

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
723	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	43286	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
76	87698	69876	87698	69876	87612	12341	34867	86798	632
667	43298	65656	56756	56123	32143	14321	32143	14321	321
71	02787	58765	76587	58765	76587	58765	76587	58756	765
75476	96543	54365	36543	54365	36543	54365	36543	54365	543

# Numbers & Oddities

## a.k.a. The Spooks Newsletter

### Edition #234, March 2017

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.

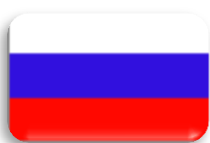


28 March marked the 11<sup>th</sup> birthday of UDXF, the Utility DXers Forum

Welcome to the 234<sup>th</sup> edition of Numbers & Oddities. We have LOT of unids, Russian military logs and EAMs for you. Plus of course an overview of the numbers activity in March. Any help to identify the unids is most welcome!

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## VOICE STATIONS



E06

### **5186 kHz, 02-03/16-03, 2030 UTC**

891 149 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

On 16-03: Windows XP shutdown sound

### **5183 kHz, 03-03, 2130 UTC / 5187 kHz, 17-03, 2130 UTC** (On 17-03: Windows XP shutdown sound at the end)

634 149 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

### **16083/12119 kHz, 15-03, 1340/1440 UTC**

346 197 42  
44373 08948 63062 96802 37169 65390 72571 54190 32865 61385  
26034 53892 43156 98734 71062 68565 60895 90803 04586 61364  
51016 14076 90879 20805 49960 67928 37869 82543 28039 29482  
01269 35203 20929 79089 90754 75185 04267 83432 68784 71813  
36489 80953  
197 42 00000

**12202/8022 kHz, 15-03- 2017, 1430/1530 UTC**

158 637 52  
63293 38015 50549 86208 18635 35709 28132 01712 90616 53056  
95860 74863 79457 98787 80647 06494 18034 72869 23956 73791  
61346 47419 67491 63280 62425 04841 89302 16415 86562 94570  
87907 06714 93146 58787 87684 73572 38543 49601 51491 65453  
09209 79676 25276 18506 30580 23693 17646 17302 12580 85264  
74837 56109  
637 52 00000

**16230/19325 kHz, 16-03, 0600/0700 UTC**

864 275 103  
64964 28192 89292 34695 61495 21054 04547 65185 82629 57919  
83803 30957 33033 88259 80164 01191 52040 50919 73667 80163  
56428 81704 77979 84417 44993 30046 92481 46976 38393 51943  
35716 28299 52676 71354 21113 38666 29934 27243 60932 01670  
74534 48442 09383 13513 68342 23551 80818 77789 63390 58031  
03991 20450 75434 35701 98254 14617 26808 26808 82699 69964  
12049 09875 54116 66330 84708 99503 94760 36248 88786 97316  
95827 26106 83243 08238 07596 90591 33002 89289 52165 00138  
64906 23097 59729 66034 12045 33288 14318 12912 94902 83973  
19960 53266 12755 30500 23183 43730 43765 13653 52801 27770  
77201 14516 62928  
275 103 00000



*E07*

**10112/11112/12112 kHz, 04-03/05-03, 0700/0720/0740 UTC**

111 111 111 1 505 54 505 54  
54002 86792 41195 23028 17169 19775 14461 99677 94300 29678  
95015 25954 00127 92013 98165 10302 14674 38392 46158 96863  
56108 28613 31988 32584 99686 04999 04973 24891 11221 31017  
63511 38141 29906 27589 36759 28026 80234 60604 68294 13407  
39533 68246 00759 09560 90108 76167 10227 73728 12156 03272  
29103 96083 01975 88502  
000 000

**9060 kHz, 07-03, 0945 UTC**

687 687 687 1 5436 21 5436 21  
00098 97269 66394 58400 63787 42059 06646 43467 83822 54763  
92606 01284 44470 15225 73816 75105 48520 37932 84971 10284  
07385  
000 000

Preceded by a Slavic version of the same message. Possibly S07 or an exercise.

**10651/9151/7651 kHz, 08-03/13-03/15-03, 2000/2020/2040 UTC**

616 616 616 1 428 14 428 14  
90048 40005 36295 02253 91468 85697 65098 89724 68557 50304  
67909 68147 06572 34433  
000 000

**10112/11112/12112 kHz, 11-03/12-03, 0700/0720/0740 UTC**

111 111 111 1 118 16 118 16  
22522 79236 52228 69189 86477 10092 37328 07660 60461 19502  
61309 07240 07956 38182 07259 10951  
000 000

**13439/12139/10739 kHz, 15-03, 1800/1820/1840 UTC**

417 417 417 1 543 62 543 62  
62749 07877 08720 68805 78893 41143 95433 36626 29298 30222  
77252 99686 88145 67209 50644 27284 13871 20235 45091 18291  
90701 76473 30683 95409 17708 78150 36696 45728 02660 69587  
40913 81632 19160 32917 64637 22108 53006 12262 18357 14637  
64922 30438 23765 84106 08519 87434 65145 38995 94930 15544  
48311 48343 35243 82432 27703 68812 83045 74773 79771 55563  
49427 70394  
000 000

**13439/12139/10739 kHz, 19-03/22-03, 1800/1820/1840 UTC**

417 417 417 2 543 62 543 62  
62749 07877 08720 68805 78893 41143 95433 36626 29298 30222  
77252 99686 88145 67209 50644 27284 13871 20235 45091 18291  
90701 76473 30683 95409 17708 78150 36696 45728 02660 69587  
40913 81632 19160 32917 64637 22108 53006 12262 18357 14637  
64922 30438 23765 84106 08519 87434 65145 38995 94930 15544  
48311 48343 35243 82432 27703 78812 83045 74773 79771 55563  
49427 70394

417 417 417 2 422 84 422 84  
31906 31081 03778 14448 42892 26437 33025 21831 19185 87023  
39396 84370 39322 69932 76979 04240 91367 45512 81845 68032  
46345 69573 89160 78201 87944 99568 33460 51779 37495 31394  
52351 70915 64458 27624 79342 74263 17400 67787 13487 37585  
59687 13340 69862 91733 59009 77614 55232 37248 62233 79670  
79784 09170 54183 64157 69701 03573 86441 18012 74489 72253  
88841 75514 10405 05695 49583 98307 01695 65548 05672 07411  
17329 22039 54300 76337 70767 61629 21566 86549 36409 21319  
96030 50920 56026 40460  
000 000

**19118/17418/15918 kHz, 21-03/24-03, 1100/1120/1140 UTC**

149 149 149 1 1745 129 1745 129  
08118 65754 23897 49439 04512 25653 01913 76771 64167 56084  
60136 41182 49201 94129 84900 61036 22354 34050 65937 98787  
57897 96043 59396 45388 50816 99688 74456 71775 93478 57146  
44880 49707 82649 85721 15373 65007 68874 93156 33810 87302  
14058 24631 67782 90093 19937 61455 74486 11183 13174 65836  
99400 77386 14840 28859 36171 52559 72115 36473 86099 30624  
88278 77926 28343 39465 45027 36343 30861 33845 99746 78595  
88165 81294 14781 92477 33792 37418 45435 55859 20187 90150  
39621 41208 31228 68279 95473 98575 97138 54047 22669 56488  
17771 42316 70280 67878 89977 86445 19900 66822 10741 40245  
61721 75551 44104 67836 94750 62440 01541 17895 89465 54566  
61570 03104 70987 96904 98049 51870 14506 04327 30615 89475  
92983 89140 97919 29596 88714 30810 64285 54907 94072  
000 000

**13439/12139/10739 kHz, 29-03, 1800/1820/1840 UTC**

417 417 417 1 866 83 866 83

36440 83922 63930 65205 84051 54883 72251 77059 11344 14483  
24061 85947 91278 21832 44472 03019 96037 00701 41052 08681  
55879 86770 10585 38264 38493 41772 36960 28844 23503 17522  
17923 08262 41997 85354 01539 10117 84149 05337 20320 24616  
27283 14421 24960 58888 86544 71187 70154 55962 97143 40888  
07909 35715 57718 58262 81652 28928 46440 99456 12826 47734  
84732 46196 28638 62112 13093 55244 44783 48712 23257 31846  
39304 58129 60937 14148 69509 88671 85569 07521 27832 18998  
88345 46673 69807  
000 000

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*E07a*

**5877/5277/4577 kHz, 15-03/22-03, 2100/2120/2140 UTC**

825 825 825 1 17370 7046 55 7046 55

09098 26158 25207 88885 94183 67661 93337 74087 35645 47131  
78718 99370 38756 91275 83753 71026 56784 18356 56472 56814  
24414 88348 93096 04568 58989 29167 17224 21613 83885 01775  
77840 96822 33927 95380 80879 11032 81031 00892 26511 01821  
87270 35824 93732 63385 68145 32485 25156 26861 92899 03150  
63503 38373 17544 29316 68458  
000 000

**6922/8122/9322 kHz, 16-03/23-03, 0530/0550/0610 UTC**

913 913 913 1 17370 7046 55 7046 55

09098 26158 25207 88885 94183 67661 93337 74087 35645 47131  
78718 99370 38756 91275 83753 71026 56784 18356 56472 56814  
24414 88348 93096 04568 58989 29167 17224 21613 83885 01775  
77840 96822 33927 95380 80879 11032 81031 00892 26511 01821  
87270 35824 93732 63385 68145 32485 25156 26861 92899 03150  
63503 38373 17544 29316 68458  
000 000

---



*E11a*

**13873 kHz, 03-03, 1650 UTC**

924/39 Attention

46890 32729 73472 49708 78277 01298 94142 88008 70215 22235  
05898 26941 13832 54735 97443 59645 71195 00177 95704 06099  
49221 43966 99780 02351 88697 11237 39495 01884 37101 06861  
15616 87148 62397 20656 11802 23101 52315 10415 00432  
Attention, rpt msg, out

**10125 kHz, 06-03/09-03, 0820 UTC**

436/36 Attention

93143 36577 78798 49830 29660 31431 14062 64133 67902 30377  
77211 89241 29733 83477 37341 57249 65738 25660 76589 32049  
49080 66576 96933 91614 81995 98594 01235 75152 49316 43594  
04985 76323 40127 35934 94268 64478

Attention, rpt msg, out

**8102 kHz, 07-03, 1045 UTC**

579/31 Attention

69089 19880 92460 52056 21009 13062 53459 62098 08624 88606  
10216 33589 61513 36402 74838 40039 01464 20683 49123 43961  
64944 49789 45823 06099 88968 53208 65194 83561 57633 63984  
26073

Attention, rpt msg, out

**8803 kHz, 08-03/09-03, 0930 UTC**

275/39 Attention

00681 05611 06798 73479 13884 98503 40580 79236 24177 03480  
88191 38515 58094 47415 37340 78959 58491 08293 18211 08683  
72131 33209 78036 32181 20213 67218 62500 06068 30921 05901  
97210 76656 91724 32718 78353 57619 16653 43915 76328

Attention, rpt msg, out

**10213 kHz, 08-03/11-03, 1705 UTC**

390/38 Attention

97998 68925 36928 16836 11091 20081 88077 15948 84070 46013  
42817 77190 47716 82657 26603 67597 70560 35195 19659 16698  
25563 59819 08753 51728 23583 68557 54698 66793 61967 81494  
93166 50043 64462 86271 81715 71213 00926 06404

Attention, rpt msg, out

**5844 kHz, 08-03/11-03, 1730 UTC**

402/35 Attention

83436 01573 25499 79709 86949 95223 73134 88770 42134 18791  
15797 26055 30027 36096 72061 70739 88998 01181 14073 59032  
27500 15510 25336 36409 98337 75193 94728 97475 06571 77502  
71161 52678 74577 23257 14386

Attention, rpt msg, out

**7850 kHz, 09-03, 0315 UTC**

255/30 Attention

76992 80894 98416 29823 64948 98882 98565 94596 55398 40622  
68231 18781 03662 32236 35663 39787 61970 33252 01571 35750  
58005 04016 45350 47916 96727 13365 00341 14962 62293 79235

Attention, rpt msg, out

**8186 kHz, 11-03/12-03, 2005 UTC**

368/37 Attention

05054 95064 56385 63874 15127 19220 75020 60007 43893 33150  
11858 65138 97541 84481 75132 42973 33710 50736 96685 00065  
91810 22565 46425 03825 97679 79162 71987 48075 65500 43815  
44601 12687 21991 69761 20169 97098 85090

Attention, rpt msg, out

**10213 kHz, 13-03, 0745 UTC**

**10330 kHz, 16-03, 1530 UTC**

269/39 Attention

88609 89638 29066 59418 81846 21103 24778 42521 30842 20296  
01056 90491 72496 38715 66555 91130 30452 03371 24598 17624  
47245 83919 69208 64805 61289 23141 60400 28661 15215 86294  
64182 83978 50176 53086 93499 18604 32017 12462 88207

Attention, rpt msg, out

**13470 kHz, 13-03/19-03, 1745 UTC**

244/34 Attention

34546 78606 65122 96361 48846 20337 51272 96808 17903 64718  
04626 33938 60014 35121 42570 82945 01169 04309 78328 33159  
52152 93614 51021 20930 18509 06561 02854 83100 34077 14761  
12148 18613 57248 71126

Attention, rpt msg, out

**14575 kHz, 14-03/16-03, 0745 UTC**

333/35 Attention

43281 93312 10178 40947 89083 70249 61199 14002 38524 93070  
63656 56156 22678 44682 93925 63614 50825 82486 95498 60063  
21724 28299 80144 64569 74566 02932 17961 58532 85069 16351  
92526 07550 90890 50584 93329

Attention, rpt msg, out

**15915 kHz, 15-03/17-03, 0545 UTC**

340/31 Attention

45462 56964 77708 56131 88867 52852 03765 67111 19825 94613  
72374 91677 25790 79830 85690 89167 40474 52997 77163 75736  
94784 63242 10821 99877 51619 76040 03405 56184 65079 62648  
61083

Attention, rpt msg, out

**11450 kHz, 15-03/19-03, 0805 UTC**

319/32 Attention

95342 38373 52736 27536 54060 65732 76369 80618 56892 61472  
68756 62581 31376 38447 50315 13609 80318 91169 50515 33082  
31513 45671 90552 45154 35497 05349 14138 27792 61537 49479  
57177 00813

Attention, rpt msg, out

**10448 kHz, 15-03/19-03, 1625 UTC**

975/33 Attention

03910 00582 36645 85633 02301 59093 27583 71121 53630 27568  
11268 10899 29952 52940 70632 89369 97487 01650 43857 79800  
55829 34308 69114 64554 18824 27556 02915 70179 32172 39345  
74344 23760 56367

Attention, rpt msg, out

**14769 kHz, 16-03/18-03, 0710 UTC**

495/31 Attention

21188 47592 49943 77466 47711 90747 63268 11559 35775 83809  
20646 10727 52353 81146 68353 78666 92272 69359 91287 02047  
52354 68730 00317 97616 97097 39466 33910 22965 26666 76816  
82625

Attention, rpt msg, out

**10330 kHz, 16-03, 1530 UTC**

269/39 Attention

88609 89638 29066 59418 81846 21103 24778 42521 30842 20296  
01056 90491 72496 38715 66555 91130 30452 03371 24598 17624  
47245 83919 69208 64805 61289 23141 60400 28661 15215 86294  
64182 83978 50176 53086 93499 18604 32017 12462 88207

Attention, rpt msg, out

**15825 kHz, 17-03/19-03, 0730 UTC**

358/34 Attention

67612 02487 56298 28087 68980 93126 49470 99437 04867 20287  
76192 52260 97146 43759 83167 64935 51637 37233 10457 79614  
32208 00306 30914 73056 86777 54353 52825 45693 06658 76695  
53297 29410 92196 09003

Attention, rpt msg, out

**7317 kHz, 20-03/23-03, 0530 UTC**

646/35 Attention

16411 43516 11394 21659 53181 59960 23927 01816 68479 91923  
24198 46007 64078 35640 84194 72820 93541 47731 99408 16096  
99727 01344 58073 24292 10527 33662 61736 92990 57132 48624  
17693 71551 40332 94478 94791

Attention, rpt msg, out

**12202 kHz, 20-03/24-03, 0600 UTC**

183/38 Attention

35563 00385 87898 02476 95049 91341 72330 67448 05289 09286  
43953 42547 69460 47264 75847 83758 41936 22719 31775 73952  
64397 33246 65819 07922 55927 05852 64119 25978 05632 18547  
84856 77174 75195 02880 83989 66307 61599 59282

Attention, rpt msg, out

**10800 kHz, 21-03/23-03, 0645 UTC**

510/35 Attention

43934 37883 35660 15582 70733 27779 26529 96720 61703 62320  
76873 38020 72319 49582 66631 05600 19699 99065 24911 39833  
29149 19135 72682 57591 70644 14597 17402 64518 39424 82464  
14675 48174 17199 39255 94577

Attention, rpt msg, out

**6397 kHz, 21-03/26-03, 1605 UTC**

238/32 Attention

15584 99612 66235 54394 25897 55883 31306 41810 96032 71538  
22814 49092 29790 68162 89231 59593 22779 11705 61106 88459  
88979 26537 86866 05703 59312 20615 27986 44826 57463 83363  
53799 65651

Attention, rpt mdg, out

**9399 kHz, 20-03/22-03, 0900 UTC**

538/38 Attention

37557 57984 62195 63160 83568 24919 11365 56162 35642 83765  
19558 43027 46023 32952 00940 80614 11401 97084 66229 17810  
79201 79485 20152 50044 46211 21041 55694 17695 87797 89053  
13983 03543 65136 26410 11827 08028 67506 26767

Attention, rpt msg, out



**10302 kHz, 23-03/25-03, 1300 UTC**

589/35 Attention

98890 85459 34036 44715 98832 74726 37573 71958 55489 28429  
79825 81899 91306 06157 15106 12430 86207 28229 25486 90507  
85577 84961 23555 61875 98988 86105 45651 69086 63208 10121  
41483 47628 26049 51810 57019

Attention, rpt msg, out

**6304 kHz, 27-03, 0450 UTC**

410/37 Attention

85524 35285 66333 42192 04108 00879 30980 90844 91388 85783  
06063 07913 50770 55194 78600 44747 01905 97388 60352 21214  
36067 61847 03340 07357 20970 99481 29311 13920 90475 44882  
41255 56029 16031 25659 46714 79977 50627

Attention, rpt msg, out

**20286 kHz, 27-03/31-03, 1225 UTC**

525/34 Attention

45403 33171 47901 23367 85309 07167 92534 59632 89168 81951  
61741 87110 56021 66412 68845 87525 46859 04177 19049 56042  
35969 46849 27892 03003 34311 38341 28269 98741 81166 24703  
21638 19991 27622 04122

Attention, rpt msg, out

**9963 kHz, 28-03/31-03, 0710 UTC**

632/38 Attention

59851 22429 70189 00724 52346 56024 24612 51333 83218 22437  
78164 37974 35142 25155 85719 39362 45462 06662 80646 45839  
24494 30955 21895 18354 95875 81311 77315 54405 20267 14663  
15927 99547 12519 95543 93299 11942 83939 18518

Attention, rpt msg, out

**7840 kHz, 28-03/31-03, 1000 UTC**

300/28 Attention

92300 26885 96811 57622 83590 24281 92916 49138 44653 02379  
17123 12221 43810 36864 15825 54662 02630 53811 47756 58288  
65569 30012 12624 25314 80361 04564 16117 43875

Attention, rpt msg, out

**9443 kHz, 28-03/29-03, 1205 UTC**

466/40 Attention

92384 85974 89227 28266 90644 45908 04384 14115 09502 56380  
94201 36192 33491 91639 88619 57215 11937 11043 07369 43690  
21823 94651 01835 41896 85701 17388 36692 76394 43925 55260  
61614 66596 78439 20233 58812 01778 79581 17973 37810 32808

Attention, rpt msg, out

**9371 kHz, 30-03, 1730 UTC**

410/37 Attention

85524 35285 66333 42192 04108 00879 30980 90844 91388 85783  
06063 07913 50770 55194 78600 44747 01905 97388 60352 21214  
36067 61847 03340 07357 20970 99481 29311 13920 90475 44882  
41255 56029 16031 25659 46714 79977 50627

Attention, rpt msg, out



E17z

**14260/12930 kHz, 02-03/09-03, 0800/0810 UTC**

674 230 5 34031 33430 37536 34106 29698 230 5 00000

Note: Extremely weak on 02-03; unreadable. On 09-03 the signal was again very poor.  
I am not sure if all the groups are correct.

**14260/12930 kHz, 16-03/23-03, 0800/0810 UTC**

674 821 5 83605 37436 33134 35868 38013 821 5 00000

---



E25

**6140 kHz, 06-03, 0916 UTC**

111 111 111 111 111 111 111 111

Message, message, message

9975 7250 2001 5808 9279 5930 8756 3764 5952 7250

Rebeat, rebat, rebat

9975 7250 2001 5808 9279 5930 8756 3764 5952 7250

End of message

End of transmission

**6140 kHz, 06-03, 0922 UTC**

950 950 950 950 950 950 950 950

Message, message, message

2002 1020 7190 7254 1929 2596 1892 1963 0422 6720

8288 8120 2195 2888 8388 8707 2928 7107 4226 7190

Rebeat, rebat, rebat

2002 1020 7190 7254 1929 2596 1892 1963 0422 6720

8288 8120 2195 2888 8388 8707 2928 7107 4226 7190

End of message

End of transmission

**6140 kHz, 08-03, 1107 UTC**

Windows 7 login

169 169 169 169 169 169 169 169 169 169

Message, message, message

4044 7931 4564 2682 2756 16...

169 169 16... 69 169 169 169 169 169 169 169

Message, message, message

4044 7931 4564 2682 2756 6436 8145

Rebeat, rebat, rebat

4044 7931 4564 2682 2756 6436 8145

End of message

End of transmission

1 (13 secs pause) 69 169 169 169 169 169 169 169 169

Message, message, message

4044 7931 4564 2682 2756 6436...eh

Recording:

<http://priyom.org/media/179433/e25-6140am-20170308-1100z-byparkeerwacht.ogg>

**6140 kHz, 08-03, 1242 UTC**

Windows 7 login

Enta Omri Intro

250 250 250 250

Abruptly cut off at 1243 UTC

**6140 kHz, 09-03, 0845 UTC**

169

Message, message, message

4044 7931 4564 2682 2756 6436 8145

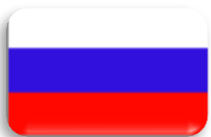
Rebeat, rebat, rebat

4044 7931 4564 2682 2756 6436 8145

End of message. End of transmission

**9600 kHz, 20-03, 1115 UTC**

Near Eastern Music. Test Tone. Carrier Off



G06

**G06 null messages and tests**

Freq	Date	UTC	Details
4598	9-3	1259	329 329 329 00000 Windows XP shutdown sound
5755	15-3	1145	111 00000
4967	15-3	1243	111 00000
6810	20-3	0754	111 111 111 00000
6810	20-3	0758	329 329 329 00000
4598	23-3	1259	329 329 329 00000
5921	23-3	1818	11

**4784/5460 kHz, 06-03/13-03, 1700/1800 UTC**

**5755/4967 kHz, 08-03/15-03, 1200/1300 UTC**

691 241 125

06046 35697 17891 74634 48808 89926 90877 29617 15635 42283

04692 38597 05041 32635 11358 48123 16371 84356 24748 44665

61551 39669 12365 16446 01972 81900 06594 25335 42795 96196

06694 01087 11985 97689 04420 35472 04409 03189 48717 92804

58765 39428 64042 56920 19507 37600 35808 28464 96825 02924

95860 11279 43712 10470 46741 41742 23814 46172 93857 95674

51481 01751 27955 45773 51384 31728 13587 89018 78776 18020

32007 33247 12080 73916 59946 19267 89941 95205 95037 31535

14405 44819 30852 29037 01803 08768 01382 42707 99220 11563

14638 31424 47239 35680 77361 14300 73684 26666 89885 89588

18574 90915 48834 47539 41422 82371 81305 99201 17478 25054

42232 25784 53767 63166 69610 07182 82831 88377 99315 16141

31665 01710 42927 85605 75302

241 241 125 125 00000

**5442 kHz, 10-03/24-03, 1929 UTC**

947 149 52

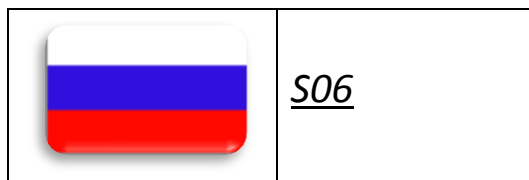
12265 10965 47839 38654 84677 93453 72217 84393 04673 97564  
01824 75643 84221 95647 92112 94543 76577 43435 47322 84232  
95674 87344 57438 45763 49325 57438 92190 96785 21244 05674  
01765 76354 83645 21234 97564 82133 07564 83234 75312 71211  
05674 65374 67321 94884 23483 82521 41212 57333 85331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

**5921 kHz, 23-03, 1828 UTC**

579 149 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

---

**16268 kHz, 02-03/03-03, 0930 UTC**

842 709 33

10880 20656 23425 01263 08209 45608 40413 50774 95708 68270  
06779 84099 50980 93606 07177 98711 07359 93159 98612 51092  
79548 76944 88653 41560 56532 01767 95781 09757 47709 45657  
40296 82945 93194  
709 33 00000

**9463/7353/9337/8077 kHz, 14-03, 1000/1030/1230/1300 UTC**

480 126 40

34415 80223 55958 41217 65183 29850 11428 29156 59073 50456  
13597 38965 53912 84941 38489 09759 70477 07936 70893 69464  
49623 44813 70855 95057 73628 13974 60178 05871 95713 54413  
29604 26043 90696 91313 23879 33264 70090 05259 79739 54765  
126 40 00000

**14913/10387 kHz, 14-03, 1500/1600 UTC**

387 251 47

29701 39029 23956 05124 97417 57839 40297 30439 68767 73216  
08596 72651 61284 08173 54194 14286 45918 65973 38638 87849  
65195 45370 51925 14281 65423 46742 23096 41546 64805 94304  
36561 90314 58097 62356 71323 94387 25201 03437 73979 80857  
05321 35762 98646 31528 48451 09682 35323  
251 47 00000

**12176 kHz, 15-03, 1425 UTC**

583 127 53

33083 58825 86245 73780 56165 79485 40354 51819 34835 28045  
 82785 48135 41079 83865 31979 96847 51617 47151 06028 95343  
 86032 36537 97892 68737 39859 23563 45269 08345 13531 51639  
 54130 48014 21086 94372 40537 29473 53187 30715 47065 68971  
 42347 12393 53218 57509 87261 04348 70409 50791 27427 50818  
 76537 55634 12867  
 127 53 00000

**9463/9337/8077 kHz, 21-03, 1000/1230/1300 UTC**

480 619 45

29892 12160 63004 98610 77027 77900 36871 19030 84327 99556  
 48826 40681 18838 64157 50440 33147 78759 64791 17214 63791  
 24926 19009 37644 43254 57917 06973 93248 07056 26795 68612  
 38242 46045 16619 94601 82040 46795 69921 55941 15903 64313  
 68128 53518 23246 76308 38133  
 619 45 00000

**19415/16268 kHz, 24-03, 0830/0930 UTC**

842 195 36

48527 16580 79885 84784 42003 70925 50807 57145 01436 00670  
 84596 62292 62375 52387 33254 30414 05671 44841 38215 83046  
 73789 69359 26021 76182 50141 05164 78698 24924 06063 73078  
 96035 81602 45174 76042 91936 86707  
 195 36 00000

**9463/7353/9337/8077 kHz, 28-03, 1000/1030/1230/1300 UTC**

480 912 43

07833 86229 49643 26658 00630 24239 66754 71222 25406 68514  
 42102 13665 14101 86553 84810 03156 37918 79230 59749 32740  
 72604 93390 46472 76509 47464 91755 34140 31170 87099 87476  
 74804 95315 14409 02521 55044 77254 23497 29008 09380 93249  
 00790 29330 09572  
 912 43 00000

S06c

7823 kHz, 07-03, 1016 UTC: 11625  
 8171 kHz, 21-03, 0944UTC: 11625  
 8171 kHz, 21-03, 1004 UTC: 11625  
 8171 kHz, 21-03, 0950 UTC: 11625  
 8171 kHz, 21-03, 1005 UTC: 11625



S06s

**9082/9952, 15-03, 0830/0840 UTC**

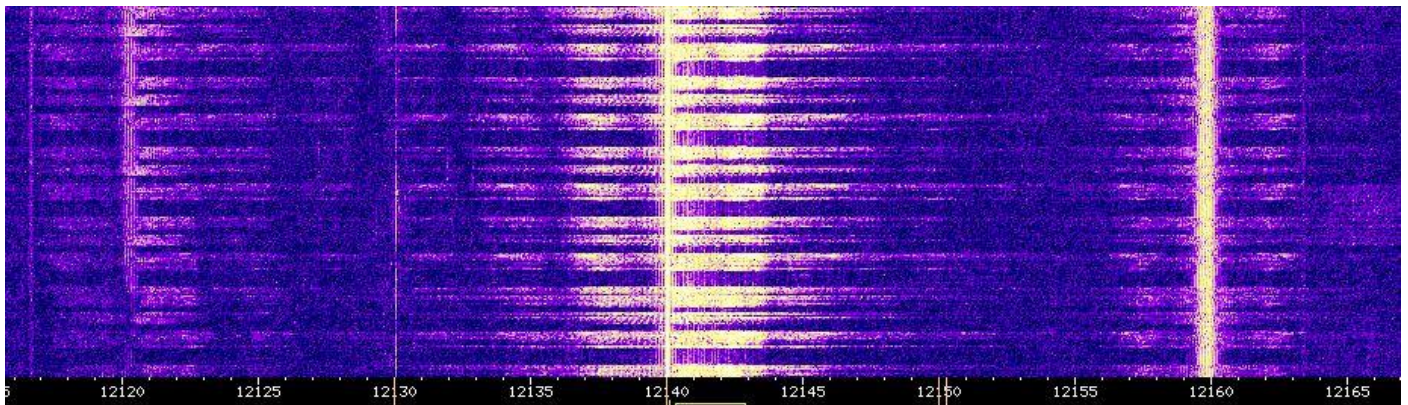
464 231 5 38352 37367 36143 40529 30535 231 5 00000

Both freqs were .1 kHz off freq and at 0840 UTC the 745 transmission on 12140 kHz was audible in the background:

745 230 6 36880 33582 44060 33600 47061 46308 230 6 0000

Note that all transmissions on the 14<sup>th</sup> and 15<sup>th</sup> were one minute late. I guess that their pc time was out of sync.

S06s with several ghost signals



S07

**9060 kHz, 07-03, 0900 UTC**

687 1 5436 21

00098 97269 66394 58400 63787 42059 06646 43467 83822 54763

92606 01284 44470 15225 73816 75105 48520 37932 84971 10284

07385

000 000

Possible S07 followed by E07 with the same message. An exercise?



S11a

**10800 kHz, 01-03, 1540 UTC**

569/32 Vnimaniye

52031 50405 11400 57715 08338 46267 83907 57659 33329 89840

99655 10461 66676 72190 54705 45725 20731 50110 83432 57670

11347 09319 65159 56716 19857 23488 34358 94115 44055 99671

26513 73106

Vnimaniye, rpt msg, konets

**16112 kHz, 06-03/09-03, 1015 UTC**

478/36 Vnimanaye

96014 95164 16959 82526 74653 95279 16190 70481 44139 23256  
 92188 21869 57490 61855 37877 95866 33194 79416 89218 25206  
 87148 30407 53119 78342 89835 52057 86066 04748 15189 48463  
 50192 23785 94664 09033 00996 48479

Vnimanaye, rpt msg, konets

**9960 kHz, 07-03/10-03, 1020 UTC**

425/33 Vnimanaye

38590 91993 78433 55964 82853 21514 77407 39272 42816 55429  
 33203 80076 40997 62100 73908 38036 17085 99198 31486 26934  
 01583 53117 90777 60519 98086 80078 68133 44404 82370 32796  
 95513 24037 33915

Vnimanaye, rpt msg, konets

**7317 kHz, 14-03/17-03, 0915 UTC**

485/39 Vnimanaye

30904 32658 59964 72606 26612 04991 67296 06773 32511 61675  
 33263 94207 54542 68162 25236 20986 88585 68374 36534 51772  
 34815 36404 66109 30335 05164 67817 00062 44730 57551 25394  
 58397 90868 18165 21380 72764 21852 47242 74932 47031

Vnimanaye, rpt msg, konets

**18405 kHz, 27-03/29-03, 0715 UTC**

389/31 Vnimanaye

94151 04281 16468 58749 33120 11508 87238 62561 87282 79414  
 87342 66336 65515 75597 01088 05966 12330 49470 10509 66944  
 52327 88711 38768 54704 35214 05831 26322 57454 09339 05834  
 51337

Vnimanaye, rpt msg, konets

**5358 kHz, 28-03/31-03, 0455 UTC**

320/36 Vnimanaye

39156 96780 87995 04058 23940 46608 22592 92729 78743 53497  
 06436 91642 40828 12567 09938 31702 11913 28566 88451 59938  
 57206 39644 94139 31158 25159 72191 64046 68633 19008 26759  
 78075 54653 57619 33604 02218 49726

Vnimanaye, rpt msg, konets

**4016 kHz, 29-03/31-03, 1955 UTC**

378/30 Vnimanaye

39071 67204 70795 29027 27310 12174 84472 84009 40695 02706  
 57462 48187 29980 42318 80096 48195 37653 07037 14391 40962  
 65359 17555 20223 51211 22565 67523 19183 14261 00432 53334

Vnimanaye, rpt msg, konets

**S28 - The Buzzer**

Mode: USB

Frequency: 4625 kHz

01-03, 1302 UTC	ZhUOZ 94764 VYeSOShPON 43042131
02-03, 1411 UTC	ZhUOZ 47142 GRUZOSHu 60414990
02-03, 1228 UTC	ZhUOZ 96414 KUMOSHiIT 69187832
02-03, 0800 UTC	ZhUOZ 04177 IZVYeSTIYe 05015492
02-03, 0747 UTC	ZhUOZ 82878 BLYeFOMYeNT 91661899

09-03, 1413 UTC	ZhUOZ 09938 VOLGAR' 42067375
09-03, 1310 UTC	ZhUOZ 28806 KONOMAJYa 09716215
09-03, 0953 UTC	ZhUOZ 76840 KARAKOVYJ 06788029
09-03, 1413 UTC	ZhUOZ 69929 VYeRBOVOChNYJ 76279319
09-03, 0807 UTC	ZhUOZ 64482 GLAZORUR 05277796 BOBKOVYJ 89451518
09-03, 0801 UTC	ZhUOZ 13054 GRADOTAJM 33541182
16-03, 1357 UTC	ZhUOZ 47365 IROFON 86145175
16-03, 1327 UTC	ZhUOZ 34674 KAUSTIK 33576329
16-03, 1247 UTC	ZhUOZ 75706 INTRIGANKA 62488614 VYaZNIKOV 32528345
16-03, 1226 UTC	ZhUOZ 63096 ZYeMLYeVYeD 41347310
16-03, 1208 UTC	ZhUOZ 09311 YeL'NICHYeK 73670559
16-03, 1102 UTC	ZhUOZ 14801 KOBOKYuRI 23370673.
	Female voice on background answering the phone: Operative duty officer...
16-03, 1001 UTC	ZhUOZ 10603 DISLOKACIYa 12374010. Female voice on background saying: Operative duty officer...
16-03, 0836 UTC	ZhUOZ 93167 IRTYShSKIJ 80167836. Error in reading
16-03, 0755 UTC	ZhUOZ 65955 VHOZhdYeN'Ye 29475798
16-03, 0724 UTC	ZhUOZ 06368 BONNOKVIT 11415996. Strange noise over the transmission
17-03, 1529 UTC	ZhUOZ ZAUMNOST' 5430 At the same time also on 5021//5096 kHz in CW
23-03, 1305 UTC	ZhUOZ 39680 ZNAYuShchIJ 72462959 At the same time also on 5096 kHz in CW
23-03, 1248 UTC	ZhUOZ 99841 DINAS 72871361 At the same time also on 5096 kHz in CW
23-03, 1140 UTC	ZhUOZ 99382 ZOBOPLK 14960354 At the same time also on 5096 kHz in CW
23-03, 1116 UTC	ZhUOZ 46331 KAINOGON 73484797 ANGELOChYeK 01301903 At the same time also on 5096 kHz in CW
23-03, 0826 UTC	ZhUOZ 71530 YeLYeVYJ 56657157 IZNOS 46486663
23-03, 0824 UTC	ZhUOZ 31069 AZHUROLOS' 58063821

5021 kHz, 17-03, 1529 UTC, CW	ZhUOZ ZAUMNOST' 5430 //5096 kHz CW and at the same time also on 4625 kHz (S28 voice)
5096 kHz, 17-03, 1529 UTC, CW	ZhUOZ ZAUMNOST' 5430 //5021 kHz CW and at the same time also on 4625 kHz (S28 voice)
5096 kHz, 23-03, 1305 UTC, CW	ZhUOZ 39680 ZNAYuShchIJ 72462959 At the same time also on 4625 kHz (S28 voice)
5096 kHz, 23-03, 1248 UTC, CW	ZhUOZ 99841 DINAS 72871361 At the same time also on 4625 kHz (S28 voice)
5096 kHz, 23-03, 1140 UTC, CW	ZhUOZ 99382 ZOBOPLK 14960354 At the same time also on 4625 kHz (S28 voice)
5096 kHz, 23-03, 1115 UTC, CW	ZhUOZ 46331 KAINOGON 73484797 ANGELOChYeK 01301903 At the same time also on 4625 kHz (S28 voice)



## S30 - The Pip

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

5448 kHz, 01-03, 0459 UTC	78MV DEAY JH'J 12CI 79AJ ShchT3O CIHS Z7PM S7ZhG Z'1B
3756 kHz, 02-03, 1936 UTC	HCLF 61HZh ZBIL L7O5 V'Z' NLCE LI27 V2MZ SB7Z 'O6P
3756 kHz, 02-03, 1619 UTC	8S1Shch MATChOGROM 2521 Time mark after the message
5448 kHz, 02-03, 0821 UTC	8S1Shch 49852 KORMORAJ 98769414
5448 kHz, 02-03, 0753 UTC	8S1Shch 43480 ZUYeKOPLYuShch 44772512 Error in the message. Time mark after the message
5448 kHz, 02-03, 0745 UTC	8S1Shch 57748 MYaChIK 30279288 Time mark after the message
5448 kHz, 02-03, 0504 UTC	VTH3 AGDT 'U1B OSOG BO6C F56Shch 9GSA ZhBZU 4RVZ 3VS'
3756 kHz, 03-03, 1803 UTC	TUZR 5J7Shch DMC3 C2ZA INNC ShchGJP TZLM FY5E F61N 37CN
5448 kHz, 16-03, 1357 UTC	8S1Shch 46059 OBMYeRShchIK 61927664. Time mark after the message
3756 kHz, 25-03, 1607 UTC	79AJ ShchT3O CIHS Z7PM S7ZhG Z'1B CI9V ZhSK4 HZ5T 5FSShch
3756 kHz, 25-03, 0525 UTC	Y8VM 6I2Zh 8CSchJ 27Shch' N1DU 53OB 78MV DEAY JH'J 12CI
3756 kHz, 28-03, 1945 UTC	ZBIL L7O5 V'Z' NLCE LI27 V2MZ SB7Z 'O6P Y8VM 6I2Zh





## S32 - Squeaky Wheel

Mode: USB

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

3828 kHz, 02-03, 1653 UTC LANDYSh-74 KURGAN-40 NYeVKA-26 ZASLONKA-27 KARTA-11 OTPOR-89 PYeSOChNYJ-21  
ShULER-60 STUPA-32 RYezINA-38 BURKA-37 (S30 in the background)  
5473 kHz, 02-03, 1414 UTC AL'FA-45 92502 VYeTROTRUS 59043905  
3828 kHz, 20-03, 1707 UTC OTPOR-89 PYeSOChNYJ-21 ShULER-60 STUPA-32 RYezINA-38 BURKA-37  
5473 kHz, 20-03, 1522 UTC AL'FA-45 87438 ZVONOKUM 49362605  
3828 kHz, 20-03, 0353 UTC AL'FA-45 28454 MALOKOVSh 41923934  
3828 kHz, 28-03, 0359 UTC AL'FA-45 61566 IZOTYeRMA 28255100  
3828 kHz, 28-03, 0356 UTC AL'FA-45 08454 MALOKOVSh 41923934 with corrected key group

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## S4020 - Air Horn

Frequency: 4020 kHz

Mode: USB

4020 kHz, 18-03, 1649 UTC Test count

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## S4110

Frequency: 4110 kHz

Mode: USB

4110 kHz, 16-03, 1352 UTC ZALIV-52 93434 ANOMALIYa 29163736. Counts before the message  
4110 kHz, 16-03, 1326 UTC ZALIV-52 83528 TYePLOHOD 56355516. Counts before the message  
4110 kHz, 16-03, 1256 UTC ZALIV-52 ZALIV-52 96407 BILYeT 67724116. Counts before the message  
4110 kHz, 16-03, 0430 UTC PRISMA-60 clg STRUNA-45

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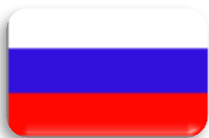
## S6930

Frequencies: 4224.5 & 6930 kHz

Mode: USB

4224 kHz, 17-03, 1555 UTC KATOK-65 12302 STARCHYeSKIJ 67316548  
4224 kHz, 23-03, 0811 UTC KATOK-65 97209 BYeNZAL'DYeGID 64652441. Signal shifted 500 kHz up  
4224 kHz, 25-03, 0815 UTC KATOK-65 63242 PALASH 18881129. Count before the message

---



V07

**18074/15874/14374 kHz, 05-03, 0100/0120/0140 UTC**

883 883 883 1 353 61 353 61

05702 00952 62622 83334 30187 74222 28700 16889 18059 617?0

66018 65202 40742 17607 47373 88787 92269 23729 27182 15939

43115 39407 83579 92246 35353 38593 49409 66226 58110 53386

87056 77177 66008 34102 98542 93426 31172 99091 63332 68803

93206 69378 27043 00631 44698 59093 00176 29706 10706 81832

33163 33485 77493 03210 99778 61592 07347 44833 04908 51979

53018

000 000

---



V24

4925 kHz, 11-03, 1431 UTC, AM

Classical music followed by a message in Korean

4925 kHz, 11-03, 1435 UTC, AM

Classical music followed by a message in Korean

Amano-san translated the log:

--- -0 gong

286 96 I-baek pal-sip-yuk Gu-sip-yuk

906 08 Gu-baek-gong-yuk Gong-pal

255 55 I-baek-o-sip-o O-sip-o

415 16 Sa-baek-sip-o Sip-yuk

134 48 Il-baek-sam-sip-sa Sa-sip-pal

108 30 Il-baek-gong-pal Sam-sip-gong

935 50 Gu-baek-sam-sip-o O-sip-gong

788 16 Chil-baek-pal-sip-pal Sip-yuk

755 86 Chil-baek-o-sip-o Pal-sip-yuk

896 90 Pal-baek-gu-sip-yuk Gu-sip-gong

274 22 I-baek-chil-sip-sa I-sip-i

Korean numbers:

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

10: sip, 100: baek.

---



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

Modes: USB and LSB voice

4186 kHz, 9-3, 1144 UTC, USB

4244 kHz, 9-3, 1144 UTC, LSB

4244 kHz, 9-3, 1158 UTC, LSB

4186 kHz, 19-3, 1705 UTC, USB

4186 kHz, 31-3, 1325 UTC, USB

4244 kHz, 31-3, 1325 UTC, LSB

---

## MORSE STATIONS

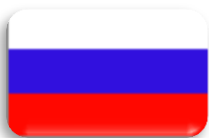


**MX**

Russian Military beacons

9363 kHz, 24-03, 1030 UTC Beacon S. Transmits for 4 mins every hour/h+30

---



**M01**

**6260 kHz, 11-03, 1502 UTC**

463 174 30 =

48269 80332 92980 43656 48011 93555 86182 61 ... 87694

655688 <sup>1)</sup>17584 98093 <sup>2)</sup> 14759 09571 47007 08585 55052 25844

43976 43976 77107 22910 87128 85332 66168 734 7334 66696

13178 20029 97060 =

174 20 000

<sup>1)</sup> No repeat and error in group

<sup>2)</sup> Repeat 93093

**5475 kHz, 16-03, 1800 UTC**

463 122 30 =

51849 96269 32731 77667 93112 14330 19154 91911 48430 67066

40934 66906 82222 77603 99914 49240 57331 77124 54555 53359

51110 12809 74082 41340 53391 03187 41091 64411 78504 41254

= 122 30 000 Lots of mistakes

**6510 kHz, 19-03, 0700 UTC**

463 703 30 =

89272 30796 62737 19488 71110 34083 81459 48645 34853 23805

85970 26988 29499 01523 36959 25841 25322 40765 13798 53091

20703 28959 25082 24790 88167 71460 78265 18089 23847 53146

= 703 30 000

**6260 kHz, 18-03, 1500 UTC**

463 910 30 =

90486 19995 12799 51748 08752 09243 93797 57148 70234 26538

84636 40535 34583 03230 79014 00079 98216 18557 84016 34146

13756 05414 26034 13073 94492 16605 21267 84525 77361 51198

= 910 30 000

**5020 kHz, 30-03, 2000 UTC**

463 297 30 = = = =

41362 64503 18340 65433 05969 74813 81147 57120 32118 78427

61145 77977 08834 46421 42960 38895 60277 42497 90036 42838

47908 58665 16896 22116 80016 17949 51746 09125 92574 39616

= = = = 297 30 000

---



M01a

**4923 kHz, 02-03, 1253 UTC**

849 849 849 840 03 840 03  
849 849 849 786 73 786 73

**3774 kHz, 02-3, 1911 UTC**

697 679 679 483 59 483 59  
333 483 51  
333  
040 04  
697 333 36  
111 000

**4976 kHz, 15-03, 1239 UTC, i.p.**

109 635 10 =  
14086 31247 13574 06186 07468 74605 09874 63219 87465 32019  
635 10 000

**3257 kHz, 28-03, 1647 UTC**

111 000

**3369 kHz, 28-03, 1708 UTC**

156 156 156 111 16 111 16  
156 156 156 110 72 110 72  
156 156 156 115 98 115 98  
050  
156 156 156 111 040 01  
156 156 156 333 114 07 114 07 114  
333 111 71 333 111 71  
111 000

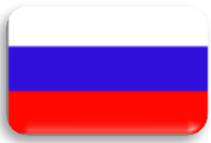
**3187 kHz, 28-03, 1740 UTC**

425 42 425 644 40 644 40  
333 04  
333 07  
111 000

**3824 kHz, 28-03, 1850 UTC**

168 168 168 914 47 914 47

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M12

**5763/5163/4463 kHz, 01-03, 2200/2220/2240 UTC**

714 714 714 1 3161 113 3161 113  
55642 33641 84085 07259 00637 19162 37107 66091 81797 90874  
29592 79483 66776 79187 51242 06601 69682 16410 37872 23928  
41431 90671 10815 72171 52672 62048 37159 76599 55578 66204  
34465 91868 26358 37853 28793 27100 70305 96518 29069 59362  
54312 41232 88831 57631 70283 64826 73167 43883 79672 82819  
65505 57688 44414 62621 86206 14357 77226 62720 93259 30070  
89857 16034 98069 93539 53990 23279 39142 58952 49088 95136  
07715 75732 97532 07576 87594 63242 43592 40186 60290 40858  
52345 40968 78770 80741 51213 13973 60429 67400 39356 05685  
43541 17357 44994 85461 89769 32029 49408 77484 53606 66814  
74715 43634 83827 59679 84744 11147 06009 95035 00673 94792  
20824 41956 11123  
000 000

**12214/10814/9214 kHz, 02-03/04-03, 1310/1330/1350 UTC**

282 282 282 1 4678 95 4678 95  
69614 05925 40159 05121 56940 04694 65796 41766 99301 17138  
25973 81535 87077 55672 24544 12206 24317 63057 20280 10032  
15071 65778 56976 18526 14042 71178 97862 79147 72363 12978  
23776 96497 10049 62188 83836 95334 33926 40702 51678 93535  
35438 80284 26306 40722 75469 39400 39841 87905 91857 08924  
05149 17177 95587 16832 27087 04854 82761 03217 68674 43906  
27868 64433 82088 66034 02013 55410 15449 99473 07578 44468  
39530 08491 83644 90455 28323 82744 46114 52971 83480 72932  
59655 56714 65731 35928 62422 33370 34736 63736 51289 03598  
27060 29354 71011 39472 23561  
000 000

**8158/9258/10658 kHz, 04-03, 0600/0620/0640 UTC**

126 126 126 1 3161 113 3161 113  
55642 33641 84085 07259 00637 19162 37107 66091 81797 90874  
29592 79483 66776 79187 51242 06601 69682 16410 37872 23928  
41431 90671 10815 72171 52672 62048 37159 76599 55578 66204  
34465 91868 26358 37853 28793 27100 70305 96518 29069 59362  
54312 41232 88831 57631 70283 64826 73167 43883 79672 82819  
65505 57688 44414 62621 86206 14357 77226 62720 93259 30070  
89857 16034 98069 93539 53990 23279 39142 58952 49088 95136  
07715 75732 97532 07576 87594 63242 43592 40186 60290 40858  
52345 40968 78770 80741 51213 13973 60429 67400 39356 05685  
43541 17357 44994 85461 89769 32029 49408 77484 53606 66814  
74715 43634 83827 59679 84744 11147 06009 95035 00673 94792  
20824 41956 11123  
000 000

**14769/16269/18169 kHz, 05-03, 1010/1030/1050 UTC**

721 721 721 1 7244 71 7244 71  
29650 34490 85710 57757 03417 69154 34943 92454 71017 24275  
24259 41096 15778 25872 45168 30044 86292 45853 34720 54815  
51778 00595 89082 50164 72461 19243 29983 97867 49057 65749  
58295 77679 36887 41179 61974 64662 22940 67338 65380 70924  
32479 84225 99962 98331 10280 04631 84243 01996 74141 37639  
64341 86111 12768 36224 68707 10410 86599 15522 86257 20120  
95975 71107 83793 05520 75403 78656 08470 67925 34594 66596  
85268 000 000

**16276/14876/13376 kHz, 06-03/08-03, 1400/1420/1440 UTC**

283 283 283 1 6475 79 6475 79  
89408 74375 31908 37021 88090 39887 77948 01372 96347 21039  
16642 38441 43115 88832 41514 64530 70379 64159 60002 00967  
29150 63600 80035 74299 50189 20852 37336 33210 29758 23304  
00112 05444 84047 51308 34064 03806 18165 62413 24949 55977  
67328 76485 91578 49750 50166 38423 41102 55261 59443 51906  
24367 08362 83533 23160 54849 76341 53601 17525 32732 18280  
66525 48380 24140 73079 68270 39194 11596 75787 99030 24067  
62779 68771 54458 02011 05143 26368 36270 69714 95151  
000 000

**13386/12189/11491 kHz, 09-03, 1300/1320/1340 UTC**

725 725 725 1 915 71 915 71  
59190 56591 53418 19648 11342 69262 56946 75738 14006 33436  
04906 92933 28341 51536 94588 57391 97380 17427 79325 18840  
30029 40147 71458 01590 14240 42594 03189 70790 31977 96037  
43844 70567 09283 39855 38079 87540 56841 54409 23148 12210  
31669 30086 17662 91525 76891 08411 95881 32674 64139 55719  
72503 33609 58937 65277 43595 35127 18226 51690 93355 42703  
77499 71568 25156 52789 24621 67424 73779 07563 64215 15066  
98823 000 000

**Unscheduled M12: 9317 kHz, 14-03, 0700 UTC. Deep fading.**

135 135 135 1 2429 80 2429 80  
08837 82602 78783 49725 27408 73321 71409 33996 38561 58613  
07481 40769 07640 47943 58513 26223 02390 82860 99592 55096  
66974 11963 24589 07133 30273 30192 25066 80681 28786 14894  
271x9 575xx 31015 80779 8xx68 x7101 442x2 38579 62xx1 7x916  
73320 18139 91908 71463 22505 04653 04997 77557 478xx 21191  
42762 216x6 35312 72632 08578 28865 76915 27977 02680 00910  
6x777 55x90 89438 246x0 32100 58323 78865 20519 85500 70400  
96013 60321 51086 848xx 82052 xxx61 17047 97497 77597 88419  
000 000

**5763/5163/4463 kHz, 15-03, 2200/2220/2240 UTC**

714 714 714 1 8303 93 8303 93  
17290 41218 93931 87285 77885 32228 35340 41401 74934 34292  
22228 77722 40018 49022 32486 72250 49467 45443 73145 41786  
33550 64796 60927 63800 80785 94113 02902 45805 88775 57433  
59805 80244 78219 35198 37421 23199 29262 02744 05688 41398  
49983 97112 91223 54001 86819 05344 75436 00434 05158 04981  
85846 07922 31691 82370 31552 03108 57586 15460 07554 94744  
90397 38106 01194 37770 95658 78957 50970 57789 11175 61231  
82465 94545 28178 15837 34744 33697 10404 20013 11572 66310  
12570 36839 68852 72618 65096 57279 49864 71103 77363 46281  
96564 81454 94035 000 000

**14769/16269/18169 kHz, 16-03/19-03, 1010/1030/1050 UTC**

721 721 721 1 9043 103 9043 103  
25254 80037 35191 44404 15781 38159 27515 36458 23285 52005  
38164 00462 60881 26925 14278 12407 58401 93938 21094 43184  
32152 71023 92456 50131 05304 30472 50708 90746 71071 06013  
37499 04402 43220 86910 21893 54332 97372 84031 03841 44697  
67509 55594 89538 42144 19082 45846 46980 57498 34129 56623  
95559 88034 90559 98116 12576 54281 80844 64234 48059 01293  
63505 52848 26910 88008 51329 12858 36901 00305 88004 93822  
90992 92911 35356 54552 95221 83268 86308 88557 90886 00733  
48987 01641 73550 90652 06940 17184 02401 64118 23651 27952  
65464 30468 73595 97009 49716 93516 53176 19600 46740 43555  
55882 97385 38904  
000 000

**12214/10814/9214 kHz, 16-03/18-03, 1310/1330/1350 UTC**

282 282 282 1 3660 81 3660 81  
81307 78908 18223 48475 11219 05260 02321 73567 68200 50063  
92708 70881 51133 96361 59300 85250 25383 58087 03690 41641  
95040 36989 65397 19301 84403 51599 82494 74413 51358 96662  
29949 17277 99135 95557 61177 44217 43080 08993 06256 58086  
65231 01689 00199 97718 24954 02976 52261 63224 43579 26137  
13305 27054 01115 67645 84322 22417 74832 83637 20247 74877  
98167 41024 56983 75498 69288 98417 86615 08216 21425 27326  
60571 55266 03759 69046 82006 80795 20307 41082 04397 71559  
90690  
000 000

**8158/9258/10658 kHz, 18-03, 0600/0620/0640 UTC**

126 126 126 1 8303 93 8303 93  
17290 41218 93931 87285 77885 32228 35340 41401 74934 34292  
22228 77722 40018 49022 32486 72250 49467 45443 73145 41786  
33550 64796 60927 63800 80785 94113 02902 45805 88775 57433  
59805 80244 78219 35198 37421 23199 29262 02744 05688 41398  
49983 97112 91223 54001 86819 05344 75436 00434 05158 04981  
85846 07922 31691 82370 31552 03108 57586 15460 07554 94744  
90397 38106 01194 37770 95658 78957 50970 57789 11175 61231  
82465 94545 28178 15837 34744 33697 10404 20013 11572 66310  
12570 36839 68852 72618 65096 57279 49864 71103 77363 46281  
96564 81454 94035  
000 000

**16276/14876/13376 kHz, 20-03/22-03, 1400/1420/1440 UTC**

283 283 283 1 2914 103 2914 103  
85498 55090 77981 48522 76515 23398 30726 37317 74318 91697  
07126 59643 08792 91208 51221 85072 66367 70832 89739 70054  
10843 28389 41431 90004 52448 72109 76150 73046 50809 82989  
31799 80417 57084 96359 08963 73776 17364 22086 53385 59667  
38957 90854 50025 56487 95289 38294 34860 06988 56864 62095  
47918 53022 28083 01682 71706 00446 61500 76893 80497 06772  
70301 37670 63596 83056 99556 45571 98466 34310 87750 70760  
94433 01413 51325 35127 28417 93285 89773 44510 71473 02808  
76575 24015 25349 56638 16515 28182 58574 69126 40996 47509  
37436 12011 88281 67056 10811 95403 18464 29510 81422 58278  
75613 00859 13612  
000 000

**5763/5163/4463 kHz, 29-03, 2200/2220/2240 UTC**

714 714 714 1 055 75 055 75

43563 78568 53593 60917 07236 15794 03280 50218 58056 47014  
43741 60382 28839 39893 99064 86569 31929 54852 29273 14593  
81342 19107 20781 14878 48598 44218 48786 89201 58279 36820  
38766 82992 58509 05589 05956 07255 31609 12825 21139 69338  
87586 63320 63477 80702 81856 48861 68237 32807 68597 01034  
57672 48867 11089 96640 08194 08684 92296 15788 76131 35724  
38167 40193 81533 86533 11300 33648 83332 67942 50542 34993  
07281 88641 84156 97239 11151  
000 000

**14769/16269/18169 kHz, 30-03, 1010/1030/1050 UTC**

721 721 721 1 3515 91 3515 91

41705 56546 11102 21353 82745 53332 94070 82017 58478 37527  
81156 36214 54053 86028 06316 42605 80517 89258 59933 69105  
80233 37993 27386 24652 65429 77991 82511 81560 91237 21231  
12285 88231 30711 57964 02114 74893 18034 51323 37172 55652  
65525 97263 48550 00223 24305 19965 11098 37025 50505 33645  
01515 29633 32081 53877 60713 70046 91704 99640 18111 85652  
95624 09393 87298 21461 25222 36663 83475 85117 55300 77565  
95946 68865 30809 53001 87078 06129 16852 58145 30490 43357  
37486 22409 64949 21892 61803 48744 29355 14179 86763 08294  
98946  
000 000

**12214/10814/9214 kHz, 30-03, 1310/1330/1350 UTC**

282 282 282 1 1017 73 1017 73

13904 97074 25443 26840 35468 89373 42498 63104 20229 06893  
00237 92763 36589 90550 56733 14665 18356 56188 70584 52717  
94628 33262 95747 64488 29839 55195 12241 63382 30181 80302  
58392 66961 59042 77302 06615 92166 80403 75386 45274 21660  
07999 90279 30150 66146 80137 81062 66474 09838 12597 97100  
46634 30752 94216 78075 05690 24503 53229 99619 05962 62237  
99199 98411 44578 21448 14412 75985 00551 32151 50530 61532  
71575 85000 45025  
000 000



**M14**

**8167/9463 kHz, 02-03, 1012/1033 UTC I,p,**

058 (R) 624 624 31 31 =

16927 74613 80623 18316 68748 74523 15350 23596 32192 71014  
64376 52646 52410 23803 71079 21353 95890 06261 53056 72132  
05750 47479 70301 86486 58727 46138 87524 07423 53427 49343  
84154  
624 624 31 31 00000



**5430/5560 kHz, 04-03, 0800/0900 UTC**

171 (R) 518 518 86 86  
32498 53900 12865 21208 51810 31717 42954 41665 86113 42421  
98900 84532 42814 26690 00343 51926 33664 76712 81624 58500  
54119 10200 37901 42338 15271 63498 61772 54718 32991 84721  
36519 48264 33876 29237 50630 53732 11737 34890 24351 27136  
54373 29890 80740 30012 45123 54819 90601 25934 27579 41734  
53890 72189 41612 91078 01276 53890 03048 42518 53900 02561  
53718 59341 47816 89162 73349 64172 45161 83901 01561 73282  
52400 71098 58512 63901 02074 64570 29078 80829 52727 86241  
53712 63490 82310 20943 57286 61220  
518 518 86 86 00000

**5240 kHz, 05-03, 2300 UTC / 5825 kHz, 06-03, 0000 UTC**

376 (R) 518 518 86 86  
32498 53900 12865 21208 51810 31717 42954 41665 86113 42421  
98900 84532 42814 26690 00343 51926 33664 76712 81624 58500  
54119 10200 37901 42338 15271 63498 61772 54718 32991 84721  
36519 48264 33876 29237 50630 53732 11737 34890 24351 27136  
54373 29890 80740 30012 45123 54819 90601 25934 27579 41734  
53890 72189 41612 91078 01276 53890 03048 42518 53900 02561  
53718 59341 47816 89162 73349 64172 45161 83901 01561 73282  
52400 71098 58512 63901 02074 64570 29078 80829 52727 86241  
53712 63490 82310 20943 57286 61220  
518 518 86 86 00000

**5340 kHz, 11-03, 0759 UTC. Starts as null message, then into 59 groups message**

171 171 171 00000 (stops)  
184 59  
13253 26472 48950 52141 08745 63532 21745 53413 96423 84276  
24132 68321 07621 31242 74629 73241 96313 45261 76498 51823  
23456 73192 42613 53804 61235 62897 41324 89376 53421 06213  
01834 63505 32676 38101 78365 23609 56782 25301 79178 54305  
41326 98635 27467 08531 34245 87625 45631 36782 25314 10250  
73414 53212 07642 46263 34127 09751 49653 12311 84502  
184 59 00000

**5240 kHz, 12-03, 2300 UTC / 5824 kHz, 13-03, 0000 UTC**

376 (R4) 490 91 490 91  
52378 90126 42876 19097 06132 72691 48071 25375 61608 72421  
83606 51026 83528 91905 82231 63881 92244 05190 63217 66747  
98414 20204 53261 74194 52781 84390 71515 45020 75229 83129  
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  
73630 19372 53610 87031 52890 63781 32084 52100 00340 62721  
52400 62826 61120 54622 71060 64991 24051 00647 73809 62841  
32465  
490 91 490 91 00000

**5463 kHz, 15-03/29-03, 1920 UTC**

537 (R) 518 518 86 86  
32498 53900 12865 21208 51810 31717 42954 41665 86113 42421  
98900 84532 42814 26690 00343 51926 33664 76712 81624 58500  
54119 10200 37901 42338 15271 63498 61772 54718 32991 84721  
36519 48264 33876 29237 50630 53732 11737 34890 24351 27136  
54373 29890 80740 30012 45123 54819 90601 25934 27579 41734  
53890 72189 41612 91078 01276 53890 03048 42518 53900 02561  
53718 59341 47816 89162 73349 64172 45161 83901 01561 73282  
52400 71098 58512 63901 02074 64570 29078 80829 52727 86241  
53712 63490 82310 20943 57286 61220  
518 518 86 86 00000

**5430/5560 kHz, 18-03, 0800/0900 UTC**

171 184 184 59 59  
13253 26472 48950 52141 08745 63532 21745 53413 96423 84276  
24132 68321 07621 31242 74629 73241 96313 45261 76498 51823  
23456 73192 42613 53804 61235 62897 41324 89376 53421 06213  
01834 63505 32676 38101 78365 23609 56782 25301 79178 54305  
41326 98635 27467 08531 34245 87625 45631 36782 25314 10250  
73414 53212 07642 46263 34127 09751 49653 12311 84502  
184 184 59 59 00000

**10423/10212 kHz 1130/1230 UTC**

058 974 974 31 31 =  
75569 20761 41960 07584 75942 54528 34269 06309 54612 68705  
87339 72714 42594 41793 85735 64943 82233 18682 94811 89240  
77092 53890 45624 68235 52108 06058 76176 90956 22431 75909  
89968  
974 974 31 31 00000

**8096 kHz, 21-03, 0601 UTC, i.p.**

ld??? 124 124 89 89  
xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx 23784 34895 12905  
34785 56347 89340 90348 08906 34675 78456 89340 23905 34906  
67458 89457 34885\* 67895 90678 34895 67905 90345 12906 34907  
23895 34896 12905 89340 23904 45673 89450 90458 23895 90458  
23895 12895 56784 90457 90348 45893 90457 23905 67458 90458  
45783 45893 90457 34896 56784 23674 34895 89456 89340  
124 124 89 89 00000  
\* 2nd Repeat 34785

**5420/5560 kHz, 25-03, 0800/0900 UTC**

171 490 91  
52378 90126 42876 19097 06132 72691 48071 25375 61608 72421  
83606 51026 83528 91905 82231 63881 92244 05190 63217 66747  
98414 20204 53261 74194 52781 84390 71515 45020 75229 83129  
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  
73630 19372 53610 87031 52890 63781 32084 52100 00340 62721  
52400 62826 61120 54622 71060 64991 24051 00647 73809 62841  
32465  
490 91 00000

5560 kHz, 25-03, 0826 UTC Sends several test groups

5560 kHz, 25-03, 0829 UTC Sends several test groups: 07246 56327 55972 98150 11568 93858



## M21

*Russian Air Defence Forces*

*Во́йска ПВО Voyska PVO*

3314 kHz, 01-03, 1552 UTC  
3254.5 kHz, 01-03, 1726 UTC

=991852??0????? =991853??0????? =991854??0????? =991855??0?????  
009941998046626 517 99419100511650 9941998542928 00994399804671928517  
99439160511650 19099431930 9941998549230 3389941998542932  
3389941998542136

4391 kHz, 02-03, 1621 UTC  
3279.5 kHz, 06-03, 0919 UTC  
7450 kHz, 07-03, 0516 UTC

1236293984420 =1236293984420 =3130091160630 =099922??0????? =12300293984921  
=991218??0????? =991219??0????? =991220??0????? =991221??0????? =991222??0?????  
=10001826437716 =10002826733716 =0000173300903 =10002702300900  
=10003826733417 =10004826409818 =2000372300900 =20004703300900  
=10001826431218

6830.5 kHz, 08-03, 0844 UTC  
7450 kHz, 09-03, 0515 UTC

=99?1144?9 ???? =99?114?9????? =99?1146?9?????  
=10002826734115 =10003826634315 =10004826406115 =10001826437716  
=10002826733716 =20001702300903 =20002702300900 =10003826733417  
=10004826409817 =20003701300900 =20004701300900 =10001826431218

6830.5 kHz, 11-03, 0720 UTC  
5381.5 kHz, 12-03, 0746 UTC  
3996 kHz, 18-03, 1856 UTC  
5323 kHz, 14-03, 0658 UTC  
3254.5 kHz, 27-03, 1718 UTC  
3367.5 kHz, 28-03, 0458 UTC

=99?1020?9????? =99?1021?9????? =99?1022?9?????  
=991046??0????? =991047??0????? =991048??0?????  
=99?2156??9??? =99?2157??9????? =99?2158??9?????  
=990958??0????? =990959??0????? =991000??0?????  
9927998369116 9927998363320  
009651868 09479100746 647861599948 9649861597748 4968861595448 9653868694448  
9951868095648



## M23

5417 kHz, 01-03, 1835 UTC: 276 (R9)



## M41

*Russian Air Defence Forces*

*Во́йска ПВО Voyska PVO*

2071.5 kHz, 01-03, 1630 UTC

BTU8 BTU8 AR  
722194 95049 9897 6139 1521 6018 21 722194 95049 9897 6139 1521 6018 21 K



## M89 - Chinese military

### **6771 kHz, 06-03, 0813 UTC**

VVV F4U4 DE AWTO K  
AWTO DE F4U4 K  
F4U4 DE AWTO QSA 4 QSA ? K  
AWTO DE F4U4 QSA 3 K  
F4U4 DE AWTO OK HR NR 1104 K  
AWTO DE F4U4 OK HR NR 1386 K  
F4U4 DE AWTO R R NIL SK  
AWTO DE F4U4 NIL SK

VVV UPF5 DE AWTO K  
AWTO DE UPF5 K  
UPF5 DE AWTO QSA 3 K  
AWTO DE UPF5 QSA 1 K  
UPF5 DE AWTO R R HR NR 1104 K  
AWTO DE UPF5 OK HR NR 110 K  
UPF5 DE AWTO R R NIL SK  
AWTO DE UPF5 NIL SK

VVV LXUW DE AKTO K  
AWTO DE LXUW K  
QSA 2 K  
LXUW DE AKTO HR NR 1104 K  
AWTO DE LXUW OK HR NR ....  
LXUW DE AKTO R R OK NIL SK  
AWTO DE LXUW OK NIL SK

### **3330 kHz, 06-03, 1307-1344 UTC**

ZYN9 DE UVH3 K  
ZYN9 DE UVH3 QSA 2 HR NR 8921 K  
ZNY9 DE UVH3 AS 2  
VV XRFG DE UVH3 K  
XRFG DE UVH3 QSA 2 HR NR 8921 K  
XRFG DE UVH3 AS 2  
VV HYVG DE UVH3 K  
HYVG DE UVH3 QSA 3 HR NR 8921 K  
HYVG DE UVH3 AS 2  
VV RF6C DE UVH3 K  
RF6C DE UVH3 QSA 2 HR NR 8921 K  
RF6C DE UVH3 AS 2  
VV YY5B DE UVH3 K  
YY5B DE UVH3 QSA 2 HR NR 8921 K  
YY5B DE UVH3 AS 2  
VV 6XWQ DE UVH3 K  
6XWQ DE UVH3 QSA 2 HR NR 8921 K  
6XWQ DE UVH3 AS 2  
HR GA NR 5687/2115 RMKS CQ = VCN/8JT K  
HR MSG NR 5688 CK 488 65 03062115 RMKS CQ =  
74AN 4TSA DN7D 5N4T NU63 A654 NUDU 4A6N ... / ... AR  
HR GA NR 5689 EX2144 RMKS CQ = DT/1GF AR  
HR MSG GA NR 5890 CK 200 65 03 06 2144 RMKS CQ =  
ZGUI YAJG EIQP GIZU UPGV JFYQ BTKE XRTW PUXH DOVW FWPM LQCO TMJY AR

**4051 kHz, 06-03, 2001 UTC**

B4MQ DE OOTY K

DGS3 DE OOTY K

CJ2X DE OOTY = 7222 0849 757594 EEEE 3295 8260 FM 38 = 3 RM K

(long zero's in the callsign)

**4051 kHz, 07-03, 2002 UTC**

B4MQ DE DHV2 K

B4MQ DE DHV2 K

DGS3 DHV2 K

DHO4 DE DHV2 K

CJ2X DE DHV2 K

**3333 kHz, 07-03, 1521-1542 UTC**

XHL2 DE NUGH K

XHL2 DE NUGH QSA 2 QSA ? K

XHL2 DE NUGH IEC = HJRE AR K

XHL2 DE NUGH MSG NR 2002 CK79 ..03 07 2.. RMKS CQ = 3A5U ... AR K

XHL2 DE NUGH RPT K

XHL2 DE NUGH RPT GROUPS

XHL2 DE NUGH QSW ? K

XHL2 DE NUGH R

VVV DF3G DE NUGH K

CHG7 DE UGHB K

DF3G DE NUGH QSW ? K

CHG7 DE UGHB QSL 33 AR K

R

VV DE CDG7 EEEEE

VV CDG7 DE RTYT AR

**3171 kHz, 07-03, 1611-1710 UTC**

SEW4 DE 6YRT QSA 2 K

SEW4 DE 6YRT QSA 3 K

SEW4 DE 6YRT NIL SK

SEW4 DE 6YRT GB CL

JKY5 KDE 6YRT QSA 2 QSA ? K

JKY5 KDE 6YRT NIL SK

JKY5 KDE 6YRT GB

6YRT MSG NR 133 ... CK .... 08 03 0... RMKS CQ = ...AR K

Y5EK (repeating message) NIL SK GB

D5WS (repeating message) NIL SK GB

5IUI (repeating message) NIL SK GB

IU5T (repeating message) NIL SK GB

ADS5 (repeating message) NIL SK GB

SEWU (repeating message) NIL SK GB

JKY5 (repeating message) NIL SK GB

**3212 kHz, 07-03, 1912-1923 UTC**

TWD DE P77 QSA ? K

P77 DE TWD QSA 3 9646 K

P77 9435 K

DE 3E9 QSA ?

3E9 DE TWD QSA 3 ? ? 4015 4015 K

TWD DE 3E9 AS AS

DE PBF QSA ? K

PBF DE TWD QSA ?

DE PBF PBF QSA 3 QSA ? K

VVV PBF DE TWD QSA 3 ? ?

DE PBF QSA ? ? K

DE 2E9 QSA 5 ? ? 8720 87K  
DE PBF QSA ? K  
DE 2E9 QSA 5 3087 3087 K  
DE TWD QSA 4 7330 K  
DE 2E9 3720 3720 K  
TWD OK AS AS  
DE PBF QSA ? K  
TWD DE PBF QSA 5 ? K  
PBF DE TWD QSA 3 ? ? 3402 3402 K  
PBF 8730 8730 K  
TWD OK AS

Notes:

Simplex network

Groups of numbers after each QSA exchange: probably an authentication request ???

**8848 kHz, 08-03, 0651 UTC, i.p.**

HR MSG GA  
NR 5276 CK 35 49 1117 1600 RMKS 3671 TO 3984 K  
96274 43525 ... AR  
NR 5141 CK35 20 8 1110 91100 RMKS 2935 TO 3373 K =  
8376 0862 = =  
9385 9627 2564 3825 4810 8100 81  
NR 5140 CK 20 81 1109 1100 RMKS 4256 TO 4673 K =  
2336 7320 7394 1426 7692 1649 4758 7028 8  
HR MSG NR 5277 CK 35 49 1117 1610 RMKS 3671 TO 3984 K

**8477 kHz, 08-03, 0800 UTC**

YDIY DE JJCE K

**8475 kHz, 08-03, 0807 UTC**

YDIY DE JJCE K  
YDIY DE JJCE QSA 3 QTC K  
YDIY DE JJCE N  
R 8013 CK 50 22 03 08 1634 =  
N37T TM3U 3DDU ...

**5081 kHz, 08-03, 1053 UTC**

VV WKY9 VV WKY9 VV WKY9 DE DOG5 DOG5 V  
VV HR U GC. WM VV HR U GICO.. =  
472. 1 9 30/.L / 36 AR =  
4727/1930/NL.4/43. AR

**8038 kHz, 08-03, 1003 UTC**

RMKS 1173 TO 732. K  
K 4 C E  
R GA = =  
A5UD (Cont'd)  
RPT K  
RPT 4  
MSG NR 09 CK 221 55 0308 1640 RMKS 1173 TO 7323 K  
R 01W GA = =  
A5UD 6D44 (Cont'd)

**4051 kHz, 08-03, 2000 UTC**

VV B4MQ DE 00TY K  
VV DGS3 DE 00TY K  
VV DGS3 DE 00TY K  
VV DHO4 DE 00TY K  
00TY R QSA 2QSA ? K  
00TY R AS

VV CJ2X DE 00TY K  
00TY R QSA 1 QSA ? K  
00TY BOZ QSY TO 24 BOZ TO 24 K

**5081 kHz, 09-03, 1105 UTC, i.p.**

R 4W = DN4T AR K  
AGN K  
R AGN 11W = 4N5N AR K  
R U MSG GA K  
R GA K  
R GA K  
R AGN 35W K  
AGN K  
R AGN K  
AGN K  
R QSL  
SK K

**6802 kHz, 09-03, 1002 UTC, i.p.**

VVV DZKL (x3) DE PFTZ(x3) = YR NR 037G QSL TIME 1759 AR  
AR  
VVV KYNC (x3) DE PFTZ (x3) = YR NR 027G QSL TIME 1736 AR

**6689 kHz, 09-03, 1011 UTC, i.p.**

R AS AS  
VV FG5. ... K  
VV FG55 DE ADF2 K  
R HR QSA 2 K  
R IEC = 2195 AR K (Exercise related)  
R HR NR 57 K  
R AS  
VV SGY2 DE ADF2 K  
VV SGY2 DE ADF2 K  
VV SGY2 DE ADF2 K  
MSH HR MSG GA HR CQ GA HR CQ GA HR CQ GA  
HR MSG GA HR MSG GA MSG NR 143/CCK CK 55 49 0309 171 CQ  
MSG NR 143/CCK CK 55 49 0309 1800 RMKS CQ  
MSG NR 143/CCK 55 AGN  
MSG NR 143/CCK CK 55 49 0309 1800 RMKS CQ = = =  
N74U U3TA 476N N437 UT3U T.6U N5AT 4AN4 TAN7 TTUU (Cont 'd) AR (Message format indicates QV5B family)  
VV DFJG DE ADF2 K  
R 15W BT A.5U AR K  
R 31W BT DD76 AR K  
R U QSY TO NR 01 K  
VA  
VV R3FD DE ADF2 K  
R U QSY TO NR 02 K  
VV AAQQ QSY TO NR 02 K  
VA  
VV DTEJ DE ADF2 K  
R U QSY TO NR 0 AGN QSY TO NR 13 K  
VV FG55 DE ADF2 K  
R U QSY TO 09 U QSY TO NR 09 K  
VA

**6773 kHz, 10-03, 1030 UTC, i.p.**

RPT  
R HR WK NR NR 110 K  
R Q 2K DK  
R RPT 1.4GW K

R RPT 2P 31W K  
 R QSL 1832 K  
 R HR WK NR 105 K  
 R R NW EEEE R NW V3KK  
 R QSL 1833 K K  
 R HR WK NR 423 K K  
 10 EEEE 1P 17W K  
 R RPT 2. 26W K  
 RPT 2P 35W TO 36W K  
 RPT 2P 92W K  
 QSL 1836 K  
 WK NR 203 K  
 XX 13 K  
 QSL 1837 K  
 WK NR 3... K (Appears to be outstations working control)  
 SK SK

**6782 kHz, 10-03, 1016 UTC, i.p.**

A3D6 7ATU N53T ... AR  
 R MSG GA K  
 R QSL 1823 QSL 1823 K  
 R NR 3589 CK 100 58 0319 18 EEEEE  
 MSG NR 3589 CK 100 58 0310 1750 RMKS 614947 TO 6141940 =  
 A5.U NUD3 TN75 (Cont'd)

**4178 kHz, 12-03, 1901-1932 UTC, i.p.**

R QSA 2 QSA ? K  
 R IEC = 2149 AR K  
 R  
 FJUX8 DE I3LX K  
 VD6DL DE I3LX K  
 VX1OS DE I3LO K  
 VJUO8 DE I3LO K  
 VV H6DL DE I3LO K  
 VX1OS DE I3LO K  
 VV G9KG DE I3LX K  
 G9KG DE I3LX R R H QSA 2 QSA ? K  
 G9KG DE I3LX R IEX = 3045 AR K  
 G9KG DE I3LX HR ÉGA K  
 G9KG DE I3LX É NR 3837/EX 3310 RMKS CQ ÉNR 387/EX 3310 RMKS CQ K  
 G9KG DE I3LX QSL 0311 K  
 G9KG DE I3LX GA K  
 I3LX HR NR 3838 CK 230 46 03 13 0000 RMKS CQ K  
 NW = 63AN U673 6A5K NDT7 ... / ...  
 VVV G9KF DE I3LO K  
 VVV G9KF DE I3LO K  
 I3LO RCKHW K  
 G9KF DE I3LO RPT 19 (REPAT GROUPS)  
 U6ET DE I3LO K - (REPAT GROUPS)  
 VB3GV DE I3LO - (REPAT GROUPS)  
 KPUT8C DE I3LO K - (REPAT GROUPS)  
 VVV VJ EEEEE  
 VJUO8 DE I3LO K  
 VV H6DL DE I3LO K  
 VX1OH DE I3LO K



**3397 kHz, 14-03, 1759 UTC, i.p. (QSO on 3356 kHz)**

7U3N 67AD 7A5T TDA6 563T 74UT ...  
III K  
R R = = A56U NUD3 TND7 5NU3 (Cont'd)  
AR K K  
R R  
NR GA  
27 CK 211 68 0415 0120 RMKS 6919 TO 0649 K (3356 kHz)  
R GA //A  
R HR GA 1P 01W GA = = //B  
464T 36AN 6DTU A5U4 N47N ATT3 6734 3563 T3ND TTAD DAAT (Cont'd)  
(Repeated groups after 50 groups)  
R 2P 101W = (Cont'd sending message)  
AR K//B (Repeats groups)  
RR QSL 0218 K //A  
RR SR MSG GA  
MSG NR 086 CK 211 6E RMKS 06SE RMKS 1649 TO 6919 K K  
MSG NR 086 CK 211 68 0315 0220 RMKS 0649 TO 6919 K K  
R R = =  
A3NT UD45 A7UN 543D 46DA 75TA N7T4 4DAT 4U3D AN7U CY K  
= =  
ND56 AUN3 7435 D35N (Cont'd) AR  
R QSL 0229 K //B  
HR HR WK NR 42 K  
NR 401 K //A  
HR P EEEE HR W NR 401 K //A  
HR NIL SK VA//B  
SK //A

**3995 kHz, 14-03, 1519 UTC, i.p.**

F NR 4923/EX 2318 RMKS CQ =  
ABCD/E1F2/GHBA AR  
H7ZS K VV  
H7ZS K  
VV H7ZS K  
VV 804 H7ZS K  
V 8ZFH K  
V SY6X SY6X K  
R R K = = GHBA GHBA K  
= = GHBA GHBA K  
R R  
VV H2ZS H2ZS K  
8ZFH 8ZFH K  
V 8ZFH K  
MSG GA MSG AGA MSG GA MSG  
NR 4925 CK 71 61 0314 2310 RMKS CQ =  
5AD4 75U3 43AT A47D 537U T7A4 A7UN U57D 4UAT 3N7A 5AUD (Cont'd) AR  
AR 9T  
VV H7..  
HY6X HY6X K  
HY6X HY6X K  
VV H7ZS K  
V 8ZFH K  
V SK  
R  
V SY6X K  
R R MSG NR 4925 CK 71 61 0314 2310 N EEEEE RMKS CQ RMKS CQ = = =  
5AD4 75U3 43AT A47D 537U T7A4 A7UN U57D (Cont'd) AR AR  
V H7ZS  
V XY6X K

V 8ZFH K  
V V SY6X SY6X K  
V SY6X SY6X SY6X K K K K K K K K K K

**5566 kHz, 15-03, 1221 UTC, i.p.**

6UNN A554 5A7U 75TA (Cont'd)  
III = TTAN 5774 NNNU 73UA (Cont'd)  
III = 34UN T5U6 4744 (Cont'd)  
III = 6D3N AR

**5843 kHz, 15-03, 1207 UTC, i.p.**

4UND 67A4 D554 D6U4 NUUT (Cont'd) AR K  
BJNA K  
AGN AGN K  
QSL K  
SK  
WL8W K  
SK  
NI4Q K  
SK  
FN5D K  
U QSY TO NR 09 U QSY TO NR 09 U QSY TO NR 09 K K K  
DE K K K K  
U QSY TO NR 18 U QSY TO NR 18 K K K  
U QSY TO NR 07 K  
K K  
DE K HR QSA 2 K  
IEC = 2603 AR K  
HR NR 9. K  
AGN K  
A GN K  
R QSL ? K  
AGN K  
U F QSY AGN U QSK AGN U QSK AGN U QSY TO NR 12 K  
QSL ? K  
U QSY TO NR 15 NR 15 K  
AGN K  
AGN K  
SK GB

**5555 kHz, 16-03, 1117 UTC, i.p.**

RMKS 8573 TO 8576 K  
.. GA (Other station also on this frequency but mostly unreadable)  
R = .43A U4TT 3N45 (Cont'd) AR K  
R QSL .... K  
R GA K  
NR .. (Cont'd)  
R GA K  
AR K  
R QSL 1936 K  
OK NIL ....  
7G GA  
NR 0093 EEEEE  
NR 0092 CK 91 56 0316 1937 RMKS 8573 TO 8576 K  
R GA  
= = = 3UT7 T4UA DT.3 (Cont'd)

**5566 kHz, 16-03, 1037 UTC, i.p.**

T7D3 W

OK GA (Other station also on this frequency)

3P 1W = N54A T.3U 5T3A 4N3A (Cont'd)

16W

16W 7U7T W (Repeats groups)

OK GA

= 4P (Cont'd)

3W

3W = 45.. W (Repeats groups)

OK GA

5P 1W = A67D NTU4 (Cont'd) AR W

R R

NR 1234/EX CK 500 77 0316 1815 RMKS 560 TO DKT III WZ K

HR QSL K K 1911 K K

W OK...

W O NR ISK 1116 K K

OK HR WK NR .K ..

?

HR WK NR IIS

?

HW WK NR IS K K 1131 K K

OK TKS U QSO K TK U C

?

OK TKS U GB

**4051 kHz, 17-03, 1443 UTC, i.p.**

3UU3 A4A5 A5A4 D33N DU3T (Cont'd) AR

V MO. RPT 60W K (Other station also on this frequency)

RPT 60W K

RPT N IOW K

R RPT 200W K

R AS

QSL ? K

R 6VMQ RPT 200W K

R QSL ? K

RPT K

R N EEE O4 QSL ? K

R CJ2X QSL ? K

R SK

**5018 kHz, 17-03, 1217 UTC, i.p.**

7T5D 55D6

? (Other station also on this frequency)

5D6 633N 5DDA NN45 73? 756T (Cont'd) AR K

R R

R R OK

**5555 kHz, 18-03, 1609 UTC, i.p.**

3N7D 7D5T N3TA D6UT DTNT D57D (Cont'd) AR

7G GA

NR 0091

7G GA

NR 0091 CK E E E E

7G GA

NR 0091 CK 91 56 04A6 A117 RMKS 8573 TO 1066 EEEEE = =

643A = =

643A U4TA 3N45 (Cont'd) =

**5656 kHz, 18-03, 1015 UTC, i.p.**

R HR MSG GA K  
MSG GA  
NR NR 4018 CK 200 49 0318 1800 RMKS CQ K  
R MSG GA 1P GA = =  
67N. 6A35 D7A3 3U7T 4DT3 TND6 U.5D 5U4A 6ND3 UN7T N6TU (Cont'd)

**6797 kHz, 22-03, 1033 UTC, i.p.**

R HR WK NR 213 K  
R HR .. K  
R RPT 2P 05W K  
R O .. 1. 35 K  
R HR WK NR .544 K  
R M6LN K  
R OK QSL QSL 1835 K  
R R HR WK NR NR 127 K  
R DE C3PE K  
R QSL 1837 K  
R HR WK NR 16 K  
R DE I9KQ K (1037z)  
RPT 1P .555 RPT 1P 54W K  
... OK  
QSL 941 K  
RPT 2P .. K  
R QSL 1839 K  
HR WK NR .311 K

**5840 kHz, 24-03,0729 UTC, i.p.**

5N6A NN5D 4UAD (Cont'd) AR  
2FER CY HW K  
RPT 1P 05W = A3DA A3DA AR K  
R AS  
ITX2 CY HW K  
R AS  
9MFL CY HW K  
R AS  
VVV 2FER 2FER DE EZF1 K  
R U 7G GA K  
GA  
QSL 1538 K  
SK  
VVV ITX2 ITX2 DE EZF1 K  
R GA  
RPT RMKS K  
R GA  
RPT 1P 83W K (0758  
QSL 1600 K  
VA VA  
V MFL 9MFL DE EZFL K  
GA  
RPT RMSG EEE K  
GA  
R RPT 1P 43W K  
RPT 2P 5.W TO 55W K  
QSL 168EEEE QSL 1610 K  
SK

**3696 kHz, 25-03, 1452 UTC, i.p. QSX 3556 kHz**

R QSL 2255 K  
HR WK NR 212 K  
R VA I6IW de 5PJS K  
R GA K  
(msg i.p. on 3556 kHz)  
5PJS (rpt groups)  
R QSL 2310 K  
VA I6IW (rpt groups)  
R VA

**4883 kHz, 28-03, 1123 UTC, i.p.**

8ZFS 8ZFS K K  
R RPT 49W ....  
R R  
FFF NR FF NR 4259/EX 1924 RMKS CQ =  
ABC4/EF.2/K. 79 AR  
FFF NR 4259/EX 1924 RMKS CQ =  
ABC4/EF12/YZ79 AR  
VV H7ZI K K  
H7ZS K K  
R RPT 1W 1W = = ABC4 ABCR AR AR K  
R VV  
8ZFS 8ZFS K  
NR VV  
HY6X HY6X K K  
R R RPT KP KP KP KP  
SK SK SK SK

**5566 kHz, 28-03, 1009 UTC, i.p.**

5S 555 550 000 =  
...5N53U6 3N  
56 BT 465N 53U6 3N46 7N6A 6UNA 45D5 5335 T435 AR K K  
R QSA 3  
HR 7G GA  
R  
MSG GA  
NR 0001 CK 991

**9139 kHz, 30-03, 0842 UTC**

755A 3N34 6U43 A335 7NUT 74N5 (Cont'd) AR AR K  
R RPT ... (Suspect this might be other of 10149 transmission, but unable to confirm for sure)  
A HR  
SK GB GB

**10149 kHz, 30-03, 0832 UTC**

367U 7DUD ANN4 5AU4 56UD 7NUA UA75 (Cont'd)  
R R GA (Other station N/H on this frequency)  
R R K  
R AS  
HR 7G GA  
HR 7G MS  
NR NR 8018 CK 91 54 0330 1645 RMKS = 3105 TO 4745 AR K  
R = =  
TU53 75D4 3T65 TN3A 43AU N665 4ATT 4TN3 T5T3 TT37 (Cont'd) AR  
R GA K  
QSL 1659 QSL 1659 K  
R SK GB

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M95

**5632 kHz, 08-03, 1031 UTC, i.p.**

AR  
R 4W = D63N AR K (  
R 88W = 3TN4 AR K  
R U WK NR ?  
R KP  
VV UBVD DE I3LO K  
R.. K  
R 15W ... 75 AR K  
R 38W = A.D7 AR K  
R 74W TO 75W = T.75 T4.N AR K  
R U WK NR ? K  
R KP  
VV B3GV DE I3LO K  
R .. HW K  
R U WK NR ? K  
SKP  
VV T8TG DE I3LO K  
R CY HW K  
R U WK NR ? K  
R KP  
VV JUO8 DE I3LO K  
R CY HW K  
R 06W = N4UT AR K  
R U WK NR ? K  
R KP  
VV HBDL DE I3LO K  
U ...  
R CY HW K  
R 1P .. W = AU3. AR K  
R U WK NR ? K  
R KP  
VV XJOS DE I3LO K  
VV XJOS DE I3LO K  
R CY HW K  
R U WK NR ? K  
R KP  
VV A4JO DE I3LO K  
R CY HW K  
R U WK NR ? K  
R KP  
SK SK GB GB  
05 05 = = = = =

**8073 kHz, 09-03, 1137 UTC**

V BNGC (x3) DE XSV85 (x2)  
HR MSG GA PSE CY  
NR NR 0227 CK 197 35 0309 1610 = =  
TTN 3U6 3.N 3U7 TAU 773 TA7 773 (Cont'd)

**3344 kHz, 12-03, 1558 UTC**

6LMI DE MG5D  
HR MSG GA K  
6LMI DE MG5D QSA 2 QSA ? K  
6LMI DE MG5D R QSL 2300 K  
6LMI DE MG5D  
HR MSG GA NR 109 / CCK CK 91 67 03 13 0000 RMKS 5885 6995 = =  
753D 64NU  
6LMI DE MG5D OK QRU  
6LMI DE MG5D GB SK

**4178 kHz, 13-03, 1910 UTC**

G9KF DE I3LO K  
VUV U6ET DE I3LO K  
I3LO DE U6ET K  
I3LO R QSA 2 QSA ? K  
U6ET QSA 3 K  
I3LO IEC = 2149 AR  
U6ET R IEC = 1345K  
VUV B6GA DE I3LO K  
DE Q2WE K  
I3LO R QSA 2 QSA ? K  
Q2WE R QSA 2 K  
I3LO R IEC = 1953 AR K  
Q2WE R IEC = 5137 AR K R  
VV T8TG DE I3LO K  
VV JUO8 DE I3LO K  
RQSA 2 QSA ? K  
R QSA 1 K  
R IEC = 5137 AR  
IEC = 3354 K  
VV H6DL DE I3LO K  
VV X1OS DE I3LO K  
VV H6DL DE I3LO K  
I3LO RQSA 2 QSA ? K  
I3LO IEC = 5062 AR K  
ÉÉ NR NR 3863 /EX 0317 RMKS CQ K  
ÉÉÉ = O8UY/N5BG AR  
O8UY/N5BG AR K  
R  
H6DL QTR 0318 K  
I3LO HR MSG GA ?  
H6DL GA  
I3LO HR MSG NR NR 3864 CK 200 46 03 14 0300 RMKS CQ = A74T AT5D ...  
VUV G9KF DE I3LO K  
G9KF R QSL 0333Z  
VUV U6ET DE I3LO K  
U6ET R QSL 0335Z  
VUV B3GV DE I3LO K  
DE Q2WE R QSL 0337 K  
VUV T8TG DE I3LO K  
DE Q2WE R QSL 0337 K  
VUV JUO8 DE I3LO K  
DE JUO8 R QSL 0339 K  
VUV H6DL DE I3LO K  
VUV X1OS DE I3LO K  
SK SK GB GB

Just before "authentication" IEC = 05 05 05 is sent.

**4123 kHz, 14-03, 1532-1627 UTC**

PHWS DE WUIL K  
WUIL DE PHWS K  
WUIL QSA 2 QSA ? K  
PHWS QSA 2 K  
WUIL R IEC = 7500 AR K  
PHWS R IEC = 2067 AR  
WUIL 6758 AR K  
RPH3 DE WUIL K  
WUIL DE RPH3 K  
WUIL QSA 2 QSA ? K  
RPH3 R QSA 2 K  
WUIL R IEC = 5478 AR K  
RPH3 R IEC = 6758 AR K  
WUIL R HR MSG GA  
RPH3 GA K  
WUIL NR 6787 CK 35 54 03 14 2325 RMKS 3229 TO 3093 K  
RPH3 K  
WUIL R NR 6788 CK 35 54 03 14 2325 RMKS 3229 TO 3093 K  
RPH3 K  
WUIL R NR 6787 CK 35 54 03 14 2325 RMKS 3229 TO 3093 K  
RPH3 K  
WUIL R NR 6789 CK 35 54 03 14 2325 RMKS 3239 TO 3093 K  
RPH3 R  
RPH3 R AA  
WUIL HG MSG GR K  
RPH3 K  
RPH3 K  
WUIL = 46A4 A74D T335 37N7 ... / ... AR K  
RPH3 (repeats groups)  
WUIL (repeats groups)

**3788 kHz, 14-03, 1532 UTC, i.p.**

/CCK CK 91 67 0314 2230 RMKS 5885 TO 6214 =  
TDA7 53NU N354 AUTD 64NA 473U 5DN4 4N5D TU4D TTAD (Cont'd)  
AR QSL ? HW NR 150 K K  
R RPT K (Extremely weak station in background)  
R OK K (  
R 0893 0893 K  
R 0893 0893 K K  
R 1254 1254 K K  
R 9781 9781 K  
R 8046 8046 K  
R 1503 1503 K  
R 9174 9174 K  
R 3079 3079 K  
R R (1442z)  
R U MSG GA HW K  
R GA K (Too weak to copy)  
/CCK CK 91 .... RMKS .... TO .8.. K (Cont'd) AR K  
R QSL 2249 K  
K  
R SK K  
R HR WK NR 150 K K  
SK K



**4364//8073 kHz, 15-03, 1138 UTC**

V BNGC (x3) DE XSV85 (x2)  
HR MSGS GA PSE CY (1139z)  
NR 0244 CK 192 35 0315 1543 = =  
TA5 3U6 AND 3U7 TAU 773 TA7 773 TAD 773  
357 373 4T3 NN3 446 4D7 (Cont'd)

**5018 kHz, 15-03, 1245 UTC, i.p.**

RMKS 1285 TO 5164 K (Other station on 5165kHz)  
R R 13 = =  
D44N 4NDA D.37 (Cont'd) AR K

**5165 kHz, 15-03, 1234 UTC, i.p. (QSX on 5018 kHz)**

DE CU.. K  
R HR QSA 2 K  
R IEC = PG AR K  
R HR NR 141 K  
K  
R HR NR 141 K K  
R R HR 7G GA K  
R 7G  
NR 89/CCK CK 59 86 0315 2033 RMKS 7G  
NR 89/CCK CK 59 86 0315 2033 RMKS 5165 TO 1285 K  
R R =  
D44N 4NDA D437 7T34 UND4 AT.T 75A4 D6D6 TA74 TT4T U3T3 (Cont'd) AR K  
R RPT K  
R 14W = 43A7 AR K  
R 21W = 4N4A AR K  
R 21W = 4N4A AR K (Cont'd to repeat groups)  
R GA

**4243//9054 kHz, 15-03, 1148 UTC**

HR MSG TO YR PSE CY  
NR 073 CK 17 35 0315 1524 =  
5TD U.T TA5 (Cont'd) AR  
7G AGN  
NR 073 CK 17 35 0315 1524 =  
5TD UTT TA5 3U6 (Cont'd)  
A HR 7G GA  
NR 057 CK 17 35 0315 1545 =  
UT5 TA5 3U6 3A4 TTA TTU TT3 773 35U (Cont'd) AR  
7G AGN  
NR 057 CK 17 35 0315 1545 =  
UT5 TA5 3U6 3A4 TTA (Cont'd) AR  
A HR MSG GA  
NR 30 CK 106 35 0315 1615 =  
UTU TA5 3U6 3A4 TTU 773 353 (Cont'd)

**4243 kHz, 16-03, 1146 UTC**

V HR 7G TO YR PSE CY  
NR 075 CK 17 35 0316 1520 =  
5TD UTT TA6 3U6 3A4 353 4TN U74 N4A 434  
3DA TTU TT3 773 446 3DU 4D3 AR  
7G AGN  
NR 075 CK 17 35 0316 1520 = (Repeats message) AR  
A HR 7G GA  
NR 060 CK .3 35 0316 1546 =  
UT5 TA6 3U6 3A4 TTA TTU TT3 773 45. 4.445 AR  
7G AGN  
NR 060 CK 13 35 0316 1546 = (Repeats message) AR

A HR 7G GA  
NR 32 CK 087 35 0316 1612 =  
..TA6 3U. 3A4 TTU N44 TT3 773 353 (Cont'd) AR  
7G AGN  
NR 32 CK 087 35 0316 1612 =  
..6 3U6 3A4 TTU N44 TT3 773 (Cont'd repeat message) AR (  
A HR UP SB WK AR AR AR

**8073 kHz, 16-03, 1139 UTC, XSV85 i.p.**

PSE CY  
NR 0U48 CK A79 35 0316 1606 =  
TA6 3U6 3AN 3U7 TAU 773 357 373 (Cont'd)

**4364//8073 kHz, 17-03, 1136 UTC**

V BNGC (x3) DE XSV85 (x2)  
HR 7G GA PSE CY  
NR 0250 CK 175 35 03A7 EEEEE  
NR 0250 CK 175 35 0317 1522 = =  
TA7 3UD 3AN 3U7 TAU 773 353 (Cont'd)

**4243//9054 kHz, 17-03, 1148 UTC**

VVV HR 7G TO YR PSE CY  
NR 077 18 35 0317 1441 =  
5TD UTT TA7 3U6 3A4 (Cont'd) AR  
NR 077 18 35 0317 1441 =  
5TD UTT TA7 3U6 3A4 353 36T 4TN U7U N4A  
444 3DA TTU TT3 773 435 3DU 4D4 AR  
A HR 7G GA  
NR 34 141 35 03A7 1610 =  
UTU TA7 3U6 3A4 TTU 773 353 U4T 35A 4TN (Cont'd) AR  
MSG AGN  
NR 34 141 35 0317 1610 =  
UTU TA7 3U6 3A4 TTU 773 (Cont'd repeat message) AR  
A HR 7G  
NR 063 19 35 0317 1623 =  
UT5 TA7 3U6 3A4 TTA TTU TT3 773 353 N3D  
35U 36U 4AD 3A4 N3D 4KT 445 4D4 3DA AR  
MSG AGN  
NR 063 19 35 0317 1623 =  
UT5 TA7 (Repeats message) AR  
HR UP SB WK AR

**5725 kHz, 20-03, 1330 UTC, i.p.**

VV B8JH DE V7HY  
HR CQ =  
HR CQ =  
7G  
NR 80/CCK CK 28 81 0320 2330 RMKS 4137 TO 80479 7.70 .898 =  
7D5. 5NDA 765A 7T3A A57U 5D3T 3N4N A7UT (Cont'd) AR  
HR 1A EEEE HR 7G  
7G NR 80/CCK CK 28 81 0320 23 EEEE  
7G  
NR 80/CCK CK 28 81 0320 2330 RMKS 3147 TO 80479 7.72 9798 = =  
7D5U 5NDA 765A 7T3A A57U 5D3T 3N4N A7UT TUAA TTTU  
D34D 4A3T 7U57 U43T DUD6 6AUN 5T53 UTTN 46T6 3U53  
763T D..3 6TT6 73U. 557N A645 5447 4..N AR  
HR NR EEEEE  
Hr NR 13. HR EEEE  
HR NR 133 NIL SK

**4243//9054 kHz, 21-03, 1147 UTC**

VVV HR 7G TO YR PSE CY

NR 085 CK 35 35 0321 1433 =

5TD UTT TUA 3U6 7T3 7TA N44 3A4 35U N3D

353 4A5 336 N3D 4AA U7U N4A 445 3DA 336

DA5 N34 443 DA4 TTU TT3 773 446 3D3 336

DA5 N34 435 3DU 4D3 AR

7G AGN

NR 085 CK 35 35 0321 1433 = (Repeats message) AR

A HR 7G GA

NR 42 CK 120 35 0321 1610 =

UTU TUA 3U6 3A4 TTU 773 35. N3D 353 4TN 445 (Cont'd) AR

7G AGN

NR 42 CK 120 35 0321 1610 = (Repeats message) AR

A HR 7G GA

NR 075 CK 17 35 0321 1629 =

UT5 TUA 3U6 3A4 TTA TTU TT3 773 35U 4TA

N3D 4TN 445 4D6 N3D 4D3 3DA AR

7G AGN

NR 075 CK 17 35 0321 1629 = (Repeats message) AR

A HR UP SB WK

**4364//8073 kHz, 21-03, 1137 UTC**

V BNGC (x3) DE XSV85 (x2)

HR MSG GA PSE CY

NR 0258 CK 114 35 0321 1644 =

TUA 3U4 3A4 TAU 773 354 35N 373 4T3 NN3 (Cont'd)

**4615 kHz, 21-03, 1214 UTC, i.p.**

RMKS 6871. TO 685.. =

7G NR 088/CCK CK 40 43 0321 2010 RMKS 687. TO 6854 K

R 1P K (Message format indicates QV5B family)

R R

10 P. AGN 2.. K (Very noisy)

R

DN7. 37ND 4U3U 6A74 D7TT (Cont'd) AR K

R U MSG GA K

R GA

R RPT 26W K

R QSL 20.0 4 K

SK

**4243//9054 kHz, 21-03, 2347 UTC, i.p.**

AR

A HR MSG GA

NR 086 20 35 0322 0630 =

5T. UTT .UU 3.4 3A4 353 (Cont'd) AR

MSG AGN

NR 086 20 35 0322 0630 =

5TD UTT TUU 3U4 3A4 353 4TN 336 N3D 4TA

U7U N4A 444 3DA TTU TT3 773 445 3DU 4.. AR

A HR 7G GA

NR 43 63 35 0322 0710 =

UTU TUU 3U4 3A4 TTU N44 TT3 773 (Cont'd) AR

MSG AGN

NR 43 63 35 0322 0710 =

UTU TUU 3U4 (Repeats message) AR

A HR UP SB WK

**4364//8073 kHz, 22-03, 0008 UTC**

V BNGC (x3) DE XSV85 (x2)  
HR MSG GA PSE CY  
NR 0260 CK 112 35 0322 0700 =  
TAU 3U4 3A4 TTU 773 TA7 773 357 35N (Cont'd) AR  
7G AGN  
BNGC (x3)DE XSV85 XSV85 (x2) (x2)  
7G GA PSE CY  
NR 0260 CK 112 35 0322 0700 =  
TAU 3U4 3A4 TTU 773 TA7 773 357 35N (Cont'd) AR AR AR AR

**4364//8073 kHz, 22-03, 1138 UTC**

V BNGC (x3) DE XSV85 (x2)  
HR MSG GA PSE CY  
NR 0261 CK 219 35 0322 1611 =  
TUU 3U6 3AN 3U7 TAU 773 TA7 773 357 (Cont'd)

**4243//9054 kHz, 22-03, 1144 UTC**

NR 087 CK 19 35 0322 1515 =  
5TD UTT TUU 3U6 3A4 353 4T7 N3D 4TA U7U  
N4A 444 3DA TTU TT3 773 445 3DU 4D3 AR  
MSG AGN  
NR 087 CK 19 35 0322 1515 = (Repeats message) AR  
A HR MSG GA  
NR 078 CK 19 35 0322 1632  
UT5 TUU 3U6 3A4 TTA TTU TT3 773 53U 4T3  
544 ADN 3D4 A74 454 D3N 3D4 D63 DAA AR  
7G AGN  
NR 078 CK 19 35 0322 1632 BT (Repeats message) AR  
544 ADN 3D4 A74 454 D3N 3D4 D63 DAAR  
A HR 7G GA  
NR 44 CK 105 35 0322 1645 =  
UTU TUU 3U6 3A4 TTU N44 TT3 N44 TT5 773 (Cont'd) AR  
7G AGN  
NR 44 CK 105 35 0322 1645 =

**4364//8073 kHz, 28-03, 1139 UTC**

A HR MSGS GA PSE CY  
NR 0282 CK 27 35 03U8 1542 =  
TT3 N5U TUT N53 T.D N54 7TT TTT 746 7T5  
77T 6TN 7AA 773 NN3 NNA DU4 DTT N36 DUN  
NU7 NU5 N4T 746 U6D 6T7 7U5 AR  
A HR 7G GA  
NR 0283 CK 215 35 0328 1623 =  
TUD 3U6 3AN 3U7 TAU 773 353 363 4T3 NN3 (Cont'd)

**4243//9054 kHz, 28-03, 1146 UTC**

A HR 7G TO YR PSE CY  
NR 099 CK 20 35 0328 1530 =  
5TD UTT TUD 3U6 3A4 354 373 4TN NAT 463  
U7U N4A 434 3DA TTU TT3 773 446 3D3 4D3 AR  
A HR MSG GA  
NR 56 CK 107 35 0328 1615 =  
UTU TUD 3U6 3A4 TTU N44 TT3 773 354 373 (Cont'd) AR  
A HR 7G GA  
NR 096 CK 19 35 0328 1640 =  
UT5 TUD 3U6 3A4 TTA TTU TT3 773 353 N3D  
35U 4AA 445 33U 446 4D3 3DA N3D 3DU AR  
A HR UP SB WK

**4364//8073 kHz, 29-03, 1137 UTC**

V BNGC (x3) DE XSV85 (x2)  
HR 7G GA PSE CY  
NR 0285 CK 181 35 0329 1545 =  
TUN 3U6 3AN 3U7 TAU 773 353 363 4A7 NN3 (Cont'd)

**4243//9054 kHz, 29-03, 1148 UTC**

VV HR MSG TO YR PSE CY  
NR 001 CK 20 35 0329 1450 =  
5TD UTT TUN 3U6 3A4 353 36T 4AA N3D 4TU  
U7U N4A 445 3DA TTU TT3 773 446 3DU 4D4 AR  
MSG AGN  
NR 001 CK 20 35 0329 1450 BT (Repeats message) AR  
A HR MSG GA  
NR 099 CK 36 35 0329 1559 BT  
UT5 TUN 3U6 3A4 TTA TTU TT3 773 356 4AA  
446 TTA 773 345 N3D 4TA 446 TTU TT3 773  
34T N3D 4TA 445 4D3 N3D 4D6 TTA 773 3DU  
TTU TT3 773 3DU N3D 3DA AR  
MSG AGN  
NR 099 CK 36 35 0329 1559 BT (Repeats message) AR  
A HR MSG GA  
NR 58 CK 135 35 0329 1640 BT  
AAU TUN 3U6 3A4 TTU 773 35A N3D 353 4TN (Cont'd) AR  
MSG AGN  
NR 58 CK 135 35 0329 1640 BT (Repeats message) AR  
A HR UP SP EEEEE A HR UP SB WK AR

**8600 kHz, 30-03, 0700 UTC XSV – Tianjin Radio i.p. with identical messages as M95**

N/W XSV NR 071 CK 051 28 1510 =  
76U7 53. ... (1.. ) 3U5D 3ADT .. 3..  
..W XSV NR 070 CK 083 28 .055 =  
... 3TT 6UU6 (01..) T6A3 U4DT 63.. 7U3T T4N7 3U63 (Cont'd)  
N/W XSV NR 069 CK 058 27 1826 =  
T37T 53.. 6UU6 (0..1) .... 3AD. TT74 A56U (81) (Cont'd)  
... XSV NR 067 CK 031 27 1103 =  
T37. ... 3U6 (0047) .... (Cont'd)  
... XSV NR 0.7 CK 0.. .. 0953 =  
... (31) U4DT (1700) U5A4 AA3A 77UN A654 (Cont'd)  
N/W XSV NR 050 CK 0.4 21 10.9 =  
3A6T (17..) 3U5D 3ADN ... (Cont'd)  
N/W XSV NR 049 CK 024 21 .006 =  
... (17032) ...3ADN UUT7 AT3U (Cont'd)  
.... VA

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## MC03 - Chinese Air Defense

### **4845 kHz (a) and 5470 kHz (b), 11-03, 0733-0800 UTC**

- b) N4D K  
N4D QSA ? K  
N4D UCF K  
N4D QSA NO K  
N4D R  
N4D CQ = 261513792303  
AA = 538534457113  
AA = 79305127310  
AA = 556668308779  
AA = 111055616610  
AA = 436435023368  
AA = 066151799242  
AA = 968274714590  
AA = 070006213199  
AA = 843406031246  
AA = 902102367657  
AA = 766146899794  
AA = 538524457213  
AA = 793051267310  
AA = 435625624368 K  
N4D R ? K
- a) ... 0937  
AA = 99923  
AA = 0201  
AA = 68869  
AA = 04405  
AA = 93318  
AA = 14854  
AA = 54839  
AA = 37530  
AA = 68791  
AA = 99008  
AA = 80152  
AA = 01618 K
- b) N4D R  
B19 K  
B19 AA K

### **3021 kHz, 12-03, 1616 UTC**

ZD2 ZD2 ZD2  
= 0645N5747  
= TD46733  
= 47D4A633ATT47  
= TD4673D4D  
= TD467UD4N  
= T645ND3  
= NT7D4N  
= TD455355T

---



## UM03 - X2M

### **7920/8250/8410 kHz, 08-03, 0937 UTC, i.p.**

AR

03 03 CK 100 CK 100 TIME 1636 TIME 1636 DATE 0803 DATE 0803 =  
D.5A6 ...7U 6U73N 4NT6A (Cont'd) AR

05 05 CK 100 CK 100 TIME 1642 TIME 1642 DATE 0803 DATE 0803 =  
T.734 73NT. 5.3A7 (Cont'd) AR

07 07 CK 100 CK 100 TIME 1648 TIME 1648 DATE 0803 DATE 0803 =  
A764U 435AD ANU4. 6UDN5 (Cont'd; ends 0950z in middle of message)

### **7920/8250/8410 kHz, 10-03, 0937 UTC, i.p.**

AR

03 03 CK 100 CK 100 TIME 1637 TIME 1637 DATE 1003 DATE 1003 =  
D45A6 T.A7U (Cont'd) AR

05 05 CK 100 CK 100 TIME 1642 TIME 1642 DATE 1003 DATE 1003 =  
T6734 73NT6 5T3A7 T5765 (Cont'd)

(0947z - Silent in the middle of the message)

### **7920/8250/8410 kHz, 15-03, 0929 UTC, i.p.**

AR

ZOM15

CQ (x3) DE X2M (x2) VVV (Cont'd)

MSG MSG ENG ENG

CQ (x3) DE X2M (x2) VVV (Cont'd)

MSG MSG ENG ENG

MSG ENG

01 01 CK 100 CK 100 TIME 1631 TIME 1631 DATE 1503 DATE 1503 =  
546UN 6UNT7 4TA75 6573A (Cont'd)

### **7920/8250/8410 kHz, 20-03, 0912 UTC, i.p.**

AR

15 15 CK 100 CK 100 TIME 1613 TIME 1613 DATE ..03 TIME 1803 =  
.N4T 3NT. U.... (Cont'd)

### **7920/8250/8410 kHz, 28-03, 0855 UTC, i.p.**

AR

09 09 CK 100 CK 100 TIME 155. TIME 155. DATE 2803 DATE 2803 =  
7.D.. 4D5T. (Cont'd)

### **7920/8250/8410 kHz, 31-03, 0918 UTC, i.p.**

U43N6 5A6DN 4T7A6 T6AD3 546UN (Cont'd) AR

17 17 CK 100 CK 100 TIME 1619 TIME 1619 DATE 3103 DATE 3103 =  
NTN35 3NT6U T6374 (Cont'd)



## UM10 - 10-minutes net

6782 kHz, 07-03, 0615 UTC: 4DAG

3192 kHz, 08-03, 1610 UTC: OBCD //3207 kHz

5880 kHz, 09-03, 0715 UTC: 4DAG //6782 kHz

## DIGITAL MODES



### *HM01* Dirección General de Inteligencia

Modes: AM voice and RDFT

#### **11435 kHz, 09-03, 1600 UTC**

Radio Habana Cuba until 1613z, then 53366 52518 07011 54822 75584 50051 (repeat of 06 March)

#### **11435 kHz, 11-03, 1602 UTC**

Radio Habana Cuba for a few minutes followed by 53366 52518 07011 54822 75584 50051 (repeat of 06 March)

#### **10715 kHz, 31-03, 2200 UTC**

Radio Rebelde, then into 58675 62551 44101 45612 28555 70471

HM01 was in repeat mode during several days in March.

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### HM02

Modes:  
FSK-19.8Bd/129Hz and FSK-CW

#### **4761 kHz, 01-03, 0520 UTC**

901 49 =

68180 53334 27807 54130 57844 41187 06366 38777 57018 64370  
47235 83081 81375 64413 83681 24765 83028 61024 65738 67823  
43761 67804 78725 60860 65043 37554 00421 48133 06270 14345  
04625 82141 30181 10146 44376 54500 16124 76265 05610 32632  
68217 66764 33381 88750 04038 10658 47670 35784 20113

= 901 49 901 49 = repeats message = 901 49 000

#### **4761 kHz, 02-03, 0520 UTC**

839 42 =

80278 32241 23181 35532 81625 14434 47387 11803 32803 54015  
05620 61082 40165 44752 27507 34785 51263 44245 16137 04272  
83831 38557 31204 72730 51310 00215 33540 65815 34371 46625  
47881 50720 54287 60552 08467 76085 17431 32614 85576 71484  
54377 43673

= 839 42 839 42 = repeats message = = 839 42 000

Note: Same as sent on 14 and 18 February with different id's.

#### **4761 kHz, 03-03, 0520 UTC**

906 46 =

80278 32241 23181 35532 81625 14434 47387 11803 32803 54015  
05620 61082 40165 44752 27507 34785 51263 44245 16137 04272  
83831 38557 31204 72730 51310 00215 33540 65815 34371 46625  
47881 50720 54287 60552 08467 76085 17431 32614 85576 71484  
54377 43673 54768 12398 56400 65901

= 906 46 906 46 = repeats message = = 906 46 000

Note: Same message as on 2 March but with 4 additional groups and a different id



**4761 kHz, 04-03, 0520 UTC**

No transmission

**4761 kHz, 05-03, 0520 UTC. FSK-19.8Bd/129Hz callup, followed by FSK 50Bd/129Hz FSK instead of CW.**

244 45=

17725 24804 44712 2328 067011 17352 55033 31620 26252 6:514

32023 70121 4

Pause

815 47 =

80244 67471 81872 46458 17022 55612 10835 77611 78464 33047

8&415 75678 22612 55867 53352 12761 61656 72526 35123 56258

27687 30547 88377 14662 33342 11420 02613 83878 02707 37142

86855 31584 36628 55818 61787 00702 55671 84427 85281 41427

03

Pause

815 47 =

80244 67471 81872 46458 17022 55612 10835 77611 78464 33047

8&415 75678 22612 55867 53352 12761 61656 72526 35123 56258

27687 30547 88377 14662 33342 11420 02613 83878 02707 37142

86855 31584 36628 55818 61787 00702 55671 84427 85281 41427

03203 5563 10731 55610 83272 66007 072646

. 815 47

Pause

815 47 =

80244 67471 81872 46458 17022 55612 10835 77611 78464 33047

8&415 75678 22612 55867 53352 12761 61656 72526 35123 05625

27687 30547 88377 14662

Pause and finally the correct message in Morse

417 49 =

33968 76862 34584 21299 95477 28596 76353 52411 91315 10316

09634 81752 73422 05418 55983 96284 21395 82393 60671 78481

04112 77552 47196 82203 79466 21050 78586 63149 05041 68999

12652 95898 83155 42899 52312 49322 72619 82679 89134 00971

40864 45459 66821 09138 26870 71327 72398 42464 80031

= 417 49 417 49 = repeats message = 417 49 000

**4761 kHz, 06-03, 0520 UTC**

531 44 =

82247 76594 81625 07533 74381 51275 32183 27658 91240 40617

88919 19138 92045 23700 72256 23385 17228 77443 13528 74699

87484 42925 67103 43452 22997 68928 06436 24737 35009 26716

81218 81208 29754 86501 59050 12535 39158 19111 55505 40365

65708 18702 79835 03370

531 44 531 44 = repeats message = 531 44 000

**4761 kHz, 07-03, 0520 UTC**

928 43 =

60686 12508 11103 17777 72454 18815 82140 65027 68654 36781

46801 15864 82122 10711 85130 47480 41753 71704 18725 20656

47254 83336 78232 53861 57688 12668 46331 34176 87671 72683

68522 30671 33244 30853 43538 82642 74650 82406 78277 01313

80644 58357 17480

= 928 43 928 43 = repeats message = 928 43 000

**4761 kHz, 08-03, 0520 UTC**

873 41 =

08323 45856 66117 87056 03885 74607 05645 07275 67731 75751  
 65488 16723 36543 52427 33274 28733 71478 04078 14544 30020  
 70070 32178 82752 76671 42331 72646 15558 51723 62548 44328  
 55251 17875 11000 36261 33056 47260 00583 07406 53580 51111  
 53086

= 873 41 873 41 = repeats message = 873 41 000

**4761 kHz, 09-03, 0520 UTC**

371 46 =

28037 23660 11664 17423 56666 16181 13185 73635 21363 47806  
 6Sh717 26681 57316 72772 61442 30228 64804 36608 73362 42050  
 30815 88684 56786 47254 20054 70372 43224 56172 21134 70863  
 04615 63006 68121 51511 74628 86511 80668 27387 88651 56225  
 08478 62780 35834 43742 76234 27614

= 371 46 000

Notes: There was no repeat today. The message was sent just once.

The 2nd figure of the 11th group was 4 dashes which is the Russian letter Sh. This should have been a 1, I guess.

**4761 kHz, 10-03, 0520 UTC**

985 59 =

35755 34007 74954 22359 85215 81386 73960 77100 20733 05036  
 89547 07133 09727 41647 25814 16676 20942 32917 81587 41015  
 57241 07455 82837 88151 08061 14371 01744 56857 17303 15571  
 36888 15460 83095 27676 40607 24843 03256 96510 18570 61323  
 79342 05224 00687 24975 47667 61178 01041 25814 16676

= 985 49 985 49 = repeats message = 985 49 000

**4761 kHz, 11-03, 0520 UTC**

937 42 =

82367 23738 10331 43651 17134 56077 04348 30764 71051 22275  
 84383 74061 05028 03681 71404 17413 2 then off

**4761 kHz, 12-03, 0520 UTC**

948 48 =

24045 20602 72852 00725 35870 28723 74800 27647 73037 08875  
 57733 72230 44042 08883 54163 15678 64355 36704 15362 63247  
 27600 00171 51740 06680 78836 26734 61658 16870 10844 31734  
 48130 21422 35242 85520 84858 24127 71402 81011 31466 62002  
 84880 04716 55625 17603 81237 66326 12885 74281

= 948 48 948 48 = repeats message = 948 48 000

**4761 kHz, 13-03, 0520 UTC**

247 49 =

71712 34134 57130 11270 15360 00751 47875 64752 65880 78444  
 25253 71377 38432 34571 78253 15833 70362 54037 26840 07237  
 85717 70786 72538 38038 22243 51661 08326 25803 85262 46206  
 12446 44448 10336 58156 55756 81056 41007 43147 50570 73216  
 48780 15825 35704 70737 76625 81565 13477 15845 31823

= 247 49 247 49 = repeats message = 247 49 000

0531 UTC Callup sequence

0533 UTC Callup sequence

0535 UTC Callup sequence, then off

**4761 kHz, 14-03, 0521 UTC**

274 46 =

12649 08179 48307 61973 62828 21299 41755 28935 00332 30668  
 78326 32934 25231 44987 43762 63997 29242 14611 12987 81279  
 29975 44390 16623 78384 96004 70816 74533 59168 76907 09136  
 64489 66393 14742 53692 14278 68195 61964 16262 28545 63603  
 01290 14015 31639 06868 75986 08862

= 274 46 274 46 = repeats message = 274 46 000

**4761 kHz, 15-03, 0520 UTC**

906 43 =

54848 22008 88411 24857 67348 93038 92067 13707 93536 32965  
 03049 00634 49121 44564 75397 50259 71648 07736 83727 36702  
 51182 41965 12908 59666 09712 96908 03643 37164 81045 72890  
 64674 19876 70149 92940 15003 95878 70692 41102 62973 79198  
 28105 09180 08236

= 906 43 906 43 = repeats message = 906 43 000

**4761 kHz, 16-03, 0520 UTC**

432 42 =

12649 08179 48307 61973 62828 21299 41755 28935 00332 30668  
 78326 32934 25231 44987 43062 63997 29242 14611 12987 81279  
 29975 44390 16623 78384 96004 70810 74533 59168 76907 09136  
 64489 66393 14742 53692 14278 68195 51964 16262 28545 63603  
 01290 14015

= 432 42 432 42 = repeats message = 432 42 000

Note: Same message as 14 March minus the last four groups

**4761 kHz, 17-03, 0520 UTC**

807 46 =

76636 62631 15383 54865 36000 51644 16836 78141 80482 03148  
 81007 17130 52677 41256 05131 76071 68015 07281 66708 64282  
 80110 28522 74142 27803 26624 30182 52800 30457 40224 41257  
 01573 60352 23555 61217 82467 47353 30156 33087 16505 06813  
 26516 87560 36574 25230 08533 80472

= 807 46 807 46 = repeats message = 807 46 000

**4761 kHz, 18-03, 0520 UTC**

256 42 =

76636 62631 15383 54865 36000 51644 16836 78141 80482 03148  
 81007 17130 52677 41256 05131 76071 68015 07281 67608 64282  
 80110 28522 74142 27803 26624 30182 52800 30457 40224 41257  
 01573 60352 23555 61217 82467 47353 30156 33087 16505 06813  
 26516 87560

= 256 42 256 42 = repeats message = 256 42 000

Note: Same message as sent on 17 March minus the last four groups

**4761 kHz, 19-03, 0520 UTC**

866 45 =

76636 62631 15383 54865 36000 51644 16836 78141 80482 03148  
 81007 17130 52677 41256 05131 76071 68015 00281 67608 64282  
 80110 28522 74142 27803 26624 30182 52800 30457 40224 41257  
 01573 60352 23555 61217 82467 47353 30156 33087 16505 06813  
 26516 87560 56781 54321 45678

= 866 45 866 45 = repeats message = 866 45 000

Note: The first 42 groups are the same as sent on 17 and 18 March.

No transmission on 20 March.

**4761 kHz, 21-03, 0520 UTC**

801 42 =

68720 20250 34374 60086 33344 77476 01735 73522 57788 51433  
41587 51025 48174 76815 65583 65688 17075 54824 20503 72667  
13535 48572 25433 20050 20175 17545 26465 70513 83411 36104  
61687 83647 75655 03822 14106 74577 68352 73862 86606 10287  
61513 83430

= 801 42 801 42 = repeats message = 801 42 000

**4761 kHz, 22-03, 0520 UTC**

951 46 =

27687 30547 88377 14662 33342 11420 02613 83878 02707 37142  
86855 31584 36628 55818 61787 00702 55671 84427 85281 41427  
80244 67471 81872 46458 17022 55612 10735 77611 78464 33048  
84415 75678 22612 55867 53352 12761 61656 72526 35123 56258  
03203 55638 10731 55610 83272 66007

= 951 46 951 46 = repeats message = 951 46 000

**4761 kHz, 23-03, 0520 UTC**

982 43 =

01306 02771 10624 14112 14582 32156 43781 84817 50647 71335  
44812 14426 70604 66251 54023 06832 20875 46563 78086 33487  
40640 01587 13637 26645 31061 63335 02247 10672 41682 73103  
50026 12673 84758 64527 58876 11663 85182 10210 32213 77758  
28206 25585 24188

= 982 43 982 43 = repeats message = 982 43 000

**4761 kHz, 24-03, 0520 UTC**

287 43 =

67957 54095 98306 55931 99939 54034 16184 39455 74459 26315  
44476 16133 69285 68677 19679 71366 62357 31228 88269 59549  
34813 88537 32148 75998 23673 08081 03831 54395 71330 23584  
60790 45495 28196 07233 26131 83829 95730 14838 25402 30608  
34000 35014 40930

= 287 43 287 43 = repeats message = 287 43 000

**4761 kHz, 25-03, 0520 UTC**

156 45 =

53515 11058 58238 13446 50847 17671 26737 37581 55271 65363  
51060 85810 41683 15156 78541 51883 61847 37483 50152 67508  
37556 53887 77483 10042 36510 88658 32405 32882 31263 77738  
40780 42178 11743 16413 30602 83773 04013 38023 63642 75604  
35221 50750 51125 37766 50024

= 156 45 156 45 = repeats message = 156 45 000

**4761 kHz, 26-03, 0520 UTC**

958 42 =

51060 85810 41683 15156 78541 40780 42278 11743 16413 30602  
37556 53887 77483 10042 36510 88658 32405 32882 31263 77738  
53515 11058 58238 13446 50847 17671 26737 37581 55271 65363  
35221 50750 51125 37766 50024 51883 61847 37483 50152 67508  
83773 75604

= 958 42 958 42 = repeats message = 958 42 000

#### 4761 kHz, 27-03, 0420 UTC

Note: I missed this transmission because they changed the transmission time to 0420 UTC

#### 4761 kHz, 28-03, 0420 UTC

846 51 =  
88571 96459 67435 66778 15962 12114 91493 61184 49501 53068  
25308 09870 38234 86651 78006 31426 86277 61166 30760 10450  
87318 43524 12489 51000 70381 85600 73418 87101 06954 28346  
22748 33532 92333 38629 14979 21508 94500 08691 11607 27770  
34052 22362 10208 72364 31168 51125 66960 10184 57014 63729  
01813  
= 846 51 846 51 repeats message = 846 51 000

#### 4761 kHz, 29-03, 0520 UTC

723 50 =  
43578 35118 16810 47136 75883 10145 50165 00581 11321 28205  
02385 82185 21508 17464 01374 70753 05014 18560 07061 25111  
52528 66453 32501 00082 41402 27773 55025 48616 45785 01324  
41505 35066 76067 11461 24486 40868 54201 33326 08336 48301  
61741 03311 63255 74413 46271 64768 56453 88104 23833 85180  
= 723 50 723 50 = repeats message = 723 50 000

Note: Back at its old time.

#### 4761 kHz, 31-03, 0420 UTC

809 46 =  
12649 08179 48307 61973 62828 21299 41755 28935 00332 30668  
78326 32934 25231 44987 43762 63997 29242 14611 12987 81279  
29975 44390 16623 78384 96004 70816 74533 59168 76907 09136  
64489 66393 14742 53692 14278 68195 61964 16262 28545 63603  
01290 14015 31639 06868 75986 08862  
= 809 46 809 46 = repeats message = 809 46 000

Note: New time again. Same message as sent on 14-03 but with a different id.

### F01, F06, M42, M42a, M42b & X06



Modes:  
Various digital modes, CW,  
Tones (Мазелка / Mazielka)

### Russian Government & Intelligence



#### M42 – various modes

Daniel found a number of M42 transmissions coming from Cuba.

16023 kHz, 14-03, 2033 UTC	BZL26 FSK 50/500 ACF=128
12221 kHz, 14-03, 2039 UTC	BZL26 FSK 50/500 ACF=128
16023 kHz, 14-03, 2054 UTC	BZL26 FSK 50/500 ACF=128
12221 kHz, 14-03, 2059 UTC	BZL26 FSK 50/500 ACF=128
16023 kHz, 14-03, 2115 UTC	BZL26 FSK 50/500 ACF=128

9068 kHz, 8-03, 1140 UTC, FSK 75/500	11111 41118 51442 91910 94910 followed by a garbled 5FGs message; then ops chat in CW: CFM NIL SK
8054.8 kHz, 24-03, 1525 UTC, CROWD-36	Russian diplo. Several short messages

5732 kHz, 03-03, 0528 UTC, CW	FGDE wkg CNOX
5328 kHz, 03-03, 0624 UTC, CW	WL4I wkg BFRW
6110 kHz, 03-03, 0731 UTC, CW	MÔÛZ wkg MBDI

RYYYYRYRYYRRYRYYRYYRYY

291 100 05 0500 1234 =

21876 56748 45612 47389 80956 78569 56421 56743 45621 67859  
34521 65789 45367 56721 65098 72891 76980 23567 52461 45789  
45312 67548 78690 48379 56723 67584 08923 56721 45623 09812  
45126 89743 80956 67812 56473 67821 78594 78921 09843 72681  
45321 78954 76521 47893 98065 76821 56743 89021 54768 76821 =50=  
76521 67843 65890 26718 54637 78921 56784 45236 76584 80921  
89504 75612 67843 78912 89054 56721 56473 56721 67584 89721  
43567 78956 56721 57489 78921 89560 78912 67845 62354 65748  
56890 54678 54632 54637 21456 76859 78960 23451 54637 87921  
51959 10543 xxx96 97453 96410 99033 29743 19643 09623 86321 =100=

0529

K

RYYRYRYRYRYRYRYRYRYRYRYRYRYRYRY  
008 100 8 0800 1234 =6!  
RYYRYRYRYRYRYRYRYRYRYRYRYRYRYRY  
SLD K

QTC1 SLD K  
FLSK FLSK FLSK DE PRUCh PRUCh K  
ShGUT ShGUT ShGUT DE PRUCh PRUCh K  
ShGUT ShGUT ShGUT DE PRUCh PRUCh K

54

**10467/8094/6779 kHz, 01-03/03-03, 1940/1950/2000 UTC**

=8911 44398715770273695  
 =8292 909845725892995953  
 =8183 53213159653936991  
 =8534 74602367269956374  
 =8425 39735638339265236  
 =8826 697010906433215115  
 =8217 532334357388762148  
 =8248 73740419118083297  
 =8549 35307799427766397  
 =84310 521318492640222120  
 =86011 24495048428285399  
 =85712 82602031800223639  
 =85113 968759534746316126  
 =82214 13631906931700592  
 =88115 852958252619836167  
 =82916 715711428529779208  
 =80217 76359443225234551  
 =87518 41984859124276395  
 )75119 4905400000++++237

44398 71577 02736 90984 57258 92995 53213 15965 39369 74602  
 36726 99563 39735 63833 92652 69701 09064 33215 53233 43573  
 88762 73740 41911 80832 35307 79942 77663 52131 84926 40222  
 24495 04842 82853 82602 03180 02236 96875 95347 46316 13631  
 90693 17005 85295 82526 19836 71571 14285 29779 76359 44322  
 52345 41984 85912 42763 49054 00000

**16023/13555/16023/13555 kHz, 06-03, 0025/0035/0125/0135 UTC**

kHz: Link ID 00117, Date 3rd, Serial #10, Groups 186

11177 00117 87153 03010 01869  
 56282 85988 81904 28790 76753 94112 43067 95821 10461 17805  
 49308 25989 56418 24662 76282 60934 14612 48486 37316 63838  
 58730 21653 88984 66091 63275 79449 96562 13283 27269 47322  
 14025 83946 61717 46979 58279 79497 33039 82268 82332 08792  
 79636 90785 77065 15762 43801 72137 56311 23548 86129 28806  
 04917 93574 74661 80547 94489 23006 65897 38262 96495 29019  
 19908 48274 47419 93322 16710 42963 45654 65382 66095 58675  
 84823 47759 28115 06862 53210 12024 86381 09374 53994 18673  
 41402 33858 25968 39488 16112 90186 69440 05766 90808 73854  
 06993 30876 09658 67301 33790 80566 25983 35060 37134 89461  
 78499 73711 89933 47183 15699 02545 47799 02555 10565 05892  
 04427 59288 32810 63046 84978 61626 70815 26729 82136 93361  
 20468 36021 64515 38667 83078 74704 12138 78186 39574 10954  
 58632 18811 93138 79317 44868 80589 97501 90908 13701 89199  
 13067 82771 00519 47430 58047 42333 99271 84097 46815 67899  
 08688 03848 32646 51116 88340 86266 97043 92346 79277 07751  
 52833 84890 68877 84572 53213 28997 04642 60560 23952 61588  
 86595 87862 60916 12657 92987 74200 60118 24246 18980 95074  
 72468 92980 33017 94341 10184 00000

**16023/13555/16023/13555 kHz, 13-03, 0025/0035/0125/0135 UTC**

Link ID 00117, Date 13th, Serial #11, Groups 181

11177 00117 25895 13011 01819  
72499 23667 74696 09951 73085 43946 23862 70767 43124 75580  
77377 93207 82071 46112 88710 10790 76933 64984 69978 01435  
94385 52831 82705 26117 88677 49002 71620 48223 32724 54168  
04883 52474 75657 69703 23805 25151 15893 36786 25100 08288  
70150 80715 13394 82360 90702 00040 81199 39912 64793 28756  
04696 89685 98707 85878 05285 72579 17396 99877 36528 40649  
66596 28875 70229 13813 76149 20186 34205 94491 99341 25726  
01415 35773 32074 76818 93727 06470 29163 82859 20347 71655  
46810 51891 81097 39126 26650 54319 87768 73254 35756 59583  
31996 17140 25801 69705 13299 96064 30541 45851 99679 05976  
68189 29546 27671 71868 07866 96185 96617 55630 25982 38616  
61340 96826 42305 07280 23543 07188 74221 21726 36088 70899  
84268 78598 36471 59442 00008 17199 09347 31782 53121 29264  
69699 40951 07233 28716 19121 46073 65224 39646 74629 96787  
52674 71180 66609 05870 46600 62652 41420 10340 40622 72751  
90062 02499 95037 04948 90082 25621 81307 72141 13638 66352  
37265 68022 32482 38572 88773 53908 16552 21256 58899 34701  
10187 53066 18285 43968 51852 90760 07327 07133 76396 11179  
00000

**17416/14502 kHz, 14-03, 2006/2011 UTC, via Cuba**

11166 00139 00000 14001 00059

**13377 kHz, 15-03, 1442 UTC, i.p..**

=7841 937079718218767109  
=8332 89150076875070494  
=8203 04869864950235988  
=8164 45953383536275288  
=8725 730393172865723109  
=8306 74762165099519198  
=8167 510240504343487951  
=8228 90392573692932123  
=8309 270734092913485121  
=88610 82914194125942138  
=88911 768972754662567137  
=84212 724145798083196136  
=77613 65263570386163977  
=80314 958138308729343112  
=86215 74315140606305943  
=87116 71976984573917673  
=79117 096518718631747111  
=85018 23639809651348147  
=82819 285274615026923129  
=84720 263263568964328141  
=78321 931537285881632111  
=86322 84827097524707311  
=80523 593765909105891124  
=75924 071574106929727149  
=85725 58936350705359383  
=88826 83596894255014597  
=86927 769169203830607126  
=78428 34841418130408398  
)57629 00000+++++++172



93707 97182 18767 89150 07687 50704 04869 86495 02359 45953  
38353 62752 73039 31728 65723 74762 16509 95191 51024 05043  
43487 90392 57369 29321 27073 40929 13485 82914 19412 59421  
76897 27546 62567 72414 57980 83196 65263 57038 61639 95813  
83087 29343 74315 14060 63059 71976 98457 39176 09651 87186  
31747 23639 80965 13481 28527 46150 26923 26326 35689 64328  
93153 72858 81632 84827 09752 47073 59376 59091 05891 07157  
41069 29727 58936 35070 53593 83596 89425 50145 76916 92038  
30607 34841 41813 04083 57629 00000

**13529 kHz, 15-03, 1440 UTC**

Serial #4, Groups 211

53963 19537 41756 57323 18620 96480 12302 53246 58059 07313  
13408 08145 13815 86371 16713 63749 46531 82927 56186 28698  
96472 57172 73438 61796 79650 78964 12580 67401 18184 15397  
42381 96415 31297 95219 46924 14160 87536 75021 65979 76832  
71512 54157 19743 64583 71685 38521 38451 37373 32590 74158  
07856 43836 17159 31578 58301 89808 68539 65482 23619 12408  
25358 69759 15213 05037 18637 92453 32738 25736 51464 23072  
17359 02096 65127 36324 93767 87234 76019 65859 46932 56018  
07164 96031 18462 78409 98138 31484 45403 39274 70498 23146  
28340 40763 48197 04563 63164 68968 31624 58424 93101 71054  
13808 15021 61904 93193 82815 26572 03146 95806 97274 46709  
32346 79368 07693 02126 92467 65494 28150 16987 79757 27104  
53710 81872 63785 53267 90658 03936 27896 83935 84929 76521  
89036 97198 40381 87475 05609 60184 30657 86263 81812 78610  
40213 73020 69761 92835 35404 26364 03815 56982 56912 67297  
65185 07210 19654 91360 25195 29181 19207 49050 35680 90232  
43567 01256 45621 91387 63517 41872 25469 12841 96846 47471  
48071 39607 29047 92636 96937 51325 05769 59421 23575 95721  
98612 49763 04165 70906 10723 27597 62072 15763 69717 30369  
85623 76815 90707 84747 89620 84308 19257 47165 26832 86262  
84816 41074 10213 01096 56963 37925 47649 12071 34842 31613  
59452 04211 00000

**13562 kHz, 15-03, 2309 UTC, via Cuba i.p.**

00127 76153 15002 00049

**20700/18726 kHz, 17-03, 2230/2240 UTC, via Cuba**

Link ID 00116, Date 17th, Serial #11, Groups 137

11177 00116 68419 17011 01379  
46929 03033 79499 19420 65956 11437 27339 24449 93832 95439  
49557 39072 72905 04179 36212 53918 87052 79196 36846 67274  
10064 43734 72179 56895 52159 91621 05321 97682 06433 69048  
51297 38092 31874 16385 50126 48562 52691 33152 69446 07437  
90022 69035 58717 06041 30296 09354 36431 91094 56259 17741  
19138 74931 38793 88400 86823 85059 26852 83678 72662 97037  
23517 89416 43548 73350 14570 78993 94645 55606 26992 96553  
86736 02693 08765 24006 85494 68323 62247 04965 46425 16137  
71210 89013 48582 20636 10574 20033 90433 42453 81131 58133  
97544 96721 01377 63910 41186 43477 07453 07299 30279 95208  
35965 63020 74730 16757 88907 80310 36732 21533 82858 08693  
37437 13964 20295 74649 12318 13892 45100 13300 02224 79854  
78600 64375 81093 02643 86708 19816 48501 59706 28950 27281  
77979 88980 52024 37300 15800 11135 00000

F06 – FSK 200/1000

Link 00000

**7954/6792/5452 kHz, 18-03, 1800/1810/1820 UTC**

Link ID 00000, Date 18th, Serial #3, Groups 152

**5922 kHz, 23-03, 1820 UTC**

Block No 0 : Total Message Size 54 blocks : This transmission contains one message.

7d,12,b0,e6,00,00,00,00,60,00,a0,00,10,00,00,00,00,03,20,0c,00,0d,00,0c,10,07,50,0a,b0,00,a0,07,c0,04,d0,08

Block No 1 : Link ID 00000 : 21st of month : Msg Number 162 : Msg Type 07104 : Group Count (?) 111

58176 58457 59417 32399 11239 40295 17136 02176

Link 16404 / 16405

**20386/18215/16061 kHz, 08-03/09-03, 0900/0910/0920 UTC**

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

fd,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 16404 : 22nd of month : Msg Number 027 : Msg Type 07145 : Group Count (?) 74

44404 21571 15354 34239 59836 33945 22323 29470

**17428/15646/12153 kHz, 21-03, 1500/1510/1520 UTC**

Russian diplo/intel. Null msg on link 16404

**20386/18215/16061 kHz, 22-03/23-03, 0900/0910/0920 UTC**

Block No 0 : Total Message Size 36 blocks : This transmission contains one message.

7d,12,b0,e6,00,00,00,00,40,00,60,00,10,00,00,00,00,0a,20,0c,00,02,00,0a,f0,09,00,0c,c0,08,10,0a,70,02,b0,0c

Block No 1 : Link ID 16404 : 21st of month : Msg Number 030 : Msg Type 07145 : Group Count (?) 232

53100 21412 36768 34213 59836 02206 64870 51487

**17428/15646/12153 kHz, 28-03, 1500/1510/1520 UTC**

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

7d,12,b0,e6,00,00,00,00,00,05,40,00,10,00,22,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08

Block No 1 : Link ID 16405 : 28th of month : Msg Number 185 : Msg Type 07145 : Group Count (?) 4

12785 00000 00000 00698 05092 00982 00893 01081

Link 20492

**20138/17428/14983 kHz, 08-03, 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 : 8th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4

06412 00000 00000 02189 31284 33265 00893 08119

**20138/17428/14983 kHz, 22-03, 1015/1025/1035 UTC**

Russian diplo/intel. Null message. Null msg on link 20492

Link 20501

**16359/13986/11523 kHz, 07-03, 1650/1700/1710 UTC**

Russian diplo/intel. Null msg on link 20501

**16245/14356/12138 kHz, 12-03, 1530/1540/1550 UTC**

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

7d,12,b0,e6,00,00,00,00,00,00,00,00,00,00,00,00,10,00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,10

Block No 1 : Link ID 20501 : 12th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4

39180 00000 00000 00957 12857 34561 00893 05106

**16359/13986/11523 kHz, 14-03, 1650/1700/1710 UTC**

Russian diplo/intel. Null msg on link 20501

**16245/14356/12138 kHz, 19-03, 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 : 19th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4

58804 00000 00000 03301 12857 35399 00893 31246

**16359/13986/11523 kHz, 21-03, 1650/1700/1710 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 : 21st of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4

01476 00000 00000 03764 26517 32893 00893 59123

**16359/13986/11523 kHz, 28-03, 1650/1700/1710 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 : 28th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4

39181 00000 00000 00021 12857 35071 00893 07078

Link 32816/32817

**18189/16046/14459 kHz, 01-03/02-03, 0600/0610/0620 UTC**

Block No 0 : Total Message Size 52 blocks : This transmission contains one message.

7d,12,b0,e6,00,00,00,00,00,60,00,60,00,10,00,00,00,00,0b,20,08,00,01,00,0b,70,03,c0,0c,30,0f,e0,06,d0,0d,e0,05

Block No 1 : Link ID 32817 : 25th of month : Msg Number 020 : Msg Type 07145 : Group Count (?) 95

11692 12643 25679 16168 11596 05789 13986 19859

**18189/16046/14459 kHz, 15-03, 0600/0610/0620 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 32816 : 15th of month : Msg Number 045 : Msg Type 07145 : Group Count (?) 4

17940 00000 00000 01228 55757 02965 00893 50391

**18189/16046/14459 kHz, 22-03/23-06, 0600/0610/0620 UTC**

Block No 0 : Total Message Size 62 blocks : This transmission contains one message.

7d,12,b0,e6,00,00,00,00,00,70,00,a0,00,10,00,00,00,00,09,20,02,00,0c,00,0c,e0,0d,f0,03,70,00,f0,01,a0,0a,30,0f

Block No 1 : Link ID 32816 : 18th of month : Msg Number 025 : Msg Type 07145 : Group Count (?) 169

46484 34211 53452 32867 55757 07576 30247 31695

**18189/16046/14459 kHz, 30-06, 0600/0610/0620 UTC**

Block No 0 : Total Message Size 63 blocks : This transmission contains 2 messages.

7d,12,b0,e6,00,00,04,00,72,00,c0,00,20,00,00,00,00,07,20,0b,00,02,00,05,22,05,9f,00,4b,00,c7,08,42,03,29,05

Block No 1 : Link ID 32817 : 25th of month : Msg Number 027 : Msg Type 07145 : Group Count (?) 219

10440 52419 29139 26693 05640 34216 64207 06908

Link 32821

**22913/20374/18046 kHz, 04-03, 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 : 4th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4

34156 00000 00000 00745 13740 32963 00893 02376

**22913/20374/18046 kHz, 11-03, 1500/1510/1520 UTC**

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

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

Block No 1 : Link ID 32821 : 11th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4

34156 00000 00000 02293 13740 33239 00893 26056

**22913/20374/18046 kHz, 18-03, 1500/1510/1520 UTC**

Block No 1 : Link ID 32821 : 18th of month : Msg Number 077 : Msg Type 07145 : Group Count (?) 4

39180 00000 00000 00422 13740 36661 00893 33386

**22913/20374/18046 kHz, 25-03, 1500/1510/1520 UTC**

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

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

Block No 1 : Link ID 32821 : 25th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4

01476 00000 00000 03345 28292 33580 00893 05957

Link 36882

**16343/14367/12172 kHz, 04-03/05-03, 1100/1120/1120 UTC**

Block No 0 : Total Message Size 66 blocks : This transmission contains one message.

7d,12,b0,e6,00,00,00,00,80,00,20,00,10,00,00,00,00,04,20,0f,00,03,00,0e,10,05,f0,06,80,0c,30,01,e0,03,70,04

Block No 1 : Link ID 36882 : 3rd of month : Msg Number 215 : Msg Type 07145 : Group Count (?) 190

13584 44112 63711 37169 43092 06717 30971 30645

**16343/14367/12172 kHz, 11-03/12-03, 1100/1120/1120 UTC**

Block No 0 : Total Message Size 41 blocks : This transmission contains one message.

7d,12,b0,e6,00,00,00,00,50,00,00,00,10,00,00,00,00,0f,20,04,00,05,00,01,90,0e,30,0a,00,0a,d0,01,30,0d,00,0a

Block No 1 : Link ID 36882 : 10th of month : Msg Number 217 : Msg Type 07145 : Group Count (?) 14

18688 46832 10397 38172 48247 40018 60037 28264

**16343/14367/12172 kHz, 18-03/19-03, 1100/1120/1120 UTC**

Block No 0 : Total Message Size 44 blocks : This transmission contains one message.

7d,12,b0,e6,00,00,00,00,50,00,60,00,10,00,00,00,00,02,20,02,00,03,00,0a,a0,03,80,0b,40,0d,90,05,e0,05,10,0d

Block No 1 : Link ID 36882 : 17th of month : Msg Number 220 : Msg Type 07145 : Group Count (?) 40

45772 46352 13119 40087 31234 04483 31186 30321

**16343/14367/12172 kHz, 25-03/26-03, 1100/1120/1120 UTC**

Link ID 36882, Date 24th, Serial #89, Groups 232

Block No 0 : Total Message Size 36 blocks : This transmission contains one message.

7d,12,b0,e6,00,00,00,00,40,00,60,00,10,00,00,00,00,0a,20,0c,00,02,00,0a,f0,09,00,0c,c0,08,10,0a,70,02,b0,0c

Block No 1 : Link ID 36882 : 24th of month : Msg Number 222 : Msg Type 07145 : Group Count (?) 232

56944 47472 17318 38110 31234 32944 07313 23148

Link 45057

**18948/16223/14639 kHz, 11-03/12-03, 1000/1010/1020 UTC**

Block No 0 : Total Message Size 15 blocks : This transmission contains one message.

7d,12,b0,e6,00,00,00,00,10,00,c0,00,10,00,00,00,00,07,20,08,00,0f,00,04,00,0d,c0,0e,50,0c,00,05,40,01,90,01

Block No 1 : Link ID 45057 : 10th of month : Msg Number 232 : Msg Type 07145 : Group Count (?) 90

15628 15159 35231 23898 44730 36147 38439 11727

**18948/16223/14639 kHz, 25-03/26-03, 1000/1010/1020 UTC**

Link ID 45057, Date 10th, Serial #93, Groups 90

Block No 0 : Total Message Size 15 blocks : This transmission contains one message.

7d,12,b0,e6,00,00,00,00,10,00,c0,00,10,00,00,00,00,07,20,08,00,0f,00,04,00,0d,c0,0e,50,0c,00,05,40,01,90,01

Block No 1 : Link ID 45057 : 10th of month : Msg Number 232 : Msg Type 07145 : Group Count (?) 90

15628 15159 35231 23898 44730 36147 38439 11727

Link 45075

**18431/16278/14423 kHz, 01-03, 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 : 1st of month : Msg Number 120 : Msg Type 07145 : Group Count (?) 4

26380 00000 00000 02309 19299 01961 00893 37929

**18038/16344/14563 kHz, 22-03, 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 : 22nd of month : Msg Number 097 : Msg Type 07145 : Group Count (?) 4

13936 00000 00000 00223 26649 33271 00893 28992

**18038/16344/14563 kHz, 29-03, 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 : 29th of month : Msg Number 122 : Msg Type 07145 : Group Count (?) 4

13937 00000 00000 03270 26649 34897 00893 15135

Link 45079

**10249/8137/5948 kHz, 06-03, 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 : 6th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4

34244 00000 00000 00815 48756 35296 00893 36806

**10249/8137/5948 kHz, 20-03, 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 : 20th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4

45464 00000 00000 02931 53317 35532 00893 21843

Link 45114 / 45115

**14378/12217/10349 kHz, 05-03, 0900/0910/0920 UTC**

Block No 0 : Total Message Size 23 blocks : This transmission contains one message.

7d,12,b0,e6,00,00,00,00,00,20,00,c0,00,10,00,00,00,00,0e,20,02,00,0d,00,05,20,08,e0,09,b0,0f,f0,03,b0,0d,10,0d

Block No 1 : Link ID 45114 : 3rd of month : Msg Number 127 : Msg Type 07145 : Group Count (?) 140

03948 63541 45174 26748 57479 36089 47234 63041

**14378/12217/10349 kHz, 11-03/12-03, 0900/0910/0920 UTC**

Block No 0 : Total Message Size 15 blocks : This transmission contains one message.

7d,12,b0,e6,00,00,00,00,10,00,c0,00,10,00,00,00,00,07,20,08,00,0f,00,04,00,0d,c0,0e,50,0c,00,05,40,01,90,01

Block No 1 : Link ID 45114 : 10th of month : Msg Number 130 : Msg Type 07145 : Group Count (?) 92

48740 64661 24629 24967 65008 01991 11754 04500

**14378/12217/10349 kHz, 25-03/26-03, 0900/0910/0920 UTC**

Link ID 45114, Date 24th, Serial #53, Groups 94

Block No 0 : Total Message Size 16 blocks : This transmission contains one message.

7d,12,b0,e6,00,00,00,00,10,00,e0,00,10,00,00,00,00,03,20,05,00,02,00,0d,c0,0b,00,08,b0,01,90,09,90,0f,70,0e

Block No 1 : Link ID 45114 : 24th of month : Msg Number 132 : Msg Type 07145 : Group Count (?) 94

38676 49301 13356 26816 65008 33744 62237 29519

Link 49202

**20961/18553/16264 kHz, 01-03, 1000/1010/1020 UTC**

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

7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,09,00,06,70,03,60,0e,20,0f,90,08

Block No 1 : Link ID 49202 : 1st of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4

50628 00000 00000 04006 34046 35428 00893 48313

**20961/18553/16264 kHz, 08-03, 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 : 8th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4

58712 00000 00000 01640 44300 35192 00893 16066

**20961/18553/16264 kHz, 15-03, 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 : 15th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4

17772 00000 00000 03845 28271 33993 00893 13930

**20961/18553/16264 kHz, 22-03, 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 : 22nd of month : Msg Number 110 : Msg Type 07145 : Group Count (?) 4

12120 00000 00000 02240 28271 01284 00893 23540

**20961/18553/16264 kHz, 29-03, 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 : 29th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4

50629 00000 00000 02890 34046 34655 00893 02919

Link 49237

**16054/13471/11062 kHz, 02-03, 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 : 2nd of month : Msg Number 067 : Msg Type 07145 : Group Count (?) 4

57900 00000 00000 00525 47143 33103 00893 51065

**16054/13471/11062 kHz, 09-03, 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 : 9th of month : Msg Number 045 : Msg Type 07145 : Group Count (?) 4

17496 00000 00000 00044 47143 00368 00893 35274

**16054/13471/11062 kHz, 16-03, 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 : 16th of month : Msg Number 017 : Msg Type 07145 : Group Count (?) 4

63028 00000 00000 02233 39258 33552 00893 03946

**16054/13471/11062 kHz, 23-03, 1330/1340/1350 UTC**

Null message

**16054/13471/11062 kHz, 30-03, 1330/1340/1350 UTC**

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

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

Block No 1 : Link ID 49237 : 30th of month : Msg Number 140 : Msg Type 07145 : Group Count (?) 4

59393 00000 00000 00107 58545 03185 00893 58025

Link 53277

**18563/16314/15723 kHz, 01-03, 1230/1240/1250 UTC**

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

3d,12,b0,e6,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0a,00,06,70,03,70,0e,20,0f,90,08

Block No 1 : Link ID 53277 : 1st of month : Msg Number 002 : Msg Type 05097 : Group Count (?) 4

50452 00000 00000 00437 34541 36765 00893 37234

**18563/16314/15723 kHz, 15-03, 1230/1240/1250 UTC**

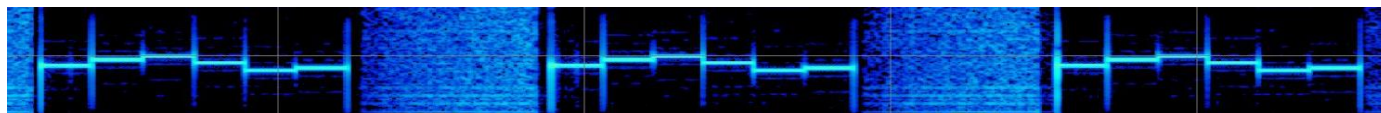
Block No 0 : Total Message Size 4 blocks : This transmission contains one message.

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

Block No 1 : Link ID 53277 : 15th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4

39180 00000 00000 03137 15966 33887 00893 05339

X06 - Mazielka



Code	Freq	Date	UTC	Sequence
X06	11525	1-3	0602	Mazielka. Sequence: 156234
X06	12320	1-3	1104	Mazielka
X06	16115	1-3	1106	Mazielka. Sequence: 215346
X06	10653	10-3	0934	Mazielka. Sequence: 356412
X06	12168	16-3	0632	Mazielka. Sequence: 213546
X06	12219	16-3	0833	Mazielka. Sequence: 162543
X06	12215	17-3	1002	Mazielka. Sequence: 361245
X06	14824	17-3	1025	Mazielka. Sequence: 625413
X06	20323	27-3	0517	Mazielka
X06b	11400	1-3	0811	Mazielka. Sequence: 6--1--
X06b	11400	1-3	0845	Mazielka. Sequence: 6--1-- ends 1033 UTC
X06b	11400	1-3	0930	Mazielka. Sequence: 6--1--
X06b	11400	1-3	1003	Mazielka. Sequence: 6--1--
X06b	16138	5-3	1450	Mazielka. Sequence: 1--6-- during the time that the XPA2 transmitter was on the air
X06b	14438	5-3	1515	Mazielka. Sequence: 1--6-- during the time that the XPA2 transmitter was on the air
X06b	13438	5-3	1535	Mazielka. Sequence: 1--6-- during the time that the XPA2 transmitter was on the air
X06b	18667	11-3	1323	Mazielka. Sequence: 1--6--
X06b	16138	12-3	1407	Mazielka. Sequence: 1--6--
X06b	14438	14-3	1404	Mazielka. Sequence: 1--6--
X06b	16138	14-3	1409	Mazielka. Sequence: 1--6--
X06b	14438	14-3	1417	Mazielka. Sequence: 1--6--
X06b	16138	14-3	1439	Mazielka. Sequence: 1--6--
X06b	9320	17-3	1101	Mazielka. Sequence: 1--6--
X06b	18667	18-3	1326	Mazielka. Sequence: 1--6--
X06b	17419	18-3	1327	Mazielka. Sequence: 1--6--
X06b	17419	18-3	1330	Mazielka. Sequence: 1--6--
X06b	18667	18-3	1333	Mazielka. Sequence: 1--6--
X06b	17419	18-3	1335	Mazielka. Sequence: 1--6--
X06b	18667	18-3	1337	Mazielka. Sequence: 1--6--

Code	Freq	Date	UTC	Sequence
X06b	10112	25-3	0625	Mazielka. Sequence: 1--6-- before E07
X06b	10112	25-3	0629	Mazielka. Sequence: 1--6-- before E07
X06b	18667	25-3	1308	Mazielka. Sequence: 1--6-- before XPA2
X06b	17419	25-3	1309	Mazielka. Sequence: 1--6-- before XPA2
X06b	18667	25-3	1310	Mazielka. Sequence: 1--6-- before XPA2
X06b	18667	25-3	1311	Mazielka. Sequence: 1--6-- before XPA2
X06b	12120	29-3	0903	Mazielka. Sequence 1--6--



XPA

Mode: MFSK-20/10Bd

#### 11409/13509/14609 kHz, 01-03/04-03, 0700/0720/0740 UTC

456 456 456 1 456 456 456 1 456 456 456 1  
05245 00139 98593 48081 33597 32679 12372 87457 68378 09223  
31537 18639 29643 67909 85015 44157 57614 93547 93474 32057  
39958 11866 24562 98600 43290 69301 97788 00811 70453 53934  
37631 16320 93148 34855 16243 77142 28725 76177 05308 27604  
65688 43939 80022 29967 87132 33421 40755 25708 01693 75846  
62848 48721 55740 22465 11496 04994 88021 15234 72821 91274  
01995 87249 13259 56359 68587 74614 49618 53694 22886 37195  
28447 38453 40219 11690 67773 52066 00942 68768 27603 22625  
30332 55321 98841 48796 24723 43854 88497 41567 93888 95343  
46550 28736 33593 88063 08314 74330 56032 84562 89438 84153  
95602 67165 73135 92572 68687 46523 72320 55868 41295 42315  
47913 39217 93048 79605 74380 18418 23687 14505 97855 87494  
84890 07243 23464 00657 58148 69603 49445 44323 48412 86983  
05783 25098 83993 46953 16331 11613 50983 83238 76573 50172  
70614 46640

#### 11409/13509/14609 kHz, 08-03, 0700/0720/0740 UTC

456 456 456 000  
02165 00001 00000 10140

#### 11409/13509/14609 kHz, 11-03, 0700/0720/0740 UTC

456 456 456 000  
03736 00001 00000 10140

#### 11409/13509/14609 kHz, 15-03/18-03, 0700/0720/0740 UTC

456 456 456 1 456 456 456 1 456 456 456 1  
05789 00163 38573 67351 79669 91689 10863 75551 12167 15868  
14967 59006 08372 23748 77842 15395 33418 43900 67048 84931  
48105 50952 16051 77685 10011 70815 98325 26901 74075 71496  
99412 54343 64091 99503 55083 79940 35718 89033 52435 83881  
60235 65491 19246 03372 46719 92738 26520 74756 61335 44097  
18161 64242 50623 19467 28533 40096 29810 00139 30972 58738  
17615 13007 77894 06232 32830 64499 99218 74027 07574 49228  
03737 16141 66918 26785 48622 97487 83135 98584 67596 72821  
83450 41263 26309 91789 77835 06439 49338 99484 99190 05591  
59776 16001 51130 30030 23243 18478 67012 14205 40156 68221  
47936 78564 99915 27268 69688 64536 95220 82557 22044 99394  
77636 64958 29122 10776 10602 82701 74536 10557 45336 18735  
32172 17087 54762 28468 78853 77476 96491 16803 78542 48320  
61077 99804 87117 96592 16338 94675 36564 85213 92082 65929  
44938 25949 74996 19879 70419 70584 04789 44676 59050 52474



03639 83032 44121 18984 94621 88561 72026 93153 60328 72910  
81953 35328 85153 21521 13334 06772

**11409/13509/14609 kHz, 22-03, 0700/0720/0740 UTC**

456 456 456 000

01914 00001 00000 10140

**11409/13509/14609 kHz, 25-03, 0700/0720/0740 UTC**

456 456 456 000

02084 00001 00000 10140

**11409/13509/14609 kHz, 29-03, 0700/0720/0740 UTC**

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

01618 00157 53317 64021 08664 10841 94859 31177 07209 25424  
10742 43801 84947 46061 61965 20382 59509 85527 63031 40593  
75795 78992 16818 62934 85438 17024 55615 30580 06442 77972  
38803 87792 28393 68289 27893 09117 21373 97427 52151 40388  
40350 64828 79715 98745 31999 33015 95693 56833 08000 95357  
29217 21447 24065 20936 20435 66002 00864 84521 40182 39763  
74174 88003 36821 90868 16358 71707 06093 06476 49866 58444  
02129 29005 30270 99467 79570 00897 03290 20902 09698 70177  
41570 09672 20922 54182 47676 03283 81655 37534 83509 78398  
89465 70658 34909 45548 04956 80543 49840 66195 40331 49014  
50276 81767 57127 33901 17867 06803 84938 04130 05760 95367  
59931 33132 81403 63564 39037 79515 14215 99098 70512 08052  
35841 30234 98280 23275 16988 71079 40422 56110 66542 89860  
12172 53802 70930 01745 49394 00522 84582 93418 51844 91758  
93659 30990 65279 45279 71724 28308 02282 86372 41809 05858  
46894 17313 17673 69838 14250 58105 11370 64681 25007 27252



**XPA2**

Mode: MFSK-16/20Bd

**15956/14956/13956 kHz, 01-03, 0800/0820/0840 UTC**

08624 00149 94771 05505 15850 18695 48682 90333 60951 39289  
96919 81830 76809 93287 55540 52152 15940 78785 67739 49441  
17883 11046 52748 71643 73908 32813 02031 41327 21390 76250  
95660 04481 60633 73358 96637 39035 81319 09073 54948 06097  
58023 38576 70830 32072 78660 02641 47022 66525 18227 78669  
52903 77352 83966 83645 17685 77745 07330 67264 03369 37605  
99397 25000 88944 40950 20491 95113 12786 89419 15640 98153  
83448 27607 50679 09227 05272 85385 69509 80842 98639 30375  
10030 09605 85788 66615 22994 23070 82076 66978 14231 55121  
28801 97471 90084 71344 77613 01628 29358 00430 49167 23113  
90412 99025 44624 59463 41607 80463 70790 08697 56367 17687  
55492 44852 65932 85068 16502 17127 70732 62425 60453 24209  
39567 99787 02235 10858 89014 14073 92808 39207 96652 70730  
16111 22420 87732 96162 53197 18320 77625 71721 94232 99075  
12096 33140 70990 29087 24599 96020 88476 32180 67201 84114  
53433 06047

**13431/14631/15931 kHz, 03-03, 0700/0720/0740 UTC**

04210 00001 00000 10140

**18667/17419/16212 kHz, 03-03/04-03, 1400/1420/1440 UTC**

07106 00073 77993 48218 20837 67330 47480 26262 45651 72363  
62535 25923 46480 51417 21117 54203 63956 84360 77327 01788  
59242 62542 01781 48370 36780 40808 13643 90275 05243 02829  
46743 17566 11617 53109 78608 50432 33197 36338 14934 55236  
06314 60766 15660 75038 77779 76148 85386 55112 10942 54910  
08154 22280 34371 25796 40972 23554 00304 13264 51519 85602  
01664 03205 66886 88004 35386 33533 77571 36857 31471 53340  
71001 82333 06783 87331 76720 64434

**16138/14438/13438 kHz, 05-03, 1500/1620/1540 UTC**

02986 00001 00000 10140

**15956/14956/13956 kHz, 06-03, 0800/0820/0840 UTC**

05316 00001 00000 10140

**13431/14631/15931 kHz, 07-03/10-03, 0700/0720/0740 UTC**

00542 00079 98569 13052 14011 27554 46485 11001 32586 16099  
01715 99934 99694 81320 51468 20205 51211 72001 06265 83192  
47855 40800 06616 85012 92698 66771 88798 17236 62422 54420  
46200 29128 36334 28596 76234 70528 93623 38788 38881 28180  
09561 82096 83479 52530 32041 55831 68711 94175 16604 44892  
46077 84571 80415 62011 88366 47334 93202 41011 32076 07135  
33533 38794 14756 33325 06566 92651 29443 40518 89353 88188  
00573 04461 82282 70394 11438 52774 82245 38857 94330 94954  
40329 24510

**16138/14438/13438 kHz, 07-03, 1500/1620/1540 UTC**

05221 00001 00000 10140

**15956/14956/13956 kHz, 08-03, 0800/0820/0840 UTC**

04767 00001 00000 10140

**18667/17419/16212 kHz, 10-03, 1400/1420/1440 UTC**

03709 00001 00000 10140

**18667/17419/16212 kHz, 11-03, 1400/1420/1440 UTC**

05133 00001 00000 10140

**16138/14438/13438 kHz, 12-03/14-03, 1500/1620/1540 UTC**

02814 00081 87924 30340 77426 50239 94248 18665 35583 39770  
49684 90195 11729 26841 52831 47245 53444 98446 37053 77576  
04851 27921 05784 84791 80164 47460 08040 28956 91696 66775  
48396 79163 91320 96134 58711 05672 55321 28562 97440 79941  
70008 36829 20131 98692 58305 91536 13916 58637 85487 49225  
04839 38627 01707 24259 32748 77494 61219 59714 74309 76339  
88169 05160 67625 66179 40423 36155 70818 97877 32875 15618  
80337 37799 62825 62556 17322 34255 94967 39380 16827 88641  
40996 00055 37971 47157

**15956/14956/13956 kHz, 13-03/15-03, 0800/0820/0840 UTC**

07702 00131 77142 07738 42565 57515 24747 61447 44529 93516  
78267 34859 96035 55087 87544 66938 78597 22824 31499 72644  
60727 43391 51524 13503 10006 33871 53271 91301 88846 37735  
83750 99552 50376 00195 09546 72261 49345 50622 30928 14073  
19044 41222 20490 36021 56515 92118 37400 07640 46312 01982  
32865 94808 71281 03614 10438 82558 26287 22283 00470 89418  
02296 62813 07015 37745 59975 46892 23035 75624 77328 97579  
50241 84057 29683 76442 06225 66041 71345 11166 30394 36395  
34482 34856 83099 97069 59946 97372 54394 01917 59487 51428

14558 03861 29396 04857 84702 75256 13546 03745 80867 54947  
15866 86673 09272 02372 47483 42012 59171 84300 75982 92210  
59048 13310 71580 87921 71109 18755 15220 10104 74349 52230  
83881 11001 91300 27909 31240 13606 14667 93560 34007 30895  
59054 30678 08712 75530

**13431/14631/15931 kHz, 14-03, 0700/0720/0740 UTC**

02016 00001 00000 10140

**13431/14631/15931 kHz, 17-03, 0700/0720/0740 UTC**

03378 00001 00000 10140

**18667/17419/16212 kHz, 17-03/18-03, 1400/1420/1440 UTC**

00627 00085 13487 63253 39915 56050 36848 97036 45611 92525  
06155 37741 49644 41738 84558 06879 85638 25194 33778 09196  
82899 93954 43244 30079 32478 03243 70099 73077 51229 08929  
25746 66952 14494 56704 38817 35894 45158 59688 93358 83490  
39516 84730 49784 10012 04441 15648 57172 51473 61157 92493  
63799 89719 02543 95092 41527 56456 10000 76529 93177 98766  
31123 33922 13115 29453 64706 11314 36826 71305 24830 79564  
14442 24956 33259 06214 69912 82669 71868 12721 45931 99523  
18907 57284 13768 23039 36281 56561 50555 04640

**16138/14438/13438 kHz, 19-03, 1500/1620/1540 UTC**

04922 00001 00000 10140

**15956/14956/13956 kHz, 20-03, 0800/0820/0840 UTC**

01361 00001 00000 10140

**13431/14631/15931 kHz, 21-03/24-03, 0700/0720/0740 UTC**

06462 00161 07084 39176 74983 88405 35180 37482 78891 74059  
11056 76991 16697 70859 90951 16121 36179 49228 18559 86864  
45695 27380 84267 65057 59636 13970 64371 26659 71375 23490  
45235 83078 25039 55053 97125 03791 24239 06252 27638 69899  
67557 94940 13657 07672 67751 76471 79388 58977 79803 77368  
35802 07408 68822 81218 86000 11368 82320 30868 11896 71101  
08107 69127 68628 69815 84185 82315 68881 92982 23315 99318  
09611 77080 31177 43039 83325 54861 07559 71764 45562 62718  
19261 82858 22737 01566 46846 23848 98053 06816 61893 33880  
55331 45238 49801 62682 70149 59858 55826 67212 06692 05822  
54864 82128 31922 61195 55652 61381 24348 30068 29212 84280  
24383 24269 46505 82196 18587 08557 55818 38499 00175 62785  
33427 33165 77209 58832 72467 00736 15341 22276 24930 73301  
17949 19535 06693 27302 54306 95543 16046 15794 51557 77832  
55013 02252 23797 74113 02849 78613 25878 33889 89167 11237  
80296 42127 86618 91537 43229 24175 19290 41130 27322 19864  
97019 79491 64782 11373

**16138/14438/13438 kHz, 21-03, 1500/1620/1540 UTC**

05161 00001 00000 10140

**15956/14956/13956 kHz, 22-03, 0800/0820/0840 UTC**

08099 00001 00000 10140

**18667/17419/16212 kHz, 24-03, 1400/1420/1440 UTC**

05090 00001 00000 10140

**18667/17419/16212 kHz, 25-03, 1400/1420/1440 UTC**

09048 00001 00000 10140

**16138/14438/13438 kHz, 26-03/28-03, 1500/1620/1540 UTC**

05056 00095 01240 11700 08908 26868 99871 64253 86670 71391  
06939 97095 00918 68167 58870 45259 35833 47636 91592 18606  
35163 33661 85170 73581 84114 37403 59350 87651 37924 85414  
30992 28464 08512 19551 17310 42016 28897 01205 65349 51594  
82667 83481 71579 81276 37931 10406 52988 20874 20922 64510  
50324 33670 88885 48079 39191 73914 76484 75496 95469 62914  
17612 10946 81929 81577 55127 01732 26777 72247 73066 38583  
39112 33116 97093 88661 18333 88511 30645 03346 37707 78331  
00635 45204 43194 49882 99250 04140 30071 33555 46380 27299  
13704 96844 42169 63847 64244 64702 22290 60724

**15956/14956/13956 kHz, 27-03/29-03, 0800/0820/0840 UTC**

07509 00105 62440 03355 69937 98128 11928 11582 53108 73964  
07039 54174 39049 55486 23985 49363 33151 91873 53616 34423  
35010 59816 15538 18001 87466 07787 77293 83487 07731 19938  
07553 90773 46879 86169 35972 13103 35489 15013 33090 13278  
27967 24594 43235 31479 33529 84889 90142 00466 57899 68578  
16582 55412 63809 33842 69891 72742 42956 43938 60368 43770  
52058 04592 38210 96022 88557 13762 02861 32738 22418 46366  
62484 09288 35373 23066 40431 61531 46538 51827 12237 45177  
52825 34616 33255 97502 82364 27159 43869 49267 97785 26846  
71342 76929 64764 18287 02081 36608 99790 44653 30032 23359  
02592 08625 08634 60623 97338 70445 30454 23410

**13431/14631/15931 kHz, 28-03, 0700/0720/0740 UTC**

07599 00001 00000 10140

**13431/14631/15931 kHz, 31-03, 0700/0720/0740 UTC**

01645 00001 00000 10140

**18667/17419/16212 kHz, 31-03, 1400/1420/1440 UTC**

04806 00001 00000 10140



**F11**

Mode: FSK 100/620

**6906 kHz, 06-03/09-03, 0800/0805 UTC**

0434 0434 0434 0434 0434  
88888 88888 93143 36577 78798 49830 29660 31431 14062 64133  
67902 30377 77211 89241 29733 83477 37341 57249 65738 25660  
76589 32049 49080 66576 96933 91614 81995 98594 01235 75152  
49316 43594 04985 76323 40127 35934 94268 64478 88888 88888  
00040 00040

**14753 kHz, 14-03/16-03, 0730/0735 UTC**

0433 0433 0433 0433 0433  
88888 88888 43281 93312 10178 40947 89083 70249 61199 14002  
38524 93070 63656 56156 22678 44682 93925 63614 50825 82486  
95498 60063 21724 28299 80144 64569 74566 02932 17961 58532  
85069 16351 92526 07550 90890 50584 93329 88888 88888  
00039 00039

**7371 kHz, 14-03/17-03, 0900/0905 UTC**

0554 0554 0554 0554 0554  
88888 88888 30904 32658 59964 72606 26612 04991 67296 06773  
32511 61675 33263 94207 54542 68162 25236 20986 88585 68374  
36534 51772 34815 36404 66109 30335 05164 67817 00062 44730  
57551 25394 58397 90868 18165 21380 72764 21852 47242 74932  
47031 88888 88888  
00043 00043

**16005 kHz, 15-03/17-03, 0530/0535 UTC**

0453 0453 0453 0453 0453  
88888 88888 45462 56964 77708 56131 88867 52852 03765 67111  
19825 94613 72374 91677 25790 79830 85690 89167 40474 52997  
77163 75736 94784 63242 10821 99877 51619 76040 03405 56184  
65079 62648 61083 88888 88888  
00035 00035

**7371 kHz, 20-03/23-03, 0515/0520 UTC**

0446 0446 0446 0446 0446  
88888 88888 16411 43516 11394 21659 53181 59960 23927 01816  
68479 91923 24198 46007 64078 35640 84194 72820 93541 47731  
99408 16096 99727 01344 58073 24292 10527 33662 61736 92990  
57132 48624 17693 71551 40332 94478 94791 88888 88888  
00039 0009

**9339 kHz, 20-03/22-03, 0845/0850 UTC**

0353 0353 0353 0353 0353  
88888 88888 37557 57984 62195 63160 83568 24919 11365 56162  
35642 83765 19558 43027 46023 32952 00940 80614 11401 97084  
66229 17810 79201 79485 20152 50044 46211 21041 55694 17695  
87797 89053 13983 03543 65136 26410 11827 08028 67506 26767  
88888 88888  
00042 00042

**10728 kHz, 21-03/23-03, 0630/0635 UTC**

0574 0574 0574 0574 0574  
88888 88888 43934 37883 35660 15582 70733 27779 26529 96720  
61703 62320 76873 38020 72319 49582 66631 05600 19699 99065  
24911 39833 29149 19135 72682 57591 70644 14597 17402 64518  
39424 82464 14675 48174 17199 39255 94577 88888 88888  
00039 00039

**9052 kHz, 28-03/31-03, 0655/0700 UTC**

0684 0684 0684 0684 0684  
88888 88888 59851 22429 70189 00724 52346 56024 24612 51333  
83218 22437 78164 37974 35142 25155 85719 39362 45462 06662  
80646 45839 24494 30955 21895 18354 95875 81311 77315 54405  
20267 14663 15927 99547 12519 95543 93299 11942 83939 18518  
88888 88888  
00042 00042

**9079 kHz, 28-03, 1150/1155 UTC**

0325 0325 0325 0325 0325  
88888 88888 92384 85974 89227 28266 90644 45908 04384 14115  
09502 56380 94201 36192 33491 91639 88619 57215 11937 11043  
07369 43690 21823 94651 01835 41896 85701 17388 36692 76394  
43925 55260 61614 66596 78439 20233 58812 01778 79581 17973  
37810 32808 88888 88888  
00044 00044

Note:

Should repeat on 29-03 but sent a null message instead.

E11a transmitted the same message on both 28 and 29-03.

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## Q26 - Chinese military

Mode: 4+4 QPSK 75/3000 LSB

### **9197.5 kHz, 08-03, 2349 UTC**

QFXK QFXK QFXK DE GHUA GHUA GHUA QSL 0748

QFXK QFXK QFXK DE GHUA GHUA GHUA QSL 0748

JYJYJYJY HR MSG GA PSE CY

0261 91 18 0309 0745

3187---5738

0080 4088 7002 4749 1106 7162 1115 5044 1115 3734

6490 4418 7594 8330 3609 1032 9975 1005 4430 5953

1100 2761 6303 0716 9088 4475 3940 0117 1533 7033

9440 8706 4746 9475 4049 2179 0886 0050 0111 4876

8088 6233 9397 5011 0939 9262 3464 7150 6708 1124

1100 0407 6369 1449 2721 4468 1997 9099 1988 3050

3232 4479 6114 4033 1272 7108 1708 7400 1403 1606

1105 5240 6068 4093 6360 3111 0118 5650 8336 5689

4644 7160 5011 3379 6160 7371 5948 1113 0033 8606

5595

QSL +

QFXK QFXK QFXK DE GHUA GHUA GHUA QSL 0748

QFXK QFXK QFXK DE GHUA GHUA GHUA QSL 0748

JYJYJYJY HR MSG GA PSE CY

0261 91 18 0309 0745

3187---5738

0080 4088 7002 4749 1106 7162 1115 5044 1115 3734

6490 4418 7594 8330 3609 1032 9975 1005 4430 5953

1100 2761 6303 0716 9088 4475 3940 0117 1533 7033

9440 8706 4746 9475 4049 2179 0886 0050 0111 4876

8088 6233 9397 5011 0939 9262 3464 7150 6708 1124

1100 0407 6369 1449 2721 4468 1997 9099 1988 3050

3232 4479 6114 4033 1272 7108 1708 7400 1403 1606

1105 5240 6068 4093 6360 3111 0118 5650 8336 5689

4644 7160 5011 3379 6160 7371 5948 1113 0033 8606

5595

QSL +

QFXK QFXK QFXK DE GHUA GHUA GHUA QSL 0748

QFXK QFXK QFXK DE GHUA GHUA GHUA QSL 0748

JYJYJYJY HR MSG GA PSE CY

0261 91 18 0309 0745

3187---5738

0080 4088 7002 4749 1106 7162 1115 5044 1115 3734

6490 4418 7594 8330 3609 1032 9975 1005 4430 5953

1100 2761 6303 0716 9088 4475 3940 0117 1533 7033

9440 8706 4746 9475 4049 2179 0886 0050 0111 4876

8088 6233 9397 5011 0939 9262 3464 7150 6708 1124

1100 0407 6369 1449 2721 4468 1997 9099 1988 3050

3232 4479 6114 4033 1272 7108 1708 7400 1403 1606  
1105 5240 6068 4093 6360 3111 0118 5650 8336 5689  
4644 7160 5011 3379 6160 7371 5948 1113 0033 8606  
5595  
QSL +

QFXK QFXK QFXK DE GHUA GHUA GHUA QSL 0748  
QFXK QFXK QFXK DE GHUA GHUA GHUA QSL 0748  
JYJYJYJY HR MSG GA PSE CY  
0261 91 18 0309 0745

3187---5738  
0080 4088 7002 4749 1106 7162 1115 5044 1115 3734  
6490 4418 7594 8330 3609 1032 9975 1005 4430 5953  
1100 2761 6303 0716 9088 4475 3940 0117 1533 7033  
9440 8706 4746 9475 4049 2179 0886 0050 0111 4876  
8088 6233 9397 5011 0939 9262 3464 7150 6708 1124  
1100 0407 6369 1449 2721 4468 1997 9099 1988 3050  
3232 4479 6114 4033 1272 7108 1708 7400 1403 1606  
1105 5240 6068 4093 6360 3111 0118 5650 8336 5689  
4644 7160 5011 3379 6160 7371 5948 1113 0033 8606  
5595  
QSL +



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

4153, 4231.5, 4291, 6250, 6417, 6445, 8313, 8508, 8703.5 kHz, 19-03, 2002 UTC, QPSK 1500Bd  
4153, 4231.5, 4291, 6250, 6417, 6445, 8313, 8508, 8703.5 kHz, 26-03, 1512 UTC, QPSK 1500Bd  
4153, 4231.5, 4291, 6250, 6417, 6445, 8313, 8508, 8703.5 kHz, 31-03, 1327 UTC, QPSK 1500Bd



XSL's huge transmitter site at Ichihara, Japan at 35°26'46"N 140°10'52"E



The Google Earth kml file can be found on the N&O website.

See also

<https://www.google.nl/maps/place/35%C2%B026'46.0%22N+140%C2%B010'52.0%22E/@35.4465732,140.1868814,3a,75y,337.27h,87.89t,-0.85r/data=!3m6!1e1!3m4!1sKF1xo8AfyhdJTJ6wpASksg!2e0!7i13312!8i6656!4m5!3m4!1s0x0:0x0!8m2!3d35.4461111!4d140.1811111>

<https://www.google.nl/maps/@35.4430755,140.1822382,3a,75y,83.12h,81.1t,1.96r/data=!3m6!1e1!3m4!1sJyyXfzJfsqP7BOCnE MjJaw!2e0!7i13312!8i6656>

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## DIPLOMATIC STATIONS



### Egyptian diplomatic stations

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

16067.7 kHz, 12-3, 1354 UTC, SITOR-A 100/170

16010 kHz, 21-3, 1445 UTC, SITOR-A 100/170

9065.7 kHz, 28-3, 1615 UTC, SITOR-A 100/170

16223.7 kHz, 31-3, 1355 UTC, SITOR-A 100/170

MFA Cairo, msg to Egyptian embassy Washington

MFA Cairo clg TVXS Egyptian embassy Manama

MFA Cairo clg OOVC: Egyptian Embassy New Delhi

Egyptian diplo

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## UTILITY ROUND-UP



### Japan Maritime Self-Defense Force

海上自衛隊 Kaijō Jieitai

6775 kHz, 07-03, 0606 UTC, CW

6692.5 kHz, 28-03, 0504 UTC, CW

Japanese Air Force: JJT33

Japanese Air Force: JJX5

VVV DE JJT33 VVV DE JJT33 AR

JJX5 DE JF19 QAL ÇZ 1412 CL K



### Pirates

6398.5 kHz, 05-03, 1603 UTC, CW

“Common & Precious JO62SK 52W Dipole”



### Unid stations

A **LOT** of them this month, logged by JPL and André. All heard via remote radio's in New Zealand and Japan.

3783 kHz, 23-03, 1906 UTC, CW: 8CP K (sent 1x per minute for at least 5 minutes)



Unid stations copied by André in Japan. Most of them probably originate from countries in S.E. Asia like China, Japan, North & South Korea. Info about these stations is highly appreciated.

#### 4037 kHz, 08-03, 0919 UTC, CW

PG8 QSA ?	DE PT5 QSA 1	DE PXG QSA 1 ?	PT5 OK QRU	PER OK QRU
PG8 QSA 3	P4M QSA ?	+ QSA 1 QRU	+ PHK QSA ?	PRP DE PJM QSA ?
+ QSA 1 QRU	DE P4M QSA 1	PXG QRU	VVV DE PHK QSA	PRP DE PJM QSA ?
P8F QSA ? K	+ QSA2 QRU	+ PGQ QSA ?	3 ?	VVVV P6C QSA ?
PZL QSA 2 K	PC6 QSA ?	DE PGQ QSA 1 ?	+ QSA 1 OK QRU	PJM QSA 1 ?
+ QSA 1 QRU K	VVV PC6 QSA 1 ?	+ QSA 1 QRU	PHK QRU	P6C QSA 1
VV PCB QSA ? K	+ QS1 QRU	PGQ QRU	+ PV1 QSA ?	OK QRU
PCB QSA 2 ? K	PC6 OK QRU	+ P6C QSA ?	DE PPN QSA 1	P6C OK QRU
+ QSA2 OK QRU	+ P3X QSA ?	+ PPN QSA ?	DE PPN QSA 1 ?	P5T QSA 1 ?
PCB OK QRU	DE P3X QSA 1 ?	+ PPN QSA ?	DE PPN QSA 1	PRP DE PJM QSA ?
PZL QSA ?	+ QSA 1 OK QRU	+ PT5 QSA ?	DE PER QSA 1 ?	VVV PRP DE PJM
PZL QSA ,	P3X OK QRU	DE PT5 QSA 1 ?	DE PER QSA 5	QSA ?
P5T QSA ?	+ PXG QSA ?	+ QSA 1 QRU	+ OK QRU	

#### 4037 kHz, 08-03, 0933 UTC, CW

VVV PRP DE PJM QSA ?  
VVV PRP DE PJM QSM VA VA

#### Notes:

Simplex net

Net Control: PJM

Collective Callsign: PRP

Outstations: PG8, P8F, PZL, PC6, P5T, P4M, P3X, PXG, PGQ, P6C, PPN, PT5, PHK, PVN, PP1, PEN, PPR, P5T

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#### 3201 kHz, 05-03, CW

1716 UTC	TE2Y DE F2JK K
	TE2Y DE F2JK QSL QSL 0116 0116 K
	TE2Y DE F2JK NIL SK
	TE2Y DE F2JK GB
	TE2Y DE 5KYE K
	TE2Y DE 5KYE QSL QSL 0116 QSL 0119 0119
	TE2Y DE 5KYE NIL SK
	TE2Y DE 5KYE GB
	VVV TE2Y DE 2TEW K
	TE2Y DE 2TEW OK QSL QSL 0119 0119 K
	TE2Y DE 2TEW NIL SK
	TE2Y DE 2TEW GB
	VVV TE2Y DE JKH2 K
	TE2Y DE JKH2 QSL QSL 0120 0120 K
	TE2Y DE JKH2 NIL SK
	TE2Y DE JKH2 GB
1721 UTC	TE2Y DE RE2W K
	TE2Y DE RE2W QSL QSL 0121 0121 K
	TE2Y DE RE2W NIL SK
	TE2Y DE RE2W GB

#### 3201 kHz, 09-03, 1724 UTC, CW

VVV TE2Y DE JKH2 K  
TE2Y DE JKH2 QSL QSL 0125 0125 K  
TE2Y DE JKH2 NIL SK  
TE2Y DE JKH2 GB

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**4160 kHz, 05-03, 1904 UTC, CW**

VV CV6L K  
VV CV6L K  
... QSA ....  
6DYE QSA 2 NIL VA  
VV ND8P K  
VV ND8P K  
VV CB6S K  
VV CB6S K  
VV FJE8 K  
VV FJE8 K  
VV CB6S K  
VV CB6S K  
VV FJE8 K  
VV FJE8 K  
VV ND8P K  
VV ND8P K  
KE9W DE 6DYE VV  
KE9W DE 6DYE VV  
KE9W DE 6DYE CQLL CQLL K  
KE9W DE 6DYE CQLL CQLL K  
KE9W DE 6DYE CCK LL K  
KE9W DE 6DYE CCK LL K

**3665 kHz, 05-03, 1930 UTC, CW**

VVV VVV CQ DE J86 QSA ? 86565 86565 K

**Unid Chinese net on 4433 kHz / QSX 3839 kHz, 08-03, 1438 UTC, CW**

Message in progress  
R MSG GA  
**Ostn** RMKS 5523 TO 2147 K  
R R K  
**Ostn**: AA = 77A6 NDAN D454 AU3A N4AD U3AD A3NA ... / .. AR K  
R RPT 22 W K  
**Ostn**: R RPT 22 W = UUB ? UU64 K  
R QSL 2248 K  
**Ostn**: R R  
R SK  
**Ostn**: R SK

**5429 kHz, 08-03, 1415 UTC, CW**

VVV EHA DE 3BK  
VVV EHA DE 3BK  
VVV EHA DE 3BK  
VVV EHA DE 3BK QSV K  
RRR DE NDH ZNN VA

**4631 kHz, 09-03, CW, i.p. Duplex net**

1930 UTC      QSL 0228 K  
                NIL SK GB  
                VV 9504 DE R464 K  
                VV 9764 DE R464 K  
                VV 2487 DE R464 K  
                R464 R QSA 1 = 1546 AR  
                R464 R QSL ? K  
                R464 OK QSL 0245 ?  
                R464 OK HR NR205 K  
                R464 R NIL SK GB  
                VV 2392 DE R464 K  
                R464 R QSA 1 = 1546 AR

R464 QSL ? K  
 R464 R QSL 0315 ? K  
 R464 R QSL 0255 ? K  
 R464 QSL 0255 ? K  
 R464 QSL 0250  
 R464 R NIL SK GB  
 1941 UTC VV 9730 DE R464 K  
 R464 E QSA 2 = 1546 K  
 R464R NILSK GB  
 1948 UTC VV 9201 DE R464 K  
 VV 2474 DE R464 K  
 VV 9201 DE R464 K

**4798 kHz, 09-03, 1940 UTC, CW**

VVV 7N4 de 9JC QRU VVV 7N4 de 9JC QRU SK

**3145 kHz, 10-03, 1450 UTC, CW**

P6EZ DE P6E3 QSA ? K

P6EZ DE P6E3 QSA ? K

**3758 kHz, 10-03, 1540 UTC, CW**

VVV 3BN (x3) DE 9L4 (x2) QRU

VVV 3BN (x3) DE 9L4 (x2) QRU

**5120 kHz, 11-03, 0804 UTC, CW. Simplex net**

H731 comms checks with H791 and H611

CP de H731 ? ?

SK

**5071 kHz, 11-03, 0915-0930 UTC, CW**

VVV W92 (x3) DE WGF (x2) QSA ? K

VVV W92 (x3) DE WGF (x2) QSA ? K

WGF DE WHQ QSA 2 QSA ? K

WR2 QSA 3 QSA ? K

VVV WGF (x3) DE WR2 (x2) QSA 2 QSA ? K

VVV WGF (x3) DE WR2 (x2) QSA 2 QSA ? K

WGF DE WHQ QSA 2 QSA ? K

WHQ DE WGF QSA 3 K

WGF DE WYU QSA 2 3588 3588 ? K

WGF DE WHQ QSA 2 QSA ? K

WHQ DE WGF QSA 2 3512 K

VVV WGF DE WYU QSA ? K

WYU DE WGF QSA 5 K

VVV W85 (x3) DE WGF (x2) QSA ? K

VVV W92 (x3) DE WGF (x2) QSA ? K

VVV W92 (x3) DE WGF (x2) QSA ? 3591 3591 VA

**3616.5 kHz, 11-03, 1921 UTC, CW, i.p.**

W8D QSA 3 QSA ? K

+ QSA 4 QRU K

98H QSA 55 QRU K

CQ CQ CQ QRO QRO QLK QLK

VVV NO QRO K

87O DE KSB VVV

87O DE KSB K K

VVV NO NO QRO QRO K

1928z:

VVV 87O (x2) DE OHG (x3) K K

VVV NO NO QUH QUH K

VVV CQ CQ DE DMN QRO QRO K  
VVV DMN DE 2FB QSA 3 15... K  
DMN VVV 2FB QSA 55 QRU QRU  
2FB OK QRU  
DMN OK OK K

1933z:

VVV CQ CQ SK SK K

**3885 kHz, 13-03, 1842 UTC**

VVV 7N4 (x2) DE 9JC (x2) QRU

VVV 7N4 (x2) DE 9JC (x2) QRU 1595 1595 SK SK

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**3349.5 kHz, 11-03, 1901 UTC, CW, i.p.**

VVV VVV RWG (x3) DE 1437 (x2) QSA ? ?

VVV VVV RWG (x3) DE 1437 (x2) QSA ? ? 555 ÉÉ 65380 65380

VVV VVV RWG (x3) DE 1437 (x2) QSA ? ? 555 ÉÉ 65380 65380

VVV VVV RWG (x3) DE 1437 (x2) QSA ? ? 555 ÉÉ 65380 65380

**3349.5 kHz, 11-03, 1901 UTC, CW**

VVV VVV RWG (x3) DE 1437 (x2) QSA ? ? 555 ÉÉ 65380 65380

**3374.2 kHz, 13-03, 1737 UTC, CW**

VVV RWG (x3) DE 3129 (x2) QSL LV 75387 75387 VVV

QTC NR 0114 10 03 14 0135 0023129 =

75556 43275 92395 19134 34571 54787 57843 67345 43289 49356

**3345.5 kHz, 13-03, 1809 UTC, CW**

VVV RWG (x2) DE 2131 (x3) QSA ? 10266 102666

QTC QTC 0421 20 03 14 0205 0022131 =

86060 15875 23234 55410 98562 53260 23698 63258 20124 10235

13465 46286 85485 11585 95159 14687 85201 45623 32015 51208 K

**3197 kHz, 25-03, 1810-1920 UTC, CW**

VVV RWG RWG RWG DE 1437 1437 QTR 2340 QSA ? 24698 24698 K

VVV RWG RWG RWG DE 1437 1437 QTR 2340 QSA ? 24698 24698 K

VVV RWG RWG RWG DE 1437 1437 QTR 2340 QSA ? 24698 24698 K

VVV RWG RWG RWG DE 1437 1437 QTR 2340 QSA ? 24698 24698 K

1832z:

VVV RWG RWG RWG DE 1437 1437 QTR 2340 QSA ? 24698 24698 K

VVV RWG RWG RWG DE 1437 1437 QTR 2340 QSA ? 24698 24698 K

VVV RWG RWG RWG DE 1437 1437 QTR 2340 QSA ? 24698 24698 K

1920z:

VVV RWG RWG RWG DE 1437 1437 QTR 2340 QSA ? 24698 24698 K

VVV RWG RWG RWG DE 1437 1437 QTR 2340 QSA ? 24698 24698 K

VVV RWG RWG RWG DE 1437 1437 QTR 2340 QSA ? 24698 24698 K

**3170 kHz, 26-03. 1748-1756 UTC, CW**

VVV A46 (x3) DE KVI (x2) ZYT 5 AAA 05 02145 02145

VVV A46 (x3) DE KVI (x2) ZYT 5 AAA 05 02145 02145 K K

1750z:

VVV 99T (x3) DE KVI (x2) ZYT 5 AAA 05 32504 32504

VVV 99T (x3) DE KVI (x2) ZYT 5 AAA 05 32504 32504 K

1751z:

VVV CGN (x3) DE KVI (x2) ZYT 5 ZYT 5 14028 14028  
VVV CGN (x3) DE KVI (x2) ZYT 5 ZYT 5 14028 14028  
VVV CGN (x3) DE KVI (x2) ZYT 5 ZYT 5 14028 14028 K K

1753z:

VVV XXR (x3) DE KVI (x2) ZYT 5 AAA 05 20416 20416  
VVV XXR (x3) DE KVI (x2) ZYT 5 AAA 05 20416 20416  
VVV XXR (x3) DE KVI (x2) ZYT 5 ZYT 5 20416 20416 K K

1755z:

VVV OLT (x3) DE KVI (x2) ZYT 5 ZYT 5 12089 12089  
VVV OLT (x3) DE KVI (x2) ZYT 5 ZYT 5 12089 12089  
VVV OLT (x3) DE KVI (x2) ZYT 5 ZYT 5 12089 12089 K K

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Note the use of ABV by this net. The only station I know that is using ABV is M41.

**3214.8 kHz, 07-03, 1342 UTC, CW, i.p. Looking at the time stamps it is possibly from North Korea**

NR 0414 20 03 07 2225 001 1301 = =  
37100 33031 60987 36043 43275 84726 ... / ...  
NR 0415 20 03 07 2227 001 1301 = =  
37100 34021 60987 26043 41275 03826 04827 35926 54821 72349  
**R59436** 04825 27436 48217 59436 04276 35428 72609 14326 47530 K  
NR 0413 20 03 07 2230 001 1301 =  
37100 35021 60987 26503 41275 84826 04837 35926 54821 72349  
**R59436** 04825 27436 48217 59436 04376 35428 83609 14326 47530 K K  
RPT NR 0413 20 03 07 2230 001 1301 =  
37100 35021 60987 26503 41275 84826 04837 35926 54821 72349  
**R59436** 04825 27436 48217 59436 04376 35428 83609 14326 47530 K K

**3741 kHz, 08-03, 1844-1954 UTC, CW. Simplex net. NCS: GA9 and two outstations: FZ4 and KCH. This net is also using Rxxx codes just like the previous net. Possibly related or from the same country.**

1844 UTC GA9 DE FZ4 = 0....  
VV 2516 R1650 R1686 R1286 R2588 R1362 K K R ? K  
GA9R K  
1848 UTC GA9 QTC =  
0300 R030 R315 R07 R55 R75 R757 R00 R00 R11 R1 50 KK R ? K  
KCH R K  
QRU K  
QRU K  
VVV KCH DE GA9 QSA ? K  
KCH QSA 3 QSA ?  
GA9 QSA 3 QSA ? K  
KCH QSA 3 QSA ?  
GA9 QTC 0300 GA K  
1852 UTC KCH = 5516 R9650 R1686 R85486 R5588 R4362 K R ? K  
GA9 R K  
KCH 0300 R315 R05 R54 R74 R00 R750 R91 R00 R005 K R ? K  
GA9 R K  
1903 UTC CQ LV DE GA9 QSA ? K  
GAP DE FZ4 QSA 3 K  
GA9 DE KCH QSA 3 QRV K  
GA9 = 0400 34878 R ? K  
1907 UTC KCH QTC = 5516 R1650 R8586 R8286 R5488 R4362 K R ? K  
GA9 OK  
KCH 0400 R315 R05 R54N7 R00 R750 N11 R00 R005 K R ?  
GA9 R K  
1918 UTC GA9 DE FZ4  
VVV VVV 2516 R165 R1686 R1286 R2588 R1362 K K  
CGCG MATC

VVV 0400 R335 R05 R55 R75 R757 R00 R00 R03 R150 KMA ? ? K  
 GA9 OK OMMJ K  
 1942 UTC QTC VVV GA9 DE KCH QTC =  
 3226 R0407 R4736 R1620 R8500 R1790 R6523 R2340 R7826 R9500 R9681 R8909 R1354 R7326 R9120 R9840  
 R2250 R6523 R1620 332R R1840 R9781 R7909 R1051 R R0561 R22 R9006 KK R K  
 GA9 OK R K  
 1950 UTC VVV CQ DE GA9 QSA ? K  
 VVV CQ DE GA9 QSA ? K  
 GA9 DE KCH QSA 4 K  
 KCH DE GA9 QSA4 K  
 GA9 QTC = 9080 R034 R571 R14 R18 R14400 K  
 85 R85 R199030 R831R14 =813 R344 R4565186584 ... R946R1 K  
 DE FZ4 R R  
 KCH QRU 0400 = MATC = NOCM =  
 908 R5434 R5713 R5319 R0400 R8538R 53 R1603 R821 R3 K  
 GA9 OK K

**3311 kHz, 09-03, 1727-1826 UTC, CW**

1727 UTC VV GA9 DE FZ4 MARU MARU WG WG MATC MATC  
 VV VV 7923 R3226 R5926 R9721 R761 AA KCMG CMGF FF MATC  
 VV VV R270 R05 R53 R75 R752 R00 R00 R11 R150 KMJ K  
 1737 UTC GA9  
 VV GA9 GA9 DE KCH 4438 ...  
 1742 UTC GA9 DE FZ4 MARU MARU WG WG MATC MATC  
 VV VV 574 R200943 R175044 R113355 KK  
 VV GA9 DE FZ4 MARU MARU WG WG MATC MATC  
 VV VV 574 R200943 R175044 R113355 KMJ K  
 GA9 ...  
 1744 UTC GA9 DE KCH QSA 1 QRV K  
 KCH QRU QTC =  
 9743 R3286 R3226 R5936 R9728 R7634 KKK L.. K  
 KCH GCM GCM = =  
 0215 R320 R03 R56 R75 R03 R750 R11 R02 R005 K LPN ? K  
 OK QRU K  
 1804 UTC GA9 DE KCH QSA 1 QRV K  
 KCH RPT K  
 KCH RPT RPT K  
 GA9 DE KCH QSA 0 QSY 159 ...  
 GA9 ...  
 GA9 DE FG3 QSA 3 QSA ? K  
 GA9 DE KCH QSA 0 RPT K  
 DE FZ4 QRV K  
 1813 UTC GA9 090 R533 R3381 R943 R9..3 K  
 NR4 3 R4093 R5324 R3763 R936 R15R .. NR 8 R35 812 R3334 R4060 ....  
 GA9 DE FG3 95 950 .... / ...  
 FG3 7 = 59R355325R92425R ...  
 1822 UTC GA9 DE FZ4 MARU MARU WG WG MATC MATC  
 VV VV 7953 R3226 R5926 R9728 R9234 K VV 050 R260 R05 R53 R75 R75 R00 R00 R11 R2 KMJ K  
 1824 UTC GA9 DE FZ4 7953 R51326 R5926 R9728 R7654 KMJ K  
 VV VV 0250 R260 R05 R53 R75 R752 R00 R00 R11 R150 KMJ K  
 1826 UTC KCH 68067 R8182 N0058 R325 R06856 R6488 R1164 R6856 R2566 R3006 R8623 R2380 R3216 R2266 R3236  
 R5356 R3486 R1163 R3236 R6486 R2566 R5356 R8621 R03230 R3686 R8188 R8863 R6778 K R ? K  
 GA9 OK  
 9743 R3286 R3226 R5926 R9728 R7634 K R ? K  
 GA9 OK  
 KCH 0300 0320 R03 R56 R75 R03 R750 R11 R02R05 K  
 GA9 OK  
 GA9 DE FG3 QTR 0250 ...

**3741 kHz, 10-03, 1431 UTC, CW, i.p.**

GA9 DE FZ4 .... 9 225R90R05R03R75R75R00R00R19R150 KMJ K  
GA9 DE KCH = =  
9743 R3286 R5323 R7625 R3625 R1961 R1161 R3020 R1931 KMJ =  
9743 R3286 R5323 R7625 R3625 R1961 R1161 R3020 R1931 K VV = =  
0230 R270 R03 R00 R75 R00 R750 R11 R00 R05 KK = =  
0230 R270 R03 R00 R75 R00 R750 R11 R00 R05 KK

**3147 kHz, 10-03, 1444 UTC**

GA9 DE 9Z4 QTC =  
2300 R345 R05 R00 R750 R75 R00 R11 R00 R1 K K  
ABV 2300 R135 R05 R00 R750 R75 R00 R11 R00 R K K  
GA9 de H2Z QSA 1 35477 K

**3741 kHz, 10-03, 1535 UTC, CW, i.p.**

VVV GA9 DE FZ4 MARU MARU WG WG MATC MATC  
VVV 532 R000943 R165048 R113355 KMJ K

**3311 kHz, 11-03, 1631-1831 UTC, CW, i.p.**

1631 UTC ABV = = 1474 N5991 R7345 R903 R6895 R7598 R8961 R7107 R5371 R1139 K K  
RR  
CMG CMG QTC FFF QTC = =  
0100 R045 R05 R03 R10 R750 R80 R22 R01 R05 KMJ K  
R QSL  
OK QRU K  
1634 UTC MVD NR 06898R1408R... 0884R7789R6854R8...  
OK  
1644 UTC GA9  
M7O QSA 4 K  
GA9 ...  
1646 UTC GA9 DE M4D QSA 3 QSA 3 K  
GA9 ...  
GA9 ...  
1652 UTC GA9 DE MVD = R R QRU K  
1726 UTC GA9 DE M7O QRU QTC = =  
1474 R7306 R9706 R1408 R4268 K  
ABV 1474 R7306 R9806 R1408 R4268 ABV 1474 R7306 R9706 R1408 R4268 K K =  
CMG CMC FFF QTC QTC = =  
0200 R045 R05 R03 R10 R750 R80 R22 R01  
ABV = = 0200 R045 R05 R03 R10 R750 R80 R22 R01 K  
GA9 DE M7O QSA 1 K  
GA9 ...  
1732 UTC M7O QRU FFF QTC = =  
1474 R7306 R9706 R1408 R4268 K  
ABV 1474 R7306 R9806 R1408 R4268 A  
BV 1474 R7306 R9706 R1408 R4268 K K =  
CMG CMC FFF QTC QTC = =  
0200 R045 R05 R03 R10 R750 R80 R22 R01  
ABV = = 0200 R045 R05 R03 R10 R750 R80 R22 R01 K  
GA9 R R R  
M7O QRU K  
1807 UTC GA9 DE M7O K  
GA9 ...  
1824 UTC GA9 DE M7O QTC =  
1474 R4470 R7059 R7903 R5885 R7598 R8871 R7107 R8381 R1139 =  
ABV ABV = 1474 R4470 R7059 R7903 R5885 R7598 R8871 R7107 R8381 R1139 R ? K  
GA9 R K  
1831 UTC QTC 0300 R045 R05 R03 R10 R750 R80 R22 R01 R ? K  
GA9 R K

**3261.7 kHz, 13-03, 1752 UTC, CW, i.p.**

QUB QTC QTC == 09 R14 R03 R350 R155 R00R 999 R05 R999 R11 R00 R999 R15 R999 R00 K  
+ R 09 R14 R03 R350 R155 R00R 999 R05 R999 R11 R00 R999 R15 R999 R00 K  
450 DE XOY QSA ? K  
XOV DE 450 QSA 3 K  
XOV QTC QTC = = 354 R30 R988 R111 R041 R00000 K  
450 R 354 R30 R988 R111 R041 R00000 K  
XOU DE WCO QSA ? K  
XOV DE WCO QSA 3 813781 K  
XOU ... 14588  
WCO 185 841 858 K  
450 DE WCO QSA ? K  
VVV WCO DE 450 QSA 3 ? K  
VVV 450 DE WCO QSA 5???85348534 K  
450 IEC 8887887 K  
WCO OK 67940 67940 K

**3263 kHz, 15-03, 1535 UTC, CW**

CQ DE WCO QSA ? K  
WCO De 7GN QSA 4 ? K  
7GN DE WCO QSA 5 ÉÉ 4884 4884 R93548 K  
7GN R ÉÉ 69046 K

1538z:

XO4 de WCO QSA ? K  
WCO De XOY QSA 4 ? K  
WCO De XOY QSA 4 ? K  
XOV de WCO QSA 3 ÉÉ 5841 R80358 K  
VVV RPT  
XOV DE WCO QSA 3 ÉÉ 5841 R80358 K

1547z:

7GN DE XOY QTC QTC = 384 R030888 R096414 R000 ABV == 384 R030888 R096414 R000 K

Duplex Network. Net on 3696 kHz answers outstations on 3556 kHz)

**3137 kHz, 14-03, 1717 UTC**

Net control:

MATC MATC NR NR 06 13 20 03 14 01 40 0012101 = 75754 32014 23568 42114 32516 85967 21055 54278 56873 74861 96325  
52687 96532 10245 62534 14025 30216 32658 20407 1147 K

QSL ? QSL ?

Out station:

RPT 1AAA3 K

Net control:

ABV ABV 1AAA 3 = = 75754 32014 23568 K

Out station:

QSL 0119 K

Net control:

OK K

Both stations: SK SK

**3391 kHz, 14-03, 1723 UTC**

MLX DE TV4 É 689 689

MLX DE TV4 É 689 689

MLX DE TV4 QTC QTC NR NR 41 88 121 03 15 0044 2524 = = 29914 37358 ... / ... K

MLX DE TV4 ABV ABV ABV NR NR 41 88 121 03 15 0044 2524 = 29914 37358 ... / ... K



**3741 kHz, 26-03, 1826-1912 UTC, CW**

OT4 DE 2FS QSA 3 QRV QRV K

GA9 DE W5I QRU QRU = = 2854 R6806 R4106 R2808 R9088 KK ABV ABV 2854 R6806 R4106 R2808 R9088 K K = = FFFF QTC = 73

R27 R0255 R315 R05 R05 R80 R06 R76 R11 R00 R03 R1AAA0

R0300 K ABV ABV = 73 R27 R0255 R315 R05 R05 R80 R06 R76 R11 R00 R03 R1AAA0 R0300 K K

2FS DE OT4 55312 1 .....

RPT PBL PBL

OK OK NR 134 17 2703000606AAA003 K

QSL 01 QSL 1 ? K

QTC ? K

QSL QRV

1832z:

OT4 DE 2FS QTC NR 2714 10 03 27 0304 2605001 = 58004 05347 72816 60623 34715 05963 34729 95028 83963 34507 K = = QTC

NR 2714 10 03 27 0304 2605001 = 58004 05347 72816

60623 34715 05963 34729 95028 83963 34507 K QSL ? K

OK QSL QSL 27 K

1839z:

CQ DE GA9 QSA ? K

GA9 DE W5I QSA 3 QSA ? K

W5I DE GA9 QSA 5 K

GA9 DE 3PS QSA 5 QSA ? K

GA9 ÉÉ 25876 K

GA9 DE 3PS NR NR MATR (is QTR) 0300 QSL ? K

QTR 0300 QRU QRU VVV GA9 QTR QTR 0300 0300 QRV

1849z:

GA9 DE W5I QRV QRV = NR NR QTR 0300 QSL ? K

GA9 QSL 0300 QRV QRV K

W5I QRV QRV NR 0330 ABV ABV QTR = 2854R6806R4106R2808R9089 K QSL ?

FFFF QTR = 73R27R0300 R315R05R0680R06R760R11R00R031R1AA11 R0300 R? K

1853z:

GA9 DE W5I QLK QLK

GA9

FFFF QSL ?

W5I OK K

GA9 DE 3PS = 5279 R0931 R6872 R4052 R7182 R9493 R3219 R6512 R4212 R8068 R8468 R6932 R7292 R4013 R4816 K R ? K

GA9 OK

1900z:

GA9 DE W5I QTC = VVV GA9 DE W5I QTC = 573 R430943 R180016 R313355 R073 ABV ABV = 573 R430943 R180016 R313355

R073 K K MJ MJ K

1905z

CQ CQ DE 3LE QSA ? 79271 K

DE W5I ? ? ? ÉÉÉ 54172 K

DE W5I ÉÉ 54172 K

DE 3LE ÉÉ 79271 K

3LE DE W5I QSA 3 QSA 3 ÉÉ 54172 K

3LE OK

3LE DE 3PS QSA 4 QSA ? K

3LE QSA 3 ÉÉ 62061 K

3PS ÉÉ 59331 K

1911z:

3LE DE GA9 QSA 3 QSA ? K

**8653.8 kHz, 14-03, 1857 UTC.**

Sounds like a military exercise. English spoken with a North African accent, possibly Egyptian.

Weak and fading at times. The dots represent unreadable parts. Copied by Ary.

Victor Papa this is Victor Uniform. Two speedy boats on bearing 283 echo echo 4 nautical miles heading south.

Victor Bravo over.

This is Victor Bravo.

This is Victor Lima ...

Victor Bravo this is Victor Uniform ... two speedy boats on bearing 283 echo echo.

Distance 4 nautical miles heading south. Victor Bravo over.

This is Victor Lima. Roger out.

Course 120, speed 7 knots. Course 120, speed 7 knots. Time 2200 how copy?

This is Victor Uniform Roger.

Break.

Callsign Zulu Tango, callsign Zulu Juliet, did you copy my last over.

Callsign Zulu Tango, callsign Zulu Juliet. This is Victor Bravo. Two speedy boats on bearing 283 echo echo 4 nautical miles heading south.

On bearing 283 echo echo 4 nautical miles heading south over, on bearing 283 by callsign Victor Uniform. I identified ... as hostile now. Two speedy boats, hostile.

Victor Uniform engage hostile in position 283 echo echo 4 nautical miles.

Victor Uniform over. This is Victor Uniform roger out.

Echo Victor Uniform ... over

This Victor Juliet ... contact 233 ...

This is Victor Uniform. Roger out

Victor Uniform this is Victor Zulu, Request that you send your Bravo Charlie again, over.

Victor Vista this is Victor Uniform ... (turn turn turn???) I will listen 4 echo echo 8, correction 7.8 nautical miles.

Firing bearing 8 kilometers. Target position 283 echo echo 4 nautical miles. Distance 22 kilometers over.

Victor Lima this is Victor Uniform. Do you copy my last over.

This is Victor Lima. Yes, affirmative, affirmative over.

This is Victor Delta roger out.

Victor Lima has usual ... over ...

This is Victor Uniform say again your last over.

Victor ... this is Victor Uniform. Indicate number of your contact, over.

I repeat my last message. Contact is .... over ... number ... over

Victor Uniform, Victor Uniform from ... Zulu Tango.

This is. This is Victor Uniform over.

New contact ... Tango Tango 181 time 2216 ...

Zulu Tango this Victor Uniform indicate localization for your contact, over.

Zulu Tango 2216 2.5 ... decimal ...

This is Victor Uniform roger. Break. Indicate your new contact as (example unknown boat) and ...

... localization for this contact over.

Unknown .... 34 over.

Zulu Tango Victor Uniform. Your new contact is unknown .. 35, over.

Zulu Tango this is Victor Uniform, did you copy my last over.

Victor Uniform this is Victor Lima. Confirm ... 10 ... over.

This is Victor Uniform roger out. Eh, this is Victor Uniform affirmative out.

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## *RUSSIAN MILITARY TRANSCRIPTS*

Excerpts from logs submitted by Nige, André, Tom, Ary, Jay, Sylvain, Ron, Wolfgang.



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

Frequency: various    Mode: USB / voice

### RMv – Russian Military

#### 6922 kHz, 10-03, 1409 UTC, i.p.

150 ППППП ЮТЦЛЦ ИСЕЛВ ИРРХН МУЛЮФ ИРРХН МУЛЮФ ИРРХН МУЛЮФ УИЯЛЬ \_\_ДМЖ РЦЕВС РКЖДП НЫХИВ  
ДБИИХ ГЫГРН ОПЮЮЦ ЩСЦЦЬ РОНПХ ВУХВН ОАДВР ФЕЦПВ ЯППВВ Прием Я - Лото 75

150 PPPPP YUTTSLTS ISELV IRRKHN MULYUF IRRKHN MULYUF IRRKHN MULYUF UIYAL' \_\_DMZH RTSEVS RKZHDP NYKHIV  
DBIIKH GYGRN OPYUYUTS SHCHSTSTS' RONPKH VUKHVN OADVR FETSPV YAPPVV Priyom, Ya Loto-75 (this is Loto-75)

Interesting is the PPPPP part at the beginning of the message as you see this also in CW and some RTTY messages. I never saw this in voice traffic before.

4082 kHz, 29-03, 0435 UTC    SUKAT-15 clg STRIK-37 and SOAT-74 (comms checks)

### RAv – Russian Air Force

#### 11360 kHz, 20-03

1011 UTC    Korsar (Russian Air Force 334th Air Transport Regiment, 6985th Air Base, Pskov ) w/82013 reporting 1 hr into flt w/48 tons fuel.  
1013 UTC    Korsar w/76638 (IL-76MD--not heard) reporting 2 hrs into flt & "ops normal" w/51 tons fuel and ETA ?Borask? 1408 MSK.  
1017 UTC    Korsar w/76702 (IL-76MD--not heard) reporting landing at Kedr (Russian AB, Bryansk) at 1316 MSK w/26 tons fuel.  
1056 UTC    Murmansk Radio w/76743 (IL-76MD--not heard). Caught at sign-off. At 1258Z 76743 reports 2hr into flt w/20 tons fuel.  
1134 UTC    Korsar w/76769 (IL-76MD--not heard) reporting landing at ?Borask? at 1433 MSK.

#### 6685 kHz, 20-03

1410 UTC    Korsar and Klarinetist (Russian Air Force 12th Air Transport Division, 6955th Air Base, Migalovo/Tver) w/78805 (IL-76MD) reporting departure from (missed) at 1640 MSK w/53 tons fuel and "ops normal". Next is Krasnodar Tsentral'niy. At 1546Z 78805 reportis 2 hrs into flt w/35 tons fule & "ops normal".  
1414 UTC    Korsar w/86870 (prob IL-76MD) reporting departure from Buntar (Russian AB Orenburg) at 1656 MSK w/45 tons fuel & "ops normal". Next is Kedr.  
1440 UTC    Acft 78842 (IL-76MD) calling Davlenie (Russian Air Force 708th Air Transport Regiment, 6958th Air Base, Taganrog) w/no response.  
1452 UTC    Korsar w/76549 (IL-76MD--not heard) reporting 1 hr into flt & "ops normal".  
1514 UTC    Korsar w/78797 (IL-76MD) reporting departure from Tver at 1712 MSK w/42 tons fuel. One hr into flt & "ops normal".

#### 11360 kHz, 21-03

0645 UTC    Korsar (Russian Air Force 334th Air Transport Regiment, 6985th Air Base, Pskov) R/Cs w/78805  
0747 UTC    Burak R/Cs w/Ckhalovskij (not heard).  
0804 UTC    Acft 76764 (IL-76MD) calling Proselok (Russian Air Force 566th Air Transport Regiment, Bryansk) w/no response.  
0805 UTC    Acft 76714 (IL-76MD) calling Proselok w/no response.  
0851 UTC    Korsar R/Cs w/50608 (Russian AF A-50--not heard).  
1209 UTC    Korsar w/78764 (IL-76MD--not heard) reporting 1 hr into flt w/30 tons fuel & "ops normal".  
1233 UTC    Korsar w/76767 (IL-76MD--not heard) reporting landing at Raspiska (Russian AB Mozdok) at 1525 MSK.  
1236 UTC    Korsar w/75899 (IL-76MD--not heard) reporting 1 hr into flt w/11 tons fuel & "ops normal". 1238Z Acft 546 calling Ckhalovskij w/no response.  
1252 UTC    Ckhalovskij w/test counts.  
1257 UTC    Korsar w/76553 (IL-76MD) reporting landing at Glinozem (Russian AB Chernyakhovsk) at 1555 MSK.

**11360 kHz, 30-03**

1125 UTC Korsar (Russian Air Force 334th Air Transport Regiment, 6985th Air Base, Pskov) w/76720 (IL-76MD--not heard), ident as flt of three, reporting landing at ?Yanovsk? at 1417 MSK.

1135 UTC Korsar w/76738 (IL-76MD--not heard) reporting landing at Raspiska (Russian AB Mozdok) at 1434 MSK. At 1633Z reports to Davlenie landing at Karakul (Russian AB, Engels) at 1930 MSK.

1215 UTC Korsar w/82035 (Russian AF AN-124--not heard) reporting landing at Raspiska at 1504 MSK w/25 tons fuel.

**6685 kHz, 30-03**

1459 UTC Korsar w/76650 (IL-76MD) reporting 1 hr into flt for the group w/41 tons fuel & "ops normal".

1501 UTC Davlenie (Russian Air Force 708th Air Transport Regiment, 6958th Air Base, Taganrog) w/76724 (IL-76MD) reporting 12 hr into flt w/22 tons fuel.

1503 UTC Acft 78807 (IL-76MD) USB calling Klarnetist (Russian Air Force 12th Air Transport Division, 6955th Air Base, Migalovo/Tver) w/no response.

1539 UTC Acft 76768 (IL-76MD) USB calling Davlenie & Korsar w/no response.

1540 UTC Klarnetist USB calling 76738 (IL-76MD) w/no response.

1543 UTC Korsar USB w/76772 (IL-76MD) reporting landing at Kadril (Russian AB Ryazan) at 1842MSK.

1545 UTC Klarnetist USB W/76679 (IL-76MD) reporting 1 hr into flt w/30 tons fuel.

1600 UTC Proselok (Russian Air Force 566th Air Transport Regiment, Bryansk) USB calling Klarnetist.

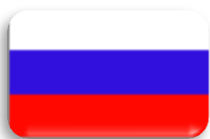
1603 UTC Davlenie USB w/78762 (IL-76MD) reporting 1 hr into flt w/24 tons fuel. Requests flt info be relayed to Proselok.

1605 UTC Davlenie USB w/76650 (IL-76MD) reporting 1 hr into flt w/26 tons fuel & "ops normal." at 1643Z advises Korsar the group has finished work and ETA landing at Kedr (Russian AB, Bryansk) is 2030 MSK.

1607 UTC Davlenie USB w/76724 (IL-76MD) reporting llanding at Vnukovo at 1900 MSK.

1615 UTC Davlenie USB w/78813 (IL-76MD) reporting departure from ?Kadanka? w/45 tons fuel. At 1645Z advises Proselok they are 1 hr into flt & "ops normal".

1701 UTC Acft 76553 (IL-76MD) USB calling Korsar, Davlenie & Polis (Russian Air Force 117<sup>th</sup> Air Transport Regiment, 6956th Air Base, Orenburg) w/no response. Broadcasts in blind that 76553 landed at Shaykovka at 2000 MSK.

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

5432 kHz, 02-03, 1406 UTC	XXX WEGI 82536 SROKOMOZG 1244 1044 K
4376 kHz, 02-03, 1413 UTC	XXX VUOZ 47142 GRUZOChU 6041 4990 K
5874 kHz, 06-03, 1302 UTC	XXX L31E 05550 PEREUÛET 7890 2345 ....NA 3223 3604 K
4376 kHz, 06-03, 1333 UTC	XXX VUOZ 98509 GORODECKIJ 2193 1041 K

**8734 kHz, 06-03**

0637 UTC KMNb DE OWDC QTC K  
OWDC = 270 024 833 K  
DE ZGxK = 290 293 087 192 024 969 K  
KMNb DE OWDC QTC K  
DE ZGxK = 290 293 087 192 024 969 K

0642 UTC KMNb DE OWDC QTC K  
DE ZGxK = 290 293 087 192 024 969 K

0727 UTC KMNb DE ZGxK K  
DE ZGxK QSA 3 K

0804 UTC KMNb DE OWDC QTC K  
OWDC = 455 495 566 363 219 909 362 K  
OWDC C K

0834 UTC KMNb DE ZGxK K  
ZGxK QTC K  
ZGxK = 191 896 801 219 288 641 K  
ZGxK C K

**13366 kHz, 08-03, 1002 UTC**

J4M6 DE GTMN K

J4M6 DE GTMN K

GTMN 782 27 8 1300 782 = 571 =

28574 62210 19840 53719 12740 32719 63591 65702 09316 36540

03962 02797 04154 08565 09707 29611 79268 39192 39167 32471

98403 42650 16307 05327 33430 08025 K

**14414.2 kHz, 08-03, 1159 UTC**

BOVZ DE F4A7 K

QRJ 3 K

QTC K

142 32 8 1420 142 =

FM 918 643 FOR 776 210 =

PWMVO FTSRA NREAH VDBBX OGNRT

IPEKA MSUWS AeFOeCF WKAEE PRNRG

TWRUW TWRIK ENChKH ABPMO NUAMW

AXABD PAVKP DDLOF FWUKUe STMIA

LORNE LOTSM ABLGN SBLOS NGChUK

VBPCChG BPChWA PAeOeSM BXTEG PIPWO

RPT AL K

C AR

**7964 kHz, 17-03, 1648 UTC**

3KWX 3KWX 3KWX DE AYAI AYAI K

OAP9 OAP9 OAP9 DE AYAI AYAI K

5OBH 5OBH 5OBH DE AYAI AYAI K

**4979 kHz, 18-03, 1707 UTC, i.p.**

RHQ2 DE RAL2 QSA ?

QSA 2 ZNN SK

RMW2 DE RAL2 QRV ? K

OK BT 128 26 17 0316 128 =

SOYYK DHFXK ZDIEY (Cont'd)

**5210 kHz, 18-03, 1832 UTC, i.p.**

OUO2 DE JQHL K

R K

C.C5 DE JQHL K

R K

Y4ZK DE JQHL K

Y4ZK DE JQHL K

Y4ZK DE JQHL K

Y4ZK DE JQHL K

R K

3829 kHz, 16-03, 0422 UTC JFB5 16884 KOGYeZIONNYJ 23067167

3829 kHz, 16-03, 0400 UTC GNVY 09316 ANShLAG 51440655

3829 kHz, 16-03, 0344 UTC GNVY 49819 KRANOPOT 47521931 BROMOVYJ 39275334

3829 kHz, 16-03, 0341 UTC GNVY 17649 GOLUBICA 78675474

3829 kHz, 16-03, 0302 UTC JFB5 65607 ShPOROSIP 29063299

3829 kHz, 16-03, 0209 UTC JFB5 50043 ADYeNOSVOD 28423656

3829 kHz, 16-03, 0206 UTC JFB5 52502 KAYuKOTYeST 65940785

3829 kHz, 16-03, 0202 UTC JFB5 75756 KARTOMYeTRIYa 37736239

5021 kHz, 17-03, 1529 UTC ZhUOZ ZAUMNOST' 5430 //5096 kHz CW and at the same time also on 4625 kHz (S28 voice)

5096 kHz, 17-03, 1529 UTC ZhUOZ ZAUMNOST' 5430 //5021 kHz CW and at the same time also on 4625 kHz (S28 voice)

3829 kHz, 18-03, 0429 UTC 2BYP 48053 KANONIK 56736358

3829 kHz, 18-03, 0410 UTC SOBG 97212 DIALYeKTIK 98255323 BALKANSKIJ 27037085

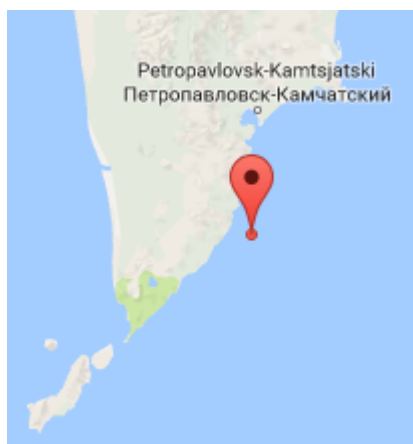
3829 kHz, 18-03, 0349 UTC 2BYP 67029 BUKSOSTYeK 14287386

3829 kHz, 18-03, 0249 UTC ZhP41 68206 EKTOGYeNYeZ 52481414

3829 kHz, 18-03, 0243 UTC 2Zh8I 65545 AKSIOMA 24230211  
 3829 kHz, 18-03, 0239 UTC 2Zh8I 55278 VYeChYeVOJ 34579521  
 5096 kHz, 23-03, 1305 UTC ZhUOZ 39680 ZNAYuShchIJ 72462959 At the same time also on 4625 kHz (S28 voice)  
 5096 kHz, 23-03, 1248 UTC ZhUOZ 99841 DINAS 72871361 At the same time also on 4625 kHz (S28 voice)  
 5096 kHz, 23-03, 1140 UTC ZhUOZ 99382 ZOBOPOLK 14960354 At the same time also on 4625 kHz (S28 voice)  
 5096 kHz, 23-03, 1115 UTC ZhUOZ 46331 KAINOGON 73484797 ANGELOChYeK 01301903 At the same time also on 4625 kHz (S28 voice)



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



**3309 kHz, 06-03, 1654 UTC**

RGI39 wkg RCC

QTC SML 110 15 1945 110 =

FM RJI39 FOR RJH45 RJH48/RJE60 =

01681 99519 11586 41/97 93206 11037 49902 54011 70022 22242 2////

AR RJI39

Location: see map on the left

**3309 kHz, 06-03, 1810 UTC**

RGS56 wkg RCC

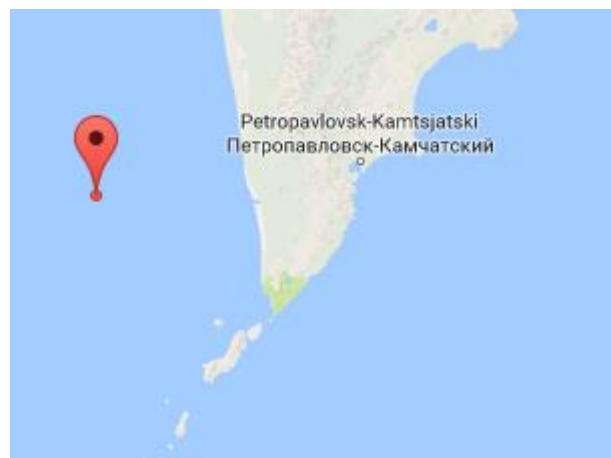
QTC SML FM RGS56 FOR RJH48 RJE60 =

06181 99526 11592 41/97 /1403 11025 49904 57010 70111 22200

00010 2//// 399// 499// 5//// =

AR RGS56 K

Location: see map on the right



5293 kHz XXX RJT67 75424 KATASTROFA 6397 3391 K

7421 kHz, 11-03, 0905 UTC XXX DRAKOM 7834 K

7421 kHz, 11-03, 1004 UTC XXX LW6T KOSMOS 1085 K

**7406 kHz, 06-03, 0444 UTC**

RMEG DE RCC QTC 667 23 6 0730 667 =

FM RCC FOR RMEG =

03491 45630 24003 81440 50678 31810 03654 00423 04184 53081

45081 35210 44816 53021 81044 53810 30081 26414 34412 87451 06020 =

AR RCC K

**15586 kHz, 25-03, 0808 UTC, CW**

XXX XXX RJV RJV 18245 KLÜWOMORD 5410 5607 K  
 XXX XXX RJV RJV 90032 LIDSODAR 7101 3515 K  
 XXX XXX RJV RJV 83262 NEWNÄTNICA 0190 2965 K  
 XXX XXX RJV RJV 42766 BOBOPOL 7460 1760 K  
 XXX XXX RJV RJV 03805 WYPUSKNOJ 6027 6753 K  
 XXX XXX RJV RJV 21351 KATANIE 0642 8459 K  
 XXX XXX RJV RJV 91999 DEWAHA 7171 8210 K  
 XXX XXX RJV RJV 05675 KRANOLOW 9218 8645 K  
 XXX XXX RJV RJV 33973 DVUTOBER 4893 6895 K  
 XXX XXX RJV RJV 95789 AVUROVNEC 2883 7250 K  
 XXX XXX RJV RJV 87730 BXEFOHUK 6338 7133 K  
 XXX XXX RJV RJV 55068 IHTIOZ 0114 3938 K  
 XXX XXX RJV RJV 73692 BOECONIL 2795 3206 K  
 XXX XXX RJV RJV 52404 LADOFUT 1643 5348 K  
 XXX XXX RJV RJV 50981 BOKOKRIT 7690 9882 K  
 All confirmed on 12464 by RMYZ and RBEG.

12464 kHz, 25-03, 0831 UTC RIW DE RGR70 OK QAP K QSA1 RPT K OK QRR3 QDW 10388 K  
 12464 kHz, 25-03, 0928 UTC RLD69: Navy Ship Georgiy Probedonosets. RCV DE RLD69 QSA? K - QYT4 QLS K  
 4118 kHz, 29-03, 0440 UTC XXX ZZDE MAOORAN 0563 K

**2558 kHz, 27-03, 1805 UTC**

RBEP Wkg RJD52:  
 425 17 27 2100 425 =  
 FM RBEP FOR RJD52 RJD88 =  
 27181 99430 10476 41997 93206 10006 40760 5///// 70322 22200 299// 88000 80000 27013 = AR RBEP K  
 RJD52 QSL 425 K  
 RBEP OK QRU K



**M32b**  
*Russian Naval Aviation*  
Aviatsiya Voenno-morskogo Flota Rossii

**8816 kHz, 05-03**

0728 UTC 46136 QTO 0717 QRD XLWF XLMV QRE 1015 QBD 0530  
 0817 UTC 46136 QTH 16552 13355 QTR 0816 QBG 5800  
 0919 UTC 46136 QTH 16225 13616 QTR 0917 QBG 5800  
 1018 UTC 46136 QTC QQM XLWF 1018  
 1141 UTC 46136 QTC QTO 1131 QRD XUMO XLWF QRE 1251 QBD 0530  
 1234 UTC 46136 QTH 15616 13639 QTR 1231 QBG 3700  
 1248 UTC 46136 QTC QQM XUMO 1248  
 1422 UTC 46136 QTO 1404 QRD XLMV XUMO QRE 1805 QBD 0530  
 1509 UTC 46136 QTH 15842 13811 QTR 1507 QBG 5800  
 1609 UTC 46136 QTC QTH 16207 13629 QTR 1605 QBG 5500  
 1707 UTC 46136 QTC QTH 16544 13400 QTR 1705 QBD 0300  
 1812 UTC 46136 QTC QQM XLMV 1811

**8816 kHz, 06-03**

0635 UTC 46136 QTH 16526 13411 QTR 0633 QBG 5800  
 0740 UTC 46136 QTC QTH 16117 13701 QTR 0735 QBK 5800  
 0816 UTC 46136 QTC QQM XLWF 0815  
 0926 UTC 46136 QTO 0917 QRD XLAA XLWF QRE 1110 QBD 0530  
 1019 UTC 46136 QTH 16233 13929 QTR 1017 QBG 5800

**8816 kHz, 09-03**

1223 UTC 42112 QTO 1214 QRD XUMU XLMV QRE 1435 QBD 0430  
 1250 UTC 46136 QTH 14735 14106 QTR 1245 QBD 0330 QRE XRKA 1355  
 1325 UTC 42112 QQL ULPE 1323 QBG 9400 QRE XUMU 1425  
 1353 UTC 46136 QTC QQM XRKA 1350  
 1423 UTC 42112 QTC QQM XUMU 1423

**8816 kHz, 16-03**

0932 UTC RJC38 RJF94 DE 10945 QTO 0927 QRD XLAP XLMV QRE 1112 QBD 0500 K  
 QTH 16622 13334 QTR 1012 QBG 3900 QBD 0430 QRE XLAP 1115 K  
 QQM XLAP 1115 SK  
 1505 UTC RJC38 RJF94 DE 10945 QTO 1452 QRD XLAA XLAP QRE 1532 QBD 0500 K  
 QQM XLAA 1525 SK  
 1659 UTC RJC38 RJF94 DE 10945 QTO 1641 QRD XLMV XLAA QRE 1821 QBD 0430 K  
 QTH 16617 13652 QTR 1712 QBG 6000 QBD 0400 QRE XLMV 1808 K  
 QQM XLMV 1810 SK  
 1710 UTC RJF94 RJC38 DE 75277 QTO 1700 QRD XLWF XLMV QBD 1000 QRE 1930 K  
 QQL ULPE 1759 QBG 7000 K  
 QAY XLPB 1832 QBD 0800 QRE XLWF 1915 K  
 QQM XLWF 1913 SK  
 ---- UTC RJF94 RJC38 DE 75277 QTO 1935 QRD XLMV XLWF QBD 0710 QRE 2155 K  
 QAY XLPB 1920 QBD 7300 K

**8816 kHz, 17-03**

0710 UTC 75271 QTO 0702 QRD XMWH XLMV QBD 0800 QRE 1150  
 0808 UTC 75271 QQL ULPE 0806 QBD 0700 QBG 7900  
 0914 UTC 75271 QTC QTH 16004 13132 QTR 0909 QBD 0600 QBG 7900  
 0929 UTC 10946 QTO 0922 QRD XLWF XLMV QRE 1147 QBD 0500  
 0946 UTC 75271 QTC QTH 15958 12606 QTR 0942 QBD 0530 QBG 7900  
 1033 UTC 10946 QTH 16436 13445 QTR 1031 QBG 7000 QBD 0400  
 1046 UTC 75271 QTC QTH 15727 12010 QTR 1039 QBD 0430 QBG 7900  
 1058 UTC 10946 QTH 16249 13602 QTR 1056 QBD 0330 QRE XLWF 1155  
 1109 UTC 75271 QTC QTH 15511 12035 QTR 1106 QBD 0400 QRE XMWH 1130  
 1122 UTC 75271 QTC QQM XMWH 1122  
 1150 UTC 10946 QTC QQM XLWF 1145  
 1414 UTC 75271 QTO 1405 QRD XLMV XMWH QBD 0800 QRE 1850  
 1459 UTC 75271 QTH 15825 12043 QTR 1455 QBD 0700 QBG 7300  
 1603 UTC 75271 QTC QTH 16035 12156 QTR 1559 QBD 0600 QBG 7300  
 1644 UTC 75271 QQL ULPE 1642 QBD 0500 QRE XLMV 1845  
 1735 UTC 75271 QTC QQM XLMV 1736

**8816 kHz, 25-03**

1011 UTC RJF94 RJC38 DE 42112 QTO 1000 QRD XUMU XLMV QRE 1215 QBD 0345 K  
 QAY XLPB 1111 QBG 10050 QRE XUMU 1215 K  
 QQM XUMU 1208 SK  
 1332 UTC RJF94 RJC38 DE 75275 QTO 1320 QRD XMWH XLMV QBD 1000 QRE XMWH 1720 K  
 QTH 15055 12945 QTR 1520 QBD 0800 K  
 QTH 15756 12027 QTR 1615 QBD 0700 QRE XMWH 1700 K  
 QQM XMWH 1653 SK

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

9595 kHz, 02-03, 1410 UTC XXX 1QRF 29020 SROKOMOZG 1244 1044 K

**10683 kHz, 03-03**

0931 UTC XXX 1QRF 97450 WSTAWANXE 6716 7931 K  
 0937 UTC XXX 1QRF 92990 BUKSOSKOP 6841 7262 K  
 0942 UTC XXX 1QRF 44844 BANDITSKIY 2998 6812 BUFFOREW 1463 7157 K  
 1015 UTC XXX 1QRF 97328 BEZOTLUŌNYJ 1025 4896  
 1045 UTC XXX 6S8F 13181 KARDIOLOG 5831 9274 GRAFOSEUL 6452 4726 KOUNDOYJ 2353 2338 K  
 1050 UTC XXX 6S8F 13447 BUFFOMORV 4281 0839 GRAFOTAJM 3769 3208 K

**9595//10653/10586 kHz, 03-03**

0934 UTC XXX 1QRF 20371 WSTAWANXE 6716 7931 K  
 0936 UTC XXX 1QRF 53956 DUWROVID 6132 8937 K  
 0939 UTC XXX 1QRF 78747 BUKSOSKOP 6841 7262 K  
 0945 UTC XXX 1QRF 14383 BANDITSKIY 2998 6812 BUFFOREW 1463 7157 K  
 1000 UTC XXX JUE4 MJUR 22558 088 = DDDDD MALJW A+YUZ PMZET ...  
 1027 UTC XXX 1QRF 78580 PESSIMIZM 1563 1061 NIMBOKREM 6869 4711 K  
 1030 UTC XXX 1QRF 03532 PLŪMAVNYJ 2961 9651 AULOLOM 8364 0751 K  
 1042 UTC XXX 1QRF 17533 BEZOTLUŌNYJ 1025 4896  
 1044 UTC XXX MSK 32803 RWODIEN 0790 7268  
 1047 UTC XXX MSK7 22474 AMPLITUDA 9528 6163 GAKOBIT 8106 2982 K

**Tu-95MS Bear H net**

8029 kHz, 03-03, 0900 UTC W-markers  
 16058 kHz, 03-03, 0902 UTC W-markers (harmonic of 8029 kHz)  
 8029 kHz, 10-03, 0620 UTC W-markers  
 8170 kHz, 10-03, 0630 UTC OWDC QTC K  
 8170 kHz, 10-03, 0607 UTC 9GYT QTC K  
 8170 kHz, 10-03, 0635 UTC MWTL DE WRHY QTC K 984 222 039 119 549 819 K  
 8029 kHz, 10-03, 0635 UTC MWTL = 984 222 039 119 549 819 K  
 8170 kHz, 14-03, 0500 UTC GV8J = 522 394 551 335 141 974 377 K and C K  
 8170 kHz, 14-03, 0502 UTC MWTL DE QS8A QTC K  
 8170 kHz, 14-03, 0505 UTC MWTL de PCSY QTC K and = 324 551 177 448 974 418 K  
 8170 kHz, 14-03, 0508 UTC MWTL DE QS8A K  
 8170 kHz, 14-03, 0516 UTC QSA 3 QTC = 394 539 140 176 097 978 K  
 8170 kHz, 14-03, 0525 UTC MWTL DE QS8A K  
 8170 kHz, 14-03, 0543 UTC MWTL DE QS8A QTC 1 = = 881 568 277 568 097 790 K  
 8029 kHz, 14-03, 0546 UTC MWTL R 881 568 277 568 097 790 K  
 8029 kHz, 15-03, 0700 UTC W-markers  
 8029 kHz, 16-03, 0800 UTC W-markers  
 8029 kHz, 17-03, 0920 UTC W-markers  
 8170 kHz, 10-03, 0603 UTC OWDC QTC K  
 8170 kHz, 10-03, 0607 UTC 9GYT QTC K  
 8170 kHz, 10-03, 0635 UTC MWTL DE WRHY QTC K 984 222 039 119 549 819 K  
 8029 kHz, 10-03, 0635 UTC MWTL = 984 222 039 119 549 819 K  
 8170 kHz, 10-03, 0731 UTC MWTL de PCSY QTC K and = 139 995 222 886 2.5 908 K  
 8170 kHz, 10-03, 0753 UTC MWTL de OWDC QTC K  
 8170 kHz, 14-03, 0500 UTC GV8J = 522 394 551 335 141 974 377 K C K  
 8170 kHz, 14-03, 0502 UTC MWTL DE QS8A QTC K  
 8170 kHz, 14-03, 0505 UTC MWTL de PCSY QTC K and = 324 551 177 448 974 418 K  
 8170 kHz, 14-03, 0508 UTC MWTL DE QS8A K  
 8170 kHz, 14-03, 0516 UTC QSA 3 QTC = 394 539 140 176 097 978 K  
 8170 kHz, 14-03, 0525 UTC MWTL DE QS8A K

8170 kHz, 14-03, 0543 UTC MWTL DE QS8A QTC 1 = = 881 568 277 568 097 790 K  
8029 kHz, 14-03, 0546 UTC MWTL R 881 568 277 568 097 790 K  
8029 kHz, 20-03, 0600 UTC W-markers  
8029 kHz, 20-03, 0620 UTC W-markers  
8029 kHz, 20-03, 0940 UTC W-markers  
8029 kHz, 28-03, 1600 UTC W-markers  
8029 kHz, 29-03, 0900 UTC W-markers



## JCS FOXTROT MESSAGES & EMERGENCY ACTION MESSAGES

Joint Chief of Staff Emergency Action Messages and Foxtrot Messages

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

02-03, 1811 UTC	Split End	EAM i.p. YUQSLJAN6VWQ7MLXRLWBZBBMP
07-03, 1650 UTC	Motivate	52 chr EAM PQWDTA HYP2W5JIKE77TNE37K7IZPS34LR6ENE3QKTDZPWWD4JWD
07-03, 1716 UTC	Motivate	30 chr EAM PQM2DW 4OF5EI624Y3LVZYAIPSHLYW7
07-03, 1742 UTC	Motivate	30 chr EAM IZQZTP XVZOQ4TS3GTWDMKS3G2I7UK4
07-03, 1746 UTC	Motivate	30 chr EAM IZ7IV6 LVO44DJ5E67GG2XKVNWQH3CN
07-03, 1806 UTC	Motivate	30 chr EAM IZZE5R TKSP3QOP45TDZ5FQZOELT6W2
07-03, 1823 UTC	Motivate	30 chr EAM IZBGBV DETHDBKZLQKQXK5G76ICGZIV
07-03, 1928 UTC	Motivate	30 chr EAM for Pawn PQWPP4 2WAVZN63K564GEVTRXV4GQOS
07-03, 2003 UTC	Motivate	30 chr EAM for Pawn PQD74R 72LX2JWAFX3BRGNZFZGEXSF5
08-03, 1603 UTC	Aberdeen	30 chr EAM IZH2ZO MMVVVTWQJDF42O53ODHBIRSTC
08-03, 1701 UTC	Aberdeen	30 chr EAM IZKBEF AIWHT36P2KHP2B5RL6F3ZDRW
10-03, 1648 UTC	Raincoat	30 chr EAM IZAM4S SD7N2M3FDBKSWICZQPSJEAMS
10-03, 1654 UTC	Raincoat	30 chr EAM 4OHPSF V33R7BCSUGT77SAJKJTSETNI
10-03, 1657 UTC	Raincoat	30 chr EAM 4OWUS2 ZELIS2UPEK5TCOMUL52MJS7C
10-03, 1831 UTC	Raincoat	30 chr EAM IZHICL GQS2ITGLO4OR35KYXBDPYWBL
10-03, 1858 UTC	Raincoat	30 chr EAM IZD7L6 G7HYNZHKDNQBHVNSTHRAE2AZ
10-03, 1902 UTC	Raincoat	30 chr EAM IZ6HIB 354M75ELJA7KSQBDFSRXUNV2
10-03, 1918 UTC	Raincoat	30 chr EAM IZBWEL VXVVSUWUOF46YOFWHQGN7OYNO
11-03, 0617 UTC	Courtland	30 chr EAM IZRATL 47KPKKYNCCB7C4ULB47G3QCJ
11-03, 0619 UTC	Courtland	30 chr EAM IZGYOT UY43WXC3WRVUOSCW2PWGYO6X
11-03, 0622 UTC	Courtland	30 chr EAM IZRATL 47KPKKYNCCB7C4ULB47G3QCJ
11-03, 0627 UTC	Courtland	30 chr EAM IZEFX7 K3NBCEITQ4Y7DFQISK2XNJKA
11-03, 0630 UTC	Courtland	30 chr EAM IZEFX7 K3NBCEITQ4Y7DFQISK2XNJKA
11-03, 0634 UTC	Courtland	30 chr EAM IZIL5M LLAZJ6B5S34ZFOY4UDE6CPCP
11-03, 1528 UTC	Courtland	30 chr EAM IZUE52 DUOIHSZ6DYK3L5TTXLRXLBU3
11-03, 1530 UTC	Courtland	30 chr EAM IZ7TDX 6RA4JXATPTMB7PSTEZRLDZ77
11-03, 1533 UTC	Courtland	30 chr EAM IZDRJV 5QDG53KQJ5IWHVVOEYOYPTR76M
11-03, 1535 UTC	Courtland	30 chr EAM IZA32H TPLKI7EJRNIIYXHB7JQ77G disregard this message
11-03, 1537 UTC	Courtland	30 chr EAM IZ7TDX 6RA4JXATPTMB7PSTEZRLDZ77
11-03, 1539 UTC	Courtland	30 chr EAM IZDRJV 5QDG53KQJ5IWHVVOEYOYPTR76M
11-03, 1541 UTC	Courtland	30 chr EAM IZA32H TPLKI7EJRNIIYXHB7JQ77G
11-03, 1553 UTC	Courtland	48 chr EAM 4OR342 A4FLI3BVFQKNH6FLXRYFLX62FQQVUJTCFNJXFOVX4E
11-03, 1557 UTC	Courtland	30 chr EAM 4OR342 A4FLI3BVFQKNH6FLXRYFLX62FQQVUJTCFNJXFOVX4E
11-03, 1600 UTC	Courtland	30 chr EAM IZ7TDX 6RA4JXATPTMB7PSTEZRLDZ77
11-03, 1604 UTC	Courtland	30 chr EAM IZA32H TPLKI7EJRNIIYXHB7JQ77G
11-03, 1607 UTC	Courtland	30 chr EAM 4OBIHU RI2R5H5OL3256LE7QFHD3JR3
11-03, 1610 UTC	Courtland	30 chr EAM 4OBIHU RI2R5H5OL3256LE7QFHD3JR3
11-03, 1615 UTC	Courtland	30 chr EAM IZ5TQI XEFH6GCASYP4HARDDKJ3RYLY
11-03, 1619 UTC	Courtland	30 chr EAM IZ5TQI XEFH6GCASYP4HARDDKJ3RYLY
11-03, 1630 UTC	Courtland	30 chr EAM IZ7TDX disregard this message
11-03, 1632 UTC	Courtland	30 chr EAM IZ4KLW F7Y7DOHYC27FXKCCOZVQLJFH

11-03, 1634 UTC	Courtland	30 chr EAM IZ7TDX 6RA4JXATPTMB7PSTEZRLDZ77
11-03, 1636 UTC	Courtland	30 chr EAM IZDRJV 5QDG53KQJ5IWHVVOEYOYPTR76M
11-03, 1638 UTC	Courtland	30 chr EAM IZA32H TPLKI7EJRNIIYXHB7JQ77G
11-03, 1644 UTC	Courtland	30 chr EAM IZYL4Q JEIFSHDTXHTVLNJ5LWWSSY65
11-03, 1648 UTC	Courtland	30 chr EAM IZYL4Q JEIFSHDTXHTVLNJ5LWWSSY65
12-03, 0604 UTC	Ironweed	30 chr EAM IZ4MZB KPBH4357WTH2367ZCE5WSRA5
12-03, 0630 UTC	Ironweed	30 chr EAM IZVNYB IEDZVR6PGXNJBVPKDRJ5M3KI
12-03, 1349 UTC	Ironweed	30 chr EAM 4ODPII FIKPJB6HRTFGHOF5AEQ6U76W
12-03, 2230 UTC	Ironweed	30 chr EAM IZACMN SVF64DSLWJOJ5QEWK66BGTUVU
13-03, 1451 UTC	Brown Rat	30 chr EAM IH5RPQ LPZLYDPI4LT43ZWXYPZJJ6AW
13-03, 1529 UTC	Brown Rat	36 chr EAM 4ODUMR XUSCOPIFU7EZFBTA6CM4WWLM3LFMSA
13-03, 1833 UTC	Brown Rat	30 chr EAM IHHZ2U QUOL362UTZJLV7YGNLV27NA3
14-03, 1237 UTC	Election	30 chr EAM 4O3RDC JVBWUM4VTWO4IVVNIBJZ3BLA
17-03, 1833 UTC	Technical	30 chr EAM for Solder 40VVC5 6W54LD4CN disregard this message
17-03, 1834 UTC	Technical	30 chr EAM for Solder 40VVC5 6W54LD4CN767ZWVX24DDLIC2
23-03, 0220 UTC	Pen Stock	109 chr EAM ZYQURN YEOSFKVSVDQIPJ65FF6UOBVARID7TUIOLX3U2MSCUY7ZUZA7C7EW RYIITYX6B XPSMQA2EJPS IXORRUQQY2NNDNRIN4YYYYYBUUI72HHU2
23-03, 1140 UTC	Pen Stock	33 chr EAM 4OOV7L UIQBHU4BXWAW56WIXL7VKCT6JZL
23-03, 1335 UTC	Pen Stock	52 chr EAM 4OORYX MM4LR6YK2EK435ZDHYBENBVJPNQXJIPSC5JPNG63QNNQSZ
23-03, 1604 UTC	Pen Stock	36 chr EAM 4OX7LG LDBTJPCGVSLSLBGSEKOM5OIDKWTORX
23-03, 1705 UTC	Pen Stock	53 chr EAM 4O2PQ5 53M62ZYMEOL5T4EXL3LLGLKCIDMSFJLP4TH4VGKIJNASBEA
23-03, 1859 UTC	Pen Stock	30 chr EAM IHPCM4 YPHA3MT6HCS4UFZBXJP6NYQR
25-03, 1735 UTC	Bellyflop	30 chr EAM for Fashionable 4OOTYO YVQ2KVTEERFO44J54AKG6ZET
25-03, 1737 UTC	Bellyflop	30 chr EAM NMDEL B WHMXPWKPCVRC7UQF3FSTSM6
25-03, 1740 UTC	Bellyflop	30 chr EAM NMIGTX KX23PU2NLHQVAAMX3FCNDKOT
25-03, 1745 UTC	Bellyflop	30 chr EAM for Fashionable 4O5XHF S7UJK6YOQQZXSRCAZMIYAGK2
25-03, 1748 UTC	Bellyflop	30 chr EAM NMR3BK HJG6KDZ3X7PFYLEGUVSBS3N
25-03, 1812 UTC	Bellyflop	30 chr EAM for Thinker 4O5KYL BDBMESLZF3NNA5RA4BTGCTGN
25-03, 2011 UTC	Bellyflop	30 chr EAM for Thinker 4OY6JH L2XRQHONBL4ZOL5LD5ZTNJ55
27-03, 1536 UTC	Sensitive	30 chr EAM J6PL3L GEI5WYE36YBCR4WYIZCP4TJX
27-03, 1947 UTC	Sensitive	30 chr EAM NM5I7I EBH3UDXDDW33DQODVDYPPCFI
27-03, 1953 UTC	Sensitive	30 chr EAM NMULJ6 ABRDUJFHDPDGT03PCH7P4OM
27-03, 2023 UTC	Sensitive	30 chr EAM NMHOWT WOVKEQ2ZS3XROCFUTYUQCZVG
28-03, 1637 UTC	Chinaware	30 chr EAM NMVCGC SADKUQZVPSEOL5XHW5TVVVIE
28-03, 1715 UTC	Chinaware	30 chr EAM NMTWEX BOEDXXOCVUYQXBXD7JVQ3MEA
29-03, 1603 UTC	Overreach	30 chr EAM NMRJVV 4A32LPO3FEJYPDMAL725TK3O
29-03, 1633 UTC	Overreach	30 chr EAM for Pouch J64II6 DQI6ZTYUW37FKKS4YGDINT45
29-03, 1647 UTC	Overreach	30 chr EAM for Pouch J6OA5W ICCIOUNOFIROQD45IQKQM4E2
31-03, 1814 Utc	???	30 chr EAM NMDBTH JAZ23ZGMTSD7XRPZZWTQCKM

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## LOGS SECTION

The logs are sorted on code, date and time.

Code	Freq	Date	UTC	Day	Details	Mode	ctrb
---	3783	23-3	1906	Thu	8CP K (sent 1x per minute for at least 5 minutes)	CW	(JPL-NZL)
---	3197	25-3	1810	Sat	VVV RWG RWG RWG DE 1437 1437 QTR 2340 QSA ? 24698 24698 K	CW	(F5JBR-J)
---	8600	30-3	0700	Thu	XSV Tianjin Radio with identical messages as M95	CW	(JPL-J)
E06	5186	2-3	2030	Thu	891 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000	USB	(MPJ)
E06	5183	3-3	2130	Fri	634 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000	USB	(AB/HFD)
E06	16303	15-3	1240	Wed	657 138 47 ... 01542 52186 12520 05619 32687 48159 28694 72957 86386 68029 83131 82152 65264 98040 26843 08212 138 47 00000	USB	(Danix)
E06	16083	15-3	1340	Wed	346 197 42 44373 08948 63062 ... 71813 36489 80953 197 42 00000	USB	(Danix/ES)
E06	12202	15-3	1430	Wed	158 637 52 63293 38015 50549 ... 85264 74837 56109 637 52 00000	USB	(Danix)
E06	12119	15-3	1440	Wed	346 197 42 44373 08948 63062 ... 71813 36489 80953 197 42 00000	USB	(Danix)
E06	8022	15-3	1530	Wed	158 637 52 63293 38015 50549 ... 85264 74837 56109 637 52 00000	USB	(Danix)
E06	13377	15-3	1748	Wed	i.p. 06085 60364 65346 53414 65472 61783 90707 73068 13146 71538 97241 46269 51089 27340 86782 29610 67667 890 45 00000	USB	(AB)
E06	16230	16-3	0600	Thu	864 275 103 64964 28192 89292 ... 77201 14516 62928 275 103 00000	USB	(AB-RUS/ES-I)
E06	19325	16-3	0700	Thu	864 275 103 64964 28192 89292 ... 77201 14516 62928 275 103 00000	USB	(ES-I)
E06	5186	16-3	2030	Thu	891 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000. Windows XP shut down sound	USB	(AB/MPJ/HFD)
E06	5186	16-3	2030	Thu	891 149 52 12265	USB	(HFD)
E06	5187	17-3	2130	Fri	634 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000 Windows XP shutdown sound	USB	(AB)
E07	13439	1-3	1800	Wed	417 417 417 000	AM	(AB/MPJ/HFD)
E07	12139	1-3	1820	Wed	417 417 417 000	AM	(AB/MPJ/HFD)
E07	10651	1-3	2000	Wed	616 1 428 14 90048	USB	(HFD)
E07	9151	1-3	2020	Wed	616 1 428 14 90048	USB	(HFD)
E07	7651	1-3	2040	Wed	616 1 428 14 90048	USB	(HFD)
E07	7516	2-3	2110	Thu	584 584 584 000	AM	(AB-RUS)
E07	5836	2-3	2130	Thu	584 584 584 000	AM	(AB-RUS)
E07	10112	4-3	0700	Sat	111 1 505 54 54002 86792 41195 ... 96083 01975 88502 000 000	USB	(AB/HFD)
E07	11112	4-3	0720	Sat	111 1 505 54 54002 86792 41195 ... 96083 01975 88502 000 000	USB	(AB/HFD)
E07	12112	4-3	0740	Sat	111 1 505 54 54002 86792 41195 ... 96083 01975 88502 000 000	USB	(AB/HFD)
E07	10112	5-3	0700	Sun	111 1 505 54 54002 86792 41195 ... 96083 01975 88502 000 000	USB	(AB)
E07	11112	5-3	0720	Sun	111 1 505 54 54002 86792 41195 ... 96083 01975 88502 000 000	USB	(AB)
E07	12112	5-3	0740	Sun	111 1 505 54 54002 86792 41195 ... 96083 01975 88502 000 000	USB	(AB)
E07	13439	5-3	1800	Sun	417 417 417 000	AM	(AB-RUS)
E07	10651	6-3	2000	Mon	616 616 616 000	USB	(RL)
E07	9151	6-3	2020	Mon	616 616 616 000	USB	(AnEur)
E07	9060	7-3	0945	Tue	687 1 5436 21 00098 97269 66394 ... 84971 10284 07385 000 000	USB	(ES)
E07	13439	8-3	1800	Wed	417 1 422 84 31804 31081 03778 14448 42892 ... 21319 86030 50920 56026 40460 000 000	AM	(AB)
E07	12139	8-3	1820	Wed	417 1 422 84 31804 31081 03778 14448 42892 ... 21319 86030 50920 56026 40460 000 000	AM	(MPJ)
E07	10739	8-3	1840	Wed	417 1 422 84 31804 31081 03778 14448 42892 ... 21319 86030 50920 56026 40460 000 000	AM	(MPJ)
E07	10651	8-3	2000	Wed	616 1 428 14 90048 40005 36295 02253 91468 85697 65098 89724 68557 50304 67909 68147 06572 34433 000 000	USB	(AB)
E07	9151	8-3	2020	Wed	616 1 428 14 90048 40005 36295 02253 91468 85697 65098 89724 68557 50304 67909 68147 06572 34433 000 000	USB	(AB)
E07	7651	8-3	2040	Wed	616 1 428 14 90048 40005 36295 02253 91468 85697 65098 89724 68557 50304 67909 68147 06572 34433 000 000	USB	(AB/CR)
E07	10112	11-3	0700	Sat	111 1 118 16 22522 79236 52228 69189 86477 10092 37328 07660 60461 19502 61309 07240 07956 38182 07259 10951 000 000	USB	(AB)
E07	11112	11-3	0720	Sat	111 1 118 16 22522 79236 52228 69189 86477 10092 37328 07660 60461 19502 61309 07240 07956 38182 07259 10951 000 000	USB	(AB)
E07	12112	11-3	0740	Sat	111 1 118 16 22522 79236 52228 69189 86477 10092 37328 07660 60461 19502 61309 07240 07956 38182 07259 10951 000 000	USB	(AB)

E07	10112	12-3	0700	Sun	111 1 118 16 22522 79236 52228 69189 86477 10092 37328 07660 60461 19502 61309 07240 07956 38182 07259 10951 000 000	USB	(AB/BvR/ES)
E07	11112	12-3	0720	Sun	111 1 118 16 22522 79236 52228 69189 86477 10092 37328 07660 60461 19502 61309 07240 07956 38182 07259 10951 000 000	USB	(AB/BvR/ES)
E07	12112	12-3	0740	Sun	111 1 118 16 22522 79236 52228 69189 86477 10092 37328 07660 60461 19502 61309 07240 07956 38182 07259 10951 000 000	USB	(AB/SG/ES)
E07	13439	12-3	1800	Sun	417 2 422 84 31906 31081 03778 14448 42892 ... 21319 86030 50920 56026 40460 000 000	AM	(MPJ)
E07	10739	12-3	1840	Sun	417 2 422 84 31906 31081 03778 14448 42892 ... 21319 86030 50920 56026 40460 000 000	AM	(MPJ)
E07	10651	13-3	2000	Mon	616 1 428 14 90048 40005 36295 02253 91468 85697 65098 89724 68557 50304 67909 68147 06572 34433 000 000	USB	(AB/MPJ/RL)
E07	9151	13-3	2020	Mon	616 1 428 14 90048 40005 36295 02253 91468 85697 65098 89724 68557 50304 67909 68147 06572 34433 000 000	USB	(AB/MPJ/RL)
E07	7651	13-3	2040	Mon	616 1 428 14 90048 40005 36295 02253 91468 85697 65098 89724 68557 50304 67909 68147 06572 34433 000 000	USB	(AB/MPJ/RL)
E07	13439	15-3	1800	Wed	417 1 543 62 62749 07877 08720 ... 55563 49427 70394 000 000	AM	(AB/MPJ)
E07	12139	15-3	1820	Wed	417 1 543 62 62749 07877 08720 ... 55563 49427 70394 000 000	AM	(AB/MPJ)
E07	10739	15-3	1840	Wed	417 1 543 62 62749 07877 08720 ... 55563 49427 70394 000 000	AM	(AB/MPJ)
E07	10651	15-3	2000	Wed	616 1 428 14 90048 90005 36295 02253 91468 85697 65098 89724 68557 50304 67909 68147 06572 34433 000 000	USB	(AB/MPJ)
E07	9151	15-3	2020	Wed	616 1 428 14 90048 90005 36295 02253 91468 85697 65098 89724 68557 50304 67909 68147 06572 34433 000 000	USB	(AB/RL/MPJ)
E07	7651	15-3	2040	Wed	616 1 428 14 90048 90005 36295 02253 91468 85697 65098 89724 68557 50304 67909 68147 06572 34433 000 000	USB	(AB/MPJ)
E07	7516	16-3	2110	Thu	584 584 584 000. Very poor, distorted audio	AM	(AB/HFD)
E07	5836	16-3	2130	Thu	584 584 584 000	AM	(AB/HFD)
E07	10112	18-3	0700	Sat	111 111 111 000	USB	(AB/ES)
E07	11112	18-3	0720	Sat	111 111 111 000	USB	(AB/SG/ES)
E07	10112	19-3	0700	Sun	111 111 111 000	USB	(AB/SP1)
E07	11112	19-3	0720	Sun	111 111 111 000	USB	(AB)
E07	13439	19-3	1800	Sun	417 2 543 62 62749 07877 08720 ... 55563 49427 70394 417 2 422 84 31906 31081 03778 ... 50920 56026 40460 000 000	AM	(AB-G)
E07	12139	19-3	1820	Sun	417 2 543 62 62749 07877 08720 ... 55563 49427 70394 417 2 422 84 31906 31081 03778 ... 50920 56026 40460 000 000	AM	(AB-G)
E07	10739	19-3	1840	Sun	417 2 543 62 62749 07877 08720 ... 55563 49427 70394 417 2 422 84 31906 31081 03778 ... 50920 56026 40460 000 000	AM	(AB/CS)
E07	10651	20-3	2000	Mon	616 616 616 000	USB	(AB/MPJ/RL)
E07	9151	20-3	2020	Mon	616 616 616 000	USB	(AB/MPJ/RL)
E07	9345	21-3	0902	Tue	i.p. 70484 83403 81474 76736 22484 85938 01175 10480 55386 43024 90629 55636 33013 69722 71920 78620 000 000	USB	(ES)
E07	19118	21-3	1100	Tue	149 1 1745 129 08118 65754 23897 ... 64285 54907 94072 000 000	USB	(AB/ES/HFD)
E07	17418	21-3	1120	Tue	149 1 1745 129 08118 65754 23897 ... 64285 54907 94072 000 000	USB	(AB/ES/HFD)
E07	15918	21-3	1140	Tue	149 1 1745 129 08118 65754 23897 ... 64285 54907 94072 000 000	USB	(AB/ES/HFD)
E07	13439	22-3	1800	Wed	417 2 543 62 62749 07877 08720 ... 55563 49427 70394 417 2 422 84 31906 31081 03778 ... 50920 56026 40460 000 000	AM	(AB-RUS)
E07	12139	22-3	1820	Wed	417 2 543 62 62749 07877 08720 ... 55563 49427 70394 417 2 422 84 31906 31081 03778 ... 50920 56026 40460 000 000	AM	(AB-RUS)
E07	10739	22-3	1840	Wed	417 2 543 62 62749 07877 08720 ... 55563 49427 70394 417 2 422 84 31906 31081 03778 ... 50920 56026 40460 000 000	AM	(AB-G)
E07	10651	22-3	2000	Wed	616 616 616 000	USB	(AB/MPJ/RL)
E07	9151	22-3	2020	Wed	616 616 616 000	USB	(AB/MPJ)
E07	7516	23-3	2110	Thu	584 584 584 000	AM	(AB)
E07	5836	23-3	2130	Thu	584 584 584 000	AM	(AB)
E07	19118	24-3	1100	Fri	149 1 1745 129 08118 65754 23897 ... 64285 54907 94072 000 000	USB	(AB-AUT)
E07	17418	24-3	1120	Fri	149 1 1745 129 08118 65754 23897 ... 64285 54907 94072 000 000	USB	(AB-RUS/RL)
E07	15918	24-3	1140	Fri	149 1 1745 129 08118 65754 23897 ... 64285 54907 94072 000 000	USB	(AB-RUS)
E07	10112	25-3	0700	Sat	111 111 111 000	USB	(AB/ES)
E07	11112	25-3	0720	Sat	111 111 111 000	USB	(AB/ES)
E07	10112	26-3	0700	Sun	111 111 111 000	USB	(AB)
E07	11112	26-3	0720	Sun	111 111 111 000	USB	(AB)
E07	13439	26-3	1800	Sun	417 417 417 000	AM	(AB-RUS)
E07	12139	26-3	1820	Sun	417 417 417 000	AM	(AB-RUS)
E07	10651	27-3	2000	Mon	616 616 616 000	USB	(AB)
E07	9151	27-3	2020	Mon	616 616 616 000	USB	(AB/MPJ)
E07	19118	28-3	1100	Tue	149 149 149 000	USB	(AB- RUS/RL/ES)

E07	17418	28-3	1120	Tue	149 149 149 000	USB	(AB-RUS/ES)
E07	13439	29-3	1800	Wed	417 1 866 83 36440 83922 63930 ... 88345 46673 69807 000 000	AM	(AB/MPJ)
E07	12139	29-3	1820	Wed	417 1 866 83 36440 83922 63930 ... 88345 46673 69807 000 000	AM	(AB)
E07	10739	29-3	1840	Wed	417 1 866 83 36440 83922 63930 ... 88345 46673 69807 000 000	AM	(AB/W9SPY)
E07	10651	29-3	2000	Wed	616 616 616 000	USB	(AB/MPJ)
E07	9151	29-3	2020	Wed	616 616 616 000	USB	(AB)
E07	7516	30-3	2110	Thu	584 584 584 000	AM	(AB)
E07	5836	30-3	2130	Thu	584 584 584 000	AM	(AB)
E07	17418	31-3	1120	Fri	149 149 149 000	USB	(AB-RUS)
E07a	5877	1-3	2100	Wed	825 825 825 000	USB	(AB/RL)
E07a	5277	1-3	2120	Wed	825 825 825 000	USB	(AB/RL)
E07a	6922	2-3	0530	Thu	913 913 913 000	USB	(AB/ES/CS/HFD)
E07a	8122	2-3	0550	Thu	913 913 913 000	USB	(AB/ES/HFD)
E07a	11473	3-3	1610	Fri	413 413 413 000	USB	(AB/MPJ/HFD)
E07a	10173	3-3	1630	Fri	413 413 413 000	USB	(AB/MPJ/HFD)
E07a	11133	4-3	0900	Sat	114 114 114 000	USB	(AB/HFD)
E07a	12133	4-3	0920	Sat	114 114 114 000	USB	(AB/HFD)
E07a	5877	8-3	2100	Wed	825 825 825 000	USB	(AB/MPJ/RL)
E07a	5277	8-3	2120	Wed	825 825 825 000	USB	(AB/RL/CR)
E07a	6922	9-3	0530	Thu	913 913 913 000	USB	(AB/ES)
E07a	8122	9-3	0550	Thu	913 913 913 000	USB	(AB/ES)
E07a	11473	10-3	1610	Fri	413 413 413 000	USB	(AB)
E07a	10173	10-3	1630	Fri	413 413 413 000	USB	(AB/MPJ)
E07a	11133	11-3	0900	Sat	114 114 114 000	USB	(AB/ES)
E07a	12133	11-3	0920	Sat	114 114 114 000	USB	(AB)
E07a	5877	15-3	2100	Wed	825 1 17370 7046 55 09098 26158 25207 ... 17544 29316 68458 000 000	USB	(AB)
E07a	5277	15-3	2120	Wed	825 1 17370 7046 55 09098 26158 25207 ... 17544 29316 68458 000 000	USB	(AB)
E07a	4577	15-3	2140	Wed	825 1 17370 7046 55 09098 26158 25207 ... 17544 29316 68458 000 000	USB	(AB)
E07a	6922	16-3	0530	Thu	913 1 17370 7046 55 09098 26158 25207 ... 17544 29316 68458 000 000	USB	(AB/ES)
E07a	8122	16-3	0550	Thu	913 1 17370 7046 55 09098 26158 25207 ... 17544 29316 68458 000 000	USB	(AB/ES)
E07a	9322	16-3	0610	Thu	913 1 17370 7046 55 09098 26158 25207 ... 17544 29316 68458 000 000	USB	(AB/ES)
E07a	11473	17-3	1610	Fri	413 413 413 000	USB	(AB/MPJ)
E07a	10173	17-3	1630	Fri	413 413 413 000	USB	(AB)
E07a	11133	18-3	0900	Sat	114 114 114 000	USB	(AB/SG/ES)
E07a	12133	18-3	0920	Sat	114 114 114 000	USB	(AB/ES)
E07a	5877	22-3	2100	Wed	825 1 17370 7046 55 09098 26158 25207 ... 17544 29316 68458 000 000	USB	(AB/RL)
E07a	5277	22-3	2120	Wed	825 1 17370 7046 55 09098 26158 25207 ... 17544 29316 68458 000 000	USB	(AB/RL)
E07a	4577	22-3	2140	Wed	825 1 17370 7046 55 09098 26158 25207 ... 17544 29316 68458 000 000	USB	(AB)
E07a	6922	23-3	0530	Thu	913 1 17370 7046 55 09098 26158 25207 ... 17544 29316 68458 000 000	USB	(AB/ES)
E07a	8122	23-3	0550	Thu	913 1 17370 7046 55 09098 26158 25207 ... 17544 29316 68458 000 000	USB	(AB/ES)
E07a	9322	23-3	0610	Thu	913 1 17370 7046 55 09098 26158 25207 ... 17544 29316 68458 000 000	USB	(AB/ES)
E07a	11473	24-3	1610	Fri	413 413 413 000	USB	(AB/MPJ)
E07a	10173	24-3	1630	Fri	413 413 413 000	USB	(AB/MPJ)
E07a	11133	25-3	0900	Sat	114 114 114 000	USB	(AB)
E07a	12133	25-3	0920	Sat	114 114 114 000	USB	(AB)
E07a	5877	29-3	2100	Wed	825 825 825 000	USB	(AB)
E07a	5277	29-3	2120	Wed	825 825 825 000	USB	(AB)
E07a	6922	30-3	0530	Thu	913 913 913 000	USB	(AB)
E07a	8122	30-3	0550	Thu	913 913 913 000	USB	(AB)
E07a	11473	31-3	1610	Fri	413 413 413 000	USB	(AB)
E07a	10173	31-3	1630	Fri	413 413 413 000	USB	(AB/MPJ/GHn )
E11	7850	1-3	0315	Wed	251/00	USB	(ES)
E11	15915	1-3	0545	Wed	348/00	USB	(AB/HFD)
E11	15915	1-3	0545	Wed	348/00	USB	(ES-UKR)
E11	11450	1-3	0805	Wed	315/00	USB	(AB-POL/HFD)
E11	9399	1-3	0900	Wed	534/00	USB	(AB)
E11	9399	1-3	0900	Wed	534/00	USB	(HFD)
E11	8803	1-3	0930	Wed	273/00	USB	(AB/ES/HFD)
E11	9443	1-3	1205	Wed	461/00	USB	(AB/MPJ/ES/HFD)
E11	10448	1-3	1625	Wed	975/00	USB	(AB/MPJ)
E11	10213	1-3	1705	Wed	396/00	USB	(AB/MPJ/HFD)



E11	5844	1-3	1730	Wed	405/00	USB	(AB/MPJ/HFD)
E11	7317	2-3	0530	Thu	647/00	USB	(ES)
E11	7317	2-3	0530	Thu	647/00	USB	(AB/HFD)
E11	10800	2-3	0645	Thu	511/00	USB	(AB/ES/HFD)
E11	14769	2-3	0710	Thu	495/00	USB	(AB)
E11	14575	2-3	0745	Thu	337/00	USB	(AB)
E11	8803	2-3	0930	Thu	279/00	USB	(AB/HFD)
E11	10302	2-3	1300	Thu	581/00	USB	(ES/HFD)
E11	10330	2-3	1530	Thu	267/00	USB	(AB/MPJ/HFD)
E11	9371	2-3	1730	Thu	412/00	USB	(MPJ)
E11	10620	2-3	1925	Thu	553/00	USB	(HFD)
E11	15915	3-3	0545	Fri	346/00	USB	(AB-POL)
E11	15825	3-3	0730	Fri	350/00	USB	(AB-POL)
E11	7840	3-3	1000	Fri	306/00	USB	(AB)
E11	20286	3-3	1225	Fri	522/00	USB	(HFD)
E11	7377	3-3	2000	Fri	570/00	USB	(AB/MPJ)
E11	14769	4-3	0710	Sat	489/00	USB	(AB-POL)
E11	10302	4-3	1300	Sat	585/00	USB	(AB)
E11	13046	4-3	1345	Sat	919/00	USB	(AB/HFD)
E11	5844	4-3	1730	Sat	402/00	USB	(AB)
E11	8186	4-3	2005	Sat	369/00	USB	(AB/HFD)
E11	11450	5-3	0805	Sun	311/00	USB	(AB)
E11	6397	5-3	1605	Sun	230/00	USB	(AB/MPJ/HFD)
E11	10448	5-3	1625	Sun	977/00	USB	(AB/MPJ)
E11	13470	5-3	1745	Sun	249/00	USB	(AB)
E11	8186	5-3	2005	Sun	363/00	USB	(AB/MPJ/HFD)
E11	6304	6-3	0450	Mon	412/00	USB	(AB)
E11	7317	6-3	0530	Mon	647/00	USB	(AB)
E11	10213	6-3	0745	Mon	266/00	USB	(AB)
E11	9399	6-3	0900	Mon	535/00	USB	(AB)
E11	20286	6-3	1225	Mon	528/00	USB	(AB)
E11	13470	6-3	1745	Mon	244/00	USB	(AB-POL/HFD)
E11	10800	7-3	0645	Tue	517/00	USB	(AB/ES)
E11	9963	7-3	0710	Tue	632/00	USB	(ES)
E11	14575	7-3	0745	Tue	331/00	USB	(AB/ES/HFD)
E11	7840	7-3	1000	Tue	305/00	USB	(AB/ES/HFD)
E11	9443	7-3	1205	Tue	464/00	USB	(AB/ES)
E11	13046	7-3	1345	Tue	915/00	USB	(AB/ES)
E11	6397	7-3	1605	Tue	236/00	USB	(AB/MPJ)
E11	10620	7-3	1925	Tue	522/00	USB	(AB)
E11	15915	8-3	0545	Wed	340/00	USB	(AB/ES)
E11	11450	8-3	0805	Wed	314/00	USB	(AB-POL/ES)
E11	9399	8-3	0900	Wed	537/00	USB	(AB/ES)
E11	9443	8-3	1205	Wed	466/00	USB	(AB/MPJ)
E11	10448	8-3	1625	Wed	977/00	USB	(AB/GHn/MPJ )
E11	7317	9-3	0530	Thu	649/00	USB	(AB/ES)
E11	10800	9-3	0645	Thu	512/00	USB	(AB/ES)
E11	14769	9-3	0710	Thu	495/00	USB	(AB-POL/ES)
E11	14575	9-3	0745	Thu	337/00	USB	(AB)
E11	10302	9-3	1300	Thu	580/00	USB	(AB)
E11	10330	9-3	1530	Thu	260/00	USB	(AB/MPJ)
E11	9371	9-3	1730	Thu	418/00	USB	(MPJ)
E11	15915	10-3	0545	Fri	344/00	USB	(AB-POL)
E11	9963	10-3	0710	Fri	632/00	USB	(AB)
E11	15825	10-3	0730	Fri	358/00	USB	(AB)
E11	7840	10-3	1000	Fri	302/00	USB	(AB/ES)
E11	13873	10-3	1650	Fri	921/00	USB	(AB/MPJ/HFD)
E11	14769	11-3	0710	Sat	492/00	USB	(AB-POL)
E11	10302	11-3	1300	Sat	587/00	USB	(AB)
E11	13046	11-3	1345	Sat	917/00	USB	(AB/MPJ)
E11	11450	12-3	0805	Sun	314/00	USB	(AB)
E11	6397	12-3	1605	Sun	233/00	USB	(AB/MPJ)
E11	10448	12-3	1625	Sun	972/00	USB	(AB/MPJ/SG)
E11	13873	12-3	1650	Sun	929/00	USB	(MPJ)
E11	7317	13-3	0530	Mon	640/00	USB	(AB)
E11	12202	13-3	0600	Mon	189/00	USB	(HFD)
E11	10125	13-3	0820	Mon	438/00	USB	(AB)
E11	9399	13-3	0900	Mon	536/00	USB	(AB)
E11	10800	14-3	0645	Tue	511/00	USB	(AB/ES)
E11	9963	14-3	0710	Tue	635/00	USB	(AB/ES/HFD)
E11	7840	14-3	1000	Tue	302/00	USB	(AB/ES)
E11	8102	14-3	1045	Tue	574/00	USB	(AB/ES/MPJ)
E11	9443	14-3	1205	Tue	465/00	USB	(AB/ES/MPJ)
E11	6397	14-3	1605	Tue	230/00	USB	(AB/MPJ)
E11	10620	14-3	1925	Tue	522/00	USB	(AB)

E11	7850	15-3	0315	Wed	258/00	USB	(ES)
E11	9399	15-3	0900	Wed	537/00	USB	(AB)
E11	8803	15-3	0930	Wed	276/00	USB	(AB/ES)
E11	9443	15-3	1205	Wed	463/00	USB	(AB)
E11	10213	15-3	1705	Wed	392/00	USB	(AB/MPJ)
E11	5844	15-3	1730	Wed	400/00	USB	(AB/MPJ)
E11	7850	16-3	0315	Thu	258/00	USB	(HFD)
E11	7317	16-3	0530	Thu	648/00	USB	(AB/ES)
E11	10800	16-3	0645	Thu	517/00	USB	(AB)
E11	10125	16-3	0820	Thu	432/00	USB	(AB)
E11	8803	16-3	0930	Thu	276/00	USB	(AB/ES)
E11	10302	16-3	1300	Thu	589/00	USB	(AB/ES)
E11	9371	16-3	1730	Thu	414/00	USB	(AB/MPJ/HFD)
E11	12202	17-3	0600	Fri	180/00	USB	(ES)
E11	9963	17-3	0710	Fri	630/00	USB	(AB)
E11	7840	17-3	1000	Fri	302/00	USB	(AB/ES)
E11	13873	17-3	1650	Fri	921/00	USB	(MPJ)
E11	7377	17-3	2000	Fri	571/00	USB	(AB)
E11	10302	18-3	1300	Sat	585/00	USB	(AB/ES)
E11	10213	18-3	1705	Sat	392/00	USB	(AB/MPJ/ES)
E11	5844	18-3	1730	Sat	404/00	USB	(AB)
E11	8186	18-3	2005	Sat	363/00	USB	(AB)
E11	6397	19-3	1605	Sun	233/00	USB	(AB)
E11	13873	19-3	1650	Sun	926/00	USB	(AB)
E11	8186	19-3	2005	Sun	367/00	USB	(AB/GHn)
E11	6304	20-3	0450	Mon	411/00	USB	(AB)
E11	10213	20-3	0745	Mon	260/00	USB	(AB/SG)
E11	20286	20-3	1225	Mon	527/00	USB	(AB-POL)
E11	13470	20-3	1745	Mon	247/00	USB	(AB)
E11	9963	21-3	0710	Tue	637/00	USB	(AB/ES/HFD)
E11	14575	21-3	0745	Tue	333/00	USB	(AB/ES)
E11	7840	21-3	1000	Tue	300/00	USB	(AB)
E11	8102	21-3	1045	Tue	573/00	USB	(AB/ES)
E11	9443	21-3	1205	Tue	465/00	USB	(AB/MPJ)
E11	13046	21-3	1345	Tue	915/00	USB	(AB/MPJ/ES)
E11	10620	21-3	1925	Tue	522/00	USB	(AB)
E11	15915	22-3	0545	Wed	347/00	USB	(AB-POL)
E11	11450	22-3	0805	Wed	315/00	USB	(AB-POL)
E11	9443	22-3	1205	Wed	465/00	USB	(AB/MPJ/ES)
E11	10448	22-3	1625	Wed	975/00	USB	(AB/MPJ)
E11	10213	22-3	1705	Wed	399/00	USB	(AB)
E11	5844	22-3	1730	Wed	400/00	USB	(AB/MPJ)
E11	14575	23-3	0745	Thu	332/00	USB	(AB)
E11	10330	23-3	1530	Thu	266/00	USB	(AB/MPJ)
E11	9371	23-3	1730	Thu	414/00	USB	(AB-GRC/MPJ)
E11	10620	23-3	1925	Thu	520/00	USB	(AB/MPJ)
E11	9963	24-3	0710	Fri	637/00	USB	(AB)
E11	7840	24-3	1000	Fri	305/00	USB	(AB)
E11	20286	24-3	1225	Fri	525/00	USB	(AB-AUT)
E11	13873	24-3	1650	Fri	921/00	USB	(AB/MPJ)
E11	7377	24-3	2000	Fri	571/00	USB	(AB)
E11	14769	25-3	0710	Sat	492/00	USB	(AB-POL)
E11	13046	25-3	1345	Sat	919/00	USB	(MPJ)
E11	10213	25-3	1705	Sat	399/00	USB	(MPJ)
E11	5844	25-3	1730	Sat	403/00	USB	(MPJ)
E11	15825	26-3	0730	Sun	359/00	USB	(AB/HFD)
E11	11450	26-3	0805	Sun	310/00	USB	(AB)
E11	10448	26-3	1625	Sun	976/00	USB	(AB/MPJ)
E11	13873	26-3	1650	Sun	922/00	USB	(AB/MPJ)
E11	13470	26-3	1745	Sun	248/00	USB	(AB-POL)
E11	8186	26-3	2005	Sun	369/00	USB	(MPJ)
E11	7317	27-3	0530	Mon	643/00	USB	(AB)
E11	12202	27-3	0600	Mon	182/00	USB	(AB)
E11	10213	27-3	0745	Mon	269/00	USB	(AB)
E11	10125	27-3	0820	Mon	432/00	USB	(AB)
E11	9399	27-3	0900	Mon	533/00	USB	(AB)
E11	13470	27-3	1745	Mon	248/00	USB	(AB)
E11	10800	28-3	0645	Tue	511/00	USB	(AB/ES)
E11	14575	28-3	0745	Tue	338/00	USB	(AB)
E11	8102	28-3	1045	Tue	579/00	USB	(AB/ES)
E11	13046	28-3	1345	Tue	911/00	USB	(AB)
E11	16397	28-3	1605	Tue	235/00	USB	(AB/MPJ)
E11	11450	29-3	0805	Wed	312/00	USB	(AB)
E11	9399	29-3	0900	Wed	530/00	USB	(AB)
E11	10448	29-3	1625	Wed	970/00	USB	(AB/MPJ)
E11	10213	29-3	1705	Wed	395/00	USB	(AB)



E11	5844	29-3	1730	Wed	402/00	USB	(AB/MPJ)
E11	7317	30-3	0530	Thu	641/00	USB	(AB)
E11	10800	30-3	0645	Thu	514/00	USB	(AB)
E11	14769	30-3	0710	Thu	492/00	USB	(AB)
E11	14575	30-3	0745	Thu	335/00	USB	(AB)
E11	6804	30-3	0820	Thu	434/00	USB	(AB)
E11	10302	30-3	1300	Thu	583/00	USB	(AB/MPJ)
E11	10330	30-3	1530	Thu	261/00	USB	(AnEur)
E11	15915	31-3	0545	Fri	340/00	USB	(AB-POL)
E11	12202	31-3	0600	Fri	181/00	USB	(AB-POL)
E11	15825	31-3	0730	Fri	354/00	USB	(AB)
E11	13873	31-3	1650	Fri	924/00	USB	(AB)
E11	7377	31-3	2000	Fri	570/00	USB	(AB/GHn/MPJ )
E11a	13873	3-3	1650	Fri	924/39 Attention 46890 32729 73472 ... 52315 10415 00432 Attention, rpt msg, out	USB	(AB)
E11a	13873	5-3	1650	Sun	924/39 Attention ...	USB	(AB)
E11a	10125	6-3	0820	Mon	436/36 Attention 93143 36577 78798 ... 35934 94268 64478 Attention, rpt msg, out	USB	(AB/HFD)
E11a	8186	7-3	0930	Tue	i.p. 30781 32427 05203 02665 50312 ... 85594 75693 67014 64702 65523	USB	(ES)
E11a	8102	7-3	1045	Tue	579/31 Attention 69089 19880 92460 ... 57633 63984 26073 Attention, rpt msg, out	USB	(AB/ES/HFD)
E11a	8803	8-3	0930	Wed	275/39 Attention 00681 05611 06798 ... 16653 43915 76328 Attention, rpt msg, out	USB	(AB/ES)
E11a	10213	8-3	1705	Wed	390/38 Attention 97998 68925 36928 ... 71213 00926 06404 Attention, rpt msg, out	USB	(AB/MPJ)
E11a	5844	8-3	1730	Wed	402/35 Attention 83436 01573 25499 ... 74577 23257 14386 Attention, rpt msg, out	USB	(AB/MPJ)
E11a	7850	9-3	0315	Thu	255/30 Attention 76992 80894 98416 ... 14962 62293 79235 Attention, rpt msg, out	USB	(ES-AUT)
E11a	10125	9-3	0820	Thu	436/36 Attention 93143 36577 78798 ... 35934 94268 64478 Attention, rpt msg, out	USB	(AB/ES)
E11a	8803	9-3	0930	Thu	275/39 Attention 00681 05611 06798 ... 16653 43915 76328 Attention, rpt msg, out	USB	(AB)
E11a	7377	10-3	2000	Fri	579/31 Attention ...	USB	(AB)
E11a	7377	10-3	2000	Fri	579/31 69089	USB	(HFD)
E11a	10213	11-3	1705	Sat	390/38 Attention 97998 68925 36928 ... 71213 00926 06404 Attention, rpt msg, out	USB	(AB/MPJ)
E11a	5844	11-3	1730	Sat	402/35 Attention 83436 01573 25499 ... 74577 23257 14386 Attention, rpt msg, out	USB	(AB/MPJ)
E11a	8186	11-3	2005	Sat	368/37 Attention 05054 95064 56385 ... 20169 97098 85090 Attention, rpt msg, out	USB	(AB)
E11a	8186	12-3	2005	Sun	368/37 Attention 05054 95064 56385 ... 20169 97098 85090 Attention, rpt msg, out	USB	(AB)
E11a	10213	13-3	0745	Mon	269/39 Attention 88609 89638 29066 ... 32017 12462 88207 Attention, rpt msg, out	USB	(AB)
E11a	13470	13-3	1745	Mon	244/34 Attention 34546 78606 65122 ... 18613 57248 71126 Attention, rpt msg, out	USB	(AB-POL)
E11a	14575	14-3	0745	Tue	333/35 Attention 43281 93312 10178 ... 90890 50584 93329 Attention, rpt msg, out	USB	(AB)
E11a	13046	14-3	1345	Tue	914/35 Attention 10566 87630 29380 00225 ...	USB	(AB/MPJ)
E11a	15915	15-3	0545	Wed	340/31 Attention 45462 56964 77708 ... 65079 62648 61083 Attention, rpt msg, out	USB	(AB-POL)
E11a	11450	15-3	0805	Wed	319/32 Attention 95342 38373 52736 ... 49479 57177 00813 Attention, rpt msg, out	USB	(AB-POL)
E11a	10448	15-3	1625	Wed	975/33 Attention 03910 00582 36645 ... 74344 23760 56367 Attention, rpt msg, out	USB	(AB/W9SPY/M PJ)
E11a	14769	16-3	0710	Thu	495/31 Attention 21188 47592 49943 ... 26666 76816 82625 Attention, rpt msg, out	USB	(AB-POL)
E11a	14575	16-3	0745	Thu	333/35 Attention 43281 93312 10178 ... 90890 50584 93329 Attention, rpt msg, out	USB	(AB)
E11a	10330	16-3	1530	Thu	269/39 Attention 88609 89638 29066 ... 32017 12462 88207 Attention, rpt msg, out	USB	(AB/GHn/MPJ )
E11a	15915	17-3	0545	Fri	340/31 Attention 45462 56964 77708 ... 65079 62648 61083 Attention, rpt msg, out	USB	(AB-POL)
E11a	15825	17-3	0730	Fri	358/34 Attention 67612 02487 56298 ... 29410 92196 09003 Attention, rpt msg, out	USB	(AB)
E11a	14769	18-3	0710	Sat	495/31 Attention 21188 47592 49943 ... 26666 76816 82625 Attention, rpt msg, out	USB	(AB-POL)
E11a	15825	19-3	0730	Sun	358/34 Attention 67612 02487 56298 ... 29410 92196 09003 Attention, rpt msg, out	USB	(AB/F5JBR)
E11a	11450	19-3	0805	Sun	319/32 Attention 95342 38373 52736 ... 49479 57177 00813 Attention, rpt msg, out	USB	(AB)
E11a	10448	19-3	1625	Sun	975/33 Attention 03910 00582 36645 ... 74344 23760 56367 Attention, rpt msg, out	USB	(AB/SG)

E11a	13470	19-3	1745	Sun	244/34 Attention 34546 78606 65122 ... 18613 57248 71126 Attention, rpt msg, out	USB	(AB-POL)
E11a	7317	20-3	0530	Mon	646/35 Attention 16411 43516 11394 ... 40332 94478 94791 Attention, rpt msg, out	USB	(AB-POL)
E11a	12202	20-3	0600	Mon	183/38 Attention 35563 00385 87898 ... 66307 61599 59282 Attention, rpt msg, out	USB	(AB-POL)
E11a	9399	20-3	0900	Mon	538/38 Attention 37557 57984 62195 ... 08028 67506 26767 Attention, rpt msg, out	USB	(AB)
E11a	10800	21-3	0645	Tue	510/35 Attention 43934 37883 35660 ... 17199 39255 94577 Attention, rpt msg, out	USB	(AB/SP1/ES)
E11a	6397	21-3	1605	Tue	238/32 Attention 15584 99612 66235 ... 83363 53799 65651 Attention, rpt mdg, out	USB	(AB/MPJ)
E11a	9399	22-3	0900	Wed	538/38 Attention 37557 57984 62195 ... 08028 67506 26767 Attention, rpt msg, out	USB	(AB/ES)
E11a	7317	23-3	0530	Thu	646/35 Attention 16411 43516 11394 ... 40332 94478 94791 Attention, rpt msg, out	USB	(AB/ES)
E11a	10800	23-3	0645	Thu	510/35 Attention 43934 37883 35660 ... 17199 39255 94577 Attention, rpt msg, out	USB	(AB)
E11a	10302	23-3	1300	Thu	589/35 Attention 98890 85459 34036 ... 26049 51810 57019 Attention, rpt msg, out	USB	(AB/MPJ/ES)
E11a	12202	24-3	0600	Fri	183/38 Attention 35563 00385 87898 ... 66307 61599 59282 Attention, rpt msg, out	USB	(AB-AUT)
E11a	10302	25-3	1300	Sat	589/35 Attention 98890 85459 34036 ... 26049 51810 57019 Attention, rpt msg, out	USB	(AB)
E11a	6397	26-3	1605	Sun	238/32 Attention 15584 99612 66235 ... 83363 53799 65651 Attention, rpt mdg, out	USB	(AB/MPJ)
E11a	6304	27-3	0450	Mon	410/37 Attention 85524 35285 66333 ... 46714 79977 50627 Attention, rpt msg, out	USB	(AB)
E11a	20286	27-3	1225	Mon	525/34 Attention 45403 33171 47901 ... 19991 27622 04122 Attention, rpt msg, out	USB	(AB-POL)
E11a	9963	28-3	0710	Tue	632/38 Attention 59851 22429 70189 ... 11942 83939 18518 Attention, rpt msg, out	USB	(AB)
E11a	7840	28-3	1000	Tue	300/28 Attention 92300 26885 96811 ... 04564 16117 43875 Attention, rpt msg, out	USB	(AB/ES)
E11a	9443	28-3	1205	Tue	466/40 Attention 92384 85974 89227 ... 17973 37810 32808 Attention, rpt msg, out	USB	(AB/ES)
E11a	10620	28-3	1925	Tue	521/36 Attention 27200 13395 26619 63737 70682 ... 07042 52258 35721 51049 18826	USB	(MPJ)
E11a	9443	29-3	1205	Wed	466/40 Attention 92384 85974 89227 ... 17973 37810 32808 Attention, rpt msg, out	USB	(AB/MPJ)
E11a	9371	30-3	1730	Thu	410/37 Attention 85524 35285 66333 ... 46714 79977 50627 Attention, rpt msg, out	USB	(AB/MPJ)
E11a	10620	30-3	1925	Thu	521/36 Attention 27200 13395 26619 63737 70682 ... 07042 52258 35721 51049 18826	USB	(MPJ)
E11a	9963	31-3	0710	Fri	632/38 Attention 59851 22429 70189 ... 11942 83939 18518 Attention, rpt msg, out	USB	(AB)
E11a	7840	31-3	1000	Fri	300/28 Attention 92300 26885 96811 ... 04564 16117 43875 Attention, rpt msg, out	USB	(AB/MPJ)
E11a	20286	31-3	1225	Fri	525/34 Attention 45403 33171 47901 ... 19991 27622 04122 Attention, rpt msg, out	USB	(AB-POL)
E17z	14260	9-3	0800	Thu	674 230 5 34031 33430 37536 34106 29698 230 5 00000	USB	(AB-POL/HFD)
E17z	12930	9-3	0810	Thu	674 230 5 34031 33430 37536 34106 29698 230 5 00000	USB	(AB-I/HFD)
E17z	14260	16-3	0800	Thu	674 821 5 83605 37436 33134 35868 38013 821 5 00000	USB	(AB/MPJ)
E17z	12930	16-3	0810	Thu	674 821 5 83605 37436 33134 35868 38013 821 5 00000	USB	(AB-I/MPJ)
E17z	14260	23-3	0800	Thu	674 821 5 83605 37436 33134 35868 38013 821 5 00000	USB	(AB-GRC)
E17z	12930	23-3	0810	Thu	674 821 5 83605 37436 33134 35868 38013 821 5 00000	USB	(AB-AUT)
E17z	14260	30-3	0800	Thu	674 674 674 00000	USB	(AB-I)
E17z	12930	30-3	0810	Thu	674 674 674 00000	USB	(AB-I/MPJ)
E25	6140	6-3	0916	Mon	111 Message 9975 7250 2001 5808 9279 5930 8756 3764 5952 7250 Rebeat 9975 7250 2001 5808 9279 5930 8756 3764 5952 7250 EOM EOT	AM	(ES/PW2)
E25	6140	6-3	0922	Mon	950 Message 2002 1020 7190 ... 7107 4226 7190 Rebeat 2002 1020 7190 ... 7107 4226 7190 EOM EOT	AM	(ES/PW2)
E25	6140	8-3	1107	Wed	169 (R) Message 4044 7931 4564 2682 2756 6436 8145 Rebeat 4044 7931 4564 2682 2756 6436 8145 End of message. End of transmission	AM	(ES-ISR/PW2)
E25	6140	8-3	1242	Wed	Enta Omri Intro, 250. Abruptly cut off	AM	(ES-ISR)
E25	6140	9-3	0843	Thu	169 (R) Message 4044 7931 4564 2682 2756 6436 8145 Rebeat 4044 7931 4564 2682 2756 6436 8145 End of message. End of transmission	AM	(ES-ISR)
E25	6140	9-3	0845	Thu	169 Message 4044 7931 4564 2682 2756 6436 8145 Rebeat 4044 7931 4564 2682 2756 6436 8145 EOM EOT	AM	(ES)
E25	9600	20-3	1115	Mon	Near Eastern Music. Test Tone. Carrier Off	AM	(ES-GRC)
EGY	16067.7	12-3	1354	Sun	MFA Cairo, msg to Egyptian embassy Washington	SITOR-A 100/170	(RB2)
EGY	16010	21-3	1445	Tue	MFA Cairo clg TVXS Egyptian embassy Manama	SITOR-A 100/170	(AAI)
EGY	9065.7	28-3	1615	Tue	MFA Cairo clg OOV: Egyptian Embassy New Delhi	SITOR-A 100/170	(AB-NZL)

<b>EGY</b>	16223.7	31-3	1355	Fri	Egyptian diplo	SITOR-A 100/170	(ML4)
<b>F01</b>	10467	1-3	1940	Wed	Russian diplo/intel. 44398 71577 02736 ... 85912 42763 49054 00000	FSK 200/500	(AB-RUS/Danix/HF D)
<b>F01</b>	8094	1-3	1950	Wed	Russian diplo/intel. 44398 71577 02736 ... 85912 42763 49054 00000	FSK 200/500	(AB-RUS/Danix/M PJ/HFD)
<b>F01</b>	6779	1-3	2000	Wed	Russian diplo/intel. Incorrect shift 44398 71577 02736 ... 85912 42763 49054 00000	FSK 200/1000	(AB-RUS/Danix/M PJ/HFD)
<b>F01</b>	10467	3-3	1940	Fri	Russian diplo/intel. 44398 71577 02736 ... 85912 42763 49054 00000	FSK 200/500	(AB-RUS/Danix)
<b>F01</b>	8094	3-3	1950	Fri	Russian diplo/intel. 44398 71577 02736 ... 85912 42763 49054 00000	FSK 200/500	(AB-RUS/Danix/M PJ)
<b>F01</b>	6779	3-3	2000	Fri	Russian diplo/intel. 44398 71577 02736 ... 85912 42763 49054 00000	FSK 200/500	(AB-RUS/Danix)
<b>F01</b>	18437	4-3	1300	Sat	Russian diplo/intel. )5761 00000+++++++162	FSK 200/50	(AB/Danix/HF D-RUS)
<b>F01</b>	16305	4-3	1310	Sat	Russian diplo/intel. )5761 00000+++++++162	FSK 200/50	(AB/Danix)
<b>F01</b>	14719	4-3	1320	Sat	Russian diplo/intel. )5761 00000+++++++162	FSK 200/50	(AB/Danix/HF D)
<b>F01</b>	12184	4-3	1810	Sat	Russian diplo/intel. )5761 00000+++++++162	FSK 200/50	(Danix)
<b>F01</b>	10292	4-3	1820	Sat	Russian diplo/intel. )5761 00000+++++++162	FSK 200/50	(Danix)
<b>F01</b>	8054	4-3	1830	Sat	Russian diplo/intel. )5761 00000+++++++162	FSK 200/50	(Danix)
<b>F01</b>	16023	6-3	0025	Mon	Link ID 00117, Date 3rd, Serial #10, Groups 186 Header: 11177 00117 87153 03010 01869	FSK 200/500	(Danix-USA)
<b>F01</b>	13555	6-3	0035	Mon	Link ID 00117, Date 3rd, Serial #10, Groups 186 Header: 11177 00117 87153 03010 01869	FSK 200/500	(Danix-USA)
<b>F01</b>	16023	6-3	0125	Mon	Link ID 00117, Date 3rd, Serial #10, Groups 186 Header: 11177 00117 87153 03010 01869	FSK 200/500	(Danix-USA)
<b>F01</b>	13555	6-3	0135	Mon	Link ID 00117, Date 3rd, Serial #10, Groups 186 Header: 11177 00117 87153 03010 01869	FSK 200/500	(Danix-USA)
<b>F01</b>	12184	11-3	1810	Sat	Russian diplo/intel. )5761 00000+++++++162	FSK 200/50	(AB/MPJ/Danix)
<b>F01</b>	10292	11-3	1820	Sat	Russian diplo/intel. )5761 00000+++++++162	FSK 200/50	(AB/MPJ/Danix)
<b>F01</b>	8054	11-3	1830	Sat	Russian diplo/intel. )5761 00000+++++++162	FSK 200/50	(AB/MPJ/Danix)
<b>F01</b>	16023	13-3	0025	Mon	Link ID 00117, Date 13th, Serial #11, Groups 181. Header: 11177 00117 25895 13011 01819	FSK 200/500	(Danix-USA)
<b>F01</b>	13555	13-3	0035	Mon	Link ID 00117, Date 13th, Serial #11, Groups 181. Header: 11177 00117 25895 13011 01819	FSK 200/500	(Danix-USA)
<b>F01</b>	16023	13-3	0125	Mon	Link ID 00117, Date 13th, Serial #11, Groups 181. Header: 11177 00117 25895 13011 01819	FSK 200/500	(Danix-USA)
<b>F01</b>	13555	13-3	0135	Mon	Link ID 00117, Date 13th, Serial #11, Groups 181. Header: 11177 00117 25895 13011 01819	FSK 200/500	(Danix-USA)
<b>F01</b>	17416	14-3	2006	Tue	Russian diplo/intel via Cuba. 11166 00139 00000 14001 00059	FSK 200/500	(MCO)
<b>F01</b>	14502	14-3	2011	Tue	Russian diplo/intel via Cuba. 11166 00139 00000 14001 00059	FSK 200/500	(MCO)
<b>F01</b>	13529	15-3	1440	Wed	Russian diplo/intel. Serial #4, Groups 211: 53963 19537 41756 ... 31613 59452 04211 00000	FSK 200/500	(Danix)
<b>F01</b>	13377	15-3	1442	Wed	Russian diplo/intel i.p. 93707 97182 18767 ... 41813 04083 57629 00000	FSK 200/500	(AB)
<b>F01</b>	13562	15-3	2309	Wed	Russian diplo/intel via Cuba. 11166 00127 76153 15002 00049	FSK 200/500	(MCO)
<b>F01</b>	20700	17-3	2230	Fri	Russian diplo/intel. Link ID 00116, Date 17th, Serial #11, Groups 137. Header: 11177 00116 68419 17011 01379	FSK 200/500	(Danix-USA)
<b>F01</b>	18726	17-3	2240	Fri	Russian diplo/intel. Link ID 00116, Date 17th, Serial #11, Groups 137. Header: 11177 00116 68419 17011 01379	FSK 200/500	(Danix-USA)
<b>F01</b>	12184	18-3	1810	Sat	Russian diplo/intel. )5761 00000+++++++162	FSK 200/50	(AB/Danix/MP J/HFD)
<b>F01</b>	10292	18-3	1820	Sat	Russian diplo/intel. )5761 00000+++++++162	FSK 200/50	(AB/Danix/MP J/HFD)
<b>F01</b>	8054	18-3	1830	Sat	Russian diplo/intel. )5761 00000+++++++162	FSK 200/50	(AB/Danix/MP J/HFD)
<b>F01</b>	12184	25-3	1810	Sat	Russian diplo/intel. )5761 00000+++++++162	FSK 200/50	(AB/Danix/MP J)
<b>F01</b>	10292	25-3	1820	Sat	Russian diplo/intel. )5761 00000+++++++162	FSK 200/50	(AB/Danix/MP J)
<b>F01</b>	8054	25-3	1830	Sat	Russian diplo/intel. )5761 00000+++++++162	FSK 200/50	(AB/Danix/MP J)
<b>F06</b>	18189	1-3	0600	Wed	Russian diplo/intel. Msg on link 32817	FSK 200/1000	(AB-HK/Danix)
<b>F06</b>	16046	1-3	0610	Wed	Russian diplo/intel. Msg on link 32817	FSK 200/1000	(AB-J/Danix)
<b>F06</b>	14459	1-3	0620	Wed	Russian diplo/intel. Msg on link 32817	FSK 200/1000	(AB-J/Danix)
<b>F06</b>	18431	1-3	0800	Wed	Russian diplo/intel. Null msg on link 45075	FSK 200/1000	(AB/Danix)
<b>F06</b>	16278	1-3	0810	Wed	Russian diplo/intel. Null msg on link 45075	FSK 200/1000	(AB/Danix)
<b>F06</b>	14423	1-3	0820	Wed	Russian diplo/intel. Null msg on link 45075	FSK 200/1000	(AB/Danix)

F06	20961	1-3	1000	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB-RUS/Danix)
F06	18553	1-3	1010	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB/Danix)
F06	16264	1-3	1020	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB/Danix)
F06	18563	1-3	1230	Wed	Russian diplo/intel. Null msg on link 53277	FSK 200/1000	(AB-RUS/Danix/RL/MPJ)
F06	16314	1-3	1240	Wed	Russian diplo/intel. Null msg on link 53277	FSK 200/1000	(AB-RUS/Danix/MPJ)
F06	15723	1-3	1250	Wed	Russian diplo/intel. Null msg on link 53277	FSK 200/1000	(AB-RUS/Danix/MPJ)
F06	18189	2-3	0600	Thu	Russian diplo/intel. Msg on link 32817	FSK 200/1000	(AB-J/Danix)
F06	16046	2-3	0610	Thu	Russian diplo/intel. Msg on link 32817	FSK 200/1000	(AB-J/Danix)
F06	14459	2-3	0620	Thu	Russian diplo/intel. Msg on link 32817	FSK 200/1000	(AB-J/Danix)
F06	16054	2-3	1330	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB/Danix)
F06	13471	2-3	1340	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(Danix)
F06	11062	2-3	1350	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(Danix)
F06	10349	4-3	0920	Sat	Russian diplo/intel. Link ID 45114, Date 3rd, Serial #51, Groups 140	FSK 200/1000	(Danix)
F06	16343	4-3	1100	Sat	Russian diplo/intel. Link ID 36882, Date 3rd, Serial #86, Groups 446	FSK 200/1000	(Danix)
F06	14367	4-3	1110	Sat	Russian diplo/intel. Link ID 36882, Date 3rd, Serial #86, Groups 446	FSK 200/1000	(Danix)
F06	12172	4-3	1120	Sat	Russian diplo/intel. Link ID 36882, Date 3rd, Serial #86, Groups 446	FSK 200/1000	(Danix)
F06	22913	4-3	1500	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(AB-RUS/Danix)
F06	20374	4-3	1510	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(AB-RUS/Danix)
F06	18406	4-3	1520	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(AB-RUS/Danix)
F06	14378	5-3	0900	Sun	Russian diplo/intel. Link ID 45114, Date 3rd, Serial #51, Groups 140	FSK 200/1000	(AB/Danix)
F06	12217	5-3	0910	Sun	Russian diplo/intel. Link ID 45114, Date 3rd, Serial #51, Groups 140	FSK 200/1000	(AB/Danix)
F06	10349	5-3	0920	Sun	Russian diplo/intel. Link ID 45114, Date 3rd, Serial #51, Groups 140	FSK 200/1000	(AB/Danix)
F06	16343	5-3	1100	Sun	Russian diplo/intel. Link ID 36882, Date 3rd, Serial #86, Groups 446	FSK 200/1000	(AB/Danix)
F06	14367	5-3	1110	Sun	Russian diplo/intel. Link ID 36882, Date 3rd, Serial #86, Groups 446	FSK 200/1000	(AB/Danix)
F06	12172	5-3	1120	Sun	Russian diplo/intel. Link ID 36882, Date 3rd, Serial #86, Groups 446	FSK 200/1000	(AB/Danix)
F06	16245	5-3	1530	Sun	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(Danix)
F06	14356	5-3	1540	Sun	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(Danix)
F06	12138	5-3	1550	Sun	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(Danix)
F06	10249	6-3	0500	Mon	Russian diplo/intel. Null msg on link 45079	FSK 200/1000	(AB/Danix)
F06	8137	6-3	0510	Mon	Russian diplo/intel. Null msg on link 45079	FSK 200/1000	(AB/Danix)
F06	5948	6-3	0520	Mon	Russian diplo/intel. Null msg on link 45079	FSK 200/1000	(AB/Danix)
F06	16359	7-3	1650	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(Danix)
F06	13986	7-3	1700	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(Danix)
F06	11523	7-3	1710	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(Danix)
F06	18189	8-3	0600	Wed	Russian diplo/intel.	FSK 200/1000	(AB-HK)
F06	16046	8-3	0610	Wed	Russian diplo/intel.	FSK 200/1000	(AB-HK)
F06	14459	8-3	0620	Wed	Russian diplo/intel.	FSK 200/1000	(AB-HK)
F06	20386	8-3	0900	Wed	Russian diplo/intel. Link ID 16404, Date 22nd, Serial #11, Groups 74	FSK 200/1000	(AB/Danix)
F06	18215	8-3	0910	Wed	Russian diplo/intel. Link ID 16404, Date 22nd, Serial #11, Groups 74	FSK 200/1000	(AB/Danix)
F06	16061	8-3	0920	Wed	Russian diplo/intel. Link ID 16404, Date 22nd, Serial #11, Groups 74	FSK 200/1000	(AB/Danix)
F06	20961	8-3	1000	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB/Danix)
F06	18553	8-3	1010	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB/Danix)
F06	20138	8-3	1015	Wed	Russian diplo/intel. Null msg on link 20492	FSK 200/1000	(AB/Danix)
F06	16264	8-3	1020	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB/Danix)
F06	17428	8-3	1025	Wed	Russian diplo/intel. Null msg on link 20492	FSK 200/1000	(AB/Danix)
F06	14983	8-3	1035	Wed	Russian diplo/intel. Null msg on link 20492	FSK 200/1000	(AB/Danix/MPJ)
F06	18189	9-3	0600	Thu	Russian diplo/intel.	FSK 200/1000	(AB-HK)
F06	16046	9-3	0610	Thu	Russian diplo/intel.	FSK 200/1000	(AB-HK)
F06	14459	9-3	0620	Thu	Russian diplo/intel.	FSK 200/1000	(AB-HK)
F06	20386	9-3	0900	Thu	Russian diplo/intel. Link ID 16404, Date 22nd, Serial #11, Groups 74	FSK 200/1000	(AB/Danix)
F06	18215	9-3	0910	Thu	Russian diplo/intel. Link ID 16404, Date 22nd, Serial #11, Groups 74	FSK 200/1000	(AB/Danix)

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F06	16061	9-3	0920	Thu	Russian diplo/intel. Link ID 16404, Date 22nd, Serial #11, Groups 74	FSK 200/1000	(AB/Danix)
F06	16054	9-3	1330	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB/Danix)
F06	13471	9-3	1340	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB/Danix)
F06	11062	9-3	1350	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB/Danix)
F06	14378	11-3	0900	Sat	Russian diplo/intel. Link ID 45114, Date 10th, Serial #52, Groups 92	FSK 200/1000	(AB/Danix)
F06	12217	11-3	0910	Sat	Russian diplo/intel. Link ID 45114, Date 10th, Serial #52, Groups 92	FSK 200/1000	(AB/Danix)
F06	10349	11-3	0920	Sat	Russian diplo/intel. Link ID 45114, Date 10th, Serial #52, Groups 92	FSK 200/1000	(AB/Danix)
F06	18948	11-3	1000	Sat	Russian diplo/intel. Link ID 45057, Date 10th, Serial #93, Groups 90	FSK 200/1000	(AB/Danix)
F06	16223	11-3	1010	Sat	Russian diplo/intel. Link ID 45057, Date 10th, Serial #93, Groups 90	FSK 200/1000	(AB/Danix)
F06	14639	11-3	1020	Sat	Russian diplo/intel. Link ID 45057, Date 10th, Serial #93, Groups 90	FSK 200/1000	(AB/MPJ)
F06	16343	11-3	1100	Sat	Russian diplo/intel. Link ID 36882, Date 10th, Serial #87, Groups 270	FSK 200/1000	(AB/MPJ/Danix)
F06	14367	11-3	1110	Sat	Russian diplo/intel. Link ID 36882, Date 10th, Serial #87, Groups 270	FSK 200/1000	(AB/Danix)
F06	12172	11-3	1120	Sat	Russian diplo/intel. Link ID 36882, Date 10th, Serial #87, Groups 270	FSK 200/1000	(AB/MPJ/Danix)
F06	22913	11-3	1500	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(AB-RUS/Danix)
F06	20374	11-3	1510	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(AB-RUS/RL/Danix)
F06	18406	11-3	1520	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(AB-RUS/RL/Danix)
F06	14378	12-3	0900	Sun	Russian diplo/intel. Link ID 45114, Date 10th, Serial #52, Groups 92	FSK 200/1000	(AB/Danix)
F06	12217	12-3	0910	Sun	Russian diplo/intel. Link ID 45114, Date 10th, Serial #52, Groups 92	FSK 200/1000	(AB/Danix)
F06	10349	12-3	0920	Sun	Russian diplo/intel. Link ID 45114, Date 10th, Serial #52, Groups 92	FSK 200/1000	(AB/Danix)
F06	18948	12-3	1000	Sun	Russian diplo/intel.	FSK 200/1000	(AB/Danix)
F06	16223	12-3	1010	Sun	Russian diplo/intel.	FSK 200/1000	(AB/Danix)
F06	14639	12-3	1020	Sun	Russian diplo/intel.	FSK 200/1000	(AB/Danix)
F06	16343	12-3	1100	Sun	Russian diplo/intel. Link ID 36882, Date 10th, Serial #87, Groups 270	FSK 200/1000	(AB/MPJ/Danix)
F06	14367	12-3	1110	Sun	Russian diplo/intel. Link ID 36882, Date 10th, Serial #87, Groups 270	FSK 200/1000	(AB/MPJ/Danix)
F06	12172	12-3	1120	Sun	Russian diplo/intel. Link ID 36882, Date 10th, Serial #87, Groups 270	FSK 200/1000	(AB/MPJ/Danix)
F06	16245	12-3	1530	Sun	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix/MPJ)
F06	14356	12-3	1540	Sun	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix)
F06	12138	12-3	1550	Sun	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix)
F06	16359	14-3	1650	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(Danix)
F06	13986	14-3	1700	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(Danix/MPJ)
F06	11523	14-3	1710	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(Danix/MPJ)
F06	18189	15-3	0600	Wed	Russian diplo/intel. Null msg on link 32816	FSK 200/1000	(AB-J)
F06	16046	15-3	0610	Wed	Russian diplo/intel. Null msg on link 32816	FSK 200/1000	(AB-J)
F06	14459	15-3	0620	Wed	Russian diplo/intel. Null msg on link 32816	FSK 200/1000	(AB-J)
F06	18038	15-3	0800	Wed	Russian diplo/intel. Null msg on link 45075	FSK 200/1000	(Danix)
F06	16344	15-3	0810	Wed	Russian diplo/intel. Null msg on link 45075	FSK 200/1000	(Danix)
F06	14563	15-3	0820	Wed	Russian diplo/intel. Null msg on link 45075	FSK 200/1000	(Danix)
F06	20961	15-3	1000	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB/Danix)
F06	18553	15-3	1010	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB/Danix)
F06	16264	15-3	1020	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB/Danix/MPJ)
F06	18563	15-3	1230	Wed	Russian diplo/intel. Null msg on link 53277	FSK 200/1000	(AB/Danix/RL/MPJ)
F06	16314	15-3	1240	Wed	Russian diplo/intel. Null msg on link 53277	FSK 200/1000	(AB/Danix/MPJ)
F06	14972	15-3	1250	Wed	Russian diplo/intel. Null msg on link 53277	FSK 200/1000	(AB/Danix)
F06	16054	16-3	1330	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB/Danix/MPJ)
F06	13471	16-3	1340	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB/Danix/MPJ)
F06	11062	16-3	1350	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB/Danix/MPJ)
F06	16343	18-3	1100	Sat	Russian diplo/intel. Link ID 36882, Date 17th, Serial #88, Groups	FSK 200/1000	(AB/Danix)



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F06	14367	18-3	1110	Sat	Russian diplo/intel. Link ID 36882, Date 17th, Serial #88, Groups 296	FSK 200/1000	(AB/Danix)
F06	12172	18-3	1120	Sat	Russian diplo/intel. Link ID 36882, Date 17th, Serial #88, Groups 296	FSK 200/1000	(AB/Danix)
F06	22913	18-3	1500	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(AB-RUS/Danix-RUS/MPJ)
F06	20374	18-3	1510	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(AB-RUS/Danix-RUS/MPJ)
F06	18406	18-3	1520	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(AB-RUS/RL/Danix/MPJ)
F06	7954	18-3	1800	Sat	Russian diplo/intel. Link ID 00000, Date 18th, Serial #3, Groups 152	FSK 200/1000	(Danix)
F06	6792	18-3	1810	Sat	Russian diplo/intel. Link ID 00000, Date 18th, Serial #3, Groups 152	FSK 200/1000	(Danix)
F06	5452	18-3	1820	Sat	Russian diplo/intel. Link ID 00000, Date 18th, Serial #3, Groups 152	FSK 200/1000	(Danix)
F06	16343	19-3	1100	Sun	Russian diplo/intel. Link ID 36882, Date 10th, Serial #87, Groups 270	FSK 200/1000	(AB/Danix)
F06	14367	19-3	1110	Sun	Russian diplo/intel. Link ID 36882, Date 10th, Serial #87, Groups 270	FSK 200/1000	(AB/Danix)
F06	12172	19-3	1120	Sun	Russian diplo/intel. Link ID 36882, Date 10th, Serial #87, Groups 270	FSK 200/1000	(AB/Danix)
F06	16245	19-3	1530	Sun	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix)
F06	14356	19-3	1540	Sun	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix)
F06	12138	19-3	1550	Sun	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix)
F06	10249	20-3	0500	Mon	Russian diplo/intel. Null msg on link 45079	FSK 200/1000	(AB/Danix)
F06	8137	20-3	0510	Mon	Russian diplo/intel. Null msg on link 45079	FSK 200/1000	(AB/Danix)
F06	5948	20-3	0520	Mon	Russian diplo/intel. Null msg on link 45079	FSK 200/1000	(AB/Danix)
F06	17428	21-3	1500	Tue	Russian diplo/intel. Null msg on link 16404	FSK 200/1000	(Danix)
F06	15646	21-3	1510	Tue	Russian diplo/intel. Null msg on link 16404	FSK 200/1000	(Danix)
F06	12153	21-3	1520	Tue	Russian diplo/intel. Null msg on link 16404	FSK 200/1000	(Danix)
F06	16359	21-3	1650	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix/MPJ)
F06	13986	21-3	1700	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix/MPJ)
F06	11523	21-3	1710	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix/MPJ)
F06	18189	22-3	0600	Wed	Russian diplo/intel. Message on link 32816	FSK 200/1000	(AB-HK)
F06	16046	22-3	0610	Wed	Russian diplo/intel. Message on link 32816	FSK 200/1000	(AB-J)
F06	14459	22-3	0620	Wed	Russian diplo/intel. Message on link 32816	FSK 200/1000	(AB-J)
F06	18038	22-3	0800	Wed	Russian diplo/intel. Null msg on link 45075	FSK 200/1000	(AB-RUS/Danix)
F06	16344	22-3	0810	Wed	Russian diplo/intel. Null msg on link 45075	FSK 200/1000	(AB-I/Danix)
F06	14563	22-3	0820	Wed	Russian diplo/intel. Null msg on link 45075	FSK 200/1000	(AB-I/Danix)
F06	20386	22-3	0900	Wed	Russian diplo/intel. Message on link 16404	FSK 200/1000	(AB-RUS)
F06	18215	22-3	0910	Wed	Russian diplo/intel. Message on link 16404	FSK 200/1000	(AB-RUS)
F06	16061	22-3	0920	Wed	Russian diplo/intel. Message on link 16404	FSK 200/1000	(AB-RUS)
F06	20961	22-3	1000	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB-RUS)
F06	18553	22-3	1010	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB-RUS)
F06	20138	22-3	1015	Wed	Russian diplo/intel. Null message. Null msg on link 20492	FSK 200/1000	(AB-RUS/Danix)
F06	16264	22-3	1020	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB-RUS)
F06	17428	22-3	1025	Wed	Russian diplo/intel. Null message. Null msg on link 20492	FSK 200/1000	(AB-RUS/Danix)
F06	14983	22-3	1035	Wed	Russian diplo/intel. Null message. Null msg on link 20492	FSK 200/1000	(AB/Danix)
F06	18189	23-3	0600	Thu	Russian diplo/intel. Message on link 32816	FSK 200/1000	(AB-J)
F06	16046	23-3	0610	Thu	Russian diplo/intel. Message on link 32816	FSK 200/1000	(AB-J)
F06	14459	23-3	0620	Thu	Russian diplo/intel. Message on link 32816	FSK 200/1000	(AB-J)
F06	20386	23-3	0900	Thu	Russian diplo/intel. Message on link 16404	FSK 200/1000	(AB-RUS)
F06	18215	23-3	0910	Thu	Russian diplo/intel. Message on link 16404	FSK 200/1000	(AB-RUS)
F06	16061	23-3	0920	Thu	Russian diplo/intel. Message on link 16404	FSK 200/1000	(AB-RUS)
F06	16054	23-3	1330	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(Danix)
F06	13471	23-3	1340	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(Danix)
F06	11062	23-3	1350	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(Danix)
F06	5922	23-3	1820	Thu	Russian diplo/intel. Message on link 0000	FSK 200/1000	(AB)
F06	14378	25-3	0900	Sat	Russian diplo/intel. Link ID 45114, Date 24th, Serial #53, Groups 94	FSK 200/1000	(AB/Danix)
F06	12217	25-3	0910	Sat	Russian diplo/intel. Link ID 45114, Date 24th, Serial #53, Groups 94	FSK 200/1000	(AB/Danix)
F06	10349	25-3	0920	Sat	Russian diplo/intel. Link ID 45114, Date 24th, Serial #53, Groups 94	FSK 200/1000	(AB/Danix)
F06	18948	25-3	1000	Sat	Russian diplo/intel. Link ID 45057, Date 10th, Serial #93, Groups	FSK 200/1000	(AB-

					90		RUS/Danix)
F06	16223	25-3	1010	Sat	Russian diplo/intel. Link ID 45057, Date 10th, Serial #93, Groups 90	FSK 200/1000	(AB-RUS/Danix/MPJ)
F06	14639	25-3	1020	Sat	Russian diplo/intel. Link ID 45057, Date 10th, Serial #93, Groups 90	FSK 200/1000	(AB/Danix/MPJ)
F06	16343	25-3	1100	Sat	Russian diplo/intel. Link ID 36882, Date 24th, Serial #89, Groups 232	FSK 200/1000	(AB-RUS/Danix/MPJ)
F06	14367	25-3	1110	Sat	Russian diplo/intel. Link ID 36882, Date 24th, Serial #89, Groups 232	FSK 200/1000	(AB/Danix/MPJ)
F06	12172	25-3	1120	Sat	Russian diplo/intel. Link ID 36882, Date 24th, Serial #89, Groups 232	FSK 200/1000	(AB/Danix/MPJ)
F06	22913	25-3	1500	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(AB-RUS/Danix)
F06	20374	25-3	1510	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(AB-RUS/Danix)
F06	18406	25-3	1520	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(AB-RUS/Danix)
F06	14378	26-3	0900	Sun	Russian diplo/intel. Link ID 45114, Date 24th, Serial #53, Groups 94	FSK 200/1000	(AB)
F06	12217	26-3	0910	Sun	Russian diplo/intel. Link ID 45114, Date 24th, Serial #53, Groups 94	FSK 200/1000	(AB)
F06	10349	26-3	0920	Sun	Russian diplo/intel. Link ID 45114, Date 24th, Serial #53, Groups 94	FSK 200/1000	(AB)
F06	18948	26-3	1000	Sun	Russian diplo/intel. Link ID 45057, Date 10th, Serial #93, Groups 90	FSK 200/1000	(AB-RUS)
F06	16223	26-3	1010	Sun	Russian diplo/intel. Link ID 45057, Date 10th, Serial #93, Groups 90	FSK 200/1000	(AB-RUS/MPJ)
F06	14639	26-3	1020	Sun	Russian diplo/intel. Link ID 45057, Date 10th, Serial #93, Groups 90	FSK 200/1000	(AB/MPJ)
F06	16343	26-3	1100	Sun	Russian diplo/intel. Link ID 36882, Date 24th, Serial #89, Groups 232	FSK 200/1000	(AB-RUS/MPJ)
F06	14367	26-3	1110	Sun	Russian diplo/intel. Link ID 36882, Date 24th, Serial #89, Groups 232	FSK 200/1000	(AB/MPJ)
F06	12172	26-3	1120	Sun	Russian diplo/intel. Link ID 36882, Date 24th, Serial #89, Groups 232	FSK 200/1000	(AB/MPJ)
F06	16245	26-3	1530	Sun	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/MPJ)
F06	14356	26-3	1540	Sun	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/MPJ)
F06	12138	26-3	1550	Sun	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/MPJ)
F06	17428	28-3	1500	Tue	Russian diplo/intel. Null msg on link 16405	FSK 200/1000	(AB/Danix)
F06	15646	28-3	1510	Tue	Russian diplo/intel. Null msg on link 16405	FSK 200/1000	(AB/Danix)
F06	12153	28-3	1520	Tue	Russian diplo/intel. Null msg on link 16405	FSK 200/1000	(AB/MPJ/Danix)
F06	16359	28-3	1650	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix)
F06	13986	28-3	1700	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/MPJ/Danix)
F06	11523	28-3	1710	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/MPJ/Danix)
F06	18038	29-3	0800	Wed	Russian diplo/intel. Null msg on link 45075	FSK 200/1000	(AB-I/Danix)
F06	16344	29-3	0810	Wed	Russian diplo/intel. Null msg on link 45075	FSK 200/1000	(AB-I/Danix)
F06	14563	29-3	0820	Wed	Russian diplo/intel. Null msg on link 45075	FSK 200/1000	(AB-I/Danix)
F06	20961	29-3	1000	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB-RUS/Danix)
F06	18553	29-3	1010	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB-RUS/Danix)
F06	16264	29-3	1020	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB-RUS/Danix)
F06	18189	30-3	0600	Thu	Russian diplo/intel. Message on link 32817	FSK 200/1000	(AB-J)
F06	16046	30-3	0610	Thu	Russian diplo/intel. Message on link 32817	FSK 200/1000	(AB-J)
F06	14459	30-3	0620	Thu	Russian diplo/intel. Message on link 32817	FSK 200/1000	(AB-J)
F06	16054	30-3	1330	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB/Danix)
F06	13471	30-3	1340	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB/Danix)
F06	11062	30-3	1350	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB/Danix/MPJ)
F11	16005	1-3	0530	Wed	0453 00000	FSK 100/620	(AB-POL)
F11	16005	1-3	0535	Wed	0453 00000	FSK 100/620	(AB-POL)
F11	9339	1-3	0845	Wed	0353 00000	FSK 100/620	(AB)
F11	9339	1-3	0850	Wed	0353 00000	FSK 100/620	(AB)
F11	9079	1-3	1150	Wed	0325 00000	FSK 100/620	(AB)
F11	9079	1-3	1155	Wed	0325 00000	FSK 100/620	(AB)
F11	10728	2-3	0630	Thu	0574 00000	FSK 100/620	(AB)
F11	10728	2-3	0635	Thu	0574 00000	FSK 100/620	(AB)
F11	14753	2-3	0730	Thu	0433 00000	FSK 100/620	(AB)
F11	14753	2-3	0735	Thu	0433 00000	FSK 100/620	(AB)
F11	6906	2-3	0800	Thu	0434 00000	FSK 100/620	(AB)

F11	6906	2-3	0805	Thu	0434 00000	FSK 100/620	(AB)
F11	16005	3-3	0530	Fri	0453 00000	FSK 100/620	(AB-POL)
F11	16005	3-3	0535	Fri	0453 00000	FSK 100/620	(AB-POL)
F11	7371	3-3	0900	Fri	0554 00000	FSK 100/620	(AB)
F11	7371	3-3	0905	Fri	0554 00000	FSK 100/620	(AB)
F11	7371	6-3	0515	Mon	0446 00000	FSK 100/620	(AB)
F11	7371	6-3	0520	Mon	0446 00000	FSK 100/620	(AB)
F11	6906	6-3	0800	Mon	0434 88888 88888 93143 36577 78798 ... 35934 94268 64478 88888 88888 00040 00040	FSK 100/620	(AB)
F11	6906	6-3	0805	Mon	0434 88888 88888 93143 36577 78798 ... 35934 94268 64478 88888 88888 00040 00040	FSK 100/620	(AB)
F11	9339	6-3	0845	Mon	0353 00000	FSK 100/620	(AB)
F11	9339	6-3	0850	Mon	0353 00000	FSK 100/620	(AB)
F11	14753	7-3	0730	Tue	0433 00000	FSK 100/620	(AB)
F11	14753	7-3	0735	Tue	0433 00000	FSK 100/620	(AB)
F11	7371	7-3	0900	Tue	0554 00000	FSK 100/620	(AB)
F11	7371	7-3	0905	Tue	0554 00000	FSK 100/620	(AB)
F11	9079	7-3	1150	Tue	0325 00000	FSK 100/620	(AB)
F11	9079	7-3	1155	Tue	0325 00000	FSK 100/620	(AB)
F11	16005	8-3	0530	Wed	0453 00000	FSK 100/620	(AB-POL)
F11	16005	8-3	0535	Wed	0453 00000	FSK 100/620	(AB-POL)
F11	9339	8-3	0845	Wed	0353 00000	FSK 100/620	(AB)
F11	9339	8-3	0850	Wed	0353 00000	FSK 100/620	(AB)
F11	9079	8-3	1150	Wed	0325 00000	FSK 100/620	(AB)
F11	9079	8-3	1155	Wed	0325 00000	FSK 100/620	(AB)
F11	10728	9-3	0630	Thu	0574 00000	FSK 100/620	(AB)
F11	10728	9-3	0635	Thu	0574 00000	FSK 100/620	(AB)
F11	14753	9-3	0730	Thu	0433 00000	FSK 100/620	(AB)
F11	14753	9-3	0735	Thu	0433 00000	FSK 100/620	(AB)
F11	6906	9-3	0800	Thu	0434 88888 88888 93143 36577 78798 ... 35934 94268 64478 88888 88888 00040 00040	FSK 100/620	(AB)
F11	6906	9-3	0805	Thu	0434 88888 88888 93143 36577 78798 ... 35934 94268 64478 88888 88888 00040 00040	FSK 100/620	(AB)
F11	16005	10-3	0530	Fri	0453 00000	FSK 100/620	(AB-POL)
F11	16005	10-3	0535	Fri	0453 00000	FSK 100/620	(AB-POL)
F11	7371	10-3	0900	Fri	0554 00000	FSK 100/620	(AB)
F11	7371	10-3	0905	Fri	0554 00000	FSK 100/620	(AB)
F11	7371	13-3	0515	Mon	0446 00000	FSK 100/620	(AB)
F11	7371	13-3	0520	Mon	0446 00000	FSK 100/620	(AB)
F11	6906	13-3	0800	Mon	0434 00000	FSK 100/620	(AB)
F11	6906	13-3	0805	Mon	0434 00000	FSK 100/620	(AB)
F11	9339	13-3	0845	Mon	0353 00000	FSK 100/620	(AB)
F11	9339	13-3	0850	Mon	0353 00000	FSK 100/620	(AB)
F11	10728	14-3	0630	Tue	0574 00000	FSK 100/620	(AB)
F11	10728	14-3	0635	Tue	0574 00000	FSK 100/620	(AB)
F11	14753	14-3	0730	Tue	0433 88888 88888 43281 93312 10178 ... 90890 50584 93329 88888 88888 00039 00039	FSK 100/620	(AB)
F11	14753	14-3	0735	Tue	0433 88888 88888 43281 93312 10178 ... 90890 50584 93329 88888 88888 00039 00039	FSK 100/620	(AB)
F11	7371	14-3	0900	Tue	0554 88888 88888 30904 32658 59964 ... 47242 74932 47031 88888 88888 00043 00043	FSK 100/620	(AB)
F11	7371	14-3	0905	Tue	0554 88888 88888 30904 32658 59964 ... 47242 74932 47031 88888 88888 00043 00043	FSK 100/620	(AB)
F11	9079	14-3	1150	Tue	0325 00000	FSK 100/620	(AB)
F11	9079	14-3	1155	Tue	0325 00000	FSK 100/620	(AB)
F11	16005	15-3	0530	Wed	0453 88888 88888 45462 56964 77708 ... 65079 62648 61083 88888 88888 00035 00035	FSK 100/620	(AB-POL)
F11	16005	15-3	0535	Wed	0453 88888 88888 45462 56964 77708 ... 65079 62648 61083 88888 88888 00035 00035	FSK 100/620	(AB-POL)
F11	9339	15-3	0845	Wed	0353 00000	FSK 100/620	(AB)
F11	9339	15-3	0850	Wed	0353 00000	FSK 100/620	(AB)
F11	9079	15-3	1150	Wed	0325 00000	FSK 100/620	(AB)
F11	9079	15-3	1155	Wed	0325 00000	FSK 100/620	(AB)
F11	7371	16-3	0515	Thu	0446 00000	FSK 100/620	(AB)
F11	7371	16-3	0515	Thu	0446 00000	FSK 100/620	(AB)
F11	10728	16-3	0630	Thu	0574 00000	FSK 100/620	(AB)
F11	10728	16-3	0635	Thu	0574 00000	FSK 100/620	(AB)
F11	14753	16-3	0730	Thu	0433 88888 88888 43281 93312 10178 ... 90890 50584 93329 88888 88888 00039 00039	FSK 100/620	(AB)
F11	14753	16-3	0735	Thu	0433 88888 88888 43281 93312 10178 ... 90890 50584 93329 88888 88888 00039 00039	FSK 100/620	(AB)
F11	6906	16-3	0800	Thu	0434 00000	FSK 100/620	(AB)
F11	6906	16-3	0805	Thu	0434 00000	FSK 100/620	(AB)
F11	16005	17-3	0530	Fri	0453 88888 88888 45462 56964 77708 ... 65079 62648 61083 88888 88888 00035 00035	FSK 100/620	(AB-POL)
F11	16005	17-3	0535	Fri	0453 88888 88888 45462 56964 77708 ... 65079 62648 61083	FSK 100/620	(AB-POL)



					88888 88888 00035 00035		
F11	7371	17-3	0900	Fri	0554 88888 88888 30904 32658 59964 ... 47242 74932 47031 88888 88888 00043 00043	FSK 100/620	(AB)
F11	7371	17-3	0905	Fri	0554 88888 88888 30904 32658 59964 ... 47242 74932 47031 88888 88888 00043 00043	FSK 100/620	(AB)
F11	7371	20-3	0515	Mon	0446 88888 88888 16411 43516 11394 ... 40332 94478 94791 88888 88888 00039 0009	FSK 100/620	(AB)
F11	7371	20-3	0520	Mon	0446 88888 88888 16411 43516 11394 ... 40332 94478 94791 88888 88888 00039 0009	FSK 100/620	(AB)
F11	6906	20-3	0800	Mon	0434 00000	FSK 100/620	(AB)
F11	6906	20-3	0805	Mon	0434 00000	FSK 100/620	(AB)
F11	9339	20-3	0845	Mon	0353 88888 88888 37557 57984 62195 ... 08028 67506 26767 88888 88888 00042 00042	FSK 100/620	(AB)
F11	9339	20-3	0850	Mon	0353 88888 88888 37557 57984 62195 ... 08028 67506 26767 88888 88888 00042 00042	FSK 100/620	(AB)
F11	10728	21-3	0630	Tue	0574 88888 88888 43934 37883 35660 ... 17199 39255 94577 88888 88888 00039 00039	FSK 100/620	(AB)
F11	10728	21-3	0635	Tue	0574 88888 88888 43934 37883 35660 ... 17199 39255 94577 88888 88888 00039 00039	FSK 100/620	(AB)
F11	9052	21-3	0655	Tue	0684 00000	FSK 100/620	(AB)
F11	9052	21-3	0700	Tue	0684 00000	FSK 100/620	(AB)
F11	14753	21-3	0730	Tue	0433 00000	FSK 100/620	(AB)
F11	14753	21-3	0735	Tue	0433 00000	FSK 100/620	(AB)
F11	7371	21-3	0900	Tue	0554 00000	FSK 100/620	(AB)
F11	7371	21-3	0905	Tue	0554 00000	FSK 100/620	(AB)
F11	9079	21-3	1150	Tue	0325 00000	FSK 100/620	(AB)
F11	9079	21-3	1155	Tue	0325 00000	FSK 100/620	(AB)
F11	16005	22-3	0530	Wed	0453 00000	FSK 100/620	(AB-POL)
F11	16005	22-3	0535	Wed	0453 00000	FSK 100/620	(AB-POL)
F11	9339	22-3	0845	Wed	0353 88888 88888 37557 57984 62195 ... 08028 67506 26767 88888 88888 00042 00042	FSK 100/620	(AB)
F11	9339	22-3	0850	Wed	0353 88888 88888 37557 57984 62195 ... 08028 67506 26767 88888 88888 00042 00042	FSK 100/620	(AB)
F11	9079	22-3	1150	Wed	0325 00000	FSK 100/620	(AB)
F11	9079	22-3	1155	Wed	0325 00000	FSK 100/620	(AB)
F11	7371	23-3	0515	Thu	0446 88888 88888 16411 43516 11394 ... 40332 94478 94791 88888 88888 00039 0009	FSK 100/620	(AB)
F11	7371	23-3	0520	Thu	0446 88888 88888 16411 43516 11394 ... 40332 94478 94791 88888 88888 00039 0009	FSK 100/620	(AB)
F11	10728	23-3	0630	Thu	0574 88888 88888 43934 37883 35660 ... 17199 39255 94577 88888 88888 00039 00039	FSK 100/620	(AB)
F11	10728	23-3	0635	Thu	0574 88888 88888 43934 37883 35660 ... 17199 39255 94577 88888 88888 00039 00039	FSK 100/620	(AB)
F11	14753	23-3	0730	Thu	0433 00000	FSK 100/620	(AB)
F11	14753	23-3	0735	Thu	0433 00000	FSK 100/620	(AB)
F11	6906	23-3	0800	Thu	0434 00000	FSK 100/620	(AB)
F11	6906	23-3	0805	Thu	0434 00000	FSK 100/620	(AB)
F11	9052	24-3	0655	Fri	0684 00000	FSK 100/620	(AB)
F11	9052	24-3	0700	Fri	0684 00000	FSK 100/620	(AB)
F11	7371	24-3	0900	Fri	0554 00000	FSK 100/620	(AB)
F11	7371	24-3	0905	Fri	0554 00000	FSK 100/620	(AB)
F11	7371	27-3	0515	Mon	0446 00000	FSK 100/620	(AB)
F11	7371	27-3	0520	Mon	0446 00000	FSK 100/620	(AB)
F11	6906	27-3	0800	Mon	0434 00000	FSK 100/620	(AB)
F11	6906	27-3	0805	Mon	0434 00000	FSK 100/620	(AB)
F11	9339	27-3	0845	Mon	0353 00000	FSK 100/620	(AB)
F11	9339	27-3	0850	Mon	0353 00000	FSK 100/620	(AB)
F11	10728	28-3	0630	Tue	0574 00000	FSK 100/620	(AB)
F11	10728	28-3	0635	Tue	0574 00000	FSK 100/620	(AB)
F11	9052	28-3	0655	Tue	0684 88888 88888 59851 22429 70189 ... 11942 83939 18518 88888 88888 00042 00042	FSK 100/620	(AB)
F11	9052	28-3	0700	Tue	0684 88888 88888 59851 22429 70189 ... 11942 83939 18518 88888 88888 00042 00042	FSK 100/620	(AB)
F11	14753	28-3	0730	Tue	0433 00000	FSK 100/620	(AB)
F11	14753	28-3	0735	Tue	0433 00000	FSK 100/620	(AB)
F11	7371	28-3	0900	Tue	0554 00000	FSK 100/620	(AB)
F11	7371	28-3	0905	Tue	0554 00000	FSK 100/620	(AB)
F11	9079	28-3	1150	Tue	0325 88888 88888 92384 85974 89227 ... 17973 37810 32808 88888 88888 00044 00044	FSK 100/620	(AB)
F11	9079	28-3	1155	Tue	0325 88888 88888 92384 85974 89227 ... 17973 37810 32808 88888 88888 00044 00044	FSK 100/620	(AB)
F11	16005	29-3	0530	Wed	0453 00000	FSK 100/620	(AB-POL)
F11	16005	29-3	0535	Wed	0453 00000	FSK 100/620	(AB-POL)
F11	9339	29-3	0845	Wed	0353 00000	FSK 100/620	(AB)
F11	9339	29-3	0850	Wed	0353 00000	FSK 100/620	(AB)
F11	9079	29-3	1150	Wed	0325 00000	FSK 100/620	(AB)

F11	9079	29-3	1155	Wed	0325 00000	FSK 100/620	(AB)
F11	7371	30-3	0515	Thu	0446 00000	FSK 100/620	(AB)
F11	7371	30-3	0520	Thu	0446 00000	FSK 100/620	(AB)
F11	10728	30-3	0630	Thu	0574 00000	FSK 100/620	(AB)
F11	10728	30-3	0635	Thu	0574 00000	FSK 100/620	(AB)
F11	14753	30-3	0730	Thu	0433 00000	FSK 100/620	(AB)
F11	14753	30-3	0735	Thu	0433 00000	FSK 100/620	(AB)
F11	6906	30-3	0800	Thu	0434 00000	FSK 100/620	(AB)
F11	6906	30-3	0805	Thu	0434 00000	FSK 100/620	(AB)
F11	16005	31-3	0530	Fri	0453 00000	FSK 100/620	(AB-POL)
F11	16005	31-3	0535	Fri	0453 00000	FSK 100/620	(AB-POL)
F11	9052	31-3	0655	Fri	0684 88888 88888 59851 22429 70189 ... 11942 83939 18518 88888 88888 00042 00042	FSK 100/620	(AB)
F11	9052	31-3	0700	Fri	0684 88888 88888 59851 22429 70189 ... 11942 83939 18518 88888 88888 00042 00042	FSK 100/620	(AB)
F11	7371	31-3	0900	Fri	0554 00000	FSK 100/620	(AB)
F11	7371	31-3	0905	Fri	0554 00000	FSK 100/620	(AB)
G06	6810	6-3	0759	Mon	329 329 329 00000 Windows XP shutdown sound	USB	(AB-POL/ES/HFD)
G06	4784	6-3	1700	Mon	691 241 241 125 125 06046 35697 17891 ... 42927 85605 75302 241 241 125 125 00000	USB	(HFD)
G06	5460	6-3	1800	Mon	691 241 241 125 125 06046 35697 17891 ... 42927 85605 75302 241 241 125 125 00000	USB	(AB/HFD)
G06	5755	8-3	1200	Wed	691 241 125 06046 35697 17891 ... 42927 85605 75302 241 125 00000	USB	(AB-RUS/ES/HFD)
G06	4967	8-3	1258	Wed	691 241 125 06046 35697 17891 ... 42927 85605 75302 241 125 00000	USB	(AB-RUS/ES)
G06	4967	8-3	1300	Wed	691 241 125 06046 35697 17891 ... 42927 85605 75302 241 125 00000	USB	(AB-RUS/HFD)
G06	4598	9-3	1259	Thu	329 329 329 00000 Windows XP shutdown sound	USB	(AB-RUS)
G06	5442	10-3	1929	Fri	947 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000	USB	(AB/MPJ/HFD)
G06	4784	13-3	1658	Mon	691 241 241 125 125 06046 35697 17891 ... 42927 85605 75302 241 241 125 125 00000	USB	(AB/MPJ)
G06	5460	13-3	1758	Mon	691 241 241 125 125 06046 35697 17891 ... 42927 85605 75302 241 241 125 125 00000	USB	(AB/MPJ/SG)
G06	5755	15-3	1145	Wed	111 00000	USB	(ES-POL)
G06	5755	15-3	1158	Wed	691 241 125 06046 35697 17891 ... 42927 85605 75302 241 125 00000	USB	(AB-RUS/ES)
G06	4967	15-3	1243	Wed	111 00000	USB	(ES-POL)
G06	6810	20-3	0754	Mon	111 111 111 00000	USB	(AB/SG)
G06	6810	20-3	0758	Mon	329 329 329 00000	USB	(AB/SP1/SG)
G06	4598	23-3	1259	Thu	329 329 329 00000	USB	(ES)
G06	5921	23-3	1818	Thu	11	USB	(AB)
G06	5921	23-3	1828	Thu	579 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000	USB	(AB/HFD)
G06	5442	24-3	1930	Fri	947 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000	USB	(AB/MPJ)
HM01	11435	1-3	1602	Wed	53361 52513 33834 78655 73637 88405	AM/RDFT	(RR2)
HM01	10715	1-3	2157	Wed	53361 52513 33834 78655 73637 88405	AM/RDFT	(F5JBR)
HM01	16180	2-3	2109	Thu	53362 52514 33835 78656 75581 88406	AM/RDFT	(RR2)
HM01	17480	2-3	2225	Thu	53362 52514 33835 78656 75581 88406	AM/RDFT	(RL)
HM01	11435	3-3	1606	Fri	53363 52515 33836 78657 75581 88407	AM/RDFT	(RR2)
HM01	11635	3-3	2110	Fri	53261 52515 33836 78657 75581 88407	AM/RDFT	(DSch)
HM01	10715	3-3	2200	Fri	53363 52517 33836 78657 75581 88407	AM/RDFT	(Dan)
HM01	11435	5-3	1604	Sun	53365 52517 33838 54821 75583 88409	AM/RDFT	(RR2)
HM01	11635	5-3	2057	Sun	53365 52517 33838 54821 75583 88409	AM/RDFT	(RL)
HM01	10715	5-3	2200	Sun	53365 52517 33838 54821 75583 88409	AM/RDFT	(Dan)
HM01	11635	6-3	1755	Mon	53366 52518 07011 54822 75584 50051	AM/RDFT	(RR2)
HM01	11635	6-3	1757	Mon	53366 52518 07011 54822 75584 50050	AM/RDFT	(DSch)
HM01	11635	7-3	0757	Tue	53366 52518 07011 54822 75584 50051	AM/RDFT	(AB)
HM01	11462	7-3	0857	Tue	53366 52518 07011 54822 75584 50051	AM/RDFT	(AB)
HM01	11435	7-3	1636	Tue	i.p. 53366 52518 07011 54822 75584 50051 (repeat of 06 March)	AM/RDFT	(RR2)
HM01	11635	7-3	1758	Tue	53366 52518 07011 54822 75584 50051	AM/RDFT	(DSch)
HM01	16180	7-3	2057	Tue	53366 52518 07011 54822 75584 50051	AM/RDFT	(RL)
HM01	17480	7-3	2157	Tue	53366 52518 07011 54822 75584 50051	AM/RDFT	(RL)
HM01	17480	7-3	2200	Tue	53366 52518 07011 54822 75584 50051 (Repeat of 6 March)	AM/RDFT	(Dan)
HM01	11530	8-3	1725	Wed	i.p. 53366 52518 07011 54822 75584 50051 (repeat of 06 March)	AM/RDFT	(RR2)
HM01	11435	9-3	1600	Thu	Radio Habana Cuba until 1613z, then 53366 52518 07011 54822 75584 50051 (repeat of 06 March)	AM/RDFT	(RR2)
HM01	11635	9-3	1754	Thu	53366 52518 07011 54822 75584 50051	AM/RDFT	(DSch)
HM01	16180	9-3	2057	Thu	53366 52518 07011 54822 75584 50051 (repeat of 06 March)	AM/RDFT	(RL)
HM01	17480	9-3	2200	Thu	53366 52518 07011 54822 75584 50051 (Repeat of 6 March)	AM/RDFT	(Dan)
HM01	11435	10-3	1558	Fri	i.p. 53366 52518 07011 54822 75584 50051 (repeat of 06 March)	AM/RDFT	(RR2)
HM01	11635	10-3	1756	Fri	53366 52518 07011 54822 75584 50051	AM/RDFT	(DSch)
HM01	11435	11-3	1602	Sat	Radio Habana Cuba for a few minutes followed by 53366 52518	AM/RDFT	(RR2)

07011 54822 75584 50051 (repeat of 06 March)								
HM01	16180	11-3	2057	Sat	53366 52518 07011 54822 75584 50051 (Repeat of 6 March)	AM/RDFT	(RL)	
HM01	17480	11-3	2157	Sat	53366 52518 07011 54822 75584 50051 (Repeat of 6 March)	AM/RDFT	(RL)	
HM01	11435	12-3	1558	Sun	i.p. 53366 52518 07011 54822 75584 50051 (Repeat of 6 March)	AM/RDFT	(RR2)	
HM01	11435	13-3	1600	Mon	i.p. 53366 52518 07011 54822 75584 50051 (Repeat of 6 March)	AM/RDFT	(RR2)	
HM01	10715	13-3	2226	Mon	53366 52518 07011 54822 75584 50051 (Repeat of 6 March)	AM/RDFT	(DSch)	
HM01	11635	14-3	0756	Tue	53366 52518 07011 54822 75584 50051 (Repeat of 6 March)	AM/RDFT	(AB-I)	
HM01	11435	14-3	1600	Tue	i.p. 53366 52518 07011 54822 75584 50051 (Repeat of 6 March)	AM/RDFT	(RR2)	
HM01	11635	14-3	1836	Tue	53366 52518 07011 54822 75584 50051 (Repeat of 6 March)	AM/RDFT	(DSch)	
HM01	16180	14-3	2124	Tue	i.p. 53366 52518 07011 54822 75584 50051 (Repeat of 6 March)	AM/RDFT	(RL)	
HM01	17480	14-3	2154	Tue	i.p. 53366 52518 07011 54822 75584 50051 (Repeat of 6 March)	AM/RDFT	(RL)	
HM01	11435	15-3	1600	Wed	i.p. 53366 52518 07011 54822 75584 50051 (Repeat of 6 March)	AM/RDFT	(RR2)	
HM01	11634	15-3	2121	Wed	i.p. 53366 52518 07011 54822 75584 50051 (Repeat of 6 March)	AM/RDFT	(ML)	
HM01	11435	16-3	1625	Thu	53366 52518 07011 54822 75584 50051 (Repeat of 6 March)	AM/RDFT	(RR2)	
HM01	11530	16-3	1747	Thu	i.p. 53366 52518 07011 54822 75584 50051 (Repeat of 6 March)	AM/RDFT	(DSch)	
HM01	16180	16-3	2057	Thu	53366 20540 07011 54822 75584 50051 (Repeat of 6 March)	AM/RDFT	(RL)	
HM01	17480	16-3	2200	Thu	53366 20740 07011 54822 75884 50051 (Repeat of 6 March)	AM/RDFT	(Dan)	
HM01	11435	17-3	1600	Fri	53366 20540 07011 54822 75584 50051 (Repeat of 6 March)	AM/RDFT	(ML)	
HM01	11635	17-3	1757	Fri	53367 20541 07011 54823 75585 50051	AM/RDFT	(RR2)	
HM01	11435	18-3	1555	Sat	53368 20542 07012 54824 75586 50052	AM/RDFT	(RR2)	
HM01	17480	18-3	2157	Sat	53368 20542 07012 54824 75586 50052	AM/RDFT	(RL)	
HM01	11435	19-3	1558	Sun	53369 20543 07013 54825 75587 50053	AM/RDFT	(RR2)	
HM01	11435	20-3	1555	Mon	i.p. 58671 20544 07014 54826 28551 50054	AM/RDFT	(RR2)	
HM01	11435	21-3	1556	Tue	58671 20545 07015 54827 28551 50055	AM/RDFT	(RR2)	
HM01	11530	21-3	1726	Tue	58671 20545 07015 54827 28551 50055	AM/RDFT	(DSch)	
HM01	16180	21-3	2057	Tue	58671 20545 07015 54827 28551 50055	AM/RDFT	(RL)	
HM01	17480	21-3	2157	Tue	58671 20545 07015 54827 28551 50055	AM/RDFT	(RL)	
HM01	11530	22-3	1728	Wed	58672 20546 07016 54828 28552 50056	AM/RDFT	(RR2)	
HM01	16180	23-3	2105	Thu	58673 20547 07017 45611 28553 50057 (Repeat of 23 March)	AM/RDFT	(RR2)	
HM01	17480	23-3	2157	Thu	58673 20547 07017 45611 28553 50057	AM/RDFT	(RL)	
HM01	17480	23-3	2200	Thu	58673 20547 07017 45611 28553 50057	AM/RDFT	(Dan)	
HM01	11435	24-3	1600	Fri	58673 20547 07017 45611 28553 50057 (Repeat of 23 March)	AM/RDFT	(RR2)	
HM01	11435	25-3	1600	Sat	58673 20547 07017 45611 28553 50057 (repeats groups from 23-3)	AM/RDFT	(RR2)	
HM01	11435	25-3	1604	Sat	58673 20547 07017 45611 28553 50057 (repeats groups from 23-3)	AM/RDFT	(DSch)	
HM01	11435	26-3	1554	Sun	58673 20547 07017 45611 28553 50057 (repeats groups from 23-3)	AM/RDFT	(DSch)	
HM01	11435	26-3	1600	Sun	58673 20547 07017 45611 28553 50057 (repeats groups from 23-3)	AM/RDFT	(RR2)	
HM01	11530	26-3	1727	Sun	58673 20547 07017 45611 28553 50057 (repeats groups from 23-3)	AM/RDFT	(DSch)	
HM01	11435	27-3	1604	Mon	i.p. 58673 20547 07017 45611 28553 50057 (repeats groups from 23-3)	AM/RDFT	(RR2)	
HM01	11435	28-3	1600	Tue	58674 62551 07018 45611 28554 70471	AM/RDFT	(RR2)	
HM01	17480	28-3	2157	Tue	58674 62551 07018 45611 28554 70471	AM/RDFT	(RL)	
HM01	17480	28-3	2200	Tue	58674 62551 07018 45611 28554 70471	AM/RDFT	(Dan)	
HM01	11530	29-3	1730	Wed	58674 62551 07018 45611 28554 70471 (Repeating 28-3 groups)	AM/RDFT	(RR2)	
HM01	11435	30-3	1600	Thu	58674 62551 07018 45611 28554 70471 (Repeating 28-3 groups)	AM/RDFT	(RR2)	
HM01	16180	30-3	2057	Thu	58674 62551 07018 45611 28554 70471	AM/RDFT	(RL)	
HM01	11435	31-3	1554	Fri	58675 62551 44101 45612 28555 70471 (Repeating 28-03 groups)	AM/RDFT	(RR2)	
HM01	10715	31-3	2200	Fri	Radio Rebelde, then into 58675 62551 44101 45612 28555 70471	AM/RDFT	(Dan)	
HM02	4761	1-3	0520	Wed	901 49 = 68180 53334 27807 ... 47670 35784 20113 = 901 49 901 49 = repeats message = 901 49 000	FSK-19.8bd/129Hz/FSK-CW	(AB/BR)	
HM02	4761	2-3	0520	Thu	839 42 = 80278 32241 23181 ... 71484 54377 43673 = 839 42 839 42 = repeats message = = 839 42 000	FSK-19.8bd/129Hz/FSK-CW	(AB)	
HM02	4761	3-3	0520	Fri	906 46 = 80278 32241 23181 ... 12398 56400 65901 = 906 46 906 46 = repeats message = = 906 46 000	FSK-19.8bd/129Hz/FSK-CW	(AB)	
HM02	4761	3-3	0520	Fri	417 49 = 33968 76862 34584 ... 72398 42464 80031 = 417 49 417 49 = repeats message = 417 49 000	FSK-19.8bd/129Hz/FSK-CW	(AB)	
HM02	11435	4-3	1602	Sat	53364 52516 33837 54821 75582 88408	AM/RDFT	(RR2)	
HM02	4761	5-3	0520	Sun	244 45 = 17725 24804 44712 2328 067011 17352 55033 31620 26252 6:514 32023 70121 4 (sent FSK instead of CW; also wrong message)	FSK 50/129	(AB)	
HM02	4761	6-3	0520	Mon	531 44 = 82247 76594 81625 ... 18702 79835 03370 531 44 531 44 = repeats message = 531 44 000	FSK-19.8bd/129Hz/FSK-CW	(AB)	
HM02	4761	7-3	0520	Tue	928 43 = 60686 12508 11103 ... 80644 58357 17480 = 928 43 928 43 = repeats message = 928 43 000	FSK-19.8bd/129Hz/FSK-CW	(AB)	
HM02	4761	8-3	0520	Wed	873 41 = 08323 45856 66117 ... 53580 51111 53086 = 873 41 873 41 = repeats message = 873 41 000	FSK-19.8bd/129Hz/FSK-	(AB)	

<b>HM02</b>	4761	9-3	0520	Thu	371 46 = 28037 23660 11664 ... 43742 76234 27614 = 371 46 000. No repeat	CW FSK-19.8bd/129Hz/FSK-CW	(AB/BR)
<b>HM02</b>	4761	10-3	0520	Fri	985 59 = 35755 34007 74954 ... 01041 25814 16676 = 985 49 985 49 = repeats message = 985 49 000	FSK-19.8bd/129Hz/FSK-CW	(AB)
<b>HM02</b>	4761	11-3	0520	Sat	937 42 = 82367 23738 10331 ... 03681 71404 17413 2 then off	FSK-19.8bd/129Hz/FSK-CW	(AB)
<b>HM02</b>	4761	12-3	0520	Sun	948 48 = 24045 20602 72852 ... 66326 12885 74281 = 948 48 948 48 = repeats message = 948 48 000	FSK-19.8bd/129Hz/FSK-CW	(AB)
<b>HM02</b>	4761	13-3	0520	Mon	247 49 = 71712 34134 57130 ... 13477 15845 31823 = 247 49 247 49 = repeats message = 247 49 000	FSK-19.8bd/129Hz/FSK-CW	(AB)
<b>HM02</b>	4761	13-3	0531	Mon	Callup sequence	FSK-19.8bd/129Hz	(AB)
<b>HM02</b>	4761	13-3	0533	Mon	Callup sequence	FSK-19.8bd/129Hz	(AB)
<b>HM02</b>	4761	13-3	0535	Mon	Callup sequence, then off	FSK-19.8bd/129Hz	(AB)
<b>HM02</b>	4761	14-3	0521	Tue	274 46 = 12649 08179 48307 ... 06868 75986 788862 = 274 46 274 46 = repeats message = 274 46 000	FSK-19.8bd/129Hz/FSK-CW	(AB)
<b>HM02</b>	4761	15-3	0520	Wed	906 43 = 54848 22008 88411 ... 28105 09180 08236 = 906 43 906 43 = repeats message = 906 43 000	FSK-19.8bd/129Hz/FSK-CW	(AB)
<b>HM02</b>	4761	16-3	0520	Thu	432 42 = 12649 08179 48307 ... 63603 01290 14015 = 432 42 432 42 = repeats message = 432 42 000	FSK-19.8bd/129Hz/FSK-CW	(AB/BR)
<b>HM02</b>	4761	17-3	0520	Fri	807 46 = 76636 62631 15383 ... 25230 08533 80472 = 807 46 807 46 = repeats message = 807 46 000	FSK-19.8bd/129Hz/FSK-CW	(AB)
<b>HM02</b>	4761	18-3	0520	Sat	256 42 = 76636 62631 15383 ... 06813 26516 87560 = 256 42 256 42 = repeats message = 256 42 000	FSK-19.8bd/129Hz/FSK-CW	(AB)
<b>HM02</b>	4761	19-3	0520	Sun	866 45 = 76636 62631 15383 ... 56781 54321 45678 = 866 45 866 45 = repeats message = 866 45 000	FSK-19.8bd/129Hz/FSK-CW	(AB)
<b>HM02</b>	4761	21-3	0521	Tue	801 42 = 68720 20250 34374 ... 10287 61513 83430 = 801 42 801 42 = repeats message = 801 42 000	FSK-19.8bd/129Hz/FSK-CW	(AB)
<b>HM02</b>	4761	22-3	0520	Wed	951 46 = 27687 30547 88377 ... 55610 83272 66007 = 951 46 951 46 = repeats message = = 951 46 000	FSK-19.8bd/129Hz/FSK-CW	(AB)
<b>HM02</b>	4761	23-3	0520	Thu	982 43 = 01306 02771 10624 ... 28206 25585 24188 = 982 43 982 43 = repeats message = 982 43 000	FSK-19.8bd/129Hz/FSK-CW	(AB)
<b>HM02</b>	4761	24-3	0520	Fri	287 43 = 67957 54095 98306 ... 34000 35014 40930 = 287 43 287 43 = repeats message = 287 43 000	FSK-19.8bd/129Hz/FSK-CW	(AB)
<b>HM02</b>	4761	25-3	0520	Sat	156 45 = 53515 11058 58238 ... 51125 37766 50024 = 156 45 156 45 = repeats message = 156 45 000	FSK-19.8bd/129Hz/FSK-CW	(AB)
<b>HM02</b>	4761	26-3	0520	Sun	958 42 = 51060 85810 41683 ... 67508 83773 75604 = 958 42 958 42 = repeats message = 958 42 000	FSK-19.8bd/129Hz/FSK-CW	(AB)
<b>HM02</b>	4761	28-3	0420	Tue	846 51 = 88571 96459 67435 ... 57014 63729 01813 = 846 51 846 51 repeats message = 846 51 000	FSK-19.8bd/129Hz/FSK-CW	(AB)
<b>HM02</b>	4761	29-3	0520	Wed	723 50 = 43578 35118 16810 ... 88104 23833 85180 = 723 50 723 50 = repeats message = 723 50 000	FSK-19.8bd/129Hz/FSK-CW	(AB/BR)
<b>HM02</b>	4761	31-3	0420	Fri	809 46 = 12649 08179 48307 ... 06868 75986 08862 = 809 46 809 46 = repeats message = = 809 46 000	FSK-19.8bd/129Hz/FSK-CW	(AB)
<b>Jam-mer</b>	9920	21-3	1304	Tue	Vietnamese Siren jammer	AM	(ES)
<b>M01</b>	5475	2-3	1800	Thu	463 875 30 = = 87804 99904 74362 37090 58424 ... 6308 ... (as sent) 7330 87329 29227 39276 = = 875 30 000	CW	(AB/MPJ)
<b>M01</b>	5020	2-3	2000	Thu	463 764 30 = = 1..71 00467 56446 46580 46... (into noise-uncopiable)	CW	(MPJ)
<b>M01</b>	6260	4-3	1500	Sat	463 12130 71823	CW	(HFD)
<b>M01</b>	6511	5-3	0704	Sun	i.p. 94851 97215 60005 ... 70258 54507 55594 = = 123 30 123 30 000	CW	(F5JBR)
<b>M01</b>	5475	7-3	1800	Tue	463 = = 463 234 30 = = 18886 29072 16836 75802 89364 ... 30609 (30509) 19676 12765 64836 38708 = = 234 30 = = 000	CW	(MPJ/HFD)
<b>M01</b>	5020	7-3	2000	Tue	463 432 30 = = 41737 53913 25526 48124 28640 ... 90671 35612	CW	(MPJ)

					63955 84639 39669 = = 432 30 000		
M01	5020	9-3	2000	Thu	463 857 33 18309 44136 67537 62507 85074 ... 64328 15424 93099 19863 56609 = = 857 30 (!!) 000	CW	(MPJ)
M01	6260	11-3	1502	Sat	463 174 30 = 48269 80332 à... 20029 97060 = 174 20 000. Lots of Mistakes/stops/starts and ended with 20 Group count.	CW	(ES)
M01	5475	14-3	1800	Tue	463 callup, at 1802z carrier, nothing further	CW	(MPJ)
M01	5020	14-3	2000	Tue	463 483 30 = = 48899 59268 37940 07299 04188 ... 31086 84790 28418 82946 45625 = = 483 30 000	CW	(MPJ/HFD)
M01	5475	16-3	1800	Thu	463 (R) 122 122 30 30 = = 51849 96269 32731 ... 64411 78504 41254 = = 122 122 30 000 Lots of mistakes	MCW	(AB/MPJ)
M01	5020	16-3	2000	Thu	463 223 30 = = 76387 74648 46876 42029 54601 ... 13953 53135 88295 04707 34171 = = 223 30 000	CW	(AB/MPJ)
M01	3715	16-3	2042	Thu	477 713 33 = = 03498 80134 75656 38310 63072 ... 08615 83011 30018 90117 65724 = = 713 33 000 //4570 kHz	MCW	(MPJ)
M01	4570	16-3	2042	Thu	477 713 33 = = 03498 80134 75656 38310 63072 ... 08615 83011 30018 90117 65724 = = 713 33 000 //3715 kHz	MCW	(MPJ)
M01	6260	18-3	1500	Sat	463 910 30 = 90486 19995 12799 ... 84525 77361 51198 910 30 000	CW	(ES)
M01	6260	18-3	1500	Sat	463 910 30 = = 90486 19995 12799 51748 08752 ... 26605 21267 84525 77361 51198 = = 910 30 000	CW	(MPJ)
M01	6510	19-3	0700	Sun	463 703 30 = 89272 30796 62737 ... 18089 23847 53146 = 703 30 000	CW	(AB)
M01	5020	21-3	2000	Tue	463 874 30 = = 77363 56208 91238 91413 95779 ... 07404 97467 57225 06623 95560 = = 874 30 000	CW	(MPJ)
M01	5475	23-3	1800	Thu	463 89 30 = 57587 40937 49868 49868 67290 ... 37272 12915 58851 72183 33099 = 89 30 000	MCW	(AB/MPJ)
M01	5020	23-3	2000	Thu	463 467 30 = = 85890 91114 73054 83725 65501 ... 09386 70665 47508 27417 57551 = = 467 30 000	CW	(MPJ)
M01	3625	24-3	2002	Fri	153 713 33 = = 03498 80134 75656 38310 63072 ... 08615 83011 30018 90117 65724 = = 713 33 000 \\4940 kHz	MCW	(MPJ)
M01	4940	24-3	2002	Fri	153 713 33 = = 03498 80134 75656 38310 63072 ... 08615 83011 30018 90117 65724 = = 713 33 000 \\3625 kHz	MCW	(MPJ)
M01	5475	28-3	1759	Tue	463 123 30 = = 67634 72058 89518 41576 26668 ... 88822 82536 05375 63378 39345 = = 123 30 000	CW	(MPJ)
M01	5475	30-3	1800	Thu	463 .. 758 3 .. 758 30 = 758 30 = = = 40711 80520 80341 10972 01574 ... 38385 68845 14917 57270 09713 = = = 758 30 000	CW	(MPJ)
M01	5020	30-3	2000	Thu	463 297 30 = = = 41362 64503 18340 ... 09125 92574 39616 = = = = 297 30 000	CW	(AB/MPJ)
M01a	9129	1-3	0542	Wed	498 498 498 524 82 524 82	CW	(F5JBR-J)
M01a	3973	1-3	0632	Wed	111 999 536 10 = 27873 29074 6 111 333 = 536 10 = 27873 29074 68842 ... 536 10 111 000	CW	(F5JBR-J)
M01a	3352	1-3	1842	Wed	342 342 342 428 83 428 83	CW	(F5JBR-J)
M01a	4923	2-3	1253	Thu	849 849 849 840 03 840 03 849 849 849 786 73 786 73	CW	(F5JBR)
M01a	3774	2-3	1911	Thu	697 679 679 483 59 483 59 333 483 51 333 040 04 697 333 36 111 000	CW	(F5JBR)
M01a	3257	28-3	1647	Tue	111 000	CW	(F5JBR)
M01a	3369	28-3	1708	Tue	156 156 156 111 16 111 16 156 156 156 110 72 110 72 ...	CW	(F5JBR)
M01a	3187	28-3	1740	Tue	425 42 425 644 40 644 40 333 04 333 07 111 000	CW	(F5JBR)
M01a	3824	28-3	1850	Tue	168 168 168 914 47 914 47	CW	(F5JBR)
M01b	3510	2-3	1932	Thu	201 713 33 = = 03498 80134 75656 38310 63072 ... 08615 83011 30018 90117 65724 = = 713 33 000 //4605 kHz	MCW	(MPJ)
M01b	3510	2-3	1932	Thu	201	CW	(HFD)
M01b	4605	2-3	1932	Thu	201 713 33 = = 03498 80134 75656 38310 63072 ... 08615 83011 30018 90117 65724 = = 713 33 000 //3510 kHz	MCW	(MPJ/HFD)
M01b	3715	2-3	2042	Thu	477 713 33 = = 03498 80134 75656 38310 63072 ... 08615 83011 30018 90117 65724 = = 713 33 000	MCW	(MPJ)
M01b	3625	3-3	2002	Fri	153 713 33 = = 03498 80134 75656 38310 63072 ... 08615 83011 30018 90117 65724 = = 613 33 000	MCW	(MPJ)
M01b	3535	6-3	1910	Mon	420 713 33 = = 03498 80134 75656 38310 63072 ... 08615 83011 30018 90117 65724 = = 713 33 000 //4590 kHz	MCW	(MPJ/HFD)
M01b	4590	6-3	1910	Mon	420 713 33 = = 03498 80134 75656 38310 63072 ... 08615 83011 30018 90117 65724 = = 713 33 000 //3535 kHz	MCW	(MPJ/HFD)
M01b	3645	6-3	2017	Mon	i.p. 713 33 = = 03498 80134 75656 38310 63072 ... 08615 83011 30018 90117 65724 = = 713 33 000 //4455 kHz	MCW	(MPJ/HFD)
M01b	4455	6-3	2017	Mon	i.p. 713 33 = = 03498 80134 75656 38310 63072 ... 08615 83011 30018 90117 65724 = = 713 33 000 //3645 kHz	MCW	(MPJ/HFD)
M01b	3510	9-3	1932	Thu	201 713 33 = = 03498 80134 75656 38310 63072 ... 08615 83011 30018 90117 65724 = = 713 33 000 //4605 kHz	MCW	(MPJ)
M01b	4605	9-3	1932	Thu	201 713 33 = = 03498 80134 75656 38310 63072 ... 08615 83011 30018 90117 65724 = = 713 33 000 //3510 kHz	MCW	(MPJ)
M01b	3715	9-3	2042	Thu	477 713 33 = = 03498 80134 75656 38310 63072 ... 08615 83011 30018 90117 65724 = = 713 33 000 //4570 kHz	MCW	(MPJ)
M01b	4570	9-3	2042	Thu	477 713 33 = = 03498 80134 75656 38310 63072 ... 08615 83011 30018 90117 65724 = = 713 33 000 //3715 kHz	MCW	(MPJ)
M01b	3625	10-3	2002	Fri	153 713 33 = = 03498 80134 75656 38310 63072 ... 08615 83011 30018 90117 65734 = = 713 33 000 //4940 kHz	MCW	(MPJ/HFD)



<b>M01b</b>	4940	10-3	2002	Fri	153 713 33 == 03498 80134 75656 38310 63072 ... 08615 83011 30018 90117 65724 == 713 33 000 //3625 kHz	MCW	(MPJ/HFD)
<b>M01b</b>	3535	13-3	1910	Mon	420 713 33 == 03498 80134 75656 38310 63072 ... 08615 83011 30018 90117 65724 == 713 33 000 //4590 kHz	MCW	(MPJ/HFD)
<b>M01b</b>	4590	13-3	1910	Mon	420 713 33 == 03498 80134 75656 38310 63072 ... 08615 83011 30018 90117 65724 == 713 33 000 //3535 kHz	MCW	(MPJ/HFD)
<b>M01b</b>	3645	13-3	2015	Mon	771 713 33 == 03498 80134 75656 38310 63072 ... 08615 83011 30018 90117 65724 == 713 33 000 //4455 kHz	MCW	(MPJ/HFD)
<b>M01b</b>	4455	13-3	2015	Mon	771 713 33 == 03498 80134 75656 38310 63072 ... 08615 83011 30018 90117 65724 == 713 33 000 //3645 kHz	MCW	(MPJ/HFD)
<b>M01b</b>	3625	17-3	2002	Fri	153 713 33 == 03498 80134 75656 38210 63072 ... 08615 83011 30018 90117 65724 == 713 33 000 //4940 kHz	MCW	(MPJ)
<b>M01b</b>	4940	17-3	2002	Fri	153 713 33 == 03498 80134 75656 38210 63072 ... 08615 83011 30018 90117 65724 == 713 33 000 //3625 kHz	MCW	(MPJ)
<b>M01b</b>	3535	20-3	1910	Mon	420 713 33 == 03498 80134 75656 38310 63072 ... 08615 83011 30018 90117 65724 == 713 33 000 //4590 kHz	MCW	(MPJ)
<b>M01b</b>	4590	20-3	1910	Mon	420 713 33 == 03498 80134 75656 38310 63072 ... 08615 83011 30018 90117 65724 == 713 33 000 //3535 kHz	MCW	(MPJ)
<b>M01b</b>	3645	20-3	2015	Mon	771 713 33 == 03498 80134 75656 38310 63072 ... 08615 83011 30018 90117 65724 == 713 33 000 //4455 kHz	MCW	(MPJ)
<b>M01b</b>	4455	20-3	2015	Mon	771 713 33 == 03498 80134 75656 38310 63072 ... 08615 83011 30018 90117 65724 == 713 33 000 //3645 kHz	MCW	(MPJ)
<b>M01b</b>	3510	23-3	1932	Thu	201 713 33 == 03498 80134 75656 38310 63072 ... 08615 83011 30018 90117 65724 == 713 33 000	MCW	(MPJ)
<b>M01b</b>	3715	23-3	2042	Thu	477 713 33 == 03498 80134 75656 38310 63072 ... 08615 83011 30018 90117 65724 == 713 33 000 //4570 kHz	MCW	(MPJ)
<b>M01b</b>	4570	23-3	2042	Thu	477 713 33 == 03498 80134 75656 38310 63072 ... 08615 83011 30018 90117 65724 == 713 33 000 //3715 kHz	MCW	(MPJ)
<b>M01b</b>	3535	27-3	1810	Mon	420 713 33 == 03498 80134 75656 38310 63072 ... 08615 83011 30018 90117 65724 == 713 33 000 //4590 kHz	MCW	(MPJ)
<b>M01b</b>	4590	27-3	1810	Mon	420 713 33 == 03498 80134 75656 38310 63072 ... 08615 83011 30018 90117 65724 == 713 33 000 //3535 kHz	MCW	(MPJ)
<b>M01b</b>	3645	27-3	1915	Mon	771 713 33 == 03498 80134 75656 38310 63072 ... 08615 83011 30018 90117 65724 == 713 33 000 //4455 kHz	MCW	(MPJ)
<b>M01b</b>	4455	27-3	1915	Mon	771 713 33 == 03498 80134 75656 38310 63072 ... 08615 83011 30018 90117 65724 == 713 33 000 //3645 kHz	MCW	(MPJ)
<b>M01b</b>	3510	30-3	1832	Thu	201 713 33 == 03498 80134 75656 38310 63072 ... 08615 83011 30018 90117 65724 == 713 33 000 //4605 kHz	MCW	(MPJ)
<b>M01b</b>	4605	30-3	1832	Thu	201 713 33 == 03498 80134 75656 38310 63072 ... 08615 83011 30018 90117 65724 == 713 33 000 //7516 kHz	MCW	(MPJ)
<b>M01b</b>	3715	30-3	1942	Thu	477 713 33 == 03498 80134 75656 38310 63072 ... 08615 83011 30018 90117 65724 == 713 33 000 //4570 kHz	MCW	(MPJ)
<b>M01b</b>	4570	30-3	1942	Thu	477 713 33 == 03498 80134 75656 38310 63072 ... 08615 83011 30018 90117 65724 == 713 33 000 //3715 kHz	MCW	(MPJ)
<b>M12</b>	16276	1-3	1400	Wed	283 283 283 000	CW	(ES)
<b>M12</b>	14876	1-3	1420	Wed	283 283 283 000	CW	(ES/MPJ)
<b>M12</b>	5763	1-3	2200	Wed	714 1 3161 113 55642 33641 84085 ... 20824 41956 11123 000 000	CW	(AB-RUS/HFD)
<b>M12</b>	5163	1-3	2220	Wed	714 1 3161 113 55642 33641 84085 ... 20824 41956 11123 000 000	CW	(AB/HFD)
<b>M12</b>	4463	1-3	2240	Wed	714 1 3161 113 55642 33641 84085 ... 20824 41956 11123 000 000	CW	(AB/HFD)
<b>M12</b>	11576	2-3	0903	Thu	i.p. 72062 91103 82763 000 000	CW	(ES)
<b>M12</b>	14769	2-3	1010	Thu	721 1 7244 71 29650 34490 85710 57757 03417 ...	CW	(MPJ)
<b>M12</b>	12214	2-3	1310	Thu	282 1 4678 95 69614 05925 40159 ... 71011 39472 23561 000 000	CW	(AB/ES/HFD)
<b>M12</b>	10814	2-3	1330	Thu	282 1 4678 95 69614 05925 40159 ... 71011 39472 23561 000 000	CW	(AB/MPJ/ES/H FD)
<b>M12</b>	9214	2-3	1350	Thu	282 1 4678 95 69614 05925 40159 ... 71011 39472 23561 000 000	CW	(AB/MPJ/ES/H FD)
<b>M12</b>	8158	4-3	0600	Sat	126 1 3161 113 55642 33641 84085 ... 20824 41956 11123 000 000	CW	(AB/HFD)
<b>M12</b>	9258	4-3	0620	Sat	126 1 3161 113 55642 33641 84085 ... 20824 41956 11123 000 000	CW	(AB/HFD)
<b>M12</b>	10658	4-3	0640	Sat	126 1 3161 113 55642 33641 84085 ... 20824 41956 11123 000 000	CW	(AB/HFD)
<b>M12</b>	12214	4-3	1310	Sat	282 1 4678 95 69614 05925 40159 ... 71011 39472 23561 000 000	CW	(AB)
<b>M12</b>	10814	4-3	1330	Sat	282 1 4678 95 69614 05925 40159 ... 71011 39472 23561 000 000	CW	(AB)
<b>M12</b>	9214	4-3	1350	Sat	282 1 4678 95 69614 05925 40159 ... 71011 39472 23561 000 000	CW	(AB)
<b>M12</b>	14769	5-3	1010	Sun	721 1 7244 71 29650 34490 85710 ... 34594 66596 85268 000 000	CW	(AB/HFD)
<b>M12</b>	16269	5-3	1030	Sun	721 1 7244 71 29650 34490 85710 ... 34594 66596 85268 000 000	CW	(AB/HFD)
<b>M12</b>	18169	5-3	1050	Sun	721 1 7244 71 29650 34490 85710 ... 34594 66596 85268 000 000	CW	(AB/HFD)
<b>M12</b>	18169	5-3	1050	Sun	721 0	CW	(HFD)
<b>M12</b>	9060	6-3	0910	Mon	ip then 687 2 dual message!	CW	(HFD)
<b>M12</b>	16276	6-3	1400	Mon	283 1 6475 79 89408 74375 31908 ... 36270 69714 95151 000 000	CW	(AB/MPJ)
<b>M12</b>	14876	6-3	1420	Mon	283 1 6475 79 89408 74375 31908 ... 36270 69714 95151 000 000	CW	(AB/MPJ)
<b>M12</b>	13376	6-3	1440	Mon	283 1 6475 79 89408 74375 31908 ... 36270 69714 95151 000 000	CW	(AB/MPJ)

M12	16276	8-3	1400	Wed	283 1 6475 79 89408 74375 31908 ... 36270 69714 95151 000 000	CW	(AB/MPJ)
M12	14876	8-3	1420	Wed	283 1 6475 79 89408 74375 31908 ... 36270 69714 95151 000 000	CW	(AB/MPJ)
M12	13376	8-3	1440	Wed	283 1 6475 79 89408 74375 31908 ... 36270 69714 95151 000 000	CW	(AB/MPJ)
M12	5763	8-3	2200	Wed	714 714 714 000	CW	(AB)
M12	5163	8-3	2220	Wed	714 714 714 000	CW	(AB)
M12	14769	9-3	1010	Thu	721 721 721 000	CW	(ES)
M12	16269	9-3	1010	Thu	721 721 721 000	CW	(ES)
M12	13386	9-3	1300	Thu	725 1 915 71 59190 56591 à... 15066 98823 000 000	CW	(ES)
M12	12214	9-3	1310	Thu	282 282 282 000	CW	(AB/ES)
M12	12189	9-3	1320	Thu	725 1 915 71 59190 56591 à... 15066 98823 000 000	CW	(ES)
M12	10814	9-3	1330	Thu	282 282 282 000	CW	(AB/ES)
M12	11491	9-3	1340	Thu	725 1 915 71 59190 56591 à... 15066 98823 000 000	CW	(ES)
M12	8158	11-3	0600	Sat	126 126 126 000	CW	(AB/ES)
M12	9258	11-3	0620	Sat	126 126 126 000	CW	(AB/ES)
M12	12214	11-3	1310	Sat	282 282 282 000	CW	(AB/MPJ/ES)
M12	10814	11-3	1330	Sat	282 282 282 000	CW	(AB/MPJ/ES)
M12	14769	12-3	1010	Sun	721 721 721 000	CW	(AB)
M12	16269	12-3	1030	Sun	721 721 721 000	CW	(AB)
M12	16276	13-3	1400	Mon	283 283 283 000	CW	(AB/MPJ)
M12	14876	13-3	1420	Mon	283 283 283 000	CW	(AB/MPJ)
M12	9317	14-3	0700	Tue	135 1 2429 80 08837 82602 78783 ... 97497 77597 88419 000 000	CW	(AB)
M12	16276	15-3	1400	Wed	283 283 283 000	CW	(AB/MPJ/ES)
M12	14876	15-3	1420	Wed	283 283 283 000	CW	(AB/MPJ/ES)
M12	9176	15-3	1800	Wed	257 1	CW	(HFD)
M12	7931	15-3	1820	Wed	257 1	CW	(HFD)
M12	6904	15-3	1840	Wed	257 1	CW	(HFD)
M12	5763	15-3	2200	Wed	714 1 8303 93 17290 41218 93931 ... 96564 81454 94035 000 000	CW	(AB)
M12	5163	15-3	2220	Wed	714 1 8303 93 17290 41218 93931 ... 96564 81454 94035 000 000	CW	(AB)
M12	4463	15-3	2240	Wed	714 1 8303 93 17290 41218 93931 ... 96564 81454 94035 000 000	CW	(AB)
M12	14769	16-3	1010	Thu	721 1 9043 103 25254 80037 35191 ... 55882 97385 38904 000 000	CW	(AB/ES)
M12	16269	16-3	1030	Thu	721 1 9043 103 25254 80037 35191 ... 55882 97385 38904 000 000	CW	(AB/ES)
M12	18169	16-3	1050	Thu	721 1 9043 103 25254 80037 35191 ... 55882 97385 38904 000 000	CW	(AB/ES)
M12	12214	16-3	1310	Thu	282 1 3660 81 81307 78908 18223 ... 04397 71559 90690 000 000	CW	(AB/MPJ/ES)
M12	10814	16-3	1330	Thu	282 1 3660 81 81307 78908 18223 ... 04397 71559 90690 000 000	CW	(AB/MPJ/ES)
M12	9214	16-3	1350	Thu	282 1 3660 81 81307 78908 18223 ... 04397 71559 90690 000 000	CW	(AB/MPJ/ES)
M12	8158	18-3	0600	Sat	126 1 8303 93 17290 41218 93931 ... 96564 81454 94035 000 000	CW	(AB/ES)
M12	9258	18-3	0620	Sat	126 1 8303 93 17290 41218 93931 ... 96564 81454 94035 000 000	CW	(AB/ES)
M12	10658	18-3	0640	Sat	126 1 8303 93 17290 41218 93931 ... 96564 81454 94035 000 000	CW	(AB/ES/F5JBR)
M12	12214	18-3	1310	Sat	282 1 3660 81 81307 78908 18223 ... 04397 71559 90690 000 000	CW	(AB/MPJ/RL/ES)
M12	10814	18-3	1330	Sat	282 1 3660 81 81307 78908 18223 ... 04397 71559 90690 000 000	CW	(AB/MPJ/ES)
M12	9214	18-3	1350	Sat	282 1 3660 81 81307 78908 18223 ... 04397 71559 90690 000 000	CW	(AB/MPJ/ES)
M12	14769	19-3	1010	Sun	721 1 9043 103 25254 80037 35191 ... 55882 97385 38904 000 000	CW	(AB)
M12	16269	19-3	1030	Sun	721 1 9043 103 25254 80037 35191 ... 55882 97385 38904 000 000	CW	(AB)
M12	18169	19-3	1050	Sun	721 1 9043 103 25254 80037 35191 ... 55882 97385 38904 000 000	CW	(AB)
M12	16276	20-3	1400	Mon	283 1 2914 103 85498 55090 77981 ... 75613 00859 13612 000 000	CW	(AB/MPJ)
M12	14876	20-3	1420	Mon	283 1 2914 103 85498 55090 77981 ... 75613 00859 13612 000 000	CW	(AB/MPJ)
M12	13376	20-3	1440	Mon	283 1 2914 103 85498 55090 77981 ... 75613 00859 13612 000 000	CW	(AB/MPJ)
M12	16276	22-3	1400	Wed	283 1 2914 103 85498 55090 77981 48522 76515 ... 81422 58278 75613 00859 13612 000 000	CW	(MPJ/ES)
M12	14876	22-3	1420	Wed	283 1 2914 103 85498 55090 77981 48522 76515 ... 81422 58278 75613 00859 13612 000 000	CW	(MPJ/ES)
M12	13376	22-3	1440	Wed	283 1 2914 103 85498 55090 77981 48522 76515 ... 81422 58278 75613 00859 13612 000 000	CW	(MPJ/ES)
M12	5763	22-3	2200	Wed	714 714 714 000	CW	(AB)
M12	5163	22-3	2220	Wed	714 714 714 000	CW	(AB)
M12	14769	23-3	1010	Thu	721 721 721 000	CW	(AB/MPJ/ES)
M12	16269	23-3	1030	Thu	721 721 721 000	CW	(AB/MPJ/ES)
M12	12214	23-3	1310	Thu	282 282 282 000	CW	(RL/ES)
M12	10814	23-3	1330	Thu	282 282 282 000	CW	(ES)
M12	8158	25-3	0600	Sat	126 126 126 000	CW	(AB/ES)
M12	9258	25-3	0620	Sat	126 126 126 000	CW	(AB/ES)
M12	12214	25-3	1310	Sat	282 282 282 000	CW	(AB)
M12	10814	25-3	1330	Sat	282 282 282 000	CW	(AB/RL)
M12	16276	27-3	1400	Mon	283 283 283 000	CW	(AB/MPJ)
M12	14876	27-3	1420	Mon	283 283 283 000	CW	(AB/MPJ)
M12	16276	29-3	1400	Wed	283 283 283 000	CW	(AB/MPJ)

M12	14876	29-3	1420	Wed	283 283 283 000	CW	(AB/MPJ)
M12	5763	29-3	2200	Wed	714 1 055 75 43563 78568 53593 ... 84156 97239 11151 000 000	CW	(AB)
M12	5163	29-3	2220	Wed	714 1 055 75 43563 78568 53593 ... 84156 97239 11151 000 000	CW	(AB)
M12	4463	29-3	2240	Wed	714 1 055 75 43563 78568 53593 ... 84156 97239 11151 000 000	CW	(AB)
M12	14769	30-3	1010	Thu	721 1 3515 91 41705 56546 11102 ... 86763 08294 98946 000 000	CW	(AB/MPJ)
M12	16269	30-3	1030	Thu	721 1 3515 91 41705 56546 11102 ... 86763 08294 98946 000 000	CW	(AB/MPJ)
M12	18169	30-3	1050	Thu	721 1 3515 91 41705 56546 11102 ... 86763 08294 98946 000 000	CW	(AB-RUS)
M12	12214	30-3	1310	Thu	282 1 1017 73 13904 97074 25443 ... 71575 85000 45025 000 000	CW	(AB)
M12	10814	30-3	1330	Thu	282 1 1017 73 13904 97074 25443 ... 71575 85000 45025 000 000	CW	(AB)
M12	9214	30-3	1350	Thu	282 1 1017 73 13904 97074 25443 ... 71575 85000 45025 000 000	CW	(AB)
M14	8167	2-3	1012	Thu	058 624 31 = 16927 74613 80623 ... 53427 49343 84154 624 31 00000	CW	(ES)
M14	9463	2-3	1033	Thu	058 624 31 = 16927 74613 80623 ... 53427 49343 84154 624 31 00000	CW	(ES)
M14	5430	4-3	0800	Sat	171 518 86 32498 53900 12865 ... 20943 57286 61220 518 86 00000	CW	(AB-RUS)
M14	5560	4-3	0900	Sat	171 518 86 32498 53900 12865 ... 20943 57286 61220 518 86 00000	CW	(AB-RUS)
M14	5240	5-3	2300	Sun	376 518 86 32498 53900 12865 ... 20943 57286 61220 518 86 00000	CW	(AB)
M14	5825	6-3	0000	Mon	376 518 86 32498 53900 12865 ... 20943 57286 61220 518 86 00000	CW	(AB)
M14	5430	11-3	0800	Sat	171 171 171 00000 184 59 13253 26472 à... 84502 00000	CW	(AB-RUS/ES)
M14	5560	11-3	0900	Sat	171 171 171 00000 184 59 13253 26472 à... 84502 00000	CW	(AB-RUS/ES)
M14	17458	11-3	0930	Sat	617 617 617 00000	CW	(ES)
M14	5240	12-3	2300	Sun	376 (R4) 490 91 52378 90126 42876 ... 73809 62841 32465 490 91 00000	CW	(AB)
M14	5824	13-3	0000	Mon	376 (R4) 490 91 52378 90126 42876 ... 73809 62841 32465 490 91 00000	CW	(AB)
M14	5941	14-3	1820	Tue	346 518 86 32498	CW	(HFD)
M14	5463	15-3	1920	Wed	537 (R) 518 86 32498 53900 12865 ... 20943 57286 61220 518 86 00000	CW	(AB/MPJ)
M14	5430	18-3	0800	Sat	171 184 59 13253 26472 48950 ... 49653 12311 84502 184 59 00000	CW	(AB-RUS/ES)
M14	5560	18-3	0900	Sat	171 184 59 13253 26472 48950 ... 49653 12311 84502 184 59 00000	CW	(AB-RUS/ES)
M14	5240	19-3	2300	Sun	376 (R4) 490 91 52378 90126 42876 ... 73809 62841 32465 490 91 00000	CW	(AB)
M14	5824	20-3	0000	Mon	376 (R4) 490 91 52378 90126 42876 ... 73809 62841 32465 490 91 00000	CW	(AB)
M14	10423	20-3	1138	Mon	i.p. 06058 76176 90956 22431 75909 89968 = 974 31 00000	CW	(ES)
M14	10212	20-3	1230	Mon	058 974 31 = 75569 20761 ..... 75909 89968 974 31 00000	CW	(ES)
M14	8096	21-3	0601	Tue	i.p. 89456 89340 124 89 00000	CW	(ES)
M14	4635	21-3	1600	Tue	273 0	CW	(HFD)
M14	4635	21-3	1600	Tue	273 273 273 00000	MCW	(MPJ)
M14	5420	25-3	0800	Sat	171 490 91 52378 90126 42876 ... 73809 62841 32465 490 91 00000	CW	(AB)
M14	5560	25-3	0826	Sat	Sends several test groups	CW	(AB)
M14	5560	25-3	0829	Sat	Sends several test groups: 07246 56327 55972 98150 11568 93858	CW	(AB)
M14	5560	25-3	0900	Sat	171 490 91 52378 90126 42876 ... 73809 62841 32465 490 91 00000	CW	(AB)
M14	17458	25-3	0930	Sat	617 617 617 00000	CW	(AB-RUS)
M14	6827	26-3	0600	Sun	382 0	CW	(HFD)
M14	6990	26-3	0659	Sun	382 0	CW	(HFD)
M14	5240	26-3	2300	Sun	376 ...	CW	(AB)
M14	5824	27-3	0000	Mon	376 ...	CW	(AB)
M14	5463	29-3	1920	Wed	537 518 86 32498 53900 12865 ... 20943 57286 61220 518 86 00000	CW	(AB/MPJ/HFD)
M14	18041	31-3	0500	Fri	952 ...	CW	(AB-J)
M21	3314	1-3	1552	Wed	=991852??0????? =991853??0????? =991854??0????? =991855??0????? =991856??0?????	CW	(F5JBR)
M21	3254.5	1-3	1726	Wed	009941998046626 51799419100511650 9941998542928 00994399804671928 51799439160511650 19099431930 9941998549230 3389941998542932 3389941998542136	CW	(F5JBR)
M21	4391	2-3	1621	Thu	=1236293984420 =1236293984420 =3130091160630 =099922??0????? =12300293984921	CW	(F5JBR)
M21	3279.5	6-3	0919	Mon	=991218??0????? =991219??0????? =991220??0????? =991221??0????? =991222??0????? =991223??0?????	CW	(F5JBR)
M21	7450	7-3	0516	Tue	10001826437716 = 10002826733716 = 0000173300903 = 10002702300900 = 10003826733417	CW	(F5JBR-J)
M21	6830.5	8-3	0844	Wed	=99?1144?9????? =99?1145?9????? =99?1146?9?????	CW	(F5JBR-J)
M21	7450	9-3	0515	Thu	10002826734115 = 10003826634315 = 10004826406115	CW	(F5JBR-J)
M21	6830.5	11-3	0720	Sat	=99?1020?9????? =99?1021?9????? =99?1022?9?????	CW	(F5JBR-J)
M21	5381.5	12-3	0746	Sun	=991046??0????? =991047??0????? =991048??0?????	CW	(F5JBR-J)
M21	3996	13-3	1856	Mon	=992156??9????? =992157??9?????	CW	(F5JBR-J)



M21	5323	14-3	0658	Tue	=990958??0????? =990959??0?????	CW	(F5JBR-J)
M21	3367.5	27-3	0458	Mon	009651868 09479100746 647861599948 9649861597748 4968861595448 9653868694448 9951868095648	CW	(F5JBR)
M21	3254.5	27-3	1718	Mon	9927998369116 9927998363320	CW	(F5JBR)
M22	6357	5-3	0630	Sun	VVV DE 4XZ 4XZ //6607 kHz	CW	(F5JBR)
M22	6607	5-3	0630	Sun	VVV DE 4XZ 4XZ //6357 kHz	CW	(F5JBR)
M22	2680	13-3	1857	Mon	vvv de 4xz 4xz = =	CW	(BvR)
M22	2680	17-3	1734	Fri	4XZ	CW	(F5JBR)
M23	5417	1-3	1835	Wed	276 (R9)	CW	(AB)
M32	13366	8-3	1002	Wed	J4M6 DE GTMN K. GTMN 782 27 8 1300 782 = 571 = 28574 62210 19840 53719 ... 05327 33430 08025 K	CW	(AB)
M32	7421	11-3	0905	Sat	XXX DRAKOM 7834 K	CW	(F5JBR-J)
M32	7421	11-3	1004	Sat	XXX LW6T KOSMOS 1085 K	CW	(F5JBR-J)
M32	3829	16-3	0202	Thu	JFB5 75756 KARTOMYeTRIYa 37736239	CW	(Priyom)
M32	3829	16-3	0206	Thu	JFB5 52502 KAYuKOTYeST 65940785	CW	(Priyom)
M32	3829	16-3	0209	Thu	JFB5 50043 ADYeNOSVOD 28423656	CW	(Priyom)
M32	3829	16-3	0302	Thu	JFB5 65607 ShPOROSIP 29063299	CW	(Priyom)
M32	3829	16-3	0341	Thu	GNVY 17649 GOLUBICA 78675474	CW	(Priyom)
M32	3829	16-3	0344	Thu	GNVY 49819 KRANOPOT 47521931 BROMOVYJ 39275334	CW	(Priyom)
M32	3829	16-3	0400	Thu	GNVY 09316 ANShLAG 51440655	CW	(Priyom)
M32	3829	16-3	0422	Thu	JFB5 16884 KOGYeZIONNYJ 23067167	CW	(Priyom)
M32	5021	17-3	1529	Fri	ZhUOZ ZAUMNOST' 5430 //5096 kHz CW and at the same time also on 4625 kHz (S28 voice)	CW	(Priyom)
M32	5096	17-3	1529	Fri	ZhUOZ ZAUMNOST' 5430 //5021 kHz CW and at the same time also on 4625 kHz (S28 voice)	CW	(Priyom)
M32	7964	17-3	1648	Fri	3KWx 3KWx 3KWx DE AYAI AYAI K. OAP9 OAP9 OAP9 DE AYAI AYAI K. 5OBH 5OBH 5OBH DE AYAI AYAI K	CW	(SP1)
M32	3829	18-3	0239	Sat	2Zh8I 55278 VYeChYeVOJ 34579521	CW	(Priyom)
M32	3829	18-3	0243	Sat	2Zh8I 65545 AKSIOMA 24230211	CW	(Priyom)
M32	3829	18-3	0249	Sat	ZhP4I 68206 EKTOGYeNYeZ 52481414	CW	(Priyom)
M32	3829	18-3	0349	Sat	2BYP 67029 BUKSOSTYeK 14287386	CW	(Priyom)
M32	3829	18-3	0410	Sat	SOBG 97212 DIALYeKTIK 98255323 BALKANSKIJ 27037085	CW	(Priyom)
M32	3829	18-3	0429	Sat	2BYP 48053 KANONIK 56736358	CW	(Priyom)
M32	4979	18-3	1605	Sat	OPL QCM OK ? K. COL QCM OK ? K AS RHQ2 DE RAL2 K. QSA 3 QRU VA	CW	(JPL-NZL)
M32	4979	18-3	1707	Sat	RHQ2 DE RAL2 QSA ? QSA 2 ZNN SK RMW2 DE RAL2 QRV ? K. OK BT 128 26 17 0316 128 = SOYYK DHFKX ZDIEY ...	CW	(JPL-NZL)
M32	5210	18-3	1832	Sat	i.p. OUO2 DE JQHL K R K C.C5 DE JQHL K. R K Y4ZK DE JQHL K. R K	CW	(JPL-NZL)
M32	10953.5	20-3	1224	Mon	TUWJ TUWJ TUWJ DE MOKC MOKC ZXQ ZXT ZTS QYT9 K	CW	(AB-POL)
M32	10953.5	20-3	1229	Mon	TUWJ TUWJ TUWJ DE MOKC MOKC QBE QYT9 K	CW	(AB-POL)
M32	5096	23-3	1115	Thu	ZhUOZ 46331 KAINOGON 73484797 ANGELOChYeK 01301903 At the same time also on 4625 kHz (S28 voice)	CW	(Priyom)
M32	5096	23-3	1140	Thu	ZhUOZ 99382 ZOBOPOLK 14960354 At the same time also on 4625 kHz (S28 voice)	CW	(Priyom)
M32	5096	23-3	1248	Thu	ZhUOZ 99841 DINAS 72871361 At the same time also on 4625 kHz (S28 voice)	CW	(Priyom)
M32	5096	23-3	1305	Thu	ZhUOZ 39680 ZNAYuShchIJ 72462959 At the same time also on 4625 kHz (S28 voice)	CW	(Priyom)
M32a	7555	28-3	0951	Tue	VVV RGZ53 (x3) DE RCC (x2) ZSD ? K	CW	(JPL-NZL)
M32b	8816	17-3	0710	Fri	75271 QTO 0702 QRD XMWH XLMV QBD 0800 QRE 1150	CW	(Nige)
M32c	8029	2-3	1200	Thu	W-markers: Tu-95MS Bear H net	CW	(Tom)
M32c	8029	3-3	0900	Fri	W-markers: Tu-95MS Bear H net	CW	(Tom)
M32c	16058	3-3	0902	Fri	W-markers (harmonic of 8029 kHz)	CW	(F5JBR)
M32c	8170	10-3	0607	Fri	9GYT QTC K	CW	(F5JBR)
M32c	8029	10-3	0620	Fri	W-markers: Tu-95MS Bear H net	CW	(Tom)
M32c	8170	10-3	0630	Fri	OWDC QTC K	CW	(F5JBR)
M32c	8029	10-3	0635	Fri	MWTL = 984 222 039 119 549 819 K	CW	(F5JBR)
M32c	8170	10-3	0635	Fri	MWTL DE WRHY QTC K 984 222 039 119 549 819 K	CW	(F5JBR)
M32c	8029	15-3	0700	Wed	W-markers: Tu-95MS Bear H net	CW	(Tom)
M32c	8029	16-3	0800	Thu	W-markers: Tu-95MS Bear H net	CW	(Tom)
M32c	8029	17-3	0920	Fri	W-markers: Tu-95MS Bear H net	CW	(Tom)
M32c	8029	20-3	0600	Mon	W-markers: Tu-95MS Bear H net	CW	(Tom)
M32c	8029	20-3	0620	Mon	W-markers: Tu-95MS Bear H net	CW	(AB)
M32c	8029	20-3	0940	Mon	W-markers: Tu-95MS Bear H net	CW	(JCF)
M32c	8029	28-3	0840	Tue	W-markers: Tu-95MS Bear H net	CW	(Tom)
M32c	8029	28-3	1600	Tue	W-marker	CW	(AB)
M32c	8029	29-3	0900	Wed	W-markers: Tu-95MS Bear H net	CW	(Tom)
M32c	8029	31-3	1040	Fri	W-markers: Tu-95MS Bear H net	CW	(Tom)
M32c	8029	31-3	1120	Fri	W-markers: Tu-95MS Bear H net	CW	(AB)
M41	2071.5	1-3	1630	Wed	BTU8 BTU8 AR 722194 95049 9897 6139 1521 6018 21 722194 95049 9897 6139 1521 6018 21 K	CW	(F5JBR)
M42	9068	8-3	1140	Wed	11111 41118 51442 91910 94910 followed by a garbled 5FGs message; then ops chat in CW: CFM NIL SK	FSK 75/500	(AB)
M42	16023	14-3	2033	Tue	Russian diplo/intel. BZL26	FSK 50/500 ACF=128	(Danix-USA)
M42	12221	14-3	2039	Tue	Russian diplo/intel. BZL26	FSK 50/500	(Danix-USA)

						ACF=128	
M42	16023	14-3	2054	Tue	Russian diplo/intel. BZL26	FSK 50/500	(Danix-USA)
						ACF=128	
M42	12221	14-3	2059	Tue	Russian diplo/intel. BZL26	FSK 50/500	(Danix-USA)
						ACF=128	
M42	16023	14-3	2115	Tue	Russian diplo/intel. BZL26	FSK 50/500	(Danix-USA)
						ACF=128	
M42	12221	14-3	2119	Tue	Russian diplo/intel. BZL26	FSK 50/500	(Danix-USA)
						ACF=128	
M42	16023	14-3	2201	Tue	Russian diplo/intel. BZL26	FSK 50/500	(Danix-USA)
						ACF=128	
M42	8054.8	24-3	1525	Fri	Russian diplo. Several short messages	CROWD-36	(AB-NZL)
M42b	5833	1-3	0623	Wed	BFRW wkg WL4I. QRU NIL SK	CW	(F5JBR)
M42b	5732	3-3	0528	Fri	FGDE wkg CNOX	CW	(F5JBR)
M42b	5328	3-3	0624	Fri	WL4I wkg BFRW	CW	(F5JBR)
M42b	6110	3-3	0731	Fri	MUUZ wkg MBDI	CW	(F5JBR)
M42b	5158	3-3	1355	Fri	G5OP wkg SN7D	CW	(F5JBR)
M42b	5732	5-3	0526	Sun	FGDE wkg CNOX in CW, msg in FSK: RYRYRY 291 100 05 0500 1234 = 21876 56748 45612 ... 19643 09623 86321 =100= 0529	FSK 50/500	(F5JBR)
M42b	5328	5-3	0623	Sun	WL4I wkg BFRW	CW	(F5JBR)
M42b	5731	7-3	0855	Tue	L2RS wkg KE4T. QRU NIL QRX AR	CW	(F5JBR)
M42b	9961	8-3	0840	Wed	RYRYRY 008 100 8 0800 1234 =6! RYRYRY SLD K followed by opchat in CW: QTC1 SLD K. FLSK FLSK FLSK DE PRUCh PRUCh K. ShGUT ShGUT ShGUT DE PRUCh PRUCh K	FSK 50/500	(AB)
M42b	14456	19-3	0805	Sun	IC8U wkg K9VE	CW	(F5JBR)
M51a	3881	7-3	1602	Tue	FAV22: French Morse Lessons	CW	(MPJ)
M89	3642	1-3	1640	Wed	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	1-3	1640	Wed	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	3777	1-3	1642	Wed	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	1-3	1642	Wed	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	6069	1-3	1646	Wed	V FIK3 (x3) DE H4JH (x2)	CW	(JPL)
M89	3777	2-3	1249	Thu	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	2-3	1249	Thu	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	5801	2-3	1251	Thu	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	10180	2-3	1251	Thu	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	4609	2-3	1254	Thu	V FIK3 (x3) DE H4JH (x2)	CW	(JPL)
M89	10180	2-3	1306	Thu	DKG6 de 3A7D V	CW	(F5JBR)
M89	3642	3-3	1756	Fri	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3777	3-3	1757	Fri	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	3-3	1757	Fri	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4131	3-3	1759	Fri	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4131	3-3	1840	Fri	JKDJ (x3) de SLBC (x2) V	CW	(F5JBR)
M89	4532	4-3	2327	Sat	V M8JF (x3) DE RIS9 (x2) //6793 and 8060	CW	(JPL)
M89	6793	4-3	2327	Sat	V M8JF (x3) DE RIS9 (x2) //4532 and 8060	CW	(JPL)
M89	8060	4-3	2327	Sat	V M8JF (x3) DE RIS9 (x2) //4532 and 6793	CW	(JPL)
M89	3777	5-3	1408	Sun	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	5-3	1408	Sun	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4609	5-3	1410	Sun	V FIK3 (x3) DE H4JH (x2)	CW	(JPL)
M89	3777	5-3	1600	Sun	M8JF (x3) de RIS9 (x2) V //4532 kHz	CW	(F5JBR-J)
M89	4532	5-3	1600	Sun	M8JF (x3) de RIS9 (x2) V //3777 kHz	CW	(F5JBR-J)
M89	7602	5-3	1633	Sun	DKG6 (x3) de 3A7D (x2) V	CW	(F5JBR-J)
M89	3642	5-3	1638	Sun	DKG6 (x3) de 3A7D (x2) V	CW	(F5JBR-J)
M89	4609	5-3	1655	Sun	FIK3 (x3) de H4JH (x2) V	CW	(F5JBR-J)
M89	4060	5-3	1659	Sun	GJHS (x3) de 5GFD (x2) V	CW	(F5JBR-J)
M89	3642	5-3	1841	Sun	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	5-3	1841	Sun	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4609	5-3	1843	Sun	V FIK3 (x3) DE H4JH (x2)	CW	(JPL)
M89	6793	6-3	0455	Mon	M8JF (x3) de RIS9 (x2) V //8060 kHz	CW	(F5JBR-J)
M89	8060	6-3	0455	Mon	M8JF (x3) de RIS9 (x2) V //6793 kHz	CW	(F5JBR-J)
M89	3777	7-3	1822	Tue	M8JF (x3) de RIS9 (x2) V //4532 kHz	CW	(F5JBR-J)
M89	4609	7-3	1822	Tue	FIK3 (x3) de H4JH (x2) V	CW	(F5JBR-J)
M89	4131	7-3	1831	Tue	JKDJ (x3) de SLBC (x2) V	CW	(F5JBR-J)
M89	4532	7-3	1856	Tue	M8JF (x3) de RIS9 (x2) V //3777 kHz	CW	(F5JBR-J)
M89	8848	8-3	0651	Wed	HR MSG GA NR 5276 CK 35 49 1117 1600 RMKS 3671 TO 3984 K and 96274 43525 ...	CW	(F5JBR-J)
M89	8477	8-3	0800	Wed	YDIY DE JJCE K	CW	(F5JBR-J)
M89	8475	8-3	0807	Wed	YDIY DE JJCE QSA 3 QTC K. YDIY DE JJCE NR 8013 CK 50 22 03 08 1634 = N37T TM3U 3DDU ...	CW	(F5JBR-J)
M89	8350	8-3	0930	Wed	VVV WNF DE FXM QSA ? QSV K	CW	(JPL)
M89	10180	8-3	0954	Wed	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	10178	8-3	0956	Wed	V FIK3 (x3) DE H4JH (x2)	CW	(JPL)
M89	8038	8-3	1003	Wed	i.p. MSG NR 09 CK 221 55 0308 1640 RMKS 1173 TO 7323 K. R 01W GA =	CW	(JPL)
M89	8038	8-3	1009	Wed	i.p. AR QSL ? K K NR OK U 7G GA K	CW	(JPL)
M89	3777	8-3	1013	Wed	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	8-3	1013	Wed	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)

M89	6454	8-3	1019	Wed	i.p. 67.3 7UDA 4D3A TDU4 ... AR QSL ? K. R OK U MSG GA K	CW	(JPL)
M89	6840	8-3	1020	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5) //10640	CW	(JPL)
M89	10640	8-3	1020	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5) //6840	CW	(JPL)
M89	6245	8-3	1026	Wed	i.p. AR RPT 51W = 4537 AR QSL ? K. R OK NIL OK	CW	(JPL)
M89	5241	8-3	1040	Wed	i.p. 5D3N 757U DA5T 453N ...	CW	(JPL)
M89	5081	8-3	1053	Wed	VV WKY9 VV WKY9 VV WKY9 DE DOG5 DOG5 V VV HR U GC. WM VV HR U GICO.. =	CW	(JPL)
M89	4051	8-3	2000	Wed	VV B4MQ DE 00TY K. VV DGS3 DE 00TY K. VV DHO4 DE 00TY K. 00TY R QSA 2QSA ? K. 00TY R AS VV CJ2X DE 00TY K	CW	(F5JBR-J)
M89	10178	9-3	0953	Thu	V FIK3 (x3) DE H4JH (x2)	CW	(JPL)
M89	10180	9-3	0954	Thu	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	6802	9-3	1002	Thu	VVV DZKL (x3) DE PFTZ(x3) = YR NR 037G QSL TIME 1759 AR VVV KYNC (x3) DE PFTZ (x3) = YR NR 027G QSL	CW	(JPL)
M89	6689	9-3	1011	Thu	i.p. VV FG55 DE ADF2 K. R HR QSA 2 K. R IEC = 2195 AR K (see N&O 234)	CW	(JPL)
M89	5081	9-3	1038	Thu	VV WKY9 VV WKY9 VV WKY9 DE DOG5 (x2) V	CW	(JPL)
M89	3777	9-3	1042	Thu	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	9-3	1042	Thu	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4444	9-3	1043	Thu	i.p. MSG GA 1 = = 643U .U35 TNNA 643U ...	CW	(JPL)
M89	5081	9-3	1105	Thu	i.p. R 4W = DN4T AR K. AGN K. R AGN 11W = 4N5N AR K ... WKY9 DE DOG5	CW	(JPL)
M89	4860	9-3	1120	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5) //6840	CW	(JPL)
M89	6840	9-3	1120	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5) //4860	CW	(JPL)
M89	4720	9-3	1130	Thu	VVV WNF DE FXM QSA ? QSV K	CW	(JPL)
M89	3642	9-3	1641	Thu	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	9-3	1641	Thu	V DKG6 (x3) DE 3A7D (x2) //36422	CW	(JPL)
M89	4131	9-3	1706	Thu	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	10178	10-3	0919	Fri	V FIK3 (x3) DE H4JH (x2) I	CW	(JPL)
M89	6840	10-3	0920	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5) //10640	CW	(JPL)
M89	10640	10-3	0920	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5) //6840	CW	(JPL)
M89	3777	10-3	0928	Fri	V M8JF (x3) DE RIS9 (x2) //4532 and 6793	CW	(JPL)
M89	4532	10-3	0928	Fri	V M8JF (x3) DE RIS9 (x2) //3777 and 6793	CW	(JPL)
M89	6793	10-3	0928	Fri	V M8JF (x3) DE RIS9 (x2) //3777 and 4532	CW	(JPL)
M89	8350	10-3	0930	Fri	VVV WNF DE FXM QSA ? QSV K	CW	(JPL)
M89	6782	10-3	1016	Fri	i.p. A3D6 7ATU N53T ... AR R MSG GA K	CW	(JPL)
M89	6773	10-3	1030	Fri	i.p. RPT R HR WK NR NR 110 K. R Q 2K DK R RPT 1.4GW K. R RPT 2P 31W K	CW	(JPL)
M89	3642	10-3	1612	Fri	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	10-3	1612	Fri	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4609	10-3	1615	Fri	V FIK3 (x3) DE H4JH (x2)	CW	(JPL)
M89	4860	10-3	1620	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5) //6840	CW	(JPL)
M89	6840	10-3	1620	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5) //4860	CW	(JPL)
M89	10178	11-3	0659	Sat	FIK3 (x3) de H4JH (x2) V	CW	(F5JBR-J)
M89	6793	11-3	0701	Sat	M8JF (x3) de RIS9 (x2) V //8060	CW	(F5JBR-J)
M89	8060	11-3	0701	Sat	M8JF (x3) de RIS9 (x2) V //6793	CW	(F5JBR-J)
M89	3642	12-3	1619	Sun	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	12-3	1619	Sun	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4860	12-3	1620	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5) //6840	CW	(JPL)
M89	6840	12-3	1620	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5) //4860	CW	(JPL)
M89	3777	12-3	1623	Sun	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	12-3	1623	Sun	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4609	12-3	1628	Sun	i.p. 3T3A 545U D4UN 6AU7 ... AR	CW	(JPL)
M89	4178	12-3	1901	Sun	i.p. R QSA 2 QSA ? K. R IEC = 2149 AR K. R FJUX8 DE I3LX K. VD6DL DE I3LX K ...	CW	(F5JBR-J)
M89	3642	12-3	2119	Sun	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3777	12-3	2122	Sun	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	12-3	2122	Sun	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	3642	13-3	1748	Mon	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	13-3	1748	Mon	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	3777	13-3	1749	Mon	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	13-3	1749	Mon	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4609	13-3	1752	Mon	V FIK3 (x3) DE H4JH (x2)	CW	(JPL)
M89	3777	14-3	1509	Tue	V M8JF (x3) DE RIS9 (x2) (/ 4532	CW	(JPL)
M89	4532	14-3	1509	Tue	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4609	14-3	1511	Tue	V FIK3 (x3) DE H4JH (x2)	CW	(JPL)
M89	3995	14-3	1519	Tue	i.p. F NR 4923/EX 2318 RMKS CQ = ABCD/E1F2/GHBA AR (see N&O 234)	CW	(JPL)
M89	4131	14-3	1749	Tue	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	7602	14-3	1757	Tue	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3397	14-3	1759	Tue	i.p. 7U3N 67AD 7A5T TDA6 563T 74UT ... III K (see N&O 234) QSX 3356 M89 CW (JPL)	CW	(JPL)
M89	3356	14-3	1801	Tue	i.p. 7U3N 67AD 7A5T TDA6 563T 74UT ... III K (see N&O 234) QSX 3397 M89 CW (JPL)	CW	(JPL)
M89	10178	14-3	2304	Tue	V FIK3 (x3) DE H4JH (x2)	CW	(JPL)
M89	6793	14-3	2312	Tue	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	4860	14-3	2320	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840	CW	(JPL)

M89	6840	14-3	2320	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//4860	CW	(JPL)
M89	4720	14-3	2330	Tue	VVV WNF DE FXM QSA ? QSV K //5150	CW	(JPL)
M89	5150	14-3	2330	Tue	VVV WNF DE FXM QSA ? QSV K //4720	CW	(JPL)
M89	10178	15-3	0919	Wed	V FIK3 (x3) DE H4JH (x2)	CW	(JPL)
M89	6840	15-3	0920	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//10640	CW	(JPL)
M89	10640	15-3	0920	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840	CW	(JPL)
M89	3777	15-3	0925	Wed	V M8JF (x3) DE RIS9 (x2) //6793 and 8060	CW	(JPL)
M89	6793	15-3	0925	Wed	V M8JF (x3) DE RIS9 (x2) //3777 and 8060	CW	(JPL)
M89	8060	15-3	0925	Wed	V M8JF (x3) DE RIS9 (x2) //3777 and 6793	CW	(JPL)
M89	10178	15-3	0945	Wed	V FIK3 FIK3 FIK3 de H4JH H4JH	CW	(LG3)
M89	5843	15-3	1207	Wed	i.p. 4UND 67A4 D554 D6U4 NUUT ... AR K (see N&O 234)	CW	(JPL)
M89	5566	15-3	1221	Wed	i.p. 6UNN A554 5A7U 75TA ... III = TTAN 5774 NNNU 73UA ... III = 34UN T5U6 4744 ... III = 6D3N AR	CW	(JPL)
M89	8940	15-3	1400	Wed	VVV VYU VYU VYU de LMO LMO	CW	(LG3)
M89	6840	15-3	1419	Wed	VVV Q2M Q2M Q2M de NYZ NYZ QSA? K	CW	(LG3)
M89	4532	15-3	1440	Wed	V M8JF M8JF M8JF de RIS9 RIS9	CW	(LG3)
M89	3777	15-3	1505	Wed	V M8JF M8JF M8JF de RIS9 RIS9	CW	(LG3)
M89	4609	15-3	1610	Wed	V FIK3 FIK3 FIK3 de H4JH H4JH	CW	(LG3)
M89	3642	15-3	1814	Wed	V DKG6 (x3) DE 3A7D (x2) //760	CW	(JPL)
M89	7602	15-3	1814	Wed	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	4609	15-3	1827	Wed	V FIK3 (x3) DE H4JH (x2)	CW	(JPL)
M89	4131	15-3	1828	Wed	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4720	15-3	1830	Wed	VVV WNF DE FXM QSA ? QSV K //5150	CW	(JPL)
M89	5150	15-3	1830	Wed	VVV WNF DE FXM QSA ? QSV K //4720	CW	(JPL)
M89	6840	16-3	1020	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//10640	CW	(JPL)
M89	10640	16-3	1020	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840	CW	(JPL)
M89	10180	16-3	1023	Thu	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	10178	16-3	1024	Thu	V FIK3 (x3) DE H4JH (x2)	CW	(JPL)
M89	8350	16-3	1030	Thu	VVV WNF DE FXM QSA ? QSV K	CW	(JPL)
M89	3777	16-3	1032	Thu	V M8JF (x3) DE RIS9 (x2) //4532 and 6793	CW	(JPL)
M89	4532	16-3	1032	Thu	V M8JF (x3) DE RIS9 (x2) //3777 and 6793	CW	(JPL)
M89	6793	16-3	1032	Thu	V M8JF (x3) DE RIS9 (x2) //3777 and 4532	CW	(JPL)
M89	5566	16-3	1037	Thu	i.p. T7D3 W OK GA 3P 1W BT N54A T.3U 5T3A 4N3A ... OK TKS U GB	CW	(JPL)
M89	5555	16-3	1117	Thu	i.p. RMKS 8573 TO 8576 K. .. GA R = .43A U4TT 3N45 ...	CW	(JPL)
M89	3642	16-3	1707	Thu	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	16-3	1707	Thu	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4131	16-3	1709	Thu	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4609	16-3	1710	Thu	V FIK3 (x3) DE H4JH (x2)	CW	(JPL)
M89	3777	16-3	1714	Thu	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	16-3	1714	Thu	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4860	16-3	1720	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840	CW	(JPL)
M89	6840	16-3	1720	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//4860	CW	(JPL)
M89	4720	16-3	1730	Thu	VVV WNF DE FXMQSA ? QSV K //5150	CW	(JPL)
M89	5150	16-3	1730	Thu	VVV WNF DE FXM QSA ? QSV K //4720	CW	(JPL)
M89	4860	17-3	1120	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840	CW	(JPL)
M89	6840	17-3	1120	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//4860	CW	(JPL)
M89	3777	17-3	1126	Fri	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	17-3	1126	Fri	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	5801	17-3	1128	Fri	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	10180	17-3	1128	Fri	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	4720	17-3	1130	Fri	VVV WNF DE FXM QSA ? QSV K //5150	CW	(JPL)
M89	5150	17-3	1130	Fri	VVV WNF DE FXM QSA ? QSV K //4720	CW	(JPL)
M89	4609	17-3	1215	Fri	V FIK3 (x3) DE H4JH (x2)	CW	(JPL)
M89	5018	17-3	1219	Fri	i.p. 7T5D 55D6 ? 5D6 633N 5DDA NN45 73? 756T ... AR K R R OK	CW	(JPL)
M89	3642	17-3	1441	Fri	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	17-3	1441	Fri	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4051	17-3	1443	Fri	i.p. 3UU3 A4A5 A5A4 D33N DU3T ... AR R CJ2X QSL ? K R SK	CW	(JPL)
M89	4710	17-3	1712	Fri	i.p. 5U7DN D7335 7U777 7T6D6 5U5N7 ... AR	CW	(JPL)
M89	4131	17-3	1825	Fri	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4720	17-3	1830	Fri	VVV WNF DE FXM QSA ? QSV K //5150	CW	(JPL)
M89	5150	17-3	1830	Fri	VVV WNF DE FXM QSA ? QSV K //4720	CW	(JPL)
M89	3777	17-3	1845	Fri	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	17-3	1845	Fri	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	3642	17-3	1846	Fri	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	17-3	1846	Fri	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	10178	18-3	0635	Sat	V FIK3 (x3) DE H4JH (x2)	CW	(JPL)
M89	8060	18-3	0640	Sat	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	10180	18-3	0959	Sat	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	10178	18-3	1000	Sat	V FIK3 (x3) DE H4JH (x2)	CW	(JPL)
M89	3777	18-3	1001	Sat	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	18-3	1001	Sat	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	5656	18-3	1015	Sat	i.p. R HR MSG GA K. MSG GA NR NR 4018 CK 200 49 0318 1800 RMKS CQ K	CW	(JPL)
M89	6840	18-3	1020	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//10640	CW	(JPL)
M89	10640	18-3	1020	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840	CW	(JPL)



M89	4913	18-3	1023	Sat	i.p. U7A4 T3D5 U3T7 D4U...	CW	(JPL)
M89	8350	18-3	1030	Sat	VVV WNF DE FXM QSA ? QSV K	CW	(JPL)
M89	3642	18-3	1601	Sat	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	18-3	1601	Sat	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4609	18-3	1604	Sat	V FIK3 (x3) DE H4JH (x2)	CW	(JPL)
M89	5555	18-3	1609	Sat	i.p. 3N7D 7D5T N3TA D6UT DTNT D57D ... AR 7G GA NR 0091 ...	CW	(JPL)
M89	7602	18-3	1610	Sat	DKG6 (x3) de 3A7D (x2) V	CW	(F5JBR)
M89	4860	18-3	1620	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840	CW	(JPL)
M89	6840	18-3	1620	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//4860	CW	(JPL)
M89	4720	18-3	1630	Sat	VVV WNF DE FXM QSA ? QSV K //5150	CW	(JPL)
M89	5150	18-3	1630	Sat	VVV WNF DE FXM QSA ? QSV K //4720	CW	(JPL)
M89	3777	19-3	1242	Sun	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	19-3	1242	Sun	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4609	19-3	1243	Sun	V FIK3 (x3) DE H4JH (x2)	CW	(JPL)
M89	4244	19-3	1251	Sun	i.p. 4T45 4UTU D576 DT73 A435 ... AR K. R OK HR NR 106 K. SK	CW	(JPL)
M89	5892	19-3	1306	Sun	i.p. NA73 UD57 DNU4 D6T7 ... K W? W? AGN R HR IP 20W GA BT TU46 N4D5 ...	CW	(JPL)
M89	4532	20-3	0853	Mon	V M8JF (x3) DE RIS9 (x2) //6793 and 8060	CW	(JPL)
M89	6793	20-3	0853	Mon	V M8JF (x3) DE RIS9 (x2) //4532 and 8060	CW	(JPL)
M89	8060	20-3	0853	Mon	V M8JF (x3) DE RIS9 (x2) //4532 and 6793	CW	(JPL)
M89	10178	20-3	0855	Mon	V TR2Q (x3) DE 5TUH (x2)	CW	(JPL)
M89	5923	20-3	0902	Mon	i.p. R R .. 17. K R = .45D N4.. UN55 ...	CW	(JPL)
M89	3777	20-3	1330	Mon	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	20-3	1330	Mon	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4609	20-3	1333	Mon	V TR2Q (x3) DE 5TUH (x2)	CW	(JPL)
M89	5688	20-3	1351	Mon	i.p. 46D7 73AN 7DTA 4UDN ... AR QSL ? HR WK NR 300 K	CW	(JPL)
M89	4720	20-3	1630	Mon	VVV WNF DE FXM QSA ? QSV K //5150	CW	(JPL)
M89	5150	20-3	1630	Mon	VVV WNF DE FXM QSA ? QSV K //4720	CW	(JPL)
M89	3642	20-3	1632	Mon	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	20-3	1632	Mon	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	5150	21-3	1030	Tue	VVV WNF DE FXM QSA ? QSV K //8350	CW	(JPL)
M89	8350	21-3	1030	Tue	VVV WNF DE FXM QSA ? QSV K //5150	CW	(JPL)
M89	10180	21-3	1032	Tue	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	10178	21-3	1033	Tue	V TR2Q (x3) DE 5TUH (x2)	CW	(JPL)
M89	3777	21-3	1036	Tue	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	21-3	1036	Tue	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4860	21-3	1120	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840	CW	(JPL)
M89	6840	21-3	1120	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//4860	CW	(JPL)
M89	5148	21-3	1126	Tue	i.p. R MSG GA R 1P = 46N4 TDUU 3AAU 7355 ...	CW	(JPL)
M89	4720	21-3	1130	Tue	VVV WNF DE FXM QSA ? QSV K //5150	CW	(JPL)
M89	5150	21-3	1130	Tue	VVV WNF DE FXM QSA ? QSV K //4720	CW	(JPL)
M89	4609	21-3	1212	Tue	V TR2Q (x3) DE 5TUH (x2)	CW	(JPL)
M89	4860	21-3	1420	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840	CW	(JPL)
M89	6840	21-3	1420	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//4860	CW	(JPL)
M89	3642	21-3	1421	Tue	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	21-3	1421	Tue	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	5678	21-3	1434	Tue	i.p. AR 56DN 756D 6U..	CW	(JPL)
M89	10178	22-3	0032	Wed	V TR2Q (x3) DE 5TUH (x2) `	CW	(JPL)
M89	5801	22-3	1019	Wed	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	10180	22-3	1019	Wed	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	6840	22-3	1020	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//10640	CW	(JPL)
M89	10640	22-3	1020	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840	CW	(JPL)
M89	10178	22-3	1026	Wed	V TR2Q (x3) DE 5TUH (x2)	CW	(JPL)
M89	3777	22-3	1027	Wed	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	22-3	1027	Wed	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	8350	22-3	1030	Wed	VVV WNF DE FXM QSA ? QSV K	CW	(JPL)
M89	6797	22-3	1033	Wed	i.p. R HR WK NR 213 K. R RPT 2P 05W K	CW	(JPL)
M89	4860	22-3	1120	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840	CW	(JPL)
M89	6840	22-3	1120	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//4860	CW	(JPL)
M89	4609	22-3	1126	Wed	V TR2Q (x3) DE 5TUH (x2)	CW	(JPL)
M89	4720	22-3	1130	Wed	VVV WNF DE FXM QSA ? QSV K //5150	CW	(JPL)
M89	5150	22-3	1130	Wed	VVV WNF DE FXM QSA ? QSV K //4720	CW	(JPL)
M89	3642	22-3	1500	Wed	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	22-3	1500	Wed	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4616	22-3	1936	Wed	i.p. 2P 94W TO 97W K. PLN QSL 0336 K. WK NR 118 K. DE .9K. K	CW	(JPL)
M89	3777	23-3	1305	Thu	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	23-3	1305	Thu	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4609	23-3	1309	Thu	V FIK3 (x3) DE H4JH (x2)	CW	(JPL)
M89	3642	23-3	1947	Thu	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	4609	23-3	1948	Thu	V FIK3 (x3) DE H4JH (x2)	CW	(JPL)
M89	3777	23-3	1949	Thu	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	23-3	1949	Thu	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	5840	24-3	0729	Fri	VVV 2FER 2FER DE EZF1 K. R U 7G GA K. GA QSL 1538 K	CW	(JPL)
M89	6793	24-3	0731	Fri	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	8060	24-3	0731	Fri	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	10178	24-3	0812	Fri	V FIK3 (x3) DE H4JH (x2)	CW	(JPL)

M89	10640	24-3	0820	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)	CW	(JPL)
M89	3642	24-3	1903	Fri	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	24-3	1903	Fri	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	3777	24-3	1913	Fri	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	24-3	1913	Fri	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4609	24-3	1915	Fri	V FIK3 (x3) DE H4JH (x2)	CW	(JPL)
M89	4860	24-3	1920	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840	CW	(JPL)
M89	6840	24-3	1920	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//4860	CW	(JPL)
M89	4720	24-3	1930	Fri	VVV WNF DE FXM QSA ? QSV K	CW	(JPL)
M89	3696	25-3	1452	Sat	i.p. R QSL 2255 K. HR WK NR 212 K. R VA I6IW de 5PJS K ...	CW	(F5JBR)
M89	3691	25-3	1719	Sat	LI7 (x3) DE WSW (x2) V and MSG NR 41CK 41 CK41 == 6UTU3Eà AR AR K	CW	(F5JBR)
M89	4131	25-3	1746	Sat	JKDJ (x3) de SLBC (x2) V	CW	(F5JBR)
M89	3642	25-3	1748	Sat	DKG6 (x3) de 3A7D (x2) V	CW	(F5JBR)
M89	3777	25-3	1750	Sat	M8JF (x3) de RIS9 (x2) V //4532	CW	(F5JBR)
M89	3850	26-3	1722	Sun	Q2M (x3) de NYZ (x2) VVV	CW	(F5JBR-J)
M89	3642	26-3	1726	Sun	DKG6 (x3) de 3A7D (x2) V	CW	(F5JBR-J)
M89	3777	26-3	1731	Sun	M8JF (x3) de RIS9 (x2) V //4532	CW	(F5JBR-J)
M89	4532	26-3	1731	Sun	M8JF (x3) de RIS9 (x2) V //3777	CW	(F5JBR-J)
M89	3642	27-3	1739	Mon	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	27-3	1739	Mon	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	3777	27-3	1740	Mon	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	27-3	1740	Mon	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4609	27-3	1742	Mon	V FIK3 (x3) DE H4JH (x2)	CW	(JPL)
M89	4131	27-3	1746	Mon	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	10178	28-3	0902	Tue	V FIK3 (x3) DE H4JH (x2)	CW	(JPL)
M89	3777	28-3	0944	Tue	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	28-3	0944	Tue	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	10180	28-3	0945	Tue	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	5616	28-3	1003	Tue	(i.p. /3725/3595/3775/3770/3549/3535/3565 TO 3545 AR K. MSG GA = = 7AN3 STNU A4N7 37TD 7UDA 6AD7 5ND	CW	(JPL)
M89	5566	28-3	1009	Tue	i.p. 5S 555 550 000 = ...5N53U6 3N	CW	(JPL)
M89	4720	28-3	1030	Tue	VVV WNF DE FXM QSA ? QSV K	CW	(JPL)
M89	4883	28-3	1123	Tue	i.p. 8ZFS 8ZFS K. R RPT 49W .... R R FFF NR FF NR 4259/EX 1924 RMKS CQ =	CW	(JPL)
M89	3642	28-3	1658	Tue	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	28-3	1658	Tue	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	8060	29-3	0703	Wed	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	6793	29-3	0714	Wed	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	8060	29-3	0714	Wed	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	5801	29-3	1117	Wed	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	10180	29-3	1117	Wed	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	4609	29-3	1119	Wed	i.p. 7G NR 136 CK 499 44 0309 1900 = UD5. 4..T D6U7 U67...	CW	(JPL)
M89	4860	29-3	1120	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5) //6840	CW	(JPL)
M89	6840	29-3	1120	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5) //4860	CW	(JPL)
M89	3777	29-3	1144	Wed	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	29-3	1144	Wed	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	6793	30-3	0731	Thu	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	8060	30-3	0731	Thu	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	10178	30-3	0831	Thu	V FIK3 (x3) DE H4JH (x2) //N/H	CW	(JPL)
M89	9139	30-3	0842	Thu	i.p. 755A 3N34 6U43 A335 7NUT 74N5 ... AR AR K ... R	CW	(JPL)
M89	3642	30-3	1739	Thu	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	30-3	1739	Thu	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	3777	30-3	1740	Thu	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	30-3	1740	Thu	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4609	30-3	1741	Thu	V FIK3 (x3) DE H4JH (x2)	CW	(JPL)
M89	4131	30-3	1752	Thu	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	10178	31-3	0849	Fri	V FIK3 (x3) DE H4JH (x2) //N/H	CW	(JPL)
M89	10154	31-3	0851	Fri	i.p. 6554 T7TD AUD7 U574 D3TA D3TN 53TN ... AR K. R R ON OK R R OK OK R R OK OK K	CW	(JPL)
M89	9339	31-3	0859	Fri	i.p. 75U3 DN45 34DU N6T4 D653 ... AR K K R SK SK	CW	(JPL)
M89	6793	31-3	0903	Fri	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	8060	31-3	0903	Fri	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	6840	31-3	0920	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//8360 and 10640	CW	(JPL)
M89	8360	31-3	0920	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840 and 10640	CW	(JPL)
M89	10640	31-3	0920	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840 and 8360	CW	(JPL)
M89	3777	31-3	0935	Fri	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	31-3	0935	Fri	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	3642	31-3	1452	Fri	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	31-3	1452	Fri	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4131	31-3	1454	Fri	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4609	31-3	1455	Fri	V FIK3 (x3) DE H4JH (x2)	CW	(JPL)
M89	4639	31-3	1458	Fri	i.p. R HR 7G GA K. R 7G NR 9312 CK 112 13 0331 1257 RMKS 4850 TO 4885 K R = 75N5 37A. .73U .5N. 4TDA	CW	(JPL)
M95	5632	8-3	1031	Wed	i.p. AR R 4W BT D63N AR K. R 88W BT 3TN4 AR K. R U WK NR ? R KP VV UBVD DE I3LO K (see N&O 234)	CW	(JPL-NZL)

M95	8073	10-3	1137	Fri	V BNGC (x3) DE XSV85 (x2) HR MSG GA PSE CY NR NR 0227 CK 197 35 0309 1610 = = TTN 3U6 3.N 3U7 TAU 773 TA7 773 ...	CW	(JPL-HK)
M95	3344	12-3	1558	Sun	6LMI DE MG5D HR MSG GA K. 6LMI DE MG5D QSA 2 QSA ? K. 6LMI DE MG5D R QSL 2300 K	CW	(F5JBR-J)
M95	4178	13-3	1910	Mon	G9KF DE I3LO K. VVV U6ET DE I3LO K. I3LO DE U6ET K. I3LO R QSA 2 QSA ? K (see N&O 234)	CW	(F5JBR-J)
M95	3788	14-3	1532	Tue	i.p. /CCK CK 91 67 0314 2230 RMKS 5885 TO 6214 = (see N&O 234)	CW	(JPL-J)
M95	4123	14-3	1532	Tue	PHWS DE WUIL K. WUIL DE PHWS K. WUIL QSA 2 QSA ? K. PHWS QSA 2 K (see N&O 234)	CW	(F5JBR-J)
M95	4243	14-3	2346	Tue	i.p. (mostly unreadable) //9054 kHz	CW	(JPL-J)
M95	9054	14-3	2346	Tue	i.p. (mostly unreadable) //4243 kHz	CW	(JPL-J)
M95	4364	15-3	1138	Wed	V BNGC (x3) DE XSV85 (x2) HR MSGS GA PSE CY NR 0244 CK 192 35 0315 1543 = TA5 3U6 AND 3U7 TAU 773 TA7 ... //8073 kHz	CW	(JPL-NZL)
M95	8073	15-3	1138	Wed	V BNGC (x3) DE XSV85 (x2) HR MSGS GA PSE CY NR 0244 CK 192 35 0315 1543 = TA5 3U6 AND 3U7 TAU 773 TA7 ... //4364 kHz	CW	(JPL-NZL)
M95	4243	15-3	1148	Wed	HR MSG TO YR PSE CY NR 073 CK 17 35 0315 1524 = 5TD U.T TA5 ... //9054 kHz	CW	(JPL-NZL)
M95	9054	15-3	1148	Wed	HR MSG TO YR PSE CY NR 073 CK 17 35 0315 1524 = 5TD U.T TA5 ... //4243 kHz	CW	(JPL-NZL)
M95	5165	15-3	1234	Wed	i.p. DE CU.. K. R HR QSA 2 K. R IEC = PG AR K. R HR NR 141 K (see N&O 234)	CW	(JPL-NZL)
M95	5018	15-3	1245	Wed	i.p. RMKS 1285 TO 5164 K. R R 13 = D44N 4NDA D.37 ... AR K	CW	(JPL-NZL)
M95	8073	16-3	1139	Thu	XSV85 i.p. PSE CY NR 0U48 CK A79 35 0316 1606 = TA6 3U6 3AN 3U7 TAU 773 357 373 ...	CW	(JPL-NZL)
M95	4243	16-3	1146	Thu	HR 7G TO YR PSE CY NR 075 CK 17 35 0316 1520 = 5TD UTT TA6 3U6 3A4 353 4TN U74 N4A 434 ...	CW	(JPL-NZL)
M95	4364	17-3	1136	Fri	V BNGC (x3) DE XSV85 (x2) HR 7G GA PSE CY NR 0250 CK 175 35 0317 1522 = TA7 3UD 3AN 3U7 TAU 773 353 ... //8073 kHz	CW	(JPL-NZL)
M95	8073	17-3	1136	Fri	V BNGC (x3) DE XSV85 (x2) HR 7G GA PSE CY NR 0250 CK 175 35 0317 1522 = TA7 3UD 3AN 3U7 TAU 773 353 ... //4364 kHz	CW	(JPL-NZL)
M95	4243	17-3	1149	Fri	VVV HR 7G TO YR PSE CY NR 077 18 35 0317 1441 = 5TD UTT TA7 3U6 3A4 ... //9054 kHz	CW	(JPL-NZL)
M95	9054	17-3	1149	Fri	VVV HR 7G TO YR PSE CY NR 077 18 35 0317 1441 = 5TD UTT TA7 3U6 3A4 ... //4243 kHz	CW	(JPL-NZL)
M95	5725	20-3	1330	Mon	V B8JH (x3) DE V7HY (x2) HR CQ = 7G NR 80/CCK CK 28 81 0320 2330 RMKS 4137 TO 80479 7.70 .898 (see N&O 234)	CW	(JPL-NZL)
M95	4364	21-3	1137	Tue	V BNGC (x3) DE XSV85 (x2) HR MSG GA PSE CY NR 0258 CK 114 35 0321 1644= TUA 3U4 3A4 TAU 773 ... //8073 kHz	CW	(JPL-NZL)
M95	8073	21-3	1137	Tue	V BNGC (x3) DE XSV85 (x2) HR MSG GA PSE CY NR 0258 CK 114 35 0321 1644= TUA 3U4 3A4 TAU 773 ... //4364 kHz	CW	(JPL-NZL)
M95	4243	21-3	1147	Tue	VVV HR 7G TO YR PSE CY NR 085 CK 35 35 0321 1433 = 5TD UTT TUA 3U6 7T3 7TA N44 3A4 35U N3D ... //9054 kHz	CW	(JPL-NZL)
M95	9054	21-3	1147	Tue	VVV HR 7G TO YR PSE CY NR 085 CK 35 35 0321 1433 = 5TD UTT TUA 3U6 7T3 7TA N44 3A4 35U N3D ... //4243 kHz	CW	(JPL-NZL)
M95	4615	21-3	1214	Tue	i.p. RMKS 6871. TO 685.. = 7G NR 088/CCK CK 40 43 0321 2010 RMKS 687. TO 6854 K	CW	(JPL-NZL)
M95	4243	21-3	2347	Tue	i.p. AR A HR MSG GA NR 086 20 35 0322 0630 = 5T. UTT .UU 3.4 3A4 353 ... //9054 kHz	CW	(JPL-NZL)
M95	9054	21-3	2347	Tue	i.p. AR A HR MSG GA NR 086 20 35 0322 0630 = 5T. UTT .UU 3.4 3A4 353 ... //4243 kHz	CW	(JPL-NZL)
M95	4363	22-3	0008	Wed	V BNGC (x3) DE XSV85 (x2) HR MSG GA PSE CY NR 0260 CK 112 35 0322 0700 = TAU 3U4 3A4 TTU 773 TA7 773 357 ... //8073 kHz	CW	(JPL-NZL)
M95	8073	22-3	0008	Wed	V BNGC (x3) DE XSV85 (x2) HR MSG GA PSE CY NR 0260 CK 112 35 0322 0700 = TAU 3U4 3A4 TTU 773 TA7 773 357 ... //4364 kHz	CW	(JPL-NZL)
M95	4363	22-3	1138	Wed	V BNGC (x3) DE XSV85 (x2) HR MSG GA PSE CY NR 0261 CK 219 35 0322 1611 = TUU 3U6 3AN 3U7 TAU 773 TA7 773 357 ... //8073 kHz	CW	(JPL-NZL)
M95	8073	22-3	1138	Wed	V BNGC (x3) DE XSV85 (x2) HR MSG GA PSE CY NR 0261 CK 219 35 0322 1611 = TUU 3U6 3AN 3U7 TAU 773 TA7 773 357 ... //4364 kHz	CW	(JPL-NZL)
M95	4243	22-3	1146	Wed	NR 087 CK 19 35 0322 1515 = 5TD UTT TUU 3U6 3A4 353 4T7 N3D 4TA U7U ... //9054 kHz	CW	(JPL-NZL)
M95	9054	22-3	1146	Wed	NR 087 CK 19 35 0322 1515 = 5TD UTT TUU 3U6 3A4 353 4T7 N3D 4TA U7U ... //4243 kHz	CW	(JPL-NZL)
M95	4364	28-3	1139	Tue	V BNGC (x3) DE XSV85 (x2) A HR MSGS GA PSE CY NR 0282 CK 27 35 03U8 1542 = TT3 N5U TUT N53 T.D N54 7TT TTT 746 7T5 ... //8073 kHz	CW	(JPL-HK)
M95	8073	28-3	1139	Tue	V BNGC (x3) DE XSV85 (x2) A HR MSGS GA PSE CY NR 0282 CK 27 35 03U8 1542 = TT3 N5U TUT N53 T.D N54 7TT TTT 746 7T5 ... //4364 kHz	CW	(JPL-HK)
M95	4243	28-3	1146	Tue	A HR 7G TO YR PSE CY NR 099 CK 20 35 0328 1530 = 5TD UTT TUD 3U6 3A4 354 373 4TN NAT 463 //9054 kHz	CW	(JPL-HK)
M95	9054	28-3	1146	Tue	A HR 7G TO YR PSE CY NR 099 CK 20 35 0328 1530 = 5TD UTT TUD 3U6 3A4 354 373 4TN NAT 463 //4243 kHz	CW	(JPL-HK)
M95	4364	29-3	1137	Wed	V BNGC (x3) DE XSV85 (x2) HR 7G GA PSE CY NR 0285 CK 181 35	CW	(JPL-NZL)

					0329 1545 = TUN 3U6 3AN 3U7 TAU ... //8073 kHz		
M95	8073	29-3	1137	Wed	V BNGC (x3) DE XSV85 (x2) HR 7G GA PSE CY NR 0285 CK 181 35 0329 1545 = TUN 3U6 3AN 3U7 TAU ... //4364 kHz	CW	(JPL-NZL)
M95	4343	29-3	1148	Wed	VV HR MSG TO YR PSE CY NR 001 CK 20 35 0329 1450 = 5TD UTT TUN 3U6 3A4 ... //9054 kHz	CW	(JPL-NZL)
M95	9054	29-3	1148	Wed	VV HR MSG TO YR PSE CY NR 001 CK 20 35 0329 1450 = 5TD UTT TUN 3U6 3A4 ... //4243 kHz	CW	(JPL-NZL)
MC03	3021	12-3	1616	Sun	ZD2 ZD2 ZD2 = 0645N5747 = TD46733 = 47D4A633ATT47 = TD4673D4D = TD467UD4N = T645ND3 = NT7D4N = TD455355T =	CW	(F5JBR-J)
MX	7509.1	1-3	2022	Wed	Beacon A, Astrakhan	CW	(MPJ)
MX	7508.7	1-3	2023	Wed	Beacon D, Sevastopol	CW	(MPJ)
MX	5154	2-3	1840	Thu	Beacon C, Moscow	CW	(AB)
MX	5154.1	2-3	1840	Thu	Beacon A, Astrakhan	CW	(AB)
MX	5156.9	2-3	1840	Thu	Beacon L, St Petersburg	CW	(AB)
MX	7508.7	2-3	1840	Thu	Beacon D, Sevastopol	CW	(AB)
MX	7509.1	2-3	1840	Thu	Beacon A, Astrakhan	CW	(AB)
MX	4150	2-3	2131	Thu	Beacon V	CW	(AB)
MX	5156.8	6-3	1900	Mon	Beacon L, Skt Peterburg	CW	(MPJ)
MX	5153.9	6-3	1902	Mon	Beacon S, Severomorsk	CW	(MPJ)
MX	5154	6-3	1903	Mon	Beacon C, Moscow	CW	(MPJ)
MX	16332.1	8-3	0540	Wed	Beacon A, Astrakhan	CW	(AB)
MX	9442	9-3	1005	Thu	Beacon P, Kaliningrad	CW	(ES)
MX	16332.4	10-3	0540	Fri	Beacon M, Magadan	CW	(F5JBR-J)
MX	13528.4	10-3	0549	Fri	Beacon M, Magadan	CW	(F5JBR-J)
MX	7508.7	11-3	1058	Sat	Beacon D, Sevastopol	CW	(AB)
MX	8495	11-3	1058	Sat	Beacon C, Moscow	CW	(AB)
MX	13527.7	11-3	1058	Sat	Beacon D, Sevastopol	CW	(AB)
MX	13527.9	11-3	1058	Sat	Beacon S, Sevoromorsk	CW	(AB)
MX	13528	11-3	1058	Sat	Beacon C, Moscow	CW	(AB)
MX	16331.9	11-3	1058	Sat	Beacon S, Sevoromorsk	CW	(AB)
MX	16332.1	11-3	1058	Sat	Beacon A, Astrakhan	CW	(AB)
MX	16332.7	11-3	1058	Sat	Beacon D, Sevastopol	CW	(AB)
MX	16331.7	18-3	1032	Sat	Beacon D, Sevastopol	CW	(AB)
MX	16332.1	18-3	1032	Sat	Beacon A, Astrakhan	CW	(AB)
MX	15327.7	18-3	1033	Sat	Beacon D, Sevastopol	CW	(AB)
MX	15327.9	18-3	1033	Sat	Beacon S, Sevastopol	CW	(AB)
MX	15328	18-3	1033	Sat	Beacon C, Moscow	CW	(AB)
MX	10871.7	18-3	1034	Sat	Beacon D, Sevastopol	CW	(AB)
MX	10871.9	18-3	1034	Sat	Beacon S, Sevastopol	CW	(AB)
MX	10872	18-3	1034	Sat	Beacon C, Moscow	CW	(AB)
MX	8497.8	18-3	1040	Sat	Beacon L, St Petersburg	CW	(AB)
MX	7508.7	23-3	2052	Thu	Beacon D, Sevastopol	CW	(AB)
MX	7509.2	23-3	2052	Thu	Beacon A, Astrakhan	CW	(AB)
MX	7509.9	23-3	2052	Thu	Beacon S, Severomorsk	CW	(AB)
MX	9363	24-3	1030	Fri	Beacon S. Transmits for 4 mins every hour/h+30	CW	(ES)
MX	4150	25-3	1953	Sat	Beacon V	CW	(ES)
MX	16332.2	28-3	0438	Tue	Beacon F, Vladivostok	CW	(F5JBR-J)
MX	16332.4	28-3	0438	Tue	Beacon M, Magadan	CW	(F5JBR-J)
MX	13528.2	28-3	0446	Tue	Beacon F, Vladivostok	CW	(F5JBR-J)
MX	13528.4	28-3	0446	Tue	Beacon M, Magadan	CW	(F5JBR-J)
MX	8497.8	30-3	1809	Thu	Beacon L, St Petersburg	CW	(AB)
MX	5156.9	31-3	1545	Fri	Beacon L, St Petersburg	CW	(AB)
Q26	9197.5	8-3	2349	Wed	QFXX QFXX QFXX DE GHUA GHUA GHUA QSL 0748 JYJYJYJY HR MSG GA PSE CY 0261 91 18 0309 0745 3187---5738 0080 4088 7002 4749 1106 ... QSL +	4+4 QPSK 75/3000 LSB	(K3DCW)
Q26	8073	10-3	1131	Fri	Messages	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	4364	15-3	1134	Wed	Messages //8073 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	8073	15-3	1134	Wed	Messages //4364 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	4243	15-3	1142	Wed	Messages //9054 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	9054	15-3	1142	Wed	Messages //4243 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	4243	16-3	1142	Thu	Messages	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	4364	17-3	1132	Fri	Messages //8073 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	8073	17-3	1132	Fri	Messages //4364 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	4243	17-3	1141	Fri	Messages //9054 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	9054	17-3	1141	Fri	Messages //4243 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	4364	21-3	1133	Tue	Messages //8073 kHz	4+4 QPSK 75/3000	(JPL-NZL)



							LSB	
<b>Q26</b>	8073	21-3	1133	Tue	Messages //4364 kHz		4+4 QPSK 75/3000	(JPL-NZL)
							LSB	
<b>Q26</b>	4243	21-3	1141	Tue	Messages //9054 kHz		4+4 QPSK 75/3000	(JPL-NZL)
							LSB	
<b>Q26</b>	9054	21-3	1141	Tue	Messages //4243 kHz		4+4 QPSK 75/3000	(JPL-NZL)
							LSB	
<b>Q26</b>	4364	22-3	0002	Wed	Messages //8073 kHz		4+4 QPSK 75/3000	(JPL-NZL)
							LSB	
<b>Q26</b>	8073	22-3	0002	Wed	Messages //4364 kHz		4+4 QPSK 75/3000	(JPL-NZL)
							LSB	
<b>Q26</b>	4364	22-3	1131	Wed	Messages //8073 kHz		4+4 QPSK 75/3000	(JPL-NZL)
							LSB	
<b>Q26</b>	8073	22-3	1132	Wed	Messages //4364 kHz		4+4 QPSK 75/3000	(JPL-NZL)
							LSB	
<b>Q26</b>	4243	22-3	1140	Wed	Messages //9054 kHz		4+4 QPSK 75/3000	(JPL-NZL)
							LSB	
<b>Q26</b>	9054	22-3	1140	Wed	Messages //4243 kHz		4+4 QPSK 75/3000	(JPL-NZL)
							LSB	
<b>Q26</b>	4243	28-3	1143	Tue	Messages //9054 kHz		4+4 QPSK 75/3000	(JPL-HK)
							LSB	
<b>Q26</b>	9054	28-3	1143	Tue	Messages //4243 kHz		4+4 QPSK 75/3000	(JPL-HK)
							LSB	
<b>Q26</b>	4364	29-3	1131	Wed	Messages //8073 kHz		4+4 QPSK 75/3000	(JPL-NZL)
							LSB	
<b>Q26</b>	8073	29-3	1131	Wed	Messages //4364 kHz		4+4 QPSK 75/3000	(JPL-NZL)
							LSB	
<b>Q26</b>	4243	29-3	1142	Wed	Messages //9054 kHz		4+4 QPSK 75/3000	(JPL-NZL)
							LSB	
<b>Q26</b>	9054	29-3	1142	Wed	Messages //4243 kHz		4+4 QPSK 75/3000	(JPL-NZL)
							LSB	
<b>Q26</b>	7553	31-3	0906	Fri	XSV70: messages		4+4 QPSK 75/3000	(JPL-NZL)
							LSB	
<b>RAv</b>	11360	21-3	1257	Tue	Korsar w/76553 (IL-76MD) reporting landing at Glinozem (Russian AB Chernyakhovsk) at 1555 MSK		USB	(RP-MD)
<b>RMv</b>	4763	20-3	0517	Mon	Russian military: Strogiiy, I'm Vestnik. Let's switch to scrambling device (in Russian), followed by an OFDM transmission		USB	(AB)
<b>S06</b>	16268	2-3	0930	Thu	842 709 33 10880 20656 23425 ... 40296 82945 93194 709 33 00000		USB	(AB-J)
<b>S06</b>	16268	3-3	0930	Fri	842 709 33 10880 20656 23425 ... 40296 82945 93194 709 33 00000		USB	(AB-J)
<b>S06</b>	4538	4-3	2000	Sat	913 913 913 00000		USB	(HFD)
<b>S06</b>	3894	4-3	2100	Sat	913 913 913 00000		USB	(HFD)
<b>S06</b>	9463	14-3	1000	Tue	480 126 40 34415 80223 55958 ... 05259 79739 54765 126 40 00000		USB	(ES)
<b>S06</b>	7353	14-3	1030	Tue	480 126 40 34415 80223 55958 ... 05259 79739 54765 126 40 00000		USB	(ES)
<b>S06</b>	9337	14-3	1230	Tue	480 126 40 34415 80223 55958 ... 05259 79739 54765 126 40 00000		USB	(ES)
<b>S06</b>	8077	14-3	1300	Tue	480 126 40 34415 80223 55958 ... 05259 79739 54765 126 40 00000		USB	(ES)
<b>S06</b>	14913	14-3	1500	Tue	387 251 47 29701 39029 23956 ... 48451 09682 35323 251 47 00000		USB	(Danix/HFD)
<b>S06</b>	10387	14-3	1600	Tue	387 251 47 29701 39029 23956 ... 48451 09682 35323 251 47 00000		USB	(Danix/HFD)
<b>S06</b>	12176	15-3	1425	Wed	583 127 53 33083 58825 86245 ... 76537 55634 12867 127 53 00000		USB	(Danix)
<b>S06</b>	9237	17-3	2000	Fri	514 514 514 00000		USB	(HFD)
<b>S06</b>	6774	17-3	2100	Fri	514 514 514 00000		USB	(AB/SP1/MPJ/HFD)
<b>S06</b>	4538	18-3	2000	Sat	913 913 913 00000		USB	(AB)
<b>S06</b>	3894	18-3	2100	Sat	913 913 913 00000		USB	(AB/SG)
<b>S06</b>	8096	21-3	0601	Tue	i.p. 45783 45893 90457 34896 56784 23674 34895 89456 89340 124 89 00000		USB	(ES)
<b>S06</b>	9463	21-3	1000	Tue	480 619 45 29892 12160 ..... 76308 38133 619 45 00000		USB	(ES)
<b>S06</b>	9337	21-3	1230	Tue	480 619 45 29892 12160 ..... 76308 38133 619 45 00000		USB	(ES)
<b>S06</b>	8077	21-3	1300	Tue	480 619 45 29892 12160 ..... 76308 38133 619 45 00000		USB	(ES)
<b>S06</b>	9082	22-3	0830	Wed	464 231 5 38322		USB	(HFD)
<b>S06</b>	9952	22-3	0840	Wed	464		USB	(HFD)
<b>S06</b>	19415	24-3	0830	Fri	842 195 36 48527 16580 79885 ... 76042 91936 86707 195 36 00000		USB	(AB-J)
<b>S06</b>	16268	24-3	0930	Fri	842 195 36 48527 16580 79885 ... 76042 91936 86707 195 36 00000		USB	(AB-J)
<b>S06</b>	9463	28-3	1000	Tue	480 912 43 07833 86229 49643 ... 00790 29330 09572 912 43 00000		USB	(ES)
<b>S06</b>	7353	28-3	1030	Tue	480 912 43 07833 86229 49643 ... 00790 29330 09572 912 43 00000		USB	(ES)

					00000			
S06	9337	28-3	1230	Tue	480 912 43 07833 86229 49643 ... 00790 29330 09572 912 43	USB	(ES)	
					00000			
S06	8077	28-3	1300	Tue	480 912 43 07833 86229 49643 ... 00790 29330 09572 912 43	USB	(AB/ES)	
					00000			
S06	16268	31-3	0930	Fri	842 570 37 ...	USB	(AB-J)	
S06c	7823	7-3	1016	Tue	11625	USB	(ES)	
S06c	8171	21-3	0944	Tue	11625	USB	(ES)	
S06c	8171	21-3	1004	Tue	11625	USB	(ES)	
S06c	8171	22-3	0950	Wed	11625	USB	(ES)	
S06c	8171	22-3	1005	Wed	11625	USB	(ES)	
S06s	8630	1-3	0820	Wed	471 905 6 38034 39477 33367 27444 22200 54762 905 6 00000	USB	(AB/HFD)	
S06s	8630	1-3	0820	Wed	471 905 6 38034	USB	(HFD)	
S06s	9082	1-3	0830	Wed	464 823 5 34031 33430 37536 34096 39698 823 5 00000	USB	(ES)	
S06s	9255	1-3	0830	Wed	471 905 6 38034 39477 33367 27444 22200 54762 905 6 00000	USB	(AB/ES)	
S06s	9255	1-3	0830	Wed	471	USB	(HFD)	
S06s	11530	1-3	0830	Wed	745 913 6 34888 33661 27167 27671 42391 30642 913 6 00000	USB	(AB/ES)	
S06s	12140	1-3	0840	Wed	745 913 6 34888 33661 27167 27671 42391 30642 913 6 00000	USB	(AB/HFD)	
S06s	13365	1-3	1000	Wed	729 863 5 47755 42352 34458 46934 35790 863 5 00000	USB	(AB)	
S06s	14505	1-3	1010	Wed	729 863 5 47755 42352 34458 46934 35790 863 5 00000	USB	(AB/ES)	
S06s	9081	2-3	0930	Thu	314 859 6 38034 39477 33367 37555 33300 35454 859 6 00000	USB	(AB)	
S06s	10514	2-3	0940	Thu	314 859 6 38034 39477 33367 37555 33300 35454 859 6 00000	USB	(AB/ES)	
S06s	12415	2-3	1200	Thu	425 836 7 82333 36958 39423 48076 33739 33384 33898 836 7	USB	(AB/MPJ/HFD)	
					00000			
S06s	14212	2-3	1210	Thu	425 836 7 82333 36958 39423 48076 33739 33384 33898 836 7	USB	(AB/MPJ/HFD)	
					00000			
S06s	5744	3-3	0900	Fri	624 501 7 33136 36133 47101 33046 40432 33224 95986 501 7	USB	(AB)	
					00000			
S06s	6524	3-3	0910	Fri	624 501 7 33136 36133 47101 33046 40432 33224 95986 501 7	USB	(AB)	
					00000			
S06s	12140	3-3	0930	Fri	516 294 7 31900 38466 36534 32840 48436 81480 30762 294 7	USB	(AB-I/HFD)	
					00000			
S06s	13515	3-3	0940	Fri	516 294 7 31900 38466 36534 32840 48436 81480 30762 294 7	USB	(AB-I/HFD)	
					00000			
S06s	10350	4-3	0800	Sat	254 837 6 49294 38064 31724 37324 39316 46660 837 6 00000	USB	(AB/HFD)	
S06s	8520	4-3	0810	Sat	254 837 6 49294 38064 31724 37324 39316 46660 837 6 00000	USB	(AB/HFD)	
S06s	9220	6-3	0830	Mon	371 950 6 40909 39394 35083 42571 32785 37331 950 6 00000	USB	(AB/HFD)	
S06s	8270	6-3	0840	Mon	371 950 6 40909 39394 35083 42571 32785 37331 950 6 00000	USB	(AB/HFD)	
S06s	14580	6-3	0900	Mon	872 450 6 41322 86067 25487 44036 36806 37188 450 6 00000	USB	(AB-I/HFD)	
S06s	13165	6-3	0910	Mon	872 450 6 41322 86067 25487 44036 36806 37188 450 6 00000	USB	(AB/HFD)	
S06s	9145	6-3	1200	Mon	831 250 6 35401 34072 83030 32030 34005 36870 250 6 00000	USB	(AB/HFD)	
S06s	11460	6-3	1210	Mon	831 250 6 35401 34072 83030 32030 34005 36870 250 6 00000	USB	(AB/HFD)	
S06s	15855	7-3	0600	Tue	438 902 6 44086	USB	(HFD)	
S06s	16485	7-3	0610	Tue	438 902 6 44086	USB	(HFD)	
S06s	5760	7-3	0700	Tue	374 850 6 38367 33406 42366 37868 37250 39967 850 6 00000	USB	(AB/HFD)	
S06s	6930	7-3	0715	Tue	374 850 6 38367 33406 42366 37868 37250 39967 850 6 00000	USB	(AB/ES/HFD)	
S06s	7425	7-3	0730	Tue	427 983 5 36184 36194 37650 43773 46793 983 5 00000	USB	(AB/ES/HFD)	
S06s	11560	7-3	0740	Tue	427 983 5 36184 36194 37650 43773 46793 983 5 00000	USB	(AB/HFD)	
S06s	11635	7-3	0800	Tue	352 481 6 35342 32537 42983 35751 35375 57176 481 6 00000	USB	(AB/ES/HFD)	
S06s	10420	7-3	0810	Tue	352 481 6 35342 32537 42983 35751 35375 57176 481 6 00000	USB	(AB/HFD)	
S06s	6410	7-3	1000	Tue	893 541 6 43337 89152 46544 36478 31315 36184 541 6 00000	USB	(AB/HFD)	
S06s	7340	7-3	1010	Tue	893 541 6 43337 89152 46544 36478 31315 36184 541 6 00000	USB	(AB/ES/HFD)	
S06s	6190	7-3	1100	Tue	754 983 6 32679 93099 36570 39628 40224 41899 983 6 00000	USB	(AB/HFD)	
S06s	7230	7-3	1110	Tue	754 983 6 32679 93099 36570 39628 40224 41899 983 6 00000	USB	(AB/ES/HFD)	
S06s	6464	7-3	1500	Tue	537 982 6 83404 43347 36198 30083 84583 30085 982 6 00000	USB	(AB/HFD)	
S06s	7242	7-3	1510	Tue	537 982 6 83404 43347 36198 30083 84583 30085 982 6 00000	USB	(AB/MPJ/HFD)	
S06s	8630	8-3	0820	Wed	471 905 6 38034 39477 33367 27444 22200 54762 905 6 00000	USB	(AB/ES)	
S06s	9082	8-3	0830	Wed	464 823 5 34031 33430 37536 34096 39698 823 5 00000	USB	(AB/ES)	
S06s	9255	8-3	0830	Wed	471 905 6 38034 39477 33367 27444 22200 54762 905 6 00000	USB	(AB)	
S06s	11530	8-3	0830	Wed	745 913 6 34888 33661 27167 27671 42391 30642 913 6 00000	USB	(AB/ES)	
S06s	9952	8-3	0840	Wed	464 823 5 34031 33430 37536 34096 39698 823 5 00000	USB	(AB)	
S06s	12140	8-3	0840	Wed	745 913 6 34888 33661 27167 27671 42391 30642 913 6 00000	USB	(AB)	
S06s	13365	8-3	1000	Wed	729 863 5 47755 42352 34458 46934 35790 863 5 00000	USB	(AB/HFD)	
S06s	14505	8-3	1010	Wed	729 863 5 47755 42352 34458 46934 35790 863 5 00000	USB	(AB/ES/HFD)	
S06s	9081	9-3	0930	Thu	314 859 6 38034 39477 33367 37555 33300 35454 859 6 00000	USB	(AB/ES/HFD)	
S06s	10514	9-3	0940	Thu	314 859 6 38034 39477 33367 37555 33300 35454 859 6 00000	USB	(AB/HFD)	
S06s	12415	9-3	1200	Thu	425 836 7 82333 36958 39423 48076 33739 33384 33898 836 7	USB	(AB)	
					00000			
S06s	14212	9-3	1210	Thu	425 836 7 82333 36958 39423 48076 33739 33384 33898 836 7	USB	(AB/ES)	
					00000			
S06s	5744	10-3	0900	Fri	624 501 7 33136 36133 47101 33046 40432 33224 95986 501 7	USB	(AB/HFD)	
					00000			
S06s	6524	10-3	0910	Fri	624 501 7 33136 36133 47101 33046 40432 33224 95986 501 7	USB	(AB/HFD)	
					00000			
S06s	12140	10-3	0930	Fri	516 294 7 31900 38466 36534 32840 48436 81480 30762 294 7	USB	(AB-I/ES)	
					00000			

S06s	13515	10-3	0940	Fri	516 294 7 31900 38466 36534 32840 48436 81480 30762 294 7 00000	USB	(AB-I)
S06s	9220	13-3	0830	Mon	371 950 6 40909 39394 35083 42571 32785 37331 950 6 00000	USB	(AB)
S06s	8270	13-3	0840	Mon	371 950 6 40909 39394 35083 42571 32785 37331 950 6 00000	USB	(AB)
S06s	14580	13-3	0900	Mon	872 450 6 41322 86067 25487 44036 36806 37188 450 6 00000	USB	(AB)
S06s	13165	13-3	0910	Mon	872 450 6 41322 86067 25487 44036 36806 37188 450 6 00000	USB	(AB)
S06s	9145	13-3	1200	Mon	831 250 6 35401 34072 83030 32030 34005 36870 250 6 00000	USB	(AB/MPJ)
S06s	11460	13-3	1210	Mon	831 250 6 35401 34072 83030 32030 34005 36870 250 6 00000	USB	(AB/MPJ)
S06s	5760	14-3	0700	Tue	374 285 6 32391 38632 35044 41354 31663 41731 285 6 00000	USB	(AB)
S06s	6930	14-3	0715	Tue	374 285 6 32391 38632 35044 41354 31663 41731 285 6 00000	USB	(AB/ES)
S06s	7425	14-3	0730	Tue	427 983 5 36184 36194 37650 43773 46793 983 5 00000	USB	(AB/SP1/ES)
S06s	11560	14-3	0740	Tue	427 983 5 36184 36194 37650 43773 46793 983 5 00000	USB	(AB)
S06s	11635	14-3	0800	Tue	352 481 6 35342 32537 42983 35751 35375 57176 481 6 00000	USB	(AB-I/ES)
S06s	10420	14-3	0810	Tue	352 481 6 35342 32537 42983 35751 35375 57176 481 6 00000	USB	(AB-I)
S06s	6410	14-3	1000	Tue	893 541 6 43337 89152 46544 36478 31315 36184 541 6 00000	USB	(AB)
S06s	7340	14-3	1010	Tue	893 541 6 43337 89152 46544 36478 31315 36184 541 6 00000	USB	(AB)
S06s	6190	14-3	1100	Tue	754 983 6 32679 93099 36570 39628 40224 41899 983 6 00000	USB	(AB/ES)
S06s	7230	14-3	1110	Tue	754 983 6 32679 93099 36570 39628 40224 41899 983 6 00000	USB	(AB)
S06s	6464	14-3	1500	Tue	537 982 6 83404 43347 36198 30083 84583 30085 982 6 00000	USB	(AB)
S06s	7242	14-3	1510	Tue	537 982 6 83404 43347 36198 30083 84583 30085 982 6 00000	USB	(AB)
S06s	8630	15-3	0820	Wed	471 230 5 37184 36129 33983 32211 85246 230 5 00000	USB	(AB/ES)
S06s	9082	15-3	0830	Wed	464 231 5 38352 37367 36143 40529 30535 231 5 00000	USB	(AB/ES)
S06s	9255	15-3	0830	Wed	471 230 5 37184 36129 33983 32211 85246 230 5 00000	USB	(AB)
S06s	11530	15-3	0830	Wed	745 230 6 36880 33582 44060 33600 47061 46308 230 6 00000	USB	(AB/ES)
S06s	9952	15-3	0840	Wed	464 231 5 38352 37367 36143 40529 30535 231 5 00000	USB	(AB)
S06s	12140	15-3	0840	Wed	745 230 6 36880 33582 44060 33600 47061 46308 230 6 00000	USB	(AB)
S06s	13365	15-3	1000	Wed	729 803 5 37363 31429 33642 36687 32805 803 5 00000	USB	(AB/MPJ)
S06s	14505	15-3	1010	Wed	729 803 5 37363 31429 33642 36687 32805 803 5 00000	USB	(AB/MPJ/ES)
S06s	9081	16-3	0930	Thu	314 580 6 46062 68672 97478 39685 30485 96632 580 6 00000	USB	(AB)
S06s	10514	16-3	0940	Thu	314 580 6 46062 68672 97478 39685 30485 96632 580 6 00000	USB	(AB)
S06s	12415	16-3	1200	Thu	425 861 7 33796 13577 74526 46647 79302 53516 25616 861 7 00000	USB	(AB/ES)
S06s	14212	16-3	1210	Thu	425 861 7 33796 13577 74526 46647 79302 53516 25616 861 7 00000	USB	(AB)
S06s	5744	17-3	0900	Fri	624 915 7 99141 31869 96065 61652 61535 20397 74554 915 7 00000	USB	(AB)
S06s	6524	17-3	0910	Fri	624 915 7 99141 31869 96065 61652 61535 20397 74554 915 7 00000	USB	(AB)
S06s	12140	17-3	0930	Fri	516 273 8 10996 38892 06674 12532 75901 74405 73547 61732 273 8 00000	USB	(AB/ES)
S06s	13515	17-3	0940	Fri	516 273 8 10996 38892 06674 12532 75901 74405 73547 61732 273 8 00000	USB	(AB)
S06s	9220	20-3	0830	Mon	371 290 5 90406 36113 31107 37806 37137 290 5 00000	USB	(AB)
S06s	8270	20-3	0840	Mon	371 290 5 90406 36113 31107 37806 37137 290 5 00000	USB	(AB/SG)
S06s	14580	20-3	0900	Mon	872 930 5 32862 46732 38068 42747 34680 930 5 00000	USB	(AB)
S06s	13165	20-3	0910	Mon	872 930 5 32862 46732 38068 42747 34680 930 5 00000	USB	(AB)
S06s	9145	20-3	1200	Mon	831 925 6 34490 40456 88731 87386 31101 37931 925 6 00000	USB	(AB/MPJ)
S06s	11460	20-3	1210	Mon	831 925 6 34490 40456 88731 87386 31101 37931 925 6 00000	USB	(AB)
S06s	15855	21-3	0600	Tue	438 520 6 44365 43025 39283 33578 47568 39971 520 6 00000	USB	(AB-S)
S06s	16485	21-3	0610	Tue	438 520 6 44365 43025 39283 33578 47568 39971 520 6 00000	USB	(AB-S/ES)
S06s	5760	21-3	0700	Tue	374 285 6 32391 38632 35044 41357 31663 41731 285 6 00000	USB	(AB/ES)
S06s	6930	21-3	0715	Tue	374 285 6 32391 38632 35044 41357 31663 41731 285 6 00000	USB	(AB)
S06s	7425	21-3	0730	Tue	427 981 5 07931 98755 84636 45752 64655 981 5 0000	USB	(AB/ES)
S06s	11560	21-3	0740	Tue	427 981 5 07931 98755 84636 45752 64655 981 5 0000	USB	(AB)
S06s	11635	21-3	0800	Tue	352 801 6 58202 44206 29464 25473 02883 33445 801 6 00000	USB	(AB/ES)
S06s	10420	21-3	0810	Tue	352 801 6 58202 44206 29464 25473 02883 33445 801 6 00000	USB	(AB)
S06s	6410	21-3	1000	Tue	893 451 6 69425 38167 05424 76458 59421 21677 451 6 00000	USB	(AB)
S06s	7340	21-3	1010	Tue	893 451 6 69425 38167 05424 76458 59421 21677 451 6 00000	USB	(AB/ES)
S06s	6190	21-3	1100	Tue	754 290 6 15542 26059 49385 12444 38625 89531 280 6 00000	USB	(AB-POL)
S06s	7230	21-3	1110	Tue	754 290 6 15542 26059 49385 12444 38625 89531 280 6 00000	USB	(AB-POL/ES)
S06s	6464	21-3	1500	Tue	537 821 6 98058 55693 07628 61154 97511 48642 821 6 00000	USB	(AB-I)
S06s	7242	21-3	1510	Tue	537 821 6 98058 55693 07628 61154 97511 48642 821 6 00000	USB	(AB)
S06s	8630	22-3	0820	Wed	471 230 5 37184 36129 33983 32211 85246 230 5 00000	USB	(AB)
S06s	9082	22-3	0830	Wed	464 231 5 38352 37367 36143 40529 30535 231 5 00000	USB	(AB)
S06s	9255	22-3	0830	Wed	471 230 5 37184 36129 33983 32211 85246 230 5 00000	USB	(AB)
S06s	11530	22-3	0830	Wed	745 230 6 36880 33582 44060 33600 47061 46308 230 6 00000	USB	(AB)
S06s	9952	22-3	0840	Wed	464 231 5 38352 37367 36143 40529 30535 231 5 00000	USB	(AB)
S06s	12140	22-3	0840	Wed	745 230 6 36880 33582 44060 33600 47061 46308 230 6 00000	USB	(AB)
S06s	13365	22-3	1000	Wed	729 803 5 37363 31429 33642 36687 32805 803 5 00000	USB	(AB)
S06s	14505	22-3	1010	Wed	729 803 5 37363 31429 33642 36687 32805 803 5 00000	USB	(AB/ES)
S06s	6524	23-3	0910	Thu	624 915 7 99141 31869 96065 61652 61535 20397 74554 915 7 00000	USB	(AB)
S06s	9081	23-3	0930	Thu	314 580 6 46062 68672 97478 39685 30485 96632 580 6 00000	USB	(AB/ES)
S06s	10514	23-3	0940	Thu	314 580 6 46062 68672 97478 39685 30485 96632 580 6 00000	USB	(AB)
S06s	12415	23-3	1200	Thu	425 861 7 33796 13577 74526 46647 79302 53516 25616 861 7 00000	USB	(AB/MPJ)

S06s	14212	23-3	1210	Thu	425 861 7 33796 13577 74526 46647 79302 53516 25616 861 7 00000	USB	(AB/MPJ/ES)
S06s	5744	24-3	0900	Fri	624 915 7 99141 31869 96065 61652 61535 20397 74554 915 7 00000	USB	(AB)
S06s	12140	24-3	0930	Fri	516 273 8 10996 38892 06674 12532 75901 74405 73547 61732 273 8 00000	USB	(AB)
S06s	13515	24-3	0940	Fri	516 273 8 10996 38892 06674 12532 75901 74405 73547 61732 273 8 00000	USB	(AB)
S06s	9220	27-3	0830	Mon	371 290 5 90406 36113 31107 37806 37137 290 5 00000	USB	(AB)
S06s	8270	27-3	0840	Mon	371 290 5 90406 36113 31107 37806 37137 290 5 00000	USB	(AB)
S06s	14580	27-3	0900	Mon	872 930 5 32862 46732 38068 42747 34680 930 5 00000	USB	(AB)
S06s	13165	27-3	0910	Mon	872 930 5 32862 46732 38068 42747 34680 930 5 00000	USB	(AB)
S06s	9145	27-3	1200	Mon	831 925 6 34490 40456 88731 87386 31101 37931 925 6 00000	USB	(AB)
S06s	11460	27-3	1210	Mon	831 925 6 34490 40456 88731 87386 31101 37931 925 6 00000	USB	(AB/MPJ)
S06s	15855	28-3	0600	Tue	438 520 6 44365 43025 39283 33578 47568 39971 520 6 00000	USB	(AB-AUT)
S06s	16485	28-3	0610	Tue	438 520 6 44365 43025 39283 33578 47568 39971 520 6 00000	USB	(AB-AUT/ES)
S06s	5760	28-3	0700	Tue	374 374 374 00000	USB	(AB)
S06s	6930	28-3	0715	Tue	374 374 374 00000	USB	(AB)
S06s	7425	28-3	0730	Tue	427 981 5 07931 98755 84636 45752 64655 981 5 0000	USB	(AB)
S06s	11560	28-3	0740	Tue	427 981 5 07931 98755 84636 45752 64655 981 5 0000	USB	(AB)
S06s	11635	28-3	0800	Tue	352 801 6 58202 44206 29464 25473 02883 33445 801 6 00000	USB	(AB)
S06s	10420	28-3	0810	Tue	352 801 6 58202 44206 29464 25473 02883 33445 801 6 00000	USB	(AB)
S06s	6410	28-3	1000	Tue	893 451 6 69425 38167 05424 76458 59421 21677 451 6 00000	USB	(AB)
S06s	7340	28-3	1010	Tue	893 451 6 69425 38167 05424 76458 59421 21677 451 6 00000	USB	(AB/ES)
S06s	6190	28-3	1100	Tue	754 290 6 15542 26059 49385 12444 38625 89531 280 6 00000	USB	(AB-POL/ES)
S06s	7230	28-3	1110	Tue	754 290 6 15542 26059 49385 12444 38625 89531 280 6 00000	USB	(AB-POL)
S06s	6464	28-3	1500	Tue	537 821 6 98058 55693 07628 61154 97511 48642 821 6 00000	USB	(AB)
S06s	7242	28-3	1510	Tue	537 821 6 98058 55693 07628 61154 97511 48642 821 6 00000	USB	(AB/MPJ)
S06s	8630	29-3	0820	Wed	471 471 471 00000	USB	(AB)
S06s	9082	29-3	0830	Wed	464 464 464 00000	USB	(AB)
S06s	9255	29-3	0830	Wed	471 471 471 00000	USB	(AB)
S06s	11530	29-3	0830	Wed	745 745 745 00000	USB	(AB)
S06s	9952	29-3	0840	Wed	464 464 464 00000	USB	(AB)
S06s	12140	29-3	0840	Wed	745 745 745 00000	USB	(AB)
S06s	13365	29-3	1000	Wed	729 729 729 00000	USB	(AB)
S06s	14505	29-3	1010	Wed	729 729 729 00000	USB	(AB)
S06s	12415	30-3	1200	Thu	425 425 425 00000	USB	(AB)
S06s	14212	30-3	1210	Thu	425 425 425 00000	USB	(AB)
S06s	5744	31-3	0900	Fri	624 624 624 00000	USB	(AB)
S06s	6524	31-3	0910	Fri	624 624 624 00000	USB	(AB)
S06s	12140	31-3	0930	Fri	516 516 516 00000	USB	(AB)
S06s	13515	31-3	0940	Fri	516 516 516 00000	USB	(AB)
S07	9060	7-3	0900	Tue	687 1 5436 21 00098 97269 66394 ... 84971 10284 07385 000 000	USB	(ES/PW3/Dani x/Arg)
S11a	10800	1-3	1540	Wed	569/32 Vnimanije 52031 50405 11400 ... 99671 26513 73106 Vnimanije, rpt msg, konets	USB	(AB/MPJ/HFD)
S11a	4016	1-3	1955	Wed	372/00	USB	(AB/MPJ/HFD)
S11a	16112	2-3	1015	Thu	476/00	USB	(HFD)
S11a	5358	3-3	0455	Fri	325/00	USB	(ES-UKR/HFD)
S11a	7317	3-3	0915	Fri	485/00	USB	(AB/HFD)
S11a	9960	3-3	1020	Fri	427/00	USB	(AB/HFD)
S11a	4016	3-3	1955	Fri	372/00	USB	(AB/MPJ)
S11a	18405	6-3	0715	Mon	381/00	USB	(HFD)
S11a	16112	6-3	1015	Mon	478/36 Vnimanije 96014 95164 16959 ... 09033 00996 48479 Vnimanije, rpt msg, konets	USB	(AB)
S11a	5358	7-3	0455	Tue	326/00	USB	(AB/ES)
S11a	7317	7-3	0915	Tue	481/00	USB	(AB/ES)
S11a	9960	7-3	1020	Tue	425/33 Vnimanije 38590 91993 78433 ... 95513 24037 33915 Vnimanije, rpt msg, konets	USB	(AB/ES)
S11a	10800	8-3	1540	Wed	561/00	USB	(AB/MPJ)
S11a	4016	8-3	1955	Wed	370/00	USB	(AB)
S11a	16112	9-3	1015	Thu	478/36 Vnimanije 96014 95164 16959 ... 09033 00996 48479 Vnimanije, rpt msg, konets	USB	(AB)
S11a	5358	10-3	0455	Fri	327/00	USB	(AB)
S11a	7317	10-3	0915	Fri	484/00	USB	(AB)
S11a	9960	10-3	1020	Fri	425/33 Vnimanije 38590 91993 78433 ... 95513 24037 33915 Vnimanije, rpt msg, konets	USB	(AB/ES)
S11a	4016	10-3	1955	Fri	372/00	USB	(AB/MPJ)
S11a	10800	11-3	1540	Sat	564/00	USB	(MPJ)
S11a	16112	13-3	1015	Mon	479/00	USB	(AB)
S11a	5358	14-3	0455	Tue	322/00	USB	(AB/ES)
S11a	7317	14-3	0915	Tue	485/39 Vnimanije 30904 32658 59964 ... 47242 74932 47031 Vnimanije, rpt msg, konets	USB	(AB/ES)
S11a	9960	14-3	1020	Tue	427/00	USB	(AB)
S11a	10800	15-3	1540	Wed	569/00	USB	(AB/MPJ)
S11a	4016	15-3	1955	Wed	378/00	USB	(AB/MPJ)

S11a	5358	17-3	0455	Fri	327/00	USB	(AB/ES)
S11a	7317	17-3	0915	Fri	485/39 Vnmaniye 30904 32658 59964 ... 47242 74932 47031 Vnmaniye, rpt msg, konets	USB	(AB)
S11a	9960	17-3	1020	Fri	422/00	USB	(AB)
S11a	4016	17-3	1955	Fri	376/00	USB	(AB/MPJ)
S11a	18405	20-3	0715	Mon	381/00	USB	(AB)
S11a	16112	20-3	1015	Mon	472/00	USB	(AB)
S11a	5358	21-3	0455	Tue	320/00	USB	(AB/ES)
S11a	7317	21-3	0915	Tue	480/00	USB	(AB/SP1)
S11a	9960	21-3	1020	Tue	426/00	USB	(AB)
S11a	10800	22-3	1540	Wed	565/00	USB	(AB/MPJ)
S11a	4016	22-3	1955	Wed	370/00	USB	(AB/MPJ)
S11a	5358	24-3	0455	Fri	326/00	USB	(AB/ES)
S11a	7317	24-3	0915	Fri	482/00	USB	(AB)
S11a	9960	24-3	1020	Fri	422/00	USB	(AB)
S11a	4016	24-3	1955	Fri	379/00	USB	(AB/MPJ)
S11a	18405	27-3	0715	Mon	389/31 Vnmaniye 94151 04281 16468 ... 09339 05834 51337 Vnmaniye, rpt msg, konets	USB	(AB)
S11a	16112	27-3	1015	Mon	471/00	USB	(AB)
S11a	5358	28-3	0455	Tue	320/36 Vnmaniye 39156 96780 87995 ... 33604 02218 49726 Vnmaniye, rpt msg, konets	USB	(AB/ES)
S11a	7317	28-3	0915	Tue	485/00	USB	(AB)
S11a	9960	28-3	1020	Tue	429/00	USB	(AB/ES)
S11a	18405	29-3	0715	Wed	389/31 Vnmaniye 94151 04281 16468 ... 09339 05834 51337 Vnmaniye, rpt msg, konets	USB	(AB)
S11a	10800	29-3	1540	Wed	565/00	USB	(AB/MPJ)
S11a	4016	29-3	1955	Wed	378/30 Vnmaniye 39071 67204 70795 ... 14261 00432 53334 Vnmaniye, rpt msg, konets	USB	(AB)
S11a	5358	31-3	0455	Fri	320/36 Vnmaniye 39156 96780 87995 ... 33604 02218 49726 Vnmaniye, rpt msg, konets	USB	(AB)
S11a	7317	31-3	0915	Fri	486/00	USB	(AB)
S11a	9960	31-3	1020	Fri	425/00	USB	(AB/MPJ)
S11a	4016	31-3	1955	Fri	378/30 Vnmaniye 39071 67204 70795 ... 14261 00432 53334 Vnmaniye, rpt msg, konets	USB	(AB)
S13	4945	6-3	1749	Mon	Ru OM counting live 1-10	USB	(HFD)
S28	4625	1-3	1302	Wed	ZhUOZ 94764 VYeSOSH PON 43042131	USB	(Priyom)
S28	4625	2-3	0747	Thu	ZhUOZ 82878 BLYeFOMYeNT 91661899	USB	(Priyom)
S28	4625	2-3	0800	Thu	ZhUOZ 04177 IZVYeSTIYe 05015492	USB	(Priyom)
S28	4625	2-3	1228	Thu	ZhUOZ 96414 KUMOSHIT 69187832	USB	(Priyom)
S28	4625	2-3	1411	Thu	ZhUOZ 47142 GRUZOSH U 60414990	USB	(Priyom)
S28	4625	8-3	1305	Wed	Buzzer channel marker	USB	(AB-RUS)
S28	4625	9-3	0801	Thu	ZhUOZ 13054 GRADOTAJM 33541182	USB	(Priyom)
S28	4625	9-3	0807	Thu	ZhUOZ 64482 GLAZORUR 05277796 BOBKOVYJ 89451518	USB	(Priyom)
S28	4625	9-3	0953	Thu	ZhUOZ 76840 KARAKOVYJ 06788029	USB	(Priyom)
S28	4625	9-3	1310	Thu	ZhUOZ 28806 KONOMAJYa 09716215	USB	(Priyom)
S28	4625	9-3	1413	Thu	ZhUOZ 09938 VOLGAR' 42067375	USB	(Priyom)
S28	4625	9-3	1413	Thu	ZhUOZ 69929 VYeRBOVOChNYJ 76279319	USB	(Priyom)
S28	4625	15-3	1958	Wed	Buzzer channel marker	USB	(AB)
S28	4625	16-3	0724	Thu	ZhUOZ 06368 BONNOKVIT 11415996. Strange noise over the transmission	USB	(Priyom)
S28	4625	16-3	0755	Thu	ZhUOZ 65955 VHOZhDYeN'Ye 29475798	USB	(Priyom)
S28	4625	16-3	0836	Thu	ZhUOZ 93167 IRTYShSKIJ 80167836. Error in reading	USB	(Priyom)
S28	4625	16-3	1001	Thu	ZhUOZ 10603 DISLOKACIYa 12374010. Female voice on background saying: Operative duty officer...	USB	(Priyom)
S28	4625	16-3	1102	Thu	ZhUOZ 14801 KOBOKYuRI 23370673. Female voice on background answering the phone: Operative duty officer...	USB	(Priyom)
S28	4625	16-3	1208	Thu	ZhUOZ 09311 YeL'NICHYeK 73670559	USB	(Priyom)
S28	4625	16-3	1226	Thu	ZhUOZ 63096 ZYeMLYeVYeD 41347310	USB	(Priyom)
S28	4625	16-3	1247	Thu	ZhUOZ 75706 INTRIGANKA 62488614 VYaZNIKOV 32528345	USB	(Priyom)
S28	4625	16-3	1327	Thu	ZhUOZ 34674 KAUSTIK 33576329	USB	(Priyom)
S28	4625	16-3	1357	Thu	ZhUOZ 47365 IROFON 86145175	USB	(Priyom)
S28	4625	17-3	1529	Fri	ZhUOZ ZAUMNOST' 5430 At the same time also on 5021//5096 kHz in CW	USB	(Priyom)
S28	4625	23-3	0824	Thu	ZhUOZ 31069 AZhUROLOS' 58063821	USB	(Priyom)
S28	4625	23-3	0826	Thu	ZhUOZ 71530 YeLYeVYJ 56657157 IZNOS 46486663	USB	(Priyom)
S28	4625	23-3	1116	Thu	ZhUOZ 46331 KAINOGON 73484797 ANGELOChYeK 01301903 At the same time also on 5096 kHz in CW	USB	(Priyom)
S28	4625	23-3	1140	Thu	ZhUOZ 99382 ZOBOPOLK 14960354 At the same time also on 5096 kHz in CW	USB	(Priyom)
S28	4625	23-3	1248	Thu	ZhUOZ 99841 DINAS 72871361 At the same time also on 5096 kHz in CW	USB	(Priyom)
S28	4625	23-3	1305	Thu	ZhUOZ 39680 ZNAYuShchIJ 72462959 At the same time also on 5096 kHz in CW	USB	(Priyom)
S28	4625	23-3	1853	Thu	Buzzer channel marker	USB	(AB)
S30	5448	1-3	0459	Wed	78MV DEAY JH'J 12CI 79AJ Shcht30 CIHS Z7PM S7ZhG Z'1B	USB	(Priyom)
S30	5448	2-3	0504	Thu	VTH3 AGDT 'U1B OSOG BO6C F56Shch 9GSA ZhBZU 4RVZ 3VS'	USB	(Priyom)



S30	5448	2-3	0745	Thu	8S1Shch 57748 MYaChIK 30279288 Time mark after the message	USB	(Priyom)
S30	5448	2-3	0753	Thu	8S1Shch 43480 ZUYeKOPLYuShch 44772512 Error in the message. Time mark after the message	USB	(Priyom)
S30	5448	2-3	0821	Thu	8S1Shch 49852 KORMORAJ 98769414	USB	(Priyom)
S30	3756	2-3	1619	Thu	8S1Shch MATCHOGROM 2521 Time mark after the message	USB	(Priyom)
S30	3756	2-3	1936	Thu	HCLF 61HZh ZBIL L7O5 V'Z' NLCE LI27 V2MZ SB7Z 'O6P	USB	(Priyom)
S30	3756	3-3	1803	Fri	TUZR 5J7Shch DMC3 C2ZA INNC ShchGJP TZLM FY5E F61N 37CN	USB	(Priyom)
S30	6922	6-3	1300	Mon	Pip channel marker	USB	(AnUSA)
S30	5448	6-3	1338	Mon	Pip channel marker	USB	(AB-RUS)
S30	5448	8-3	1305	Wed	Pip channel marker	USB	(AB-RUS)
S30	3756	15-3	1957	Wed	Pip channel marker	USB	(AB)
S30	5448	16-3	1357	Thu	8S1Shch 46059 OBMYeRShchIK 61927664. Time mark after the message	USB	(Priyom)
S30	3756	23-3	1854	Thu	Pip channel marker	AM	(AB)
S30	3756	25-3	0525	Sat	Y8VM 6I2Zh 8CSchJ 27Shch' N1DU 53OB 78MV DEAY JH'J 12CI	USB	(Priyom)
S30	5448	25-3	1514	Sat	Pip channel marker	USB	(AB-NZL)
S30	3756	25-3	1607	Sat	79AJ ShchT3O CIHS Z7PM S7ZhG Z'1B CI9V ZhSK4 HZ5T 5FSShch	USB	(Priyom)
S30	3756	28-3	1945	Tue	ZBIL L7O5 V'Z' NLCE LI27 V2MZ SB7Z 'O6P Y8VM 6I2Zh	USB	(Priyom)
S32	5473	2-3	1414	Thu	AL'FA-45 92502 VYeTROTRUS 59043905	USB	(Priyom)
S32	3828	2-3	1653	Thu	LANDYSh-74 KURGAN-40 NYeVKA-26 ZASLONKA-27 KARTA-11 OTPOR-89 PYeSOChNYJ-21 ShULER-60 STUPA-32 RYeZINA-38 BURKA-37 (S30 in the background)	USB	(Priyom)
S32	5474	8-3	1305	Wed	Squeaky Wheel channel marker	USB	(AB-RUS)
S32	3828	15-3	1954	Wed	Squeaky Wheel channel marker	USB	(AB)
S32	3828	20-3	0353	Mon	AL'FA-45 28454 MALOKOVSh 41923934	USB	(Priyom)
S32	5473	20-3	1522	Mon	AL'FA-45 87438 ZVONOKUM 49362605	USB	(Priyom)
S32	3828	20-3	1707	Mon	OTPOR-89 PYeSOChNYJ-21 ShULER-60 STUPA-32 RYeZINA-38 BURKA-37	USB	(Priyom)
S32	3828	23-3	1855	Thu	Squeaky Wheel channel marker	USB	(AB)
S32	3828	28-3	0356	Tue	AL'FA-45 08454 MALOKOVSh 41923934 with corrected key group	USB	(Priyom)
S32	3828	28-3	0359	Tue	AL'FA-45 61566 IZOTYeRMA 28255100	USB	(Priyom)
S4020	4020	1-3	0318	Wed	Channel marker	USB	(ES)
S4020	4020	3-3	1956	Fri	Air Horn channel marker	USB	(AB)
S4020	4020	8-3	1257	Wed	Air Horn channel marker	USB	(AB-RUS)
S4020	4020	15-3	0319	Wed	Air Horn channel marker	USB	(ES)
S4020	4020	15-3	1235	Wed	Air Horn channel marker	USB	(ES)
S4020	4020	15-3	1953	Wed	Air Horn channel marker	USB	(AB)
S4020	4020	16-3	0505	Thu	Air Horn channel marker	USB	(ES)
S4020	4020	17-3	0551	Fri	Air Horn channel marker	USB	(ES)
S4020	4020	18-3	1649	Sat	Test count	USB	(Priyom)
S4020	4020	23-3	1851	Thu	Air Horn channel marker	USB	(AB)
S4020	8040	23-3	1855	Thu	Air Horn channel marker, started on 1755z	USB	(AB)
S4020	4020	28-3	1144	Tue	Air Horn channel marker	USB	(ES)
S4110	4110	16-3	0430	Thu	PRISMA-60 clg STRUNA-45	USB	(Priyom)
S4110	4110	16-3	1256	Thu	ZALIV-52 ZALIV-52 96407 BILYeT 67724116. Counts before the message	USB	(Priyom)
S4110	4110	16-3	1326	Thu	ZALIV-52 83528 TYePLOHOD 56355516. Counts before the message	USB	(Priyom)
S4110	4110	16-3	1352	Thu	ZALIV-52 93434 ANOMALIYa 29163736. Counts before the message	USB	(Priyom)
S5292	5292	8-3	1305	Wed	Channel marker D	USB	(AB-RUS)
S5292	5292	15-3	1954	Wed	Channel marker D	USB	(AB)
S5292	5292	23-3	1856	Thu	Channel marker D	USB	(AB)
S6930	4224	17-3	1555	Fri	KATOK-65 12302 STArchYeSKIJ 67316548	USB	(Priyom)
S6930	4224	23-3	0811	Thu	KATOK-65 97209 BYeNZAL'DYeGID 64652441. Signal shifted 500 kHz up	USB	(Priyom)
S6930	4224	25-3	0815	Sat	KATOK-65 63242 PALASH 18881129. Count before the message	USB	(Priyom)
UM03	8410	8-3	0937	Wed	X2M i.p. 03 03 CK 100 CK 100 TIME 1636 TIME 1636 DATE 0803 DATE 0803 = (7920//8250//8410 kHz)	CW	(JPL-NZL)
UM03	7920	10-3	0937	Fri	03 03 CK 100 CK 100 TIME 1637 TIME 1637 DATE 1003 DATE 1003 = (7920//8250//8410 kHz)	CW	(JPL-NZL)
UM03	8250	10-3	0937	Fri	03 03 CK 100 CK 100 TIME 1637 TIME 1637 DATE 1003 DATE 1003 = (7920//8250//8410 kHz)	CW	(JPL-NZL)
UM03	8410	10-3	0937	Fri	03 03 CK 100 CK 100 TIME 1637 TIME 1637 DATE 1003 DATE 1003 = (7920//8250//8410 kHz)	CW	(JPL-NZL)
UM03	7920	15-3	0929	Wed	CQ (x3) DE X2M (x2) VVV MSG ENG 01 01 CK 100 CK 100 TIME 1631 TIME 1631 DATE 1503 DATE 1503 = 546UN 6UNT7 4TA75 6573A ... (7920//8250//8410 kHz)	CW	(JPL-NZL)
UM03	8250	15-3	0929	Wed	CQ (x3) DE X2M (x2) VVV MSG ENG 01 01 CK 100 CK 100 TIME 1631 TIME 1631 DATE 1503 DATE 1503 = 546UN 6UNT7 4TA75 6573A ... (7920//8250//8410 kHz)	CW	(JPL-NZL)
UM03	8410	15-3	0929	Wed	CQ (x3) DE X2M (x2) VVV MSG ENG 01 01 CK 100 CK 100 TIME 1631 TIME 1631 DATE 1503 DATE 1503 = 546UN 6UNT7 4TA75 6573A ... (7920//8250//8410 kHz)	CW	(JPL-NZL)
UM03	7920	20-3	0912	Mon	X2M i.p. AR 15 15 CK 100 CK 100 TIME 1613 TIME 1613 DATE ..03 TIME 1803 = .N4T 3NT. U.... (7920//8250//8410 kHz)	CW	(JPL-NZL)

UM03	8250	20-3	0912	Mon	X2M i.p. AR 15 15 CK 100 CK 100 TIME 1613 TIME 1613 DATE ..03 TIME 1803 = .N4T 3NT. U.... (7920//8250//8410 kHz)	CW	(JPL-NZL)
UM03	8410	20-3	0912	Mon	X2M i.p. AR 15 15 CK 100 CK 100 TIME 1613 TIME 1613 DATE ..03 TIME 1803 = .N4T 3NT. U.... (7920//8250//8410 kHz)	CW	(JPL-NZL)
UM03	7920	28-3	0855	Tue	X2M i.p. AR 09 09 CK 100 CK 100 TIME 155. TIME 155. DATE 2803 DATE 2803 = 7.D.. 4D5T. ... (7920//8250//8410 kHz)	CW	(JPL-NZL)
UM03	8250	28-3	0855	Tue	X2M i.p. AR 09 09 CK 100 CK 100 TIME 155. TIME 155. DATE 2803 DATE 2803 = 7.D.. 4D5T. ... (7920//8250//8410 kHz)	CW	(JPL-NZL)
UM03	8410	28-3	0855	Tue	X2M i.p. AR 09 09 CK 100 CK 100 TIME 155. TIME 155. DATE 2803 DATE 2803 = 7.D.. 4D5T. ... (7920//8250//8410 kHz)	CW	(JPL-NZL)
UM03	8410	31-3	0918	Fri	X2M i.p. 17 17 CK 100 CK 100 TIME 1619 TIME 1619 DATE 3103 DATE 3103 = NTN35 3NT6U T6374 ... (//7920//8250//8410 kHz)	CW	(JPL-NZL)
UM10	6782	7-3	0615	Tue	10-mins net: 4DAG	CW	(F5JBR-J)
UM10	3192	8-3	1610	Wed	10-mins net: OBCD //3207 kHz	CW	(F5JBR-J)
UM10	3207	8-3	1610	Wed	10-mins net: OBCD //3192 kHz	CW	(F5JBR-J)
UM10	5880	9-3	0715	Thu	10-mins net: 4DAG //6782 kHz	CW	(F5JBR-J)
UM10	6782	9-3	0715	Thu	10-mins net: 4DAG //5880 kHz	CW	(F5JBR-J)
V07	18074	5-3	0100	Sun	883 1 353 61 05702 00952 ... 51979 53018 000 000	USB	(Dan)
V07	15874	5-3	0120	Sun	883 1 353 61 05702 00952 ... 51979 53018 000 000	USB	(Dan)
V07	14374	5-3	0140	Sun	883 1 353 61 05702 00952 ... 51979 53018 000 000	USB	(Dan)
V07	18074	12-3	0100	Sun	883 883 883 000	USB	(Dan)
V07	15874	12-3	0120	Sun	883 883 883 000	USB	(Dan)
V13	11430	1-3	0500	Wed	New Star Broadcasting Station	AM	(AB-J)
V13	11430	1-3	0600	Wed	New Star Broadcasting Station	AM	(AB-J)
V13	11430	6-3	0500	Mon	New Star Broadcasting Station	AM	(AB-J)
V13	11430	6-3	0600	Mon	New Star Broadcasting Station	AM	(AB-J)
V13	11430	7-3	0500	Tue	New Star Broadcasting Station	AM	(AB-J)
V13	11430	7-3	0600	Tue	New Star Broadcasting Station	AM	(AB-J)
V13	9276	10-3	1200	Fri	New Star Broadcasting Station	AM	(AB-J)
V13	9276	10-3	1300	Fri	New Star Broadcasting Station	AM	(AB-J)
V13	15250	13-3	0810	Mon	New Star Broadcasting Station	AM	(SP1-J)
V13	11430	16-3	0600	Thu	New Star Broadcasting Station	AM	(AB-J)
V13	9276	17-3	1200	Fri	New Star Broadcasting Station	AM	(AB-J)
V13	15250	20-3	0810	Mon	New Star Broadcasting Station i.p.	AM	(Nico-J)
V13	11430	22-3	0600	Wed	New Star Broadcasting Station	AM	(AB-J)
V24	4925	11-3	1431	Sat	Classical music followed by a message in Korean	AM	(RonC)
V24	4925	11-3	1435	Sat	Classical music followed by a message in Korean	AM	(RonC)
V26	8073	10-3	1130	Fri	Callup in Chinese. Male operator	USB	(JPL-HK)
V26	4243	16-3	1204	Thu	Messages in Chinese. Female operator //9054 kHz	USB	(JPL-NZL)
V26	4243	16-3	1204	Thu	Messages in Chinese. Female operator	USB	(JPL-NZL)
V26	9054	16-3	1204	Thu	Messages in Chinese. Female operator //4243 kHz	USB	(JPL-NZL)
V26	4243	17-3	1212	Fri	Messages in Chinese. Female operator //9054 kHz	USB	(JPL-NZL)
V26	9054	17-3	1212	Fri	Messages in Chinese. Female operator //4243 kHz	USB	(JPL-NZL)
V26	4243	19-3	0930	Sun	Message in Chinese. Female operator //9054 kHz	USB	(Nico-J)
V26	9054	19-3	0930	Sun	Message in Chinese. Female operator //4243 kHz	USB	(Nico-J/EW)
V26	4364	21-3	1132	Tue	Callup in Chinese. Male operator //8073 kHz	USB	(JPL-NZL)
V26	8073	21-3	1132	Tue	Callup in Chinese. Male operator //4364 kHz	USB	(JPL-NZL)
V26	4343	21-3	1210	Tue	Messages in Chinese. Female operator //9054 kHz	USB	(JPL-NZL)
V26	9054	21-3	1210	Tue	Messages in Chinese. Female operator //4243 kHz	USB	(JPL-NZL)
V26	4343	21-3	2359	Tue	Messages in Chinese. Female operator //9054 kHz	USB	(JPL-NZL)
V26	9054	21-3	2359	Tue	Messages in Chinese. Female operator //4243 kHz	USB	(JPL-NZL)
V26	4364	22-3	0001	Wed	Callup in Chinese. Male operator //8073 kHz	USB	(JPL-NZL)
V26	8073	22-3	0001	Wed	Callup in Chinese. Male operator //4364 kHz	USB	(JPL-NZL)
V26	4364	22-3	0029	Wed	Messages in Chinese. Male operator //8073 kHz	USB	(JPL-NZL)
V26	8073	22-3	0029	Wed	Messages in Chinese. Male operator //4364 kHz	USB	(JPL-NZL)
V26	4364	22-3	1130	Wed	Callup in Chinese. Male operator //8073 kHz	USB	(JPL-NZL)
V26	8073	22-3	1130	Wed	Callup in Chinese. Male operator //4364 kHz	USB	(JPL-NZL)
V26	4343	28-3	1158	Tue	Message sin Chinese. Female operator //9054 kHz	USB	(JPL-HK)
V26	9054	28-3	1158	Tue	Message sin Chinese. Female operator //4243 kHz	USB	(JPL-HK)
V26	4243	29-3	1212	Wed	Messages in Chinese. Female operator //9054 kHz	USB	(JPL-NZL)
V26	9054	29-3	1212	Wed	Messages in Chinese. Female operator //4243 kHz	USB	(JPL-NZL)
VC01	4186	9-3	1144	Thu	Chinese Robot	USB	(AB-HK)
VC01	4244	9-3	1144	Thu	Chinese Robot	LSB	(JPL)
VC01	4244	9-3	1158	Thu	Chinese Robot	LSB	(AB-HK)
VC01	4186	19-3	1705	Sun	Chinese Robot	USB	(Nico-J)
VC01	4186	31-3	1325	Fri	Chinese Robot	USB	(AB-NZL)
VC01	4244	31-3	1325	Fri	Chinese Robot	LSB	(AB-NZL)
X06	11525	1-3	0602	Wed	Mazielka. Sequence: 156234	MFSK	(ES)
X06	12320	1-3	1104	Wed	Mazielka	MFSK	(ES)
X06	16115	1-3	1106	Wed	Mazielka. Sequence: 215346	MFSK	(ES)
X06	10653	10-3	0934	Fri	Mazielka. Sequence: 356412	MFSK	(ES)
X06	12168	16-3	0632	Thu	Mazielka. Sequence: 213546	MFSK	(ES)
X06	12219	16-3	0833	Thu	Mazielka. Sequence: 162543	MFSK	(ES)
X06	12215	17-3	1002	Fri	Mazielka. Sequence: 361245	MFSK	(ES)
X06	14824	17-3	1025	Fri	Mazielka. Sequence: 625413	MFSK	(ES)
X06	20323	27-3	0517	Mon	Mazielka	MPSK	(EW)

X06b	11400	1-3	0811	Wed	Mazielka. Sequence: 6--1--	MFSK	(AB)
X06b	11400	1-3	0845	Wed	Mazielka. Sequence: 6--1-- ends 1033 UTC	MFSK	(AB)
X06b	11400	1-3	0930	Wed	Mazielka. Sequence: 6--1--	MFSK	(AAI)
X06b	11400	1-3	1003	Wed	Mazielka. Sequence: 6--1--	MFSK	(AAI)
X06b	16138	5-3	1450	Sun	Mazielka. Sequence: 1--6-- during the time that the XPA2 transmitter was on the air	MFSK	(AB)
X06b	14438	5-3	1515	Sun	Mazielka. Sequence: 1--6-- during the time that the XPA2 transmitter was on the air	MFSK	(AB)
X06b	13438	5-3	1535	Sun	Mazielka. Sequence: 1--6-- during the time that the XPA2 transmitter was on the air	MFSK	(AB)
X06b	18667	11-3	1323	Sat	Mazielka. Sequence: 1--6--	MFSK	(Dan)
X06b	16138	12-3	1407	Sun	Mazielka. Sequence: 1--6--	MFSK	(Dan)
X06b	14438	14-3	1404	Tue	Mazielka. Sequence: 1--6--	MFSK	(Dan)
X06b	16138	14-3	1409	Tue	Mazielka. Sequence: 1--6--	MFSK	(Dan)
X06b	14438	14-3	1417	Tue	Mazielka. Sequence: 1--6--	MFSK	(Dan)
X06b	16138	14-3	1439	Tue	Mazielka. Sequence: 1--6--	MFSK	(Dan)
X06b	9320	17-3	1101	Fri	Mazielka. Sequence: 1--6--	MFSK	(ES)
X06b	18667	18-3	1326	Sat	Mazielka. Sequence: 1--6--	MFSK	(Dan)
X06b	17419	18-3	1327	Sat	Mazielka. Sequence: 1--6--	MFSK	(Dan)
X06b	17419	18-3	1330	Sat	Mazielka. Sequence: 1--6--	MFSK	(Dan)
X06b	18667	18-3	1333	Sat	Mazielka. Sequence: 1--6--	MFSK	(Dan)
X06b	17419	18-3	1335	Sat	Mazielka. Sequence: 1--6--	MFSK	(Dan)
X06b	18667	18-3	1337	Sat	Mazielka. Sequence: 1--6--	MFSK	(Dan)
X06b	10112	25-3	0625	Sat	Mazielka. Sequence: 1--6-- before E07	MFSK	(AB)
X06b	10112	25-3	0629	Sat	Mazielka. Sequence: 1--6-- before E07	MFSK	(AB)
X06b	18667	25-3	1308	Sat	Mazielka. Sequence: 1--6-- before XPA2	MFSK	(Dan)
X06b	17419	25-3	1309	Sat	Mazielka. Sequence: 1--6-- before XPA2	MFSK	(Dan)
X06b	18667	25-3	1310	Sat	Mazielka. Sequence: 1--6-- before XPA2	MFSK	(Dan)
X06b	18667	25-3	1311	Sat	Mazielka. Sequence: 1--6-- before XPA2	MFSK	(Dan)
X06b	12120	29-3	0903	Wed	Mazielka. Sequence 1--6--	MFSK	(ES)
XPA	11409	1-3	0700	Wed	456 1 05245 00139 98593 ... 50172 70614 46640	MFSK-20/10Bd	(AB)
XPA	13509	1-3	0720	Wed	456 1 05245 00139 98593 ... 50172 70614 46640	MFSK-20/10Bd	(AB)
XPA	14609	1-3	0740	Wed	456 1 05245 00139 98593 ... 50172 70614 46640	MFSK-20/10Bd	(AB)
XPA	11409	4-3	0700	Sat	456 1 05245 00139 98593 ... 50172 70614 46640	MFSK-20/10Bd	(AB)
XPA	13509	4-3	0720	Sat	456 1 05245 00139 98593 ... 50172 70614 46640	MFSK-20/10Bd	(AB)
XPA	14609	4-3	0740	Sat	456 1 05245 00139 98593 ... 50172 70614 46640	MFSK-20/10Bd	(AB)
XPA	11409	8-3	0700	Wed	456 456 456 000 02165 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	13509	8-3	0720	Wed	456 456 456 000 02165 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	14609	8-3	0740	Wed	456 456 456 000 02165 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	11409	11-3	0700	Sat	456 456 456 000 03736 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	13509	11-3	0720	Sat	456 456 456 000 03736 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	14609	11-3	0740	Sat	456 456 456 000 03736 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	11409	15-3	0700	Wed	456 1 05789 00163 38573 ... 21521 13334 06772	MFSK-20/10Bd	(AB/HFD)
XPA	13509	15-3	0720	Wed	456 1 05789 00163 38573 ... 21521 13334 06772	MFSK-20/10Bd	(AB/HFD)
XPA	14609	15-3	0740	Wed	456 1 05789 00163 38573 ... 21521 13334 06772	MFSK-20/10Bd	(AB/HFD)
XPA	11409	18-3	0700	Sat	456 1 05789 00163 38573 ... 21521 13334 06772	MFSK-20/10Bd	(AB/CR2)
XPA	13509	18-3	0720	Sat	456 1 05789 00163 38573 ... 21521 13334 06772	MFSK-20/10Bd	(AB)
XPA	14609	18-3	0740	Sat	456 1 05789 00163 38573 ... 21521 13334 06772	MFSK-20/10Bd	(AB)
XPA	11409	22-3	0700	Wed	456 456 456 000 01914 00001 00000 10140	MFSK-20/10Bd	(AB/SP1)
XPA	13509	22-3	0720	Wed	456 456 456 000 01914 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	14609	22-3	0740	Wed	456 456 456 000 01914 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	11409	25-3	0700	Sat	456 456 456 000 02084 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	13509	25-3	0720	Sat	456 456 456 000 02084 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	14609	25-3	0740	Sat	456 456 456 000 02084 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	11409	29-3	0700	Wed	456 1 01618 00157 53317 ... 64681 25007 27252	MFSK-20/10Bd	(AB)
XPA	13509	29-3	0720	Wed	456 1 01618 00157 53317 ... 64681 25007 27252	MFSK-20/10Bd	(AB)
XPA	14609	29-3	0740	Wed	456 1 01618 00157 53317 ... 64681 25007 27252	MFSK-20/10Bd	(AB)
XPA2	15956	1-3	0800	Wed	08624 00149 94771 ... 84114 53433 06047	MFSK-16-20Bd	(AB)
XPA2	14956	1-3	0820	Wed	08624 00149 94771 ... 84114 53433 06047	MFSK-16-20Bd	(AB)
XPA2	13956	1-3	0840	Wed	08624 00149 94771 ... 84114 53433 06047	MFSK-16-20Bd	(AB)
XPA2	13431	3-3	0700	Fri	04210 00001 00000 10140	MFSK-16-20Bd	(AB)
XPA2	14631	3-3	0720	Fri	04210 00001 00000 10140	MFSK-16-20Bd	(AB)
XPA2	15931	3-3	0740	Fri	04210 00001 00000 10140	MFSK-16-20Bd	(AB-I)
XPA2	18667	3-3	1400	Fri	07106 00073 77993 ... 87331 76720 64434	MFSK-16-20Bd	(AB-RUS/HFD)
XPA2	17419	3-3	1420	Fri	07106 00073 77993 ... 87331 76720 64434	MFSK-16-20Bd	(AB-RUS/HFD)
XPA2	16212	3-3	1440	Fri	07106 00073 77993 ... 87331 76720 64434	MFSK-16-20Bd	(AB-RUS/MPJ/HFD)
XPA2	18667	4-3	1400	Sat	07106 00073 77993 ... 87331 76720 64434	MFSK-16-20Bd	(AB-RUS/HFD)
XPA2	17419	4-3	1420	Sat	07106 00073 77993 ... 87331 76720 64434	MFSK-16-20Bd	(AB-RUS/HFD)
XPA2	16212	4-3	1440	Sat	07106 00073 77993 ... 87331 76720 64434	MFSK-16-20Bd	(AB-RUS/HFD)
XPA2	16138	5-3	1500	Sun	02986 00001 00000 10140	MFSK-16-20Bd	(AB/MPJ)
XPA2	14438	5-3	1520	Sun	02986 00001 00000 10140	MFSK-16-20Bd	(AB/MPJ)
XPA2	13438	5-3	1540	Sun	02986 00001 00000 10140	MFSK-16-20Bd	(AB)
XPA2	15956	6-3	0800	Mon	05316 00001 00000 10140	MFSK-16-20Bd	(AB/HFD)
XPA2	14956	6-3	0820	Mon	05316 00001 00000 10140	MFSK-16-20Bd	(AB/HFD)



XPA2	13956	6-3	0840	Mon	05316 00001 00000 10140	MFSK-16-20Bd	(AB/HFD)
XPA2	13431	7-3	0700	Tue	00542 00079 98569 ... 94954 40329 24510	MFSK-16-20Bd	(AB)
XPA2	14631	7-3	0720	Tue	00542 00079 98569 ... 94954 40329 24510	MFSK-16-20Bd	(AB)
XPA2	15931	7-3	0740	Tue	00542 00079 98569 ... 94954 40329 24510	MFSK-16-20Bd	(AB)
XPA2	16138	7-3	1500	Tue	05221 00001 00000 10140	MFSK-16-20Bd	(AB/HFD)
XPA2	14438	7-3	1520	Tue	05221 00001 00000 10140	MFSK-16-20Bd	(AB/MPJ/HFD)
XPA2	13438	7-3	1540	Tue	05221 00001 00000 10140	MFSK-16-20Bd	(AB/MPJ/HFD)
XPA2	15956	8-3	0800	Wed	04767 00001 00000 10140	MFSK-16-20Bd	(AB)
XPA2	14956	8-3	0820	Wed	04767 00001 00000 10140	MFSK-16-20Bd	(AB)
XPA2	13956	8-3	0840	Wed	04767 00001 00000 10140	MFSK-16-20Bd	(AB)
XPA2	13431	10-3	0700	Fri	00542 00079 98569 ... 94954 40329 24510	MFSK-16-20Bd	(AB)
XPA2	14631	10-3	0720	Fri	00542 00079 98569 ... 94954 40329 24510	MFSK-16-20Bd	(AB)
XPA2	15931	10-3	0740	Fri	00542 00079 98569 ... 94954 40329 24510	MFSK-16-20Bd	(AB)
XPA2	18667	10-3	1400	Fri	03709 00001 00000 10140	MFSK-16-20Bd	(AB-RUS)
XPA2	17419	10-3	1420	Fri	03709 00001 00000 10140	MFSK-16-20Bd	(AB-RUS/MPJ)
XPA2	16212	10-3	1440	Fri	03709 00001 00000 10140	MFSK-16-20Bd	(AB-RUS/MPJ)
XPA2	18667	11-3	1400	Sat	05133 00001 00000 10140	MFSK-16-20Bd	(AB-RUS/RL/Dan/MPJ)
XPA2	17419	11-3	1420	Sat	05133 00001 00000 10140	MFSK-16-20Bd	(AB-RUS/Dan/MPJ)
XPA2	16212	11-3	1440	Sat	05133 00001 00000 10140	MFSK-16-20Bd	(AB-RUS/Dan/MPJ)
XPA2	16138	12-3	1500	Sun	02814 00081 87924 ... 00055 37971 47157	MFSK-16-20Bd	(AB/MPJ/Dan)
XPA2	14438	12-3	1520	Sun	02814 00081 87924 ... 00055 37971 47157	MFSK-16-20Bd	(AB/MPJ)
XPA2	13438	12-3	1540	Sun	02814 00081 87924 ... 00055 37971 47157	MFSK-16-20Bd	(AB/MPJ)
XPA2	15956	13-3	0800	Mon	07702 00131 77142 ... 30678 08712 75530	MFSK-16-20Bd	(AB)
XPA2	14956	13-3	0820	Mon	07702 00131 77142 ... 30678 08712 75530	MFSK-16-20Bd	(AB)
XPA2	13956	13-3	0840	Mon	07702 00131 77142 ... 30678 08712 75530	MFSK-16-20Bd	(AB)
XPA2	13431	14-3	0700	Tue	02016 00001 00000 10140	MFSK-16-20Bd	(AB-GRC)
XPA2	14631	14-3	0720	Tue	02016 00001 00000 10140	MFSK-16-20Bd	(AB-GRC)
XPA2	15931	14-3	0740	Tue	02016 00001 00000 10140	MFSK-16-20Bd	(AB-GRC)
XPA2	16138	14-3	1500	Tue	02814 00081 87924 ... 00055 37971 47157	MFSK-16-20Bd	(AB/Dan/MPJ)
XPA2	14438	14-3	1520	Tue	02814 00081 87924 ... 00055 37971 47157	MFSK-16-20Bd	(AB/Dan/MPJ)
XPA2	13438	14-3	1540	Tue	02814 00081 87924 ... 00055 37971 47157	MFSK-16-20Bd	(AB/MPJ)
XPA2	15956	15-3	0800	Wed	07702 00131 77142 ... 30678 08712 75530	MFSK-16-20Bd	(AB)
XPA2	14956	15-3	0820	Wed	07702 00131 77142 ... 30678 08712 75530	MFSK-16-20Bd	(AB)
XPA2	13956	15-3	0840	Wed	07702 00131 77142 ... 30678 08712 75530	MFSK-16-20Bd	(AB)
XPA2	13431	17-3	0700	Fri	03378 00001 00000 10140	MFSK-16-20Bd	(AB/HFD)
XPA2	14631	17-3	0720	Fri	03378 00001 00000 10140	MFSK-16-20Bd	(AB/HFD)
XPA2	15931	17-3	0740	Fri	03378 00001 00000 10140	MFSK-16-20Bd	(AB/HFD)
XPA2	18667	17-3	1400	Fri	00627 00085 13487 ... 56561 50555 04640	MFSK-16-20Bd	(AB-RUS/MPJ/Dan)
XPA2	17419	17-3	1420	Fri	00627 00085 13487 ... 56561 50555 04640	MFSK-16-20Bd	(AB-RUS/MPJ/Dan)
XPA2	16212	17-3	1440	Fri	00627 00085 13487 ... 56561 50555 04640	MFSK-16-20Bd	(AB/RL/SP1/MPJ/Dan)
XPA2	18667	18-3	1400	Sat	00627 00085 13487 ... 56561 50555 04640	MFSK-16-20Bd	(AB/RL)
XPA2	17419	18-3	1420	Sat	00627 00085 13487 ... 56561 50555 04640	MFSK-16-20Bd	(AB/SP1/RL)
XPA2	16212	18-3	1440	Sat	00627 00085 13487 ... 56561 50555 04640	MFSK-16-20Bd	(AB)
XPA2	16138	19-3	1500	Sun	04922 00001 00000 10140	MFSK-16-20Bd	(AB/Dan/RL/MDK2)
XPA2	14438	19-3	1520	Sun	04922 00001 00000 10140	MFSK-16-20Bd	(AB/Dan/MDK2)
XPA2	13438	19-3	1540	Sun	04922 00001 00000 10140	MFSK-16-20Bd	(AB/Dan/MDK2/CS)
XPA2	15956	20-3	0800	Mon	01361 00001 00000 10140	MFSK-16-20Bd	(AB)
XPA2	14956	20-3	0820	Mon	01361 00001 00000 10140	MFSK-16-20Bd	(AB)
XPA2	13956	20-3	0840	Mon	01361 00001 00000 10140	MFSK-16-20Bd	(AB)
XPA2	13431	21-3	0700	Tue	06462 00161 07084 ... 79491 64782 11373	MFSK-16-20Bd	(AB)
XPA2	14631	21-3	0720	Tue	06462 00161 07084 ... 79491 64782 11373	MFSK-16-20Bd	(AB)
XPA2	15931	21-3	0740	Tue	06462 00161 07084 ... 79491 64782 11373	MFSK-16-20Bd	(AB)
XPA2	16138	21-3	1500	Tue	05161 00001 00000 10140	MFSK-16-20Bd	(AB/MPJ)
XPA2	14438	21-3	1520	Tue	05161 00001 00000 10140	MFSK-16-20Bd	(AB/MPJ)
XPA2	13438	21-3	1540	Tue	05161 00001 00000 10140	MFSK-16-20Bd	(AB/MPJ)
XPA2	15956	22-3	0800	Wed	08099 00001 00000 10140	MFSK-16-20Bd	(AB)
XPA2	14956	22-3	0820	Wed	08099 00001 00000 10140	MFSK-16-20Bd	(AB)
XPA2	13956	22-3	0840	Wed	08099 00001 00000 10140	MFSK-16-20Bd	(AB)
XPA2	13431	24-3	0700	Fri	06462 00161 07084 ... 79491 64782 11373	MFSK-16-20Bd	(AB)
XPA2	14631	24-3	0720	Fri	06462 00161 07084 ... 79491 64782 11373	MFSK-16-20Bd	(AB)
XPA2	15931	24-3	0740	Fri	06462 00161 07084 ... 79491 64782 11373	MFSK-16-20Bd	(AB)
XPA2	18667	24-3	1400	Fri	05090 00001 00000 10140	MFSK-16-20Bd	(AB-RUS/RL)

XPA2	17419	24-3	1420	Fri	05090 00001 00000 10140	MFSK-16-20Bd	(AB-RUS/GHn/RL/MPJ)
XPA2	16212	24-3	1440	Fri	05090 00001 00000 10140	MFSK-16-20Bd	(AB-RUS/MPJ)
XPA2	18667	25-3	1400	Sat	09048 00001 00000 10140	MFSK-16-20Bd	(AB-RUS/Dan/MPJ)
XPA2	17419	25-3	1420	Sat	09048 00001 00000 10140	MFSK-16-20Bd	(AB-RUS/Dan/MPJ/RL)
XPA2	16212	25-3	1440	Sat	09048 00001 00000 10140	MFSK-16-20Bd	(AB-RUS/Dan/MPJ)
XPA2	16138	26-3	1500	Sun	05056 00095 01240 ... 64702 22290 60724	MFSK-16-20Bd	(AB/MPJ)
XPA2	14438	26-3	1520	Sun	05056 00095 01240 ... 64702 22290 60724	MFSK-16-20Bd	(AB/Dan/MPJ)
XPA2	13438	26-3	1540	Sun	05056 00095 01240 ... 64702 22290 60724	MFSK-16-20Bd	(AB/Dan/MPJ)
XPA2	15956	27-3	0800	Mon	07509 00105 62440 ... 70445 30454 23410	MFSK-16-20Bd	(AB)
XPA2	14956	27-3	0820	Mon	07509 00105 62440 ... 70445 30454 23410	MFSK-16-20Bd	(AB)
XPA2	13956	27-3	0840	Mon	07509 00105 62440 ... 70445 30454 23410	MFSK-16-20Bd	(AB)
XPA2	13431	28-3	0700	Tue	07599 00001 00000 10140	MFSK-16-20Bd	(AB)
XPA2	14631	28-3	0720	Tue	07599 00001 00000 10140	MFSK-16-20Bd	(AB)
XPA2	15931	28-3	0740	Tue	07599 00001 00000 10140	MFSK-16-20Bd	(AB)
XPA2	16138	28-3	1500	Tue	05056 00095 01240 ... 64702 22290 60724	MFSK-16-20Bd	(AB/MPJ)
XPA2	14438	28-3	1520	Tue	05056 00095 01240 ... 64702 22290 60724	MFSK-16-20Bd	(AB/MPJ)
XPA2	13438	28-3	1540	Tue	05056 00095 01240 ... 64702 22290 60724	MFSK-16-20Bd	(AB/MPJ)
XPA2	15956	29-3	0800	Wed	07509 00105 62440 ... 70445 30454 23410	MFSK-16-20Bd	(AB)
XPA2	14956	29-3	0820	Wed	07509 00105 62440 ... 70445 30454 23410	MFSK-16-20Bd	(AB)
XPA2	13956	29-3	0840	Wed	07509 00105 62440 ... 70445 30454 23410	MFSK-16-20Bd	(AB)
XPA2	13431	31-3	0700	Fri	01645 00001 00000 10140	MFSK-16-20Bd	(AB)
XPA2	14631	31-3	0720	Fri	01645 00001 00000 10140	MFSK-16-20Bd	(AB)
XPA2	15931	31-3	0740	Fri	01645 00001 00000 10140	MFSK-16-20Bd	(AB)
XPA2	18667	31-3	1400	Fri	04806 00001 00000 10140	MFSK-16-20Bd	(AB-RUS)
XPA2	17419	31-3	1420	Fri	04806 00001 00000 10140	MFSK-16-20Bd	(AB-RUS)
XPA2	16212	31-3	1440	Fri	04806 00001 00000 10140	MFSK-16-20Bd	(AB-RUS)
XSL	4153	19-3	2002	Sun	Japanese Navy a.k.a. Slotmachine	QPSK 1500Bd	(AB-J)
XSL	4231.5	19-3	2002	Sun	Japanese Navy a.k.a. Slotmachine	QPSK 1500Bd	(AB-J)
XSL	4291	19-3	2002	Sun	Japanese Navy a.k.a. Slotmachine	QPSK 1500Bd	(AB-J)
XSL	6250	19-3	2002	Sun	Japanese Navy a.k.a. Slotmachine	QPSK 1500Bd	(AB-J)
XSL	6417	19-3	2002	Sun	Japanese Navy a.k.a. Slotmachine	QPSK 1500Bd	(AB-J)
XSL	6445	19-3	2002	Sun	Japanese Navy a.k.a. Slotmachine	QPSK 1500Bd	(AB-J)
XSL	8313	19-3	2002	Sun	Japanese Navy a.k.a. Slotmachine	QPSK 1500Bd	(AB-J)
XSL	8508	19-3	2002	Sun	Japanese Navy a.k.a. Slotmachine	QPSK 1500Bd	(AB-J)
XSL	8703.5	19-3	2002	Sun	Japanese Navy a.k.a. Slotmachine	QPSK 1500Bd	(AB-J)
XSL	4153	26-3	1512	Sun	Japanese Navy a.k.a. Slotmachine	QPSK 1500Bd	(AB-NZL)
XSL	4231.5	26-3	1512	Sun	Japanese Navy a.k.a. Slotmachine	QPSK 1500Bd	(AB-NZL)
XSL	4291	26-3	1512	Sun	Japanese Navy a.k.a. Slotmachine	QPSK 1500Bd	(AB-NZL)
XSL	6250	26-3	1512	Sun	Japanese Navy a.k.a. Slotmachine	QPSK 1500Bd	(AB-NZL)
XSL	6417	26-3	1512	Sun	Japanese Navy a.k.a. Slotmachine	QPSK 1500Bd	(AB-NZL)
XSL	6445	26-3	1512	Sun	Japanese Navy a.k.a. Slotmachine	QPSK 1500Bd	(AB-NZL)
XSL	8313	26-3	1512	Sun	Japanese Navy a.k.a. Slotmachine	QPSK 1500Bd	(AB-NZL)
XSL	8508	26-3	1512	Sun	Japanese Navy a.k.a. Slotmachine	QPSK 1500Bd	(AB-NZL)
XSL	8703.5	26-3	1512	Sun	Japanese Navy a.k.a. Slotmachine	QPSK 1500Bd	(AB-NZL)
XSL	4153	31-3	1327	Fri	Japanese Navy a.k.a. Slotmachine	QPSK 1500Bd	(AB-NZL)
XSL	4231.5	31-3	1327	Fri	Japanese Navy a.k.a. Slotmachine	QPSK 1500Bd	(AB-NZL)
XSL	4291	31-3	1327	Fri	Japanese Navy a.k.a. Slotmachine	QPSK 1500Bd	(AB-NZL)
XSL	6250	31-3	1327	Fri	Japanese Navy a.k.a. Slotmachine	QPSK 1500Bd	(AB-NZL)
XSL	6417	31-3	1327	Fri	Japanese Navy a.k.a. Slotmachine	QPSK 1500Bd	(AB-NZL)
XSL	6445	31-3	1327	Fri	Japanese Navy a.k.a. Slotmachine	QPSK 1500Bd	(AB-NZL)
XSL	8313	31-3	1327	Fri	Japanese Navy a.k.a. Slotmachine	QPSK 1500Bd	(AB-NZL)
XSL	8508	31-3	1327	Fri	Japanese Navy a.k.a. Slotmachine	QPSK 1500Bd	(AB-NZL)
XSL	8703.5	31-3	1327	Fri	Japanese Navy a.k.a. Slotmachine	QPSK 1500Bd	(AB-NZL)

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AB-G	Ary Boender via remote rx UK	HFD-RUS	Hans-Friedrich Dumrese via remote rx Russia
AB-GRC	Ary Boender via remote rx Greece	JPL	JPL, Ontario, Canada (and various remotes)
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-J	JPL via remote rx Japan
AB-J	Ary Boender via remote rx Japan	JPL-NZL	JPL via remote rx New Zealand
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AB-POL	Ary Boender via remorx Poland	K3DCW	Dave Wright, MD, USA
AB-RUS	Ary Boender via remote rx Russia	LG3	Looking Glass, Australia
AB-S	Ary Boender via remote rx Sweden	MCO	Mike Chace-Ortiz, PA, USA
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ES-GRC	Edward Smith via remote rc Greece	SG	Steve Gunn, UK
ES-I	Edward Smith via remote rx Italy	SP1	Sylvain, France
ES-ISR	Edward Smith via remote rx Israel	SP1-J	Sylvain via remote rx Japan
ES-POL	Edward Smith via remote rx Poland	Tom	Tom, Lincs, UK
ES-UKR	Edward Smith via remote rx Ukraine	W9SPY	Curt
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To become an UDXF member go to <https://groups.io/g/UDXF> and follow the instructions.

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723 87629 37677 32612 53498 71296 28756 18276 98716 87  
769 76329 74698 76857 98670 27601 56701 57601 73648 16  
591 87364 87265 96710 27630 12673 84769 28743 98127 56  
8 63298 75698 27465 87326 49876 28376 81273 98615 49  
67 87432 74328 78674 29867 32867 67867 86786 43246 432  
67 68768 68763 34234 34238 68768 62342 48273 48768 234  
66 98432 32432 86743 43286 43286 43286 43286 43286 432  
743 86743 86743 39867 32867 86743 43286 43286 43243 86  
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83 98798 98754 98754 98754 98754 29867 67543 67986 86  
76 87698 69876 87698 69876 87612 12341 34867 86798 682  
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