200/1000	(AB/Danix)
<b>M42d</b>	12128	19-11	1120	Sat	Russian intel/diplo. Msg on link 36882	FSK 200/1000	(AB/Danix)
<b>M42d</b>	22871	19-11	1500	Sat	Russian intel/diplo. Null msg on link 32821	FSK 200/1000	(AB- RUS/Danix)

<b>M42d</b>	20629	19-11	1510	Sat	Russian intel/diplo. Null msg on link 32821	FSK 200/1000	(AB-RUS/Danix)
<b>M42d</b>	18553	19-11	1520	Sat	Russian intel/diplo. Null msg on link 32821	FSK 200/1000	(AB-RUS/Danix)
<b>M42d</b>	16236	20-11	1100	Sun	Russian intel/diplo. Link ID 36882, Date 18th, Serial #73, Groups 71	FSK 200/1000	(AB/Danix)
<b>M42d</b>	14419	20-11	1110	Sun	Russian intel/diplo. Link ID 36882, Date 18th, Serial #73, Groups 71	FSK 200/1000	(AB/Danix)
<b>M42d</b>	12128	20-11	1120	Sun	Russian intel/diplo. Link ID 36882, Date 18th, Serial #73, Groups 71	FSK 200/1000	(AB/Danix)
<b>M42d</b>	12224	20-11	1530	Sun	Russian intel/diplo. Null msg on link 20501	FSK 200/1000	(AB/Danix)
<b>M42d</b>	10173	20-11	1540	Sun	Russian intel/diplo. Null msg on link 20501	FSK 200/1000	(AB/Danix)
<b>M42d</b>	8137	20-11	1550	Sun	Russian intel/diplo. Null msg on link 20501	FSK 200/1000	(AB/Danix)
<b>M42d</b>	7658	21-11	0500	Mon	Russian intel/diplo. Null msg on link 45079	FSK 200/1000	(AB/Danix)
<b>M42d</b>	6778	21-11	0510	Mon	Russian intel/diplo. Null msg on link 45079	FSK 200/1000	(AB/Danix)
<b>M42d</b>	5361	21-11	0520	Mon	Russian intel/diplo. Null msg on link 45079	FSK 200/1000	(AB/Danix)
<b>M42d</b>	12158	22-11	1400	Tue	Russian diplo/intel. Link ID 16404, Date 21st, Serial #17, Groups 139	FSK 200/1000	(Danix)
<b>M42d</b>	11428	22-11	1410	Tue	Russian diplo/intel. Link ID 16404, Date 21st, Serial #17, Groups 139	FSK 200/1000	(Danix)
<b>M42d</b>	9439	22-11	1420	Tue	Russian diplo/intel. Link ID 16404, Date 21st, Serial #17, Groups 139	FSK 200/1000	(Danix)
<b>M42d</b>	12133	22-11	1500	Tue	Russian diplo/intel. Link ID 16404, Date 21st, Serial #17, Groups 139	FSK 200/1000	(Danix)
<b>M42d</b>	10274	22-11	1510	Tue	Russian diplo/intel. Link ID 16404, Date 21st, Serial #17, Groups 139	FSK 200/1000	(Danix)
<b>M42d</b>	8148	22-11	1520	Tue	Russian diplo/intel. Link ID 16404, Date 21st, Serial #17, Groups 139	FSK 200/1000	(Danix)
<b>M42d</b>	11411	22-11	1650	Tue	Russian diplo/intel. Link ID 20501, Date 21st, Serial #63, Groups 158	FSK 200/1000	(AB/Danix/MPJ)
<b>M42d</b>	9069	22-11	1700	Tue	Russian diplo/intel. Link ID 20501, Date 21st, Serial #63, Groups 158	FSK 200/1000	(AB/Danix/MPJ)
<b>M42d</b>	7648	22-11	1710	Tue	Russian diplo/intel. Link ID 20501, Date 21st, Serial #63, Groups 158	FSK 200/1000	(AB/Danix/MPJ)
<b>M42d</b>	8173	22-11	2300	Tue	Russian diplo/intel. Null msg on link 40988	FSK 200/1000	(AB/Danix/R L)
<b>M42d</b>	6836	22-11	2310	Tue	Russian diplo/intel. Null msg on link 40988	FSK 200/1000	(AB/Danix)
<b>M42d</b>	5269	22-11	2320	Tue	Russian diplo/intel. Null msg on link 40988	FSK 200/1000	(AB/Danix)
<b>M42d</b>	20082	23-11	0600	Wed	Russian diplo/intel. Msg on link 32816	FSK 200/1000	(AB-NZL/Danix-NZL)
<b>M42d</b>	18207	23-11	0610	Wed	Russian diplo/intel. Msg on link 32816	FSK 200/1000	(AB-NZL/Danix-NZL)
<b>M42d</b>	16141	23-11	0620	Wed	Russian diplo/intel. Msg on link 32816	FSK 200/1000	(AB-NZL/Danix-NZL)
<b>M42d</b>	20314	23-11	0800	Wed	Russian diplo/intel. Null msg on link 45075. Wrong shift: 200Hz instead of 1000Hz	FSK 200/200	(AB/Danix)
<b>M42d</b>	18183	23-11	0810	Wed	Russian diplo/intel. Null msg on link 45075	FSK 200/1000	(AB/Danix)
<b>M42d</b>	16154	23-11	0820	Wed	Russian diplo/intel. Null msg on link 45075	FSK 200/1000	(AB/Danix)
<b>M42d</b>	20476	23-11	0900	Wed	Russian diplo/intel. Msg on link 16405	FSK 200/1000	(AB)
<b>M42d</b>	18915	23-11	0910	Wed	Russian diplo/intel. Msg on link 16405	FSK 200/1000	(AB)
<b>M42d</b>	16328	23-11	0920	Wed	Russian diplo/intel. Msg on link 16405	FSK 200/1000	(AB)
<b>M42d</b>	20996	23-11	1000	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB/Danix)
<b>M42d</b>	19163	23-11	1010	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB/Danix)
<b>M42d</b>	20439	23-11	1015	Wed	Russian diplo/intel. Null msg on link 20492	FSK 200/1000	(Danix)
<b>M42d</b>	17428	23-11	1020	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB/Danix/R L)

<b>M42d</b>	18573	23-11	1025	Wed	Russian diplo/intel. Null msg on link 20492	FSK 200/1000	(AB-I/Danix)
<b>M42d</b>	16245	23-11	1035	Wed	Russian diplo/intel. Null msg on link 20492	FSK 200/1000	(AB-I/Danix/RL)
<b>M42d</b>	11411	23-11	1650	Wed	Russian diplo/intel. Link ID 20501, Date 21st, Serial #63, Groups 158	FSK 200/1000	(AB/Danix)
<b>M42d</b>	9069	23-11	1700	Wed	Russian diplo/intel. Link ID 20501, Date 21st, Serial #63, Groups 158	FSK 200/1000	(AB/Danix/MPJ)
<b>M42d</b>	7648	23-11	1710	Wed	Russian diplo/intel. Link ID 20501, Date 21st, Serial #63, Groups 158	FSK 200/1000	(AB/Danix/MPJ)
<b>M42d</b>	20082	24-11	0600	Thu	Russian diplo/intel. Msg on link 32816	FSK 200/1000	(AB-NZL)
<b>M42d</b>	18207	24-11	0610	Thu	Russian diplo/intel. Msg on link 32816	FSK 200/1000	(AB-NZL)
<b>M42d</b>	16141	24-11	0620	Thu	Russian diplo/intel. Msg on link 32816	FSK 200/1000	(AB-NZL)
<b>M42d</b>	20476	24-11	0900	Thu	Russian diplo/intel. Msg on link 16405	FSK 200/1000	(AB/Danix)
<b>M42d</b>	18915	24-11	0910	Thu	Russian diplo/intel. Msg on link 16405	FSK 200/1000	(AB/Danix)
<b>M42d</b>	16328	24-11	0920	Thu	Russian diplo/intel. Msg on link 16405	FSK 200/1000	(AB/Danix)
<b>M42d</b>	13384	24-11	1330	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB/Danix/MPJ)
<b>M42d</b>	11428	24-11	1340	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB/Danix/MPJ)
<b>M42d</b>	10376	24-11	1350	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB/Danix/MPJ)
<b>M42d</b>	15623	26-11	0900	Sat	Russian intel/diplo. Link ID 45114, Date 25th, Serial #44, Groups 160	FSK 200/1000	(AB/Danix)
<b>M42d</b>	13469	26-11	0910	Sat	Russian intel/diplo. Link ID 45114, Date 25th, Serial #44, Groups 160	FSK 200/1000	(AB/Danix)
<b>M42d</b>	11569	26-11	0920	Sat	Russian intel/diplo. Link ID 45114, Date 25th, Serial #44, Groups 160	FSK 200/1000	(AB/Danix)
<b>M42d</b>	20868	26-11	1000	Sat	Russian intel/diplo. Link ID 45057, Date 11th, Serial #89, Groups 125	FSK 200/1000	(AB/Danix)
<b>M42d</b>	18259	26-11	1010	Sat	Russian intel/diplo. Link ID 45057, Date 11th, Serial #89, Groups 125	FSK 200/1000	(AB/Danix)
<b>M42d</b>	16113	26-11	1020	Sat	Russian intel/diplo. Link ID 45057, Date 11th, Serial #89, Groups 125	FSK 200/1000	(AB/Danix)
<b>M42d</b>	16236	26-11	1100	Sat	Russian intel/diplo. Link ID 36882, Date 25th, Serial #74, Groups 191	FSK 200/1000	(AB/Danix)
<b>M42d</b>	14419	26-11	1110	Sat	Russian intel/diplo. Link ID 36882, Date 25th, Serial #74, Groups 191	FSK 200/1000	(AB/Danix)
<b>M42d</b>	12128	26-11	1120	Sat	Russian intel/diplo. Link ID 36882, Date 25th, Serial #74, Groups 191	FSK 200/1000	(AB/Danix)
<b>M42d</b>	22871	26-11	1500	Sat	Russian intel/diplo. Null msg on link 32821	FSK 200/1000	(AB-RUS/Danix)
<b>M42d</b>	20629	26-11	1510	Sat	Russian intel/diplo. Null msg on link 32821	FSK 200/1000	(AB-RUS/Danix)
<b>M42d</b>	18553	26-11	1520	Sat	Russian intel/diplo. Null msg on link 32821	FSK 200/1000	(AB-RUS/Danix)
<b>M42d</b>	15623	27-11	0900	Sun	Russian intel/diplo. Link ID 45114, Date 25th, Serial #44, Groups 160	FSK 200/1000	(AB/Danix)
<b>M42d</b>	13469	27-11	0910	Sun	Russian intel/diplo. Link ID 45114, Date 25th, Serial #44, Groups 160	FSK 200/1000	(AB/Danix)
<b>M42d</b>	11569	27-11	0920	Sun	Russian intel/diplo. Link ID 45114, Date 25th, Serial #44, Groups 160	FSK 200/1000	(AB/Danix)
<b>M42d</b>	20868	27-11	1000	Sun	Russian intel/diplo. Link ID 45057, Date 11th, Serial #89, Groups 125	FSK 200/1000	(AB/Danix)
<b>M42d</b>	18259	27-11	1010	Sun	Russian intel/diplo. Link ID 45057, Date 11th, Serial #89, Groups 125	FSK 200/1000	(AB/Danix)
<b>M42d</b>	16113	27-11	1020	Sun	Russian intel/diplo. Link ID 45057, Date 11th, Serial #89, Groups 125	FSK 200/1000	(AB/Danix)
<b>M42d</b>	16236	27-11	1100	Sun	Russian intel/diplo. Link ID 36882, Date 25th, Serial #74, Groups 191	FSK 200/1000	(AB/Danix/MPJ)

<b>M42d</b>	14419	27-11	1110	Sun	Russian intel/diplo. Link ID 36882, Date 25th, Serial #74, Groups 191	FSK 200/1000	(AB/Danix/MPJ)
<b>M42d</b>	12128	27-11	1120	Sun	Russian intel/diplo. Link ID 36882, Date 25th, Serial #74, Groups 191	FSK 200/1000	(AB/Danix/MPJ)
<b>M42d</b>	12158	27-11	1400	Sun	Russian diplo/intel. Null msg on link 16405	FSK 200/1000	(AB/Danix)
<b>M42d</b>	11428	27-11	1410	Sun	Russian diplo/intel. Null msg on link 16405	FSK 200/1000	(AB/Danix/MPJ)
<b>M42d</b>	9439	27-11	1420	Sun	Russian diplo/intel. Null msg on link 16405	FSK 200/1000	(AB/Danix/MPJ)
<b>M42d</b>	12224	27-11	1530	Sun	Russian intel/diplo. Link ID 20501, Date 21st, Serial #59, Groups 158	FSK 200/1000	(AB/Danix/MPJ)
<b>M42d</b>	10173	27-11	1540	Sun	Russian intel/diplo. Link ID 20501, Date 21st, Serial #59, Groups 158	FSK 200/1000	(AB/Danix/MPJ)
<b>M42d</b>	8137	27-11	1550	Sun	Russian intel/diplo. Link ID 20501, Date 21st, Serial #59, Groups 158	FSK 200/1000	(AB/Danix/MPJ)
<b>M42d</b>	12224	28-11	1530	Mon	Russian intel/diplo. Link ID 20501, Date 21st, Serial #59, Groups 158	FSK 200/1000	(AB-RUS/Danix/MPJ)
<b>M42d</b>	10173	28-11	1540	Mon	Russian intel/diplo. Link ID 20501, Date 21st, Serial #59, Groups 158	FSK 200/1000	(AB/Danix/MPJ)
<b>M42d</b>	8137	28-11	1550	Mon	Russian intel/diplo. Link ID 20501, Date 21st, Serial #59, Groups 158	FSK 200/1000	(AB/Danix/MPJ)
<b>M42d</b>	12133	29-11	1500	Tue	Russian diplo/intel. Null msg on link 16405	FSK 200/1000	(AB/Danix/MPJ)
<b>M42d</b>	10274	29-11	1510	Tue	Russian diplo/intel. Null msg on link 16405	FSK 200/1000	(AB/Danix/MPJ)
<b>M42d</b>	8148	29-11	1520	Tue	Russian diplo/intel. Null msg on link 16405	FSK 200/1000	(AB/Danix/MPJ)
<b>M42d</b>	11411	29-11	1650	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB-RUS)
<b>M42d</b>	9069	29-11	1700	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB-RUS)
<b>M42d</b>	7648	29-11	1710	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/RUS)
<b>M42d</b>	8173	29-11	2300	Tue	Russian diplo/intel. Null msg on link 40988	FSK 200/1000	(AB/Danix)
<b>M42d</b>	6836	29-11	2310	Tue	Russian diplo/intel. Null msg on link 40988	FSK 200/1000	(AB/Danix)
<b>M42d</b>	5269	29-11	2320	Tue	Russian diplo/intel. Null msg on link 40988	FSK 200/1000	(AB/Danix)
<b>M42d</b>	20082	30-11	0600	Wed	Russian diplo/intel. Two messages on link 32817	FSK 200/1000	(AB-AUS/Danix)
<b>M42d</b>	18207	30-11	0610	Wed	Russian diplo/intel. Two messages on link 32817	FSK 200/1000	(AB-AUS/Danix)
<b>M42d</b>	16141	30-11	0620	Wed	Russian diplo/intel. Two messages on link 32817	FSK 200/1000	(AB-KOR/Danix)
<b>M42d</b>	20314	30-11	0800	Wed	Russian diplo/intel. Null msg on link 45075	FSK 200/200	(AB/Danix)
<b>M42d</b>	18183	30-11	0810	Wed	Russian diplo/intel. Null msg on link 45075	FSK 200/1000	(AB/Danix)
<b>M42d</b>	16154	30-11	0820	Wed	Russian diplo/intel. Null msg on link 45075	FSK 200/1000	(AB/Danix)
<b>M42d</b>	20996	30-11	1000	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB/Danix)
<b>M42d</b>	19163	30-11	1010	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB/Danix)
<b>M42d</b>	17428	30-11	1020	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB/Danix)
<b>M51a</b>	6825	4-11	1702	Fri	FAV22 i.p. ESHZI ZJSKA UJSIL 637/8 TGDJS BXNWJ QKAOL DJFGT SHJSK QKALP MQKGB CVDGR SJRTD XVSKZ KWLQO YHDKL SLPSM ...	CW	(AB)
<b>M51a</b>	6825	18-11	1005	Fri	i.p. C EST BON, ELLE PEUT SUPPORTER LE PASSAGE DES VEHICULES. AR CQ DE FAV22 VA	CW	(JPL-S)
<b>M51a</b>	6825	28-11	0806	Mon	i.p. ZCXVB MNJHB ASIDG 13957 VXSGW .,* QDSSG LPUO NVBFG ... (letter/figure groups and punctuations)	CW	(AB)
<b>M89</b>	10180	1-11	0812	Tue	i.p. 6N34 4T77 UU37 A53A 67A6 ... AR QSL ? HR WK NR 41 V DKG6 DE 3A7D	CW	(JPL)
<b>M89</b>	4860	1-11	1820	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
<b>M89</b>	6840	1-11	1820	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
<b>M89</b>	3642	1-11	1825	Tue	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)



M89	3777	1-11	1826	Tue	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	1-11	1826	Tue	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4720	1-11	1830	Tue	V WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	3642	1-11	1831	Tue	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	1-11	1831	Tue	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4860	2-11	0020	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	2-11	0020	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	6793	2-11	0817	Wed	V M8JF (x3) DE RIS9 (x2) //N/H	CW	(JPL)
M89	6840	2-11	0820	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	10640	2-11	0820	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	4860	2-11	1220	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	2-11	1220	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	4860	2-11	1720	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	2-11	1720	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	3777	2-11	1725	Wed	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	2-11	1725	Wed	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	3642	2-11	1730	Wed	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	4720	2-11	1730	Wed	V WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	7602	2-11	1730	Wed	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4131	2-11	1732	Wed	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4860	2-11	2220	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	2-11	2220	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	10180	3-11	1105	Thu	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3777	3-11	1108	Thu	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	3-11	1108	Thu	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4860	3-11	1220	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	3-11	1220	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	4720	3-11	1230	Thu	V WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	3777	3-11	1448	Thu	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	3-11	1448	Thu	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	3642	3-11	1450	Thu	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	3-11	1450	Thu	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4720	3-11	1730	Thu	V WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4860	3-11	1820	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	3-11	1820	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	4720	3-11	1830	Thu	V WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4860	3-11	2320	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	3-11	2320	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	4720	3-11	2330	Thu	V WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	3777	4-11	0941	Fri	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	4-11	0941	Fri	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	10180	4-11	0944	Fri	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	4860	4-11	1120	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	4-11	1120	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	4720	4-11	1130	Fri	V WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	7602	4-11	1352	Fri	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3642	4-11	1354	Fri	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	4131	4-11	1757	Fri	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	3642	4-11	2244	Fri	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	4-11	2244	Fri	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	6793	4-11	2246	Fri	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	8060	4-11	2246	Fri	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	3777	5-11	1745	Sat	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	5-11	1745	Sat	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	3642	5-11	1758	Sat	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	5-11	1758	Sat	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	3777	6-11	1459	Sun	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)

M89	4532	6-11	1459	Sun	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	3642	6-11	1513	Sun	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	7602	6-11	1514	Sun	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	4860	6-11	1520	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	4720	6-11	1530	Sun	V WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4720	6-11	1830	Sun	V WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	3642	6-11	1833	Sun	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	6778	7-11	0923	Mon	V M8JF (x3) DE RIS9 (x2) //6793 At 0926z silent while 6793 kept on sending for a short period	CW	(JPL)
M89	6793	7-11	0923	Mon	V M8JF (x3) DE RIS9 (x2) //6778 At 0926z silent while 6793 kept on sending for a short period	CW	(JPL)
M89	3777	7-11	1436	Mon	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	7-11	1436	Mon	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	3489	7-11	1458	Mon	i.p. R U W.. GA K. R VA K. R6 EEE N EEEE R BOS NIL SK K	CW	(JPL)
M89	3642	7-11	2233	Mon	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3777	7-11	2237	Mon	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	7-11	2237	Mon	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	5801	8-11	0940	Tue	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	10180	8-11	0940	Tue	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	6807	8-11	0956	Tue	i.p. RMKS 7313 TO 7713 K. NR 002 CK 9 AS HR MSG QTA K. HR WK NR 11 K. HR WK NR 10 K. HR NIL SK	CW	(JPL)
M89	3777	8-11	1143	Tue	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	8-11	1143	Tue	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4532	8-11	2302	Tue	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	8060	8-11	2302	Tue	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4860	8-11	2320	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	8-11	2320	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	4720	8-11	2330	Tue	V WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	3777	9-11	1040	Wed	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	9-11	1040	Wed	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	10180	9-11	1042	Wed	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	4860	9-11	1120	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	9-11	1120	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	5801	9-11	1121	Wed	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3642	9-11	1221	Wed	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	9-11	1221	Wed	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	3642	9-11	1804	Wed	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3777	9-11	1805	Wed	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	9-11	1805	Wed	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	3777	10-11	1042	Thu	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	10-11	1042	Thu	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	5801	10-11	1055	Thu	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	10180	10-11	1055	Thu	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	4860	10-11	1120	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	10-11	1120	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	4720	10-11	1130	Thu	V WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4860	10-11	1220	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	10-11	1220	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	3777	10-11	1757	Thu	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	10-11	1757	Thu	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	3642	10-11	1759	Thu	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3642	10-11	1803	Thu	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	10-11	1803	Thu	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	5801	11-11	1105	Fri	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3777	11-11	1106	Fri	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	11-11	1106	Fri	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4860	11-11	1120	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)

M89	6840	11-11	1120	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	4720	11-11	1130	Fri	V WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	3642	11-11	1827	Fri	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	11-11	1827	Fri	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	3777	11-11	1830	Fri	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	11-11	1830	Fri	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	10180	12-11	1022	Sat	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	5801	12-11	1039	Sat	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	10180	12-11	1039	Sat	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	3777	12-11	1041	Sat	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	12-11	1041	Sat	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4860	12-11	1120	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	12-11	1120	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	4720	12-11	1130	Sat	V WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	3642	12-11	1652	Sat	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	12-11	1652	Sat	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4131	12-11	1654	Sat	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	3777	12-11	1656	Sat	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	12-11	1656	Sat	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4859	12-11	1700	Sat	V NG3Y (X3) DE 2QLC (x2) Note: Previously heard on 4858	CW	(JPL)
M89	4859	12-11	2025	Sat	V NG3Y (X3) DE 2QLC (x2)	CW	(JPL)
M89	3642	12-11	2026	Sat	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3777	12-11	2027	Sat	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	12-11	2027	Sat	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	6793	14-11	0014	Mon	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	4860	14-11	0020	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	14-11	0020	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	3642	14-11	0037	Mon	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	6668	14-11	1004	Mon	i.p. 5U7A4DT.3NAA6 7D45A ...D7 ....	CW	(JPL)
M89	3777	14-11	1403	Mon	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	14-11	1403	Mon	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4859	14-11	1407	Mon	V NG3Y (X3) DE 2QLC (x2) (	CW	(JPL)
M89	4003	14-11	1410	Mon	V NG3Y (X3) DE 2QLC (x2) //4859 Note: New frequency and // pairing for this station.	CW	(JPL)
M89	4859	14-11	1410	Mon	V NG3Y (X3) DE 2QLC (x2) (/4003	CW	(JPL)
M89	4860	14-11	1420	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	14-11	1420	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	4859	14-11	1433	Mon	i.p. U7DN 74T5 74T5 7645 UT7D 767U 3AUT ... III 3UAT AR. V NG3Y DE 2QLC	CW	(JPL)
M89	3642	14-11	1710	Mon	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	14-11	1710	Mon	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4131	14-11	1719	Mon	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4720	14-11	1730	Mon	V WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4003	14-11	2027	Mon	V NG3Y (X3) DE 2QLC (x2) //4859	CW	(JPL)
M89	4859	14-11	2027	Mon	V NG3Y (X3) DE 2QLC (x2) (/4003	CW	(JPL)
M89	10180	15-11	0457	Tue	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	6093	15-11	0943	Tue	V NG3Y (X3) DE 2QLC (x2) Note: New frequency for this R/S	CW	(JPL)
M89	5483	15-11	0950	Tue	i.p. HR WK NR 113 K. R HR WK NR 12. K (Both stations on this freq)	CW	(JPL)
M89	8346	15-11	0950	Tue	i.p. = SE7/QL9 AR WEX R4PXR4 PTUR 4P PXR40 FFF NR 1405/EX 1809 =	CW	(JPL)
M89	8341	15-11	1015	Tue	i.p. NR 1309/EX 1814 = UA6/HE7 AR NR 1309/EX 1814 = UA6/HE7 AR	CW	(JPL)
M89	4860	15-11	1020	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840//8360	CW	(JPL)



M89	6840	15-11	1020	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860//8360	CW	(JPL)
M89	8360	15-11	1020	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860//6840 Note: New frequency for NYZ.	CW	(JPL)
M89	5801	15-11	1100	Tue	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	6093	15-11	1101	Tue	V NG3Y (X3) DE 2QLC (x2)	CW	(JPL)
M89	3777	15-11	1102	Tue	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	15-11	1102	Tue	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4860	15-11	1120	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	15-11	1120	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	4720	15-11	1130	Tue	V WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	3642	15-11	1427	Tue	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	15-11	1427	Tue	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4003	15-11	1600	Tue	V NG3Y (X3) DE 2QLC (x2) //4859 Although //4859, the R/S on 4003 is much faster than the one on 4859	CW	(JPL)
M89	4859	15-11	1600	Tue	V NG3Y (X3) DE 2QLC (x2) //4003 Although //4859, the R/S on 4003 is much faster than the one on 4859	CW	(JPL)
M89	7602	15-11	1605	Tue	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3777	15-11	1606	Tue	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	15-11	1606	Tue	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	3642	15-11	1613	Tue	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	15-11	1613	Tue	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	3777	15-11	2002	Tue	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	15-11	2002	Tue	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	3642	16-11	1743	Wed	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3777	16-11	1744	Wed	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	16-11	1744	Wed	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4003	16-11	1746	Wed	V NG3Y (X3) DE 2QLC (x2) Although //4859, the R/S on 4003 is much faster than the one on 4859	CW	(JPL)
M89	4859	16-11	1746	Wed	V NG3Y (X3) DE 2QLC (x2) Although //4003, the R/S on 4859 is much slower than the one on 4003	CW	(JPL)
M89	3642	16-11	1756	Wed	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	16-11	1756	Wed	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4532	16-11	2316	Wed	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	6793	16-11	2316	Wed	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4860	16-11	2320	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	16-11	2320	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	4720	16-11	2330	Wed	V WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	6093	16-11	2331	Wed	V NG3Y (X3) DE 2QLC (x2)	CW	(JPL)
M89	6322	17-11	1009	Thu	i.p. 4NA5 D353 NT4T 3DA6 DTAN ... AR AR VV DD3G K	CW	(JPL)
M89	6093	17-11	1018	Thu	V NG3Y (X3) DE 2QLC (x2)	CW	(JPL)
M89	6840	17-11	1020	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	10640	17-11	1020	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	3777	17-11	1117	Thu	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	17-11	1117	Thu	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4003	17-11	1118	Thu	V NG3Y (X3) DE 2QLC (x2) (/4859	CW	(JPL)
M89	4859	17-11	1118	Thu	V NG3Y (X3) DE 2QLC (x2) (/4003	CW	(JPL)
M89	4860	17-11	1120	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	17-11	1120	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	5801	17-11	1122	Thu	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	4720	17-11	1130	Thu	V WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	3642	17-11	1541	Thu	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3777	17-11	1542	Thu	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	17-11	1542	Thu	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)

M89	4003	17-11	1543	Thu	V NG3Y (X3) DE 2QLC (x2) (//4859	CW	(JPL)
M89	4859	17-11	1543	Thu	V NG3Y (X3) DE 2QLC (x2) (//4003	CW	(JPL)
M89	3642	17-11	1548	Thu	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	17-11	1548	Thu	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	10180	18-11	0959	Fri	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3777	18-11	1008	Fri	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	18-11	1008	Fri	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	6093	18-11	1009	Fri	V NG3Y (X3) DE 2QLC (x2)	CW	(JPL)
M89	5801	18-11	1016	Fri	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	10180	18-11	1016	Fri	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	5843	18-11	1044	Fri	i.p. AR K R R	CW	(JPL)
M89	5566	18-11	1053	Fri	i.p. T76. DT56 UN45A 4AU. 3N4T ... AR	CW	(JPL)
M89	4003	18-11	1105	Fri	V NG3Y (X3) DE 2QLC (x2) (//4859	CW	(JPL)
M89	4859	18-11	1105	Fri	V NG3Y (X3) DE 2QLC (x2) //4003	CW	(JPL)
M89	4860	18-11	1120	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	18-11	1120	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	4720	18-11	1130	Fri	V WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4860	18-11	1220	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	18-11	1220	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	4003	18-11	1229	Fri	V NG3Y (X3) DE 2QLC (x2) (//4859 Machine sent. Returned to R/S at 1230z. Faster than 4859	CW	(JPL)
M89	4859	18-11	1229	Fri	V NG3Y (X3) DE 2QLC (x2) //4003 Hand sent. Return to R/S at 1238z. Slower than 4003	CW	(JPL)
M89	4720	18-11	1230	Fri	V WNF (x3) DE FXM (x2) QSA ? QSV K QSA ? QSV K	CW	(JPL)
M89	4003	18-11	1610	Fri	V NG3Y (X3) DE 2QLC (x2) (//4859 R/S faster than 4859	CW	(JPL)
M89	4859	18-11	1610	Fri	V NG3Y (X3) DE 2QLC (x2) (//4003 R/S slower than 4003	CW	(JPL)
M89	3642	18-11	1612	Fri	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	18-11	1612	Fri	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	3642	18-11	2056	Fri	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	18-11	2056	Fri	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	3777	18-11	2058	Fri	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	18-11	2058	Fri	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4131	18-11	2059	Fri	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4720	18-11	2230	Fri	V WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	6793	18-11	2235	Fri	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	8060	18-11	2235	Fri	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	3777	19-11	1014	Sat	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	19-11	1014	Sat	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	5801	19-11	1015	Sat	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	10180	19-11	1015	Sat	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	6093	19-11	1017	Sat	V NG3Y (X3) DE 2QLC (x2) //N/H	CW	(JPL)
M89	6840	19-11	1020	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	10640	19-11	1020	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	3777	20-11	1114	Sun	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	20-11	1114	Sun	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4003	20-11	1116	Sun	V NG3Y (X3) DE 2QLC (x2) much faster than the one on //4859	CW	(JPL)
M89	4859	20-11	1116	Sun	V NG3Y (X3) DE 2QLC (x2) much faster than the one on //4003	CW	(JPL)
M89	4860	20-11	1120	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	20-11	1120	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	4720	20-11	1130	Sun	V WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	3642	20-11	1616	Sun	V DKG6 (x3) DE 3A7D (x2) //N/H	CW	(JPL)
M89	3777	20-11	1617	Sun	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	20-11	1617	Sun	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)

<b>M89</b>	4003	20-11	1620	Sun	V NG3Y (X3) DE 2QLC (x2) 4003 and 4859 now sending at same speed - slow.	CW	(JPL)
<b>M89</b>	4859	20-11	1620	Sun	V NG3Y (X3) DE 2QLC (x2) 4003 and 4859 now sending at same speed - slow.	CW	(JPL)
<b>M89</b>	4860	20-11	1620	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
<b>M89</b>	6840	20-11	1620	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
<b>M89</b>	4720	20-11	1630	Sun	V WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
<b>M89</b>	4860	20-11	1820	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
<b>M89</b>	6840	20-11	1820	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
<b>M89</b>	6793	21-11	0901	Mon	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
<b>M89</b>	3777	21-11	0902	Mon	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
<b>M89</b>	4532	21-11	0902	Mon	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
<b>M89</b>	6093	21-11	0907	Mon	V NG3Y (X3) DE 2QLC (x2)	CW	(JPL)
<b>M89</b>	6111	21-11	0927	Mon	i.p. R HR WK NR 218 218 OK NIL SK GB	CW	(JPL)
<b>M89</b>	5318	21-11	0955	Mon	i.p. QSA 2 QSA ? K. R Q.. 4. K. HR 7G K. NR 1121/CCK CK 9.. 1121 .. 7 RMKS ..7.3 TO 6.24 K =	CW	(JPL)
<b>M89</b>	4392	21-11	1013	Mon	i.p. A57T 5.7N N.A. 44DA U5U6 5D.5 III = TNNN N464 AA7A UNNT ... AR	CW	(JPL)
<b>M89</b>	5801	21-11	1019	Mon	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
<b>M89</b>	10180	21-11	1019	Mon	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
<b>M89</b>	6840	21-11	1020	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
<b>M89</b>	10640	21-11	1020	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
<b>M89</b>	5075	21-11	1039	Mon	i.p. NTTNNA DUDN II = 445T AR K. U5XY U5XY DE RC3U RC3U K (see N&O 230)	CW	(JPL)
<b>M89</b>	4860	21-11	1120	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
<b>M89</b>	6840	21-11	1120	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
<b>M89</b>	4085	21-11	1125	Mon	i.p. I2CP/Z5O AR R OK R MSG GA K. R R MSG NR NR 6422 CK 300 76 1121 1902 =	CW	(JPL)
<b>M89</b>	4003	21-11	1129	Mon	V NG3Y (X3) DE 2QLC (x2) //4859	CW	(JPL)
<b>M89</b>	4859	21-11	1129	Mon	V NG3Y (X3) DE 2QLC (x2) //4003	CW	(JPL)
<b>M89</b>	3642	21-11	1403	Mon	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
<b>M89</b>	3777	21-11	1405	Mon	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
<b>M89</b>	4532	21-11	1405	Mon	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
<b>M89</b>	4003	21-11	1406	Mon	V NG3Y (X3) DE 2QLC (x2) //4859	CW	(JPL)
<b>M89</b>	4859	21-11	1406	Mon	V NG3Y (X3) DE 2QLC (x2) //4003	CW	(JPL)
<b>M89</b>	4860	21-11	1420	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
<b>M89</b>	6840	21-11	1420	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
<b>M89</b>	3381	21-11	1426	Mon	i.p. 47T3 4D.. N5.A A.N 7634 AT5A U7NT ... AR K	CW	(JPL)
<b>M89</b>	4720	21-11	1430	Mon	V WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
<b>M89</b>	4131	21-11	1702	Mon	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
<b>M89</b>	3642	21-11	1704	Mon	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
<b>M89</b>	7602	21-11	1704	Mon	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
<b>M89</b>	3777	22-11	0859	Tue	V M8JF (x3) DE RIS9 (x2) //4530 and 8060	CW	(JPL)
<b>M89</b>	4530	22-11	0859	Tue	V M8JF (x3) DE RIS9 (x2) //3777 and 8060 New frequency for this R/S	CW	(JPL)
<b>M89</b>	8060	22-11	0859	Tue	V M8JF (x3) DE RIS9 (x2) //3777 and 4530	CW	(JPL)
<b>M89</b>	6093	22-11	0951	Tue	V NG3Y (X3) DE 2QLC (x2)	CW	(JPL)
<b>M89</b>	3777	22-11	1005	Tue	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
<b>M89</b>	4532	22-11	1005	Tue	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
<b>M89</b>	5801	22-11	1008	Tue	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
<b>M89</b>	10180	22-11	1008	Tue	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
<b>M89</b>	6840	22-11	1020	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
<b>M89</b>	6847	22-11	1020	Tue	i.p. R QSA 1 K. R IEC BT 5457 AR K (see N&O 230)	CW	(JPL)
<b>M89</b>	10640	22-11	1020	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
<b>M89</b>	6847	22-11	1034	Tue	i.p. 753U 547A AUT4 D5UN D354 ... III 3P = A3U4 5T67 67AD (see N&O 230)	CW	(JPL)

M89	4860	22-11	1120	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	22-11	1120	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	4720	22-11	1130	Tue	V WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4003	22-11	1203	Tue	V NG3Y (X3) DE 2QLC (x2) //4859	CW	(JPL)
M89	4859	22-11	1203	Tue	V NG3Y (X3) DE 2QLC (x2) //4003	CW	(JPL)
M89	3642	22-11	1205	Tue	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	22-11	1205	Tue	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	3777	22-11	1207	Tue	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	22-11	1207	Tue	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	3787	22-11	1213	Tue	i.p. A456 7ND3 5A3D ... AR QSL ? EEEE HR WK NR 220 QSA ? K	CW	(JPL)
M89	3642	22-11	1555	Tue	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	4003	22-11	1556	Tue	V NG3Y (X3) DE 2QLC (x2) //4859	CW	(JPL)
M89	4859	22-11	1556	Tue	V NG3Y (X3) DE 2QLC (x2) //4003	CW	(JPL)
M89	6093	23-11	0858	Wed	V NG3Y (X3) DE 2QLC (x2) MSG NR 091 CK 301 MSG NR 091 CK 301 7. 1123 1700 = A4.. 4N3TAN 56NU43UDN3DTA ...	CW	(JPL)
M89	5801	23-11	0943	Wed	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	6840	23-11	1020	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	10640	23-11	1020	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6847	23-11	1118	Wed	i.p. 4A45 5474 AU3A 74DN 4N63 ...	CW	(JPL)
M89	4860	23-11	1120	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	23-11	1120	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	3642	23-11	1542	Wed	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	23-11	1542	Wed	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	3777	23-11	1544	Wed	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	23-11	1544	Wed	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4003	23-11	1546	Wed	V NG3Y (X3) DE 2QLC (x2)	CW	(JPL)
M89	4131	23-11	1603	Wed	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4860	23-11	1720	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	23-11	1720	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	4859	23-11	1723	Wed	V NG3Y (X3) DE 2QLC (x2)	CW	(JPL)
M89	5801	24-11	1155	Thu	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	4003	24-11	1157	Thu	2QLC i.p.: 564N UTDT D6NU 4D6N UT4N AUAN ... III = DANT 7UA6 TUN3 D6D3 A5N7	CW	(JPL)
M89	4859	24-11	1157	Thu	V NG3Y (X3) DE 2QLC (x2) //4003	CW	(JPL)
M89	4859	24-11	1157	Wed	V NG3Y (X3) DE 2QLC (x2)	CW	(JPL)
M89	3777	24-11	1212	Thu	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	24-11	1212	Thu	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4860	24-11	1220	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	24-11	1220	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	4720	24-11	1230	Thu	V WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	3642	24-11	1305	Thu	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	24-11	1305	Thu	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4860	24-11	1320	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	24-11	1320	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	4003	25-11	1111	Fri	V NG3Y (X3) DE 2QLC (x2) //4859	CW	(JPL)
M89	4859	25-11	1111	Fri	V NG3Y (X3) DE 2QLC (x2) //4003	CW	(JPL)
M89	3777	25-11	1112	Fri	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	25-11	1112	Fri	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4860	25-11	1120	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	25-11	1120	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	4720	25-11	1130	Fri	V WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4003	25-11	1313	Fri	V NG3Y (X3) DE 2QLC (x2) //4859	CW	(JPL)
M89	4859	25-11	1313	Fri	V NG3Y (X3) DE 2QLC (x2) //4003	CW	(JPL)
M89	3777	25-11	1316	Fri	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	25-11	1316	Fri	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)



M89	3642	25-11	1318	Fri	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	25-11	1318	Fri	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4860	25-11	1320	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	25-11	1320	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	6840	27-11	0920	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	10640	27-11	0920	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //68400	CW	(JPL)
M89	6093	27-11	0922	Sun	V NG3Y (X3) DE 2QLC (x2)	CW	(JPL)
M89	4003	27-11	1327	Sun	V NG3Y (X3) DE 2QLC (x2) //4859	CW	(JPL)
M89	4859	27-11	1327	Sun	V NG3Y (X3) DE 2QLC (x2) //4003	CW	(JPL)
M89	4720	27-11	1330	Sun	VVV WNF DE FXM V WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	3777	27-11	1331	Sun	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	27-11	1331	Sun	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	3642	27-11	1335	Sun	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	27-11	1335	Sun	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4131	27-11	1755	Sun	V JKD (x3) DE SLBC (x2)	CW	(JPL)
M89	3777	27-11	2052	Sun	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	27-11	2052	Sun	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	3642	27-11	2057	Sun	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	27-11	2057	Sun	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4003	27-11	2107	Sun	V NG3Y (X3) DE 2QLC (x2) //4859	CW	(JPL)
M89	4859	27-11	2107	Sun	V NG3Y (X3) DE 2QLC (x2) //4003	CW	(JPL)
M89	6093	28-11	0130	Mon	V NG3Y (X3) DE 2QLC (x2) //10414	CW	(JPL)
M89	10414	28-11	0130	Mon	V NG3Y (X3) DE 2QLC (x2) //6093	CW	(JPL)
M89	6793	28-11	0141	Mon	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	8060	28-11	0141	Mon	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	10233	28-11	0200	Mon	i.p. R NR 2202 CK 61 27 1128 0930 RMKS NR 96 TO NR 94 (see N&O 230)	CW	(JPL)
M89	10233	28-11	0807	Mon	i.p. NR 2194 CK 61 24 1128 1530 K (see N&O 230)	CW	(JPL)
M89	6093	28-11	0808	Mon	V NG3Y (X3) DE 2QLC (x2) //10414	CW	(JPL)
M89	10414	28-11	0808	Mon	2QLC i.p. NR 111 CK 301 70 1128 1600 = 3TUA 7DT AU5T U5A7 3TUA .NAT 75D4 U54T TTT7 TTTT4 ... //6093	CW	(JPL)
M89	10221	28-11	0820	Mon	i.p. MSG GA K. R MSG NR 4577/CCK CK 49 7. 1128 1600 RMKS 48.8 TO 4875 TO ..849 TO 4317 TO 4808 =	CW	(JPL)
M89	8060	28-11	0856	Mon	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	6840	28-11	0920	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	10640	28-11	0920	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	10180	28-11	0924	Mon	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3777	28-11	0934	Mon	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	3642	28-11	1430	Mon	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	4003	28-11	1431	Mon	V NG3Y (X3) DE 2QLC (x2) //4859	CW	(JPL)
M89	4859	28-11	1431	Mon	V NG3Y (X3) DE 2QLC (x2) //4003	CW	(JPL)
M89	3777	28-11	1432	Mon	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	4131	28-11	1731	Mon	V JKD (x3) DE SLBC (x2)	CW	(JPL)
M89	4003	28-11	1732	Mon	V NG3Y (X3) DE 2QLC (x2) //4859	CW	(JPL)
M89	4859	28-11	1732	Mon	V NG3Y (X3) DE 2QLC (x2) //4003	CW	(JPL)
M89	3642	28-11	1734	Mon	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	28-11	1734	Mon	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4577	28-11	1740	Mon	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	6777	29-11	0028	Tue	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	8060	29-11	0028	Tue	RIS9 i.p. COMM = 304/2151/2010/11/29/0900/001/A AR COMM = 304/2151/2010/11/29/0900/001/A AR //6777	CW	(JPL)

M89	6093	29-11	0040	Tue	V NG3Y (X3) DE 2QLC (x2) //10414	CW	(JPL)
M89	10414	29-11	0040	Tue	V NG3Y (X3) DE 2QLC (x2) //6093	CW	(JPL)
M89	10414	29-11	0333	Tue	V NG3Y (X3) DE 2QLC (x2)	CW	(JPL)
M89	6777	29-11	0349	Tue	V M8JF (x3) DE RIS9 (x2) //8060 and 6793	CW	(JPL)
M89	6793	29-11	0349	Tue	V M8JF (x3) DE RIS9 (x2) //8060 and 6777	CW	(JPL)
M89	8060	29-11	0349	Tue	V M8JF (x3) DE RIS9 (x2) //6777 and 6793	CW	(JPL)
M89	4247	29-11	1216	Tue	o.p. R IEC 3159 K. R AS K. R HR MSG TOUCY K (see N&O 230)	CW	(JPL)
M89	4003	29-11	1245	Tue	V NG3Y (X3) DE 2QLC (x2) //4859	CW	(JPL)
M89	4859	29-11	1245	Tue	V NG3Y (X3) DE 2QLC (x2) //4003	CW	(JPL)
M89	3777	29-11	1247	Tue	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	29-11	1247	Tue	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4539	29-11	1254	Tue	i.p. AR K. R RPT RPT RPT RPT R R SK	CW	(JPL)
M89	4003	29-11	1312	Tue	2QLC i.p. MSG NR 116 CK 301 70 1129 2100 = UAN6 3TD7 T5D7 735T 64U5 N37T UDU7 TUDA TT7A TTTN ... III = U74U AR //4859	CW	(JPL)
M89	4859	29-11	1312	Tue	2QLC i.p. MSG NR 116 CK 301 70 1129 2100 = UAN6 3TD7 T5D7 735T 64U5 N37T UDU7 TUDA TT7A TTTN ... III = U74U AR //4003	CW	(JPL)
M89	4085	29-11	1611	Tue	i.p. AR K. R OK	CW	(JPL)
M89	4860	29-11	1620	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	4003	29-11	1622	Tue	V NG3Y (X3) DE 2QLC (x2) //4859	CW	(JPL)
M89	4859	29-11	1622	Tue	V NG3Y (X3) DE 2QLC (x2) //4003	CW	(JPL)
M89	6093	30-11	0019	Wed	V NG3Y (X3) DE 2QLC (x2) //10414	CW	(JPL)
M89	10414	30-11	0019	Wed	V NG3Y (X3) DE 2QLC (x2) //6093	CW	(JPL)
M89	6793	30-11	0026	Wed	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	8060	30-11	0026	Wed	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	6093	30-11	1004	Wed	V NG3Y (X3) DE 2QLC (x2) //10414	CW	(JPL)
M89	10414	30-11	1004	Wed	V NG3Y (X3) DE 2QLC (x2) //6093	CW	(JPL)
M89	5295	30-11	1022	Wed	VVV NTQB NTQB DE XG3H XG3H XG3H K K (see N&O 230)	CW	(JPL)
M89	4392	30-11	1121	Wed	i.p. AU3U UN7D 7UTU 3ATU 7T6D K. GA K. R 3W6 EEEE 3P = 45D3 DADD 7A4U 636A 33TA ...	CW	(JPL)
M89	4003	30-11	1450	Wed	V NG3Y (X3) DE 2QLC (x2) //4859	CW	(JPL)
M89	4859	30-11	1450	Wed	V NG3Y (X3) DE 2QLC (x2) //4003	CW	(JPL)
M89	3777	30-11	1452	Wed	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	30-11	1452	Wed	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	3642	30-11	1456	Wed	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3561	30-11	2038	Wed	i.p. R QSL 0440 K. K GB	CW	(JPL)
M89	4772	30-11	2044	Wed	CYT8 DE UB6I K (see N&O 230)	CW	(JPL)
M95	4243	1-11	0901	Tue	i.p. A HR MS NR 098 CK 23 35 1101 1640 = UT5 TT. ... AR //9054 kHz	CW	(JPL-HK)
M95	9054	1-11	0901	Tue	i.p. A HR MS NR 098 CK 23 35 1101 1640 = UT5 TT. ... AR //4243 kHz	CW	(JPL-HK)
M95	9054	1-11	2348	Tue	VVV HR MSG TOYR PSE CY NR 06. CK .7 35 1102 0623 = .UD UTT TTU ...	CW	(JPL-HK)
M95	4243	2-11	0001	Wed	i.p. NR 03 CK 065 35 1102 0700 = UTU TTU ... TTU 773 ... AR //9054	CW	(JPL-HK)
M95	9054	2-11	0001	Wed	i.p. NR 03 CK 065 35 1102 0700 = UTU TTU ... TTU 773 ... AR //4243 kHz	CW	(JPL-HK)
M95	8073	2-11	0007	Wed	V BNGC (x3) DE XSV85 (x2)	CW	(JPL-HK)
M95	8073	2-11	1138	Wed	V BNGC (x3) DE XSV85 (x2) HR MSG GA NR 0979 CK 239 35 1102 .... =	CW	(JPL-HK)
M95	4243	2-11	1149	Wed	VV HR MSG TOYR PSE GA NR 002 17 35 1102 1536 = UT5 TTU 3U6 3A4 TTA TTU TT3 773 353 N3D ... //9054 kHz	CW	(JPL-HK)
M95	9054	2-11	1149	Wed	VV HR MSG TOYR PSE GA NR 002 17 35 1102 1536 = UT5 TTU 3U6 3A4 TTA TTU TT3 773 353 N3D ... //4243 kHz	CW	(JPL-HK)

<b>M95</b>	5555	3-11	1110	Thu	i.p. 7TT3 6DU5 3U3U UA4U ... NVC1 DE DFGB K. QSA 3 QSA ? K	CW	(JPL-HK)
<b>M95</b>	8073	3-11	1139	Thu	V BNGC (x3) DE XSV85 (x2)	CW	(JPL-HK)
<b>M95</b>	4243	3-11	1200	Thu	VVV = HR MSG TOYR PSE CY NR 009 CK 17 35 1103 1524 = 5TD UTT TT3 3U6 3A4 35U 4AA U7U N4A 445 ... //9054 kHz	CW	(JPL-HK)
<b>M95</b>	9054	3-11	1200	Thu	VVV = HR MSG TOYR PSE CY NR 009 CK 17 35 1103 1524 = 5TD UTT TT3 3U6 3A4 35U 4AA U7U N4A 445 ... //4243 kHz	CW	(JPL-HK)
<b>M95</b>	4243	3-11	2347	Thu	VVV HR 7G TOYR PSE CY NR 006 CK 14 35 1104 0619 = UT5 T...4 3A4 TTA TTU TT3 773 356 36U ... //9054 kHz	CW	(JPL-HK)
<b>M95</b>	9054	3-11	2347	Thu	VVV HR 7G TOYR PSE CY NR 006 CK 14 35 1104 0619 = UT5 T...4 3A4 TTA TTU TT3 773 356 36U ... //4243 kHz	CW	(JPL-HK)
<b>M95</b>	4243	4-11	0001	Fri	AR MSG AGN NR 07 CK 0D8 35 1104 0705 = UT. TT4 3U4 3A4 TTU 773 353 U4T ... //9054 kHz	CW	(JPL-HK)
<b>M95</b>	9054	4-11	0001	Fri	AR MSG AGN NR 07 CK 0D8 35 1104 0705 = UT. TT4 3U4 3A4 TTU 773 353 U4T ... //4243 kHz	CW	(JPL-HK)
<b>M95</b>	4243	4-11	0928	Fri	i.p. TTU TT3 773 356 75D 36T 4AA 34. 3D4 T34 ... //9054 kHz	CW	(JPL-HK)
<b>M95</b>	9054	4-11	0928	Fri	i.p. TTU TT3 773 356 75D 36T 4AA 34. 3D4 T34 ... //4243 kHz	CW	(JPL-HK)
<b>M95</b>	8073	4-11	1138	Fri	V BNGC (x3) DE XSV85 (x2)	CW	(JPL-HK)
<b>M95</b>	4243	4-11	1149	Fri	VV HR 7G TOYR PSE CY NR 010 CK 19 35 1104 1530 = 57U 743 3U6 3A4 35U 4AA N3D 4T3 U7U ... //9054 kHz	CW	(JPL-HK)
<b>M95</b>	9054	4-11	1149	Fri	VV HR 7G TOYR PSE CY NR 010 CK 19 35 1104 1530 = 57U 743 3U6 3A4 35U 4AA N3D 4T3 U7U ... //4243 kHz	CW	(JPL-HK)
<b>M95</b>	5829	7-11	0936	Mon	RMKS 6507 TO 8017 TO 607 III OK QSL OK HR MSG GA = 34DN NA.. U3D4 4T7D D354 4T7U 53D4 ...	CW	(JPL-HK)
<b>M95</b>	4243	8-11	1148	Tue	VVV HR MSG TOYR PSE CY NR 018 29 35 1108 1537 = 5TD UTT TTD 3U6 7TA N44 3A4 353 ...	CW	(JPL-HK)
<b>M95</b>	4243	8-11	2343	Tue	V HR 7G TOYR PSE CY NR 027 CK 17 35 1109 0600 = UT5 ... //9054 kHz	CW	(JPL-HK)
<b>M95</b>	9054	8-11	2343	Tue	V HR 7G TOYR PSE CY NR 027 CK 17 35 1109 0600 = UT5 ... //4243 kHz	CW	(JPL-HK)
<b>M95</b>	4243	9-11	1147	Wed	V HR MSG TOYR PSE CY NR 020 CK 27 35 AA0N 1530 = 5TD UTT TTN 3U6 3A4 354 373 ... AR //9054 kHz	CW	(JPL-HK)
<b>M95</b>	9054	9-11	1147	Wed	V HR MSG TOYR PSE CY NR 020 CK 27 35 AA0N 1530 = 5TD UTT TTN 3U6 3A4 354 373 ... AR //4243 kHz	CW	(JPL-HK)
<b>M95</b>	4243	10-11	1147	Thu	V A HR 7G TOYR PSE CY NR 022 CK 31 35 1110 1525 = 5TD UTT T.T 3U6 7TA N44 3A4 353 ... AR //9054 kHz	CW	(JPL-HK)
<b>M95</b>	9054	10-11	1147	Thu	V A HR 7G TOYR PSE CY NR 022 CK 31 35 1110 1525 = 5TD UTT T.T 3U6 7TA N44 3A4 353 ... AR //4243 kHz	CW	(JPL-HK)
<b>M95</b>	8073	11-11	1138	Fri	V BNGC (x3) DE XSV85 (x2)	CW	(JPL-HK)
<b>M95</b>	4243	11-11	1148	Fri	VV HR MSG TOYR PSE CY NR 024 CK 19 35 1111 1515 = 5TD UTT T AA3 UT5 3A4 ... AR //9054 kHz	CW	(JPL-HK)
<b>M95</b>	9054	11-11	1148	Fri	VV HR MSG TOYR PSE CY NR 024 CK 19 35 1111 1515 = 5TD UTT T AA3 UT5 3A4 ... AR //4243 kHz	CW	(JPL-HK)
<b>M95</b>	8073	12-11	1136	Sat	V BNGC (x3) DE XSV85 (x2) HR 7G GA PSE CY NR .115 CK 179 35 1112 1604 = TAU 3U6 3AN 3U7 TAU 773 ...	CW	(JPL-HK)
<b>M95</b>	8073	14-11	0004	Mon	Only sent a few very weak VVV, then silent	CW	(JPL-HK)

M95	4283	14-11	0915	Mon	V BNAC(x3) DE XSV70 (x2) HR MSG TOYR PSE CY NR 1043 CK 128 35 1114 1535 ... //7553 kHz	CW	(JPL-HK)
M95	7553	14-11	0915	Mon	V BNAC(x3) DE XSV70 (x2) HR MSG TOYR PSE CY NR 1043 CK 128 35 1114 1535 ... //4283 kHz	CW	(JPL-HK)
M95	4283	15-11	0913	Tue	V BNAC(x3) DE XSV70 (x2) HR MSG NR 10.. CK ..6 35 1015 16.1 = //7553 kHz	CW	(JPL-AUS)
M95	7553	15-11	0913	Tue	V BNAC(x3) DE XSV70 (x2) HR MSG NR 10.. CK ..6 35 1015 16.1 = //4283 kHz	CW	(JPL-AUS)
M95	4243	15-11	1145	Tue	VVV HR MSG TOYR PSE CY NR 032 CK 19 35 1115 15AT = 4T. UTT TA5 3U6 3U6 3A4 35U 4TA N3D 4TN //9054 kHz	CW	(JPL-AUS)
M95	9054	15-11	1145	Tue	VVV HR MSG TOYR PSE CY NR 032 CK 19 35 1115 15AT = 4T. UTT TA5 3U6 3U6 3A4 35U 4TA N3D 4TN //4243 kHz	CW	(JPL-AUS)
M95	4243	16-11	1147	Wed	VV HR MSG TOYR PSE CY NR 034 CK 17 35 1116 1513 = 5TD UTT TAT 53U ... //9054 kHz	CW	(JPL)
M95	9054	16-11	1147	Wed	VV HR MSG TOYR PSE CY NR 034 CK 17 35 1116 1513 = 5TD UTT TAT 53U ... //4243 kHz	CW	(JPL)
M95	5555	16-11	2324	Wed	i.p. VVV WXXXXX = AU34567DNA = AR AR LL AR L AU. AR AR AR	CW	(JPL)
M95	4243	16-11	2346	Wed	VV 7G TOYR PSE CY NR 051 CK 17 35 1117 0613 = UT5 TA7 3U4 3A4 TTA TTU TT3 773 ... //9054 kHz	CW	(JPL)
M95	9054	16-11	2346	Wed	VV 7G TOYR PSE CY NR 051 CK 17 35 1117 0613 = UT5 TA7 3U4 3A4 TTA TTU TT3 773 ... //4243 kHz	CW	(JPL)
M95	4243	17-11	0001	Thu	i.p. 7G AGN NR 33 CK 66 35 1117 0705 = UTU TA7 3U4 3A4 TTU ... //9054 kHz	CW	(JPL-HK)
M95	9054	17-11	0001	Thu	i.p. 7G AGN NR 33 CK 66 35 1117 0705 = UTU TA7 3U4 3A4 TTU ... //4243 kHz	CW	(JPL-HK)
M95	4283	17-11	0931	Thu	XSV70 i.p. 446 III N3D 44. 4D6 ... 7G AGN //7553 kHz	CW	(JPL-HK)
M95	7553	17-11	0931	Thu	XSV70 i.p. 446 III N3D 44. 4D6 ... 7G AGN //4283 kHz	CW	(JPL-HK)
M95	4243	17-11	1148	Thu	VVV HR 7G TOYR PSE CY NR 053 CK 16 35 1117 1508 = UT5 TA7 3U6 3A4 TTA TTU TT3 773 35U ... //9054 kHz	CW	(JPL-HK)
M95	9054	17-11	1148	Thu	VVV HR 7G TOYR PSE CY NR 053 CK 16 35 1117 1508 = UT5 TA7 3U6 3A4 TTA TTU TT3 773 35U ... //4243 kHz	CW	(JPL-HK)
M95	8073	18-11	1138	Fri	V BNGC (x3) DE XSV85 (x2)	CW	(JPL-HK)
M95	9054	18-11	1159	Fri	VVV HR 7G TOYR PSE CY NR 042 CK 29 35 1120 1527 = 5TD UTT TUT 3U6 7AN 443 A43 ...	CW	(JPL-HK)
M95	4283	19-11	1006	Sat	XSV70 i.p. 4UT N3D 4T3 445 ... 7G AGN NR 1057 CK 146 35 1119 0.19 4UA UT3 TAN 3U4 3A. TT4 773 354 U4D 353 4A5 N3D ... ZNN SK //7553 kHz	CW	(JPL-HK)
M95	7553	19-11	1006	Sat	XSV70 i.p. 4UT N3D 4T3 445 ... 7G AGN NR 1057 CK 146 35 1119 0.19 4UA UT3 TAN 3U4 3A. TT4 773 354 U4D 353 4A5 N3D ... ZNN SK //4283 kHz	CW	(JPL-HK)
M95	4283	21-11	0910	Mon	V BNEC (x3) DE XSV70 (x2) A HR MSG TOYR PSE CY NR 1064 CK 100 35 1121 1530 ... //7553 kHz	CW	(JPL-HK)
M95	7554	21-11	0910	Mon	V BNEC (x3) DE XSV70 (x2) A HR MSG TOYR PSE CY NR 1064 CK 100 35 1121 1530 ... //4283 kHz	CW	(JPL-HK)
M95	8073	21-11	1141	Mon	V BNGC (x3) DE XSV85 (x2) HR MSG GA PSE CY NR 1034 CK 55 35 1121 1554 = T5T TU. N.3 ...	CW	(JPL-NZL)
M95	4243	21-11	1155	Mon	i.p. AR 7G AGN NR 044 CK 23 35 1121 1510 = 5TD UTT TUA 3U6 7TA N44 3A4 354 373 N3D ... //9054 kHz	CW	(JPL-NZL)
M95	9054	21-11	1155	Mon	i.p. AR 7G AGN NR 044 CK 23 35 1121 1510 = 5TD UTT TUA 3U6 7TA N44 3A4 354 373 N3D ... /4243 kHz	CW	(JPL-NZL)



<b>M95</b>	7553	22-11	0910	Tue	V BNEC (x3) DE XSV70 (x2) A HR 7G TOYR PSE CY NR 065 CK 1. 12 0.	CW	(JPL-NZL)
<b>M95</b>	4863	22-11	1013	Tue	i.p. 05 05 05	CW	(JPL-NZL)
<b>M95</b>	8072	22-11	1141	Tue	V BNGC (x3) DE XSV85 (x2) HR MSGS GA PSE CY NR 1038 CK 264 35 1122 1607 = TUU 3U6 3A. 3U7 TAU 773 ...	CW	(JPL-NZL)
<b>M95</b>	4243	22-11	1150	Tue	VVV VVV V HR MSG TOYR PSE CY NR 045 CK 22 35 1122 1516 = 5TU ..U3UTA 7KN 443 A43 543 ... //9054 kHz	CW	(JPL-NZL)
<b>M95</b>	4243	22-11	1150	Tue	V (Switched to CW - Handsent) //9054 kHz	CW	(JPL-NZL)
<b>M95</b>	9054	22-11	1150	Tue	VVV VVV V HR MSG TOYR PSE CY NR 045 CK 22 35 1122 1516 = 5TU ..U3UTA 7KN 443 A43 543 ... //4243 kHz	CW	(JPL-NZL)
<b>M95</b>	9054	22-11	1150	Tue	V (Switched to CW - Handsent) //4243 kHz	CW	(JPL-NZL)
<b>M95</b>	9153	23-11	0917	Wed	V BNEC (x3) DE XSV70 (x2) HR MSG TOYR PSE CY NR 69 CK 53 49 1123 1700 64T U46 34A U3A 346 DTT 6N5 ...	CW	(JPL-NZL)
<b>M95</b>	5555	23-11	0951	Wed	i.p. 5555 M 7G NR 3312 CK 210 56 1123 0620 RMKEEEE 3UUV = 3T3A 64DT A75D 4TTN 4A4A 7746 7NDU NDDA 754N DT6T N35D ...	CW	(JPL-NZL)
<b>M95</b>	5138	23-11	1031	Wed	i.p. 735T AR K. R QSL ... (Both stations on this frequency) R U GA. NR 1123/CCK CK 19 66 1123 1831 =	CW	(JPL-NZL)
<b>M95</b>	4364	23-11	1140	Wed	V BNGC (x3) DE XSV85 (x2) HR MSGS GA PSE CY NR 1043 CK 29. 35 1123 1557 = .33 A.. A 3U7 TAU 773 ... //8073 kHz	CW	(JPL-NZL)
<b>M95</b>	8073	23-11	1140	Wed	V BNGC (x3) DE XSV85 (x2) HR MSGS GA PSE CY NR 1043 CK 29. 35 1123 1557 = .33 A.. A 3U7 TAU 773 ... //4364 kHz	CW	(JPL-NZL)
<b>M95</b>	4243	23-11	1150	Wed	i.p. 7G AGN NR 048 CK 20 35 1123 1518 = 5T7 UTT TU3 3U6 3A4 353 377 4A5 U7U N4A ... //9054 kHz	CW	(JPL-NZL)
<b>M95</b>	9054	23-11	1150	Wed	i.p. 7G AGN NR 048 CK 20 35 1123 1518 = 5T7 UTT TU3 3U6 3A4 353 377 4A5 U7U N4A ... //4243 kHz	CW	(JPL-NZL)
<b>M95</b>	4243	23-11	2348	Wed	V A HR 7G TOYR PSE CY NR 080 CK 15 35 1124 0625 = UT5 TU4 ... //9054 kHz	CW	(JPL-NZL)
<b>M95</b>	9054	23-11	2348	Wed	V A HR 7G TOYR PSE CY NR 080 CK 15 35 1124 0625 = UT5 TU4 ... //4243 kHz	CW	(JPL-NZL)
<b>M95</b>	4364	24-11	1140	Thu	V BNGC (x3) DE XSV85 (x2) HR 7GS GA HR MSG GA NR 1046 CK 279 35 1124 1630 = TU4 3U6 3AN 3U7 TAT 773 ...	CW	(JPL-NZL)
<b>M95</b>	4243	24-11	1147	Thu	VV VV VV HR 7G TOYR PSE CY NR 050 CK 19 35 1124 1522 = 5T. UTT TU4 3U6 3A5 A35 34A 5N4 N3D 4AA ... //9054 kHz	CW	(JPL-NZL)
<b>M95</b>	9054	24-11	1147	Thu	VV VV VV HR 7G TOYR PSE CY NR 050 CK 19 35 1124 1522 = 5T. UTT TU4 3U6 3A5 A35 34A 5N4 N3D 4AA ... //4243 kHz	CW	(JPL-NZL)
<b>M95</b>	4364	25-11	1143	Fri	V BNGC (x3) DE XSV85 (x2) HR MSGS GA NR 1053 CK 45 35 1125 1540 = TAA N5U TU5 N53 TAD ... //9054 kHz	CW	(JPL-HK)
<b>M95</b>	9054	25-11	1143	Fri	V BNGC (x3) DE XSV85 (x2) HR MSGS GA NR 1053 CK 45 35 1125 1540 = TAA N5U TU5 N53 TAD ... //4364 kHz	CW	(JPL-HK)
<b>M95</b>	4243	25-11	1150	Fri	VVV HR MSG TOYR PSE CY NR 052 CK 22 35 1125 1531 = 5T. UTT TU5 3U6 3A4 3.3 N3D 354 3T5 54A ... //9054 kHz	CW	(JPL-HK)
<b>M95</b>	9054	25-11	1150	Fri	VVV HR MSG TOYR PSE CY NR 052 CK 22 35 1125 1531 = 5T. UTT TU5 3U6 3A4 3.3 N3D 354 3T5 54A ... //4243 kHz	CW	(JPL-HK)

<b>M95</b>	7553	27-11	0914	Sun	V BNEC (x3) DE XSV70 (x2) MSG P NR 1.. 5 3 334 51127 1.... //9153 kHz	CW	(JPL)
<b>M95</b>	9153	27-11	0914	Sun	V BNEC (x3) DE XSV70 (x2) MSG P NR 1.. 5 3 334 51127 1.... //7553 kHz	CW	(JPL)
<b>M95</b>	6668	27-11	0929	Sun	TD2S de RLE8 HR MSG GA MSG NR 040/CCK CK 91 05 1127 1730 RMKS CQ = 7TDN UD63 UT3A 7NIUA NDU7 AT7U .637 64N3 ...	CW	(JPL)
<b>M95</b>	4364	27-11	1140	Sun	V BNGC (x3) DE XSV85 (x2) HR MSGS GA PSE CY NR 1070 CK 47 35 1127 1559 = TAA N5U TU7 N53 TAD N54 ... //8073 kHz	CW	(JPL)
<b>M95</b>	8073	27-11	1140	Sun	V BNGC (x3) DE XSV85 (x2) HR MSGS GA PSE CY NR 1070 CK 47 35 1127 1559 = TAA N5U TU7 N53 TAD N54 ... //4364 kHz	CW	(JPL)
<b>M95</b>	4243	27-11	1151	Sun	i.p. 7G AGN NR 54 CK 133 35 AAU7 A6A7 = UTU TU7 3U6 3A4 733 5AU 4T3 534 TA4 464 373 ... //9054 kHz	CW	(JPL)
<b>M95</b>	9054	27-11	1151	Sun	i.p. 7G AGN NR 54 CK 133 35 AAU7 A6A7 = UTU TU7 3U6 3A4 733 5AU 4T3 534 TA4 464 373 ... //4243 kHz	CW	(JPL)
<b>M95</b>	4243	28-11	2350	Mon	3U4 3A4 TTA TTU TT3 773 356 336 ... AR //9054 kHz	CW	(JPL-KOR)
<b>M95</b>	9054	28-11	2350	Mon	3U4 3A4 TTA TTU TT3 773 356 336 ... AR //4243 kHz	CW	(JPL-KOR)
<b>M95</b>	4243	29-11	0001	Tue	i.p. MSG AGN NR 57 CK 81 35 1129 0703 = UTU TUN 3U4 3A4 TTU 773 35A N3D ... AR //9054 kHz	CW	(JPL-KOR)
<b>M95</b>	9054	29-11	0001	Tue	i.p. MSG AGN NR 57 CK 81 35 1129 0703 = UTU TUN 3U4 3A4 TTU 773 35A N3D ... AR //4243 kHz	CW	(JPL-KOR)
<b>M95</b>	4243	29-11	1202	Tue	i.p. 34A N3U 446 4D3 3DA 34A ... AR //9054 kHz	CW	(JPL-KOR)
<b>M95</b>	9054	29-11	1202	Tue	i.p. 34A N3U 446 4D3 3DA 34A ... AR //4243 kHz	CW	(JPL-KOR)
<b>M95</b>	4283	29-11	1330	Tue	i.p. 4T3 446 N3D 445 4D6 ... NR 57 CK 81 35 1129 0703 = //9054 kHz	CW	(JPL-KOR)
<b>M95</b>	9054	29-11	1330	Tue	i.p. 4T3 446 N3D 445 4D6 ... NR 57 CK 81 35 1129 0703 = //4243 kHz	CW	(JPL-KOR)
<b>M95</b>	4243	29-11	2350	Tue	i.p. NR 098 CK 22 35 1130 0626 = UT5 T3T 3U4 3A4 TTA TTU TT3 773 354 365 ... //9054 kHz	CW	(JPL-KOR)
<b>M95</b>	9054	29-11	2350	Tue	i.p. NR 098 CK 22 35 1130 0626 = UT5 T3T 3U4 3A4 TTA TTU TT3 773 354 365 ... //4243 kHz	CW	(JPL-KOR)
<b>M95</b>	4243	30-11	0001	Wed	i.p. 445 34A N3U 446 AR 7G AGN NR 59 CK 115 35 1130 0655 = UTU 3T3 U4 3A4 TTU 773 ... //9054 kHz	CW	(JPL-KOR)
<b>M95</b>	9054	30-11	0001	Wed	i.p. 445 34A N3U 446 AR 7G AGN NR 59 CK 115 35 1130 0655 = UTU 3T3 U4 3A4 TTU 773 ... //4243 kHz	CW	(JPL-KOR)
<b>M95</b>	4283	30-11	0957	Wed	N3D 3DU TT5 TT6 773 354 373 ... III 3D4 TAU 773 357 373 4T3 447 ... ZNN SK	CW	(JPL-KOR)
<b>M95</b>	4243	30-11	1149	Wed	V = IIN AS QRP SENN V NR 062 19 35 1130 1505 = 5TD U.. T3U 6 7TA N44 3A4 353 4.. //9054 kHz	CW	(JPL-KOR)
<b>M95</b>	9054	30-11	1149	Wed	V = IIN AS QRP SENN V NR 062 19 35 1130 1505 = 5TD U.. T3U 6 7TA N44 3A4 353 4.. //4243 kHz	CW	(JPL-KOR)
<b>MX</b>	5156.8	4-11	1745	Fri	Beacon L, St Petersburg	CW	(AB)
<b>MX</b>	5156.8	4-11	1800	Fri	Beacon L, St Petersburg	CW	(MPJ)
<b>MX</b>	13528.2	10-11	0608	Thu	Beacon F, Vladivostok	CW	(AB)
<b>MX</b>	16332.2	10-11	0608	Thu	Beacon F, Vladivostok	CW	(AB)
<b>MX</b>	16332.4	10-11	0608	Thu	Beacon M, Magadan	CW	(AB)
<b>MX</b>	3594.7	11-11	2145	Fri	Beacon D, Sevastopol	CW	(AB)
<b>MX</b>	3595	11-11	2145	Fri	Beacon C, Moscow	CW	(AB)

<b>MX</b>	3658	16-11	1749	Wed	Beacon V	CW	(AB-POL)
<b>MX</b>	5153.9	16-11	1803	Wed	Beacon S, Severomorsk	CW	(MPJ)
<b>MX</b>	5156.8	16-11	1804	Wed	Beacon L, St Peterburg	CW	(MPJ)
<b>MX</b>	5154	16-11	1805	Wed	Beacon C, Moscow	CW	(MPJ)
<b>Q26</b>	4243	1-11	0911	Tue	Messages //9054 kHz	4+4 QPSK 75/3000 LSB	(JPL-HK)
<b>Q26</b>	9054	1-11	0911	Tue	Messages //4243 kHz	4+4 QPSK 75/3000 LSB	(JPL-HK)
<b>Q26</b>	8073	2-11	0002	Wed	Messages i.p.	4+4 QPSK 75/3000 LSB	(JPL-HK)
<b>Q26</b>	4243	2-11	1145	Wed	Messages i.p. //9054 kHz	4+4 QPSK 75/3000 LSB	(JPL-HK)
<b>Q26</b>	9054	2-11	1145	Wed	Messages i.p. //4243 kHz	4+4 QPSK 75/3000 LSB	(JPL-HK)
<b>Q26</b>	8073	3-11	1131	Thu	Messages	4+4 QPSK 75/3000 LSB	(JPL-HK)
<b>Q26</b>	4243	3-11	1141	Thu	Messages. Restarted at 1155z //9054 kHz	4+4 QPSK 75/3000 LSB	(JPL-HK)
<b>Q26</b>	9054	3-11	1141	Thu	Messages. Restarted at 1155z //4243 kHz	4+4 QPSK 75/3000 LSB	(JPL-HK)
<b>Q26</b>	4243	3-11	2341	Thu	Messages. Restarted at 1155z //9054 kHz	4+4 QPSK 75/3000 LSB	(JPL-HK)
<b>Q26</b>	9054	3-11	2341	Thu	Messages. Restarted at 1155z //4243 kHz	4+4 QPSK 75/3000 LSB	(JPL-HK)
<b>Q26</b>	8073	4-11	1131	Fri	Messages	4+4 QPSK 75/3000 LSB	(JPK-HK)
<b>Q26</b>	4243	4-11	1142	Fri	Messages //9054 kHz	4+4 QPSK 75/3000 LSB	(JPK-HK)
<b>Q26</b>	9054	4-11	1142	Fri	Messages //4243 kHz	4+4 QPSK 75/3000 LSB	(JPK-HK)
<b>Q26</b>	9054	7-11	2342	Mon	Messages	4+4 QPSK 75/3000 LSB	(Dan)
<b>Q26</b>	4243	8-11	1144	Tue	Messages	4+4 QPSK 75/3000 LSB	(JPL-HK)
<b>Q26</b>	4243	8-11	2339	Tue	Messages //9054 kHz	4+4 QPSK 75/3000 LSB	(JPL-HK)
<b>Q26</b>	9054	8-11	2339	Tue	Messages //4243 kHz	4+4 QPSK 75/3000 LSB	(JPL-HK)
<b>Q26</b>	4243	9-11	1141	Wed	Messages //9054 kHz	4+4 QPSK 75/3000 LSB	(JPL-HK)
<b>Q26</b>	9054	9-11	1141	Wed	Messages //4243 kHz	4+4 QPSK 75/3000 LSB	(JPL-HK)
<b>Q26</b>	4243	10-11	1142	Thu	Messages //9054 kHz	4+4 QPSK 75/3000 LSB	(JPL-HK)
<b>Q26</b>	9054	10-11	1142	Thu	Messages //4243 kHz	4+4 QPSK 75/3000 LSB	(JPL-HK)
<b>Q26</b>	8073	11-11	1132	Fri	Messages	4+4 QPSK 75/3000 LSB	(JPL-HK)
<b>Q26</b>	4243	11-11	1142	Fri	Messages //9054 kHz	4+4 QPSK 75/3000 LSB	(JPL-HK)
<b>Q26</b>	9054	11-11	1142	Fri	Messages //4243 kHz	4+4 QPSK 75/3000 LSB	(JPL-HK)
<b>Q26</b>	9054	11-11	2237	Fri	Messages	4+4 QPSK 75/3000 LSB	(Dan)
<b>Q26</b>	9054	11-11	2342	Fri	Messages	4+4 QPSK 75/3000 LSB	(Dan)
<b>Q26</b>	8073	12-11	1132	Sat	Messages	4+4 QPSK 75/3000 LSB	(JPL-HK)

<b>Q26</b>	8073	14-11	0001	Mon	Messages	4+4 QPSK 75/3000 LSB	(JPL-HK)
<b>Q26</b>	4283	14-11	0902	Mon	Messages //7553 kHz	4+4 QPSK 75/3000 LSB	(JPL-HK)
<b>Q26</b>	7553	14-11	0902	Mon	Messages //4283 kHz	4+4 QPSK 75/3000 LSB	(JPL-HK)
<b>Q26</b>	4283	15-11	0907	Tue	Messages i.p. //7553 kHz	4+4 QPSK 75/3000 LSB	(JPL-AUS)
<b>Q26</b>	7553	15-11	0907	Tue	Messages i.p. //4283 kHz	4+4 QPSK 75/3000 LSB	(JPL-AUS)
<b>Q26</b>	4243	15-11	1143	Tue	Messages i.p. //9054 kHz	4+4 QPSK 75/3000 LSB	(JPL-AUS)
<b>Q26</b>	9054	15-11	1143	Tue	Messages i.p. //4243 kHz	4+4 QPSK 75/3000 LSB	(JPL-AUS)
<b>Q26</b>	4243	16-11	1141	Wed	Messages //9054 kHz	4+4 QPSK 75/3000 LSB	(JPL)
<b>Q26</b>	9054	16-11	1141	Wed	Messages //4243 kHz	4+4 QPSK 75/3000 LSB	(JPL)
<b>Q26</b>	4243	16-11	2342	Wed	Messages //9054 kHz	4+4 QPSK 75/3000 LSB	(JPL)
<b>Q26</b>	9054	16-11	2342	Wed	Messages //4243 kHz	4+4 QPSK 75/3000 LSB	(JPL)
<b>Q26</b>	4243	17-11	1142	Thu	Message //9054 kHz	4+4 QPSK 75/3000 LSB	(JPL-HK)
<b>Q26</b>	9054	17-11	1142	Thu	Message //4243 kHz	4+4 QPSK 75/3000 LSB	(JPL-HK)
<b>Q26</b>	8073	18-11	1131	Fri	Messages	4+4 QPSK 75/3000 LSB	(JPL-HK)
<b>Q26</b>	9054	18-11	1143	Fri	Messages	4+4 QPSK 75/3000 LSB	(JPL-HK)
<b>Q26</b>	4283	21-11	0901	Mon	Messages //7553 kHz	4+4 QPSK 75/3000 LSB	(JPL-HK)
<b>Q26</b>	7553	21-11	0901	Mon	Messages //4283 kHz	4+4 QPSK 75/3000 LSB	(JPL-HK)
<b>Q26</b>	8073	21-11	1132	Mon	Messages	4+4 QPSK 75/3000 LSB	(JPL-NZL)
<b>Q26</b>	7553	22-11	0901	Tue	Messages	4+4 QPSK 75/3000 LSB	(JPL-NZL)
<b>Q26</b>	8073	22-11	1132	Tue	Messages	4+4 QPSK 75/3000 LSB	(JPL-NZL)
<b>Q26</b>	4243	22-11	1143	Tue	Messages //9054 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
<b>Q26</b>	4243	22-11	1143	Tue	Messages //9054 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
<b>Q26</b>	9054	22-11	1143	Tue	Messages //4243 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
<b>Q26</b>	9054	22-11	1143	Tue	Messages //4243 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
<b>Q26</b>	9153	23-11	0903	Wed	Messages	4+4 QPSK 75/3000 LSB	(JPL-NZL)
<b>Q26</b>	4364	23-11	1132	Wed	Messages //8073 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
<b>Q26</b>	8073	23-11	1132	Wed	Messages //4364 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
<b>Q26</b>	9054	23-11	2343	Wed	Messages	4+4 QPSK 75/3000 LSB	(Dan)
<b>Q26</b>	4243	23-11	2345	Wed	Messages //9054 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)

<b>Q26</b>	9054	23-11	2345	Wed	Messages //4243 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
<b>Q26</b>	4364	24-11	1138	Thu	Messages	4+4 QPSK 75/3000 LSB	(JPL-NZL)
<b>Q26</b>	4243	24-11	1143	Thu	Messages //9054 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
<b>Q26</b>	9054	24-11	1143	Thu	Messages //4243 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
<b>Q26</b>	4283	24-11	1306	Thu	XSV70 Messages (not followed by M95)	4+4 QPSK 75/3000 LSB	(JPL-NZL)
<b>Q26</b>	4364	25-11	1131	Fri	Messages //9054 kHz	4+4 QPSK 75/3000 LSB	(JPL-HK)
<b>Q26</b>	9054	25-11	1131	Fri	Messages //4364 kHz	4+4 QPSK 75/3000 LSB	(JPL-HK)
<b>Q26</b>	4243	25-11	1147	Fri	Message //9054 kHz	4+4 QPSK 75/3000 LSB	(JPL-HK)
<b>Q26</b>	9054	25-11	1147	Fri	Message //4243 kHz	4+4 QPSK 75/3000 LSB	(JPL-HK)
<b>Q26</b>	7553	27-11	0903	Sun	Messages //9153 kHz	4+4 QPSK 75/3000 LSB	(JPL)
<b>Q26</b>	9153	27-11	0903	Sun	Messages //7553 kHz	4+4 QPSK 75/3000 LSB	(JPL)
<b>Q26</b>	4364	27-11	1134	Sun	Messages //8073 kHz	4+4 QPSK 75/3000 LSB	(JPL)
<b>Q26</b>	8073	27-11	1134	Sun	Messages //4364 kHz	4+4 QPSK 75/3000 LSB	(JPL)
<b>Q26</b>	7553	28-11	0901	Mon	XSV70: messages //9153 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
<b>Q26</b>	9153	28-11	0901	Mon	XSV70: messages //7553 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
<b>Q26</b>	4243	30-11	1144	Wed	Messages //9054 kHz	4+4 QPSK 75/3000 LSB	(JPL-KOR)
<b>Q26</b>	9054	30-11	1144	Wed	Messages //4243 kHz	4+4 QPSK 75/3000 LSB	(JPL-KOR)
<b>RAv</b>	18030	15-11	1255	Tue	Russian Air Force. Korsar wkg Uprava, Davlenie, Kazachok, Katolik, Kasten, and other stations	USB	(AB)
<b>RAv</b>	8131	17-11	0740	Thu	Russian Air Force Tu-95MS Bear H voice net	USB	(Tom)
<b>S06</b>	7812	4-11	2000	Fri	761 761 761 00000	USB	(HFD)
<b>S06</b>	5736	4-11	2100	Fri	761 761 761 00000	USB	(HFD)
<b>S06</b>	4031	5-11	2000	Sat	614 614 614 00000	USB	(HFD)
<b>S06</b>	10755	9-11	0940	Wed	975 482 50 26908 57206 26836 ... 83342 47443 38629 482 50 00000	USB	(uascan)
<b>S06</b>	10755	10-11	0621	Thu	975 975 975 ...	USB	(Dan)
<b>S06</b>	19875	10-11	0830	Thu	842 ...	USB	(AB-RUS)
<b>S06</b>	16067	11-11	0930	Fri	842 ...	USB	(AB-J)
<b>S06</b>	13397	16-11	1500	Wed	387 402 51 50517 66491 ... 28402 96949 402 51 00000	USB	(Danix)
<b>S06</b>	9194	16-11	1600	Wed	387 402 51 50517 66491 ... 28402 96949 402 51 00000	USB	(Danix)
<b>S06</b>	19875	17-11	0830	Thu	842 ...	USB	(AB)
<b>S06</b>	13397	17-11	1500	Thu	387 402 51 50517 66491 45094 ... 39035 28402 96949 402 51 00000	USB	(AB-I)
<b>S06</b>	9194	17-11	1600	Thu	387 402 51 50517 66491 45094 ... 39035 28402 96949 402 51 00000	USB	(AB-I)
<b>S06</b>	7812	18-11	2000	Fri	761 761 761 00000	USB	(AB)
<b>S06</b>	5733	18-11	2100	Fri	761 761 761 00000	USB	(AB)
<b>S06</b>	4031	19-11	2000	Sat	614 614 614 00000	USB	(HFD)
<b>S06</b>	3513	19-11	2100	Sat	614 614 614 00000	USB	(HFD)

S06s	16145	1-11	0600	Tue	438 276 5 46062 68672 97498 39685 30485 276 5 00000	USB	(AB-RUS)
S06s	14240	1-11	0610	Tue	438 276 5 46062 68672 97498 39685 30485 276 5 00000	USB	(AB-RUS)
S06s	5250	1-11	0700	Tue	374 951 6 88620 58069 61732 74537 57440 10597 951 6 00000	USB	(AB-FNL)
S06s	6320	1-11	0715	Tue	374 951 6 88620 58069 61732 74537 57440 10597 951 6 00000	USB	(AB-FNL)
S06s	7410	1-11	0730	Tue	427 980 5 94428 17454 24011 41584 68592 980 5 00000	USB	(AB)
S06s	11532	1-11	0740	Tue	427 980 5 94428 17454 24011 41584 68592 980 5 00000	USB	(AB)
S06s	11945	1-11	0800	Tue	352 906 7 73668 49575 35325 85342 52215 64752 59774 906 7 00000	USB	(AB/ES/HFD)
S06s	13195	1-11	0810	Tue	352 906 7 73668 49575 35325 85342 52215 64752 59774 906 7 00000	USB	(AB/HFD)
S06s	6440	1-11	1000	Tue	893 415 6 61830 54635 74493 43164 54497 91414 415 6 00000	USB	(AB/ES/HFD)
S06s	5660	1-11	1010	Tue	893 415 6 61830 54635 74493 43164 54497 91414 415 6 00000	USB	(AB/HFD)
S06s	5035	1-11	1100	Tue	754 912 6 06445 36574 24712 46919 49548 64873 912 6 00000	USB	(AB-POL/ES/HFD )
S06s	5975	1-11	1110	Tue	754 912 6 06445 36574 24712 46919 49548 64873 912 6 00000	USB	(AB-POL/HFD)
S06s	6845	1-11	1500	Tue	537 492 6 22469 41868 20775 23735 93687 85148 492 6 00000	USB	(AB/HFD)
S06s	6845	1-11	1500	Tue	537 49276 22469	USB	(HFD)
S06s	9170	1-11	1510	Tue	537 492 6 22469 41868 20775 23735 93687 85148 492 6 00000	USB	(AB/ES/HFD)
S06s	8417	2-11	0820	Wed	471 853 6 53181 70135 16554 34031 75922 02555 853 6 00000	USB	(AB/ES/HFD)
S06s	9262	2-11	0830	Wed	471 853 6 53181 70135 16554 34031 75922 02555 853 6 00000	USB	(AB)
S06s	11535	2-11	0830	Wed	745 209 6 39262	USB	(HFD)
S06s	11535	2-11	0830	Wed	745 209 6 39626 32740 46182 99077 35193 35643 209 6 00000	USB	(AB/ES/HFD)
S06s	11830	2-11	0840	Wed	745 209 6 39626 32740 46182 99077 35193 35643 209 6 00000	USB	(AB/ES/HFD)
S06s	12365	2-11	1000	Wed	729 401 5 88394 49194 31911 90446 31786 401 5 00000	AM	(AB/HFD)
S06s	14280	2-11	1010	Wed	729 401 5 88394 49194 31911 90446 31786 401 5 00000	AM	(AB/ES/HFD)
S06s	5765	3-11	0900	Thu	624 953 7 35868 49131 45326 30478 39687 37977 32397 953 7 00000	USB	(AB)
S06s	5765	3-11	0900	Thu	624 953 7 35868	USB	(HFD)
S06s	6315	3-11	0910	Thu	624 953 7 35868 49131 45326 30478 39687 37977 32397 953 7 00000	USB	(AB/ES/HFD)
S06s	8812	3-11	0930	Thu	315 268 5 38216 45764 39345 33692 38702 268 5 00000	USB	(AB/ES)
S06s	9540	3-11	0940	Thu	315 268 5 38216 45764 39345 33692 38702 268 5 00000	USB	(AB/HFD)
S06s	12155	3-11	1200	Thu	425 816 7 40951 35790 31686 37023 31750 46556 32382 816 7 00000 with male ops chat just before the txm was switched off	AM	(AB/HFD)
S06s	10920	3-11	1210	Thu	425 816 7 40951 35790 31686 37023 31750 46556 32382 816 7 00000 with male ops chat just before the txm was switched off	AM	(AB/HFD)
S06s	11780	4-11	0930	Fri	516 247 8 33379	USB	(HFD)



S06s	12570	4-11	0940	Fri	516	USB	(HFD)
S06s	8680	5-11	0800	Sat	254 930 6 49294 38064 31724 37324 39316 35660 930 6 00000	USB	(AB/ES/HFD)
S06s	8260	5-11	0810	Sat	254 930 6 49294 38064 31724 37324 39316 35660 930 6 00000	USB	(AB/HFD)
S06s	4013	5-11	2000	Sat	614 614 614 00000	USB	(AB)
S06s	13470	6-11	0630	Sun	524 810 6 32617 41322 86067 25487 44036 36806 810 6 00000	USB	(AB)
S06s	8057	7-11	0830	Mon	371 460 5 30263	USB	(HFD)
S06s	8530	7-11	0840	Mon	371	USB	(HFD)
S06s	14675	7-11	0900	Mon	872 943 5 40194 39428 36749 36509 81313 943 5 00000 Operator chat before s/off (18ûy 12830 / 18th 12830 -the freq of the 2nd transmission)	USB	(AB/HFD)
S06s	12830	7-11	0910	Mon	872 943 5 40194 39428 36749 36509 81313 943 5 00000 Operator chat before s/off (18ûy vyklyuchayu / 18th I am switching off)	USB	(AB/HFD)
S06s	8420	7-11	1300	Mon	831 462 5 85160 35459 99931 13319 44649 462 5 00000	USB	(AB/HFD)
S06s	10635	7-11	1310	Mon	831 462 5 85160 35459 99931 13319 44649 462 5 00000	USB	(AB/HFD)
S06s	16145	8-11	0600	Tue	438 276 5 46062 68672 94498 39685 30485 276 5 00000 (?? very poor)	USB	(AB- RUS/HFD)
S06s	14240	8-11	0610	Tue	438 276 5 46062 68672 97498 39685 30485 276 5 00000 (?? very poor)	USB	(AB/ES/HFD)
S06s	5250	8-11	0700	Tue	374 951 6 88620	USB	(HFD)
S06s	6320	8-11	0715	Tue	374	USB	(HFD)
S06s	7410	8-11	0730	Tue	427 980 5 94428 17454 24011 41584 68592 980 5 00000	USB	(AB/ES/HFD)
S06s	11532	8-11	0740	Tue	427 980 5 94428 17454 24011 41584 68592 980 5 00000	USB	(AB/HFD)
S06s	11945	8-11	0800	Tue	352 906 7 73668 49575 35325 85342 52215 64752 59774 906 7 00000	USB	(AB)
S06s	13195	8-11	0810	Tue	352 906 7 73668 49575 35325 85342 52215 64752 59774 906 7 00000	USB	(AB)
S06s	6440	8-11	1000	Tue	893 415 6 61830 54635 74493 43164 54497 91414 415 6 00000	USB	(AB)
S06s	5660	8-11	1010	Tue	893 415 6 61830 54635 74493 43164 54497 91414 415 6 00000	USB	(AB)
S06s	5035	8-11	1100	Tue	754 912 6 06445 36574 24712 46919 49548 64873 912 6 00000	USB	(AB-RUS)
S06s	5975	8-11	1110	Tue	754 912 6 06445 36574 24712 46919 49548 64873 912 6 00000	USB	(AB-RUS)
S06s	6845	8-11	1500	Tue	537 492 6 22469 41868 20775 23735 93687 85148 492 6 00000	USB	(AB)
S06s	9170	8-11	1510	Tue	537 492 6 22469 41868 20775 23735 93687 85148 492 6 00000	USB	(AB)
S06s	7425	9-11	0530	Wed	464 251 7 38433 25858 25573 64485 55554 34031 75626 251 7 00000	USB	(ES)
S06s	8417	9-11	0820	Wed	471 853 6 53181 70135 16554 34031 75922 02555 853 6 00000	USB	(AB)
S06s	9262	9-11	0830	Wed	471 853 6 53181 70135 16554 34031 75922 02555 853 6 00000	USB	(AB)
S06s	11535	9-11	0830	Wed	745 209 6 39626 32740 46182 99077 35193 35643 209 6 00000	USB	(AB/ES)
S06s	11830	9-11	0840	Wed	745 209 6 39626 32740 46182 99077 35193 35643 209 6 00000	USB	(AB)
S06s	12365	9-11	1000	Wed	729 401 5 88394 49194 31911 90446 31786 401 5 00000	AM	(AB)

<b>S06s</b>	14280	9-11	1010	Wed	729 401 5 88394 49194 31911 90446 31786 401 5 00000	AM	(AB)
<b>S06s</b>	5765	10-11	0900	Thu	624 953 7 35868 49131 45326 30478 39687 37977 32397 953 7 00000	USB	(AB)
<b>S06s</b>	6315	10-11	0910	Thu	624 953 7 35868 49131 45326 30478 39687 37977 32397 953 7 00000	USB	(AB)
<b>S06s</b>	8812	10-11	0930	Thu	315 268 5 38216 45764 39345 33692 38702 268 5 00000	USB	(AB)
<b>S06s</b>	9540	10-11	0940	Thu	315 268 5 38216 45764 39345 33692 38702 268 5 00000	USB	(AB)
<b>S06s</b>	12155	10-11	1200	Thu	425 816 7 40951 35790 31686 37023 31750 46556 32382 816 7 00000	AM	(AB/ES)
<b>S06s</b>	10920	10-11	1210	Thu	425 816 7 40951 35790 31686 37023 31750 46556 32382 816 7 00000	AM	(AB)
<b>S06s</b>	13470	13-11	0630	Sun	524 810 6 32617 41322 86067 25487 44036 36806 810 6 00000	USB	(AB)
<b>S06s</b>	16515	13-11	0640	Sun	524 810 6 32617 41322 86067 25487 44036 36806 810 6 00000	USB	(AB)
<b>S06s</b>	14675	14-11	0900	Mon	872 943 5 40194 39428 36749 36509 81313 943 5 00000	USB	(AB)
<b>S06s</b>	12830	14-11	0910	Mon	872 943 5 40194 39428 36749 36509 81313 943 5 00000	USB	(AB)
<b>S06s</b>	8420	14-11	1300	Mon	831 462 5 85160 35459 99931 13319 44649 462 5 00000	USB	(AB)
<b>S06s</b>	10635	14-11	1310	Mon	831 462 5 85160 35459 99931 13319 44649 462 5 00000	USB	(AB)
<b>S06s</b>	16145	15-11	0600	Tue	438 201 5 34214 38621 39843 34934 99300 201 5 00000	USB	(AB-S)
<b>S06s</b>	14240	15-11	0610	Tue	438 201 5 34214 38621 39843 34934 99300 201 5 00000	USB	(AB-S)
<b>S06s</b>	5250	15-11	0700	Tue	374 810 5 60768 53181 70135 16554 34031 810 5 00000	USB	(AB-POL)
<b>S06s</b>	6320	15-11	0715	Tue	374 810 5 60768 53181 70135 16554 34031 810 5 00000	USB	(AB-POL/ES)
<b>S06s</b>	7410	15-11	0730	Tue	427 836 5 37345 35647 42528 45042 32392 836 5 00000	AM	(AB)
<b>S06s</b>	11532	15-11	0740	Tue	427 836 5 37345 35647 42528 45042 32392 836 5 00000	AM	(AB)
<b>S06s</b>	11945	15-11	0800	Tue	352 417 6 49294 38064 31724 37324 39316 35660 417 6 00000	USB	(AB)
<b>S06s</b>	13195	15-11	0810	Tue	352 417 6 49294 38064 31724 37324 39316 35660 417 6 00000	USB	(AB)
<b>S06s</b>	6440	15-11	1000	Tue	893 260 5 29783 35468 31373 39246 31737 260 5 00000	AM	(AB/ES)
<b>S06s</b>	5660	15-11	1010	Tue	893 260 5 29783 35468 31373 39246 31737 260 5 00000	AM	(AB)
<b>S06s</b>	5035	15-11	1100	Tue	754 829 6 46387 70197 31717 38137 34282 42358 829 6 00000	USB	(AB-POL)
<b>S06s</b>	5975	15-11	1110	Tue	754 829 6 46387 70197 31717 38137 34282 42358 829 6 00000	USB	(AB-POL)
<b>S06s</b>	8417	16-11	0820	Wed	471 583 6 39783 35468 35208 35868 49131 45326 583 6 00000	USB	(AB/ES)
<b>S06s</b>	9262	16-11	0830	Wed	471 583 6 39783 35468 35208 35868 49131 45326 583 6 00000	USB	(AB)
<b>S06s</b>	11535	16-11	0830	Wed	745 903 6 37947 39747 31323 31829 47694 45680 903 6 00000	USB	(AB)
<b>S06s</b>	11830	16-11	0840	Wed	745 903 6 37947 39747 31323 31829 47694 45680 903 6 00000	USB	(AB/ES)



<b>S06s</b>	12365	16-11	1000	Wed	729 860 5 94428 17454 24011 41584 68592 860 5 00000	AM	(AB)
<b>S06s</b>	14280	16-11	1010	Wed	729 860 5 94428 17454 24011 41584 68592 860 5 00000	AM	(AB/ES)
<b>S06s</b>	5765	17-11	0900	Thu	624 530 7 31393 46801 31412 96324 34793 46933 35868 530 7 00000	USB	(AB)
<b>S06s</b>	6315	17-11	0910	Thu	624 530 7 31393 46801 31412 96324 34793 46933 35868 530 7 00000	USB	(AB)
<b>S06s</b>	8812	17-11	0930	Thu	315 207 5 40951 35790 31868 37024 31750 207 5 00000	USB	(AB)
<b>S06s</b>	9540	17-11	0940	Thu	315 207 5 40951 35790 31868 37024 31750 207 5 00000	USB	(AB)
<b>S06s</b>	12155	17-11	1200	Thu	425 863 7 34464 49032 32086 48736 46387 30197 31717 863 7 00000	AM	(AB)
<b>S06s</b>	10920	17-11	1210	Thu	425 863 7 34464 49032 32086 48736 46387 30197 31717 863 7 00000	AM	(AB)
<b>S06s</b>	11780	18-11	0930	Fri	516 283 7 37352 96930 42476 46239 32853 38109 36503 283 7 00000	AM	(AB)
<b>S06s</b>	12570	18-11	0940	Fri	516 283 7 37352 96930 42476 46239 32853 38109 36503 283 7 00000	AM	(AB)
<b>S06s</b>	13470	20-11	0630	Sun	524 936 7 33379 39705 36201 37352 96930 42476 46239 936 7 00000	USB	(AB)
<b>S06s</b>	16515	20-11	0640	Sun	524 936 7 33379 39705 36201 37352 96930 42476 46239 936 7 00000	USB	(AB)
<b>S06s</b>	14675	21-11	0900	Mon	872 495 6 63824 61329 52748 63081 62418 94026 495 6 00000	USB	(AB)
<b>S06s</b>	12830	21-11	0910	Mon	872 495 6 63824 61329 52748 63081 62418 94026 495 6 00000	USB	(AB)
<b>S06s</b>	8420	21-11	1300	Mon	831 406 5 92325 36615 36491 49588 41061 406 5 00000	USB	(AB)
<b>S06s</b>	10635	21-11	1310	Mon	831 406 5 92325 36615 36491 49588 41061 406 5 00000	USB	(AB)
<b>S06s</b>	5250	22-11	0700	Tue	374 810 5 60768 53181 70135 16554 34031 810 5 00000	USB	(AB-POL)
<b>S06s</b>	6320	22-11	0715	Tue	374 810 5 60768 53181 70135 16554 34031 810 5 00000	USB	(AB-POL)
<b>S06s</b>	7410	22-11	0730	Tue	427 836 5 37345 35647 42528 45042 32392 836 5 00000	AM	(AB)
<b>S06s</b>	11532	22-11	0740	Tue	427 836 5 37345 35647 42528 45042 32392 836 5 00000	AM	(AB)
<b>S06s</b>	11945	22-11	0800	Tue	352 417 6 49294 38064 31724 37324 39316 35660 417 6 00000	USB	(AB)
<b>S06s</b>	13195	22-11	0810	Tue	352 417 6 49294 38064 31724 37324 39316 35660 417 6 00000	USB	(AB)
<b>S06s</b>	6440	22-11	1000	Tue	893 260 5 29783 35468 31373 39246 31737 260 5 00000	AM	(AB/ES)
<b>S06s</b>	5660	22-11	1010	Tue	893 260 5 29783 35468 31373 39246 31737 260 5 00000	AM	(AB)
<b>S06s</b>	5035	22-11	1100	Tue	754 829 6 46387 70197 31717 38137 34282 42358 829 6 00000	USB	(AB-POL)
<b>S06s</b>	5975	22-11	1110	Tue	754 829 6 46387 70197 31717 38137 34282 42358 829 6 00000	USB	(AB-POL)
<b>S06s</b>	6845	22-11	1500	Tue	537 290 6 38105 42424 81310 46347 31249 39780 290 6 00000	USB	(AB-GRC)
<b>S06s</b>	9170	22-11	1510	Tue	537 290 6 38105 42424 81310 46347 31249 39780 290 6 00000	USB	(AB)
<b>S06s</b>	8417	23-11	0820	Wed	471 583 6 39783 35468 35208 35868 49131 45326 583 6 00000	USB	(AB)

<b>S06s</b>	9262	23-11	0830	Wed	471 583 6 39783 35468 35208 35868 49131 45326 583 6 00000	USB	(AB)
<b>S06s</b>	11535	23-11	0830	Wed	745 903 6 37947 39747 31323 31829 47694 45680 903 6 00000	USB	(AB)
<b>S06s</b>	11830	23-11	0840	Wed	745 903 6 37947 39747 31323 31829 47694 45680 903 6 00000	USB	(AB)
<b>S06s</b>	12365	23-11	1000	Wed	729 860 5 94428 17454 24011 41584 68592 860 5 00000	AM	(AB)
<b>S06s</b>	14280	23-11	1010	Wed	729 860 5 94428 17454 24011 41584 68592 860 5 00000	AM	(AB/ES)
<b>S06s</b>	5765	24-11	0900	Thu	624 530 7 31393 46801 31412 96324 34793 46933 35868 530 7 00000	USB	(AB)
<b>S06s</b>	6315	24-11	0910	Thu	624 530 7 31393 46801 31412 96324 34793 46933 35868 530 7 00000	USB	(AB)
<b>S06s</b>	8812	24-11	0930	Thu	315 207 5 40951 35790 31868 37024 31750 207 5 00000	USB	(AB)
<b>S06s</b>	9540	24-11	0940	Thu	315 207 5 40951 35790 31868 37024 31750 207 5 00000	USB	(AB)
<b>S06s</b>	12155	24-11	1200	Thu	425 863 7 34464 49032 32086 48736 46387 30197 31717 863 7 00000	AM	(AB/ES)
<b>S06s</b>	10920	24-11	1210	Thu	425 863 7 34464 49032 32086 48736 46387 30197 31717 863 7 00000	AM	(AB)
<b>S06s</b>	11780	25-11	0930	Fri	516 283 7 37352 96930 42476 46239 32853 38109 36503 283 7 00000	AM	(AB)
<b>S06s</b>	12570	25-11	0940	Fri	516 283 7 37352 96930 42476 46239 32853 38109 36503 283 7 00000	AM	(AB)
<b>S06s</b>	13470	27-11	0630	Sun	524 936 7 33379 39705 36201 37352 96930 42476 46239 936 7 00000	USB	(AB-GRC)
<b>S06s</b>	16515	27-11	0640	Sun	524 936 7 33379 39705 36201 37352 96930 42476 46239 936 7 00000	USB	(AB-AUT)
<b>S06s</b>	14675	28-11	0900	Mon	872 495 6 63824 61329 52748 63081 62418 94026 495 6 00000	USB	(AB)
<b>S06s</b>	12830	28-11	0910	Mon	872 495 6 63824 61329 52748 63081 62418 94026 495 6 00000	USB	(AB)
<b>S06s</b>	8420	28-11	1300	Mon	831 406 5 92325 36615 36491 49588 41061 406 5 00000	USB	(AB)
<b>S06s</b>	10635	28-11	1310	Mon	831 406 5 92325 36615 36491 49588 41061 406 5 00000	USB	(AB)
<b>S06s</b>	16145	29-11	0600	Tue	438 438 438 00000	USB	(AB-I)
<b>S06s</b>	14240	29-11	0610	Tue	438 438 438 00000	USB	(AB)
<b>S06s</b>	5250	29-11	0700	Tue	374 374 374 00000	USB	(AB)
<b>S06s</b>	6320	29-11	0715	Tue	374 374 374 00000	USB	(AB)
<b>S06s</b>	7410	29-11	0729	Tue	427 427 427 00000 (1 min early)	AM	(AB)
<b>S06s</b>	11532	29-11	0739	Tue	427 427 427 00000 (1 min early)	AM	(AB)
<b>S06s</b>	11945	29-11	0800	Tue	352 352 352 00000	USB	(AB)
<b>S06s</b>	13195	29-11	0810	Tue	352 352 352 00000	USB	(AB)
<b>S06s</b>	6440	29-11	1000	Tue	893 893 893 00000	AM	(AB)
<b>S06s</b>	5660	29-11	1009	Tue	893 893 893 00000	AM	(AB)
<b>S06s</b>	5035	29-11	1100	Tue	754 754 754 00000	USB	(AB-POL)
<b>S06s</b>	5975	29-11	1110	Tue	754 754 754 00000	USB	(AB-POL)
<b>S06s</b>	6845	29-11	1500	Tue	537 537 537 00000	USB	(AB-I)
<b>S06s</b>	9170	29-11	1510	Tue	537 537 537 00000	USB	(AB)
<b>S06s</b>	8417	30-11	0820	Wed	471 471 471 00000	USB	(AB)
<b>S06s</b>	9262	30-11	0829	Wed	471 471 471 00000 (1 min early)	USB	(AB)
<b>S06s</b>	11535	30-11	0830	Wed	745 745 745 00000	USB	(AB)
<b>S06s</b>	11830	30-11	0840	Wed	745 745 745 00000 (1 min early)	USB	(AB)
<b>S06s</b>	12365	30-11	1000	Wed	729 729 729 00000	USB	(AB)
<b>S06s</b>	14280	30-11	1010	Wed	729 729 729 00000	USB	(AB)
<b>S11a</b>	4828	1-11	0455	Tue	321/00	USB	(AB/ES)/HFD

<b>S11a</b>	7504	1-11	0915	Tue	484/00	USB	(AB/ES/HFD)
<b>S11a</b>	9610	1-11	1020	Tue	426/00	USB	(AB/ES/HFD)
<b>S11a</b>	10728	2-11	1540	Wed	563/00	USB	(HFD)
<b>S11a</b>	5815	2-11	1955	Wed	371/00	USB	(AB/MPJ/HFD)
<b>S11a</b>	12530	3-11	1015	Thu	475/00	USB	(AB/ES/HFD)
<b>S11a</b>	7504	4-11	0915	Fri	484/00	USB	(AB)
<b>S11a</b>	9610	4-11	1020	Fri	426/00	USB	(AB)
<b>S11a</b>	10728	5-11	1540	Sat	563/00	USB	(AB/ES/EA2NR)
<b>S11a</b>	12530	7-11	1015	Mon	475/00	USB	(AB)
<b>S11a</b>	4828	8-11	0455	Tue	321/00	USB	(AB/ES)
<b>S11a</b>	7504	8-11	0915	Tue	482/31 Vnimanaye 76820 49380 63014 ... 40277 58928 17892 Vnimanaye, rpt msg, konets	USB	(AB)
<b>S11a</b>	9610	8-11	1020	Tue	426/32 Vnimanaye 43388 94747 72509 ... 07104 83270 68459 Vnimanaye, rpt msg, konets	USB	(AB/ES)
<b>S11a</b>	10728	9-11	1540	Wed	563/00	USB	(AB)
<b>S11a</b>	5815	9-11	1955	Wed	371/00	USB	(AB/MPJ)
<b>S11a</b>	12530	10-11	1015	Thu	475/00	USB	(AB/ES)
<b>S11a</b>	4828	11-11	0455	Fri	321/00	USB	(AB)
<b>S11a</b>	7504	11-11	0915	Fri	482/31 Vnimanaye 76820 49380 63014 ... 40277 58928 17892 Vnimanaye, rpt msg, konets	USB	(AB)
<b>S11a</b>	9610	11-11	1020	Fri	426/32 Vnimanaye 43388 94747 72509 ... 07104 83270 68459 Vnimanaye, rpt msg, konets	USB	(AB)
<b>S11a</b>	5815	11-11	1955	Fri	371/00	USB	(AB/MPJ/ES)
<b>S11a</b>	10728	12-11	1540	Sat	563/00	USB	(AB)
<b>S11a</b>	12530	14-11	1015	Mon	475/00	USB	(AB)
<b>S11a</b>	4828	15-11	0455	Tue	321/00	USB	(AB/ES)
<b>S11a</b>	7504	15-11	0915	Tue	484/00	USB	(AB/ES)
<b>S11a</b>	9610	15-11	1020	Tue	426/00	USB	(AB/ES)
<b>S11a</b>	10728	16-11	1540	Wed	563/00	USB	(MPJ)
<b>S11a</b>	5815	16-11	1955	Wed	371/00	USB	(AB/MPJ)
<b>S11a</b>	12530	17-11	1015	Thu	475/00	USB	(AB)
<b>S11a</b>	4828	18-11	0455	Fri	321/00	USB	(AB)
<b>S11a</b>	7504	18-11	0915	Fri	484/00	USB	(AB)
<b>S11a</b>	9610	18-11	1020	Fri	426/00	USB	(AB)
<b>S11a</b>	5815	18-11	1955	Fri	371/00	USB	(AB)
<b>S11a</b>	10728	19-11	1540	Sat	563/00	USB	(AB/MPJ/ES)
<b>S11a</b>	12530	21-11	1015	Mon	478/38 Vnimanaye 11738 69517 55054 ... 45557 02950 81948 Vnimanaye, rpt msg, konets	USB	(AB)
<b>S11a</b>	4828	22-11	0455	Tue	322/32 Vnimanaye 47319 69962 16844 ... 28848 18415 97027 Vnimanaye, rpt msg, konets	USB	(AB/ES)
<b>S11a</b>	7504	22-11	0915	Tue	484/00	USB	(AB)
<b>S11a</b>	9610	22-11	1020	Tue	426/00	USB	(AB/MPJ/ES)
<b>S11a</b>	12530	24-11	1015	Thu	478/38 Vnimanaye 11738 69517 55054 ... 45557 02950 81948 Vnimanaye, rpt msg, konets	USB	(AB/ES)
<b>S11a</b>	7504	25-11	0915	Fri	484/00	USB	(AB)
<b>S11a</b>	9610	25-11	1020	Fri	426/00	USB	(AB)
<b>S11a</b>	5815	25-11	1955	Fri	376/38 Vnimanaye ...	USB	(AB)
<b>S11a</b>	12530	28-11	1015	Mon	475/00	USB	(AB/MPJ)
<b>S11a</b>	4828	29-11	0455	Tue	321/00	USB	(AB)
<b>S11a</b>	7504	29-11	0915	Tue	484/00	USB	(AB)
<b>S11a</b>	9610	29-11	1020	Tue	426/00	USB	(AB)
<b>S11a</b>	10728	30-11	1540	Wed	563/00	USB	(AB)
<b>S11a</b>	5815	30-11	1955	Wed	371/00	USB	(AB/GHn/MPJ)
<b>S28</b>	4625	1-11	1149	Tue	Buzzer channel marker //6998 kHz	USB	(AB-POL)
<b>S28</b>	6998	1-11	1149	Tue	Buzzer channel marker //4625 kHz	USB	(AB-POL)

S28	4625	7-11	0619	Mon	ZhUOZ 66822 BANTOHLyE V 15856815	USB	(Priyom)
S28	4625	7-11	0619	Mon	ZhUOZ 66822 BANTOHLyE V 15856815	USB	(Priyom)
S28	4625	7-11	0620	Mon	ZhUOZ 96515 ATOMOHAN 48956841	USB	(Priyom)
S28	4625	7-11	0620	Mon	ZhUOZ 96515 ATOMOHAN 48956841	USB	(Priyom)
S28	4625	15-11	2055	Tue	Buzzer channel marker //6998 kHz	USB	(MPJ)
S28	6998	15-11	2055	Tue	Buzzer channel marker //4625 kHz	USB	(MPJ)
S28	4625	16-11	1747	Wed	Buzzer channel marker //6998 kHz	USB	(AB)
S28	6998	16-11	1747	Wed	Buzzer channel marker //4625 kHz	USB	(AB)
S28	4625	17-11	0900	Thu	ZhUOZ 00663 BUENOS 03057160	USB	(Priyom)
S28	4625	17-11	0907	Thu	ZhUOZ 59208 DUETOBAL 89994216	USB	(Priyom)
S28	4625	17-11	1044	Thu	ZhUOZ 43842 KAIKOBALL 58944167	USB	(Priyom)
S28	4625	17-11	1231	Thu	ZhUOZ 02139 KUHONNY 94777037 Female voice on background	USB	(Priyom)
S28	4625	17-11	1233	Thu	ZhUOZ 10410 BRYeMYeN 64956880	USB	(Priyom)
S28	4625	21-11	1025	Mon	ZhUOZ 44695 KRAMATORSK 63972775	USB	(Priyom)
S28	4625	21-11	1055	Mon	ZhUOZ 66928 BUNTORIS 54031602 Sboj (error) during repeat\	USB	(Priyom)
S28	4625	21-11	1528	Mon	ZhUOZ 51719 ZYuDOTYeRn 89264479	USB	(Priyom)
S28	4625	21-11	1535	Mon	ZhUOZ 92574 KRYeSS 18397235	USB	(Priyom)
S28	4625	24-11	0801	Thu	ZhUOZ 04182 VOYaZhOShVYeD 18536582 DY-eROZhAR 37779255	USB	(Priyom)
S28	4625	24-11	0921	Thu	ZhUOZ 40549 VHODOMYeCh 42846614	USB	(Priyom)
S28	4625	24-11	0935	Thu	ZhUOZ 42060 ADAMIT 78288610 KRYeOLKA 68198855	USB	(Priyom)
S28	4625	24-11	1108	Thu	ZhUOZ 67776 BRYuNYeTKA 11446637	USB	(Priyom)
S28	4625	27-11	1422	Sun	ZhUOZ 84897 VIZGOHALL 54601944	USB	(Priyom)
S28	4625	28-11	0751	Mon	ZhUOZ 81016 ZAYeMORIFT 31376818	USB	(Priyom)
S28	4625	28-11	0754	Mon	ZhUOZ 99330 GRYaZNUHA 67906710	USB	(Priyom)
S28	4625	28-11	1230	Mon	ZhUOZ 22420 KAZAchOK 54709627	USB	(Priyom)
S28	4625	28-11	1412	Mon	ZhUOZ 89336 KON'YuNKCIYa 31196315	USB	(Priyom)
S30	5448	1-11	1149	Tue	Pip channel marker	USB	(AB-POL)
S30	3756	16-11	1750	Wed	Pip channel marker	USB	(AB)
S30	3756	17-11	0413	Thu	V'Z' NLCE LI27 V2MZ SB7Z 'O6P Y8VM 6I2Zh 8CSHchJ 27Shch' The operator says Vladimir instead of Vasily and Boris instead of six	USB	(Priyom)
S30	3756	17-11	1645	Thu	S7ZhG Z'1B CI9V ZhSK4 HZ5T 5FSShch 8MUO TUZR 5J7Shch DMC3	USB	(Priyom)
S30	3756	21-11	0514	Mon	81BR M7KS PMV5 L'GJ KZI' TShchShchS VKY1 HCLF 61HZh ZBIL	USB	(Priyom)
S30	3756	21-11	1419	Mon	L7O5 V'Z' NLCE LI27 V2MZ SB7Z 'O6P Y8VM 6I2Zh 8CSHchJ	USB	(Priyom)
S30	3756	21-11	1526	Mon	8S1Shch 42552 AZOVObUFF 37543023 Time mark after the signal	USB	(Priyom)
S30	3756	21-11	1534	Mon	8S1Shch 47888 NAVALIVAN'Ye 17154702 Time mark after the signal	USB	(Priyom)
S30	3756	21-11	1748	Mon	27Shch' N1DU 53OB 78MV DEAY JH'J 12CI 79AJ ShchT3O CIHS	USB	(Priyom)
S30	3756	22-11	1524	Tue	7VNShch ZhRNZh LMA5 VTKh3 AGFT IU1B OSOG BOBĚ F5SShch 9GSA priyom	USB	(IK00ZK)
S30	3756	23-11	1522	Wed	Message	USB	(IK00ZK)
S30	3756	24-11	0503	Thu	DEAY JH'J 12CI 79AJ ShchT3O CIHS Z7PM S7ZhG Z'1B CI9V	USB	(Priyom)
S30	5448	24-11	1308	Thu	8S1Shch 70432 VLIYaTYeL'NYJ 74143714 IS-TYaZATYeL 79227585 Time mark after the signal	USB	(Priyom)
S30	5448	24-11	1318	Thu	ZhSK4 HZ5T 5FSShch 8MUO TUZR 5J7Shch DMC3 49FT C2ZA INNC	USB	(Priyom)
S30	5448	24-11	1320	Thu	clg several stations	USB	(IK00ZK)
S30	5448	24-11	1343	Thu	8S1Shch 00390 BONOSAYeK 43579388 Time mark after the signal	USB	(Priyom)

<b>S30</b>	3756	24-11	1445	Thu	8S1Shch 60748 LATNYK 73529254 GIDOMIF 94943088 Time mark after the signal	USB	(Priyom)
<b>S30</b>	3756	24-11	1829	Thu	ShchGJP TZLM FY5E F61N 37CN MUDR 7VNSHch Zh7NZh YMA5 VTH3	USB	(Priyom)
<b>S30</b>	3756	27-11	0517	Sun	37CN MUDR 7VNSHch Zh7NZh YMA5 VTH3 AGDT 'U1B OSOG BO6C	USB	(Priyom)
<b>S30</b>	3756	27-11	1419	Sun	8S1Shch 26302 AZIDOFYeN 85475699 Time mark after the signal	USB	(Priyom)
<b>S30</b>	3756	27-11	1431	Sun	PMV5 L'GJ KZI' TShchShchS VKY1 HCLF 61HZh ZBIL L7O5 V'Z'	USB	(Priyom)
<b>S30</b>	3756	28-11	0453	Mon	NLCE LI27 V2MZ SB7Z 'O6P Y8VM 6I2Zh 8CSHchJ 27Shch' N1DU	USB	(Priyom)
<b>S30</b>	5448	28-11	0747	Mon	8S1Shch 62497 OBMYeRShchIK 67378560 Time mark after the signal	USB	(Priyom)
<b>S30</b>	5448	28-11	0754	Mon	8S1Shch 85470 ZVONODONG 00655207 Time mark after the signal	USB	(Priyom)
<b>S30</b>	5448	28-11	1226	Mon	8S1Shch 16411 NADOMNIK 13623001 Time mark after the signal	USB	(Priyom)
<b>S30</b>	3756	28-11	1408	Mon	8S1Shch 45403 KARDANNYJ 58827332 Time mark after the signal	USB	(Priyom)
<b>S30</b>	3756	28-11	1910	Mon	Z'1B CI9V ZhSK4 HZ5T 5FSSHch 8MUO TUZR 5J7Shch DMC3 49FT	USB	(Priyom)
<b>S32</b>	5473	1-11	1149	Tue	Squeaky Wheel channel marker	USB	(AB-POL)
<b>S32</b>	3828	16-11	1750	Wed	Squeakey Wheel channel marker	USB	(AB)
<b>S32</b>	5473	21-11	1345	Mon	AL'FA-45 06161 GIBYeL' 22270343	USB	(Priyom)
<b>S32</b>	3828	21-11	1530	Mon	AL'FA-45 44926 OBRUSYeNiYe 14954395	USB	(Priyom)
<b>S32</b>	3828	21-11	1538	Mon	AL'FA-45 60366 MYeHOMORG 41148579	USB	(Priyom)
<b>S32</b>	3828	21-11	1753	Mon	ZASLONKA-27 KARTA-11 OTPOR-89 PYeSOChNYJ-21 ShULER-60 STUPA-32 RYezINA-38 BURKA-37 S30 in the background	USB	(Priyom)
<b>S32</b>	5473	24-11	1311	Thu	AL'FA-45 30787 KORIFYeJ 95421458	USB	(Priyom)
<b>S32</b>	5473	24-11	1345	Thu	AL'FA-45 61568 ZUBOSKAL 04125770	USB	(Priyom)
<b>S32</b>	3828	27-11	1426	Sun	AL'FA-45 01323 LYUFTOZMYeJ 86329666 channel failure during repeat	USB	(Priyom)
<b>S32</b>	3828	27-11	1800	Sun	ZASLONKA-27 KARTA-11 OTPOR-89 PYeSOChNYJ-21 ShULER-60 STUPA-32 RYezINA-38 BURKA-37 (S30 in the background)	USB	(Priyom)
<b>S32</b>	3828	28-11	0759	Mon	AL'FA-45 75204 MOTOZYeBU 10439053	USB	(Priyom)
<b>S32</b>	3828	28-11	1230	Mon	AL'FA-45 41148 ZhRYeCOSHtAT 06527426	USB	(Priyom)
<b>S32</b>	3828	28-11	1412	Mon	AL'FA-45 41179 OBYeSCYeNyEN'Ye 61077203	USB	(Priyom)
<b>S32</b>	3828	28-11	1432	Mon	DUBLYoR-68 STAZHeR-29 STOROZh-62 YaHTA-94 RUZh'E-26 ROSA-64 KOVBOJ-39 LANDYSh-74 (S30 in the background)	USB	(Priyom)
<b>S32</b>	5473	28-11	1432	Mon	AL'FA-45 92698 ADOMYaCh 50060706	USB	(Priyom)
<b>S32</b>	3828	28-11	1802	Mon	KURGAN-40 NYeVKA-26 ZASLONKA-27 KARTA-11 OTPOR-89 (S30 in the background)	USB	(Priyom)
<b>S5292</b>	5292	4-11	1743	Fri	Channel marker D	USB	(AB)
<b>UM10</b>	3648	4-11	1849	Fri	10-mins net: OUCH	CW	(JPL-Sib)
<b>UM10</b>	3805	4-11	1849	Fri	10-mins net: ZJL4	CW	(JPL-Sib)
<b>UM10</b>	3648	5-11	1750	Sat	10-mins net: OUCH	CW	(JPL-Sib)
<b>UM10</b>	3316	21-11	1416	Mon	10-mins net: OUC5 //3648 kHz	CW	(JPL-NZL)
<b>UM10</b>	3648	21-11	1416	Mon	10-mins net: OUC5 //3316 kHz	CW	(JPL-NZL)
<b>UM10</b>	6793	22-11	0855	Tue	10-mins net: XZTA (new c/s and new freq)	CW	(JPL-NZL)
<b>UM10</b>	3535	27-11	2047	Sun	10-mins net: ZJL4 //3805 kHz	CW	(JPL-KOR)
<b>UM10</b>	3805	27-11	2047	Sun	10-mins net: ZJL4 //3535 kHz	CW	(JPL-KOR)
<b>UM10</b>	3316	27-11	2054	Sun	10-mins net: OUCH //3648 kHz	CW	(JPL-KOR)
<b>UM10</b>	3648	27-11	2054	Sun	10-mins net: OUCH //3316 kHz	CW	(JPL-KOR)
<b>UM10</b>	5826	28-11	0146	Mon	10-mins net: XZTA. New freq //6793 kHz	CW	(JPL-KOR)
<b>UM10</b>	6783	28-11	0146	Mon	10-mins net: XZTA. //5826 kHz	CW	(JPL-KOR)



<b>UM10</b>	6810	28-11	0146	Mon	10-mins net: KHFA	CW	(JPL-KOR)
<b>UM10</b>	5891	29-11	0016	Tue	10-mins net: KSFA //6810 kHz. New call and freqs.	CW	(JPL-KOR)
<b>UM10</b>	6810	29-11	0016	Tue	10-mins net: KSFA //5891 kHz. New call and freqs.	CW	(JPL-KOR)
<b>UM10</b>	6793	29-11	0019	Tue	10-mins net: XZTA	CW	(JPL-KOR)
<b>UM10</b>	3536	29-11	1249	Tue	10-mins net: ZJL4 //3805 kHz	CW	(JPL-KOR)
<b>UM10</b>	3805	29-11	1249	Tue	10-mins net: ZJL4 //3536 kHz	CW	(JPL-KOR)
<b>UM10</b>	3536	29-11	1754	Tue	10-mins net: ZJL4 //3805 kHz	CW	(JPL-KOR)
<b>UM10</b>	3805	29-11	1754	Tue	10-mins net: ZJL4 //3536 kHz	CW	(JPL-KOR)
<b>UM10</b>	6793	30-11	0019	Wed	10-mins net: XZTA	CW	(JPL-KOR)
<b>UM10</b>	5891	30-11	0023	Wed	10-mins net: KSFA //6810 kHz	CW	(JPL-KOR)
<b>UM10</b>	6810	30-11	0023	Wed	10-mins net: KSFA //5891 kHz	CW	(JPL-KOR)
<b>UM10</b>	3316	30-11	1453	Wed	10-mins net: OUCH //3648 kHz	CW	(JPL-KOR)
<b>UM10</b>	3648	30-11	1453	Wed	10-mins net: OUCH //3316 kHz	CW	(JPL-KOR)
<b>UM10</b>	3648	30-11	1845	Wed	10-mins net: OUCH	CW	(JPL-KOR)
<b>UM10</b>	3536	30-11	1849	Wed	10-mins net: ZJL4 //3805 kHz	CW	(JPL-KOR)
<b>UM10</b>	3805	30-11	1849	Wed	10-mins net: ZJL4 //3536 kHz	CW	(JPL-KOR)
<b>S06s</b>	8057	7-11	0830	Mon	371 460 5 30623 34306 33284 32517 38761 460 5 00000. Operator chat before s/off (?? 8530)	USB	(AB)
<b>S06s</b>	8530	7-11	0840	Mon	371 460 5 30623 34306 33284 32517 38761 460 5 00000. Operator chat before s/off (vyklyuchayu - I am switching off)	USB	(AB)
<b>S06s</b>	8057	14-11	0830	Mon	371 460 5 30623 34306 33284 32517 38761 460 5 00000	USB	(AB)
<b>S06s</b>	8530	14-11	0840	Mon	371 460 5 30623 34306 33284 32517 38761 460 5 00000	USB	(AB)
<b>S06s</b>	8057	21-11	0830	Mon	371 468 5 34031 33420 37536 34906 39698 468 5 00000	USB	(AB)
<b>S06s</b>	8530	21-11	0840	Mon	371 468 5 34031 33420 37536 34906 39698 468 5 00000	USB	(AB)
<b>S06s</b>	8057	28-11	0830	Mon	371 468 5 34031 33420 37536 34906 39698 468 5 00000	USB	(AB)
<b>S06s</b>	8530	28-11	0840	Mon	371 468 5 34031 33420 37536 34906 39698 468 5 00000	USB	(AB)
<b>V02a</b>	7555	8-11	2000	Tue	V02a mixing with M08a. Transmitter problems	LSB	(qsr711/PW 2)
<b>V02a</b>	7555	10-11	2000	Thu	86351 18081 21312 + messages. Mixing with M08a	LSB	(qsr711)
<b>V02a</b>	7554	10-11	2022	Thu	YL/SS announcing 5F grps. Mixing with M08a	LSB	(DSch)
<b>V02a</b>	7555	15-11	1958	Tue	25521 38851 41272 Atencion ... Mixed with M08a	LSB	(PW2)
<b>V02a</b>	7555	15-11	2000	Tue	V02a mixing with M08a	LSB	(qsr711/PW 2)
<b>V02a</b>	7555	24-11	2000	Thu	V02a mixing with M08a. Headers: ????? 37642 41161. Message: __763 77453 72732 27211 ... 53323 10361 36152 88531 83060 (see N&O 230)	LSB	(qsr711/PW 2)
<b>V07</b>	18074	13-11	0100	Sun	883 883 883 1 943 53 41702 03475 ...30777 33430 000 000	USB	(Dan)
<b>V07</b>	15874	13-11	0120	Sun	883 883 883 1 943 53 41702 03475 ...30777 33430 000 000	USB	(Dan)
<b>V07</b>	14374	13-11	0140	Sun	883 883 883 1 943 53 41702 03475 ...30777 33430 000 000	USB	(Dan)
<b>V07</b>	18074	20-11	0100	Sun	883 883 883 000. At 0030z music is heard at least 20 seconds then strong hum until end of transmission	USB	(Dan)
<b>V07</b>	15874	20-11	0120	Sun	883 883 883 000	USB	(Dan)
<b>V07</b>	11435	27-11	1640	Sun	12525 55817 65461 88476 42262 63717	USB	(RR2)
<b>V13</b>	11430	3-11	0420	Thu	New Star Broadcasting	AM	(AB-HK)
<b>V13</b>	15250	3-11	0700	Thu	New Star Broadcasting	AM	(AB)
<b>V13</b>	15250	3-11	0700	Thu	New Star Broadcasting	AM	(AB-HK)
<b>V13</b>	15250	3-11	0800	Thu	New Star Broadcasting	AM	(AB)
<b>V13</b>	15250	3-11	0800	Thu	New Star Broadcasting	AM	(AB-HK)

V13	5995	3-11	1300	Thu	New Star Broadcasting	AM	(AB-HK)
V13	9725	5-11	1200	Sat	New Star Broadcasting	AM	(AB-HK)
V13	9725	5-11	1300	Sat	New Star Broadcasting	AM	(AB-HK)
V13	15250	6-11	0700	Sun	New Star Broadcasting	AM	(AB)
V13	15250	6-11	0800	Sun	New Star Broadcasting	AM	(AB)
V13	15250	9-11	0700	Wed	New Star Broadcasting	AM	(AB)
V13	15250	9-11	0800	Wed	New Star Broadcasting	AM	(AB)
V13	15250	10-11	0700	Thu	New Star Broadcasting	AM	(AB)
V13	15250	10-11	0700	Thu	New Star Broadcasting	AM	(AB-HK)
V13	15250	10-11	0800	Thu	New Star Broadcasting	AM	(AB)
V13	15250	11-11	0700	Fri	New Star Broadcasting	AM	(AB-HK)
V13	15250	11-11	0800	Fri	New Star Broadcasting	AM	(AB-HK)
V13	15250	12-11	0700	Sat	New Star Broadcasting	AM	(AB)
V13	15250	12-11	0800	Sat	New Star Broadcasting	AM	(AB-HK)
V13	15250	14-11	0700	Mon	New Star Broadcasting	AM	(AB)
V13	15250	14-11	0800	Mon	New Star Broadcasting	AM	(AB)
V13	15250	15-11	0700	Tue	New Star Broadcasting	AM	(AB-HK)
V13	15250	15-11	0800	Tue	New Star Broadcasting	AM	(AB-HK)
V13	15250	16-11	0700	Wed	New Star Broadcasting	AM	(AB-HK)
V13	15250	17-11	0800	Thu	New Star Broadcasting	AM	(AB-HK)
V13	15250	23-11	0700	Wed	New Star Broadcasting	AM	(AB-HK)
V13	15250	23-11	0800	Wed	New Star Broadcasting	AM	(AB-HK)
V13	15250	25-11	0700	Fri	New Star Broadcasting	AM	(AB-HK)
V13	15250	25-11	0800	Fri	New Star Broadcasting	AM	(AB-HK)
V13	15250	26-11	0700	Sat	New Star Broadcasting	AM	(AB-HK)
V13	15250	26-11	0800	Sat	New Star Broadcasting	AM	(AB-HK)
V13	15250	28-11	0700	Mon	New Star Broadcasting	AM	(AB-HK)
V13	15250	28-11	0800	Mon	New Star Broadcasting	AM	(AB-HK)
V13	15250	29-11	0700	Tue	New Star Broadcasting	AM	(AB-HK)
V13	15250	29-11	0800	Tue	New Star Broadcasting	AM	(AB-HK)
V13	15250	29-11	0800	Tue	New Star Broadcasting	AM	(AB-HK)
V13	15250	30-11	0700	Wed	New Star Broadcasting	AM	(AB-HK)
V13	15250	30-11	0800	Wed	New Star Broadcasting	AM	(AB-HK)
V24	6310	1-11	1530	Tue	NO.3890, music: Everyday with You, Sojin Park	AM	(BCL)
V24	6310	3-11	1530	Thu	NO.3890, music: Everyday with You, Sojin Park	AM	(BCL)
V24	6310	5-11	1530	Sat	NO.3890, music: Everyday with You, Sojin Park	AM	(BCL)
V24	4925	11-11	1430	Fri	NO.3369, music: Dvorak - Slavonic Dance Op. 72 No 2	AM	(BCL)
V24	4925	11-11	1430	Fri	Music followed by Korean numbers	AM	(To-ken/Moo)
V24	5115	11-11	1600	Fri	NO.6612, music: Amazing You, Dong-Geun Han	AM	(BCL)
V24	4925	13-11	1430	Sun	NO.3369, music: Dvorak - Slavonic Dance Op. 72 No 2	AM	(BCL)
V24	5115	13-11	1600	Sun	NO.6612, music: Amazing You, Dong-Geun Han	AM	(BCL)
V24	4925	15-11	1430	Tue	NO.3369, music: Dvorak - Slavonic Dance Op. 72 No 2	AM	(BCL)
V24	5900	15-11	1600	Tue	NO.2693, music: Good Day, IU	AM	(BCL)
V24	5115	16-11	1600	Wed	NO.6612, music: Amazing You, Dong-Geun Han	AM	(BCL)
V24	5150	18-11	1400	Fri	NO.4724, music: Thursday Night, Urban Zakapa	AM	(BCL)
V24	5900	18-11	1600	Fri	NO.2693, music: Good Day, IU	AM	(BCL)
V24	5715	19-11	1500	Sat	NO.4111, music: Life is, Jin-Young Hong	AM	(BCL)
V24	5150	21-11	1400	Mon	NO.4724, music: Thursday Night, Urban Zakapa	AM	(BCL)
V24	5715	21-11	1500	Mon	Music followed by Korean numbers	AM	(MDK2)
V24	5715	21-11	1500	Mon	NO.4111, music: Life is, Jin-Young Hong	AM	(BCL)
V24	5900	22-11	1600	Tue	NO.2693, music: Good Day, IU	AM	(BCL)
V24	4900	23-11	1530	Wed	NO.4816, music: Spiritualism, Yun-Jeong Jang	AM	(BCL)
V24	5150	25-11	1400	Fri	NO.4724, music: Thursday Night, Urban Zakapa	AM	(BCL)
V24	4900	25-11	1530	Fri	NO.4816, music: Spiritualism, Yun-Jeong Jang	AM	(BCL)

V24	5715	26-11	1500	Sat	NO.4111, music: Life is, Jin-Young Hong	AM	(BCL)
V24	4900	27-11	1530	Sun	NO.4816, music: Spiritualism, Yun-Jeong Jang	AM	(BCL)
V26	4243	1-11	0905	Tue	Messages in Chinese. Female operator //9054 kHz	USB	(JPL-HK)
V26	9054	1-11	0905	Tue	Messages in Chinese. Female operator //4243 kHz	USB	(JPL-HK)
V26	4243	2-11	0006	Wed	Messages in Chinese. Female operator //9054 kHz	USB	(JPL-HK)
V26	9054	2-11	0006	Wed	Messages in Chinese. Female operator //4243 kHz	USB	(JPL-HK)
V26	4243	2-11	1219	Wed	Messages in Chinese. Female operator //9054 kHz	USB	(JPL-HK)
V26	9054	2-11	1219	Wed	Messages in Chinese. Female operator //4243 kHz	USB	(JPL-HK)
V26	8073	3-11	1130	Thu	Callup in Chinese. Male operator	USB	(JPL-HK)
V26	4243	3-11	1140	Thu	Callup in Chinese. Female operator //9054 kHz	USB	(JPL-HK)
V26	9054	3-11	1140	Thu	Callup in Chinese. Female operator //4243 kHz	USB	(JPL-HK)
V26	4243	3-11	1219	Thu	Messages in Chinese. Female operator //9054 kHz	USB	(JPL-HK)
V26	9054	3-11	1219	Thu	Messages in Chinese. Female operator //4243 kHz	USB	(JPL-HK)
V26	4243	3-11	2340	Thu	Callup in Chinese. Female operator //9054 kHz	USB	(JPL-HK)
V26	9054	3-11	2340	Thu	Callup in Chinese. Female operator //4243 kHz	USB	(JPL-HK)
V26	4343	4-11	0007	Fri	Callup in Chinese. Female operator //9054 kHz	USB	(JPL-HK)
V26	9054	4-11	0007	Fri	Callup in Chinese. Female operator //4243 kHz	USB	(JPL-HK)
V26	4243	4-11	0937	Fri	Callup in Chinese. Female operator //9054 kHz	USB	(JPL-HK)
V26	9054	4-11	0937	Fri	Callup in Chinese. Female operator //4243 kHz	USB	(JPL-HK)
V26	8073	4-11	1130	Fri	Callup in Chinese. Male operator	USB	(JPL-HK)
V26	4243	4-11	1140	Fri	Callup in Chinese. Female operator //9054 kHz	USB	(JPL-HK)
V26	9054	4-11	1140	Fri	Callup in Chinese. Female operator //4243 kHz	USB	(JPL-HK)
V26	4243	4-11	1227	Fri	Messages in Chinese. Female operator //9054 kHz	USB	(JPL-HK)
V26	9054	4-11	1227	Fri	Messages in Chinese. Female operator //4243 kHz	USB	(JPL-HK)
V26	9054	7-11	2238	Mon	Messages in Chinese. Female operator	USB	(Dan)
V26	9054	7-11	2340	Mon	Callup in Chinese. Female operator	USB	(Dan)
V26	9054	8-11	0004	Tue	Callup in Chinese. Female operator	USB	(Dan)
V26	4243	8-11	1230	Tue	Messages in Chinese. Female operator	USB	(JPL-HK)
V26	4243	8-11	2337	Tue	Callup in Chinese //9054 kHz	USB	(JPL-HK)
V26	9054	8-11	2337	Tue	Callup in Chinese //4243 kHz	USB	(JPL-HK)
V26	4243	8-11	2359	Tue	Messages in Chinese. Female operator //9054 kHz	USB	(JPL-HK)
V26	9054	8-11	2359	Tue	Messages in Chinese. Female operator //4243 kHz	USB	(JPL-HK)
V26	4243	9-11	1139	Wed	Callup in Chinese. Female operator //9054 kHz	USB	(JPL-HK)
V26	9054	9-11	1139	Wed	Callup in Chinese. Female operator //4243 kHz	USB	(JPL-HK)
V26	4243	10-11	1139	Thu	Callup in Chinese. Female operator //9054 kHz	USB	(JPL-HK)
V26	9054	10-11	1139	Thu	Callup in Chinese. Female operator //4243 kHz	USB	(JPL-HK)
V26	8073	10-11	1201	Thu	Messages in Chinese i.p.. Male operator	USB	(JPL-HK)
V26	4243	10-11	1221	Thu	Messages in Chinese. Male operator //9054 kHz	USB	(JPL-HK)
V26	9054	10-11	1221	Thu	Messages in Chinese. Male operator //4243 kHz	USB	(JPL-HK)
V26	8073	11-11	1130	Fri	Callup in Chinese. Male operator	USB	(JPL-HK)
V26	4243	11-11	1139	Fri	Callup in Chinese //9054 kHz	USB	(JPL-HK)
V26	9054	11-11	1139	Fri	Callup in Chinese //4243 kHz	USB	(JPL-HK)
V26	9054	11-11	2235	Fri	Callup in Chinese. Female operator	USB	(Dan)
V26	9054	11-11	2249	Fri	Messages in Chinese. Female operator	USB	(Dan)
V26	9054	11-11	2340	Fri	Callup in Chinese. Female operator	USB	(Dan)
V26	9054	12-11	0005	Sat	Messages in Chinese. Female operator	USB	(Dan)
V26	8073	12-11	1129	Sat	Callup in Chinese. Male operator	USB	(JPL-HK)
V26	9054	13-11	2340	Sun	Callup in Chinese. Female operator	USB	(Dan)
V26	8073	14-11	0001	Mon	Callup in Chinese. Male operator	USB	(JPL-HK)
V26	9054	14-11	0001	Mon	Messages in Chinese. Female operator	USB	(Dan)
V26	4243	14-11	0011	Mon	Messages in Chines i.p. Female operator //9054 kHz	USB	(JPL-HK)
V26	9054	14-11	0011	Mon	Messages in Chines i.p. Female operator //4243 kHz	USB	(JPL-HK)
V26	4243	15-11	1203	Tue	Messages in Chinese. Female operator //9054 kHz	USB	(JPL-AUS)
V26	9054	15-11	1203	Tue	Messages in Chinese. Female operator //4243 kHz	USB	(JPL-AUS)
V26	4243	16-11	1140	Wed	Callup in Chinese. Female operator //9054 kHz	USB	(JPL)
V26	9054	16-11	1140	Wed	Callup in Chinese. Female operator //4243 kHz	USB	(JPL)



V26	4243	16-11	2339	Wed	Callup in Chinese. Female operator //9054 kHz	USB	(JPL)
V26	9054	16-11	2339	Wed	Callup in Chinese. Female operator //4243 kHz	USB	(JPL)
V26	4243	17-11	0007	Thu	Messages //9054 kHz	USB	(JPL-HK)
V26	9054	17-11	0007	Thu	Messages //4243 kHz	USB	(JPL-HK)
V26	4243	17-11	1140	Thu	Callup in Chinese. Female operator //9054 kHz	USB	(JPL-HK)
V26	9054	17-11	1140	Thu	Callup in Chinese. Female operator //4243 kHz	USB	(JPL-HK)
V26	4243	17-11	1218	Thu	Messages in Chinese. Female operator //9054 kHz	USB	(JPL-HK)
V26	9054	17-11	1218	Thu	Messages in Chinese. Female operator //4243 kHz	USB	(JPL-HK)
V26	8073	18-11	1130	Fri	Callup in Chinese. Male operator	USB	(JPL-HK)
V26	9054	18-11	1139	Fri	Callup in Chinese. Female operator	USB	(JPL-HK)
V26	4243	18-11	1222	Fri	Messages in Chinese. Female operator	USB	(JPL-HK)
V26	9054	19-11	0907	Sat	Callup in Chinese. Female operator	USB	(Dan)
V26	9054	19-11	1001	Sat	Messages in Chinese. Female operator	USB	(Dan)
V26	8073	21-11	1130	Mon	Callup in Chinese. Male operator	USB	(JPL-NZL)
V26	4243	22-11	0001	Tue	Messages ion Chinese. Female operator //9054 kHz	USB	(JPL-HK)
V26	9054	22-11	0001	Tue	Messages ion Chinese. Female operator //4243 kHz	USB	(JPL-HK)
V26	8073	22-11	1130	Tue	Callup in Chinese. Male operator	USB	(JPL-NZL)
V26	4243	22-11	1216	Tue	Messages ion Chinese. Female operator //9054 kHz	USB	(JPL-HK)
V26	9054	22-11	1216	Tue	Messages ion Chinese. Female operator //4243 kHz	USB	(JPL-HK)
V26	4364	23-11	1130	Wed	Callup in Chinese. Male operator //8073 kHz	USB	(JPL-NZL)
V26	8073	23-11	1130	Wed	Callup in Chinese. Male operator //4364 kHz	USB	(JPL-NZL)
V26	9054	23-11	2240	Wed	Messages in Chinese. Female operator	USB	(Dan)
V26	9054	23-11	2315	Wed	Messages in Chinese. Female operator	USB	(Dan)
V26	9054	23-11	2338	Wed	Callup in Chinese. Female operator	USB	(Dan)
V26	9054	23-11	2359	Wed	Messages in Chinese. Female operator	USB	(Dan)
V26	4364	25-11	1130	Fri	Callup in Chinese. Male operator //8073 kHz	USB	(JPL-HK)
V26	8073	25-11	1130	Fri	Callup in Chinese. Male operator //4364 kHz	USB	(JPL-HK)
V26	4243	27-11	1207	Sun	Messages in Chinese. Female operator //9054 kHz	USB	(JPL)
V26	9054	27-11	1207	Sun	Messages in Chinese. Female operator //4243 kHz	USB	(JPL)
V26	9054	27-11	2340	Sun	Callup in Chinese. Female operator	USB	(Dan)
V26	9054	28-11	0007	Mon	Messages in Chinese. Female operator	USB	(Dan)
V26	4243	29-11	0010	Tue	Messages in Chinese. Female operator //9054 kHz	USB	(JPL-KOR)
V26	9054	29-11	0010	Tue	Messages in Chinese. Female operator //4243 kHz	USB	(JPL-KOR)
V26	4243	30-11	0014	Wed	Messages in Chinese. Female operator //9054 kHz	USB	(JPL-KOR)
V26	9054	30-11	0014	Wed	Messages in Chinese. Female operator //4243 kHz	USB	(JPL-KOR)
V28	3277	3-11	1330	Thu	Message in Korean. Female operator	USB	(Kimi)
VC01	3537	3-11	0807	Thu	Chinese Robot	USB	(AB-HK)
VC01	6980	3-11	0809	Thu	Chinese Robot	LSB	(AB-HK)
VC01	6980	7-11	0754	Mon	Chinese Robot	LSB	(AB-HK)
VC01	6780	7-11	0758	Mon	Chinese Robot	USB	(AB-HK)
VC01	4335	11-11	1303	Fri	Chinese Robot	USB	(AB-KOR)
X06	16115	2-11	1148	Wed	Mazielka	MFSK	(MCO)
X06	14970	8-11	1100	Tue	Mazielka. Sequence: 216354	MFSK	(ES)
X06	11411	10-11	1425	Thu	Mazielka. Sequence: 164532	MFSK	(AAI)
X06	14377	21-11	0842	Mon	Mazielka i.p. Sequence: 432516	MFSK	(AB)
X06	16317	22-11	1004	Tue	Mazielka. Sequence: 612534	MFSK	(ES)
X06	17470	22-11	1012	Tue	Mazielka. Sequence: 216354	MFSK	(ES)
X06b	16238	15-11	1154	Tue	Mazielka. Sequence: 1--6-- before XPA2	MFSK	(Dan)
X06b	18238	15-11	1155	Tue	Mazielka. Sequence: 1--6-- before XPA2	MFSK	(Dan)
X06b	16238	15-11	1157	Tue	Mazielka. Sequence: 1--6-- before XPA2	MFSK	(Dan)
X06b	18238	15-11	1158	Tue	Mazielka. Sequence: 1--6-- before XPA2	MFSK	(Dan)
XPA	11409	2-11	0700	Wed	456 1 09651 00197 68782 ... 57570 89170 75217	MFSK-20/10Bd	(AB)
XPA	13509	2-11	0720	Wed	456 1 09651 00197 68782 ... 57570 89170 75217	MFSK-20/10Bd	(AB)
XPA	14609	2-11	0740	Wed	456 1 09651 00197 68782 ... 57570 89170 75217	MFSK-20/10Bd	(AB)
XPA	11409	5-11	0700	Sat	456 456 456 000 07414 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	13509	5-11	0720	Sat	456 456 456 000 07414 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	14609	5-11	0740	Sat	456 456 456 000 07414 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	11409	9-11	0700	Wed	456 1 08530 00221 25771 ... 30141 23995 75510	MFSK-20/10Bd	(AB)

XPA	13509	9-11	0720	Wed	456 1 08530 00221 25771 ... 30141 23995 75510	MFSK-20/10Bd	(AB)
XPA	14609	9-11	0740	Wed	456 1 08530 00221 25771 ... 30141 23995 75510	MFSK-20/10Bd	(AB)
XPA	11409	12-11	0700	Sat	456 1 08530 00221 25771 ... 30141 23995 75510	MFSK-20/10Bd	(AB)
XPA	13509	12-11	0720	Sat	456 1 08530 00221 25771 ... 30141 23995 75510	MFSK-20/10Bd	(AB)
XPA	14609	12-11	0740	Sat	456 1 08530 00221 25771 ... 30141 23995 75510	MFSK-20/10Bd	(AB)
XPA	11409	16-11	0700	Wed	456 456 456 000 04197 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	13509	16-11	0720	Wed	456 456 456 000 04197 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	14609	16-11	0740	Wed	456 456 456 000 04197 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	11409	19-11	0700	Sat	456 456 456 000 03951 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	13509	19-11	0720	Sat	456 456 456 000 03951 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	14609	19-11	0740	Sat	456 456 456 000 03951 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	11409	23-11	0700	Wed	456 1 07729 00171 48217 ... 31457 81798 10077	MFSK-20/10Bd	(AB)
XPA	13509	23-11	0720	Wed	456 1 07729 00171 48217 ... 31457 81798 10077	MFSK-20/10Bd	(AB)
XPA	14609	23-11	0740	Wed	456 1 07729 00171 48217 ... 31457 81798 10077	MFSK-20/10Bd	(AB)
XPA	11409	26-11	0700	Sat	456 1 07729 00171 48217 ... 31457 81798 10077	MFSK-20/10Bd	(AB)
XPA	13509	26-11	0720	Sat	456 1 07729 00171 48217 ... 31457 81798 10077	MFSK-20/10Bd	(AB)
XPA	14609	26-11	0740	Sat	456 1 07729 00171 48217 ... 31457 81798 10077	MFSK-20/10Bd	(AB)
XPA	11409	30-11	0700	Wed	456 456 456 000 08094 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	13509	30-11	0720	Wed	456 456 456 000 08094 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	14609	30-11	0740	Wed	456 456 456 000 08094 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA2	14517	1-11	0700	Tue	03914 00153 13524 ... 23381 13678 00725	MFSK-16/20Bd	(AB)
XPA2	16017	1-11	0720	Tue	03914 00153 13524 ... 23381 13678 00725	MFSK-16/20Bd	(AB)
XPA2	17417	1-11	0740	Tue	03914 00153 13524 ... 23381 13678 00725	MFSK-16/20Bd	(AB)
XPA2	18238	1-11	1300	Tue	01385 00095 05433 ... 53942 37915 83711	MFSK-16/20Bd	(AB)
XPA2	16238	1-11	1320	Tue	01385 00095 05433 ... 53942 37915 83711	MFSK-16/20Bd	(AB)
XPA2	14438	1-11	1340	Tue	01385 00095 05433 ... 53942 37915 83711	MFSK-16/20Bd	(AB)
XPA2	16073	2-11	0800	Wed	07886 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14973	2-11	0820	Wed	07886 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14373	2-11	0840	Wed	07886 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14517	4-11	0700	Fri	03914 00153 13524 ... 23381 13678 00725	MFSK-16/20Bd	(AB)
XPA2	16017	4-11	0720	Fri	03914 00153 13524 ... 23381 13678 00725	MFSK-16/20Bd	(AB)
XPA2	17417	4-11	0740	Fri	03914 00153 13524 ... 23381 13678 00725	MFSK-16/20Bd	(AB)
XPA2	17462	4-11	1400	Fri	00188 00083 15464 ... 08118 64854 37166	MFSK-16/20Bd	(AB/HFD)
XPA2	16114	4-11	1420	Fri	00188 00083 15464 ... 08118 64854 37166	MFSK-16/20Bd	(AB/HFD)
XPA2	14828	4-11	1440	Fri	msg XPA2r	MFSK-16/20Bd	(HFD)
XPA2	14828	4-11	1440	Fri	00188 00083 15464 ... 08118 64854 37166	MFSK-16/20Bd	(AB/MPJ)
XPA2	17462	5-11	1400	Sat	00188 00083 15464 ... 08118 64854 37166	MFSK-16/20Bd	(AB)
XPA2	16114	5-11	1420	Sat	00188 00083 15464 ... 08118 64854 37166	MFSK-16/20Bd	(AB)
XPA2	14828	5-11	1440	Sat	00188 00083 15464 ... 08118 64854 37166	MFSK-16/20Bd	(AB)
XPA2	18238	6-11	1300	Sun	09433 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	16238	6-11	1320	Sun	09433 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14438	6-11	1340	Sun	09433 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	16073	7-11	0800	Mon	02654 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14973	7-11	0820	Mon	02654 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14373	7-11	0840	Mon	02654 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14517	8-11	0700	Tue	Message	MFSK-16/20Bd	(HFD)
XPA2	16017	8-11	0720	Tue	Message	MFSK-16/20Bd	(HFD)
XPA2	17417	8-11	0740	Tue	Message	MFSK-16/20Bd	(HFD)
XPA2	18238	8-11	1300	Tue	04871 00001 00000 10140	MFSK-16/20Bd	(AB/HFD)
XPA2	16238	8-11	1320	Tue	04871 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ/HF D)
XPA2	14438	8-11	1340	Tue	04871 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ/HF D)
XPA2	16073	9-11	0800	Wed	05545 00001 00000 10140	MFSK-16/20Bd	(AB/Dan/HF D)
XPA2	14973	9-11	0820	Wed	05545 00001 00000 10140	MFSK-16/20Bd	(AB/Dan/HF D)

XPA2	14373	9-11	0840	Wed	05545 00001 00000 10140	MFSK-16/20Bd	(AB/Dan/HF D)
XPA2	14517	11-11	0700	Fri	09937 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	16017	11-11	0720	Fri	09937 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	17417	11-11	0740	Fri	09937 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	17462	11-11	1400	Fri	04667 00083 36909 ... 48122 66684 34450	MFSK-16/20Bd	(AB)
XPA2	16114	11-11	1420	Fri	04667 00083 36909 ... 48122 66684 34450	MFSK-16/20Bd	(AB)
XPA2	14828	11-11	1440	Fri	04667 00083 36909 ... 48122 66684 34450	MFSK-16/20Bd	(AB)
XPA2	17462	12-11	1400	Sat	04667 00083 36909 ... 48122 66684 34450	MFSK-16/20Bd	(AB/MPJ)
XPA2	16114	12-11	1420	Sat	04667 00083 36909 ... 48122 66684 34450	MFSK-16/20Bd	(AB/MPJ)
XPA2	14828	12-11	1440	Sat	04667 00083 36909 ... 48122 66684 34450	MFSK-16/20Bd	(AB/MPJ)
XPA2	18238	13-11	1300	Sun	06734 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	16238	13-11	1320	Sun	06734 00001 00000 10140	MFSK-16/20Bd	(AB/RL)
XPA2	14438	13-11	1340	Sun	06734 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	16073	14-11	0800	Mon	07947 00001 00000 10140	MFSK-16/20Bd	(AB/Dan)
XPA2	14973	14-11	0820	Mon	07947 00001 00000 10140	MFSK-16/20Bd	(AB/Dan)
XPA2	14373	14-11	0840	Mon	07947 00001 00000 10140	MFSK-16/20Bd	(AB/Dan)
XPA2	14517	15-11	0700	Tue	05365 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	16017	15-11	0720	Tue	05365 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	17417	15-11	0740	Tue	05365 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	18238	15-11	1300	Tue	04261 00001 00000 10140	MFSK-16/20Bd	(AB/Dan/MP J)
XPA2	16238	15-11	1320	Tue	04261 00001 00000 10140	MFSK-16/20Bd	(AB/Dan/RL/ MPJ)
XPA2	14438	15-11	1340	Tue	04261 00001 00000 10140	MFSK-16/20Bd	(AB/Dan/MP J)
XPA2	16073	16-11	0800	Wed	02541 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14973	16-11	0820	Wed	02541 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14373	16-11	0840	Wed	02541 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14517	18-11	0700	Fri	07854 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	16017	18-11	0720	Fri	07854 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	17417	18-11	0740	Fri	07854 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	17462	18-11	1400	Fri	03359 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	16114	18-11	1420	Fri	03359 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	14828	18-11	1440	Fri	03359 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	17462	19-11	1400	Sat	05403 00079 24142 ... 97311 66568 36615	MFSK-16/20Bd	(AB)
XPA2	16114	19-11	1420	Sat	05403 00079 24142 ... 97311 66568 36615	MFSK-16/20Bd	(AB)
XPA2	14828	19-11	1440	Sat	05403 00079 24142 ... 97311 66568 36615	MFSK-16/20Bd	(AB/MPJ)
XPA2	18238	20-11	1300	Sun	05918 00053 25042 ... 65273 91910 62477	MFSK-16/20Bd	(AB)
XPA2	16238	20-11	1320	Sun	05918 00053 25042 ... 65273 91910 62477	MFSK-16/20Bd	(AB)
XPA2	14438	20-11	1340	Sun	05918 00053 25042 ... 65273 91910 62477	MFSK-16/20Bd	(AB)
XPA2	16073	21-11	0800	Mon	02975 00223 92639 ... 16813 98318 70302	MFSK-16/20Bd	(AB)
XPA2	14973	21-11	0820	Mon	02975 00223 92639 ... 16813 98318 70302	MFSK-16/20Bd	(AB)
XPA2	14373	21-11	0840	Mon	02975 00223 92639 ... 16813 98318 70302	MFSK-16/20Bd	(AB)
XPA2	14517	22-11	0700	Tue	08136 00203 65406 ... 52646 80252 13611	MFSK-16/20Bd	(AB)
XPA2	16017	22-11	0720	Tue	08136 00203 65406 ... 52646 80252 13611	MFSK-16/20Bd	(AB)
XPA2	17417	22-11	0740	Tue	08136 00203 65406 ... 52646 80252 13611	MFSK-16/20Bd	(AB)
XPA2	18238	22-11	1300	Tue	05918 00053 25042 ... 65273 91910 62477	MFSK-16/20Bd	(AB/RL)
XPA2	16238	22-11	1320	Tue	05918 00053 25042 ... 65273 91910 62477	MFSK-16/20Bd	(AB)
XPA2	14438	22-11	1340	Tue	05918 00053 25042 ... 65273 91910 62477	MFSK-16/20Bd	(AB/MPJ)
XPA2	16073	23-11	0800	Wed	02975 00223 92639 ... 16813 98318 70302	MFSK-16/20Bd	(AB)
XPA2	14973	23-11	0820	Wed	02975 00223 92639 ... 16813 98318 70302	MFSK-16/20Bd	(AB)
XPA2	14373	23-11	0840	Wed	02975 00223 92639 ... 16813 98318 70302	MFSK-16/20Bd	(AB)
XPA2	14517	25-11	0700	Fri	08136 00203 65406 ... 52646 80252 13611	MFSK-16/20Bd	(AB)
XPA2	16017	25-11	0720	Fri	08136 00203 65406 ... 52646 80252 13611	MFSK-16/20Bd	(AB)
XPA2	17417	25-11	0740	Fri	08136 00203 65406 ... 52646 80252 13611	MFSK-16/20Bd	(AB)
XPA2	17462	25-11	1400	Fri	05914 00001 00000 10140	MFSK-16/20Bd	(AB-GRC)

<b>XPA2</b>	16114	25-11	1420	Fri	05914 00001 00000 10140	MFSK-16/20Bd	(AB-GRC/MPJ)
<b>XPA2</b>	14828	25-11	1440	Fri	05914 00001 00000 10140	MFSK-16/20Bd	(AB-GRC/MPJ)
<b>XPA2</b>	17462	26-11	1400	Sat	02442 00001 00000 10140	MFSK-16/20Bd	(AB)
<b>XPA2</b>	16114	26-11	1420	Sat	02442 00001 00000 10140	MFSK-16/20Bd	(AB)
<b>XPA2</b>	14828	26-11	1440	Sat	02442 00001 00000 10140	MFSK-16/20Bd	(AB)
<b>XPA2</b>	18238	27-11	1300	Sun	06933 00001 00000 10140	MFSK-16/20Bd	(AB)
<b>XPA2</b>	16238	27-11	1320	Sun	06933 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
<b>XPA2</b>	14438	27-11	1340	Sun	06933 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
<b>XPA2</b>	16073	28-11	0800	Mon	05725 00001 00000 10140	MFSK-16/20Bd	(AB/Dan)
<b>XPA2</b>	14973	28-11	0820	Mon	05725 00001 00000 10140	MFSK-16/20Bd	(AB/Dan)
<b>XPA2</b>	14373	28-11	0840	Mon	05725 00001 00000 10140	MFSK-16/20Bd	(AB/Dan)
<b>XPA2</b>	14517	29-11	0700	Tue	04806 00143 32194 ... 25760 01467 13663	MFSK-16/20Bd	(AB)
<b>XPA2</b>	16017	29-11	0720	Tue	04806 00143 32194 ... 25760 01467 13663	MFSK-16/20Bd	(AB)
<b>XPA2</b>	17417	29-11	0740	Tue	04806 00143 32194 ... 25760 01467 13663	MFSK-16/20Bd	(AB)
<b>XPA2</b>	18238	29-11	1300	Tue	07425 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
<b>XPA2</b>	16238	29-11	1320	Tue	07425 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
<b>XPA2</b>	14438	29-11	1340	Tue	07425 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
<b>XPA2</b>	16073	30-11	0800	Wed	01171 00001 00000 10140	MFSK-16/20Bd	(AB)
<b>XPA2</b>	14973	30-11	0820	Wed	01171 00001 00000 10140	MFSK-16/20Bd	(AB)
<b>XPA2</b>	14373	30-11	0840	Wed	01171 00001 00000 10140	MFSK-16/20Bd	(AB)
<b>XSL</b>	6250	10-11	0618	Thu	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-HK)
<b>XSL</b>	6417	10-11	0618	Thu	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-HK)
<b>XSL</b>	6445	10-11	0618	Thu	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-HK)
<b>XSL</b>	8313	10-11	0618	Thu	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-HK)
<b>XSL</b>	4153	10-11	1155	Thu	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-AUS)
<b>XSL</b>	4231.5	10-11	1155	Thu	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-AUS)
<b>XSL</b>	4291	10-11	1155	Thu	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-AUS)
<b>XSL</b>	6250	10-11	1155	Thu	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-AUS)
<b>XSL</b>	6417	10-11	1155	Thu	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-AUS)
<b>XSL</b>	6445	10-11	1155	Thu	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-AUS)
<b>XSL</b>	8313	10-11	1155	Thu	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-AUS)
<b>XSL</b>	8508	10-11	1155	Thu	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-AUS)
<b>XSL</b>	8703.5	10-11	1155	Thu	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-AUS)
<b>XSL</b>	6250	11-11	2122	Fri	Japanese navy a.k.a. slot machine	QPSK 1500Bd	(ES)
<b>XSL</b>	4153	23-11	1304	Wed	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-AUS)
<b>XSL</b>	4231.5	23-11	1304	Wed	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-AUS)
<b>XSL</b>	4291	23-11	1304	Wed	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-AUS)
<b>XSL</b>	6250	23-11	1304	Wed	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-AUS)
<b>XSL</b>	6417	23-11	1304	Wed	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-AUS)
<b>XSL</b>	6445	23-11	1304	Wed	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-AUS)
<b>XSL</b>	8313	23-11	1304	Wed	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-AUS)
<b>XSL</b>	8508	23-11	1304	Wed	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-AUS)
<b>XSL</b>	8703.5	23-11	1304	Wed	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-AUS)

## CONTRIBUTORS

AAI	Antonio Anselmi, Italy	F5JBR	F5JBR André, France
AB	Ary Boender, Netherlands	Faux	Faux, Ireland
AB-AUS	Ary Boender via remote rx Australia	GHn	Gary Hagermann, UK
AB-AUT	Ary Boender via remote rx Austria	HFD	Hans-Friedrich Dumrese, Germany
AB-B	Ary Boender via remote rx Brazil	IK0OZK	IK0OZK Renato, Italy
AB-FNL	Ary Boender via remote rx Finland	JPL	JPL, Ontario, Canada (and various remotes)
AB-GRC	Ary Boender via remote rx Greece	JPL-AUS	JPL via remote rx Logan, Australia
AB-HK	Ary Boender via remote rx Hong Kong	JPL-HK	JPL via remote rx Hong Kong
AB-I	Ary Boender via remote rx Italy	JPL-KOR	JPL via remote rx South Korea
AB-ISL	Ary Boender via remote rx Iceland	JPL-NZL	JPL via remote rx New Zealand
AB-J	Ary Boender via remote rx Japan	JPL-S	JPL via remote rx Sweden
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	JU	Jay Updike, W. Europe
AB-POL	Ary Boender via remote rx Poland	Kimi	Kimi, Japan
AB-RUS	Ary Boender via remote rx Russia	LLj	Lance Lovejoy
AB-S	Ary Boender via remote rx Sweden	MCO	Mike Chace-Ortiz, PA, USA
AB-USA	Ary Boender via remote rx USA	MDK2	MDK2, USA
BCL	bclman, S. Korea	Moo	Moomin, S. Korea
BW3	Barry Williams, AL, USA	MPJ	Jim, SW England
CD3	coastiedan	Priyom	Priyom.org
CP2	Christmas Peter	PW2	Parkeerwacht, The Netherlands
Dan	Daniel, Argentina	qsr711	QSR711
Danix	Danix111, Poland	RL	Landolpho, Brazil
Danix-RUS	Danix via remote rx Russia	RR2	Rich Ray, IL, USA
Danix-USA	Danix via remote rx USA	Sha	shadypyro
DSch	Don Schimmel, WV, USA	Stock	Stock
EA2NR	Kepa Moreno, Spain	Token	TI, CA, USA
ES	Edward Smith	Tom	Tom, Lincs, UK
ES-AUT	Edward Smith via remote rx Austria	Uascan	Uascan, S

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**HF UNDERGROUND** <http://www.hfunderground.com/board/>

**PRIYOM** <http://priyom.org/>

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

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

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7269 76329 74698 76857 98678 27601 56701 57601 73648 1  
591 87364 87265 96710 27638 12673 84769 28743 98127 5  
63298 75698 27465 87326 49876 28376 81273 98615 81  
67 87432 74328 78674 29867 32867 67867 86786 43266 43  
67 68768 68763 34234 34238 68768 62342 48273 48768 23  
936 98432 32432 86743 43286 43286 43286 43286 43286 43  
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