

27364	92836	89428	81268	74982	86498	32784	31277
40932	70987	32123	49817	26346	81287	65491	87364
75654	55656	12737	72727	72727	91918	63473	67867
87629	37677	32612	53498	71296	28756	18276	98716
76329	74698	76857	98670	27601	56701	57601	73648
87364	87265	96710	27630	12673	84769	28743	98127
63298	75698	27465	87326	49876	28376	81273	98615
87432	74328	78674	29867	32867	67867	86786	43286
68768	68763	34234	34238	68768	62342	48273	48768
98432	32432	86743	43286	43286	43286	43286	43286
86743	86743	39867	32867	86743	43286	43286	43243
86743	86743	86743	86743	86743	86743	86743	86743
98798	98754	98754	98754	98754	29867	67543	67986
87698	69876	87698	69876	87612	12341	34867	86798
43298	65656	56756	56123	32143	14321	32143	14321
58765	58765	58765	58765	76587	58765	76587	58756

Numbers & Oddities
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 a.k.a. *The Spooks Newsletter*
 The Spooks Newsletter

Edition #315, December 2023

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

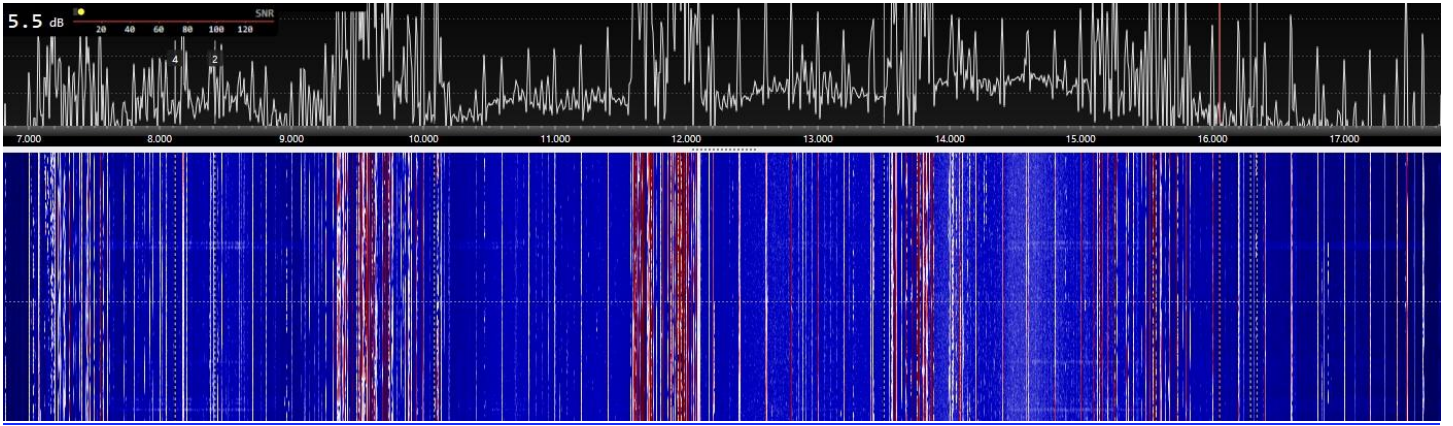
"Numbers & Oddities" a.k.a. the "Spooks Newsletter" is a newsletter for the members of the Utility DXers Forum (UDXF), the Spooks mailing list, HF Underground and everyone else who is interested in Numbers Stations.

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



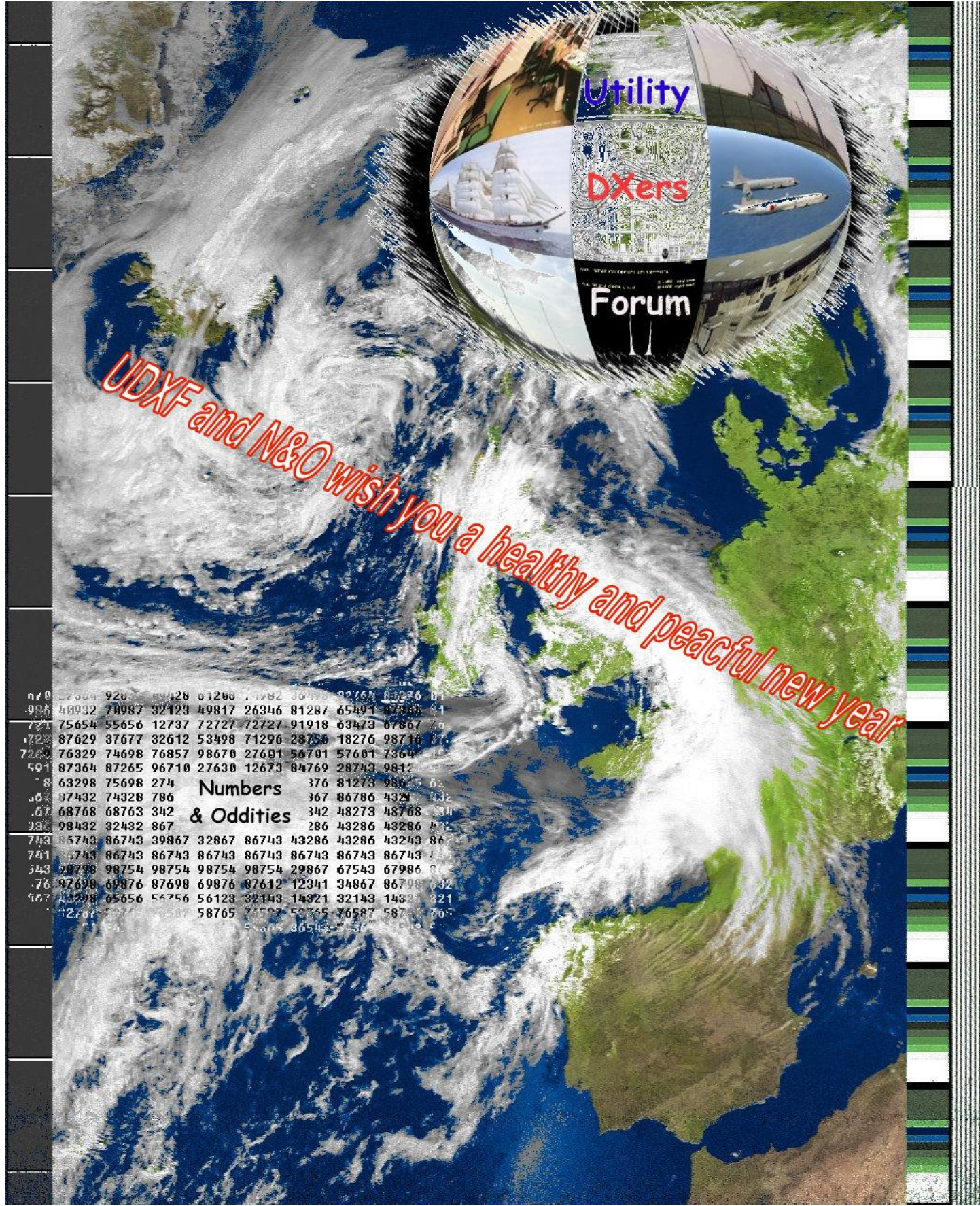
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UDXF and N&O wish you a healthy and peaceful new year

n70 27504 920 87428 01200 14282 30488 22765 53270 01
 904 48992 70987 32123 49817 26346 81287 65491 87303 41
 721 75654 55656 12737 72727 72727 91918 63473 07867 76
 722 87629 87677 32612 53498 71296 28758 18276 98710 77
 723 76329 74698 76857 98670 27601 56701 57601 7364 78
 591 87364 87265 96710 27630 12673 84769 28743 9812 79
 8 63298 75698 274 Numbers 376 81273 98675 62
 64 87432 74328 786 367 86786 4328 83
 67 68768 68763 342 & Oddities 342 48273 48768 80
 93 98432 32432 867 286 43286 43286 81
 743 85743 86743 39867 32867 86743 43286 43286 43243 86
 741 85743 86743 86743 86743 86743 86743 86743 86743 86
 343 86798 98754 98754 98754 98754 29867 67543 67986 87
 76 87698 69876 87698 69876 87612 12341 34867 86798 832
 667 87698 65656 56756 56123 32143 14921 32143 14321 821
 42707 87698 58765 58765 27527 50765 76587 58765 707

FOREWORD

I have to start with sad news: former editor of WUN Logs and the WUN newsletter, Bill Lawrie, passed away a couple of months ago.

Tracey G5VU forwarded more sad news. *“Andrew Ikin of Wellbrook Communications passed away on 25th October 2023 after a very short illness. Andrew was internationally known and respected, his products were second to none and his reputation for customer service renowned. The amateur radio and radio listener fraternity have lost a true colossus.”*

I extend my deepest condolences to Bill's and Andrew's families May they rest in peace.

Another year has come to an end. Not a good one in my opinion. There are many armed conflicts in the world, resulting in a huge flow of refugees. The climate is changing, that is a known fact. In Holland we had the wettest and warmest year ever recorded while other places were extremely dry and hot, or much colder than in the past. I hope that 2024 will be much better for all of us.

I would like to express my thanks to everyone who shared information and logs with UDXF and Numbers & Oddities. Special thanks go to Ron, Jim and Dave for helping me running UDXF, and to Pierre, Subilo and the Priyom team for their ongoing support and many logs.

ATTENTION ALL AGENTS!

Upcoming crypto transmission from KPH!

On January 20, the Maritime Radio Historical Society, in cooperation with the Cipher History Museum, present a unique, over-the-air cryptographic challenge. For more information see <https://www.radiomarine.org/mrhs-events>

The F06 tsunami ended on December 8th and F06 70202 and F01 returned to their usual schedules on December 11th. HM01 still didn't show up, and a new station was found in the first days of December. See the Utility Round-up for more information and logs.

In this issue you will find more pictures from the *Secret Communications 4* exhibition.

Enjoy!!!



Enigma, Fialka and other equipment

VOICE STATIONS

E06

14575/17420 kHz, 07-12/08-12, 0600/0700 UTC

923 641 50
82144 71663 73418 83694 20957 54092 64813 23926 73523 49135
77525 57305 01113 48644 73430 81251 06154 16316 03693 90054
27356 56992 24054 95003 59132 07556 18012 84075 68778 16579
63859 00858 09852 04943 06502 47397 55168 24593 20005 40668
97871 57633 71790 77334 94006 22934 24444 86500 45031 82445
641 50 00000

14575/17420 kHz, 21-12/22-12, 0600/0700 UTC

923 876 51
14816 35088 64005 68237 42918 17157 46493 39484 38944 48520
81643 17749 97013 43601 35693 56100 03810 25337 45949 29243
48651 94307 60219 75694 96563 12818 50934 37184 29015 27349
21180 57521 82024 77828 44794 51878 36313 67160 07751 82419
39201 89437 42987 01215 62924 40286 75885 46374 29067 57783
22579
876 51 00000

The new season for these S06, E06, and F06 schedules started most likely on the 23rd.

The messages use entirely new groups, while these transmissions have had a habit to reuse the same content, spliced or whole, year after year. And like last year, Wednesday slots use S06 while weekend slots use E06. (PY)

7377/5410 kHz, 30-12, 1600/1630 UTC

9946/8095 kHz, 31-12, 0730/0800 UTC

480 536 48
35416 32312 89121 46857 71874 43148 04736 41475 34673 65459
54934 42971 67472 24930 82528 64826 59749 89450 27975 68565
25725 79459 97313 50575 13514 19389 38292 73540 43891 43456
91696 45097 46261 50235 32685 57587 30954 94901 89490 08109
16526 16585 93275 92702 53826 13191 19151 17029
536 48 00000

Group Count Cycle net

14654/12177 kHz, 01-12, 0300/0400 UTC

361 209 43
04749 18437 53093 96356 82028 79462 48459 09813 59687 55878
52284 43443 29194 54212 18192 45232 04753 91957 40939 00461
45277 01150 43080 08783 58480 42592 14849 27404 35537 72923
18209 35064 89751 31686 90997 96508 97664 40622 12105 32139
66039 32345 13624
209 43 00000

14654/12177 kHz, 07-12/08-12, 0300/0400 UTC

361 578 44
81136 88521 59562 60463 94063 35587 76086 94296 45368 33167
21130 64494 17655 83027 22241 77428 60923 00871 61422 35571
24818 96310 68754 74354 86667 31853 11034 74125 55025 59312
67625 08142 53371 57112 10699 12532 13694 16900 32061 89171
34606 52916 83745 77406
578 44 00000

14654/12177 kHz, 14-12/15-12, 0300/0400 UTC

361 290 45
72347 41106 38293 48921 39233 70139 13793 64725 42881 77044
19282 85167 01009 01851 87103 07983 57345 13474 88186 94521
27208 06346 58913 22866 56844 65880 72234 62142 88736 63737
57707 91458 50043 68797 00148 11913 06383 84806 71576 25099
48126 50611 76167 76561 01407
290 45 00000

14654/12177 kHz, 21-12/22-12, 0300/0400 UTC

361 587 46
89726 10711 85509 09201 02720 03574 88814 18232 98210 71665
77272 74641 21473 47088 15082 92861 86839 87323 93730 25705
10290 06916 34153 93939 51119 54563 15955 51134 29879 71562
13366 82183 14765 92533 42622 58966 93665 74367 50461 01571
74027 64337 98417 18523 77751 43302
587 46 00000

14654/12177 kHz, 28-12/29-12, 0300/0400 UTC

361 902 47
36499 07913 58170 05605 99520 57837 43103 12982 80727 39267
96296 54380 90948 36899 68939 99292 20406 90582 79008 06242
79842 19732 27064 70471 82767 53296 39864 10813 23505 38743
09012 31638 30722 28473 16798 20851 01144 67119 66450 69853
43124 28167 58954 26421 84770 73316 83648
902 47 00000

9382/13426 kHz, 04-12/05-12, 0210/0310 UTC

537 291 48
59019 33467 27992 76320 42912 57652 50532 87247 39337 02150
51976 24695 54967 08507 55953 61288 00277 40787 16249 08306
18438 23818 76801 59441 22917 24901 48993 20999 67190 96161
92164 58205 95034 19737 08281 12312 44814 22977 86705 68195
06218 55856 60001 77126 52865 47779 56712 64409
291 48 00000

9382/13426 kHz, 11-12/12-12, 0210/0310 UTC

268 49
59173 85951 08133 36396 69009 36139 55024 05216 57875 69055
86278 13499 52606 75591 14919 94201 32212 96965 52865 11107
11490 61530 88742 16588 73560 66219 88822 25082 81022 51043
63301 13236 20401 40108 65101 82639 59588 47560 13370 46104
22961 71920 58884 23404 13859 27226 33529 57432 39115
268 49 00000

9382/13426 kHz, 18-12/19-12, 0210/0310 UTC

13426 19-12-2023 0310 E06 USB (PY)
537 149 50
33258 56500 18554 62036 90666 40637 03097 96153 78716 70435
11081 87194 70282 13870 75325 38974 58044 77378 18222 89503
37313 38763 10008 71095 50289 87223 62678 48686 21434 18960
01737 47318 38634 61772 82955 04727 59868 27107 46356 09949
50038 12981 24571 13923 77665 06218 47797 22980 26143 57447
149 50 00000

9382/13426 kHz, 25-12/26-12, 0210/0310 UTC

537 682 30
13266 71634 60653 09522 87206 39737 34843 57359 53315 17275
19545 75976 72234 92513 56249 48679 14769 65819 53604 27770
62720 22655 96127 96848 14141 28545 62780 82425 35152 56947
682 30 00000

13539/12139/10239 kHz, 1500/1520/1540 UTC

13539/12139/10239 kHz, 05-12/08-12, 1500/1520/1540 UTC

512 512 512 1 373 138 373 138
 51302 37673 55736 78565 87174 94882 42513 57426 67340 07708
 13402 68803 62769 05420 14200 20515 07224 62212 32858 96850
 54054 11151 95740 49959 01060 92458 56218 93961 52522 67270
 70785 57011 15854 50609 90118 22348 04123 38806 18610 79483
 78370 16805 45795 47694 92233 22132 08040 81200 95527 55396
 08030 58981 31902 10178 32252 94466 94674 01975 33285 07611
 95679 24773 33848 03342 96665 63434 80283 03211 44233 32130
 01106 54218 52824 92516 96630 10642 18161 06943 92879 68274
 64625 56013 43102 88703 75651 78527 40414 37657 18826 24928
 67032 94205 80494 33762 48482 17460 18615 67970 39623 03592
 09672 88881 53521 20954 91173 55277 10895 58698 22588 25128
 40905 30754 95627 61940 69942 42722 75085 02301 88065 42612
 64194 81087 52536 60132 69070 74022 83020 96614 04715 82375
 21994 57827 45284 67145 12495 16308 03977 51284 000 000

13539/12139/10239 kHz, 19-12/22-12, 1500/1520/1540 UTC

512 512 512 1 204 66 204 66
 22978 18353 41506 78381 24253 74313 22559 10137 96028 13297
 01926 74824 02327 78946 56612 82154 01916 97084 60801 13837
 25722 22217 03900 33835 31418 39256 59646 88032 93035 65146
 11197 56657 10820 23947 29129 16606 11721 79561 45720 17140
 13969 43742 64322 10073 01287 03599 02363 39102 16115 00295
 51283 01779 19765 60369 34549 81495 11594 91806 47625 49003
 56395 73337 23458 23830 94982 82084 000 000

10226/9226/8126 kHz, 1410/1430/1450 UTC

10226/9226/8126 kHz, 07-12/09-12, 1410/1430/1450 UTC

674 674 674 1 6210 73 6210 73
 51866 55975 93280 18872 16267 54586 53743 93201 45317 24920
 94682 49137 13093 33483 09402 52777 66417 10731 25434 14905
 40398 65778 12921 56450 97731 95879 63571 22360 64916 36243
 07303 46392 07499 06268 02404 35381 65213 23048 53623 09585
 57654 10295 69865 87544 20965 21190 33330 88366 19947 58973
 03771 15139 09185 21753 04927 46124 79616 63512 84342 41598
 01575 56187 91598 58907 11730 81703 13317 68227 81628 88456
 18751 56087 10307 000 000

10226/9226/8126 kHz, 21-12/23-12, 1410/1430/1450 UTC

674 674 674 1 285 58 285 58
 35181 11947 40273 83768 91647 26639 19510 84635 34703 95699
 10543 45065 30150 65109 26336 06449 75492 24333 61126 79631
 69361 90325 20580 29244 49948 25758 17983 96728 34022 24003
 34466 72409 22133 59688 19390 85652 76447 05235 82297 56014
 81586 93676 25182 11537 08375 39790 26855 76763 22169 92026
 92003 18471 63980 56360 62279 47490 75384 22135 000 000

Test transmission

8072 kHz, 14-12, 1120 UTC

68 687 687 1 6714 14 6714 14
 27684 53178 58016 35297 10920 87952 77281 63248 21703 84430
 05733 84247 84001 12152 000 000

7850 kHz, 01-12/03-12, 0600 UTC

352/33 Attention

14884 76864 50044 75950 34155 14855 01451 29917 67128 58129
51871 48047 54608 58823 31675 56192 71098 90023 37109 31560
14979 76539 88112 02041 27634 57333 87907 99511 25759 82913
85399 81447 34928

Attention (message repeated) Out

11104 kHz, 04-12/06-12, 0715 UTC

750/38 Attention

44414 55756 67595 56786 79346 76648 41992 70045 86549 43919
36706 65212 09742 89350 52245 95274 38319 28756 87434 65571
86592 69967 35774 85504 89900 10491 56577 22654 44667 36994
21597 13359 71445 61856 78271 54586 97785 86721

Attention (message repeated) Out

23353 kHz, 04-12/08-12, 0830 UTC

185/26 Attention

27476 89737 47357 81023 33044 51827 99988 34954 18202 91736
72571 62025 72024 12477 62732 25765 84887 83853 18950 38904
30507 02747 77652 60724 94565 90410

Attention (message repeated) Out

12067 kHz, 04-12/06-12, 0845 UTC

719/37 Attention

01668 69192 14842 71204 01037 98803 21890 71189 59032 36735
18704 94485 15577 97171 23907 63788 11893 77293 48423 60410
58090 41730 67067 92223 75755 97125 52154 67442 84478 29852
49206 09864 04512 85460 82075 62598 03618

Attention (message repeated) Out

13908 kHz, 05-12/07-12, 0745 UTC

221/32 Attention

85318 24724 52402 62345 26487 79511 69067 27761 93694 10698
17245 21303 20142 70481 24299 13321 95863 80382 87245 50327
35862 12874 04128 57026 75206 50401 21792 62654 76832 77322
71460 66242

Attention (message repeated) Out

9079 kHz, 05-12/08-12, 1000 UTC

305/21 Attention

77824 50169 92479 71690 01424 05227 04465 64079 85741 57994
36483 29363 35605 96469 98757 46274 25053 97326 81576 52084
60995 Attention (message repeated) Out

23004 kHz, 06-12, 0600 UTC

948/40 Attention

46047 81929 35401 94416 62205 51607 79305 67171 51223 67391
87137 92661 82379 70683 28947 18990 09978 36085 94205 64531
82086 24645 83404 05391 10235 03325 64657 29540 09496 74046
69630 51960 10866 80824 52728 54284 62415 00974 89318 81081

Attention (message repeated) Out

6849 kHz, 08-12/10-12, 1815 UTC

927/38 Attention

82555 20807 19901 21016 25510 09515 24288 27310 79574 56022
71045 52604 96622 24114 23198 49263 31399 97146 74734 66436
76744 20676 02039 44409 26331 23274 40314 16336 56530 53305
75577 21780 37389 33787 23530 40343 49004 71724

Attention (message repeated) Out

4909 kHz, 09-12/10-12, 1530 UTC

363/40 Attention

34300 26227 02706 94224 76086 55005 66803 29635 08022 68135
10429 23084 96059 36299 62431 33277 57843 70465 53995 10392
88918 89147 04593 54502 86853 67809 82256 38329 58251 14004
13506 28138 62659 91575 82339 06272 19197 07515 85613 97728
Attention (message repeated) Out

4909 kHz, 11-12/14-12, 1300 UTC

315/35 Attention

33957 03230 37238 88376 19583 63255 89098 93722 31210 98525
40444 64737 19510 16156 73344 59970 02355 24945 82989 33332
67479 98907 93850 14199 39164 92870 99986 02550 89045 11876
55926 62073 35127 76971 68811
Attention (message repeated) Out

7840 kHz, 12-12, 0645 UTC

510/33 Attention

47593 89395 60142 27539 97347 35433 67733 54285 29392 87840
24722 53182 03280 94806 91296 65942 47507 60606 57873 94309
03085 49048 43908 18355 86174 25170 14109 74190 40202 16148
63717 78115 80854
Attention (message repeated) Out

14611 kHz, 12-12/13-12, 0820 UTC

134/38 Attention

99314 93367 14252 54401 24840 28016 32578 82973 01338 13870
58887 16761 49735 06715 80914 89356 87903 82010 22195 12869
49315 87916 77756 75025 82350 84986 23683 13475 15740 52635
22566 06264 53913 04719 77186 14352 32051 02649
Attention (message repeated) Out

17378 kHz, 12-12/14-12, 0845 UTC

157/26 Attention

33197 08482 87989 53677 66707 73144 70479 93695 85044 96467
04930 75916 99988 93509 03936 66053 62107 21709 25451 41997
62481 59967 32649 50110 31230 92066
Attention (message repeated) Out

17378 kHz, 13-12/15-12, 0745 UTC

349/36 Attention

52318 29268 45360 10804 68559 02851 94075 46261 83624 49853
35951 69868 74928 57096 00882 63271 20716 38039 19693 48723
47207 14258 66916 43574 03329 54945 78411 78755 74814 00697
94972 49905 44554 50654 40041 08659
Attention (message repeated) Out

6986 kHz, 14-12/15-12, 0820 UTC

430/32 Attention

38694 29309 96134 24460 18724 55873 87888 47069 99273 57083
01963 74962 10605 46240 01920 61395 42943 89073 07048 02523
90839 29479 84274 08688 50824 70013 69982 53463 61956 37847
82475 86415
Attention (message repeated) Out

8456 kHz, 18-12/19-12, 0315 UTC

250/38 Attention

42033 60223 94284 70673 78786 43492 98825 41855 73225 62144
04695 55462 86143 28148 32822 78825 32411 60696 96589 09276
05703 60458 25246 54249 84686 39676 55350 04528 70459 20765
87305 99669 25171 95772 21127 85411 86045 15250
Attention (message repeated) Out

4909 kHz, 18-12, 0450 UTC

415/30 Attention

59282 71414 70511 33209 83647 99241 16289 98910 60483 62749
24512 97958 81119 26710 16463 07453 50265 70231 19592 77095
93976 55663 93750 13769 10350 06428 37412 32956 54620 43769
Attention (message repeated) Out

10213 kHz, 18-12, 0745 UTC

5409 kHz, 21-12, 1530 UTC

94921 81855 31828 24023 16579 87717 23072 43488 33143 48287
17282 11424 44348 87990 80157 51102 18616 81207 52551 84363
40491 84160 48002 21537 15911 67399 73092 47465 59959 20838
56324 90093 25012 18661
Attention (message repeated) Out

11092 kHz, 18-12/20-12, 0900 UTC

538/37 Attention

17325 31838 32752 62953 97584 91716 15272 49453 70541 94772
97080 36720 56911 14372 87769 31143 74818 15201 79410 04638
12424 25147 62770 61202 94993 82135 57701 94678 99239 22689
75086 76893 99785 34040 85098 02960 30062
Attention (message repeated) Out

6849 kHz, 18-12/21-12, 1900 UTC

643/39 Attention

07611 76121 44818 20875 06728 22856 23878 88399 28110 47471
24746 24594 62014 09393 76390 25260 83046 19778 77526 99335
68103 79709 96041 44921 84710 12860 82751 01513 23370 59389
29354 32902 06302 43079 76042 88498 76441 40674 19532
Attention (message repeated) Out

9130 kHz, 19-12/22-12, 0715 UTC

630/34 Attention

36689 01011 89754 74037 04574 13810 96483 93471 42332 41059
33949 82577 58035 15153 26162 80925 93691 11488 87983 90239
88936 48907 13989 46284 70666 77099 58082 91769 54914 03068
30655 95369 25764 60442
Attention (message repeated) Out

11559 kHz, 19-12/20-12, 1205 UTC

461/40 Attention

00026 39777 90979 33461 79110 45478 31143 85436 77141 94364
55580 75528 77762 15218 62230 37979 01591 27953 73202 29754
68551 03791 31559 52022 27951 95267 15560 15468 53995 14341
37025 24037 75806 03909 27287 19011 84820 88950 21205 17532
Attention (message repeated) Out

5432 kHz, 19-12/25-12, 1605 UTC

236/35 Attention

33426 29972 92592 23955 50899 15218 63890 44488 07861 38413
91220 33820 38312 96965 54128 28095 96159 50588 59630 91610
07080 20410 38669 74708 24322 44108 95121 07870 56425 98391
57227 89670 99530 99414 07714
Attention (message repeated) Out

5082 kHz, 20-12/22-12, 1715 UTC

978/34 Attention

50691 00519 82096 08097 60191 78218 92293 76919 99922 66993
03804 63542 01540 15754 90253 85434 16197 62663 17888 37479
92026 36625 50664 30527 00263 16306 65461 38088 79861 65992
88249 64964 11779 95308
Attention (message repeated) Out

12924 kHz, 24-12, 1745 UTC

242/33 Attention

75204 11386 11415 16431 52920 42704 51551 96736 70953 63594
84643 94084 06264 30112 49426 24449 57205 23916 33284 47947
30004 27555 17985 49008 01185 74641 44762 31005 70090 86164
43674 34252 09613

Attention (message repeated) Out

11100 kHz, 25-12/27-12, 1045 UTC

690/33 Attention

99121 00493 44490 59263 64333 54063 76658 18151 50555 40003
27285 66397 61514 81624 58852 59046 76814 63743 48891 20430
26683 93217 05984 49100 81330 36699 60184 87860 21914 73566
54637 26653 51137

Attention (message repeated) Out

6804 kHz, 26-12, 0700 UTC

573/40 Attention

23478 66048 80833 36569 60331 79582 15981 52431 24167 36976
95918 80602 41178 97617 65269 01834 26690 03722 23400 06299
33031 34667 87424 13943 38145 39839 50597 43852 31150 48168
59943 92080 67249 32527 10020 52873 74555 29134 92465 55443

Attention (message repeated) Out

13363 kHz, 26-12/30-12, 1430 UTC

918/40 Attention

96489 28495 79993 77098 48688 77716 43567 10908 59378 37040
96468 74356 61562 99773 83962 56858 00367 27564 31809 93657
82109 79502 75737 24012 07914 89547 70903 42759 52749 68808
66035 87987 27028 97870 24966 99894 58875 21558 28136 52432

Attention (message repeated) Out

7469 kHz, 27-12, 0930 UTC

275/32 Attention

59371 80571 25871 46200 71217 27401 83088 03704 69759 23001
80507 24204 96418 86454 67056 53081 27907 95626 24220 20161
79353 11830 26664 62669 15176 40586 16897 61161 86545 50987
65142 00546

Attention (message repeated) Out

4505 kHz, 27-12/30-12, 1910 UTC

390/31 Attention

80403 83645 82225 11503 53359 24703 92411 22275 26005 09886
85462 31874 94934 70927 72074 30263 70741 08670 10452 03737
65638 24430 77456 81858 42032 48363 61915 13022 52575 65647
21033

Attention (message repeated) Out

5082 kHz, 28-12/31-12, 2000 UTC

525/33 Attention

52304 33160 64838 38537 35786 95483 83130 76360 96659 00886
01551 83174 20593 79948 94383 98009 87113 63434 96269 33607
56076 02267 28753 34558 38913 07755 54170 67999 01754 98917
39406 51143 94930

Attention (message repeated) Out

10487 kHz, 29-12/31-12, 1910 UTC

618/35 Attention

54177 38759 09502 17639 35177 35230 13835 79245 15269 44994
83097 83067 74590 17615 61600 27145 73109 92914 35440 11183
76759 71283 27477 26546 85821 89702 75312 33590 52341 66969
09626 24784 95574 68171 68249

Attention (message repeated) Out

5371 kHz, 30-12/31-12, 0700 UTC

492/36 Attention

30150 81710 18239 31008 87189 93731 35150 66250 78893 58487

29102 46110 02672 09157 25321 73169 59242 10352 02183 24068

64557 90864 86558 86484 90606 99548 60490 92868 78643 22366

76239 52724 28398 36823 49550 69408

Attention (message repeated) Out



Enigma K

G06

11073 kHz, 14-12, 0756+0759 UTC. 1200Hz test tones

11073 kHz, 14-12, 0800 UTC. "352" once

11073 kHz, 14-12, 0815 UTC

352 (R2m15s)

3 [3s silence]

52 352 (R1m10s) [23s silence]

352 (R1m10s) 487 60

09460 48538 58791 13122 68747 35145 75403 77623 16335 87832

59346 33759 48566 [45s silence]

352 (R1m)

16335 87832

59346 33759 48566 53908 50167 69283 29284 52957 22626 17149

94026 91558 29021 10895 45727 35517 29117 78028 40348 31807

68602 76073 85898 97410 92027 00992 03272 17234 01142 22646

22329 18294 94590 27011 11681 12370 49889 69798 65594 24287

33621 71209 96467 48040 50798 06473 06306 97936 69316 71886

487 60 00000

Full recomposed message:

352 487 60

09460 48538 58791 13122 68747 35145 75403 77623 16335 87832

59346 33759 48566 53908 50167 69283 29284 52957 22626 17149

94026 91558 29021 10895 45727 35517 29117 78028 40348 31807

68602 76073 85898 97410 92027 00992 03272 17234 01142 22646

22329 18294 94590 27011 11681 12370 49889 69798 65594 24287

33621 71209 96467 48040 50798 06473 06306 97936 69316 71886

487 60 00000

S06

The new season for these S06, E06, and F06 schedules started most likely on the 23rd. The messages use entirely new groups, while these transmissions have had a habit to reuse the same content, spliced or whole, year after year. And like last year, Wednesday slots use S06 while weekend slots use E06. (PY)

9463/9073 kHz, 20-12, 0930/1030 UTC

480 527 48

96264 47939 34148 12908 38950 23762 32307 95041 38394 75242

43463 47052 15431 24565 06746 26795 30712 09816 76468 89635

39832 93083 79281 15850 70807 83453 16489 17890 83534 59128

54985 96103 46497 38285 48457 95213 18653 92461 29524 52563

95985 42107 86058 23167 93581 80793 53216 25478

527 48 00000

9463/9073 kHz, 27-12, 0930/1030 UTC

480 127 49

57280 65478 48539 84541 06982 74150 95390 58531 02678 47820

21963 91805 46462 93514 04276 79216 87208 15412 31636 83860

89565 12797 13273 71751 54950 52016 43084 78230 31804 90738

02343 69754 05862 93858 86429 46740 31354 83070 94896 87256

31261 26736 98583 32523 48562 85931 01237 62517 31537

127 49 00000

11616/9322 kHz, 01-12, 0400/0420 UTC

480 573 61

63385 40029 18271 09119 09257 02828 77102 15665 44828 99468

77195 15313 12716 55815 86704 18057 83964 07422 60141 55116

83006 93135 50106 56371 68595 28473 17958 22429 87874 44732

73081 39749 45780 04752 95471 12282 56963 31278 21295 08046

72421 08862 96132 44077 98020 45229 25583 58205 47103 03062

77915 41078 94363 38129 18468 26875 23178 04696 80463 66155
83586
573 61 00000

11616/9322 kHz, 04-12, 0400/0420 UTC

480 621 59
29519 38117 73969 79651 75846 99071 68197 12435 19765 77573
49682 36915 88279 54913 31201 23588 41947 49279 55720 22422
81266 91458 93657 42904 15666 13531 05085 58798 56025 55227
90301 54791 16676 17667 77239 57226 37802 19132 19105 16101
64198 32590 00726 30530 41304 09634 77019 34840 14470 20543
92030 87511 42375 65139 51971 30127 60550 34132 50703
621 59 00000

11616/9322 kHz, 05-12, 0400/0420 UTC

480 572 61
08952 45561 56585 64823 62633 14969 19083 06855 81733 61344
36102 71453 71275 87026 80436 03129 31521 56869 69114 25765
50614 30224 67028 79528 82873 21136 31683 63339 54911 97702
53738 56353 66775 56531 73044 16879 80301 33232 74851 82178
11850 34880 95882 17581 71635 05395 94957 88351 16820 59754
67854 52751 10561 48013 11099 99728 04215 35023 64362 79672
84858
572 61 00000

11616/9322 kHz, 06-12, 0400/0420 UTC

480 913 56
63701 34702 41345 69307 90602 68185 55121 27315 12890 73974
21364 72656 48417 86632 14331 58820 50635 78453 95759 70843
01448 17538 73997 64690 26839 39635 31970 50860 33679 25948
84937 26929 91163 04075 53980 86695 05323 14292 66134 74638
60026 08347 17132 23355 22937 72968 57672 48673 39840 95260
89172 62137 65789 12186 79917 97533
913 56 00000

11616/9322 kHz, 07-12, 0400/0420 UTC

480 913 56
63701 34702 41345 69307 90602 68185 55121 27315 12890 73974
21364 72656 48417 86632 14331 58820 50635 78453 95759 70843
01448 17538 73997 64690 26839 39635 31970 50860 33679 25948
84937 26929 91163 04075 53980 88695 05323 14292 66134 74638
60026 08347 17132 23355 22937 72968 57672 48673 39840 95260
89172 62137 65789 12186 79917 97533
913 56 00000

11616/9322 kHz, 08-12, 0400/0420 UTC

480 369 50
09461 08491 52659 49777 97621 77544 52756 92285 59628 31672
27738 08342 42828 48104 41272 78866 39694 03543 23518 62922
61919 13359 10882 15285 22024 08399 73780 43953 14678 10316
37058 31047 14906 91381 22788 65514 35384 29701 70107 61090
10004 95782 11805 57955 95892 31386 12321 31516 11077 06600
369 50 00000

11616/9322 kHz, 11-12, 0400/0420 UTC

480 376 58
83393 39919 88143 66568 16702 39969 57031 59559 51274 95194
16349 29023 47339 45605 28029 69071 73608 91468 74447 17137
65090 66110 66156 84381 06918 08810 50104 69555 25884 98724
23033 90734 13174 35795 79742 72373 18376 79557 50896 07709
82262 81803 10073 12762 00533 74024 54744 49958 35690 95578
90861 69829 19265 73521 75743 42202 11545 90028
376 58 00000

11616/9322 kHz, 12-12, 0400/0420 UTC

480 659 57
77482 07363 01298 66603 61158 48402 53659 33673 69982 95736
85619 65907 73293 22905 74027 68327 75083 19268 87726 70378
23726 07430 18432 99068 71419 09203 54283 65484 00526 46041
25762 13124 58988 84881 78661 01490 72020 65334 53787 23361
22248 69163 78094 79206 15502 17981 96928 57155 74440 10111
02072 91978 27190 32540 35280 01508 83189
659 57 00000

11616/9322 kHz, 13-12, 0400/0420 UTC

480 123 57
32582 68093 15684 15058 00296 99700 44677 43602 04953 52886
61172 84299 26398 84173 09292 40253 67614 20851 62369 37582
31447 13359 28636 72589 50168 51836 77699 62926 35051 82760
67520 01198 38157 86634 76555 34448 43518 02632 70769 17967
29896 11163 60196 16842 72317 10283 24740 53709 74562 46889
13898 26128 49793 88635 50099 42025 91527
123 57 00000

11616/9322 kHz, 14-12, 0400/0420 UTC

480 579 61
86475 00765 47683 81457 80224 18599 33372 47854 78847 29179
95000 06559 59849 44915 94002 36684 53531 66013 49948 03734
00673 37654 70154 26395 80234 57257 29780 95772 99270 92785
07100 70494 62236 98026 03638 96146 61870 35776 03856 22449
58855 44872 54068 16627 42432 12020 65315 96420 89156 34328
69803 31145 61991 83518 85679 84267 16913 07721 69783 95916
09237
579 61 00000

11616/9322 kHz, 15-12, 0400/0420 UTC

480 361 59
44566 47168 18912 05876 79904 60972 20255 08098 37977 33305
27615 52585 94857 69908 71536 76220 30740 25628 70651 69210
56879 32894 42853 74708 32486 79918 65010 31125 94989 55775
67142 86788 52123 04575 72022 41664 09261 55900 16112 95813
30447 23701 12790 09272 56557 90835 43802 03043 29015 21441
89868 55896 92528 68324 36390 76654 75255 67564 15192
361 59 00000

11616/9322 kHz, 18-12, 0400/0420 UTC

480 725 61
32537 51013 62501 92753 19437 11704 01110 82570 57366 70480
65161 76221 05375 73252 12495 79379 49220 10795 81925 85804
31122 63275 24613 52928 21413 92244 82787 14247 74268 58049
70534 01972 34705 53579 36307 78370 89043 60312 11876 99241
76006 45569 77383 57945 00656 00941 97200 83446 18343 30805
06278 90800 80876 51880 51662 07508 62067 89754 18888 24198
04877
725 61 00000

11616/9322 kHz, 19-12, 0400/0420 UTC

480 693 51
18241 01823 01843 10194 06598 53876 01643 47776 92008 91370
56071 28434 06536 63467 30157 48355 61469 53339 48413 48527
28417 27407 59829 33162 00193 83501 97378 61267 17419 27641
80675 53551 71792 34106 35107 81842 21949 68507 25907 33224
82857 78524 30610 66050 74696 82012 98325 00061 42130 07153
69260
693 51 00000

11616/9322 kHz, 20-12, 0400/0420 UTC

480 127 53
44027 27112 02128 91006 08627 08974 27523 07311 81225 49516
28840 61111 57300 20249 09201 70924 18966 54378 22803 23532
54110 36234 90781 97044 90466 65398 90605 51642 68070 12727
04955 17678 98529 10458 40991 35836 34553 43589 55599 29022
98161 34706 50287 10682 41039 39464 13336 59236 35440 94893
34085 13314 19106
127 53 00000

11616/9322 kHz, 21-12, 0400/0420 UTC

480 563 61
55594 60568 21798 97764 91763 82888 20756 29239 32069 96648
38524 01881 09098 25020 67104 31436 55265 73500 26153 51996
95111 10184 58065 60187 09973 07843 32147 04756 29700 21264
25050 57516 31110 98283 69671 26574 47870 47938 89687 97775
21494 14193 61931 15318 48134 28669 73781 37454 00870 40813
67760 28235 32161 48946 90526 71227 86179 80628 88452 16134
75673
563 61 00000

11616/9322 kHz, 22-12, 0400/0420 UTC

480 261 53
14171 62844 29471 64188 97074 39958 81419 22905 20982 88375
54155 70981 39109 46524 76512 11056 31995 28891 54886 19904
82518 19864 36192 31980 37342 99701 31466 26178 84468 51072
42305 26755 01601 19593 57312 54347 54986 26810 10765 88029
53440 59064 20666 24335 87234 80665 48383 44200 06525 44823
47055 23744 19036
261 53 00000

11616/9322 kHz, 25-12, 0400/0420 UTC

480 759 61
90483 13336 21123 16177 39570 59656 13318 60876 85489 20402
68013 65271 42416 81661 66703 67080 25190 23851 17603 13020
70594 21884 25223 50425 14208 23160 49105 64673 96257 70586
87650 42083 94914 62803 47990 63013 10464 68795 87822 54797
48800 39097 40164 59250 77664 80759 56946 94405 54087 88277
32399 15173 46447 47662 92153 02621 99602 55841 59011 36545
16529
759 61 00000

11616/9322 kHz, 26-12, 0400/0420 UTC

480 316 54
16419 17636 10380 74388 55979 97088 20471 11949 94038 12406
90818 75741 89589 54626 31953 70157 98242 45131 42462 21502
93407 35326 76120 57417 82111 79457 74745 14902 63876 22770
77717 31642 06105 72174 44084 00321 34406 41633 48216 90616
61302 89430 34925 68552 01747 89526 44994 67901 48901 04190
47055 93332 08600 50073
316 54 00000

11616/9322 kHz, 27-12, 0400/0420 UTC

480 275 63
18909 70972 53141 01872 03162 63731 91874 57652 29637 19020
01194 65076 28220 80882 70329 80412 30822 36673 29100 02938
34772 52797 90336 05834 01079 84765 58901 25005 42241 34993
21466 41733 79301 56805 60251 20129 72815 28059 14912 85292
57445 42838 34750 53145 34847 94651 88451 47856 04548 49569
23529 67790 37499 32738 92656 85991 21998 76722 89089 95931
36646 05085 58352
275 63 00000

11616/9322 kHz, 28-12, 0400/0420 UTC

480 391 52
89810 62261 96312 65539 31339 07817 98336 70220 44257 03472
49407 76943 71733 95212 05209 67911 18703 52324 10193 30498
22593 39750 53116 03675 29219 16328 51971 71417 03546 07342
10494 14013 29996 24829 13454 53223 82003 34074 52885 52230
65487 89743 02475 56299 65937 90071 82278 85113 53810 22559
80953 12695
391 52 (no closing nulls)

11616/9322 kHz, 29-12, 0400/0420 UTC

480 625 57
65983 42327 31497 84949 66912 58641 93980 14718 66472 29860
16274 52779 67770 81445 50366 57491 29660 17999 45901 85244
49992 83239 68819 77446 69269 22039 30264 98767 30648 24184
24168 18853 57232 54574 96978 54674 32578 99528 97939 15710
95370 83893 83385 19154 84192 38638 73472 67325 93325 23629
84789 04473 25531 35261 87285 95161 52735
625 57 00000

Test transmissions

11073 kHz, 14-12, 0827 UTC, i.p. ... 487 60 00000

9463 kHz, 20-12, 0930 UTC. May contain errors. Weak signal . Partly unreadable

480 527 48
96264 47939 34148 12908 38950 23762 32307 95041 38394 75242
43463 47052 15431 24565 06746 26795 30712 09816 76468 89635
39832 93083 79281 15850 70807 83453 16487 17890 83534 59128
54985 96103 46497 38287 48457 96213 18653 _2461 29124 5___3
95985 42107 86058 231__ 93581 80793 53268 25478
527 48 00000

10755 kHz, 22-12, 0830 UTC

975 123 60
23406 20685 54216 26724 84341 26940 33137 58289 20617 68835
86505 51142 47653 81452 54653 06529 44609 00215 87804 16170
48078 73103 25950 55385 86507 76504 96791 66570 66272 89343
05191 00175 45354 05217 12554 05392 55551 87190 29601 87755
5916 pause 9162 94970 off, 11sec silence 975 (R)
05392 55551 87190 29601 87755 59162 94970 70950 75798 51075
39118 44954 63995 42218 42009 77230 24158 85275 10211 91318
02474 28642 47980 94903 44380
123 60 00000

Full message:

975 123 60
23406 20685 54216 26724 84341 26940 33137 58289 20617 68835
86505 51142 47653 81452 54653 06529 44609 00215 87804 16170
48078 73103 25950 55385 86507 76504 96791 66570 66272 89343
05191 00175 45354 05217 12554 05392 55551 87190 29601 87755
59162 94970 70950 75798 51075 39118 44954 63995 42218 42009
77230 24158 85275 10211 91318 02474 28642 47980 94903 44380
123 60 00000

9463/9073 kHz, 27-12, 0930/1030 UTC

480 127 49
57280 65478 48539 84541 06982 74150 95390 58531 02678 47820
21963 91805 46462 93514 04276 79216 87208 15412 31636 83860
89565 12797 13273 71751 54950 52016 43084 78230 31804 90738
02343 69754 05862 93858 86429 46740 31354 83070 94896 87256
31261 26736 98583 32523 48562 85931 01237 62517 31537
127 49 00000

S06c

14382 kHz, 06-12, 0623 UTC 11222 (R7m)
14382 kHz, 06-12, 0635 UTC 11222 (R4m)
12087 kHz, 06-12, 0645 UTC 11222 (R4m)

16129 kHz, 14-12, 1020 UTC 11213 (R4m)
13547 kHz, 14-12, 1030 UTC 11213 (R4m)

ID 213 would correspond to link 70213 which was used with the callsign RNS on old M42 links, and had a regular F06 70213 schedule too. (PY)

15610 kHz, 11-12, 1022 UTC 11025 (R4m)
15610 kHz, 11-12, 1035 UTC 11025 (R4m)
13473 kHz, 11-12, 1045 UTC 11025 (R4m)

ID 025 would correspond to the Russian embassy in Nicosia. (PY)

S11a

9050 kHz, 11-12/14-12, 0700 UTC

477/30 Vnimanije
90263 49102 14006 35933 26451 95635 84882 08449 03312 58997
36185 55190 02070 00105 65124 39178 75733 37784 41832 72892
99748 02043 45166 33270 70170 93429 97794 22826 15546 49042
Vnimanije (message repeated) Konets

6252 kHz, 11-12/15-12, 0915 UTC

487/37 Vnimanije
35223 81455 00095 09338 31116 00752 20026 23154 06107 18912
78843 95323 21197 27517 66165 77095 11506 40368 21964 89756
40099 41259 49296 08593 67435 70962 31656 69346 12205 71717
64677 68031 74586 99299 10024 28126 13849
Vnimanije (message repeated) Konets

23486 kHz, 20-12/22-12, 0725 UTC

389/40 Vnimanije
29991 33200 52703 86964 21915 35809 29269 37989 79329 02388
93174 68119 79794 43804 14310 23196 70852 55002 13861 95198
14673 22885 78471 33465 31869 91656 39599 31407 62074 18163
59331 43636 58765 64283 46347 53453 79312 68312 55029 38345
Vnimanije (message repeated) Konets

10448 kHz, 26-12/29-12, 1400 UTC

422/31 Vnimanije
90640 40007 73234 56997 17112 46892 01318 99214 66301 60462
01358 61082 96144 28966 37418 30384 92594 02280 43261 28601
96549 68830 37759 83156 73699 98572 45825 43589 95125 22321
23476
Vnimanije (message repeated) Konets

5371 kHz, 30-12/31-12, 0830 UTC

379/37 Vnimanije
48735 56331 46880 88188 91853 39371 80982 95624 13242 30132
12226 37614 95826 16208 00581 06505 91181 01882 16292 37592
09532 19450 79742 82390 48630 20813 38137 03216 88216 20982
09457 32721 81738 37612 99074 11455 06996
Vnimanije (message repeated) Konets

18249/15949/14549 kHz, 03-12, 0200/0220/0240 UTC

295 295 295 1 675 89 675 89
36695 70398 61094 32662 30934 96075 73402 04510 7070 01500
68897 92412 68542 03431 91432 52250 21802 03149 58544 57827
16077 70100 31945 73967 48826 71170 03587 09530 78004 83465
61461 96138 11488 01480 52723 35474 74514 45809 15139 77456
35474 74514 45809 15139 77456 22960 57896 51095 61581 93599
82179 28970 64412 13886 29249 42187 46120 64228 02293 44407
89030 61370 02661 39433 27184 09438 69398 30468 01692 43657
51758 36788 13873 39878 19708 26826 13928 09162 40547 05579
06026 98256 63053 14374 19718 74669 04584 81535 48164 92510
21644 36360 95436 70464 000 000

18249/15949/14549 kHz, 10-12, 0200/0220/0240 UTC

295 295 295 1 6457 116 6457 116
81863 58545 18766 05620 52016 27197 00660 59784 72981 25220
99205 83930 26000 26052 68054 49217 54511 49741 38949 75907
81979 93967 92175 78999 36883 03214 29541 49657 01552 09408
70641 14691 11926 12147 44535 85857 41462 56677 62812 62722
46338 00034 81016 39335 71466 05729 00062 35799 13012 90029
85002 04469 21718 94305 63267 51902 03817 39255 98608 87398
52129 48406 55987 26433 50839 74743 70485 12926 86145 54424
58584 91254 61395 19432 02330 14815 47758 38750 76920 59519
05088 44972 35568 69786 36650 63490 52654 54515 17394 88777
25304 10068 89180 26687 18282 97814 85683 88434 79485 31358
38071 74412 80370 38138 61883 65451 35717 90438 56949 88449
78062 14348 56311 39768 64430 16020 000 000

18249/15949/14549 kHz, 17-12, 0200/0220/0240 UTC

295 295 295 1 400 74 400 74
64261 37416 11342 25328 48083 02950 64402 73507 84486 01710
32224 59990 75722 93806 21884 63018 71291 93395 55373 47389
38017 77407 88396 32576 55896 80822 70619 17260 78580 30791
82023 15096 88710 64607 80335 92359 77313 5455 16593 5391
03994 84211 72971 22499 81161 49032 46669 84215 31308 11907
82224 17194 34469 07175 06631 82527 65865 32475 25626 88799
80242 73550 67856 55012 44904 44717 23714 24321 07319 58127
58022 65791 24374 52288 000 000

18249/15949/14549 kHz, 24-12, 0200/0220/0240 UTC

295 295 295 1 7854 61 7854 61
68753 94014 45780 87882 67928 28033 54435 59239 16095 64171
46099 04374 76688 06747 03320 73446 47370 56562 23320 65172
05465 83420 11814 29395 78794 76050 47621 12407 55729 70230
71782 56110 29651 85112 96482 06556 22311 49816 64695 68788
52323 92379 79135 79675 96858 79512 77860 64428 97397 43958
05839 50506 56719 02229 42739 61911 95317 40293 78778 36636
15762 000 000

18249/15949/14549 kHz, 31-12, 0200/0220/0240 UTC

295 295 295 1 633 112 633 112
75846 68792 30515 13941 03976 50406 36543 67116 13544 03767
54485 53727 26611 66985 22688 75608 76744 78062 11903 19785
10829 59162 66202 71102 38098 23206 64525 06404 01903 37447
84831 63297 91250 20903 99907 14623 61272 86433 54461 54813
69905 32989 91941 74248 96421 68319 02590 11477 88907 74078
95356 63181 58866 13997 81136 95073 85516 03699 37399 29410
64821 06687 60464 93534 43692 32980 06314 48093 44204 76591
59940 12868 32161 07036 29690 28690 56973 91237 75299 32162
03337 86448 58899 45011 70787 88667 25856 26482 54767 91146

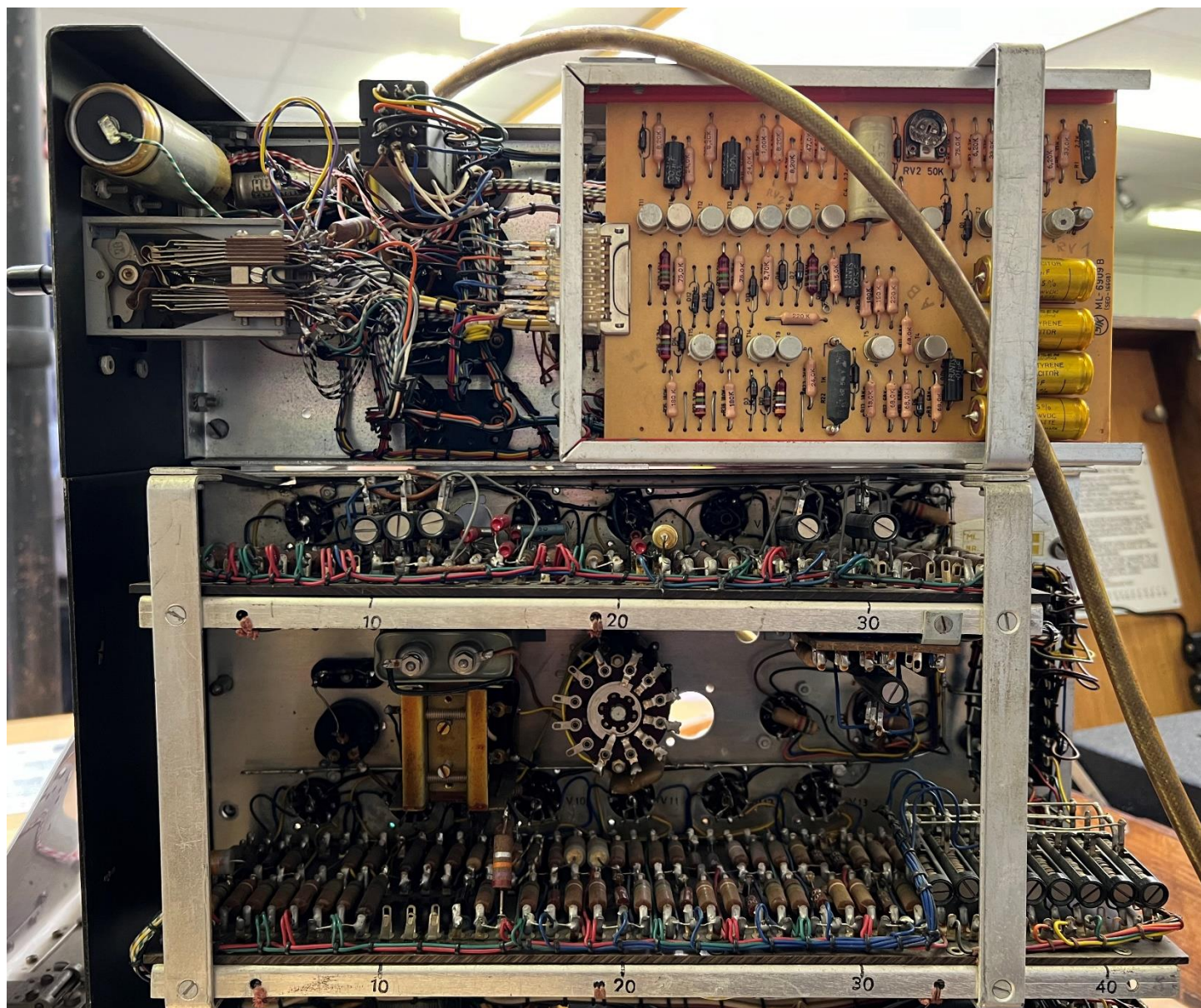
95889 86483 71332 80690 47808 25471 16923 74962 28479 76632
01426 47068 62305 63117 17681 10938 00538 09193 38474 43168
89397 95316 000 000

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

13974 kHz, 23-12, 1200 UTC New Star Broadcasting
11430 kHz, 23-12, 1300 UTC New Star Broadcasting
13974 kHz, 30-12, 1229 UTC New Star Broadcasting
11430 kHz, 30-12, 1330 UTC New Star Broadcasting

VC01 – a.k.a. Chinese Robot (Chinese Air Defense)

3792 kHz, 23-12, 1155 UTC
3792 kHz, 23-12, 1301 UTC



German WWII equipment

MORSE STATIONS

M01

5810 kHz, 02-12, 1500 UTC. Poor signal

197 337 337 30 30 = =
49586 10987 28476 09890 48756 00908 17655 39908 16524 44765 ___25
82 _7 _4_ 25092 _____4349 5434_ 97816 _3298 23415 62599 46738
67513 11234 21234 31134 41234 51234 61234 71234 81234 91234 01234
= = 337 30 30 000

5465 kHz, 03-12, 0700 UTC

197 734 734 30 30 = =
13214 32174 81875 92826 77862 90325 64512 94678 25073 45675
11890 21890 31890 41890 51080 61890 71890 81890 91890 01890
41567 42285 43567 44567 45567 46567 47567 48567 49567 05670
= = 734 734 30 30 000

4490 kHz, 05-12, 2000 UTC

197 755 755 30 30 = =
47586 75643 65689 09821 36754 76854 32657 89321 90900 98246
46758 74635 26371 89059 83725 45387 82754 63710 98365 74657
86743 65783 90987 65741 53647 85967 46372 65748 93826 77711
= = 755 755 30 30 000

5320 kHz, 07-12, 1800 UTC

197 8494 eee 849 849 30 30 = =
84003 77293 73662 83998 28836 19927 38473 73029 73384 72018
83992 63902 73884 66173 00892 00386 38820 73644 18300 37492
88300 38476 73392 73944 62973 63384 66184 63877 99384 73309
= = 849 849 30 30 = =

4490 kHz, 07-12, 2000 UTC

197 854 854 30 30 = =
64885 67354 76533 87697 63322 99857 85533 78990 65008 65587
77564 76900 65877 53376 67360 64487 66980 61100 65537 78553
88907 75534 09866 42254 77946 63355 89005 66343 78645 77958
= = 854 854 30 30 000

5465 kHz, 10-12, 0700 UTC

197 823 823 30 30 = =
83746 16348 94857 27458 93846 23543 72639 01837 93759 12958
94853 82739 71264 53829 46573 57689 83742 17394 81735 12534
17365 13475 28476 39584 72649 01839 83756 25386 17263 54321
= = 823 823 30 30 000

5465 kHz, 17-12, 0700 UTC

197 557 557 30 30 = =
73820 69539 26785 39857 42315 67089 11753 80895 34016 09050
67329 77329 87329 97329 07329 17329 27392 37329 47329 57329
15050 25050 35050 45050 55050 65050 75050 85050 95050 05050
= = 557 557 30 30 000

5810 kHz, 23-12, 1500 UTC

197 601 601 30 30 = =
88574 66637 00194 37653 09867 57465 22132 43421 75869 00989
99009 00656 00456 32143 76530 03460 00201 14253 22342 10080
00109 00900 85746 73621 99607 04906 93847 56370 01230 01015
= = 601 601 30 30 000

5465 kHz, 24-12, 0700 UTC

197 101 101 30 30 = =
13342 22857 46354 88867 58676 88431 32067 85637 48593 76854
27483 74653 72859 99687 75643 65746 58675 32143 77586 07900
00430 56470 27463 11500 00432 56470 27463 85768 00900 00321
= = 101 101 30 30 000

5810 kHz, 30-12, 1500 UTC

197 369 369 30 30 = =
59867 10989 15345 56780 49878 13243 45654 68900 30987 16354
67876 40098 35465 12321 45545 30989 57687 36547 10989 57677
66876 45652 10098 49878 10989 47654 14234 49877 17645 30988
= = 369 369 30 30 000

5465 kHz, 31-12, 0700 UTC

197 903 903 30 30 = =
57637 10093 47653 39393 68766 25434 10939 16645 29367 00633
43766 03933 63730 10946 63756 39309 47756 24354 59370 33763
47653 50973 47665 26545 10937 49367 10903 47645 24323 12300
= = 903 903 30 30 000

M01a

4281 kHz, 14-12, 0923 UTC 281 11212

M12

6792/5892/5092 kHz, 2000/2020/2040 UTC

6792/5892/5092 kHz, 01-12, 2000/2020/2040 UTC

780 780 780 1 3175 238 3175 238
89956 27018 45953 18588 13382 36302 18938 39946 81620 70703
51497 45799 06041 07672 89124 19835 96210 41269 88691 51891
96578 49989 97025 49829 00188 07393 98271 65761 45159 31030
78322 83276 17717 29535 02405 83739 57000 46359 81804 74895
52578 86846 36634 06742 75144 89781 62637 67290 27883 08339
93420 91002 14081 64475 13017 86010 68668 74060 95352 74294
28956 73802 44769 16253 29105 70805 83881 48176 05033 63785
85015 17305 75777 59848 52872 64661 25710 31744 68120 95318
06388 64810 23759 77999 36852 36283 50443 22825 53961 46842
17486 46884 56210 36080 07818 18528 78948 81760 94865 65211
86702 89715 90578 50161 38516 95168 65643 90435 81024 84980
78688 12766 55961 78651 77199 84872 33310 68612 88390 47639
81094 98217 29776 95221 80825 06585 38852 69948 92167 60119
90353 47934 64486 23771 77790 01546 74969 18393 94301 83480
50263 80325 29002 65065 03938 97665 39816 48661 91300 63851
15163 02402 46611 72797 43232 34749 68106 24990 74810 88112
04306 29343 47763 28938 12110 66905 32795 61997 99673 63727
58302 03204 46497 75651 68402 63258 16320 53276 65382 68901
07037 41405 93064 96775 76694 46307 41000 56827 57084 04975
76796 70568 97360 15991 79331 10492 21820 14297 13597 0x424
97371 85962 72509 25896 02273 76688 79774 43092 46201 21924
11897 40506 43038 65384 88437 43125 33145 83866 00518 89592
92080 47806 47538 68379 85932 31654 21948 66855 27610 88714
24275 06677 55347 94965 41508 83311 30829 03245 000 000

6792/5892/5092 kHz, 13-12/15-12/20-12/22-12, 2000/2020/2040 UTC

780 780 780 1 717 173 717 173
72971 91241 52719 96834 06769 12721 53142 59034 34348 58133
72664 76307 64322 43136 25808 92441 38823 38385 58296 77422
66670 72619 32378 12501 66454 00064 33718 38007 68409 10351

26748 85867 30128 42602 30723 45623 92151 79380 47678 50932
67029 44127 93906 37864 04536 66378 87667 41457 13193 04762
13614 37706 05877 76851 62290 61232 72665 17745 72419 33831
95172 94731 48579 61899 74553 84788 16126 42843 73701 63583
42176 89122 48409 17153 48319 95954 78905 67516 43040 95087
86545 70540 59546 88727 99924 71190 34317 18641 61270 54744
32490 79510 66658 22763 30056 19508 26591 55149 81287 69253
53683 28780 73385 62779 07539 70083 60698 09358 40306 9335x
13438 54348 51584 44295 37093 28621 75016 62071 02255 85962
36920 61502 51910 58850 45503 32097 37556 99951 45810 33339
26143 70859 05528 30615 59843 27741 91061 74469 72612 55439
22703 48462 54093 17810 77589 28466 36287 73940 84599 83624
59323 44250 42266 79520 18452 86839 54501 02103 28259 90868
67904 37333 01148 06095 53562 03944 16295 80077 84400 23635
33360 10829 42033 000 000

5832/6832/7732 kHz, 2200/2220/2240 UTC

5832/6832/7732 kHz, 01-12/02-12, 2200/2220/2240 UTC

887 887 887 1 405 120 405 120
33406 44645 10202 59177 73015 04077 61638 70631 02287 05928
45489 89630 39130 62298 39901 80536 49446 86696 08832 17000
70377 61359 86903 52939 99630 36442 61055 98181 91115 48550
64740 78279 84064 56904 76284 832*3 67506 36640 24479 20703
21746 51934 43420 51988 94592 50534 78034 64597 54327 42111
93697 14337 30935 97567 51664 34077 36143 08089 42514 29368
69864 93166 20567 58967 90608 70792 46884 97002 58616 31516
56444 48722 59405 42718 68395 89228 12336 89863 05063 13235
85283 02281 63912 20104 02302 83955 82387 21763 24284 39865
37285 16183 05216 87925 80683 71835 15935 35036 74480 22502
99165 62839 55110 41025 43063 82522 21869 80917 42684 64595
18830 11789 84159 01474 21346 75289 43392 29396 58323 70552
000 000

**5832/6832/7732 kHz, 08-12/09-12/15-12/16-12, 2200/2220/2240 UTC
15-12, 2200 UTC. Restart after group 3.**

887 887 887 1 5090 86 5090 86
72354 19281 77376 23677 48744 05080 24935 26829 34780 64480
70596 75823 12967 90630 36997 66632 02864 37510 58135 14277
08017 38808 43336 02347 18157 22183 49219 68626 53638 00273
96475 13186 21794 47496 18260 11234 09612 70540 35939 91958
38354 61291 12828 80011 91089 39905 62113 30382 15292 78860
30646 99566 68650 64968 95018 53957 36566 67735 77333 94956
95897 02267 75991 08710 81700 18468 44685 66884 04850 61197
30210 58904 56887 56275 82021 94289 67438 40845 93218 00958
35394 46106 35795 67374 88086 23322 000 000

5832/6832/7732 kHz, 29-12/30-12, 2200/2220/2240 UTC

887 887 887 1 333 95 333 95
66116 68533 85483 38027 23949 69203 42409 79663 40923 65132
05234 67250 02554 04220 37916 31801 83490 04255 54770 97533
48250 29529 34796 02850 39565 72412 63702 90913 54963 56126
69857 63128 90062 51480 12285 30915 10517 96202 60223 71903
10015 47405 25707 14458 52431 02817 11996 91851 20120 76047
61600 85781 97057 22772 96641 97097 54119 55547 89519 25409
51479 09434 75012 49813 84091 43611 13361 59029 06684 87373
07289 25011 35137 25681 50780 11515 23148 64538 75564 66359
76954 25498 34794 81217 87776 36059 60316 23420 91219 71769
86995 89234 28044 93337 24342 000 000

11435/10598/9327 kHz, 1800/1820/1840 UTC

11435/10598/9327 kHz, 02-12, 1800/1820/1840 UTC

938 938 938 1 7587 71 7587 71
93200 67448 31264 35892 37566 31024 21405 17812 10697 82978
98478 17647 56106 17203 57771 31688 01234 37713 30336 58536
10943 20265 01866 33852 49069 53406 45226 02802 20163 22762
10902 10248 86600 58696 14730 38437 26774 45205 99424 53057
36791 62608 36865 19856 06647 80494 97864 69768 18212 31772
64597 70329 57758 57128 22274 13423 02768 42986 66472 41636
59580 32746 35098 29073 28252 67540 97157 07964 24423 05589
41993 000 000

11435/10598/9327 kHz, 16-12, 1800/1820/1840 UTC

938 938 938 1 6440 73 6440 73
56644 48544 88143 71990 57332 91718 67192 53247 26220 97893
50467 82214 30357 06127 39517 84123 12883 63513 20194 23749
26619 64289 41073 02521 70984 27675 57721 56686 10729 10353
97432 16866 98533 63768 46669 73683 13046 72409 87917 35483
83778 21834 79035 57075 39669 76485 29744 86353 64062 87561
54739 96171 66972 82586 94539 88041 90760 82445 15546 95233
61792 08330 06661 58273 57025 39179 35605 83749 99045 58921
02598 81448 17646 000 000

15909/14609/13909 kHz, 1400/1420/1440 UTC

15909/14609/13909 kHz, 04-12/07-12, 1400/1420/1440 UTC

969 969 969 1 549 76 549 76
15456 65689 11690 54194 91236 43940 64472 08990 58352 32172
29616 50984 40958 91040 35325 18276 38120 73915 76163 22600
51616 45831 13895 40405 79396 76858 25765 82442 51804 31928
05737 05545 36028 41020 84583 11270 60939 25465 24526 27948
49390 43379 32567 79690 54769 98648 25707 67197 25702 68724
06458 75663 55309 95394 26182 48414 54082 40267 09675 75341
09869 07106 08247 05491 57478 08337 03575 52649 67665 54249
95366 24727 73549 82769 81332 72555 000 000

15909/14609/13909 kHz, 18-12/21-12, 1400/1420/1440 UTC

969 969 969 1 7232 71 7232 71
49606 34196 99379 93078 80505 21619 22824 94286 39700 72990
88060 13550 10141 52530 15287 68729 43931 87766 98970 59002
88053 81400 07432 96067 80610 38977 01638 99773 80804 44690
89302 33048 03887 23810 75729 33121 98651 24849 23586 31546
56696 31867 60866 59699 86448 87066 70901 59166 92550 08948
46639 90679 61330 15108 38408 88589 99888 23335 03722 01953
98968 69059 26134 65344 66663 54034 99842 69494 40199 29557
59035 000 000

15909/14609/13909 kHz, 25-12/28-12, 1400/1420/1440 UTC

969 969 969 1 8066 89 8066 89
25388 67970 30809 37025 98343 29021 82387 01638 14172 46718
45180 45530 13088 47920 17512 54977 64520 67534 61666 31999
66222 10996 37024 07545 07200 23420 36713 97731 34673 44563
59413 00705 88983 03695 86529 61688 88637 30082 65082 97817
80704 78087 98003 94977 43621 18919 37609 49615 72566 13172
59266 83081 76418 82776 77520 64637 96392 41835 13038 02899
83830 39806 50023 01682 37782 09739 72297 08370 86105 58931
64148 25903 80178 45077 92944 63557 73756 03715 53132 13919
19250 59621 00808 15510 47198 32565 67322 18802 58788 000 000

9134/8134/7534 kHz, 2300/2320/2340 UTC

9134/8134/7534 kHz, 04-12/07-12, 2300/2320/2340 UTC

457 457 457 1 485 93 485 93
44623 44768 65395 43281 81578 27362 58758 59715 76656 63712
03538 22078 20712 39016 26474 71722 11226 18015 01972 47140
95140 32371 97066 86371 74560 24009 79208 18560 28621 98569
97238 37016 75015 37869 15046 04651 05204 37025 42449 73544
10441 98545 28335 29237 77185 71583 17239 46434 52600 13329
58599 80906 55334 15353 35882 98609 58223 75360 94074 30344
80461 09683 23858 20868 84878 01461 90749 84943 84684 70291
66776 10739 88816 85509 39461 82812 17421 26979 76342 18432
85639 49789 66683 12480 06144 60106 45681 67034 78210 24074
10596 31838 91459 000 000

9134/8134/7534 kHz, 18-12/21-12, 2300/2320/2340 UTC

457 457 457 1 614 85 614 85
28759 87605 48124 60229 20770 14009 95460 60037 77002 64355
80054 21697 98117 80254 80754 73827 56871 12836 81948 39375
67745 81171 35493 92147 55350 63221 23152 91506 26943 88387
13019 79738 46675 38176 14393 47336 20594 43183 65790 91070
10418 18448 57414 23547 28805 38226 37691 33644 47015 79964
00097 55618 21980 02021 08795 49815 64743 31284 29412 00794
17676 64087 12537 98505 50366 96039 75140 74982 86954 59392
79748 39504 25203 45850 84049 61523 18561 56202 42446 58164
48735 05174 86253 03587 61617 000 000

9134/8134/7534 kHz, 25-12/28-11, 2300/2320/2340 UTC

457 457 457 1 248 111 248 111
85286 22974 13697 06749 46465 95131 04569 87533 95719 95271
53027 37988 81423 53896 32304 38125 95772 52787 96861 93627
35834 77909 12512 91309 76267 10188 25939 63781 78791 32504
49148 01654 98309 26556 62478 29427 83256 31514 05850 09222
68964 24756 74986 72707 28828 69064 12874 98026 31389 04546
89463 72356 51037 66690 15222 26133 94342 67718 88716 57832
23444 76489 69692 79489 34890 78737 98658 75052 28784 33894
82263 04512 44123 83572 54443 46478 22854 15748 66198 42669
22804 10515 15656 03523 31548 03283 41197 28720 43805 52699
44718 75551 80551 19059 49306 71762 83989 60771 18322 27945
50619 48838 56971 85486 68569 47078 93299 58516 01875 93146
78516 000 000

10174/12174/13374 kHz, 0700/0720/0740 UTC

10174/12174/13374 kHz, 06-12/09-12/13-12/16-12, 0700/0720/0740 UTC

113 113 113 1 3400 125 3400 125
26964 73454 83835 71330 01604 76856 76718 02810 15739 57806
83840 96153 92011 58364 72033 23764 85554 38769 26600 97494
85676 47244 99848 20943 90473 09499 61165 93121 61476 96593
20692 97882 10435 03293 50155 10073 33653 91885 56064 44235
71053 37249 18587 19231 48774 19680 64652 69481 23655 44475
26034 95437 84970 38398 70777 09987 85207 17704 86780 41168
34314 96658 15279 04074 36845 00172 37369 09780 74455 44976
69726 09870 46277 55627 92031 50791 45130 37012 60381 77919
15241 68525 34768 24701 59214 72628 95886 32846 45056 05172
94302 93425 94796 94757 56567 76917 87093 85972 04918 63480
76753 43959 24605 83529 08318 07159 99978 99095 16489 60243
29880 90425 34281 45431 13771 84153 20264 02255 15624 74749
40878 89108 08346 79669 97105 000 000

16234/17434/18234 kHz, 0800/0820/0840 UTC

16234/17434/18234 kHz, 06-12/10-12/13-12/17-12, 0800/0820/0840 UTC

242 242 242 1 4043 126 4043 126
24494 73675 20514 89476 99647 14248 66516 62352 81981 61704
67899 43388 72515 41386 68609 35334 69067 62091 78159 86594
05378 81596 98296 38743 22698 55445 94622 98394 49807 21339
73269 67151 39029 09096 44588 92890 38097 75239 52221 33346
34839 31660 10562 93163 58671 61219 03423 19084 91078 09991
24888 65177 25933 86817 58887 69323 39318 86248 54026 04372
99669 25294 62696 55965 90461 47935 71820 28100 72478 19992
81220 35272 67173 39090 98153 26898 16243 98338 60752 38322
57824 97431 88862 10429 49054 14382 38524 25460 76598 07292
23425 37929 88692 34233 61256 32967 88376 50682 28705 24428
15016 57754 12956 74557 32131 48606 22379 36408 63482 27010
92241 69801 99555 28470 09920 82983 96922 56324 67544 79713
63784 04894 10973 29705 97898 000 000

16234/17434/18234 kHz, 27-12/31-12, 0800/0820/0840 UTC

242 242 242 1 9598 91 9598 91
49342 13070 17966 36175 51403 90533 98415 63364 35936 14713
86345 21280 05589 03707 23137 60581 44888 24431 94651 81220
00437 98578 03004 62046 56102 18021 63752 59055 24139 57485
22358 73768 87678 35002 11281 57417 29943 66503 75287 83805
81871 56189 25660 97630 62703 53595 36989 43960 64867 00016
65246 87331 59372 75061 01696 48956 95134 44996 03455 90004
67816 50334 67471 83549 36955 69663 86848 24435 03337 88519
81665 78766 28284 10556 40943 56077 88153 75739 47246 89367
04907 29591 95176 62347 72911 76096 69065 82298 72035 34866
59352 000 000

13386/12189/11491 kHz, 1110/1130/1150 UTC

13386/12189/11491 kHz, 07-12, 1110/1130/1150 UTC

725 725 725 1 6035 92 6035 92
92462 17977 15500 29406 02604 15903 52551 73469 78924 03456
53511 76411 58931 99083 85809 13464 70437 16434 09243 99504
02510 05529 32873 43569 35632 83369 28314 55267 61130 81408
53900 46198 71827 58638 91983 24234 78374 88300 83370 52865
95118 44078 94841 87089 75520 67188 96684 16180 38520 44851
72967 39812 63188 28090 15185 89225 29670 76901 17064 06647
63859 10119 37659 66480 58088 45545 22849 80079 75807 40567
31842 72975 55657 09250 66782 00014 30872 04422 61313 28236
58951 64011 62822 56937 65034 52550 18659 40265 53205 42097
58969 97616 000 000

13386/12189/11491 kHz, 14-12, 1110/1130/1150 UTC

725 725 725 1 4094 91 4094 91
36429 95209 68518 22780 87567 67939 67811 15473 32721 05631
21003 60842 26812 99306 78957 50247 00526 57885 06951 63501
02674 41438 68371 11646 21556 08440 24227 83872 32498 23239
56139 86103 57025 15003 73823 97563 66145 53938 21736 61147
73201 17800 10577 86570 85710 56556 75186 34023 74927 26068
06438 16096 52232 58603 35232 36438 95875 11894 73168 41502
39934 53005 51716 94570 40656 04657 10314 96430 80749 56998
06707 32364 06523 57566 39271 42260 34677 52341 72799 14403
71334 04083 00660 60858 30159 01279 98132 10326 01400 75183
16820 000 000

13386/12189/11491 kHz, 21-12, 1110/1130/1150 UTC

725 725 725 1 9901 93 9901 93
46970 57435 32701 31549 22801 29023 53192 49407 99714 78592
42271 27858 67299 01787 46470 25764 33099 21380 61920 16724

50628 88578 70204 27307 87870 36269 67418 36701 45693 68877
33745 81925 15872 95010 60292 21943 47495 20050 17459 87873
17761 21812 62480 40819 94419 85604 52102 60782 12823 93544
78684 62572 74777 31364 33087 76270 59256 66366 34955 74150
79900 48707 00877 72211 77700 93439 34672 50141 88286 36278
51042 01901 13404 53152 70822 95847 21654 14242 30130 43140
94650 53012 42538 96962 01638 69487 63437 74149 84117 15740
83419 88374 58136 000 000

13386/12189/11491 kHz, 28-12, 1110/1130/1150 UTC

725 725 725 1 7821 91 7821 91
27334 76227 29851 89327 96882 66269 83690 74960 75483 47164
78192 59508 13639 83953 30720 32958 84511 02774 89878 39094
07620 60899 39019 68428 56205 42037 31008 08205 04881 89672
45808 45676 39515 29938 75368 18486 56302 72913 51541 08628
89284 82127 61701 76497 90793 50858 21107 53453 50647 34433
34649 82348 83644 40725 42862 84220 15524 85609 30974 14103
37278 16920 49047 38396 83632 42110 32297 43733 15305 39591
21144 90944 84826 16163 01064 39578 46107 20857 33285 67133
68861 10590 05150 13843 18590 68117 58242 68585 24847 82683
39692 000 000

11129/10329/9329 kHz, 2310/2330/2350 UTC

11129/10329/9329 kHz, 06-12/10-12, 2310/2330/2350 UTC

133 133 133 1 7835 63 7835 63
56670 25739 10278 23442 11807 44383 02876 78890 91216 85669
28293 41596 77115 61135 96366 82856 94293 74567 56003 51629
98643 87344 44730 33378 18470 72614 39620 10524 75037 22370
18597 17548 26541 20778 67003 42896 01241 20852 85358 88312
04442 65058 33345 04870 95485 18037 70466 33307 48451 17296
09033 88248 88324 22305 87356 57431 70650 39751 66054 08463
93639 14336 19992 000 000

11129/10329/9329 kHz, 13-12/17-12, 2310/2330/2350 UTC

133 133 133 1 723 52 723 52
98290 53809 52910 30720 60925 39761 17987 44265 19486 97575
78607 82013 51408 86544 83113 26935 36352 17579 59800 03582
07587 83201 50409 16956 22594 33315 56553 69987 80386 06609
87799 17854 66993 35396 70029 96870 18993 86904 69939 12626
97047 19420 19916 06019 61691 19695 86325 66295 22482 26391
28764 76732 000 000

11129/10329/9329 kHz, 23-12/31-12, 2310/2330/2350 UTC

133 133 133 1 243 217 243 217
59347 12457 79371 30081 54259 98566 23274 76912 23791 77226
87507 14880 57108 36923 64508 76806 63068 98982 48718 71834
96759 72713 26807 93101 43067 05535 13562 33795 45651 98545
50456 00475 94441 22299 27642 68360 56524 83357 75190 44413
02125 43367 09715 57160 78256 65313 18756 36172 15846 34056
44278 06865 28935 61181 94464 18551 99253 75444 43976 85126
08262 65637 60982 26176 92950 34518 75618 20415 83983 02575
86555 58084 23727 02541 31002 01945 71568 86692 91381 70960
45341 66988 29958 66122 84750 32875 86987 65451 14291 36871
92023 71701 23896 63798 10454 63577 74391 93484 02849 24809
78779 06485 56559 68014 67903 47687 76837 23392 01282 00291
35879 29068 53314 31257 65297 40696 27095 45116 03337 59118
60054 32347 20733 99909 24889 88950 83586 18752 98573 25055
76473 58057 15512 63503 73727 69513 74688 53655 66362 20280
92358 42784 87082 70858 34042 78773 53541 38142 95489 24947
39941 09081 37753 76132 62060 27288 74502 04778 04491 63891
78068 83380 63646 27346 21049 65712 23775 48136 68882 45164
11442 29307 79804 11749 61738 60640 67150 29348 19538 74165

62290 69383 85588 71165 63303 77224 77321 55129 55820 27145
94814 34267 04094 72421 56172 31934 26962 42738 18344 14072
19342 81974 60139 70232 72625 04540 57045 73047 42309 95249
11310 11976 65567 55493 68333 72322 75715 000 000

11129/10329/9329 kHz, 24-12, 2310/2330/2350 UTC

133 133 133 1 7388 98 7388 98

76021 55904 90578 20640 06267 85553 04577 00963 72720 19019
84185 11724 64753 88983 18619 11632 70654 60590 27170 07970
51222 26388 87173 03622 24304 88149 31409 01134 78852 69535
46692 11247 01366 21300 94791 94138 10184 97817 03844 54958
23814 22278 97823 28937 77638 18552 84360 68652 68625 75555
91271 51651 80544 02464 77455 87969 66446 69353 44078 40223
87245 40017 15064 30742 63490 19775 02071 29983 31488 54141
13926 19392 49200 98778 30321 59445 48554 23539 64112 21403
41202 56084 66797 12956 77852 46251 75004 73632 13173 09728
24413 35393 74369 63830 78846 66256 78489 24327 000 000

M14

12211/10243 kHz, 01-12, 0500/0520 UTC

952 806 806 59 59 = =

82446 11459 85451 67305 97050 78487 25690 69256 87078 12307
24815 73125 38181 79237 79740 65020 63587 33873 80687 57353
06878 76710 18115 17230 52673 51341 87395 83603 81172 60876
89693 65392 27467 08289 52462 37737 31587 90388 18017 78589
90204 00078 73603 12825 45931 16608 21411 56057 75159 88508
11968 75354 60362 38875 89347 09028 57822 47716 21631
= = 806 806 59 59 00000

12211/10243 kHz, 04-12, 0500/0520 UTC

952 713 713 64 64 = =

30863 68287 00933 64340 70209 08272 90055 20709 29560 11232
29166 04128 17516 63028 36803 28448 84159 93242 31741 16920
67600 76680 84284 77390 63677 50610 46168 70548 60980 58643
13754 44694 08402 57230 04228 35436 07391 45680 49460 53766
46100 05657 37241 10967 17622 61086 54554 53750 89484 94406
12598 08106 16610 80112 58230 55269 14918 21513 01525 88259
37763 01653 14129 22421
= = 713 713 64 64 00000

12211/10243 kHz, 05-12, 0500/0520 UTC

952 713 713 65 65 = =

25808 14648 78736 72596 03713 67134 42231 26516 11303 73870
13872 44745 53654 97022 63457 46077 48729 21394 64978 25343
70068 86642 51468 96421 05602 00071 72692 49415 87257 03414
22846 57913 71051 92070 30467 97304 72368 10218 27745 60045
86092 70237 41404 78853 46291 69895 72359 93740 05148 05717
56338 23832 35803 05986 22629 29910 88824 31816 93178 78616
56969 19721 89200 44254 27937
= = 713 713 65 65 00000

12211/10243 kHz, 06-12, 0500/0520 UTC

952 143 143 57 57 = =

56251 59684 74973 68838 84165 10367 11985 12030 91471 07077
13505 94924 09687 53068 99196 07816 25102 28993 93291 51711
17060 78026 18964 53986 54921 84449 59997 20444 77161 62876
75669 53505 01030 00315 79799 91187 36218 18242 19893 46578
00966 46894 17320 52477 64046 28946 40916 61071 94770 19801
12212 58545 76474 46778 73268 64112
= = 143 143 57 57 00000

12211/10243 kHz, 07-12, 0500/0520 UTC

952 768 768 54 54 = =
65461 66457 72303 47005 78550 04910 97074 70812 84368 02961
07427 99526 95017 03224 01952 28710 76378 50417 55769 16661
08386 11470 14838 74684 30162 19954 11839 15283 24701 18267
70833 44189 22799 95998 92877 07192 30897 47937 39783 27668
12553 00138 58201 95796 78196 77493 11241 95351 62893 11245
09781 29043 96760 09880
= = 768 768 54 54 00000

12211 kHz, 08-12, 0500 UTC

10243 kHz, 08-12, 0520 UTC. Off after group 37

952 410 410 51 51 = =
65461 66457 72303 47005 78550 04910 97074 70812 84368 02961
07427 99526 95017 03224 01952 28710 76378 50417 55769 66661
08386 11470 14838 74684 30162 19954 11839 15283 24701 18267
70833 44189 22799 95998 92877 07192 30897 47937 39783 27668
12553 00138 58201 95796 78196 77493 11241 95351 62893 11245
09781
= = 410 410 51 51 00000

12211 kHz, 11-12, 0500 UTC. Problems during the callup: 952 (R4m) 2m22s silence 952 (R1m) 376 376 58 58 = =

10243 kHz, 11-12, 0520 UTC

952 376 376 58 58 = =
83393 39919 88143 66568 16702 39969 57031 59559 51274 95194
16349 29023 47639 45605 28029 69071 73608 91468 74447 71737
65090 66110 66156 84381 06918 08810 50104 69555 25884 98724
23033 90734 13174 35795 79742 72373 18376 79557 50896 07709
82262 81803 10073 12762 00533 74024 54744 49958 35690 95578
90861 69829 19265 73521 75743 44202 11545 90028
= = 376 376 58 58 00000

12211/10243 kHz, 12-12, 0500/0520 UTC

952 804 804 63 63 = =
29597 08847 15128 77077 66514 72057 15979 63835 05302 53371
71462 45879 38963 40356 07088 64120 13827 48506 94628 23973
64760 66102 20201 54534 04794 71058 62215 67066 11314 30669
83872 86247 76042 20205 69904 52602 10955 21298 62234 19568
27353 86045 74251 93624 30272 77774 88393 90931 95398 24408
66704 08898 20702 45359 29083 36145 69959 37905 28879 49271
50359 33966 80555
= = 804 804 63 63 00000

12211/10243 kHz, 13-12, 0500/0520 UTC

952 637 637 51 51 = =
35754 64949 55737 73224 00761 75908 48653 70871 66758 56713
16829 82800 33118 79396 71281 93363 42957 41351 83039 52992
99877 92793 39194 52193 06685 74085 48262 42124 37005 17605
68306 68934 75767 93862 56247 14071 89455 06537 61797 57719
12085 66123 14473 07589 57853 96893 77099 60202 96367 56827
64262
= = 637 637 51 51 00000

12211/10243 kHz, 14-12, 0500/0520 UTC

952 140 140 52 52 = =
53206 77665 46518 87738 24575 17030 18744 39869 10057 17719
34185 05073 16182 49558 02874 13067 64359 58735 26427 00337
53987 02073 63158 04418 77603 41556 94449 64527 67781 97547
84588 89470 80447 84131 51240 78784 44317 75028 88759 08033
31123 73507 11523 14196 26339 84748 09456 42108 05077 14072
32973 37852
= = 140 140 52 52 00000

12211 kHz, 15-12, 0500 UTC. No transmission

10243 kHz, 15-12, 0520 UTC

952 387 387 56 56 = =
50365 30340 56758 85549 57942 11832 14547 87770 43555 52947
88038 07972 74180 83774 78616 82821 56971 34087 80247 82623
20762 09662 04797 56621 36356 62436 76577 24496 67761 15455
00824 37495 71575 28535 35780 57621 86700 15597 23095 28334
81578 49588 56190 35185 51134 15944 91321 79837 80609 00523
30993 15900 18484 22946 34423 20009
= = 387 387 56 56 00000

12211 kHz, 18-12, 0500 UTC. Largely unreadable

10243 kHz, 04-12, 0520 UTC. No transmission

12211/10243 kHz, 19-12, 0500/0520 UTC

952 183 183 52 52 = =
82774 76337 29892 59021 99654 43791 24511 29313 89345 44643
96932 62986 69343 71832 14070 80712 48541 72518 00275 22003
88247 46979 00569 05097 20352 33152 72085 27953 71046 19002
14686 65043 63553 49914 76563 39642 98296 23295 96482 76280
33948 87559 66498 63075 17795 87714 29579 78595 38858 24693
44577 62980
= = 183 183 52 52 00000

12211/10243 kHz, 20-12, 0500/0520 UTC

952 674 674 52 52 = =
39012 56064 37650 50575 82000 07243 69570 64433 93195 25752
39901 30707 26069 39751 68521 19171 56437 37979 22339 55456
42890 40595 13259 29608 63470 51370 02889 38472 20826 52166
18671 84896 32994 25631 11128 82911 52027 17059 06904 41603
77632 71348 37307 26556 58021 05996 47009 22152 95149 06054
12627 43181
= = 674 674 52 52 00000

12211/10243 kHz, 21-12, 0500/0520 UTC (0500z not monitored)

952 180 180 52 52 = =
67299 50331 65460 58545 24187 43533 71284 66719 60234 99185
24183 92190 31451 69383 19862 64633 16938 78313 97681 48014
47344 08304 89675 79431 67804 58245 31386 17033 46281 29057
07947 64204 63255 15891 33867 62216 43703 11767 89937 68511
17293 52312 65703 62826 17749 56313 80946 48336 57302 41745
84599 39999
= = 180 180 52 52 00000

12211/10243 kHz, 22-12, 0500/0520 UTC

952 746 746 51 51 = =
99194 31276 29260 06592 52986 22055 69886 31577 28116 53308
27125 37364 28751 83639 57828 02428 93339 10640 51688 58892
75833 45738 49222 01213 82860 68832 58686 89492 84049 48645
01600 95859 37681 39740 41575 67356 98862 92134 76133 03765
02403 34446 96190 73803 37591 16515 42916 18160 57053 22434
16638
= = 746 746 51 51 00000

12211/10243 kHz, 27-12, 0500/0520 UTC (0520z not monitored)

952 103 58 = =
66366 31762 30880 65909 56919 09660 78747 60710 26120 20998
08877 12432 59520 09131 91042 09951 76578 21721 90382 88124
72356 12953 47235 70678 50711 03270 44556 51085 47441 88818
23885 16118 66796 17779 35776 41766 79814 75791 35642 16206
57912 47637 60947 69500 40157 47389 50681 14737 57682 34199
93057 30270 63656 55919 12376 37764 42264 87746
= = 103 58 00000

12211/10243 kHz, 29-12, 0500/0520 UTC (0520z not monitored)

952 610 610 51 51 = =
29815 85125 36876 84748 60246 96164 81714 33215 04328 27182
99117 78198 51020 29200 50328 31552 62791 05548 81946 51060
27464 64857 59667 52860 39076 19079 27106 49349 06169 18706
50672 17268 10960 42393 36402 25651 67841 83154 29716 78326
54612 98334 34011 50650 14925 15535 09042 25170 55340 11682
35032
= = 610 610 51 51 (no closing nulls)

Tests

11073 kHz, 09-12, 1200 UTC

352 907 32 = =
50671 55250 73542 57347 39856 03752 74526 82682 08748 59970
17850 27523 59517 73904 24174 23569 67637 82748 53668 17635
72031 80419 47381 47274 96972 45776 62081 83697 10401 52962
15728 27907
= = 907 32 00000

11073 kHz, 10-12, 1047 UTC. Three series of fast beeps

11073 kHz, 10-12, 1050 UTC

352 907 907 32 32 = =
50671 55250 73542 57347 39856 03752 74526 82682 08748 59970
17850 27523 59517 73904 24174 23569 67037 82748 53668 17635
72031 80419 47381 47274 96972 45776 62081 83697 10401 52962
15728 27907
= = 907 907 32 32 00000

M14d: 10755 kHz, 19-12, 0720 UTC. Two series of fast beeps

10755 kHz, 19-12, 0730 UTC

975 32069 (R3m20s)
975 975 97 [23s silence]
2069 975 32069 (R1m) 048 048 36 36 = =
34841 38986 28657 75211 91178 73068 48057 52207 51431 27162 64998 80907 [50s silence]
975 (R1m)
51431 27162 64998 80907 73003 15897 65700 32713 89438 64686 [27s silence]
975 (R1m)
73003 15897 65700 32713 89438 64686 40667 52412 60975 31245 36077 33854 46689 35034 44716 93385 65390 30542 16152
39469 37497 85357 90836 61937
= = 048 048 36 36 00000

Full recomposed message

975 975 975 32069 048 048 36 36 = =
34841 38986 28657 75211 91178 73068 48057 52207 51431 27162
64998 80907 73003 15897 65700 32713 89438 64686 40667 52412
60975 31245 36077 33854 46689 35034 44716 93385 65390 30542
16152 39469 37497 85357 90836 61937
= = 048 048 36 36 00000

9463 kHz, 22-12, 0725 UTC. FSK reversals, 200Hz shift

9463 kHz, 22-12, 0727 UTC. Two series of fast beeps

9463 kHz, 22-12, 0727 UTC. Two messages

801 (R2m35)
8 [30s silence]
801 (R1m) 236 236 45 45 = =
44623 90193 39140 89626 96706 61002 29408 43412 84946 33429
21017 15528 49392 42461 37617 42732 41484 58566 72826 74529
90848 15392 97500 53265 24526 99681 78043 49402 62084 20576
91676 81651 35045 00502 49634 76670 04065 54829 64193 47939
72309 52487 20495 98706 18455
= 236 45 801 (R1m) 907 907 15 15 = =
85202 45562 51995 27187 42534 62408 33550 53518 26630 43441

33182 82519 18333 97833 96540
= 907 15 000 [35s silence]
801 (R1m15s)
26630 43441 33182 82519 18333 97833 96540
= = 907 907 15 15 00000

Last message recomposed

801 907 907 15 15 = =
85202 45562 51995 27187 42534 62408 33550 53518 26630 43441
33182 82519 18333 97833 96540
= = 907 907 15 15 00000

M14d: 11073 kHz, 21-12, 0755 UTC. Several restarts

352 352 352 45092 791 40 = =
33152 89507 67760 11447 67212 33800 36034 71162 78908 64813 88443 93251 56259 19596 off
78908 64813 88443 93251 56259 19596 69962 76286 35658 72786 91901 43108 off
352 (R1m14s) off
352 (R1m17s) 29345 53664 01169 99905 82963 86768 81475 24090 60804 78822 47310 37627 33011 76030 82109 94778 31317
= = 7911 791 40 40 00000

Recomposed (incomplete) message

352 352 352 45092 791 791 40 40 = =
33152 89507 67760 11447 67212 33800 36034 71162 78908 64813
88443 93251 56259 19596 69962 76286 35658 72786 91901 43108
29345 53664 01169 99905 82963 86768 81475 24090 60804 78822
47310 37627 33011 76030 82109 94778 31317
= = 7911 791 40 40 00000

11073 kHz, 23-12, 1315 UTC

352 (R1m20s)
352 [1m45s silence]
52 352 (R1m25s) 794 794 35 35 = =
04696 52532 54208 74180 52726 67524 20045 41262 95107 01699
39273 64222 69410 96196 61505 85734 36730 73105 47754 38663
75721 69398 83823 31797 04034 17828 28576 09902 72816 85741
51737 61528 99404 07745 40950
= = 794 794 35 35 00000

11073/9371 kHz, 30-12, 1200/1230 UTC

352 469 37 = =
72018 19447 48935 54625 94172 71628 03702 44144 52116 72772
64897 19201 31292 80577 25973 46834 40788 48499 34239 26262
65047 25015 43442 95538 15907 42598 52390 68394 35521 91084
15533 30929 98608 40124 36468 52864 87437
= = 469 37 00000

M21 - Russian Air Defense Forces (Во́йска ПВО Voyska PVO)

4865.5 kHz, 08-12, 1827 UTC	=992127??8?????
4865.5 kHz, 17-12, 0436 UTC	=990737??8????? =990738??8????? =990739??8????? =990740??8?????
5980.5 kHz, 23-12, 0702 UTC	=991002??8?????

UM04 - PROMRCh

4735 kHz, 01-12, 0800 UTC

VVV VVV PROMRCh = 01 12 =
1000 1000 1050 1240 1770
1200 1070 1120 1300 1840
1400 1080 1130 1290 1810
1600 1030 1080 1270 1810
1800 0600 0620 0720 1000
2000 0450 0470 0550 0760
2200 0370 0080 0430 0580
0000 0390 0400 0440 0590
0200 0410 0420 0470 0630
0400 0420 0430 0480 0650
0500 0360 0380 0440 0610
0800 0740 0790 0950 1400
= ABV

VVV VVV PROMRCh = 01 12 =
1000 1000 1050 1240 1770
1200 1070 1120 1300 1840
1400 1080 1130 1290 1810
1600 1030 1080 1270 1810
1800 0600 0620 0720 1000
2000 0450 0470 0550 0760
2200 0370 0080 0430 0580
0000 0390 0400 0440 0590
0200 0410 0420 0470 0630
0400 0420 0430 0480 0650
0500 0360 0380 0440 0610
0800 0740 0790 0950 1400
= AR

4735 kHz, 05-12, 0800 UTC

VVV VVV PROMRCh = 05 12 =
1000 0980 1030 1220 1760
1200 1060 1110 1290 1830
1400 1050 1100 1270 1780
1600 1010 1060 1230 1770
1800 0610 0600 0730 1030
2000 0440 0460 0530 0750
2200 0360 0370 0430 0570
0000 0380 0390 0440 0580
0200 0400 0410 0460 0610
0400 0410 0420 0470 0640
0600 0360 0380 0440 0610
0800 0720 0770 0920 1360
= ABV

VVV VVV PROMRCh = 05 12 =
1000 0980 1030 1220 1760
1200 1060 1110 1290 1830
1400 1050 1100 1270 1780
1600 1010 1060 1230 1770
1800 0610 0600 0730 1030
2000 0440 0460 0530 0750
2200 0360 0370 0430 0570
0000 0380 0390 0440 0580
0200 0400 0410 0460 0610
0400 0410 0420 0470 0640
0600 0360 0380 0440 0610
0800 0720 0770 0920 1360
= AR

4735 kHz, 02-12, 0800 UTC

VVVVV PROMRCh = 02 12 =
1000 1000 1050 1230 1770
1200 1070 1120 1300 1840
1400 1080 1120 1290 1810
1600 1030 1080 1270 1810
1800 0600 0620 0720 1010
2000 0450 0470 0550 0760
2200 0370 0380 0530 0580
0000 0390 0400 0440 0580
0200 0410 0420 0470 0630
0400 0420 0430 0480 0640
0600 0360 0380 0440 0610
0800 0740 0790 0950 1400
= ABV

VVVVV PROMRCh = 02 12 =
1000 1000 1050 1230 1770
1200 1070 1120 1300 1840
1400 1080 1120 1290 1810
1600 1030 1080 1270 1810
1800 0600 0620 0720 1010
2000 0450 0470 0550 0760
2200 0370 0380 0530 0580
0000 0390 0400 0440 0580
0200 0410 0420 0470 0630
0400 0420 0430 0480 0640
0600 0360 0380 0440 0610
0800 0740 0790 0950 1400
= AR

4735 kHz, 06-12, 0800 UTC

VVV VVV PROMRCh = 06 12 =
1000 1010 1060 1250 1790
1200 1080 1130 1300 1850
1400 1070 1170 1280 1800
1600 1020 1080 1250 1790
1800 0620 0650 0740 1030
2000 0440 0460 0530 0750
2200 0360 0370 0430 0570
0000 0380 0390 0440 0580
0200 0400 0440 0460 0610
0400 0410 0420 0470 0640
0600 0360 0380 0440 0610
0800 0720 0770 0930 1360
= ABV

VVV VVV PROMRCh = 06 12 =
1000 1010 1060 1250 1790
1200 1080 1130 1300 1850
1400 1070 1170 1280 1800
1600 1020 1080 1250 1790
1800 0620 0650 0740 1030
2000 0440 0460 0530 0750
2200 0360 0370 0430 0570
0000 0380 0390 0440 0580
0200 0400 0440 0460 0610
0400 0410 0420 0470 0640
0600 0360 0380 0440 0610
0800 0720 0770 0930 1360
= AR

4735 kHz, 03-12, 0800 UTC

VVV VVV PROMRCh = 03 12 =
1000 1000 1060 1240 1780
1200 1080 1130 1310 1850
1400 1080 1130 1290 1810
1600 1040 1090 1270 1810
1800 0520 0650 0750 1040
2000 0460 0470 0550 0770
2200 0370 0380 0440 0590
0000 0390 0400 0450 0590
0200 0410 0420 0470 0620
0400 0420 0430 0480 0650
0600 0370 0380 0440 0620
0800 0740 0790 0950 1400
= ABV

VVV VVV PROMRCh = 03 12 =
1000 1000 1060 1240 1780
1200 1080 1130 1310 1850
1400 1080 1130 1290 1810
1600 1040 1090 1270 1810
1800 0520 0650 0750 1040
2000 0460 0470 0550 0770
2200 0370 0380 0440 0590
0000 0390 0400 0450 0590
0200 0410 0420 0470 0620
0400 0420 0430 0480 0650
0600 0370 0380 0440 0620
0800 0740 0790 0950 1400
= AR

4735 kHz, 07-12, 0800 UTC

VVVVV PROMRCh = 07 12 =
1000 1010 1060 1240 1790
1200 1080 1130 1310 1860
1400 1070 1120 1290 1800
1600 1030 1080 1260 1790
1800 0620 0650 0740 1040
2000 0440 0460 0530 0750
2200 0360 0370 0420 0570
0000 0380 0390 0440 0580
0200 0400 0410 0460 0610
0400 0410 0420 0470 0640
0600 0360 0380 0440 0620
0800 0710 0760 0910 1350
= ABV =

VVVVV PROMRCh = 07 12 =
1000 1010 1060 1240 1790
1200 1080 1130 1310 1860
1400 1070 1120 1290 1800
1600 1030 1080 1260 1790
1800 0620 0650 0740 1040
2000 0440 0460 0530 0750
2200 0360 0370 0420 0570
0000 0380 0390 0440 0580
0200 0400 0410 0460 0610
0400 0410 0420 0470 0640
0600 0360 0380 0440 0620
0800 0710 0760 0910 1350
= AR

4735 kHz, 04-12, 0800 UTC

VVVVV PROMRCh = 04 12 =
1000 1010 1060 1240 1790
1200 1080 1130 1310 1850
1400 1080 1120 1290 1810
1600 1030 1090 1260 1800
1800 0620 0650 0740 1030
2000 0450 0470 0550 0760
2200 0370 0380 0430 0590
0000 0390 0400 0440 0590
0200 0410 0420 0470 0620
0400 0420 0430 0480 0650
0600 0370 0380 0440 0620
0800 0730 0780 0940 1380
= ABV =

VVVVV PROMRCh = 04 12 =
1000 1010 1060 1240 1790
1200 1080 1130 1310 1850
1400 1080 1120 1290 1810
1600 1030 1090 1260 1800
1800 0620 0650 0740 1030
2000 0450 0470 0550 0760
2200 0370 0380 0430 0590
0000 0390 0400 0440 0590
0200 0410 0420 0470 0620
0400 0420 0430 0480 0650
0600 0370 0380 0440 0620
0800 0730 0780 0940 1380
= AR

4735 kHz, 08-12, 0800 UTC

Note the missing group
VVVVV PROMRCh = 08 12 =
1000 1010 1070 1250 1800
1200 1090 1140 1320 1860
1400 1080 1130 1290 1810
1600 1030 1080 1260 1790
1800 0620 0650 0750 1050
2000 0440 0460 0530 0750
2200 0360 0370 0420 0570
0000 0380 0090 0440 0580
0200 0390 0400 0450 0610
0400 0410 0420 0470 0640
0600 0450 0380 0440 0610
0800 0700 0910 1340
= ABV

VVVVV PROMRCh = 08 12 =
1000 1010 1070 1250 1800
1200 1090 1140 1320 1860
1400 1080 1130 1290 1810
1600 1030 1080 1260 1790
1800 0620 0650 0750 1050
2000 0440 0460 0530 0750
2200 0360 0370 0420 0570
0000 0380 0090 0440 0580
0200 0390 0400 0450 0610
0400 0410 0420 0470 0640
0600 0450 0380 0440 0610
0800 0700 0910 1340
= AR

4735 kHz, 09-12, 0800 UTC

VVV VVV PROMRCh = 09 12 =
1000 1010 1060 1250 1750
1200 1090 1140 1320 1830
1400 1070 1120 1290 1770
1600 1020 1070 1250 1750
1800 0630 0650 0750 1020
2000 0440 0460 0530 0740
2200 0360 0370 0420 0560
0000 0380 0390 0440 0580
0200 0390 0400 0450 0610
0400 0410 0420 0470 0640
0600 0370 0380 0440 0610
0800 0700 0750 0900 1310
= ABV

VVV VVV PROMRCh = 09 12 =
1000 1010 1060 1250 1750
1200 1090 1140 1320 1830
1400 1070 1120 1290 1770
1600 1020 1070 1250 1750
1800 0630 0650 0750 1020
2000 0440 0460 0530 0740
2200 0360 0370 0420 0560
0000 0380 0390 0440 0580
0200 0390 0400 0450 0610
0400 0410 0420 0470 0640
0600 0370 0380 0440 0610
0800 0700 0750 0900 1310
= AR

4735 kHz, 13-12, 0800 UTC

VVVVV PROMRCh = 13 12 =
1000 0950 1000 1190 1720
1200 1040 1090 1280 1820
1400 1010 1060 1220 1720
1600 0960 1010 1180 1700
1800 0580 0610 0700 0990
2000 0420 0440 0510 0720
2200 0350 0360 0410 0560
0000 0380 0390 0430 0580
0200 0390 0400 0460 0600
0400 0400 0410 0470 0630
0600 0370 0380 0440 0610
0800 0670 0710 0860 1260
= ABV =

VVVVV PROMRCh = 13 12 =
1000 0950 1000 1190 1720
1200 1040 1090 1280 1820
1400 1010 1060 1220 1720
1600 0960 1010 1180 1700
1800 0580 0610 0700 0990
2000 0420 0440 0510 0720
2200 0350 0360 0410 0560
0000 0380 0390 0430 0580
0200 0390 0400 0460 0600
0400 0400 0410 0470 0630
0600 0370 0380 0440 0610
0800 0670 0710 0860 1260
= AR

4735 kHz, 10-12, 0800 UTC

VVVVV PROMRCh = 10 12 =
1000 1000 1060 1240 1780
1200 1090 1140 1320 1880
1400 1070 1200 1280 1800
1600 1020 1070 1240 1170
1800 0620 0650 0750 1050
2000 0440 0460 0530 0750
2200 0360 0370 0420 0570
0000 0380 0390 0440 0580
0200 0390 0400 0450 0610
0400 0410 0420 0470 0640
0600 0370 0380 0440 0610
0800 0700 0740 0900 1320
= ABV

VVVVV PROMRCh = 10 12 =
1000 1000 1060 1240 1780
1200 1090 1140 1320 1880
1400 1070 1200 1280 1800
1600 1020 1070 1240 1170
1800 0620 0650 0750 1050
2000 0440 0460 0530 0750
2200 0360 0370 0420 0570
0000 0380 0390 0440 0580
0200 0390 0400 0450 0610
0400 0410 0420 0470 0640
0600 0370 0380 0440 0610
0800 0700 0740 0900 1320
= AR

4735 kHz, 14-12, 0800 UTC

VVV VVV PROMRÖ = 14 12 =
1000 0950 1000 1190 1720
1200 1040 1100 1280 1820
1400 1010 1060 1220 0730
1600 0960 1010 1180 1690
1800 0580 0610 0710 0990
2000 0420 0440 0510 0720
2200 0350 0360 0410 0560
0000 0380 0390 0430 0580
0200 0390 0400 0450 0600
0400 0400 0420 0470 0630
0600 0370 0380 0440 0620
0800 0660 0710 0850 1260
= ABV

VVV VVV PROMRÖ = 14 12 =
1000 0950 1000 1190 1720
1200 1040 1100 1280 1820
1400 1010 1060 1220 0730
1600 0960 1010 1180 1690
1800 0580 0610 0710 0990
2000 0420 0440 0510 0720
2200 0350 0360 0410 0560
0000 0380 0390 0430 0580
0200 0390 0400 0450 0600
0400 0400 0420 0470 0630
0600 0370 0380 0440 0620
0800 0660 0710 0850 1260
= AR

4735 kHz, 11-12, 0800 UTC

VVV VVV PROMRCh = 11 12 =
1000 0970 1003 1210 1750
1200 1060 1110 1290 1840
1400 1030 1080 1250 1760
1600 0980 1030 1210 1730
1800 0600 0630 0720 1010
2000 0430 0450 0520 0730
2200 0390 0560 0420 0560
0000 0380 0390 0440 0580
0200 0390 0400 0450 0600
0400 0400 0420 0470 0640
0600 0360 0380 0440 0610
0800 0630 0730 0380 1300
= ABV

VVV VVV PROMRCh = 11 12 =
1000 0970 1003 1210 1750
1200 1060 1110 1290 1840
1400 1030 1080 1250 1760
1600 0980 1030 1210 1730
1800 0600 0630 0720 1010
2000 0430 0450 0520 0730
2200 0390 0560 0420 0560
0000 0380 0390 0440 0580
0200 0390 0400 0450 0600
0400 0400 0420 0470 0640
0600 0360 0380 0440 0610
0800 0630 0730 0380 1300
=AR

4735 kHz, 15-12, 0750 UTC

Carrier on and off till 0810z.
VVVVV PROMRCh = 15 12 =
1000 0950 1000 1180 1710
1200 1040 1090 1360 1820
1400 1010 1 then off
3m35s silence
Carrier up for 6sec.
Silence for 1m18s.
Restart at 0817z. No repeat.

VVVVV PROMRCh = 15 12 =
1000 0950 1000 1180 1710
1200 1040 1090 1360 1820
1400 1010 1050 1220 1720
1600 0940 0990 1170 1780
1800 0580 0610 0700 0980
2000 0420 0440 0510 0720
2200 0340 0360 0410 0560
0000 0380 0390 0430 0580
0200 0390 0400 0450 0600
0400 0400 0410 0470 0630
0600 0370 0380 0440 0620
0800 0650 0700 0840 1250
= AR

4735 kHz, 12-12, 0800 UTC

VVV VVV PROMRCh = 12 12 =
1000 0990 1040 1230 1770
1200 1070 1120 1310 1860
1400 1040 1090 1250 1760
1600 0990 1040 1220 1740
1800 0600 0630 0730 1010
2000 0430 0450 0520 0730
2200 0350 0360 0420 0560
0000 0380 0390 0440 0580
0200 0390 0400 0450 0600
0400 0400 0420 0470 0640
0600 0370 0380 0440 0620
0800 0680 0730 0880 1300
= ABV

VVV VVV PROMRCh = 12 12 =
1000 0990 1040 1230 1770
1200 1070 1120 1310 1860
1400 1040 1090 1250 1760
1600 0990 1040 1220 1740
1800 0600 0630 0730 1010
2000 0430 0450 0520 0730
2200 0350 0360 0420 0560
0000 0380 0390 0440 0580
0200 0390 0400 0450 0600
0400 0400 0420 0470 0640
0600 0370 0380 0440 0620
0800 0680 0730 0880 1300
= AR

4735 kHz, 16-12, 0800 UTC

VVV VVV PROMRCh = 16 12 =
1000 0940 1000 1190 1710
1200 1030 1090 1270 1820
1400 1000 1050 1210 1710
1600 0930 0980 1150 1660
1800 0560 0590 0680 0960
2000 0410 0430 0500 0710
2200 0350 0360 0410 0550
0000 0380 0390 0430 0580
0200 0390 0400 0450 0600
0400 0400 0410 0470 0630
0600 0370 0380 0440 0610
0800 0650 0690 0830 1230
= ABV

VVV VVV PROMRCh = 16 12 =
1000 0940 1000 1190 1710
1200 1030 1090 1270 1820
1400 1000 1050 1210 1710
1600 0930 0980 1150 1660
1800 0560 0590 0680 0960
2000 0410 0430 0500 0710
2200 0350 0360 0410 0550
0000 0380 0390 0430 0580
0200 0390 0400 0450 0600
0400 0400 0410 0470 0630
0600 0370 0380 0440 0610
0800 0650 0690 0830 1230
= AR

4735 kHz, 25-12, 0800 UTC
 VVV VVV PROMRCh = 25 12 =
 1000 0940 0990 1170 1700
 1200 1020 1070 1260 1810
 1400 0980 1030 1190 1690
 1600 0910 0960 1130 1630
 1800 0540 0570 0660 0930
 2000 0400 0420 0490 0690
 2200 0340 0350 0400 0540
 0000 0370 0380 0430 0570
 0200 0390 0400 0440 0590
 0400 0400 0420 0470 0630
 0600 0370 0390 0450 0620
 0800 0610 0650 0790 1160
 = ABV
 VVV VVV PROMRCh = 25 12 =
 1000 0940 0990 1170 1700
 1200 1020 1070 1260 1810
 1400 0980 1030 1190 1690
 1600 0910 0960 1130 1630
 1800 0540 0570 0660 0930
 2000 0400 0420 0490 0690
 2200 0340 0350 0400 0540
 0000 0370 0380 0430 0570
 0200 0390 0400 0440 0590
 0400 0400 0420 0470 0630
 0600 0370 0390 0450 0620
 0800 0610 0650 0790 1160
 = AR

4735 kHz, 26-12, 0800 UTC
 VVVVV PROMRCh = 26 12 =
 1000 0920 0980 1160 1690
 1200 1000 1050 1240 1790
 1400 0970 1020 1180 1680
 1600 0890 0950 1020 1620
 1800 0530 0560 0650 0920
 2000 0400 0420 0490 0690
 2200 0340 0350 0400 0540
 0000 0370 0380 0430 0570
 0200 0390 0400 0440 0590
 0400 0400 0420 0470 0630
 0600 0370 0390 0450 0620
 0800 0610 0650 0790 1160
 = ABV =
 VVVVV PROMRCh = 26 12 =
 1000 0920 0980 1160 1690
 1200 1000 1050 1240 1790
 1400 0970 1020 1180 1680
 1600 0890 0950 1020 1620
 1800 0530 0560 0650 0920
 2000 0400 0420 0490 0690
 2200 0340 0350 0400 0540
 0000 0370 0380 0430 0570
 0200 0390 0400 0440 0590
 0400 0400 0420 0470 0630
 0600 0370 0390 0450 0620
 0800 0610 0650 0790 1160
 = AR

4735 kHz, 27-12, 0800 UTC
 VVVVV PROMRCh = 27 12 =
 1000 0920 0980 1160 1690
 1200 1000 1060 1250 1790
 1400 0970 1010 1180 1680
 1600 0890 0950 1120 1620
 1800 0540 0560 0650 0930
 2000 0400 0420 0490 0690
 2200 0340 0350 0400 0540
 0000 0370 0380 0430 0570
 0200 0390 0400 0440 0590
 0400 0400 0420 0470 0640
 0600 0370 0390 0450 0620
 0800 0610 0650 0790 1160
 = ABV
 VVVVV PROMRCh = 27 12 =
 1000 0920 0980 1160 1690
 1200 1000 1060 1250 1790
 1400 0970 1010 1180 1680
 1600 0890 0950 1120 1620
 1800 0540 0560 0650 0930
 2000 0400 0420 0490 0690
 2200 0340 0350 0400 0540
 0000 0370 0380 0430 0570
 0200 0390 0400 0440 0590
 0400 0400 0420 0470 0640
 0600 0370 0390 0450 0620
 0800 0610 0650 0790 1160
 = AR

4735 kHz, 28-12, 0800 UTC
 VVV VVV PROMRCh = 28 12 =
 1000 0930 0980 1170 1700
 1200 1010 1060 1250 1800
 1400 0970 1020 1180 1680
 1600 0900 0960 1130 1630
 1800 0540 0570 0660 0930
 2000 0400 0420 0470 0690
 2200 0340 0350 0400 0540
 0000 0370 0380 0420 0570
 0200 0390 0400 0440 0590
 0400 0400 0420 0470 0630
 0600 0370 0390 0450 0620
 0800 0610 0660 0790 1170
 = ABV
 VVV VVV PROMRCh = 28 12 =
 1000 0930 0980 1170 1700
 1200 1010 1060 1250 1800
 1400 0970 1020 1180 1680
 1600 0900 0960 1130 1630
 1800 0540 0570 0660 0930
 2000 0400 0420 0470 0690
 2200 0340 0350 0400 0540
 0000 0370 0380 0420 0570
 0200 0390 0400 0440 0590
 0400 0400 0420 0470 0630
 0600 0370 0390 0450 0620
 0800 0610 0660 0790 1170
 = AR



German WWI equipment

4735 kHz, 29-12, 0800 UTC

VVVVV PROMRCh = 2912 =
 1000 0930 0980 1170 1700
 1200 1020 1070 1300 1810
 1400 0980 1020 1190 1690
 1600 0910 1140 1640
 1800 0540 0570 0660 0940
 2000 0400 0420 0490 0690
 2200 0440 0350 0400 0540
 0000 0370 0380 0420 0570
 0200 0390 0400 0430 0600
 0400 0400 0420 0470 0640
 0600 0610 0660 0790 1170
 = ABV off

Restart at 0809z:

VVVVV PROMRCh = 2912 =
 1000 0930 0980 1170 1700
 1200 1020 1070 1300 1810
 1400 0980 1020 1190 1690
 1600 0910 1140 1640 1540
 1800 0540 0570 0660 0940
 2000 0400 0420 0490 0690
 2200 0440 0350 0400 0540
 0000 0370 0380 0420 0570
 0200 0390 0400 0430 0600
 0400 0400 0420 0470 0640
 0600 0610 0660 0790 1170
 0800 0610 0660 0790 1170
 = ABV

VVVVV PROMRCh = 2912 =
 1000 0930 0980 1170 1700
 1200 1020 1070 1300 1810
 1400 0980 1020 1190 1690
 1600 0910 1140 1640 1540
 1800 0540 0570 0660 0940
 2000 0400 0420 0490 0690
 2200 0440 0350 0400 0540
 0000 0370 0380 0420 0570
 0200 0390 0400 0430 0600
 0400 0400 0420 0470 0640
 0600 0610 0660 0790 1170
 0800 0610 0660 0790 1170
 = AR

4735 kHz, 30-12, 0800 UTC

VVVVV PROMRCh = 30 12 =
 1000 0930 0990 1170 1700
 1200 1020 1080 1260 1820
 1400 0980 1020 1190 169E
 1600 0920 0970 1190 1690
 1800 0550 0580 0670 0950
 2000 0400 0420 0490 0690
 2200 0340 0350 0400 0540
 0000 0370 0380 0430 0570
 0200 0390 0400 0450 0600
 0400 0410 0420 0470 0640
 0600 0380 0390 0450 0620
 0800 0610 0660 0790 1170
 = ABV

VVVVV PROMRCh = 30 12 =
 1000 0930 0990 1170 1700
 1200 1020 1080 1260 1820
 1400 0980 1020 1190 169E
 1600 0920 0970 1190 1690
 1800 0550 0580 0670 0950
 2000 0400 0420 0490 0690
 2200 0340 0350 0400 0540
 0000 0370 0380 0430 0570
 0200 0390 0400 0450 0600
 0400 0410 0420 0470 0640
 0600 0380 0390 0450 0620
 0800 0610 0660 0790 1170
 = AR

4735 kHz, 31-12, 0800 UTC

VVVVV PROMRCh = 31 12 =
 1000 0950 1000 1190 1720
 1200 1040 1090 1280 1840
 1400 0990 1030 1200 1700
 1600 0940 0990 1170 1680
 1800 0570 0590 0690 0970
 2000 0400 0420 0490 0700
 2200 0350 0360 0400 0550
 0000 0370 0380 0430 0570
 0200 0390 0400 0450 0600
 0400 0410 0420 0470 0640
 0600 0370 0390 0450 0630
 0800 0600 0660 0800 1170
 = ABV =

VVVVV PROMRCh = 31 12 =
 1000 0950 1000 1190 1720
 1200 1040 1090 1280 1840
 1400 0990 1030 1200 1700
 1600 0940 0990 1170 1680
 1800 0570 0590 0690 0970
 2000 0400 0420 0490 0700
 2200 0350 0360 0400 0550
 0000 0370 0380 0430 0570
 0200 0390 0400 0450 0600
 0400 0410 0420 0470 0640
 0600 0370 0390 0450 0630
 0800 0600 0660 0800 1170
 = AR

UM05

Excerpts from UM05 transmissions.

3961.8 kHz

- 01-12 Passage, Niveau, La gare est ouverte, Vue, Decouverte, Desert, Oasis, Trafic de chausson a droite de la porte, CTE
- 02-12 Vallee, Passage, Port, Metro, Aventure, Deviation, Port, Jungle, Champ, Montagne, To change the settings copy a file from the system configuration path to the subdirectories
- 03-12 Cascade, Accident, Paysage, Decouverte, Accident, Vue, Tourisme
- 04-12 Cascade, Accident, Paysage
- 05-12 Accident, Campagne, Trafic de chausson a droite de la porte, Paysage, Arret de bus, La gare est ouverte, Nature
- 06-12 Deviation, Plaine, Jungle, Velo, Voyage, Lac, Metro, Rocher, Colline, Oasis, Decouverte
- 07-12 Velo, Jungle, Port, Rocher, Port, Plaine, Nature, Voiture, Tramway
- 08-12 Passage, Moto, Detour, Pont, Tunnel, Voiture, Plaine, Montagne, Voiture, Voie
- 09-12 Riviere, Ocean, Autoroute, Ocean, Embouteillage, Prairie, La garage est ouverte
- 10-12 Metro, Colline, Vue, Le, Ocean, Detour, Arret de bus, Prairie, Pont, Route, Tramway, Foret, Detour
- 11-12 Voiture, Oasis, Vallee, Campagne, Desert, Nature, Oasis, Aventure, Desert, Champ, Jungle

- 12-12 Fort, CTE, Chemin de fer, Rocher, Vue, Accident, Passage, Champ, Chemin de fer, Passage
- 13-12 Paysage, Passage, Autoroute, Velo, To change the settings copy a file from the system configuration path to the subdirectorys
- 14-12 Trains, Destination, Grotte, Deviation, Passage, Route, Campagne, This document is distributed under the terms of the bus, Accident, Passage, Pieton, Foret, To change the settings copy a file from the system configuration path to the subdirectorys, Arret de busRiviere
- 15-12 **Format change. Now groups of words repeated, silence, new group of words. Sometimes a mix of French and English words.**
- 15-12 Porte fenetre table, Couteau verre portefeuille carte de credit (40 sec silence), Chaise lit couverture oreiller (17 sec silence), Couteau verre portefeuille carte de credit (40 sec silence), Chat chien oiseau arbre maison voiture (10 sec silence), Papier rocher
- 5345.8 kHz**
- 15-12 evening: active but too weak to copy
- 16-12 Glace Chair Pomme Pomme Tree Arbre (R), 43 sec silence, Fleur House Montagne Mountain Rain Flower (R), 46 sec silence, Cat Tree Cloud Chat Arbre Nuage (R), 30 sec silence, etc.
- 17-12 Eau Book Earth Moon Soleil Ciel (R) 20 sec silence, Table Star Chat Flower River Montagne (R) 27 sec silence, Eau Oiseau Toile Char Book Voiture (R) 8 sec silence, Son Soleil Flower Maison Rain Mountain (R), etc
- 18-12 Active but too weak to copy
- 19-12 Neige Book River Book Foret Sable (R)
- 20-12 Active; too weak to copy
- 21-12 Eau Door Earth Moon Soleil Ciel (R) 20 sec silence, Sable Feu Table Air Pluie House Sable (R), etc.
- 22-12, i.p.Glace Chair Pomme Pomme Tree Arbre (R) 1m42s silence, Sun Soleil Flower Maison Rain Mountain (R) 17s silence, Mer Son Dog Feu Tree Son (R)
- 23-12 Glace Sable Voiture Foret Sun Star (R) 7sec silence, Chaise House Pluie Cloud Bird Air (R) etc.
- 24-12 Sun Soleil Flower Maison Rain Mountain (R) 17 sec silence, Neige Poisson Oiseau Air Chaise Cloud (R) 26 sec silence, Ciel Chien Apple Maison Car Car (R) 1min 21sec silence, Sun Soleil Flower Maison Rain Mountain (R) etc.
- 24-12 Air Oiseau Toile Car Book Voiture (R) 8sec silence, Apple Pluie Neige Vent Pluie Chaise (R) etc.
- 25-12 Eau Book Earth Moor Soleil Ciel (R) 20sec silence, Neige Book River Book Foret Sable (R) etc.
- 26-12 Chiel Fish Book House Terre Moon (R) 14sec silence, Pomme Forest Nuage Dog Ice Lune (R) 27sec silence, Forest Earth Ice Star Riviere (R) 18sec silence, Sun Soleil Flower Maison Rain Mountain (R) etc.
- 27-12 i.p. Oisau Pomme Earth Sea Cat Star Table Wind (R)
- 28-12 i.p. Pomme Earth Sea Cat Star Oiseau (R)
- 29-12 Apple Pluie Neige Vent Pluie Chaise (R), Fleur House Montagne Rain Flower (R), Fleur Souse Montagne Mountain Rain Flower (R), Chien Chaise Poisson Eau Arbre Vent (R), Neige Poission Oiseau Air Chaise Cloud (R), Soleil Table Neige Chien Sable Oiseau (R)
- 30-12 Apple Pluie Neige Vent Pluie Chaise (R), Chaise Corest Fish Flower Sky Lune (R), Feu Water Chat Fire Ice Sky (R), Ciel Chien Apple Maison Car Car (R), Glace Sable Voiture Foret Sun Star (R), etc.
- 31-12 Sun Soleil Flower Maison Rain Mountain (R), Chaise Forest Fish Flower Sky Lune (R), Apple Pluie Neige Vent Pluie Chaise (R), Air Oiseau Toile Car Book Voiture (R), etc.

DIGITAL MODES

Russian Government networks (including intelligence agencies, domestic and international nets) . Designators F01, F06, F06a, M42, M42b

F01 – FSK 200/500

7682/5326/4029 kHz, 06-12, 1940/1950/2000 UTC

Null message: 5761 00000 +++++ +++++

Link 00116 via Cuba

18169/15765 kHz, 29-12, 2230/2240 UTC

11177 00116 91653 28052 01649

98381 87299 96361 34763 70861 89992 94795 69254 42344 79545

88324 91032 48351 27495 79244 09589 01454 97245 62380 63094

87693 69964 73328 53328 09990 05343 11005 52193 89451 91903

07953 46996 60535 66559 46844 16686 20993 08079 46600 56240

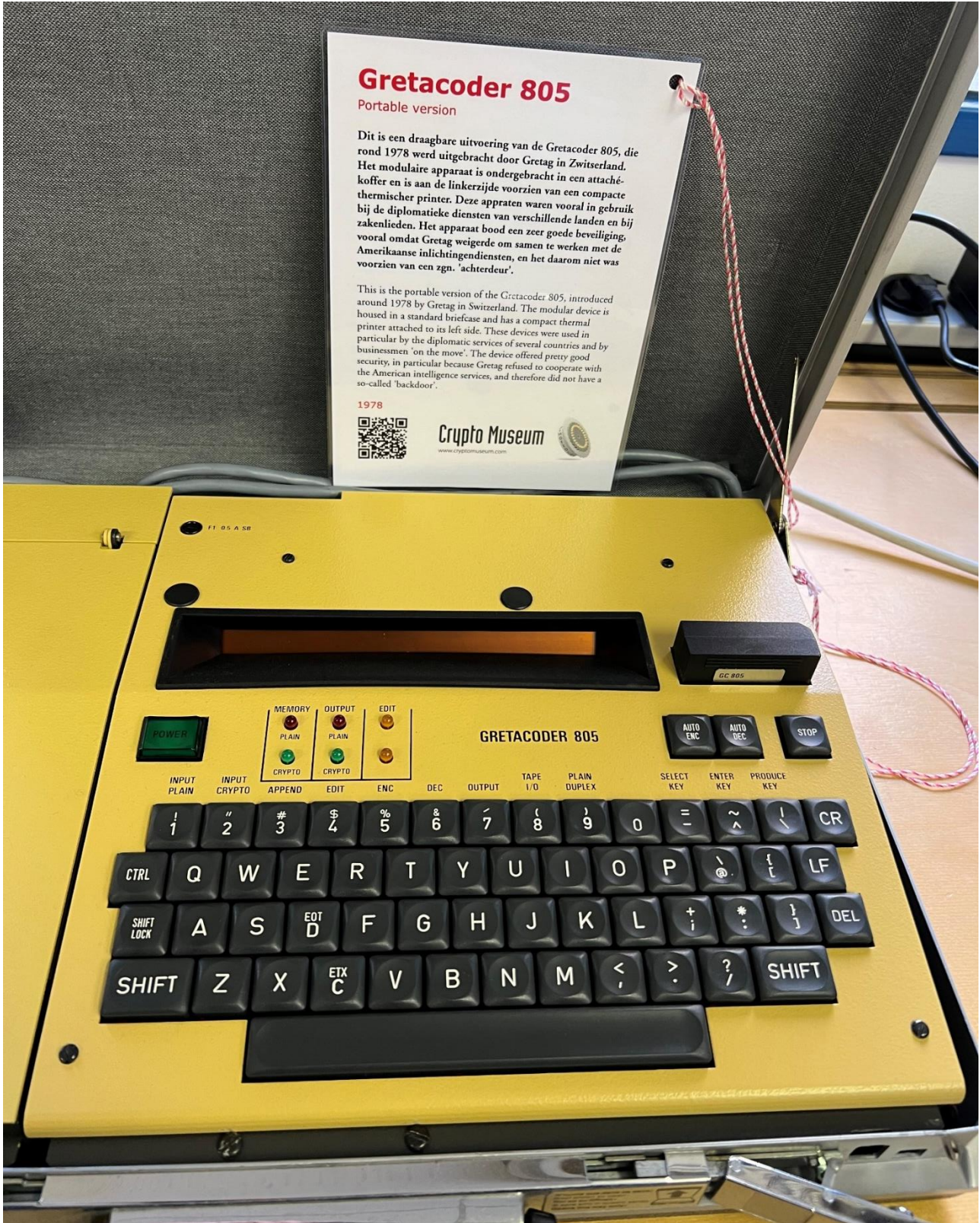
22536 34180 66588 91375 13168 56920 02318 50790 67104 76068

71078 88097 63238 15168 10961 70670 98071 29943 41683 77555

44059 43775 60687 73661 89297 89901 72910 52406 19506 65051

77698 64007 28221 24191 61277 71600 66157 71065 68230 02382

65665 24236 50423 85960 01222 63288 16796 97094 71894 84908
 32483 45023 16718 23500 40679 76555 98915 16052 05701 85125
 19906 15927 00676 42984 49036 85257 88296 98733 79966 20651
 68084 07370 49666 91880 88584 85038 80929 98250 47951 05685
 34375 72324 31341 81783 80853 85704 58561 96341 30196 36553
 40418 78355 77258 23535 67179 38910 51178 35873 77616 10119
 78800 14210 82042 54072 98194 61951 37798 34002 83207 11791
 00606 64835 64994 77091 00255 85331 61453 42829 14028 18993
 50510 75757 52162 00000 +++++



Gretacoder 805

12164/10336/8016 kHz, 11-12, 1015/1025/1035 UTC

29706 15824 74520 06055 30536 69780 15633 61818 46721 22264
 91767 88407 06533 38146 56653 38520 51879 78434 37920 38792
 91799 72926 63980 68859 74579 90435 76533 20055 79590 11457
 44923 45981 77796 54138 69216 36173 91620 83438 76693 53450
 50125 94790 89567 99231 70597 27398 08049 85823 64174 50290
 94459 91580 34905 91405 36567 81887 91053 23101 21129 09420
 49472 94538 00012 41170 82162 11584 14113 79860 37396 91502
 47720 10304 46451 20748 66149 82977 50372 00568 92563 07453
 52526 88922 95158 56488 72007 81025 84885 26192 28872 93152
 98314 14912 51059 28185 19423 39105 96742 88902 41010 99419
 67490 94817 24491 76881 52913 53640 70836 82590 80491 79668
 21590 76706 60647 60543 62236 51025 86355 06565 91946 20506
 52753 51230 15676 42567 86852 93235 37498 47289 67643 29247
 75221 91780 45069 78508 74619 38682 81059 50184 42973 24342
 83963 39525 33143 67934 73708 98004 91664 19618 32549 53347
 31091 57664 88934 70763 53590 68788 95486 45688 22804 33030
 52718 41097 54797 27674 04676 27829 04663 87896 89807 89056
 11211 89895 25652 17598 49344 94844 86773 81603 53868 98459
 63742 58663 75107 28267 53108 30073 52867 89160 14711 76929
 10911 03637 02127 73354 06073 99879 90166 20545 72950 59056
 60605 46109 86537 98985 56324 85788 25344 46336 76990 69844
 35491 22164 99541 66410 71171 19077 18160 16212 67367 16638
 90993 23603 16501 12347 95924 68790 34636 46827 97609 06878
 27508 11232 32327 14166 53005 27963 53681 92252 56586 23382
 03942 37902 96708 28477 24751 49117 64229 45066 48198 76121
 18771 85843 39014 35235 71219 76767 44495 73739 00635 23460
 42744 99984 70643 55838 02368 53131 28606 14003 77035 86806
 39893 93896 85325 24108 15080 65078 97653 19540 13362 46932
 56240 53244 18740 82990 89367 24265 63572 69778 40024 21742
 90228 07989 01781 68967 93544 61429 82417 63864 20047 88361
 76827 85214 21636 53701 14065 94340 19971 77871 75570 77622
 82381 37099 61925 59434 48350 77496 65978 28925 50827 32634
 87199 63338 94525 03646 47060 39070 72279 10159 00195 44299
 20791 98206 82866 39773 06732 70496 40646 88230 55023 86135
 32009 91682 36085 71638 01718 17938 12452 74524 60303 53863
 71997 22453 14468 14156 74804 02845 53705 97276 38415 03515
 75941 04317 23919 82239 36109 69206 33043 69614 24575 80953
 03137 97841 17800 89754 78776 85513 97965 99596 67569 88760
 98756 06574 56770 86801 67277 88613 05439 17469 36057 44951
 57052 56488 98091 99170 28215 91460 22956 65216 75872 98879
 27371 46671 48323 96371 30811 63193 28661 53522 75685 41979
 17995 49379 57090 25413 00000 +++++ +++++

12164/10336/8016 kHz, 12-12, 1015/1025/1035 UTC

33772 65141 66577 48555 16849 97332 54822 42537 32083 07837
 17568 00262 05058 16237 86101 20042 11687 98865 00857 72869
 26043 96663 94439 36292 83507 99692 57951 44804 26441 44248
 70308 55168 24566 83509 95230 50118 87241 17657 75596 28886
 09815 94409 79847 57973 21253 15895 80133 80617 25222 12822
 66877 08389 51814 71859 29463 43352 62109 27189 57713 04232
 72751 52146 43865 55019 92736 11899 89716 59459 89591 63102
 48633 09852 27138 11460 57115 03611 42023 63132 35593 66006
 51210 30935 63153 42549 07609 81251 55879 09427 46044 32619
 03487 26091 00000 00000 00000 00000 00000 00000 00000 00000

16447 91764 65441 69171 39208 44494 62261 12018 11520 18235
 00760 97932 30367 69666 98104 56574 38156 56404 45273 32364
 79618 90263 17134 53616 41231 03120 45507 16619 65350 86311
 59909 08089 56229 89508 25655 14439 20132 89992 34013 91306
 06701 68286 24101 91767 43798 51069 41200 76684 82975 07311

61192 55618 97788 08571 35792 31740 02123 89389 38266 49193
80730 68720 14331 66327 49161 18330 67917 03251 85274 89112
36476 37135 99522 31248 35529 43718 36185 69147 77148 08425
22759 17121 92039 55564 09671 46705 09934 69025 67508 41590
77968 02915 33972 01080 21732 05575 27701 78021 78691 27099
00000 +++++ +++++ +++++

12164/10336/8016 kHz, 13-12, 1015/1025/1035 UTC

40559 27177 33827 28056 95040 88884 76252 46642 05323 52336
80180 31944 21771 92380 09960 31275 83765 94965 15527 70261
74193 23323 32052 94847 48245 55725 37503 02861 09974 62025
04058 44811 35042 11136 04296 98611 63100 26673 58118 47924
08227 32914 31325 18794 60878 58286 21790 54279 79775 88558
94173 31752 97172 86927 49102 52570 85938 23188 37766 58788
61897 79166 57858 56620 19856 22623 91799 51315 26762 66786
73191 23156 20428 57728 92421 99251 87259 56750 77371 00827
17428 09991 10161 70672 60912 22407 65857 10481 32873 78361
84107 82706 41762 75955 09603 56689 38639 67339 62341 03684
11110 22153 23609 70517 70330 56307 48614 86536 04516 93279
41732 83551 97392 50118 55274 33447 35031 65345 97736 33167
49486 10932 62452 91741 72699 55553 12600 99056 99095 71297
83488 81046 80293 01012 88068 71003 00404 28493 36609 51682
05310 18690 06460 47900 84405 20113 22861 74309 28208 46637
36718 68028 10277 80896 10290 60832 66906 66434 46721 70577
72989 80822 24368 16546 37523 06914 21833 88418 67178 44439
44675 23532 71367 29114 89707 72133 07263 51454 07831 55309
88183 92491 51345 45278 03809 18566 16669 22731 25638 02386
18399 90915 96148 62553 55670 51136 25071 38726 56724 69383
41247 44612 12645 88744 73478 65992 36189 67321 58822 95937
06656 46307 01762 24430 86723 77940 32704 24562 22202 68001
39216 02507 60629 12549 68463 03442 49650 33585 24273 90624
01131 43328 07267 39791 31911 91791 71493 16082 17182 77348
96004 25671 17370 24976 94811 59285 64519 61852 13652 69820
19066 45019 87021 51207 32969 20770 53886 10749 80123 20472
55526 52098 39999 22496 63955 11067 45431 34953 14326 11451
30524 78913 39796 33072 39571 76802 32260 09205 82962 75665
77400 95588 50997 59974 37500 78213 21540 33680 80431 12052
22468 76187 78292 07952 34841 01944 24093 09843 47724 78326
39952 29478 00619 81522 75241 30873 74419 95084 18099 81644
16847 80840 68762 13427 13297 76867 48158 58560 39025 02195
40179 55238 53625 72938 91094 38297 23731 59539 14523 57835
84871 39818 75409 92856 78430 27500 51450 52120 24636 80932
95383 79378 17527 21653 46612 05207 52827 17513 65566 12598
24669 10043 89267 08510 52098 90739 31517 18564 21305 55965
76150 47074 54517 95148 36801 69593 41485 91979 81593 50168
94505 43271 46231 00488 12920 25190 83886 23115 68014 61536
25356 05988 44281 73765 47899 60377 97952 17423 76207 19490
18761 34714 63946 39900 05868 77851 29289 73005 93872 82907
42905 98687 89876 98834 91818 28405 00000 +++++

12164/10336/8016 kHz, 14-12, 1015/1025/1035 UTC

57195 62306 24281 29754 27627 57051 67094 70025 63807 31115
98441 07970 39946 45758 50670 10578 92244 63208 16054 19855
08927 90579 35114 38190 75840 01616 74104 59528 51058 03458
27597 26026 66926 40618 07090 14889 82983 53347 01605 85069
38204 32585 21186 38514 75990 38678 59244 75652 40358 76058
34691 49809 66752 41064 99794 50229 15925 85089 24694 68405
24323 60263 94513 27395 69410 39823 80010 78808 73377 30393
67693 97163 93656 18337 60359 26295 73703 17387 83964 57490
52459 09724 61794 44065 55946 97706 41848 82042 19433 29089
00000 00000 00000 00000 00000 00000 00000 00000 00000 00000

50191 05600 74084 29324 72543 63513 16595 17431 45055 56977
93414 23930 64077 57266 83551 32024 61410 77366 96824 90288
52372 31045 62989 27074 51536 30310 12768 24373 85839 69681
92947 62104 59733 70713 82763 68740 52082 85213 03729 39223
49475 80587 40110 06096 45667 55750 12241 74803 61803 61042
69846 59087 67148 20586 97580 77411 04979 80525 49959 96367
53343 31573 57868 31986 75376 79319 73848 44895 38849 60733
48334 90269 09640 30281 54036 08492 48825 64128 00658 67487
68071 55831 07129 92644 23010 01978 23549 45277 49290 01203
20024 35560 70998 15023 84585 80868 36122 63926 97376 45472
58760 30101 00000 +++++

12164/10336/8016 kHz, 15-12, 1015/1025/1035 UTC

Null message: 5761 00000 +++++ +++++

12164/10336/8016 kHz, 18-12, 1015/1025/1035 UTC

40719 38821 84925 41290 16728 08877 03913 73040 25843 37812
23105 30152 60038 66333 25206 97026 70691 73175 88148 59592
43771 44802 02325 35208 68094 10428 14472 35863 70084 09570
34165 44366 13475 84303 63837 08215 87383 13406 38280 80822
31218 30595 84540 64798 69813 94021 38186 36966 57286 99234
76834 59807 52997 52780 56919 09022 78090 48636 64610 71882
26034 14663 16835 96081 25601 21272 73328 93756 79734 69473
45667 30370 28719 00518 14199 53153 11119 94301 88833 38772
20894 48733 74608 64936 84156 57237 27985 35606 03988 26601
14801 14510 46759 02327 05817 46646 68395 93708 70808 72461
04020 15786 57118 64395 69410 90390 63630 40467 47711 73460
46080 34612 59840 00809 14662 28434 42021 69537 09848 74078
78878 97288 67375 62902 65548 26505 08327 19630 97216 65909
15249 26693 09546 86366 80238 08423 18415 13338 35946 29805
32411 83097 05422 89461 36517 54911 31747 11567 70425 96356
73391 66371 49919 83977 76226 74030 04754 86452 58140 71419
31486 22480 67183 46622 84679 10548 99193 70791 54920 52792
85822 82043 07100 20123 88916 01114 77375 30805 62181 83414
52269 39686 66066 37227 78327 80259 46812 62676 75788 26738
15597 91208 54688 68340 88711 30237 56848 12976 74715 42649
72176 62503 19498 15872 02724 26762 45186 00170 72931 68564
43842 20870 09512 96827 11883 94202 39384 50039 36151 01436
79127 37240 67598 01010 14369 28722 43491 83334 92545 13610
44095 97958 77494 66529 94770 07790 39289 90550 49411 50045
77763 28579 16172 08637 03177 60396 11415 27666 22433 27531
52825 20717 04311 53153 27610 55642 22136 49170 96744 19525
97323 27719 21189 93495 92249 59244 21006 92112 25866 44339
03340 46969 10510 91549 20172 39233 33349 18318 41799 10799
30879 17265 56977 08739 29940 54982 35657 42742 53662 95540
15258 60233 15802 65888 96413 68848 51879 05333 59127 60967
60586 66288 35279 19981 53874 58487 98408 12987 39176 53834
56734 99594 82190 94081 60315 11535 23676 68544 58330 82754
48682 54003 67377 34694 31657 34014 36748 46414 05882 39791
21623 64291 30646 79871 00099 30934 54622 50720 95011 38042
98869 45495 86480 32860 07900 03136 26107 32950 42248 64971
88781 28940 10990 31041 23012 79956 67632 33303 85736 31408
17820 67931 72544 09837 12301 53877 79233 74495 23581 09886
55671 30351 29702 67168 37862 32212 53598 59893 69185 34642
31442 60704 46723 67370 08446 53446 53634 40880 85530 60278
63484 11853 65317 65375 27503 63168 70872 02403 80678 78140
35640 97933 27641 13684 88008 88028 94265 02085 78942 50132
55942 36081 26111 17501 78434 16929 72971 68327 32279 70140
86219 06772 66656 58587 40063 78058 53674 47661 60742 84860
38991 02162 29753 97127 59735 19617 69188 31437 00000 +++++
+++++

12164/10336/8016 kHz, 19-12, 1015/1025/1035 UTC

30275 44145 08066 83545 80486 88715 01503 18799 72790 08822
87072 32273 70530 60619 17685 24236 28646 61739 71227 07728
05379 43609 80878 03892 57681 22216 57709 98725 43750 04527
91509 90957 81121 72734 40770 85712 33776 13519 47765 13674
26688 84529 39670 80415 11241 35243 01648 75603 29973 24423
32853 96739 54070 01332 21278 67155 92051 42911 98381 52919
93080 64101 59451 08363 93350 43496 60611 04913 78966 31514
28441 22900 63768 33278 43122 11054 05542 83390 81055 43357
09035 32081 00000 00000 00000 00000 00000 00000 00000 00000

42876 21049 66708 20587 00802 95662 62266 98612 31076 42595
48843 61679 50349 23775 04522 17359 57287 11622 61773 54946
08012 09956 30798 55880 36941 01973 58108 80431 58978 04943
18809 22849 13993 36347 66003 52147 39514 21123 85771 80730
82597 94705 31146 28031 86772 81562 33531 71363 15042 53909
15004 01160 94842 00274 49926 22801 95923 58627 49314 72207
77063 93741 66401 37393 62581 23479 46824 03160 34568 23695
71881 61125 51772 66436 68287 52271 31095 71133 82882 34200
52606 73467 45703 90280 74043 41598 69884 22880 65718 94442
61808 97866 01772 01696 39944 33095 00000 +++++ +++++

12164/10336/8016 kHz, 20-12, 1015/1025/1035 UTC

03251 11889 31025 69152 10622 90138 63519 09244 56124 27538
23303 88790 40488 99981 26052 42195 90875 94037 33387 96487
12046 56524 69522 98300 39964 56302 98943 46012 21284 75449
51060 56759 67154 72025 02766 22998 54773 81602 54851 38303
75134 49757 63196 97093 50408 12701 10691 97972 69380 68245
30811 05363 14401 04294 18795 49140 78274 77022 91350 66930
94521 55976 80845 18782 29472 78235 74894 28879 09593 78849
37304 34002 82522 89738 71296 43404 35227 24228 10961 39808
17729 89425 51860 76204 45827 93605 56740 48131 81273 40815
97270 46137 12819 29863 17758 18102 86578 99891 31774 96110
59150 89728 87623 67570 71926 03183 63606 95238 70030 97492
78995 15884 14327 37104 31676 72233 59924 79966 98385 57910
99632 88539 58488 80056 95790 82691 27215 69306 48910 76678
09329 91818 76578 67401 09118 43046 01050 66103 57693 27927
68966 90734 43495 57193 51642 61124 56966 14481 99356 64194
85321 73922 48087 81363 18351 72924 02117 95358 51198 69796
40966 18595 95046 40942 24071 10341 31658 97284 91657 74826
72684 24611 85243 57504 09721 77541 36205 81639 66000 81792
95849 92418 85698 24428 05432 00770 21768 36788 29539 44072
08248 99782 01310 05950 27979 26233 52887 62335 11676 99949
29579 45990 29271 76245 11137 46668 59496 73548 88609 89114
48609 10827 70193 56082 94231 70498 14526 48552 15213 91509
14862 00355 93469 22292 82564 89366 98737 88253 03345 12483
32168 53520 64701 16544 49707 81597 77981 02403 51207 24644
43512 44331 46187 96053 32237 91941 32197 06017 82290 46818
46718 64762 33952 31038 78531 83160 51418 89779 49499 25382
04828 95195 02692 93287 10980 43752 57808 47246 56174 64197
19803 93072 49629 78377 51690 89756 80895 82064 47435 57682
79710 37988 65883 92030 01738 98269 11664 11039 88619 98436
73999 93806 75780 90197 59369 87352 46427 05190 78951 87584
55176 66854 76794 23891 69742 92659 09638 02029 04144 53830
14347 85001 41831 84791 23867 16615 72211 59507 17658 17389
88981 76897 17540 07529 23710 22526 64882 36633 13124 98745
40080 24817 23510 40490 10255 44966 80695 58893 16112 00780
79021 79931 33897 80298 67762 70274 73390 89624 38428 67521
97869 96485 61377 57035 76983 38363 45186 62528 08477 74854
17207 42620 69696 88959 48762 10530 84821 66981 73394 19107
18756 11729 71628 78375 33613 68706 20674 97793 68740 69983
32503 70396 30216 25416 28745 41034 00755 15936 25841 25867
05960 68560 28882 75326 97865 17843 57580 97713 41693 83428

52806 85641 16777 18409 37130 12479 67582 08173 27802 91017
65761 24427 25616 34413 00000 +++++ +++++

12164/10336/8016 kHz, 21-12, 1015/1025/1035 UTC

03560 33871 28851 01454 80927 25362 31728 53796 86630 44842
38923 13639 79690 51942 46217 23044 61219 81203 46216 19531
66236 19906 11231 19215 23159 24271 68050 59437 10657 22485
06800 11792 66555 77972 91063 01505 28483 11365 61470 94096
10936 04594 49919 35271 48462 35553 46641 54961 59646 16767
87273 71472 11579 36494 52150 56663 89503 25715 94981 48097
01329 99435 43112 19103 71687 45743 36560 42689 05240 61050
97999 10234 23894 54979 50899 90905 07650 73297 27983 42741
93733 12371 37220 11319 13729 35085 00000 00000 00000 00000

62774 33774 36334 72794 27722 62089 40609 31777 31280 26151
07401 73861 60743 60745 77231 09538 82981 47373 68313 58465
14237 31963 08899 29936 16185 73938 26353 87031 10452 87569
97666 17903 28787 61546 91074 62620 41051 67714 53475 69028
28239 94906 23338 76040 92699 68807 73792 47809 22754 43796
15573 07219 53897 77691 14517 42131 93767 25357 03306 82817
03071 12076 92123 74022 49652 72660 07936 90098 77901 67215
17065 66637 60674 09503 10756 47046 25920 68838 58415 67502
75208 31464 58222 28727 36335 32328 39774 28008 17197 93214
98486 49914 53124 28154 66409 39148 64858 36097 00000 +++++
+++++ +++++

12164/10336/8016 kHz, 22-12, 1015/1025/1035 UTC

Null message: 5761 00000 +++++ +++++

12164/10336/8016 kHz, 25-12, 1015/1025/1035 UTC

23652 23720 31319 61395 76110 16007 95381 58031 56831 86909
84333 64743 48881 83279 65031 53774 78302 34417 54454 37443
18765 44102 23632 06512 77185 87418 25491 88191 77482 98292
76322 72209 84668 58699 45542 78376 36462 25459 33446 64111
74599 55578 41641 95319 93052 16054 65829 29113 45319 89094
65658 81766 77984 08683 91297 80374 82746 89432 71447 21634
84075 33656 92456 86190 04716 27604 23244 81997 76198 62792
65709 15104 86565 43375 35314 11335 82488 65477 01533 37276
67967 79450 42851 94020 66802 70964 96002 82103 41018 21897
04130 61065 82435 36932 93562 52083 19574 46829 33897 57107
07076 24286 61053 92932 89834 73335 68024 63657 59020 78217
92978 19953 42182 22659 59409 78589 94630 15505 48035 00652
84264 83627 05117 51885 87050 18069 16886 93605 35333 84331
04783 77620 86161 32778 21176 43579 01828 70056 50260 42214
59795 77503 43816 32891 34212 87459 46521 28917 16194 53424
90500 89034 65061 75003 63800 78552 07725 63577 82479 48538
28398 59630 20996 06513 15836 37670 80586 77091 60275 59697
00319 75998 17271 63129 40509 45904 80615 94151 93188 27510
31528 22406 99312 64328 56296 97964 77386 64591 49571 36533
93214 68724 45484 43806 25446 95823 43792 14928 06607 67577
23223 69980 44311 33064 59219 11449 52331 42865 88266 14598
46226 45939 85982 86695 83199 07675 51170 56015 50890 72587
13018 76570 34771 20070 03621 59504 18852 86653 63034 67077
99371 53209 69026 30190 16160 20527 08724 75378 31370 21712
34349 72224 10260 44835 70218 37101 83702 64275 63196 54221
97142 04188 93803 99888 75642 82543 90149 80930 59747 09167
11883 23208 91826 36221 96355 71173 57601 84567 84180 84400
12527 94444 66362 42018 47727 73895 20210 90994 75174 43396
26200 99209 36786 00104 82982 99249 67136 50174 62723 33854
64476 82587 73965 38971 49731 82907 24193 25341 18184 10427
99296 44556 13512 87123 02114 50529 78881 71875 17245 92306
64781 18365 94319 99173 98273 40107 66917 43977 43370 31058
49309 95606 07197 15207 78226 96581 71658 23630 91832 26664

55269 22409 63094 38451 34851 39874 29728 75871 81786 66595
87920 11535 92499 26570 42006 63865 17874 43035 27287 79955
21275 47348 48186 95081 19880 04374 98920 04817 88991 52807
58882 10678 34029 83880 79907 25252 59882 06884 07640 47719
92317 74938 04150 45736 31121 69466 64022 04601 39665 66783
41079 29636 00595 35264 27944 12736 92306 36503 55616 99014
65927 28925 05260 14480 27450 97271 49381 40689 54755 56401
64596 47310 04166 02848 83157 18532 86248 12567 75444 34258
15540 08314 80598 92027 63885 45086 27488 80589 72074 87069
13194 37421 00000 +++++ +++++ +++++

12164/10336/8016 kHz, 26-12, 1015/1025/1035 UTC

05413 03659 37714 32022 98138 98816 63617 74501 87382 89311
37779 55200 47629 10929 30893 61436 59781 64738 06098 72849
16743 63769 46100 65742 88867 79004 76874 00329 03957 58117
55129 26830 21497 15413 11737 71361 05824 16388 68303 87533
27897 05367 69071 84719 50374 49628 95342 68916 75685 98489
54610 57146 61762 80755 61576 51324 35150 88990 53265 82542
56162 24049 05397 61693 15770 98282 42217 97389 68923 20895
56979 67099 33986 13848 85248 52437 12963 31778 98235 74567
12227 84356 08329 38083 00000 00000 00000 00000 00000 00000

98630 16309 11485 16998 96394 95715 44950 83974 16923 63606
95699 19489 29798 36808 67467 15236 33598 83777 55348 85727
71079 44251 62784 46978 91330 83754 92867 66763 69827 37664
87394 53655 22353 24505 12116 77008 73682 33180 11613 35094
67009 13804 82241 13569 25018 26846 36575 01455 98560 30257
57798 56836 63869 09272 67472 39441 54237 78575 55116 52317
37115 11525 43048 59763 72547 76099 84912 73726 13904 82284
21339 25844 36826 70567 41166 67315 07338 96233 21668 63788
25048 89147 46227 77463 02399 93713 22883 53585 65873 18702
52192 39091 00000 +++++ +++++ +++++

12164/10336/8016 kHz, 27-12, 1015/1025/1035 UTC

27381 41904 23761 50262 48951 98826 82910 64681 44391 42640
84571 33510 28956 56539 54263 07080 42951 60285 56980 16291
45546 48041 30119 56008 25487 10683 38767 80264 70890 53512
08028 27296 53065 45329 12212 60857 02238 59777 25115 87175
35306 94923 61870 36129 06250 81988 66250 39937 17937 19178
23601 71887 44592 91553 03927 80509 96411 62867 64834 23061
80765 50315 69040 71780 27167 18135 96098 91311 68195 50984
53068 10776 93573 93049 13790 38900 19565 63813 41461 95651
40900 86410 74202 58811 57403 89532 78295 48933 92519 68797
98792 01113 45919 18526 62168 97011 47373 69878 10713 55576
04089 96260 73350 05882 58682 71966 02575 90543 99992 94969
32179 73136 90609 82192 35480 48046 26398 91577 88712 76210
75955 76703 69291 95168 57597 51883 43624 76869 05651 36681
24157 31668 87493 20988 00352 81952 65435 43185 73278 53840
48936 19977 48498 60368 04338 63811 66944 74638 14309 48846
78475 16332 04179 11378 87793 00041 77360 95685 27409 18860
27035 81225 37346 61663 16297 52105 56279 87512 43947 94779
53772 05632 38113 34916 58327 34385 44887 49347 60916 37697
04180 14063 98696 62351 29961 74175 48574 24604 37082 46798
85336 19553 81874 92758 84009 51703 08701 18116 71148 10146
19645 91386 54735 36825 09551 87432 87384 61288 33559 93953
42531 00394 99368 41510 08297 46386 01385 43015 28719 91794
38946 53644 47033 64582 85832 87086 30688 71989 03217 49087
82789 76501 13269 74203 69663 52388 75591 76730 19206 96241
33672 51721 69735 89961 23545 87036 74013 39615 61846 72375
88130 38612 55451 16213 99938 28641 99882 06582 76732 56787
58672 76646 36844 52289 40870 60992 74860 71351 18888 53582
95133 83470 53855 03302 33288 97697 20689 08051 70395 52280
50053 93299 69518 16120 29407 86053 89303 75487 30311 20176

54310 04426 54204 33984 86767 42282 13815 46077 29446 26809
92407 20316 14327 56264 48053 55909 56760 78960 55061 63526
79801 33685 00029 13392 98409 89440 73935 66279 18193 57941
28717 23365 28399 77293 89263 55855 93826 90316 38779 00344
75351 65915 19429 30828 33755 36973 15520 43320 96537 53171
11374 13997 92407 72196 41104 16820 83140 37763 72472 11567
47482 17884 92012 38208 96788 01844 83614 78574 27100 79288
17753 71241 37321 49890 93543 90573 68202 37012 00825 25874
41815 03815 94441 21560 06198 95244 97926 64314 14862 54335
78765 28152 95860 86261 62421 13325 90082 68591 77331 40021
63481 31160 48038 82780 22909 54013 78654 56573 90262 56855
93846 90473 14605 40403 00000 +++++ +++++ +++++

12164/10336/8016 kHz, 28-12, 1015/1025/1035 UTC

65096 13548 89326 99914 56756 12648 36370 30635 76822 90125
33632 86921 11167 41540 64845 92104 74755 08292 44893 35028
58950 57910 40017 64843 74230 41400 73279 12074 24258 07320
13717 28131 72229 77288 72626 60486 85447 12607 55410 05661
69059 26676 42433 07248 24885 22910 97313 91129 96284 62815
26100 55101 85001 93941 35759 55068 50906 92382 65421 55016
30599 99510 88814 32935 35789 57637 11330 59894 17402 74295
10151 94443 06344 69810 90887 59534 66863 87869 59154 94153
23455 73759 30526 96841 47221 49973 27302 41087 00000 00000

66270 68833 05969 24881 68839 76778 87890 78977 29254 65916
55906 65750 71887 99394 07176 53106 21795 05103 69204 93866
94625 93973 35107 20881 65925 75261 83753 66452 62028 79730
39446 79518 39711 26690 50852 39025 46808 95811 93847 86931
80968 89674 27983 29270 88748 97968 61251 78726 72219 99292
02835 37150 95289 61491 08537 41445 06908 26465 48574 21280
23366 90386 52417 42051 36855 15267 10374 31537 42490 32808
36590 13681 00975 26476 23180 97935 79093 02735 40135 97626
35232 87380 60741 75737 42103 07904 17160 41588 63857 47834
15879 46823 29788 83986 67705 54156 71800 42560 12011 77306
17837 42101 00000 +++++ +++++

12164/10336/8016 kHz, 29-12, 1015/1025/1035 UTC

Null message: 5761 00000 +++++ +++++

F06 – FSK 200/1000

Link 00000

Note: all 00000 test/trainings schedules changed on December 3rd
Most transmissions originated from Orenburg, some from Chita

17422/14977/12224 kHz, 0820 UTC

17422/14977/12224 kHz, 01-12, 0820 UTC

11100 00000 35641 30068 05029
81552 82522 06062 59910 48412 04711 67695 77693 66164 41483
10639 83028 21998 46811 69956 52282 77993 07359 35195 89324
09142 51267 88054 82603 32456 12505 17879 51374 81893 24218
82174 17039 08768 39528 04338 60507 12330 03204 25765 51537
30219 22651 54558 60987 43459 11660 77994 91913 75697 05334
30949 90447 91366 69660 37470 22408 22460 54136 67679 26563
78611 60906 77194 80491 20158 28836 21261 39985 98880 55971
60774 37916 96109 08801 02388 53519 12880 91791 39886 88021
91823 75597 89021 07556 75489 07410 32985 39293 30774 51865
20725 31747 94156 35966 85265 15162 17421 96432 74250 22942
18549 52942 09871 60060 67485 55681 20375 29361 61448 80649
10357 51728 69475 71163 61987 41027 50903 48976 84402 19770
77453 43474 53419 86446 13624 12375 08769 70451 35065 52363

01040 35538 89633 23110 05512 17762 30810 33104 45081 08813
78165 60743 89441 20717 84567 09111 22735 92803 14812 17883
96835 26911 65367 80805 12480 61742 79920 42170 95397 22324
40413 70736 59671 05496 38246 34527 75469 87375 55358 24944
83377 63738 09847 03641 22491 59231 45829 70578 64465 66387
72233 76714 70713 00353 80196 29764 14934 80278 93767 66453
38158 73307 33598 89724 28504 62098 98308 94310 42827 21821
93217 29139 12450 17562 61117 69975 00166 58081 94800 00769
00692 66845 35997 27120 01775 56294 90434 70319 48124 16262
13697 15389 75366 52490 47568 11560 06206 36193 11559 48640
25980 50575 79286 57687 79795 45272 94416 09442 58440 34636
05834 08949 65239 00806 26744 09810 81071 87497 47388 96502
69702 95460 56053 08201 90653 15526 48082 02540 11759 60191
27543 82757 38636 79682 31279 36652 03225 73418 29996 60797
78601 32829 86095 68444 12248 76458 72930 04556 94968 63285
85175 16405 07638 95207 94996 53179 12962 44627 33711 93023
84458 68063 03623 20967 89818 91746 49719 06157 70860 80113
45920 51861 87247 23157 75563 16646 16166 03559 10823 30194
25144 29544 20728 52184 60206 44395 62494 47674 16549 48571
35840 77432 83910 95345 04972 26634 83858 45936 17945 20390
41136 95033 78063 99516 56290 02678 47028 55007 71757 93421
84500 44623 48586 08722 53789 40057 96001 23482 48332 78100
20980 62697 18666 14250 90035 79133 04576 02189 20404 77981
02106 47599 42801 99416 20118 09708 02955 95010 06092 49042
94097 58925 45855 44802 37599 99831 66915 30305 53926 64485
00103 19934 91136 48907 79197 26022 03065 58087 83233 89123
94412 00174 51164 70097 74914 26062 23582 77442 89776 50339
91171 28329 18577 14511 54592 66755 59795 78445 25475 87272
43196 50988 23215 37712 37211 95666 47256 99357 43543 72430
29554 67991 96154 01369 96895 84258 06849 59332 97771 86789
24606 45410 73494 86507 00893 76181 78228 85567 78104 96699
77649 89362 43341 18134 80888 85036 14710 18001 85477 84929
52326 63945 39963 58409 11215 46983 53886 00521 78289 35154
09813 10883 60603 83530 57100 81280 17061 61503 92093 15386
50764 83294 54432 29046 04202 52628 94156 04572 24450 57500
89306 97470 90585 75981 18695 19057 20489 78997 19537 43383
99233 41014 84644 11916 96243 94570 78843 34413 63406 89604
68500 00000

13974/12161/9923 kHz, 0620/0630/0640 UTC
16333/13451/10232 kHz, 1100/1110/1120 UTC

13974/12161/9923 kHz, 01-12, 0620/0630/0640 UTC
16333/13451/10232 kHz, 01-12, 1100/1110/1120 UTC

11100 00000 75146 30069 03129
03566 51292 12704 78406 48894 79970 97426 64430 69867 33150
75106 62824 67177 23255 27671 57225 03998 66122 09180 67315
00700 48352 51333 20138 10140 97488 83149 92198 46955 22232
00730 02065 69289 14841 48064 58136 36406 32942 94806 91284
90619 02920 21967 27033 36970 12066 51441 76987 19103 81702
80332 54182 14765 38434 05996 42046 99375 25740 52739 71665
51099 23085 36126 87039 95856 64737 25807 03004 15718 75476
92832 85525 69111 65393 52369 09049 96287 50947 37767 70567
08473 94488 66908 65139 84148 79425 86785 52502 20906 63217
07233 69496 16297 75393 59756 67969 76126 52775 42405 82868
73632 29095 36609 60180 07969 21195 06927 99435 35452 78997
19645 90443 71998 91431 41162 48955 90186 65503 02090 80939
59386 20701 38022 30159 02398 65913 42897 88739 67021 51063
95892 75404 36018 10630 47803 11085 23877 41258 77813 46571
33843 80627 56634 21907 73632 79793 76908 62208 53276 86157
36857 39599 13536 79280 88066 55938 58315 26711 83388 26046
89523 52018 85867 66098 67802 32228 24645 16890 47586 66830
08769 56643 59907 85563 34853 83058 41389 87151 49527 69292

32878 26190 52597 23539 96133 90361 51882 06929 22028 35168
05632 89397 28680 68375 13489 48247 72977 01349 41928 39057
23910 09473 95091 93653 71151 68840 66986 24816 67347 61392
35957 42410 27516 65716 87386 10628 34025 75659 75553 01038
20571 13977 60591 21118 33599 33176 81479 22963 94598 20762
51006 21862 11720 51058 83645 79415 14146 50807 92279 30907
07647 70718 14703 61579 74773 80161 55858 61545 68114 27203
56722 13986 70048 31143 25794 96338 17454 99778 94122 99168
14781 88550 79797 92390 83955 43770 72856 93557 24522 97126
76540 17871 82489 03641 65831 14629 51301 40268 49213 19786
53370 07333 44595 79305 75622 99984 05330 23009 57476 41853
57267 93598 54705 98111 32781 60545 27615 10108 12711 73516
26975 18773 12139 35061 76140 68986 70968 97202 72806 12086
69310 00000

11100 00000 74631 30070 03129
95441 59570 46331 46487 82852 86792 62877 79330 37394 09839
23451 77189 42943 25415 73184 48705 32631 23757 61183 04030
55338 14869 40472 98301 11823 02909 08663 78729 08913 50898
00279 89987 05203 02963 66687 17589 46696 56273 04554 73941
15816 99879 18778 56764 42244 62635 30838 34554 49007 37378
68480 38791 32253 73581 97695 67572 98163 55640 82920 30355
05426 08997 86392 88501 86710 01277 42611 71316 47592 30643
68825 72251 66347 18535 97501 54985 43072 48994 41699 24038
71546 21761 29288 39643 32298 11324 66962 81527 30290 49113
19965 91317 25677 71036 18482 48237 31065 97518 26630 57803
73711 38260 34976 58184 46105 38886 62540 73938 93363 11676
79192 71784 10883 17567 84414 98126 50676 91607 03336 02997
59849 29067 85992 80110 99633 74358 20752 77727 18431 80005
97832 59996 77288 27794 83855 23476 51268 29329 93372 98523
55118 48177 68306 90230 66709 10769 01232 38594 46651 98260
63446 02622 77551 36552 23766 98041 71327 26617 68973 43318
18033 82368 61871 93654 74619 68225 97870 67673 17078 53573
46042 96454 04399 26309 85591 49629 27784 32653 73671 18212
43552 35421 05485 58857 13170 07936 52608 29228 98850 05778
90475 69165 88160 83550 50961 07351 46063 48850 60995 98138
17839 70639 53154 18255 31329 84193 59160 78043 71927 59820
22230 26958 28769 27538 89204 57971 35540 74893 68406 40601
54359 60120 64154 37241 76165 07806 23878 82469 36041 79275
58763 30045 66917 34862 23875 97261 40095 30266 68688 61350
66021 14182 93964 87622 53754 19375 75920 94041 52559 64416
43608 81905 24071 08235 20466 87326 18460 24704 65961 33205
53037 89419 78272 86378 16743 95884 43936 49626 48948 43274
45413 43238 66010 62961 62497 55808 34023 76008 28512 68961
11189 98804 27225 85696 08268 39026 41428 17018 40520 49124
89113 06570 69597 29514 08182 97936 58807 98668 75628 74310
90199 72278 72134 25210 16903 18695 28010 19931 49152 82826
70310 00000

13974/12161/9923 kHz, 02-12, 0620/0630/0640 UTC

16333/13451/10232 kHz, 02-12, 1100/1110/1120 UTC

11100 00000 37158 01073 03029
03010 43760 30124 85197 52724 55675 44613 23126 24388 97046
31467 81099 51422 11313 64585 87178 41976 53459 65067 52698
56905 23634 88025 00073 17526 49686 54024 13737 29097 48314
73584 56426 30960 19520 38193 17977 09276 54047 76255 88826
33300 58500 97423 75415 01128 27821 73744 99666 05849 19817
31056 49739 58052 11435 49084 74231 25616 41452 93659 37039
76716 69281 29504 75034 37001 04586 87026 25772 96859 87364
81546 17401 29725 23239 08415 37968 07351 03574 62433 26307
23002 65175 55040 51695 58486 69208 27682 74466 55977 04050
84816 04769 80553 41750 94977 01660 84403 02801 33350 79711
08628 08886 64283 15330 83570 28309 87181 69966 13633 43786

94213 72410 57485 97287 13276 27355 39641 91620 34647 42414
54301 53433 44769 90790 47432 87336 15597 51770 87997 75825
22954 96239 64293 04683 92324 09410 66311 18573 95528 67931
40079 36481 46710 13598 24913 81716 71084 90815 09512 06149
44869 40027 67841 13370 29852 64281 60738 10474 51017 11145
14178 43127 90687 37112 10135 93639 97590 46746 50980 46704
34322 23696 83358 52496 11610 95805 92460 41838 82847 01491
02658 73083 97300 49566 45414 15441 35463 89731 80422 98404
74958 35873 80901 81990 60465 09395 18990 27454 76066 94758
12176 73186 43491 24406 16699 45482 94662 35281 78864 58842
92009 64102 80198 85527 94957 73609 37397 99035 96063 26943
42994 21186 75200 52360 57686 27511 45263 65470 90260 90633
87798 41179 26057 66320 02028 52521 89894 51901 15680 18584
54425 71729 31078 28689 29816 69398 04917 35044 95731 11361
85175 31030 61527 31686 53587 57321 65614 72594 47120 03030
49913 00501 56895 94052 70345 02217 27987 85812 29300 91027
08537 02587 41006 77315 21623 90598 65758 83421 58318 77070
73920 07433 15385 52420 25658 65585 26023 17787 77329 67963
57136 65080 50472 07191 71527 81735 24326 64797 78484 97361
73300 00000

11100 00000 37156 01074 03029
34538 87052 14976 52078 03649 10008 00265 48582 23867 36600
45793 64337 69681 33193 27975 79439 06689 28327 67321 60479
63020 13617 51672 70465 47749 79516 33754 50343 27198 40624
76482 39276 95101 30238 44459 25880 97550 68825 65104 47612
98660 36118 07843 80485 97897 01495 54805 86299 35006 92363
61465 09589 43469 05216 30659 41454 38440 89038 48415 92486
50089 55785 55043 41951 38290 97582 49917 55432 49602 15358
53377 88128 02463 88588 74208 15967 11554 40844 56115 61752
87251 80823 01647 08510 71122 23561 96989 17229 93388 21503
86086 91189 63296 60129 67503 54059 28349 97815 12490 33937
63304 54621 27670 70556 74910 79693 10795 87812 33294 51962
73007 98805 65951 93838 26036 35600 75265 02576 57781 20871
65509 28997 44706 23638 90246 58280 74493 66261 56086 72476
77379 74905 43724 99445 89628 90637 32201 77925 97572 83361
37326 93382 35644 35776 00195 64358 36867 89528 86745 83994
59211 70778 84284 46420 36274 37327 05927 12680 25709 14532
38873 95917 53851 12165 97490 70473 79966 39423 67096 34593
28571 60269 49416 81448 63252 56294 45633 58139 00437 89277
37971 17368 86523 80657 55756 91484 86850 50069 36886 43578
59907 80157 20642 75307 15233 99852 32794 96157 78453 03278
48920 83811 11883 46501 46899 90319 64121 89302 84481 73755
47103 74141 62914 60056 64020 59531 62529 64716 36562 49985
61239 29039 04908 89737 71889 50621 98914 12419 59387 12767
03928 63878 23559 42515 69664 40336 58666 51964 35600 09057
25516 42590 71288 03727 97111 77231 55070 11733 63771 49452
39595 95511 08661 04939 77593 15184 89672 94649 06349 44628
88586 64380 14285 98215 13462 10446 38135 10366 65176 56167
64103 35125 04078 28839 31476 57953 77658 41881 62100 36907
95211 11842 64197 15396 60388 64967 83909 73719 97611 12998
03051 11555 33271 02890 06487 78591 17639 70160 67574 95493
74300 00000

18044/14973/11632 kHz, 0900/0910/0920 UTC
13952/11135 kHz, 1240/1250 UTC

18044/14973/11632 kHz, 01-12, 0900/0910/0920 UTC
13952/11135 kHz, 01-12, 1240/1250 UTC

11100 00000 15873 30071 03429
51552 80642 80691 20247 71253 00748 87142 71880 75021 91248
16230 91532 00907 41504 85225 92986 29905 91914 48264 82532
46569 05748 99190 91970 97766 31676 28026 79679 91774 67981

85729 73188 04882 64358 36953 51690 87713 22245 05470 91930
88440 79635 41964 25925 35071 91295 68876 83913 44016 40330
81979 21016 47109 42036 13394 51019 54272 25971 85698 35724
94008 07196 11854 03295 98924 82597 20617 94061 28448 13262
12116 57187 45951 78811 73306 46659 92444 14656 07968 90036
24054 68087 60936 28382 05440 34165 41276 50824 76371 57320
74045 72194 33631 09622 35382 27157 95435 81636 50565 79284
40564 46832 59753 68514 39386 85445 81094 45421 18964 78760
25878 65740 29431 09743 45425 43582 03823 30951 14416 86782
28555 85670 80311 62810 66734 93214 33596 68687 01484 34315
78494 03341 91482 97553 08868 65843 55893 72765 18978 27962
30876 02347 03795 54467 64870 26419 28549 69632 44833 82772
72205 93354 70624 47534 74552 95352 19720 27494 41592 40863
69448 40034 88915 26279 68933 41586 27759 28164 77929 90565
23419 14091 14740 55715 80720 88726 80408 05799 36222 73609
51360 41571 61849 44063 57695 55984 09637 71663 89305 33543
52276 45723 97022 24760 99148 72206 80962 56651 92536 73532
83265 65200 13693 37685 27429 60729 53469 90086 71395 62126
27175 86655 66604 60849 38366 51494 40193 00658 21247 07650
42520 84003 16370 74367 27212 41017 59329 29295 55925 22034
87123 59064 44986 99586 91886 46680 96128 90813 76666 69180
78492 36211 92945 03971 54079 95672 64583 67296 63860 47752
27875 33279 16704 03083 42406 06960 48335 67896 52404 49779
42492 18581 03258 80938 31487 73205 42900 03077 18336 70955
62752 25703 87672 95422 57888 84821 97609 02671 11145 82178
69746 40030 30828 92581 19512 66549 96729 12727 94020 11049
94131 49954 09646 28703 40485 74396 06476 42098 34447 82934
61861 77705 81977 48412 30224 33695 79169 52536 01335 40034
56504 25914 94218 96814 14224 43652 28909 01737 03498 49957
43212 02690 33085 10180 46679 36370 06168 13744 28975 38870
17050 76380 64826 39177 62405 15126 82745 71523 46765 94503
71340 00000

11100 00000 24893 30072 03429
85263 18816 24994 35792 53412 05080 33439 11202 34160 16300
71769 38116 65664 61496 51267 78883 64320 20963 39991 81687
85475 18585 68070 25757 43224 89546 10045 51830 56467 79404
23945 76309 13434 35437 51799 12540 71848 76217 11258 47664
36924 50349 33006 48470 84381 20298 23680 94691 20672 32254
58946 63177 97592 57981 36454 11382 23491 19558 43330 33612
38231 32977 17921 88458 44120 31532 10447 20864 09980 54916
72290 27248 90552 14993 28560 37150 28420 74156 13667 09795
30632 97232 74556 69058 37237 62843 71321 25230 23880 45197
29849 57043 05685 02208 26217 52388 34585 30917 07518 31161
07298 76123 78780 98673 26138 03187 10714 03069 79845 70913
47924 95178 36621 65493 22309 14262 66553 81400 01324 48052
35637 60200 25788 40569 38553 23216 16938 46113 62404 58970
57401 52892 98602 51352 75784 24720 45083 59449 89563 34203
66040 84968 85961 85888 01369 88198 45501 52777 43000 38444
37923 74658 20324 09869 45150 91696 61872 58685 90998 11710
25467 42632 82304 34582 14010 68675 91171 82230 19105 79864
33017 07591 59696 17288 20102 81033 07921 18070 95244 77660
19350 35331 75393 13925 09813 91064 59748 06996 45991 97860
82125 55320 41973 10408 12243 63813 78947 92729 35623 62111
90230 12074 66793 89334 78818 95396 75477 43785 59634 09391
30462 21028 43685 49977 90823 88787 06288 52214 99210 72098
06571 56550 56861 47146 50436 92360 85047 67235 14154 64713
02632 69330 70803 55284 74425 34596 86724 73385 10036 01377
80178 18009 17889 54057 59401 36863 44112 36247 82246 93304
50974 61701 04587 77125 14558 21453 09682 20122 46359 10559
35682 02387 68504 22920 43477 60266 97258 87602 92046 31905
14537 45105 13535 01335 32074 86992 05208 27031 77972 07364
80500 65886 60292 39559 46325 28519 87380 76567 98847 26880

49633 98555 54897 00076 92358 55971 61216 29351 34451 81642
48726 78170 12552 30329 23998 18339 55378 69135 15126 28087
17929 67263 14171 73071 30227 58493 83384 06226 40309 74880
17385 47390 56137 75062 78476 28665 16127 15641 47302 16431
42973 39067 56018 45959 60464 76469 96175 29558 77975 88855
72340 00000

18044/14973/11632 kHz, 02-12, 0900/0910/0920 UTC

13952/11135 kHz, 02-12, 1240/1250 UTC

11100 00000 37465 01075 03529
22382 72505 09061 34832 70182 62048 35164 85701 68403 82968
41086 83144 00925 02883 80996 53447 51407 76199 82486 87277
11732 30080 95099 76075 32730 61813 95987 34095 03128 77317
01138 48276 67659 25432 55598 23136 20272 07700 01150 12867
33367 68332 44855 57828 09015 94028 76919 67625 63082 78348
11315 17949 78199 30327 47588 53379 86525 32012 77298 13334
68219 74613 83524 23340 76588 27959 06876 18840 25821 22928
76441 93688 02262 51573 29119 90556 85157 14599 65763 75410
87815 70887 17584 63265 55100 68771 21241 87386 78230 63728
26061 29150 12784 52182 81824 50722 10874 76119 80559 97761
03416 78178 50773 64337 93433 11926 27558 37225 46334 36992
47027 61801 88095 53755 38489 96700 47304 57267 12825 49422
01973 15104 70486 10097 17082 98829 77567 25575 83785 23758
83374 81032 96210 76710 77940 81294 26794 36439 12914 49041
86084 16422 34273 82108 77971 84704 00287 37041 86243 40479
83165 31124 53443 52095 77847 80039 37937 86173 66348 13365
60155 82533 11110 35094 73919 54596 75802 21354 23813 19974
96989 72528 74515 90913 55126 61952 23058 79298 18297 48388
29916 95885 57154 44444 29895 48467 54480 58153 08736 68646
57820 49872 56376 21915 48616 71702 32819 80720 26280 81624
07527 65203 30653 49518 58294 81303 51273 97269 40528 10914
96902 40150 62877 33777 23743 21645 30145 85800 45782 58930
39427 83490 75704 41187 40406 69186 69807 47925 95748 56780
75358 79523 02533 82613 03833 17157 60651 91241 78463 54308
99121 10740 29548 67054 96249 97256 35947 15301 54571 53487
36213 92170 16522 50763 57779 63713 31763 09442 37659 66143
12110 17283 33084 52785 34990 90502 45521 07903 81377 07191
06509 69626 19138 67777 98740 29135 67715 62239 10845 98302
05115 48731 49297 62990 03094 73332 55889 64167 01529 85589
04210 74049 57866 29552 73563 59451 32620 14982 23772 49528
96829 98425 19285 50098 72439 28840 76049 71742 41521 37453
29576 63849 85278 76550 47619 71816 38779 36880 35939 59578
72347 98350 10561 64648 35547 93721 34971 77881 24708 89973
45702 65115 59923 17034 14727 72908 82451 98555 22109 85537
08474 64439 37342 25454 00128 49775 32827 14389 39777 25789
75350 00000

11100 00000 37461 01076 03529
54062 56299 15066 25450 78313 63305 96328 50323 32479 68179
16234 53997 03916 52316 79780 26580 43723 49017 17521 16027
42640 41732 70493 21549 41800 36602 46733 44917 33050 82773
16556 35627 28495 38892 38791 90845 03975 09234 35176 96073
46153 97889 55060 17476 57907 54472 97647 81810 01703 09749
83936 04884 85651 24659 95556 54485 21924 01150 22688 58734
12222 28263 88246 95768 39977 61913 40534 25718 73990 61797
31524 50910 13172 33868 22986 15224 27088 51812 87624 78547
71995 55969 97429 27273 87050 53132 16421 06757 00382 65661
39967 86697 99715 03354 47885 95357 47238 56501 63492 83570
43378 33584 35800 04470 69215 92022 87039 19884 62178 35437
92715 69316 04735 75850 86358 62479 30759 84269 06169 81279
79259 78074 25756 02231 50159 18678 36134 75203 41817 17860
71182 19468 74966 76241 93743 22952 32777 02320 84563 55662
71710 85509 01241 33208 82867 21628 99390 91350 08513 14249

33197 57535 43456 00389 77553 30322 75991 73931 38968 02678
48069 05254 47427 90040 39399 80479 46407 49116 05163 08791
23211 98328 22029 71257 46829 75872 22154 09596 05509 96296
19862 78312 61213 91564 60686 08665 63167 47522 47462 57870
87671 71711 23158 42011 96366 53477 15129 76070 30157 02287
70492 69529 80948 75214 37293 50967 08424 29525 71165 20114
94006 61289 72165 50765 49239 15974 81473 93028 20723 81942
92636 48314 58845 02802 57062 15522 42451 69533 88424 31851
76667 78350 95696 56690 06055 65214 99472 71992 10279 52942
11286 97604 74492 71862 80598 44974 51608 39930 39155 57667
58653 13260 97391 12147 74400 43006 72572 77237 30443 99523
53365 55719 12931 49756 30519 56493 17122 98783 48350 70744
21964 31464 56712 50550 76885 15114 68144 13366 17966 49162
49882 20829 55707 72711 05415 05313 01561 65945 25292 42674
25419 06327 11843 94634 61248 65514 07515 69217 03052 57942
81519 72699 58359 76991 54453 51497 51416 79703 65603 47435
93270 05965 12615 14827 60943 43097 18209 72818 52863 71802
03637 91409 12767 54383 73561 34620 39234 51199 42054 09208
23062 76271 54391 92397 79657 27989 84332 37056 68630 55853
11586 77734 17795 49191 09131 86035 93735 58781 95087 48734
76350 00000



Siemens telex and M190 cipher machine for teleprinter communication

15751/13946/12221 kHz, 0730/0740/0750 UTC
16326/14980/13375 kHz, 0900/0910/0920 UTC

15751/13946 kHz, 03-12, 0730/0740 UTC

16326/14980/13375 kHz, 03-12, 0900/0910/0920 UTC

11100 00000 32574 30080 01029
59272 17672 50259 51612 52829 68026 98756 97163 93076 17548
16993 87488 70388 82438 82636 69197 84200 66793 25698 15084
87122 51895 18790 94133 28755 84056 60048 04923 16398 46926
78431 20820 34848 29205 16055 20455 92458 23716 67279 01869
85663 18751 79211 03799 99138 67651 43328 82527 83802 47534
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16326/14980/13375 kHz, 04-12, 0900/0910/0920 UTC

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63061 23415 56362 36115 30488 08069 87843 87593 23382 75729
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68567 34523 35164 73277 66339 08892 56726 40532 54025 75391
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83216 63207 43453 52408 92202 73131 46866 82488 27875 78921
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02100 00000

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09048 28761 79134 50038 24645 47771 87031 92324 42967 38186
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12938 69494 91729 20087 72520 36588 34716 80713 44668 45025
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94460 61915 03938 62026 38580 07963 93356 64692 28087 28094
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63370 59626 36960 92775 87058 06800 33567 64978 21146 78830
82856 62845 96405 28784 21118 97690 93694 57404 09368 36095
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11100 00000 42198 04005 01029
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85276 31628 58310 26248 63009 79355 84756 59925 50622 73614
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99902 89664 63551 80378 36449 76423 99016 73773 22342 93341
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05100 00000

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16326/14980/13375 kHz, 06-12, 0900/0910/0920 UTC

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27942 68741 55667 11211 49865 54685 95820 08190 36044 93080
30685 23807 54891 62496 10603 72252 64726 66419 87452 60155
09910 57684 55560 84900 81142 83707 96612 52950 75853 32210
27020 10387 19639 82111 71144 02837 34656 89293 08863 06988
11100 00000

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09004 80183 70749 61961 60245 39374 81511 89330 62448 64982
21478 43609 80190 56042 41551 32992 97875 26739 48480 45302
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59996 83743 70723 18753 09034 58614 59794 69244 44898 43521
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48725 73134 34042 80271 81818 76230 80154 76388 52184 87036
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39908 70490 86526 63704 66440 48647 48817 52908 02287 82386
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16999 50481 25914 41548 28879 20440 23318 40734 56256 67609
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11100 00000 42198 05015 01029
18836 33758 61338 06774 10143 25452 06828 25480 40717 67344
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90773 20751 05917 93220 87521 25036 53019 71860 70100 53464
16102 08294 38897 38320 83319 51951 59409 73770 33884 15773
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67785 43230 75323 49790 15500 52741 16541 19013 51419 51975
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48536 11476 88563 73864 64269 83638 81620 24084 58682 65562
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89396 91148 53138 74569 90838 01142 39583 01981 67772 05028
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07121 53078 57753 14566 85868 03786 51495 61147 92392 25895
16411 92245 53823 29446 49654 03371 71418 14260 92972 91529
46484 43291 18255 76672 56397 66479 65504 85361 41656 99770
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34411 41472 74366 45554 53943 77519 25338 48138 75719 81743
78559 51586 63941 99158 54087 06157 94788 10045 25273 13344
24425 13758 56545 08554 71174 83335 95205 13814 47789 70598
15659 52684 04752 66418 39523 44560 70557 45854 80057 20558
99894 52838 84345 28179 65685 04104 71665 16917 55902 17030
91493 22019 61114 91111 49572 88575 63684 97716 75480 03133
64576 57845 30149 25007 08687 12557 76752 34495 94652 15757
63416 40175 80072 04046 91180 12460 18071 23296 65657 35625
86150 16661 55807 95470 93266 03694 08293 44817 76058 05265
23100 00000

11100 00000 31620 06024 01029

93205 25405 81503 81963 31390 75603 14336 82579 52963 57076
95488 86080 03203 92174 91570 74810 15297 29147 30323 94961
32682 22552 46431 04419 42019 66897 93463 51169 59002 94434
76600 55718 34185 73055 85856 95950 71023 65218 34479 17862
73298 33852 32208 20612 64132 06169 48084 89332 43773 31323
42507 74126 78327 92856 73198 38690 36648 61868 04803 27011
17550 01837 76767 21561 34543 61052 09225 91436 50276 13573
51547 53878 77873 34661 03258 97599 91351 21624 62005 41379
12310 96006 78264 26336 65074 48068 21469 65340 17488 09480
87258 97988 49533 65186 00521 24579 16971 40359 93928 17530
24100 00000

11100 00000 17439 06025 01029

78008 48120 62121 87944 14132 45374 02968 21984 18042 56850
36680 55693 29792 19025 01667 36255 36049 94007 27398 80636
44667 11188 86386 54195 71478 69914 51325 75168 56470 89146
87106 93474 51551 15018 32376 17268 47078 22244 50340 85687
29350 70318 53482 11235 86239 00433 31910 40215 03156 84049
39988 04687 16536 59083 20969 64346 17030 14606 74297 61801
19593 10036 95274 39645 42651 39725 41777 92805 63542 78906
07713 54564 42406 71915 07902 39721 31730 48642 04072 93314

13719 80137 26653 18354 32682 09324 72063 80984 14640 17734
80167 16539 91308 14224 21599 84901 70682 56605 49636 48628
25100 00000

11100 00000 36249 06026 01029
44243 60595 31738 25877 71358 10887 85191 45220 38902 55005
99004 86552 37636 62842 78080 26601 87300 88649 46386 23752
47576 44567 08348 93776 40459 31283 95898 13781 13763 74256
43339 65316 00408 38947 57239 52581 53206 23482 73528 56671
59828 52209 18993 11784 67615 18558 19349 14353 72960 50659
21091 01014 54918 98156 19286 56364 57743 63646 08527 36444
52041 27179 99204 18876 29219 37274 66313 15604 08928 66868
22945 09162 64177 57644 35696 98428 93815 01180 24147 64773
97057 30345 11613 94567 29755 19397 19348 18970 47092 16196
21404 56939 62388 54998 02310 72403 76711 23241 84776 81532
26100 00000

11100 00000 05617 06027 01029
98581 99883 70779 82153 23451 76686 24765 40529 50441 51552
20455 34678 44099 56574 40068 59453 72511 76298 01913 59300
97430 92125 51151 25834 80915 09235 63168 58404 06899 58212
20462 92338 41148 88578 49020 24544 78037 96388 25101 91161
47569 53115 88357 76962 81090 27975 22257 61165 59142 20909
87710 29368 89867 48392 20879 06282 91429 49262 31058 88954
76867 02754 59612 85162 64833 75930 85878 86678 64644 42695
90974 32075 09089 41577 15460 38780 33424 64464 71785 09051
24004 93491 97451 39559 84971 28254 59848 89285 96455 70542
48668 85393 62709 58789 16879 71785 73628 69397 56146 30019
27100 00000

15751/13946/12221 kHz, 08-12, 0730/0740/0750 UTC

16326/14980/13375 kHz, 08-12, 0900/0910/0920 UTC

11100 00000 87541 07031 01029
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48743 31631 82811 26856 34856 74234 95390 84327 78998 98305
29703 11500 22112 96119 59986 18888 88420 22075 99616 55285
06448 16517 13974 40821 18018 69503 33003 98540 79935 47943
80679 70465 88027 34558 63553 29062 78235 52091 85558 20058
84443 71217 81288 97541 57739 25571 84906 37290 76781 82346
76895 39248 03972 41903 75821 55115 67111 64809 67311 01958
71237 49763 87415 47801 70323 10838 02563 80130 53521 27469
53274 93234 25657 65647 53846 55342 86634 93725 65166 41476
39470 41306 82869 42965 81614 74619 08009 89564 59267 86851
31100 00000

11100 00000 31058 07032 01029
67277 38369 07643 10706 72608 55611 65822 56675 53879 99458
74378 55327 72881 55111 15535 73910 21497 35184 93353 12688
75821 69053 74229 76170 96082 21215 72408 69450 52051 37074
72710 80567 78622 39623 07646 34845 91267 25429 31119 32147
16030 33377 55894 02969 13764 84608 47022 44323 03297 17081
88414 21343 13204 63202 64743 45551 16889 43965 25866 65719
30644 78021 25952 32265 79397 29137 54511 21130 59810 40463
01498 28051 55437 29064 23685 69198 83616 39127 04499 49080
78792 77318 24497 81688 41943 78683 84674 75787 10818 76572
49797 20314 30657 74991 03933 30802 30087 46839 35386 42788
32100 00000

11100 00000 96547 07033 01029
60438 28591 98920 83397 19842 47007 05707 29407 03165 94356
17915 76652 14847 52193 15078 56560 55835 19371 37038 71240
26214 18939 87208 53569 44339 87571 48446 90250 80911 39694
72437 12558 31437 23507 28580 84437 75492 11091 23257 42669

96253 89787 25468 68749 58712 47027 59743 97219 70019 65807
52281 90095 70397 73004 41240 32097 28060 07698 87137 26374
36564 01712 44280 95403 38046 89540 79160 16746 20780 89863
46773 48360 64476 25828 60774 23153 31787 76285 18429 17452
29426 75177 66271 23097 87366 01250 17442 77827 29536 25287
56605 33661 34456 07059 93417 67947 09257 59150 50454 66783
33100 00000

11100 00000 36541 07034 01029
44550 77658 76588 32362 12684 25668 93091 95883 28957 68621
57121 68899 91087 28099 16505 65133 15614 01413 05914 73543
00336 17576 45491 45210 27484 96895 57542 70549 18546 68857
74737 14048 76693 28010 38242 98706 77744 32512 09242 57374
95592 75053 42270 93170 73052 80819 93801 16172 74053 12201
64525 48554 78111 84920 98758 15388 03032 25280 89415 63257
66764 23208 61989 73899 24366 60791 35972 65058 40986 20985
87148 95720 86835 06186 59218 17947 65061 21356 98159 42462
08465 01385 07791 10211 06016 87377 49959 87048 45075 81556
37799 23773 80294 35460 95487 48671 65094 51137 82948 84773
34100 00000

11100 00000 15978 07035 01029
09431 79333 85740 04015 60503 63093 74562 38387 84362 45790
22129 32086 59424 90175 70590 12827 84113 62570 97521 73345
21391 49240 66551 68285 01972 66228 45276 47517 09665 79835
76397 55577 97294 79922 13017 51893 06605 73248 54029 31508
90627 88998 40557 50982 61910 13719 99347 89144 15073 97827
44088 97411 97111 00896 70562 19334 23902 67890 06602 84073
66316 53551 02745 03487 54427 37114 74572 27521 73196 94539
32631 37590 48117 20460 60889 82622 44233 17012 29678 87487
26965 91756 54030 88454 58208 31870 33371 75402 26103 46786
33497 45452 31949 96487 96772 97708 82673 47624 91491 23808
35100 00000

11100 00000 65482 07036 01029
35336 89574 21503 35514 55974 27996 50209 64302 37425 78949
04229 34456 07528 21348 51727 29853 75881 29239 68192 29174
17116 56907 05690 70936 89811 02198 53227 74093 33239 59003
42933 87636 09129 94841 81710 67642 80645 14476 13075 05191
45755 95500 38849 53613 67173 06847 55413 28479 66088 46123
84192 78785 71834 56755 01071 52770 44712 10834 94412 06790
14147 68635 06397 30710 99353 50733 37325 88225 04726 83645
17617 95568 07099 04958 77161 87028 77116 38850 66726 40728
01849 77981 11096 63087 00882 32647 98643 55425 53036 33170
37014 11113 75936 96445 29606 16746 25581 92587 52542 55750
36100 00000

11100 00000 24689 07037 01029
49787 18064 65032 58200 92650 17837 82877 00829 65278 40819
09008 47632 80356 22967 60877 49239 82793 22694 74857 84062
22448 53232 11821 04979 81246 86978 22590 85310 96880 42741
27935 37577 50278 91834 92810 03426 09032 43968 99522 38200
43964 98845 49497 38564 61037 74434 48364 86644 15773 47825
54018 09099 02381 69633 92361 74576 34783 37869 70410 77987
61723 42215 41444 85026 83139 14662 01903 35393 59995 47414
24707 28132 34764 64031 58686 37548 04730 54725 48818 33125
15321 11753 56941 01875 65646 25842 87662 96581 43422 29602
49108 58348 31490 98828 03242 86907 53094 47665 85410 57115
37100 00000

15651/13564/12066 kHz, 0650/0700/0710 UTC
15803/13426/12086 kHz, 1030/1040/1050 UTC

15651/13564 kHz, 03-12, 0650/0700 UTC

15803/13426 kHz, 03-12, 1030/1040 UTC

11100 00000 95863 30079 06629
62761 94587 64846 62796 66030 75612 45604 05996 85244 18543
48354 29268 94421 54573 09601 92836 58221 99753 48344 60430
13924 08626 52991 27580 81629 68967 73831 77732 13615 92336
94511 33398 18793 80108 80958 94496 23203 69680 31176 81101
52475 90548 74359 22762 47208 84932 92766 61600 47185 72633
64776 61362 05389 64823 52579 39613 17728 56449 82931 65266
79426 51932 94414 88630 04015 03858 49638 96162 65850 69339
35817 07123 52115 13756 02172 54297 35220 16523 07572 16006
01561 58612 76886 91555 97554 96503 89444 37346 78903 52232
48081 05802 74012 74251 02172 54326 97513 48781 23119 16465
74817 66326 55708 52455 63642 73064 93790 21371 83446 61781
53712 42026 88720 82045 43937 34836 47051 74308 54296 61830
07918 57619 13311 06992 73142 25639 87009 64117 04943 30640
17697 24383 32516 60188 26089 80807 43100 36187 25279 91794
68438 90961 19945 70948 02598 00098 89257 95341 12070 76693
76908 49430 24096 56732 36714 46803 04148 30252 07217 96945
58515 98003 13732 09214 22917 58287 21265 51200 23094 53647
86760 03689 18307 32126 84089 79371 63686 02746 00237 97522
52362 89923 26115 31824 23322 16501 90446 73515 45924 70062
10145 77067 17010 32259 55644 80562 31556 75795 54603 17967
12791 58784 82423 65490 12729 71152 13029 89207 19046 12781
28329 86143 29246 08081 09816 36001 78046 86668 60726 05718
28926 84851 32206 74049 65764 47601 51919 68349 45529 35699
78531 30754 97920 67746 30516 55946 82940 51728 62706 67680
42296 85807 89047 26280 05599 33056 74970 84263 37280 99790
47834 32316 35173 72214 98876 02772 16681 91039 75101 22806
53496 68796 84542 34520 40777 79497 63350 24116 11744 75355
78130 27327 33621 10239 61971 03319 45861 74553 07601 94225
26597 71238 66113 12526 98246 87559 24697 23429 08225 42396
61801 14477 45680 13699 03190 69536 80213 75811 27302 89372
33500 01349 93371 25996 19765 07305 90740 22961 16037 50091
32794 78815 48132 99190 43970 75875 03292 44107 13266 41525
05422 14306 12690 34219 13865 16829 04091 71385 31647 21276
82806 41401 34135 46834 31560 66848 54037 31044 83056 11221
83692 84997 14698 46272 80585 64642 23873 22207 87014 12890
57248 07879 99861 52214 92500 93202 51398 32423 95924 70963
87059 63291 04364 40199 51137 86750 04893 98359 16308 68311
10686 14423 17956 12416 56521 00149 79217 31399 62351 21674
37683 22753 38370 18619 09696 34382 30030 22909 53188 22529
26432 94478 14993 32069 80537 16076 73556 53849 14626 14316
13010 38772 09455 99205 89517 73300 00540 39309 75852 46079
30000 14743 95130 60353 27420 15191 79639 71879 18137 75131
15710 57008 82418 63453 60551 40634 13950 69655 42005 38694
51079 53816 77138 94902 79255 52520 70631 16418 28086 57931
78876 38114 11474 12192 50749 70162 84248 84347 80969 08592
13743 21979 36995 13534 89749 94720 45403 84825 21289 71872
48658 89662 93635 01272 68253 21996 84038 81629 35113 98348
59559 45504 73238 19748 05491 95112 47497 54462 57769 58158
11524 21216 37832 55869 16643 77591 13356 00425 67777 43291
33304 63973 37255 12943 10740 86407 72473 38153 51820 14110
58341 83483 54420 86830 20449 86036 24832 14909 79892 73347
85958 14003 95705 19260 75450 89534 55812 42480 57227 88026
02467 77494 94807 57519 03095 72535 59899 84259 02483 94289
74677 97847 17257 44028 11192 62025 58582 14849 96341 93297
94017 44727 95854 74574 84478 45047 75707 56020 57225 09310
64419 60296 00828 31710 64674 34382 93040 90256 87683 15177
97526 74135 08751 01046 90363 59998 67458 46515 02274 66865

60924 22307 87515 44320 03560 07879 55370 73710 51773 08683
25167 87004 17048 15317 90775 33026 15840 46748 05518 45731
29725 44822 23413 94228 74243 12215 57727 19226 99869 11040
42723 85579 73548 64278 09594 05661 14236 27232 12470 13198
80882 21192 65483 92299 36293 46484 76792 91340 35305 17113
90513 76397 10718 84167 72513 03925 55419 40183 00975 17351
24134 21653 47692 97298 03245 51865 61020 20093 22110 91266
86428 04268 04332 87528 85585 49743 82396 42507 39919 99367
24131 38289 49578 77509 44420 89501 63759 85387 00607 14088
79660 00000

15651/13564 kHz, 04-12, 0650 UTC

15803/13426 kHz, 04-12, 1030/1040 UTC

11100 00000 71623 01089 06629
71822 55946 85845 83628 48380 48313 38837 20680 75640 02346
36217 36541 64098 12187 32077 93536 59737 54513 18559 71204
29354 83885 46382 87670 61210 04772 28672 37533 48204 56153
07772 44695 45752 69673 89734 53561 21561 87263 76180 07064
39485 49170 48197 84935 44654 88333 81985 00680 42052 92051
00929 80660 85745 16868 93776 73768 20945 67618 53622 65086
46081 76573 17381 91993 87095 43618 10434 86155 01113 23406
26139 89822 51710 70418 94890 19891 22949 77878 22423 78145
64358 71442 02032 31140 84073 43617 30415 08141 32301 39843
81810 90569 42302 32164 20126 91395 21086 41440 53741 47902
06995 94030 62674 76268 36377 23890 52800 61412 86518 56005
16806 80510 87043 32125 06571 83667 16953 64707 46666 80130
29495 30028 43644 03522 72057 36389 70828 54510 93266 28361
33267 44356 54478 12995 42562 87777 87856 18948 56239 18570
68211 24460 61361 26417 90809 15105 07065 38327 72311 57274
15712 93141 17056 98315 27345 82543 15854 29276 57122 57008
69495 71165 70435 20133 54147 70713 05390 59784 70834 16518
97334 89496 46191 11551 85129 98565 76668 62947 03841 34267
33389 75016 93545 64644 69825 56414 78944 95298 99509 77412
99454 38624 35942 38201 94480 58913 11896 34169 73556 41790
20308 29087 26025 61387 43930 72147 49965 43722 65947 19779
05043 49698 78736 48195 18974 26168 32956 67592 02289 98513
94153 73952 51084 03154 99087 99377 42453 83437 28935 46903
52276 97355 41588 20707 50062 10499 30215 87683 50533 72715
00284 31293 26625 01893 82220 83634 13615 23307 21915 46681
59034 37977 16230 38608 98083 18457 85726 26168 59212 55511
01784 29020 29572 04107 10296 06988 35010 02151 19146 66154
14310 60433 41627 44742 92354 47186 13018 64721 81900 15717
22482 60074 68652 48539 27494 17659 59336 16454 42966 91604
97431 76000 22276 77187 76281 53729 72368 55107 04244 90726
70134 42118 01588 45830 72242 08942 33811 80977 35617 51403
11073 77115 90746 25729 08426 54114 35012 83941 86540 93129
38226 70286 17598 84834 77558 64636 46056 51973 44052 83802
38954 19670 87903 76696 05470 31921 94704 74270 90386 37727
09822 80191 71189 95283 53113 13165 13449 67678 91166 36860
64203 08530 59238 38373 88008 61004 50088 41158 75356 18652
11907 63374 78142 21489 22492 57570 51870 85782 31902 92669
09285 90956 90745 64160 15118 72064 06299 43462 76629 91269
93649 02377 09648 86762 14046 73585 84774 22565 17639 33108
83458 87637 32805 15684 18621 17753 69246 98987 99517 38556
27036 17642 45524 53252 28817 92946 78540 23364 17332 89265
48689 15989 85466 33021 73008 16001 31008 55209 91819 26633
53291 43404 72449 06868 33932 14158 15018 19094 68829 41755
39953 85442 43618 04254 61933 76262 69775 32747 79949 79150
23553 74781 38158 22001 54935 07880 37232 48478 58792 64091
00879 69387 25442 51526 27229 38343 12786 83783 79771 25208
07216 53243 97528 85709 65474 09134 29155 50696 54672 26325
20653 83455 32617 75779 11384 78530 35685 32606 18077 00491
66381 82642 11501 86069 97800 13516 15510 58125 37177 01111

83133 24851 15691 27386 29411 62682 96744 90472 25644 06329
19872 93003 84767 94370 22490 19591 92523 43867 06661 39414
64116 52397 43069 94832 31048 50985 29387 61978 87816 56338
45226 94253 53168 95843 70855 84678 25578 03753 61878 08024
37666 11993 97053 28668 39226 84052 41450 85108 63547 65361
92116 87080 56732 48619 98463 86198 74690 77498 74535 06083
77487 37169 45370 42887 75751 05068 94619 72179 08819 60372
05638 23104 59302 75588 13206 05768 33771 38720 08089 02791
64236 79427 61620 60945 10124 97640 62483 43836 65417 18041
82891 31557 00671 18867 16355 78247 94571 08469 54208 63508
34738 48056 93100 98589 92443 44075 90630 73314 00959 58652
11311 54656 92188 11541 30053 72909 71299 72007 85360 56405
34025 64103 99413 00694 56330 33745 07242 83137 11132 51054
62157 58848 91749 46383 09654 98922 46795 03477 46943 56881
56158 58194 10331 74285 02810 76239 57606 61437 20081 08329
37639 14129 19125 46239 64373 52349 26241 28177 37403 91917
84744 66892 76317 84946 01084 98991 60997 90106 39874 78877
89660 00000

15651/13564/12066 kHz, 05-12, 0650/0700/0710 UTC

15803/13426/12086 kHz, 05-12, 1030/1040/1050 UTC

11100 00000 51287 04099 06629
05294 24755 69778 65816 87353 60507 72179 77965 58501 16595
96062 23100 55232 67952 53377 22357 65243 38098 61881 40390
66073 61089 98681 71788 50953 79519 33942 28374 59046 64478
74451 75816 52277 68427 71755 93004 05921 46923 74512 52606
05159 10127 29786 46252 64774 90028 62940 02799 14178 34345
90847 73085 14957 63002 48076 79632 03131 48160 30755 54724
73298 03710 87805 15303 46872 95177 14220 48123 91574 05980
26079 03587 84398 20962 21999 21720 35210 13160 60686 38705
13183 44720 09296 47425 43249 17920 42278 10442 64763 37223
95404 48862 69557 68305 04645 55511 61576 04993 84611 05865
05289 80045 26232 65173 55045 80729 18345 15214 82593 55106
22921 49105 44914 19990 58569 07634 59581 06493 72048 55513
79833 04118 02437 21030 86530 89308 67679 47502 39200 49425
28182 29988 53350 38055 07136 35694 96237 22620 72278 31507
18288 10193 08763 67093 62336 62487 37827 87000 17897 35938
60956 70204 12636 07817 34212 20532 58240 74324 02437 56400
92865 31586 47995 73311 87357 75504 33770 77537 07427 81386
45066 14435 48971 49304 60143 39824 88728 26106 04040 07877
17450 40030 65388 73938 47777 08855 80906 35735 14020 07519
17252 61393 06009 06152 04928 77718 04224 14450 03924 17157
08375 93345 05788 46895 76632 19890 01806 28517 17683 16302
71988 81676 02810 79108 74539 50198 90176 69329 40503 94067
78514 49624 03276 55731 32376 79358 17668 74154 46171 03513
48200 45068 39159 96374 31334 50847 98575 45962 41307 08452
13103 90095 14270 08875 63855 40076 10421 46530 65066 52899
18802 62021 71683 37931 34471 46724 96027 09008 62716 82625
00738 17876 30016 15848 60166 29916 06412 87316 07413 28093
69014 68972 09205 56067 61291 79010 35780 36397 27852 74542
17991 24787 29413 45151 08797 86295 67611 55748 91335 04463
74389 12201 00773 59286 45598 48137 52097 34972 23538 56386
91073 43420 58110 13484 10517 74361 01273 70684 99089 08099
14470 09909 14808 51778 93759 88073 00440 85134 42286 18240
82986 26648 44812 61015 24436 56050 23987 24638 15966 54109
83039 97205 32797 45641 64588 59455 91880 56684 80246 51561
79601 21769 90719 92360 41684 02218 41078 74466 52506 01428
80893 83699 05978 88051 23924 16261 95203 63040 27037 92115
73097 31455 93061 87983 11135 65017 27254 38417 98450 66305
02058 78366 48446 70560 09860 25695 05105 46018 08417 27074
66206 78718 88647 15687 65618 52724 19476 54197 81861 61687
49412 61397 65129 12702 69557 45995 99951 08373 67726 95962
45692 18057 28366 96888 22067 74188 57964 77771 31862 54649

40636 07699 38060 37111 53571 91828 37531 36277 97031 40143
98508 59989 18591 07374 54014 45102 36294 27575 68425 59094
90436 91747 19385 78331 78639 41978 62218 78927 53915 80511
69064 01148 90409 17207 59901 73273 46503 03812 67651 05888
79968 28480 04557 92501 94863 68997 22013 77471 24851 28120
81045 77130 82627 99490 75620 65086 30162 37549 75968 57619
49411 29898 84129 60109 18223 95529 18876 60434 21093 57384
72226 80291 49475 62654 04730 20348 71334 49283 71703 60189
74620 82092 97614 98990 14357 06971 40801 47840 18028 96578
15699 09665 28961 85977 64791 07693 92375 21657 97442 48388
13803 72359 37817 29791 44553 75172 49065 31209 73918 15310
25972 45196 32808 63013 73247 37751 38492 16034 11644 47675
35145 21104 79100 61028 09885 72860 19093 21623 88976 13644
73372 63489 43908 82610 21295 76247 62015 87604 32910 39331
61342 98215 28021 85995 54429 83469 58370 83047 90713 42584
55177 37235 32235 02226 09181 64236 42319 78716 75391 81182
91950 28606 19749 08655 13496 36076 49845 93086 56490 10583
96928 85522 25148 93204 41362 37653 02315 95108 98723 01077
89517 16589 08744 40726 17829 20109 94255 98378 09210 55779
82356 67219 93032 62724 04968 63364 07467 94754 20966 05297
40415 43802 27093 37154 89687 59541 49822 56796 47105 88640
35360 34602 36208 82081 79996 33917 58272 43979 67956 69107
26316 20347 08971 62143 91771 51239 92737 83661 93531 34708
02467 89427 84041 76020 54691 88157 12128 20554 57538 01618
67257 93839 04644 02947 14904 97153 46902 44140 77723 32124
99660 00000

15651/13564/12066 kHz, 06-12, 0650/0700/0710 UTC

15803/13426/12086 kHz, 06-12, 1030/1040/1050 UTC

11100 00000 65287 05010 06629

18433 16483 56395 02924 88694 99619 71753 80730 95997 93395
56517 31911 28454 37165 76472 05488 06634 86107 44110 21893
97627 75256 07534 61276 75292 14497 94158 25722 50126 31689
95124 05091 17216 06141 01380 01162 95677 59591 27350 89756
58052 96898 83153 25542 73067 13635 81283 19202 10225 12747
88701 41650 79633 97499 60276 34986 05545 32867 14516 34881
57005 92577 37510 34068 84083 33981 26043 41640 33099 67941
05800 17833 39288 15937 85607 88985 20358 71549 33652 72362
19346 08544 86597 65529 70244 02710 27566 79962 84806 59661
93888 23589 83985 65789 00591 61933 22444 04532 90528 12578
79558 05177 47130 52594 15377 16366 30665 43664 14940 21493
23994 04557 69435 38183 98723 85659 67593 69049 37709 25247
95779 95893 74841 92172 70214 34563 38065 44681 49762 92633
06544 60009 02721 97114 17929 14489 26051 84356 86671 18815
40494 69360 19292 38184 09992 36662 37569 81540 49469 36019
29238 18409 99236 66237 56905 48777 93903 77451 80196 21116
97571 43442 37356 87778 59310 14885 11350 56774 75108 26390
23538 51485 19761 16361 63086 78456 04578 09291 67182 72236
20346 24326 32604 96960 63984 02284 19568 09355 72325 68319
33806 12858 11465 72422 97798 57543 95117 74931 47106 65522
30408 69260 12736 86536 14546 59015 75482 13400 30817 31692
03177 12000 17327 96148 06784 45534 06934 76031 76284 97672
61814 76344 82280 24338 51097 65353 54264 88773 44992 39009
71474 59618 23870 60076 27300 76642 25715 89157 53149 13852
80397 49801 12729 94643 04200 94872 02676 38702 53030 66394
20470 45312 57770 66015 85570 42798 90187 78326 24711 58753
32849 14185 57295 90758 51479 66255 41828 82288 93197 93933
69314 33461 59068 79864 14575 01358 24409 25222 81400 69566
05289 75947 02505 91663 94652 97134 80185 38297 16516 37745
78656 02576 71663 52841 03970 43453 73282 75529 32479 71772
95984 55801 73772 08691 86640 08443 79014 71142 10462 37232
30640 64044 30787 27580 74327 83933 45984 24818 79199 63701
31926 40326 37182 13151 63473 52668 37461 35022 13387 95944

76975 21206 52131 52531 92876 58815 96989 92408 27913 00812
83929 26254 64641 80863 60666 64491 89442 77136 24350 99492
72249 54693 52324 53098 72933 41197 99380 56674 10299 15601
59965 55856 54601 14511 18754 57208 29546 85922 38053 58948
34694 44993 55443 32948 24212 11564 90127 50196 02917 34104
81399 66896 25533 29766 07678 13404 10116 95248 59549 53175
01570 68135 65251 03935 46204 43425 92032 38228 63260 74912
71829 05557 24345 16125 24698 43288 76722 80498 78437 68519
71377 25477 07842 68083 81812 90226 42017 28894 24499 41649
13204 75801 16927 08386 45541 09162 34195 07497 07208 59299
50060 93497 74380 00046 73417 84458 80450 88561 16105 44833
48922 23599 53015 29711 33450 39418 60410 20192 13437 77537
43413 04557 18635 03497 88585 84924 81193 60832 02544 14085
38583 79441 22553 92201 35832 80538 10023 78058 00522 45368
62857 94545 88973 39885 07584 33072 27061 12577 57214 86594
94091 07612 45754 65943 23192 60516 75320 79133 16631 68551
36786 78364 99527 52989 89904 04364 60370 55468 13838 82801
51793 35618 64035 52426 50042 62143 96399 29641 96570 14551
44672 39178 70200 37709 61977 65589 63289 16428 62472 05212
60336 62240 24020 23320 42468 29589 37846 46133 66244 03584
16100 42375 90209 26536 93260 74079 47644 55446 82340 21309
88940 67640 71795 10499 42043 56733 74102 01091 64402 86111
61942 10168 84855 92130 52904 79751 58898 54198 28670 16471
85767 73944 99607 58281 60779 30658 50717 47919 61358 05184
29848 17781 90193 89462 64157 15924 23965 23900 15711 27856
41070 29760 12196 73823 26798 28767 13661 86268 79370 67089
01230 97153 65313 85923 98726 89835 97571 05835 63149 95173
34823 17057 04926 36574 25415 92942 23894 53636 44369 68737
71945 59104 96894 52879 78258 08813 86835 63004 98074 89295
73502 03844 70944 52768 65318 29206 99379 54162 23718 55226
83865 69884 75741 17078 75138 03018 58752 86321 29706 04628
45725 91087 79514 65869 24538 06288 51720 60582 29702 06015
99493 43067 49973 95359 29793 30715 60283 63788 39057 26201
10660 00000

15651/13564/12066 kHz, 07-12, 0650/0700/0710 UTC

15803/13426/12086 kHz, 07-12, 1030/1040/1050 UTC

11100 00000 50146 06020 06629
18433 16483 56395 02924 88694 99619 71753 80730 95997 93395
56517 31911 28454 37165 76472 05488 06634 86107 44110 21893
97627 75256 07534 61276 75292 14497 94158 25722 50126 31689
95124 05091 17216 06141 01380 01162 95677 59591 27350 89756
58052 96898 83153 25542 73067 13635 81283 19202 10225 12747
88701 41650 79633 97499 60276 34986 05545 32867 14516 34881
57005 92577 37510 34068 84083 33981 26043 41640 33099 67941
05800 17833 39288 15937 85607 88985 20358 71549 33652 72362
19346 08544 86597 65529 70244 02710 27566 79962 84806 59661
93888 23589 83985 65789 00591 61933 22444 04532 90528 12578
79558 05177 47130 52594 15377 16366 30665 43664 14940 21493
23994 04557 69435 38183 98723 85659 67593 69049 37709 25247
95779 95893 74841 92172 70214 34563 38065 44681 49762 92633
06544 60009 02721 97114 17929 14489 26051 84356 86671 18815
40494 69360 19292 38184 09992 36662 37569 51978 58875 19993
45577 32691 85229 62888 01505 48777 93903 77451 80196 21116
97571 43442 37356 87778 59310 14885 11350 56774 75108 26390
23538 51485 19761 16361 63086 78456 04578 09291 67182 72236
20346 24326 32604 96960 63984 02284 19568 09355 72325 68319
33806 12858 11465 72422 97798 57543 95117 74931 47106 65522
30408 69260 12736 86536 14546 59015 75482 13400 30817 31692
03177 12000 17327 96148 06784 45534 06934 76031 76284 97672
61814 76344 82280 24338 51097 65353 54264 88773 44992 39009
71474 59618 23870 60076 27300 76642 25715 89157 53149 13852
80397 49801 12729 94643 04200 94872 02676 38702 53030 66394

20470 45312 57770 66015 85570 42798 90187 78326 24711 58753
32849 14185 57295 90758 51479 66255 41828 82288 93197 93933
69314 33461 59068 79864 14575 01358 24409 25222 81400 69566
05289 75947 02505 91663 94652 97134 80185 38297 16516 37745
78656 02576 71663 52841 03970 43453 73282 75529 32479 71772
95984 55801 73772 08691 86640 08443 79014 71142 10462 37232
30640 64044 30787 27580 74327 83933 45984 24818 79199 63701
31926 40326 37182 13151 63473 52668 37461 35022 13387 95944
76975 21206 52131 52531 92876 58815 96989 92408 27913 00812
83929 26254 64641 80863 60666 64491 89442 77136 24350 99492
72249 54693 52324 53098 72933 41197 99380 56674 10299 15601
59965 55856 54601 14511 18754 57208 29546 85922 38053 58948
34694 44993 55443 32948 24212 11564 90127 50196 02917 34104
81399 66896 25533 29766 07678 13404 10116 95248 59549 53175
01570 68135 65251 03935 46204 43425 92032 38228 63260 74912
71829 05557 24345 16125 24698 43288 76722 80498 78437 68519
71377 25477 07842 68083 81812 90226 42017 28894 24499 41649
13204 75801 16927 08386 45541 09162 34195 07497 07208 59299
50060 93497 74380 00046 73417 84458 80450 88561 16105 44833
48922 23599 53015 29711 33450 39418 60410 20192 13437 77537
43413 04557 18635 03497 88585 84924 81193 60832 02544 14085
38583 79441 22553 92201 35832 80538 10023 78058 00522 45368
62857 94545 88973 39885 07584 33072 27061 12577 57214 86594
94091 07612 45754 65943 23192 60516 75320 79133 16631 68551
36786 78364 99527 52989 89904 04364 60370 55468 13838 82801
51793 35618 64035 52426 50042 62143 96399 29641 96570 14551
44672 39178 70200 37709 61977 65589 63289 16428 62472 05212
60336 62240 24020 23320 42468 29589 37846 46133 66244 03584
16100 42375 90209 26536 93260 74079 47644 55446 82340 21309
88940 67640 71795 10499 42043 56733 74102 01091 64402 86111
61942 10168 84855 92130 52904 79751 58898 54198 28670 16471
85767 73944 99607 58281 60779 30658 50717 47919 61358 05184
29848 17781 90193 89462 64157 15924 23965 23900 15711 27856
41070 29760 12196 73823 26798 28767 13661 86268 79370 67089
01230 97153 65313 85923 98726 89835 97571 05835 63149 95173
34823 17057 04926 36574 25415 92942 23894 53636 44369 68737
71945 59104 96894 52879 78258 08813 86835 63004 98074 89295
73502 03844 70944 52768 65318 29206 99379 54162 23718 55226
83865 69884 75741 17078 75138 03018 58752 86321 29706 04628
45725 91087 79514 65869 24538 06288 51720 60582 29702 06015
99493 43067 49973 95359 29793 30715 60283 63788 39057 26201
20660 00000

15651/13564/12066 kHz, 08-12, 0650/0700/0710 UTC

15803/13426/12086 kHz, 08-12, 1030/1040/1050 UTC

11100 00000 94168 07030 06629
59593 19881 55636 06706 52055 96523 70960 46120 74333 90090
30429 05437 99823 57277 41126 13115 11025 86632 01049 10382
45312 96162 30863 28774 76351 09153 96777 23231 73347 19152
79210 34199 05305 80056 66950 77177 82507 82223 81489 83140
52385 00564 61224 38280 91959 25541 60200 96495 64069 13016
41103 63083 29541 13884 67169 73048 32517 69425 22712 12484
01101 83326 16950 56460 30535 06286 50819 21847 41080 94168
51468 58517 27787 25623 04110 27373 44354 90114 35925 38616
88252 82301 31710 48717 79311 63702 85941 39511 48942 77578
20961 27855 82197 27984 25957 79301 79853 58908 96439 24199
32693 94455 78881 99680 25186 25998 50235 65967 10754 57236
86989 70421 25800 43111 03471 57799 34699 83498 64070 50122
22929 57623 99078 44625 80540 10146 78828 03198 43139 24826
25820 31780 82576 46745 69527 73121 64540 38982 73562 61373
15220 84707 89893 11919 64247 70628 19802 44906 56090 12712
86261 65906 47093 10135 47434 52136 30347 38391 05970 17688
55585 17504 93782 56198 36276 16259 37017 84394 61120 78428

30868 34967 52124 81889 78953 72177 36444 66597 76930 28678
24187 92346 45031 86947 09361 12247 39210 53795 36145 72866
95603 01373 97696 76967 87962 73124 59648 69781 02774 78116
25510 34757 61737 22184 86151 09709 46293 49329 20551 59327
03898 91818 40003 64969 40709 52394 92972 17660 30399 67070
72777 25276 93760 21917 95292 69806 28806 22294 38863 75660
96033 37966 63606 74945 88570 72524 52300 80651 41854 30571
40043 03689 62556 81091 24863 74706 81437 40457 76479 56635
59806 23492 85395 58890 04287 36045 19503 89172 69571 07503
80402 03805 53845 86685 76616 42537 16582 49550 55880 58769
73386 92157 63706 81114 47572 07326 20405 67250 83170 68408
33748 35996 49051 68653 89466 88540 88840 89545 86769 54781
96331 96609 11060 25687 21068 86078 61061 57638 33795 30886
72513 59675 06454 99410 05640 99600 86422 45410 88579 89854
69676 92584 33954 39128 02566 62210 70770 80620 66891 17271
58848 12909 27970 21535 77943 14342 50376 37011 08776 16914
11047 08219 48135 50544 64433 06712 25256 93703 39399 34298
11651 91334 72534 08383 41587 25981 07593 77881 85397 53087
15722 43134 42808 36394 16184 78264 48472 44366 02257 79414
06905 93596 01988 87297 98993 50113 28514 57506 27279 24546
99603 77004 92194 22069 31136 50264 16451 33065 34189 03447
59752 75458 70427 80111 91027 24639 45483 26843 10377 91920
45006 92278 37907 37476 43080 87935 11648 28683 37697 84300
61744 79810 92952 40608 53098 33998 92685 91750 13660 73455
35222 40750 90549 68817 23916 30240 01201 03609 33189 91380
71703 34726 54735 93658 79553 74910 53599 44006 42971 08117
88795 08665 24002 73742 78173 56247 37562 80626 12202 45428
83639 36786 46374 05698 44820 05808 26908 84623 16333 25829
29435 60047 60809 52068 15369 40671 04928 08815 35632 03447
20149 61840 36438 41232 54713 47149 46807 19126 09101 17019
52512 62944 72132 89258 86137 28257 59904 10636 87935 23423
24742 70390 17169 85078 26362 24793 18643 29495 82425 18669
74079 28257 40677 14840 93061 81695 39852 67402 23206 88507
51538 99803 84260 35011 20188 73632 55820 52458 43455 59070
73343 15866 60057 42944 12150 82769 37344 35311 64104 95371
75755 60517 36652 94499 72367 43666 28919 18815 10706 28435
64536 87722 69014 87172 85900 91399 64172 09231 39540 36396
73439 78442 07291 20241 01224 75704 62949 33480 83051 67594
59114 12606 43939 66964 73876 92296 53342 76433 72073 30408
43872 50742 60776 04159 85978 38879 43699 00946 35763 91941
04228 52226 98137 47647 71746 83897 72494 27448 50952 81630
73089 07178 18846 94564 41309 47176 19088 25838 92035 92815
08402 83358 61264 81381 34715 89269 47194 16239 51736 71548
61949 94212 99626 86165 36139 97140 06494 43252 43439 83514
90354 35705 37377 41158 66286 93675 17512 86883 88438 13371
67195 24050 81592 33610 30106 93975 41958 58570 17738 82129
11904 50167 65033 65055 58294 38496 76347 08943 09128 23778
28937 55805 28165 68250 26148 58195 32233 01433 17506 48379
80890 87209 27882 52938 93146 26170 62933 88705 70918 91637
30660 00000



Hagelin C36

15988/14936/12228 kHz, 0810/0820/0830 UTC
17465/14896/13405 kHz, 0940/0950/1000 UTC
Note: not always the same transmissions

17465/14896/13405 kHz, 03-12, 0940/0950/1000 UTC

Binary file 44487 starting with [CR][LF][CR][LF][CR][LF]

17465/14896/13405 kHz, 04-12, 0940/0950/1000 UTC

Binary file 44497 starting with [CR][LF][CR][LF][CR][LF]

17465/14896/13405 kHz, 05-12, 0940/0955/1009 UTC

File 44408 starting with [CR][LF][CR][LF][CR][LF] 515 blocks

15988/14936/12228 kHz, 06-12, 0810/0820/0830 UTC

Binary file 44418 starting with [CR][LF][CR][LF][CR][LF]

17465/14896/13405 kHz, 06-12, 0940/0950/1000 UTC

0940 UTC: Started as F06a file 44418. Switched after 53 blocks to F06

11100 71225 92547 05019 00029

93518 00000

15988/14936/12228 kHz, 07-12, 0810/0820/0830 UTC

File 44428 (binary contents)

5931/8137/12156 kHz, 0530/0540/0550 UTC
14406/13368/11131 kHz, 1150/1200/1210 UTC

8137 kHz, 03-12, 0540 UTC

14406 kHz, 03-12, 1150 UTC

11100 00000 59483 30016 00029

75842 00000

8137 kHz, 04-12, 0540 UTC

14406 kHz, 04-12, 1150 UTC

11100 00000 35791 01017 00029

60287 00000

8137 kHz, 05-12, 0540 UTC

14406 kHz, 05-12, 1150 UTC

11100 00000 93751 04018 00029

91257 00000

13368 kHz, 06-12, 1200 UTC

11100 71225 92547 05019 00029

93518 00000

12156 kHz, 07-12, 0550 UTC

14406/13368/11131 kHz, 07-12, 1150/1200/1210 UTC

11100 00000 65982 06020 00029

10852 00000

5931/8137/12156 kHz, 08-12, 0530/0540/0550 UTC

11100 71225 34519 07021 00029

48156 00000

14406/13368/11131 kHz, 08-12, 1150/1200/1210 UTC

11100 00000 34519 07021 00029

48156 00000

18039/14904/11547 kHz, 1000/1010/1020 UTC
12111/10532/9043 kHz, 1330/1340/1350 UTC

18039/14904/11547 kHz, 01-12, 1020 UYC

11100 71225 46723 30015 00029
70569 00000

12111/10532/9043 kHz, 01-12, 1330/1340/1350 UTC

11100 00000 46723 30015 00029
70569 00000

18039/14904/11547 kHz, 02-12, 1000/1010/1020 UTC

12111/10532/9043 kHz, 02-12, 1330/1340/1350 UTC
File 44477 (binary contents)

13564 kHz, 0700 UTC

13564 kHz, 04-12, 0700 UTC

11100 00000 71623 01089 06629
71822 55946 85845 83628 48380 48313 38837 20680 75640 02346
36217 36541 64098 12187 32077 93536 59737 54513 18559 71204
29354 83885 46382 87670 61210 04772 28672 37533 48204 56153
07772 44695 45752 69673 89734 53561 21561 87263 76180 07064
39485 49170 48197 84935 44654 88333 81985 00680 42052 92051
00929 80660 85745 16868 93776 73768 20945 67618 53622 65086
46081 76573 17381 91993 87095 43618 10434 86155 01113 23406
26139 89822 51710 70418 94890 19891 22949 77878 22423 78145
64358 71442 02032 31140 84073 43617 30415 08141 32301 39843
81810 90569 42302 32164 20126 91395 21086 41440 53741 47902
06995 94030 62674 76268 36377 23890 52800 61412 86518 56005
16806 80510 87043 32125 06571 83667 16953 64707 46666 80130
29495 30028 43644 03522 72057 36389 70828 54510 93266 28361
33267 44356 54478 12995 42562 87777 87856 18948 56239 18570
68211 24460 61361 26417 90809 15105 07065 38327 72311 57274
15712 93141 17056 98315 27345 82543 15854 29276 57122 57008
69495 71165 70435 20133 54147 70713 05390 59784 70834 16518
97334 89496 46191 11551 85129 98565 76668 62947 03841 34267
33389 75016 93545 64644 69825 56414 78944 95298 99509 77412
99454 38624 35942 38201 94480 58913 11896 34169 73556 41790
20308 29087 26025 61387 43930 72147 49965 43722 65947 19779
05043 49698 78736 48195 18974 26168 32956 67592 02289 98513
94153 73952 51084 03154 99087 99377 42453 83437 28935 46903
52276 97355 41588 20707 50062 10499 30215 87683 50533 72715
00284 31293 26625 01893 82220 83634 13615 23307 21915 46681
59034 37977 16230 38608 98083 18457 85726 26168 59212 55511
01784 29020 29572 04107 10296 06988 35010 02151 19146 66154
14310 60433 41627 44742 92354 47186 13018 64721 81900 15717
22482 60074 68652 48539 27494 17659 59336 16454 42966 91604
97431 76000 22276 77187 76281 53729 72368 55107 04244 90726
70134 42118 01588 45830 72242 08942 33811 80977 35617 51403
11073 77115 90746 25729 08426 54114 35012 83941 86540 93129
38226 70286 17598 84834 77558 64636 46056 51973 44052 83802
38954 19670 87903 76696 05470 31921 94704 74270 90386 37727
09822 80191 71189 95283 53113 13165 13449 67678 91166 36860
64203 08530 59238 38373 88008 61004 50088 41158 75356 18652
11907 63374 78142 21489 22492 57570 51870 85782 31902 92669
09285 90956 90745 64160 15118 72064 06299 43462 76629 91269
93649 02377 09648 86762 14046 73585 84774 22565 17639 33108
83458 87637 32805 15684 18621 17753 69246 98987 99517 38556
27036 17642 45524 53252 28817 92946 78540 23364 17332 89265
48689 15989 85466 33021 73008 16001 31008 55209 91819 26633
53291 43404 72449 06868 33932 14158 15018 19094 68829 41755
39953 85442 43618 04254 61933 76262 69775 32747 79949 79150

23553 74781 38158 22001 54935 07880 37232 48478 58792 64091
00879 69387 25442 51526 27229 38343 12786 83783 79771 25208
07216 53243 97528 85709 65474 09134 29155 50696 54672 26325
20653 83455 32617 75779 11384 78530 35685 32606 18077 00491
66381 82642 11501 86069 97800 13516 15510 58125 37177 01111
83133 24851 15691 27386 29411 62682 96744 90472 25644 06329
19872 93003 84767 94370 22490 19591 92523 43867 06661 39414
64116 52397 43069 94832 31048 50985 29387 61978 87816 56338
45226 94253 53168 95843 70855 84678 25578 03753 61878 08024
37666 11993 97053 28668 39226 84052 41450 85108 63547 65361
92116 87080 56732 48619 98463 86198 74690 77498 74535 06083
77487 37169 45370 42887 75751 05068 94619 72179 08819 60372
05638 23104 59302 75588 13206 05768 33771 38720 08089 02791
64236 79427 61620 60945 10124 97640 62483 43836 65417 18041
82891 31557 00671 18867 16355 78247 94571 08469 54208 63508
34738 48056 93100 98589 92443 44075 90630 73314 00959 58652
11311 54656 92188 11541 30053 72909 71299 72007 85360 56405
34025 64103 99413 00694 56330 33745 07242 83137 11132 51054
62157 58848 91749 46383 09654 98922 46795 03477 46943 56881
56158 58194 10331 74285 02810 76239 57606 61437 20081 08329
37639 14129 19125 46239 64373 52349 26241 28177 37403 91917
84744 66892 76317 84946 01084 98991 60997 90106 39874 78877
89660 00000

13375/12158/10562 kHz, 0610/0620/0630 UTC
15691/13463/11610 kHz, 1110/1120/1130 UTC

13375 kHz, 03-12, 0610 UTC

15691/13463 kHz, 03-12, 1110/1120 UTC

11100 00000 54872 30078 03929
14019 28215 24662 45163 18828 66997 52300 52307 00766 15081
21309 23393 01937 27296 02386 69702 42702 00160 26628 64275
51024 62325 56520 90604 74716 79582 29680 55106 12534 54095
73789 55548 25066 22561 16162 22618 11331 82989 36376 76827
62050 04781 35402 67935 25509 01785 19685 89078 46948 73050
23597 82793 67445 40923 18708 81122 93187 41203 83309 46991
71106 45038 30637 09043 31785 17243 19207 07111 85601 40730
93736 90529 83018 61744 30055 36468 74985 35583 82459 80459
34361 77496 56958 76335 24318 48444 58813 27735 24657 30409
87854 58392 51964 70944 79974 13369 34556 01654 18257 08442
28150 60273 62164 69818 83189 71066 68243 31371 99769 63200
00756 81577 31100 31797 55702 77360 21436 71351 46648 67004
89424 36201 25821 89344 92790 07729 38881 41414 35319 72996
36834 31728 02052 44488 93501 61410 33644 75657 02006 00337
75824 51959 48682 50475 64887 62062 87883 13639 35155 78919
66089 05802 59351 05394 68780 85199 57831 64120 88495 86379
37577 36290 37523 77394 46941 79056 53654 82334 57026 76234
72444 36370 05678 01993 64411 65511 65008 02215 60618 08254
18391 23236 15072 21312 57865 42614 77363 36617 37894 81657
74021 61778 46397 04362 21974 41182 79018 32471 22591 19931
27543 31332 09721 77789 18418 46248 50175 25354 62309 93992
20088 79602 00624 39200 05595 61033 59952 10301 01266 79571
50349 34696 04723 01436 68406 97856 30897 14144 91043 56038
94342 31854 70963 57295 33063 08226 69697 50485 72270 48986
89199 86942 51531 41393 87897 44525 63722 42775 92163 28705
79244 95349 39132 30400 53928 59490 11797 45227 44063 82643
52342 83876 77001 46070 64618 28282 50758 56621 41731 13275
61057 75702 79652 38425 79254 02646 62816 39735 29577 54660
32612 75890 39120 10551 74735 08747 59027 10394 86321 82740
80309 28358 08798 32918 92724 60859 37403 76261 60159 97231
43294 66002 10957 65108 69202 13615 66623 67694 84547 08169
57347 55124 10972 87734 97773 97086 54219 42528 21472 48908
03296 54477 97533 28278 82861 02906 77729 44810 69773 91016

47677 49624 09728 72863 80452 97123 94946 85496 16068 36185
88821 15975 15282 72914 08482 57925 61150 72181 01203 37347
06780 90108 75598 12329 92695 54704 73543 76395 82296 36829
93747 20143 88790 78679 02933 30868 92090 71982 95543 34869
69078 03077 87930 12116 85692 07091 57942 37965 24259 98371
65870 31618 44525 69384 17671 16000 01820 75253 56418 18757
78390 00000

13375 kHz, 04-12, 0610 UTC

15691/13463 kHz, 05-12, 1110/1120 UTC

11100 00000 65213 01088 03929
80938 31396 83088 73085 78224 92113 89667 78642 57883 92656
17993 20097 23188 03763 68602 09393 55111 11619 54055 92411
73478 42373 15215 99120 31415 53136 70039 56306 22791 87939
87092 23848 07334 22060 00940 40467 83111 43168 11629 89877
61057 42728 35444 23295 21243 16091 99108 99220 55568 94711
94643 26456 26575 58937 37045 21275 97046 04802 91994 14691
10112 63250 65764 70760 24514 95257 74527 01866 34744 11251
35242 91894 30733 88294 45310 63279 76770 83458 43191 48820
14357 66825 67158 54219 18672 22555 54394 22290 63328 91457
47594 34759 73137 53507 01292 12596 69525 73731 05061 00824
38335 59926 65817 48741 74661 05613 16380 21486 84435 16693
42487 03883 47432 45235 45465 82523 71387 78819 82726 16998
91919 58893 53283 36226 97937 26567 20468 20824 87230 19285
89060 57446 81908 66817 78978 76032 58406 60003 62751 05908
71717 90684 58946 11661 78561 86274 98741 94755 89153 87384
07824 71791 02288 41959 70814 65367 03399 14353 70402 68481
30303 32786 18361 68401 36303 23612 20659 40943 05345 05848
43836 51103 98906 44386 74834 20972 39323 85343 91476 50865
59213 21970 85774 04628 71718 64569 07258 95023 41216 12849
18512 30165 59227 54162 80106 06918 55168 36059 07107 62210
96664 86591 64358 18195 59105 80812 92724 82192 69109 76900
83472 87362 51623 70357 42984 85025 35304 39699 14994 24596
95899 82100 52531 82034 42303 62406 56756 22789 74965 23971
24882 10135 71369 34742 74354 94863 78229 67040 35507 47265
15126 34470 29845 17322 19252 34388 76168 34067 85954 69387
91713 80048 84771 46216 80501 01811 55639 75572 26083 42370
14971 21222 30857 06579 26271 71869 69174 95356 15007 34212
46381 69693 32390 70636 81020 30378 97780 29969 52356 24396
74389 44736 80423 13908 57964 93368 30782 68780 83161 50776
61167 68577 77270 75749 52217 24969 15997 08605 89478 60481
60977 77528 88860 04541 83729 37048 82738 92731 05703 87067
08889 80218 09141 45908 69441 05265 98426 75790 52042 63789
16605 84198 30407 80892 46766 49553 86460 90291 52985 44644
21243 57608 40496 56255 46771 08439 39788 24416 76052 47143
44324 49715 53420 77304 56555 42129 92397 59770 21917 09780
13263 69248 55517 11080 97510 35356 91168 18694 01397 79097
07489 68744 95752 80670 10726 93720 24251 39576 79019 62512
97325 12937 97764 76005 63916 42984 40789 91687 28235 09639
77007 75693 03739 69127 07260 05726 21498 64575 61003 73297
88390 00000

13375 kHz, 05-12, 0610 UTC

15691/13463/11610 kHz, 05-12, 1110/1120/1130 UTC

11100 00000 36147 04098 03929
71844 77379 92431 02638 43764 01656 86305 80096 99522 62894
05434 43822 75670 16687 66901 49925 81155 24734 39056 14335
41599 20004 86030 29177 49928 03626 70961 72604 84285 78206
41331 29276 79168 47263 44882 63664 60725 35459 49535 13385
82150 09324 65739 94733 20112 03149 94717 37617 18153 79749
51009 92060 88006 80776 32785 73496 04758 46265 38338 39000
56780 08109 52218 11672 36412 87151 49415 95354 82279 48575
91064 46871 09227 95275 10083 97960 86769 03919 10182 44119

52035 33354 26708 42520 68103 60088 22726 86197 63696 20485
18800 46693 15157 64397 79898 02349 56647 49916 07874 94426
29508 33912 12935 78247 06714 38072 62571 61545 53366 95105
31349 47204 09159 04823 00027 22586 03751 54755 77424 62627
40989 85015 43484 38884 12920 02090 36957 51736 29513 71236
36163 27908 75055 42189 06246 50521 27140 87845 11378 13846
99186 60634 15337 19954 92440 96243 18904 59443 68374 19402
07514 43448 77445 31395 07596 79087 05135 84013 75042 05572
21206 69606 64251 33141 43128 81939 51161 52008 49594 27545
08735 03533 05079 92240 58323 30764 81360 92514 45337 50590
86962 66467 12688 14635 40436 83978 70398 51127 48430 80813
84865 04910 74488 46332 36171 17778 09495 19509 16908 16341
79728 72928 70940 99585 53451 89471 95549 43345 31961 61350
55390 63835 36065 66203 81703 07473 23892 99930 55220 59142
00998 70941 96197 86113 08684 85532 10014 59787 01487 79053
61773 22460 49756 72568 78352 91300 28276 59689 01322 16717
76847 53273 39187 37302 43795 46675 92380 98562 48311 69229
49452 27584 22589 40667 77875 80860 19678 54139 57935 07446
97998 42545 33109 94621 18456 07849 75391 88284 15088 18067
89004 05212 25187 01623 00914 79426 89827 93757 11603 09814
60750 14665 04546 01215 74521 84067 37797 16141 79920 01895
66154 79346 29487 49766 67328 02395 71165 92966 70543 20456
00985 87589 11029 58477 62709 22548 58820 68953 05402 51140
95314 08453 34831 91841 36017 45110 19673 03037 22922 14257
38421 61355 34952 64391 77970 98310 89907 60659 19788 74930
36353 38047 74626 99055 58886 21472 51708 15012 45219 54946
73315 20324 88521 07016 70735 89173 23443 44658 22484 07279
19274 92822 20756 47890 78671 21798 77030 43588 15386 29607
02786 33563 09430 11604 26234 91076 63129 34466 31037 60789
06485 56774 27933 60624 25295 63350 95209 27890 10464 05561
48959 14311 51937 64766 29059 59681 25718 81095 11812 98817
98390 00000

13375/12158/10562 kHz, 06-12, 0610/0620/0630 UTC

15691/13463/11610 kHz, 06-12, 1110/1120/1130 UTC

11100 00000 54182 05009 03929
59756 26086 25915 15878 94422 28965 26608 43713 19802 08666
98032 09880 18034 47649 86261 88569 54183 16813 48680 56231
33136 28751 64061 60714 39027 03622 05634 05337 49367 08546
81818 71345 41067 56471 74337 27186 30546 75464 28365 98025
15105 84327 74424 93973 07759 35521 86704 20423 82718 11298
07494 18964 73694 83996 92411 12301 92227 76439 56131 51607
58228 83360 23277 89764 59902 39809 14183 28913 85264 47460
20207 15755 92422 94774 48280 83057 10815 31945 39377 60780
90592 86561 90611 05262 42338 30944 35621 19923 34298 37063
62948 65899 39326 80002 77088 86067 48720 75892 31914 90869
95139 65255 91136 79404 51794 77690 95513 94210 00091 38860
41482 33166 82921 05678 00901 66970 85785 40675 36598 35619
12932 61457 93405 22322 50705 26192 69365 28308 35291 41076
96806 96930 67041 00710 87966 60547 38566 97321 24854 08571
68786 59770 98036 00165 60131 08282 24043 69994 21065 35835
96062 00491 21133 52150 47638 59046 70721 51215 34030 23602
42700 88276 60947 45034 78157 77250 15324 19814 43401 44474
77840 71342 30416 99742 21871 63424 17963 10574 28532 94302
35517 90629 72547 44701 97220 38231 58593 78306 98044 85918
12820 18129 89341 46975 59235 47179 75984 69865 35647 06900
02274 36520 28828 91790 18804 65404 33627 63655 47467 05315
65673 33925 86795 30827 82397 87476 24825 75350 92029 46399
51657 62711 55281 97131 88924 23214 09385 29427 78331 05104
69187 60562 96470 17392 84980 43241 88089 64947 61759 80630
35009 61827 69586 96954 02868 33760 99769 37106 32889 45723
46518 93681 70853 15567 18776 84913 50470 99596 11920 31903
73322 61079 94009 08621 52590 57585 86277 63086 12723 08124

42534 33185 62266 25999 57201 05549 82011 28322 56636 90939
95666 58127 53445 14577 15240 80018 68476 44841 78312 35293
50177 08795 19392 67467 45990 67958 42544 54158 05508 52778
87467 06251 20033 79217 06230 20277 28263 95924 92818 94968
42778 35392 32727 47900 77005 67568 64736 93164 77370 79343
72096 66031 90306 28350 45288 05505 18818 44519 83556 30732
48276 77831 27399 72205 46146 15689 39199 43674 65327 18363
74192 65721 05792 45938 08951 76945 14209 75202 19575 93664
26255 29913 26781 04106 81272 72882 50069 07992 63994 33311
38164 37489 52996 67823 67905 20431 80578 78620 28791 71762
33763 37207 35350 24160 51084 87117 34530 33726 94877 24088
00300 21740 03741 77104 32637 38369 54847 38765 03110 59292
09390 00000

13375/12158/10562 kHz, 07-12, 0610/0620/0630 UTC

15691/13463/11610 kHz, 07-12, 1110/1120/1130 UTC

11100 00000 31475 06019 03929
34288 95177 95613 96039 05826 00197 60008 27691 78371 63965
31994 93075 31319 52464 61567 17649 44260 00254 79515 20259
11020 49384 35711 23394 84644 43089 11342 33062 70535 60206
34746 36730 09915 01252 55552 92774 20808 62098 56809 09869
88741 56184 09786 39746 24323 71197 01143 31793 29915 71169
87143 22876 42570 79915 54617 60879 45428 06764 93334 85356
64755 00498 09506 13761 94815 42474 35074 06667 17764 14822
12504 10446 10740 04690 59734 00812 57365 30456 45007 75686
05820 00859 26240 70817 40681 42963 34634 96592 60729 59921
07219 19472 79891 04454 97997 36501 93521 78987 22401 16316
77197 98394 14728 05095 10223 76266 03262 20889 41030 20659
32750 84766 36662 50247 88929 62215 83516 66833 04803 13236
31562 45129 53324 74555 99184 25773 56214 22420 80873 22498
63563 89386 24927 79404 83927 33549 73360 39261 69605 83655
81213 08784 86768 08532 57437 31823 25152 84264 94548 06397
26974 57574 79251 06515 39793 28816 01186 94715 22964 03049
02025 36276 62407 82603 32084 51005 73362 99604 06636 63585
95812 11855 79123 38376 12277 10546 73455 09636 42658 13223
42565 43087 95815 40437 45435 89768 82578 99529 59760 18107
19863 23979 72441 35152 80591 41757 15110 32910 69104 71121
36842 20709 26744 67290 31282 29538 97299 68431 60340 99298
07012 14409 41665 84900 38804 36712 92065 42146 05449 43029
44084 79332 51343 44867 77903 85520 37585 01697 35761 71396
90037 80019 11086 83668 15074 50828 29521 78938 12675 73877
64026 67987 41590 42205 51259 66394 16231 85354 01404 12462
39984 54713 18650 38341 04650 39432 74500 05339 10671 86336
01105 39303 87859 22283 96787 27059 21287 02399 60987 59808
12051 32632 00761 34439 27583 40057 76072 48689 21199 89376
76026 51093 25575 69042 43257 31644 49836 95454 88637 64124
34945 08653 63521 36032 47077 57959 81678 27043 13682 00994
08139 21938 31891 64507 57104 68953 03990 40472 66140 19469
79623 15858 38822 09983 09428 59540 73021 72314 39773 14777
17031 82958 03314 70683 20704 87548 85015 11156 73804 61339
68370 64665 48748 91683 91469 03379 89929 93394 67625 65020
16814 92977 50232 95938 32991 42634 46558 38792 58370 49989
10142 13306 26708 34488 66498 63531 15658 46377 51806 70045
01520 09236 69275 50533 55897 71962 92875 97181 26420 81187
73116 24333 68753 10025 24567 24820 22047 04112 99795 58445
45043 30867 79434 21009 55012 42916 33031 67357 36701 91609
19390 00000

13375/12158/10562 kHz, 08-12, 0610/0620/0630 UTC

15691/13463/11610 kHz, 08-12, 1110/1120/1130 UTC

11100 00000 28546 07029 03929
23795 30696 77363 21740 74914 02737 04059 09059 87657 81854
50023 57448 55929 22326 85338 85843 92060 49059 25838 04833

81097 22803 27876 34253 87532 67555 94133 75962 37914 77370
76396 71474 27778 44743 86238 99147 26326 77769 49560 90604
77301 98255 65905 71087 19485 37985 58510 53421 75269 75298
25997 40272 80728 79213 31683 14409 55631 53233 91411 21626
36833 96067 45861 76034 23485 21417 28265 42409 07498 04044
63477 75264 87694 44285 59321 19366 91092 68225 76168 01344
49756 05687 85668 67121 06646 13251 54583 44818 48917 34476
14653 37834 92089 14521 04436 77803 63541 11340 94055 92088
58750 70658 28805 65517 68728 56892 52523 01048 02090 57223
96700 09044 50178 01003 46247 79850 68702 61671 17855 19363
74311 33389 11894 52261 79551 99561 23787 22620 14634 35447
25786 46563 09464 12026 55103 96653 34354 93340 69327 22715
22873 44470 55054 38764 25253 92337 00689 30743 65810 06542
69335 64741 02798 92392 32731 00392 14146 13339 52146 39133
57511 84985 17193 62021 78084 07870 78492 36776 62588 31207
35112 98758 62903 64767 62741 35561 37762 81094 93511 29893
85945 75243 83427 40462 69423 74218 28325 25525 49867 13309
14305 38806 86955 06683 78768 19513 84707 02482 28078 36273
05506 68378 76819 51384 70702 48228 07836 27303 64547 38990
20799 45209 06148 40469 61095 38847 73296 61910 51396 78771
79766 52244 11619 15913 11934 76909 11803 89707 88139 08448
93834 80455 39252 23056 22951 10608 33857 20283 54973 24672
96515 08054 30193 02410 92517 20224 29866 85030 77588 58826
56230 19054 35963 78227 22004 47542 55290 53352 60293 03377
11775 99191 90842 84280 64024 33753 03575 14259 79015 01669
45352 21161 38635 00627 20902 85030 00219 77825 43828 36960
09533 88635 98673 13110 89635 34654 99942 93591 54055 23343
59037 80909 17723 16434 95047 97628 04090 59295 50317 07981
71887 08439 96734 93075 09937 99361 43694 34414 73477 21905
83635 85393 60426 95319 36138 35486 51025 60234 76475 96775
59291 29689 59585 67558 69738 66460 75384 52666 57776 78819
96369 45227 17245 51958 03445 99534 43512 57226 00901 49719
45581 06404 56500 53904 85628 43173 27593 68543 69435 88986
59208 82618 36122 85515 65049 66387 20643 00871 27347 14371
87474 91778 76486 87264 58925 38903 36367 82470 86519 97497
46416 87916 38881 30579 96199 98875 04560 16804 33575 02457
33234 50247 32308 59458 63734 74256 30106 38273 12319 16577
29390 00000

18591 kHz, 0815 UTC

The 0815z slot was a bit different. The signal strengths suggested that it might have transmitted from Chita rather than Orenburg. Transmissions also lasted 12 minutes instead of 7, and message serial numbers were in a different continuity from others.

The transmitter went up on that slot's frequency consistently at 0803-0804z, and I have spotted earlier 12-minute transmission slots that I had missed at the time, which leads me to believe that the transmitter cycled through these slots:

20473 kHz, 0720 UTC

18501 kHz, 0735 UTC

16355 kHz, 0750 UTC (December 3rd, 4th, 7th and 8th) / 16317 kHz (December 5th and 6th)

18591 kHz, 0815 UTC

Of course without actual logs and decodes, this is unconfirmed. (PY)

18591 03-12, 0815 UTC. No proper decode

18591 04-12, 0815 UTC. 1 message. No proper decode

18591 05-12, 0815 UTC. 2 Messages No proper decode

18591 kHz, 06-12, 0815 UTC

File 44437 (binary contents)

18591 kHz, 07-12, 0815 UTC

Binary file 44439 starting with [CR][LF][CR][LF][CR][LF]

Note how the message serial numbers skipped from #37 to #39 the next day: there was evidently more to this that we didn't log.

18591 kHz, 08-12, 0815 UTC

11100 00000 47123 08042 03529
25674 16540 62378 18594 07077 72967 77041 81778 08583 89552
11003 35557 41363 93115 28213 23968 22077 24261 93202 52163
63961 61547 35654 28004 78554 98873 81083 34218 30257 87019
02322 04568 10907 75297 71488 02460 26572 14229 17139 25428
13723 05195 16273 83936 27003 07999 75896 27936 65753 42280
83824 19615 31508 43705 33401 75769 33623 60884 51842 28253
85242 03954 86871 75920 56787 80749 31352 26515 79142 81516
90586 51940 13748 98092 21987 05339 31763 88504 01789 73432
69510 22906 98509 62552 52364 71803 57827 41793 04297 22509
28581 91741 85245 34746 84558 32203 23507 71359 21789 27369
35334 65051 35995 91870 48928 07103 09921 46139 75016 68995
65202 94526 91195 92881 58483 24616 32230 11846 26450 51160
03505 85883 09481 53088 59795 64541 08606 77016 16573 12154
55435 05693 86002 56619 99788 14836 54848 47643 44661 66774
46448 35396 83264 14350 33971 05517 17789 13508 97119 31400
64597 68018 39486 29708 75537 54762 08733 30045 30043 03024
86801 94721 77737 26220 42319 49565 36201 29515 62403 11692
73608 41744 06055 25195 30914 45098 46311 40681 63277 00994
93357 99591 05413 95578 15793 09242 90553 53293 02213 19526
77717 91951 30325 37216 66954 17748 35763 38802 07283 83649
97802 67792 26975 59610 84148 27441 40902 88028 22002 04809
14616 22902 87582 87114 89850 76113 31290 56310 01151 19276
80699 72816 38285 14589 88584 84351 34158 73133 18132 20799
82893 64043 82566 61050 17786 22997 81349 82749 03794 33460
00144 30895 24281 79121 66745 66220 66678 90958 80154 79299
36759 37364 54973 81310 56218 30786 48335 07403 23233 49300
61530 93592 40707 96564 33530 13132 41878 48592 68594 83293
67963 60776 65147 78497 77563 33606 38110 10726 92474 60511
51877 63156 09623 06278 06126 87964 33798 89457 41647 04212
10875 67230 58378 56778 66209 46140 62837 22268 77900 67144
87129 72811 39602 38421 46736 33737 92566 14370 29250 96008
31632 44233 31259 69394 14797 38796 85559 87296 31120 28578
45899 99177 06594 11972 21409 11518 52698 16764 77947 63250
87317 23466 48516 46604 82709 23903 19949 09297 20207 13491
88055 99009 56354 40647 98414 36085 30150 61764 14992 25390
42350 00000

Link 0000 + accompanying E06 and S06 transmissions

The new season for these S06, E06, and F06 schedules started most likely on the 23rd.
See the relevant chapters for E06 and S06.

7482/5092/4043 kHz, 30-12, 1700/1710/1720 UTC

9481/7992/5089 kHz, 31-12, 0830/0840/0850 UTC

11100 00000 37519 29080 02159
16316 78217 64820 09615 48951 29810 16742 98285 34017 45620
57853 62492 89997 08757 32194 39887 67437 58351 42426 53816
08243 04785 19728 31529 80462 22357 80888 58413 93246 42836
89803 54217 21674 98325 65549 82168 96121 86876 04228 26952
35878 59305 06767 02461 31683 50629 29868 75282 06875 04572
02284 14836 11847 64574 73613 06111 31484 29744 87811 85940
10279 99186 98584 88749 24815 53151 68870 12704 58292 44430
21593 42222 56797 98452 33868 87759 71996 45501 91854 28821
19945 33502 48442 71133 10694 94815 50952 53912 28387 65467
31047 68168 66533 80257 74039 71986 48140 92193 09781 13707
85401 89666 92311 98967 58625 09827 60481 62518 19078 71582

96706 30766 45452 76673 26057 85979 08629 52236 22873 68084
24433 33324 17074 75005 99057 08793 17378 47470 96859 79016
93590 49228 85201 98842 85170 78620 36030 04255 28246 72426
88884 46147 18287 87940 05016 79677 50594 74204 67309 82623
05820 68342 05691 01172 72689 77924 52712 46595 25121 35306
59000 91241 95923 34881 23256 37279 14269 89177 16489 56628
99112 64739 05182 25529 25775 83730 03068 02172 07832 02204
06207 20828 61547 00964 91046 00933 44998 49959 80171 94531
89100 32162 05400 20558 62714 37841 22941 59356 39018 65197
60291 05898 55345 88270 99549 05127 83658 78084 26851 17873
53861 87933 02602 80213 00000

5089/7337/9481 kHz, 27-12, 0500/0515/0530 UTC

11100 00000 17935 27001 00049 00000 00000 00000 00000

5089/7337/9481 kHz, 27-12, 0930/0945/1000 kHz

11100 00000 76513 27089 00029

53625 00000

Link 10053

12125/10575/8131 kHz, 05-12, 1650/1700/1710 UTC

11166 10053 17935 05001 00049 00000 00000 00000 00000

12125/10575/8131 kHz, 12-12, 1650/1700/1710 UTC

11166 10053 12547 12001 00049 00000 00000 00000 00000

12125/10575/8131 kHz, 19-12, 1650/1700/1710 UTC

11166 10053 13467 19001 00049 00000 00000 00000 00000

12125/10575/8131 kHz, 26-12, 1650/1700/1710 UTC

11166 10053 17935 26001 00049 00000 00000 00000 00000

12209/9363/8153 kHz, 10-12, 1530/1540/1550UTC

11166 10053 14785 10001 00049 00000 00000 00000 00000

12209/9363/8153 kHz, 17-12, 1530/1540/1550UTC

11166 10053 17935 17001 00049 00000 00000 00000 00000

12209/9363/8153 kHz, 24-12, 1530/1540/1550UTC

11166 10053 75312 24001 00049 00000 00000 00000 00000

12209/9363/8153 kHz, 31-12, 1530/1540/1550UTC

11166 10053 61397 31001 00049 00000 00000 00000 00000

Link 10075

10177/8053/6875 kHz, 06-12, 1310/1320/1330 UTC

11166 10075 45687 06057 00049 00000 00000 00000 00000

10177/8053/6875 kHz, 13-12, 1310/1320/1330 UTC

11166 10075 12547 13069 00049 00000 00000 000

10177/8053/6875 kHz, 20-12, 1310/1320/1330 UTC

11166 10075 25893 20018 00049 00000 00000 00000 00000

10177/8053/6875 kHz, 27-12, 1310/1320/1330 UTC

11166 10075 14567 27131 00049 00000 00000 00000 00000

Link 30154

10559/8078/6873 kHz, 05-12, 1230/1240/1250 UTC
11166 30154 12547 05069 00049 00000 00000 00000 00000

10559/8078/6873 kHz, 12-12, 1230/1240/1250 UTC
11166 30154 14725 12069 00049 00000 00000 00000 00000

10559/8078/6873 kHz, 19-12, 1230/1240/1250 UTC
11166 30154 15478 19578 00049 00000 00000 00000 00000
Bogus message serial number #578, very high

10559/8078/6873 kHz, 26-12, 1230/1240/1250 UTC
11166 30154 25896 26022 00049 00000 00000 00000 00000

Link 40023

25523/20989/18751 kHz, 13-12, 1015/1030/1045 UTC
11166 40023 71938 13001 00049 00000 00000 00000 00000

25523/20989/18751 kHz, 27-12, 1015/1030/1045 UTC
11166 40023 79135 27001 00049 00000 00000 00000 00000

Link 40122

20157/18241/16204 kHz, 06-12/07-12, 0600/0610/0620 UTC
11166 40122 46731 02086 03479
25392 85393 51435 55112 82249 93866 17381 15899 07408 55366
51360 57955 77208 95613 77078 50266 63895 87426 91606 18100
68397 83376 72429 97008 84070 03237 58425 56449 08574 62148
34450 41484 46095 50445 74230 05973 67076 01087 21239 35710
17664 05611 12248 84947 96038 64572 73248 74724 37840 83383
42414 26454 77849 49510 99810 29207 80140 51938 08524 64115
53864 28885 96907 34347 96873 54649 36628 74087 34365 01570
96198 34956 44723 38020 74686 73307 89770 48372 45289 86842
91585 85869 63458 73980 23101 94349 19258 14419 04655 59752
38658 94322 23685 77353 63429 24579 19758 45647 64350 25557
02120 22843 67394 76809 91944 06881 97598 55151 06489 24933
70289 09557 27319 43308 84365 46310 19814 33703 97313 22846
96125 56745 86657 73721 38774 48751 27508 17151 27089 22648
40928 15546 33660 18995 92773 88502 82996 68037 47721 01658
89587 48733 08149 79866 17536 55687 92574 18139 28963 09943
33331 88754 13379 74545 98164 68021 15186 60839 65450 31091
01520 36419 07707 88278 37614 70679 63094 61332 61861 78902
99601 23069 77777 50815 01580 48835 05047 74557 33337 53223
56834 91999 59474 10471 35553 46342 26634 81995 64283 07942
36376 99493 96017 89291 63844 77045 67926 85108 01930 50658
92832 98446 35601 68688 05078 38784 76106 81586 02976 03032
09718 04385 55026 75371 40722 50386 62098 06892 33333 59478
92744 60945 82214 69514 33860 35161 66311 04197 23852 96061
65663 75900 60517 87203 45894 26885 00823 96808 40067 57307
94755 95785 82592 13504 20452 82114 74865 34952 12778 92507
87339 83369 02560 67297 27710 02373 08640 79483 29890 81144
49958 63875 43491 20544 69836 07273 28464 25085 89658 85617
84611 69247 34135 59056 70649 11526 95334 60850 92506 54684
27668 41069 65548 75627 91030 51011 80418 73347 84259 79278
27177 08368 36126 75453 57424 32135 46020 22313 89111 29782
91543 42504 83702 24718 45175 50645 50391 18459 67210 86761
57061 64160 67156 92017 52662 97276 50771 12659 30710 71782
94936 43126 88577 75403 17548 44260 62283 22281 34613 97545
41446 46530 21748 81322 94113 45094 22246 79913 56131 43372
68929 61594 64757 82020 11944 86345 00000

20157/18241/16204 kHz, 13-12/14-12, 0600/0610/0620 UTC

11166 40122 47859 09087 03029
73480 54422 52543 55643 85792 95646 94789 36466 82682 68095
17633 56715 29242 03157 82682 22760 23901 00871 04564 54870
78722 50136 45710 29932 76742 34170 37426 55511 86048 19667
19405 36213 35293 53079 14897 18245 80306 12465 83708 23161
16523 88345 20210 06688 16886 91996 88567 03592 99932 14621
12357 44521 57747 85843 60764 55753 98452 04950 98556 77795
82951 43324 92006 63762 60588 41514 87962 43486 33426 49358
08257 64278 03822 82625 26623 44296 84994 94584 20326 99437
79261 85965 13692 29714 53647 01728 55705 76030 67536 88082
98893 83313 32065 08215 71652 30930 05946 40126 61229 16314
57393 05046 49527 02775 46862 99847 68939 67380 10265 31906
70379 09896 47372 79835 20715 08681 45072 28538 71781 34500
90181 52012 68160 58188 51494 42354 85919 13094 35759 08376
19499 98241 47266 92306 58923 33168 05738 77987 24540 00342
02206 89006 51457 36126 97563 00221 40885 56212 93484 11086
20552 26463 30390 54248 81392 15102 92152 37819 82694 87194
22231 44785 42886 27341 80911 37986 58161 01541 98357 44085
16117 94143 03139 14996 96604 80849 30946 90176 76972 23664
43159 08247 83889 98781 09976 41358 58941 93300 37769 50749
30179 31737 45380 86941 06820 18250 19012 82988 39270 05537
00442 14241 11677 26315 88199 23044 59179 48351 56443 31819
27062 38954 21184 92957 13980 49881 08566 48975 66466 58591
04885 01349 16886 26785 93034 11491 82038 62166 05061 82282
64591 94362 45522 93618 24537 00944 65333 90386 12851 44479
90790 46328 84547 06563 37458 52218 33320 29750 63597 01795
14944 03346 42852 73882 51641 53969 60837 34144 34594 26852
65363 04899 66777 68787 24944 76444 13327 48681 75299 58318
51599 76641 58537 93944 38139 07531 84693 87089 34720 39938
70324 13573 60658 46496 33836 16678 63583 96478 52243 09675
25852 56629 09040 33931 48797 81142 87865 46006 81990 26744
87300 00000

11166 40122 36985 09088 02789
91670 32199 89720 53812 92044 73973 71857 99464 38417 12696
81302 33559 81809 87130 05210 33539 92814 42124 02162 39068
78518 31919 12489 72386 28020 66534 83926 35321 41257 74655
79783 18906 20831 81449 61822 86524 31484 24781 65036 16531
56965 58226 06503 15287 08929 14350 95509 36531 67579 26675
37140 68053 58744 33772 46495 71570 97047 13928 15759 86781
49902 23805 01272 35509 01976 39554 22822 86875 24842 23796
92320 69460 81486 66927 14068 41359 20372 76175 23783 54095
38733 10845 58594 71311 19811 87197 75172 28193 73679 01392
58197 42542 36394 43932 86338 13454 07117 04060 47953 68526
27918 87511 23670 45545 35945 96113 78058 19578 42639 42614
27565 11412 19692 99212 76912 38284 96423 03216 41137 92828
98283 68269 95457 61184 81141 74575 20174 16205 41074 36574
32759 46698 04322 71480 24355 08641 27116 17159 42846 09305
60046 72737 89705 60228 56681 60416 22796 59975 31099 31914
82313 92612 94041 67965 82069 52852 22365 44335 33285 33789
41482 62768 93097 38175 25477 70319 54959 99162 44585 15500
23117 21465 14719 14675 38367 78852 28745 27161 47257 28951
74167 62440 31944 31244 66946 67950 42874 79251 56096 70875
01490 82795 78788 72378 65137 61305 70620 17709 71378 34094
60753 90635 03869 18546 06596 05624 47022 72155 47733 96209
21622 39338 83771 23003 18579 88984 05806 49753 73024 53653
36182 60922 45917 06377 56251 19199 05362 35998 26798 86389
24821 06975 30832 56129 40410 14600 93428 71840 34458 71568
58313 28392 37528 86829 25865 80877 66085 22657 82236 08968
37988 40887 74278 10264 33011 74246 09943 21089 90563 83725
88873 88165 61808 87910 92847 39604 58365 75237 90781 28645
64774 35089 37963 48596 06927 68677 88276 00000

20157/18241/16204 kHz, 20-12, 0600/0610/0620 UTC

11166 40122 25896 20024 00049 00000 00000 00000 00000

20157/18241/16204 kHz, 27-12/28-12, 0600/0610/0620 UTC

11166 40122 65874 23089 03709
55574 64036 14893 31569 50185 60778 32960 73288 13636 42033
07981 35775 81262 47451 28029 83508 70950 18868 39361 08184
18302 94921 13272 31785 35743 25309 11107 00371 25231 53099
89603 79534 99274 38562 13749 87450 89932 22925 69348 26461
50494 55520 92487 99134 79519 32739 58074 19736 21935 22250
94653 57037 26860 70897 17677 69425 66865 19738 98417 18224
48345 74638 10717 70174 67684 05880 22753 25023 92919 75200
26008 29133 75572 13724 18646 61077 22350 99192 85450 00138
81388 05966 41556 13649 22749 26204 32117 24138 17819 85683
05131 42173 47350 02678 99589 75881 92775 63338 16158 53064
90532 12027 62545 16840 54046 80011 90786 80770 93089 00998
68593 54388 85188 86896 51981 75078 78758 62294 51356 07238
32683 81044 08236 94666 21989 73436 24813 77111 64330 97353
13534 06912 46966 91885 58880 26678 58899 56811 08558 93942
57890 06406 36249 63727 27022 70989 43153 64945 00494 44683
90469 31604 63349 02782 80036 74716 54817 37196 25292 05884
29944 83400 79759 48469 59231 37325 15245 97306 70930 85616
66916 12888 65713 97726 87478 60953 58392 53250 77606 33434
26369 02950 84845 11677 69523 86917 88146 57895 11204 58298
10241 45780 95024 86017 25029 66199 57149 34953 52182 68949
78750 46979 56134 26461 48334 71337 91653 30430 88611 17749
63192 57288 27613 30733 90184 63459 18721 08537 95493 96340
39330 15150 59189 31944 22791 58806 04847 75130 03353 35441
10551 83389 78783 60517 61795 00079 20340 37672 88460 08083
84808 37618 53072 39818 08265 85735 82500 04519 86272 81788
60316 18751 70189 00219 21979 51082 34276 44430 20031 16851
93291 53524 51520 83974 75264 84910 64794 75720 79130 21233
87896 81398 71920 75053 45719 10893 05179 89722 58117 53982
55320 59883 36169 30387 17589 20036 18763 41463 08327 74615
16713 59513 55222 67997 56570 15615 80241 17899 41340 71930
04919 60580 70271 89428 32699 81310 84920 26946 88019 28522
33675 32542 16818 35092 71914 13072 78146 95194 40008 92919
81599 70149 86333 97831 50218 21721 27498 24782 13576 96288
62954 83813 60728 08339 86207 22785 07708 96709 59775 70973
59266 52024 46124 62450 69533 38753 11731 25193 31293 60350
46494 46845 48565 40885 65650 53082 72163 21615 86408 59511
02942 95944 96470 83035 92397 31196 56639 23644 89368 00000

Link 60059

9489/7615/6983 kHz, 12-12, 0030/0040/0050 UTC

11166 60070 17935 12001 00049 00000 00000 00000 00000

9489/7615/6983 kHz, 19-12, 0030/0040/0050 UTC

11166 60070 78590 19001 00049 00000 00000 00000 00000

9489/7615/6983 kHz, 26-12, 0030/0040/0050 UTC

11166 60070 63817 26001 00049 00000 00000 00000 00000

Link 60081

9049/8023 kHz, 06-12, 1310/1320 UTC

11166 60081 12345 06050 00049 00000 00000 00000 00000

9049/8023 kHz, 13-12, 1310/1320 UTC

11166 60081 12365 13069 00049 00000 00000 00000 00000

9049/8023 kHz, 20-12, 1310/1320 UTC

11166 60081 28936 20033 00049 00000 00000 00000 00000

9049/8023 kHz, 27-12, 1310/1320 UTC

11166 60081 45861 27465 00049 00000 00000 00000 00000

Bogus message serial number #465, very high

Link 70059

7379/6774/5463 kHz, 04-12, 0500/0510/0520 UTC

11166 70059 15973 04001 00049 00000 00000 00000 00000

7379/6774/5463 kHz, 18-12, 0500/0510/0520 UTC

11166 70059 17935 18001 00049 00000 00000 00000 00000

Link 70202

11046/9065/7479 kHz, 01-12, 0700/0710/0720 UTC

11166 70202 31928 30056 00049 00000 00000 00000 00000

11046/9065/7479 kHz, 11-12, 0700/0715/0730 UTC

9178/7624/5789 kHz, 11-12, 1200/1215/1230 UTC

File 44487 (binary contents)

11046/9065/7479 kHz, 12-12, 0700/0710/0720 UTC

9178/7624/5789 kHz, 12-12, 1200/1210/1220 UTC

11166 70202 85417 11088 01939

81653 45456 28770 93158 10642 83116 32518 48382 65579 33829
75876 62497 64459 78261 90678 12121 52652 29665 50192 73626
37200 24105 14012 16353 96599 88127 60159 31842 70765 07311
21572 85054 60848 44125 69181 98498 93613 78559 08758 05195
30048 69923 83710 31442 22903 63295 01033 95290 52841 89017
22583 31688 97892 28716 88878 80214 15892 46244 67604 96353
44594 07017 44009 72245 49155 34153 95387 77833 71662 74879
16831 58377 62401 75620 90434 49233 97550 89218 15153 93870
12991 62720 39478 76044 08908 79169 64150 02061 04895 51838
07064 94081 50222 94334 47574 80405 18973 15039 92385 93653
44728 09273 30210 12800 74493 47685 67375 09999 46547 84242
61590 88122 21906 32304 96032 19965 24088 82192 60959 25043
66867 58704 35020 44934 74699 42007 83475 03079 25515 00344
15488 60007 70562 07997 67682 99896 10989 46944 06170 09431
35844 15639 64210 34869 51205 93361 57713 28280 55092 33572
45746 18878 37881 84703 28266 70383 12885 61838 98233 10370
06806 17693 90315 42507 64729 86371 93347 77662 49366 98288
18769 44782 39211 89744 42191 67496 55321 55550 60296 17385
71390 18161 30267 79839 86819 11757 83909 93465 67452 04693
33683 88191 00000

11166 70202 97614 11089 02179

35772 86307 58231 10984 49906 92814 36249 60020 47536 31767
27888 16971 97841 69937 46391 19898 25387 76410 43497 34120
64848 39979 15203 74742 42409 19850 74014 61702 19743 09330
86154 99524 61539 17196 97140 98970 12500 96420 94179 82769
94743 74956 78817 42619 61559 68249 48286 39645 68447 78186
08967 65498 47377 08152 70431 06297 95213 48885 93481 76572
12232 14828 90632 15435 51675 35645 02472 62128 66279 32612
98338 53167 62712 34549 74753 08243 99857 12999 50045 97088
91884 41322 78594 04488 02042 07415 33161 35615 38109 34724
28701 28895 85447 91244 86129 68571 38588 91204 59464 14165
17286 19102 74788 89022 77992 30798 54454 95126 56669 11351
24995 46366 03891 94270 32154 37453 98166 71887 11487 90664
48427 51523 87961 47615 21604 37152 03005 98228 56250 41235
92424 64101 48125 56414 63653 78459 18697 41765 45738 29872

02491 03285 10526 61930 14219 73300 88480 46070 81636 18499
27564 69722 55061 31253 68614 06988 29479 83934 35679 64014
40197 50909 64718 16272 17964 27887 19121 79912 14501 03329
65487 84388 34379 61590 08091 38542 34184 22491 05473 07330
74902 46995 17610 41382 38469 63696 57072 26580 44411 95788
42638 45847 27525 93213 78774 70322 62533 99669 09441 22129
46642 09176 19649 75901 75955 91869 83204 91278 76664 93733
80090 93534 76973 39931 31906 89215 00000

11046/9065/7479 kHz, 13-12, 0700/0715/0730 UTC

9178/7624/5789 kHz, 13-12, 1200/1215/1230 UTC

File 44490 (binary contents)

11046/9065/7479 kHz, 12-12, 0700/0710/0720 UTC

9178/7624/5789 kHz, 12-12, 1200/1210/1220 UTC

11166 70202 89175 13091 01959
32117 65224 73120 33686 13471 79724 85348 98847 86239 12644
66729 46596 13878 18641 52438 37258 95253 53258 01218 44699
75455 95718 53112 63741 76619 71825 87687 20024 40971 37883
87429 05732 03249 11608 36002 89655 34719 60932 06062 74993
25962 86673 16306 03352 00602 59969 62447 28368 77201 00453
51805 07409 21469 06078 96189 84762 55997 70542 42785 64780
19703 49254 47700 98391 94167 59758 21887 31442 39053 27587
04104 88273 03791 13445 40628 89011 07726 82688 76382 23967
05909 03024 87181 33615 82715 81368 07776 67568 40491 75804
35390 21003 75394 43571 13429 71950 57645 11034 25050 67918
58345 76550 51289 35256 90076 82203 73424 09715 53450 15301
24260 11640 06802 25607 18028 14222 01224 69236 13592 78260
48108 15138 90637 51863 11404 75120 43537 58524 41764 43349
22578 22023 94779 56249 77244 01574 00480 08759 81235 35666
76286 87873 43909 18035 00621 09401 37838 54199 89334 68886
97170 72003 42166 42632 66474 84595 51399 99748 04762 29292
89920 11186 74371 30755 20855 66669 69407 61922 95974 35480
63413 01129 35062 32034 80971 08861 03418 72166 22918 72576
29702 31089 99855 93020 31295 38939 53659 10495 39364 74864
71650 94496 40824 91193 00000

11166 70202 13689 13092 02159

90849 30770 76501 35046 98423 99656 07949 87008 30217 10222
77257 08474 74529 28744 14735 20474 59065 81419 64709 86425
84766 67266 68826 22351 45678 01209 00225 61491 20786 17030
97022 15516 48773 84862 68567 99482 21608 22936 72862 12769
57934 08231 88639 93144 42174 15759 30483 86169 40292 41140
80469 97120 28159 86165 34742 17620 93449 12041 88460 44159
97016 89989 07582 30705 04667 03907 60876 42577 25292 84754
10651 03778 16285 81381 85588 54970 42172 97450 84165 64290
97412 49179 82063 58172 29291 23554 42031 64385 21849 41733
49612 84467 26786 57302 23208 37733 52269 44090 71874 44055
45598 53216 99327 37609 30648 44064 77565 28752 86035 18876
38562 56239 74946 15633 57467 96960 62566 38942 25740 25380
82035 33583 37670 39877 34885 30430 38712 98157 36880 19415
09068 28952 45209 29235 80970 12152 27964 18485 13093 44605
61836 07902 70517 33733 68975 08408 83717 86178 28949 24650
84977 83647 26732 38704 45689 63156 22672 03650 62969 43853
55362 01696 69026 67618 13370 46541 61721 45608 36736 34661
79757 27956 34211 75210 70936 38801 27143 53225 26917 43832
55965 05813 82915 42545 10222 16017 05786 02390 68061 54046
18918 77004 56142 20558 37383 75714 65889 71673 11781 76489
87031 30420 04206 99546 44360 14296 44788 83784 48656 33618
42229 33239 97705 92213 00000

11046/9065/7479 kHz, 15-12, 0700/0710/0720 UTC
11166 70202 13468 14055 00049 00000 00000 00000 00000

11046/9065/7479 kHz, 18-12, 0700/0715/0730 UTC
9178/7624/5789 kHz, 18-12, 1200/1215/1230 UTC
File 44493 (binary contents). Header 11166 70202 79462 15093 00009

11046/9065/7479 kHz, 19-12, 0700/0710/0720 UTC
9178/7624/5789 kHz, 19-12, 1200/1210/1220 UTC
11166 70202 63257 18094 01579
03410 64291 22084 24671 64231 12774 22206 93026 40745 49009
71610 80698 79916 36704 08241 49451 25790 47231 19695 65950
30129 06568 46679 62817 76432 09138 20951 72050 65767 40725
48656 85483 37860 77665 75019 22002 25872 54490 91327 06166
68306 17217 70120 87960 26488 04468 39555 58338 81037 23618
32859 40255 05790 14138 73826 59880 42598 15338 84278 27665
25443 80694 24443 83973 27304 05942 02170 88939 28221 63128
11946 61256 27981 57805 89619 95575 51875 51563 93796 13213
22960 17074 49821 25836 99252 17846 17306 16830 99317 29876
67124 70028 64659 47377 78815 00491 32371 39781 94341 67024
16481 52198 89124 71125 21416 66515 46306 72036 36046 65331
45172 72607 81721 65915 99670 55638 12751 16361 07967 75404
92771 71146 98966 34040 95417 88269 86762 97474 02758 15158
68907 30610 99916 55528 29494 56416 89322 34398 32941 68651
73032 03427 19452 52867 76547 53773 38060 95421 12582 28665
78216 85150 08200 52858 85850 94155 00000

11166 70202 87512 18095 01779
49651 48353 40191 96780 20675 39529 28968 68356 32930 52278
48057 30247 23338 52743 10751 36875 78830 24665 56245 61643
28497 98924 41067 72802 16705 87860 54423 28961 74356 10313
87165 42647 30477 18322 09051 85385 31331 61436 33999 32704
59229 49540 78019 72534 68252 00171 39501 25414 79036 81227
56559 49952 99835 85043 21110 31984 66050 94737 54382 80851
15385 28786 73537 81255 40843 74755 04085 74105 88753 48139
17798 64817 93984 37220 00792 82488 69563 19911 81477 38380
92881 63506 73057 57170 55657 43277 10261 79384 69866 40854
85012 58459 46811 08336 10702 00876 91527 09049 69765 22792
79700 70916 24249 21618 09301 13352 94048 85974 44104 33632
32516 92459 91301 63678 54115 62678 80371 33183 93810 78955
35413 00026 02893 82181 58127 33911 10903 00228 63620 64158
08374 80357 36238 27607 30049 24088 97597 77533 43275 47922
04021 39564 71268 18404 15544 25480 05923 34922 03703 40882
89863 58712 90268 47632 72414 11479 34134 67022 69195 92090
08527 34604 80006 84780 35747 42611 44707 57275 71608 30924
41769 72323 56771 12499 59194 95175 00000

11046/9065/7479 kHz, 20-12, 0700/0715/0730 UTC
9178/7624/5789 kHz, 20-12, 1200/1215/1230 UTC
File 44496 (binary contents)

11046/9065/7479 kHz, 21-12, 0700/0710/0720 UTC
9178/7624/5789 kHz, 21-12, 1200/1210/1220 UTC
11166 70202 12476 20097 01659
56541 91438 93042 44497 83102 28737 74557 89976 14005 70579
69546 39415 61691 51618 88458 05968 71503 71390 68106 44377
45553 57417 05939 16081 37001 80361 54565 55588 50686 00923
74973 30309 11042 53152 71872 11036 83230 93889 59607 95247
58437 72992 32073 50444 39272 04060 35074 69678 86190 40329
64556 56489 10901 85436 39162 81410 27677 93727 20539 77258
98514 39807 79831 65363 33079 62016 33815 29960 29371 09517
99082 82901 66057 47687 37745 85888 82393 01493 93070 22422
06687 41544 38498 36630 19229 42514 88475 81192 60636 68602

44544 41527 21546 65743 75118 28433 74591 65235 52395 56386
34598 28489 94827 49655 57945 87570 88600 43444 17021 61238
86556 72244 10717 51146 07988 62572 96890 47925 87752 72300
57739 01801 48150 43744 34026 37457 91972 62720 89084 17826
40197 40740 88548 86484 62747 62537 06746 43364 75741 66114
95680 33430 03704 47500 77564 53058 30140 07399 46804 03756
84931 81917 92413 47947 41990 24571 76763 46489 25596 31738
31623 82617 48870 97163 00000

11166 70202 58349 20098 01739
86493 78213 98259 08676 51450 42656 29621 65430 05973 23988
54778 58209 77391 81492 58300 25650 12872 95884 43254 55530
88485 08445 95608 50509 56670 52042 08099 91235 80501 16239
74509 51497 28213 13669 90306 45117 26416 39867 20548 09273
95464 37492 10195 39291 52745 09232 35343 20679 54170 70112
13241 04134 73083 31911 54714 53278 25141 11270 83109 35718
53073 94795 47361 26183 29562 91860 73743 01946 22312 97061
65108 77660 55340 33977 07738 76234 50819 02368 94549 82655
86093 00530 24349 77865 50113 44707 86435 99212 33522 57418
90001 24664 37028 46711 47462 27463 32307 48023 71438 98202
59753 50616 94494 81140 97595 80451 71141 21616 86579 61507
71431 71540 44856 27061 25503 49743 57052 03276 28497 04029
72357 36557 65256 71938 95610 86897 64007 86975 06064 58679
38618 27254 87869 91333 28684 53332 07055 81224 96786 32230
19103 56935 92443 94512 41454 79730 41987 21077 75581 91184
73726 06926 12822 79557 38025 98407 08223 87161 31253 50989
57158 30421 83370 04502 58678 54366 18324 22549 00224 93673
46639 81710 00000

11046/9065/7479 kHz, 22-12, 0700/0710/0720 UTC

11166 70202 14587 22045 00049 00000 00000 00000 00000

11046/9065/7479 kHz, 25-12, 0700/0715/0730 UTC

9178/7624/5789 kHz, 25-12, 1200/1215/1230 UTC

File 44499 (binary contents)

11046/9065/7479 kHz, 26-12, 0700/0710/0720 UTC

9178/7624/5789 kHz, 26-12, 1200/1210/1220 UTC

11166 70202 91257 25001 01879
22749 12542 44786 13837 80380 55329 45058 12787 92675 52470
48819 20604 70465 03206 52740 97958 78705 15301 85557 13116
56638 49589 49568 43169 92736 38456 31761 23426 40374 07919
33008 87125 85150 58022 88760 62669 99817 81213 79687 20570
47740 23397 55693 87278 20831 17349 21753 68111 22892 43188
58997 46437 34305 95578 79494 51316 19013 62362 38155 10799
59710 44306 50210 33038 32211 70644 87684 82440 54900 90113
53322 43008 74228 42163 55379 86080 72171 38027 31745 84667
06614 06351 96804 41535 20562 83048 09505 23260 81158 50094
86037 17427 34410 52922 05602 55158 86574 51129 82658 66155
48157 82163 04133 58458 01424 42692 54995 40096 77404 17329
80654 24812 53296 09416 59612 89070 06216 53540 84800 72510
84241 14480 77056 39052 80671 02260 79153 40826 22448 58009
03847 52130 08676 90310 34355 65591 60175 66720 00719 67718
66010 90153 80479 36042 37927 14822 97112 25018 08637 81407
14648 32896 34888 76162 51921 66725 91256 43625 64893 47695
65600 07630 70475 23997 92108 80314 10284 83388 82891 63796
77792 82658 44031 74213 57283 36168 87057 42821 48065 30665
71760 73815 72373 58553 41291 01185 00000

11166 70202 64512 25002 02099

39301 24267 29427 23120 87216 91758 89177 46915 99288 56956
36115 70223 78367 62202 97446 81592 04764 71917 84613 59884
56068 65447 26246 82794 68478 37417 38711 23347 38057 97801

95201 39079 85373 88887 79290 83582 31969 61316 33905 95090
62062 76395 41637 41816 67958 26872 97347 28705 02578 93345
58989 95302 87560 78514 87593 59430 50363 86445 12348 86342
88810 39042 81715 88058 86514 46916 86525 82562 27614 76837
65971 67555 84271 82952 32458 88436 75356 93959 76234 05219
19762 73433 35751 88055 32780 95474 44672 96068 38992 02884
91491 19159 00092 40043 52679 87501 81090 77686 85300 78399
03338 71758 90051 75186 57798 23540 80634 57872 77015 33229
20423 30213 89211 64172 12346 12888 02946 59917 52938 57489
95777 81300 86482 60991 05383 55724 20188 85394 46530 55844
86343 12241 02390 49825 62383 86672 63587 90380 84788 30729
13451 34756 17791 30580 82889 12863 62786 27355 23337 85748
19410 66290 71196 61575 34221 83850 02231 61318 97900 37537
99325 51347 76948 08051 82082 85098 90766 28514 71645 21012
70102 20421 89238 08928 57781 41024 11818 62121 37645 71826
33299 57182 02671 02878 04788 28901 98171 92557 52243 52368
01042 07538 95031 29467 20971 72604 13791 21951 34564 85026
41044 98283 88322 73176 73019 86445 31395 02207 00000

11046/9065/7479 kHz, 27-12, 0700/0715/0730 UTC

9178/7624/5789 kHz, 27-12, 1200/1215/1230 UTC

File 44403 (binary contents)

Header: 11166 70202 58246 26003 00009

11046/9065/7479 kHz, 28-12, 0700/0710/0720 UTC

9178/7624/5789 kHz, 28-12, 1200/1210/1220 UTC

11166 70202 28361 27004 02039

51297 89088 54151 81899 67310 25202 81274 81832 46276 05109
49071 76503 69849 32959 32673 88422 59836 39044 64851 63060
26670 65940 85520 10127 44557 87967 57751 77366 89207 43623
48718 49065 99116 85701 99029 86447 46304 78773 28877 52160
27473 98715 54431 86022 11514 13976 12936 24230 04294 53273
19931 79213 16663 89401 07032 22317 46634 93836 13729 36507
11646 41836 31613 31280 91869 72708 24489 36967 70486 34950
72805 20626 81872 70932 15832 90691 03639 20825 90035 82597
53444 50444 87079 42527 76545 32722 79893 51509 34994 37466
90243 57027 34440 09113 96249 04335 49466 37157 03271 84666
33400 48944 26623 42537 23525 79512 59533 09299 77655 98171
24799 55162 02981 96510 33571 76867 63141 67521 99697 63171
74467 30512 83085 05371 27303 81523 60487 45023 93379 73908
47180 76067 05150 58781 17953 43518 18044 40018 00853 05941
91560 23493 42117 53877 50154 65240 65739 01411 09838 48230
76101 93079 81449 42447 77103 93290 86513 27954 06248 50453
46643 85635 07083 53002 32404 85297 88483 19503 82602 25827
44174 90031 29911 07082 30941 11003 93781 38212 28983 30648
26583 12092 32821 47328 23896 00552 46213 77857 34911 50101
79513 38044 33854 82824 72907 52617 38392 32144 93963 36740
85940 04201 00000

11166 70202 63954 27005 01919

59258 04803 93435 87651 71544 67781 21431 20001 29422 09207
45672 11449 61205 57540 17916 43016 58204 75358 56191 05616
53768 98334 58472 62132 02434 74710 18780 21709 20103 09947
69168 43424 71193 46228 96030 11559 13703 31528 04152 49626
38120 57908 26959 65359 61116 73743 06396 43847 59965 99557
90868 30998 58622 02170 24691 74527 01396 06814 27471 14647
75163 51948 86884 41652 66049 16419 13251 62594 61523 73678
29377 44213 33838 52742 94082 24336 65757 10570 82860 08917
04506 45558 74100 96905 54873 06839 14315 00145 47430 79061
60812 50463 42760 47355 25245 11170 57681 72148 66470 35131
24367 28546 06176 36612 18320 89937 65684 69081 16132 60538
47396 26152 68959 86539 09292 07868 02666 00561 05947 19491
80563 79088 94475 95014 89678 17592 28866 62559 36507 53006

91126 93853 63159 88256 32681 04985 19876 98532 24467 00607
54806 23978 39149 78794 07026 78497 13913 38725 13707 29370
67249 58382 67384 27341 68193 34471 84266 91894 81428 01718
69505 81390 36718 73759 90389 02751 96087 72804 93375 40382
17194 40240 25909 09030 36330 45395 48967 60236 19492 34632
51263 97110 54949 87951 01046 77078 85762 75314 96431 05189
00000

11046/9065/7479 kHz, 29-12, 0700/0715/0730 UTC

11166 70202 36578 29018 00049 00000 00000 00000 00000

Link 80214

15946/12211/10286 kHz, 14-12, 1330/1340/1350 UTC

11166 80214 65324 13064 00049 00000 00000 00000 00000

15946/12211/10286 kHz, 21-12, 1330/1340/1350 UTC

11166 80214 96325 20088 00049 00000 00000 00000 00000

15946/12211/10286 kHz, 28-12, 1330/1340/1350 UTC

11166 80214 74082 28079 00049 00000 00000 00000 00000

F06a – FSK 200/1000

4059/5263/6925 kHz, 01-12, 0500/0515/0530 UTC File 44409 (binary contents)

3895/4459/5427 kHz, 08-12, 0500/0515/0530 UTC File 44410 (binary contents)

3895/4459/5427 kHz, 14-12/15-12, 0500/0515/0530 UTC File 44411 (binary contents)

3895/4459/5427 kHz, 21-12/22-12, 0500/0515/0530 UTC File 44412 (binary contents)

3895/4459/5427 kHz, 28-12/29-12, 0500/0515/0530 UTC File 44413 (binary contents)

Link 40144

10254/8088/6786 kHz, 21-12, 1620/1630/1640 UTC. File name unknown

11100 40144 96581 17161 03259

KNWQN VKAIR NOAUX VKOYP HJVMQ XIWSS GEARF _____
_____A YUUJT YTKES BSOJQ JBAQK UWUTA
PDWOY FEJSG KHEAU ENDSE MUUHK CWKWL WOBUQ LGFBV NIRRI XXHBI
VQNGE PNFAU NSJJK OQCLJ CQELQ NFVLY ETLFK ARLPT ISGKK YOSFL
YWVYT GRFMF QELKJ HKTSJ CWNRI FWETJ EAMNB CKWDU OSMHY EVSCW
AUJEF WWDMM YRTIY SRGIV HESDT ILTQL KKHIY NUKWG LWXOR IUMAU
WXXAD IVSDX WTPXP MKGXY BUVUX WCDQO IYJMS SQIWM UDGFG RFULB
WDADJ IUKPF MHGDH CJLCK RDUVW PGQOW UBEFF UMWCS HFQQO OEWMF
AVURN MEAVI HIGSA HWKIO SLQDT GHRPG CPVCL QCEFT QXFRT AUFCT
RWKX_____UUDXH MSTDX XHBKX EBSUQ
KDSYO XDUVS BSRPV GCITT IKVNO ABOLS MIEHM LMXVU QWVVJ J____
____VCH UFLUR NDKDN SWCHK CMIIC CJXWD
QPADT DKIMJ ANPXC ILUGF KIPUV KFWHQ OXPTK UTGET ESMDL SROCM
QWOUU GJNEI KYPWW DQCIB PKFIB PSELW RLSNB MJOYI VCWFP MQBES
XOPDG BERST XQWCG QCGXL NOUIM PRJJM QMEFC TWAXO FADMO LISDL
DFTBH TPIJP YAACT RUSMJ HXPFP GBGDI QVMAE VGPDI OLPWH _____
____PTKT ATADN COBTP KMFQJ XVWFI BPY____
____DGP NXBDE YMQCE
BEBKG DLQNP VSDLF EJFJG HDKVJ Q_____EPQJI YUFFH
WGCTR MTYYL LSBIF_____JGO AHLNC
LQKKI MWUID DOHEV OBNSO UPPVY VWJFU NSTPT PYRSI PXIBB JCKLS
SUEDC UBXES MDQEV VBQUH OMCNJ APDAC FHNJY YMFGD JXKPY WOKNG
DWNDO IGVRK FPTVF FUDEY CFBKQ KXSKB RCHNQ SRXRL OAQCW REHHD
____EVQ QVQXA CEDPR ASSUN CVFCO QSDAV DHCNV ISCCX
PLNYT WFBRN YXAOY DIFMS NEOWH BVFCY IMUFV GOGNG NIMMW VTVVY
EFEFE MNWIG JYJWN LOYCD LTKYM GQUQB UMVON NPDHY WGIBY NMJVO
OUFFR XJEIW PFPKG FWPFH KWDXR OYOHL RBRJK GDJQJ AVRPB BIEAS
NOCUY EJHAW LFXU XHAUB AVWXU HPSVX HGSWU PMSJK UEEJC DVLIT
EIKSD RUCVI WNQFI MJSAL QKXWN RBGIR QCXJB BEFPO YXBLQ RJTYI
YEJHX FMFFH HKSUD TFXHV XBOWS UJPJM BEDUS JKDTA BVJGM BEWLN
BINQC QYCNT DQKPI EXITK XJSXT QIETS OYYVD GSSKK JVELE TSFKI
LNLQB EJCDU AWLJS XJMN V PJSLF KVHOU NVUTM KNQNT DVGQH XAPWT
LXQCA BOIFM KWTGT ECHMA

10316/12219/14652 kHz, 25-12, 0800/0810/0820 UTC. File 00173~1.TXT (2126 bytes)

11100 00173 78651 23149 03449
 VYKEK IHSJO EBVOC UKXTS SXPQM NVDEX OFHSO AMAWS OWAQY ATNQH
 IBGUK XANRJ VXSIK KXDDI QDXNG FKIIA XFNWN AKBRI POTUL WULCB
 UWCEQ LKLIN CXICI NVCVU URHQO JNVKS XHYNU VPTXH MPRCD AWGLX
 CWLOG CNHCN MYMJG OGYPR SDDMH RBQQJ SRGRP XNWL B UMPKA WHUVB
 FOPBD UNEAJ EFDEN KYAYO UETLR YVKWH YLWYX NYHLF JEFCE HBYED
 DDNXL OXETN TMAEV MVOQL OTUQU JPOVD PTFDG OWEXG NUXIG CGXGU
 UQWCG BDJXU YHONE PBFOW OAFXI BXUXG PFPHT OBIPN AGJSB EQDRW
 IKCXB MYJFS QMEKV MDBUY VFRLA KBPXU MKNBY EMEBH HYAWW MUJHN
 MFQUW MRFGV EFHQY FEKGO TGGLJ TKBMW BHKWY TORIN FBAMP GYLVD
 ELJED TXRDG IYPVE KCNWV RTIOY GKTEU OHGMH EALUF AQLIQ BRXKO
 YELYV VEQJR TKEPV KYXUR VDWWL QJYHE NHAEK YTMLJ RIKTV LJXWM
 LJTKE KPLHX OOHJH VDJXE LOBXC OCRNT SEUIC CBPSF NOLCR YLNFN
 DVJXX QJUTY ESCUR YEHSK FENTE MAWRX GNVNE REMGT CNKNT OWQFL
 TCAQH QHYQP RFSJK IOOHJ DYMFM BPAEI HAKIQ REQUO GQAWC PBOWU
 KCWEU PXBND DUEPI THHCK XVPOK VTSTS FEEIX MGVKI MGMQO YFDQI
 HWGAV ARJDY KHJXU RXFHT VTQEU FAKS XQPHP ADMQE LEPCU VDPGX
 RSHGB XQOTT AICVF BGHYQ GIBEW XRGPN MMQWC OADLO BLVHM MTYTA
 YDNID JPUYX DPVAP XRQUQ SVVJI JECMY BAAOO YVCVW EHGBW WJGUJ
 UUVUY YSYSX VKGRD POOJI QLPDE WSTCV KSMHE NBVWV IGWTY EPYSS
 SVUWI UOAUO EJOOK EBBOW LOSFE VACXI LNAGX UYGSH DMLDO VEYQX
 VQRWG SORQW RJCIE UNXXU MKDXY YYOMN HSAMP GUVMR JNUUE YFQWB
 KKJXP PFOMS CCBPY LXNWG UJAQJ KFRXO CEDNI KXOYB BGXJD NOUCF
 NQTQT MPXWA GGDLP BYEWY HITFV INHKB EFJPD QEBAD YAXAT CDLMN
 QKPVY PVKIJ XTYBQ QDRAV HTEYT APPNS QPXOR TFNDM NCJRB RECKN
 MDIRK RKF DL MJT LW OPVEX SSSLW RQPHE BBCQE RPJOF NIIJT BBQTM
 WYYSQ GJSQV YAQKQ YEOWN VNXDC HEFML WTKSE NIDOB RXTRG CHETG
 GBUIG TLCAQ STBJE ISLVJ CVEWS CGVMB RNYJY OFJWJ XAQRQ QPUCI
 XDIPA IOBPP CYUIH DUBLF NFETR QLOPK VHGFM WBGNF RQFBG MOLSF
 HQFFN ISFKR AEPWN ITKRI NGJMH WIYFV DKBGM KJYYH YJAJD CIVXA
 CQXOV XDVNR RFJOS QQMRV HCTKA DFFFX SSDUS PXVYV PPQR PFSOO
 BCVAX KNRQY RNTQH YNOTY XRPKS IIAGJ XGMPH TTOJF KOFJJ CVTLQ
 AMCKD SQVMD JSDTS HTHXP LXPKE VTKUK GVTJL YBXGT JCXYE SCUUV
 MCADG LCGYG UOGDN SLWSG KAYSE OVJJV MXUBJ CNXDO WGFJK IJYVJ
 VQCTK RCYQK BXGGM GDATP POFGC SYESR TEJFJ QRJOV RCBKB WPCCG
 HMTUK GFRFF LVNUK

12227/14423/16283 kHz, 26-12, 1030/1040/1050 UTC. File 10053~1.TXT (2071 bytes)

11100 10053 21978 24161 03359
 DECPE PQURX TUJUW SUWIM FKFUQ EHJOJ GKYBE FHRXJ UYHMF DKFXR
 GGWPK WYITU VHGUH JCCYK IDIQG VAMCI YALSD VVIKF JCXKW NYLUR
 DJDOB ACCSR SANBT EFHRT SMGVF LLIVO PJVSV XJQCU RAUIH VMQDW
 FLOWM DHOAC XIENS RCCER OYKXH MWTGG RMVKJ EAMDF FXCEP MQTOQ
 SXPCR JAYCD BALSE HYPPI WEHEH TKMHF EXARF DPNGL OHIXR CVOUC
 ANANG HMTKT EEWVK WHLLW BUATW YMUTH TATOG TOBQA XLLPA GUYQX
 UIBCF DYATB VIHKK ENPOI UINRD HRMRA YUPBM OWAEW CSIEI XIEDF
 AIYPH NYVMP AQUWX NITUD KKVVR AHRTT NXKHE XQBLS YNFDR IEPDI
 TIDHE MMTGM WQOOW UKJLF WFWSH GWUAL BEPKC IYODD PQSYF EGPTB
 VXHJY LSIRM INYJC KJCYE AIKCH GUDWQ IGMCM DJPOJ FVJSJ EBHQG
 OLAME GJPWG WBEGJ NCHFV IWMXN EKDIG SJAHB GYHQL JNWDK NUCJJ
 TLBAM FOHTW UJBXF KHDHU UUHJG MENRL MYNMH JYQMY WKKAG LYKXF
 GAIBA NYVOU BJHWY SDHQO MHVSX MMITR KJLSP AFAPE TYOLK PVPFO
 DUDRI GJFGY VNFEX JWATF MPYUC IHXBG ORVQE BPJPS LQIWB TJVLU
 VVLNH AAOBN NMWOF URJRW POIRX SSFVR GOWYC MYNBR RYKXG VMNXF
 ERHKO JGTFD CCHBO VNHFH ICUPB UJQUL OHHWR YHUQN OVEQK HWHPV
 GIIHA STCJS FOKRY TSDVF EJCLU SKWAF UKISY OKHEJ YKRON WSYLS
 EQSND SFDUW NAFHR QNHBE YDJNA IJQSC VSLEX AECBG FSCJN CRKSS
 RCYIH PWJMA UEYGI TEQWT PEAJU GFPNI OEVD UYQXP WKJGW IUQKF
 COPLN EYAFU NUORV XQADI RIRPN TQGHA FCSDH FWYBI GBJO MSJSD
 BUMLI QAEIG PLQSW RKGFC XDOFL OUQIW TBMVQ ENXFG ARXNJ GTHHV
 MFSTE LABWG GIJJU WHFGG DYVBV AOQSN TXOPS VQIEO WFUID ISUNS
 SOLLX UPHHU HVCXF VPKDW HWENE KXXRC HKLHK BLORB HHCID YCDFR
 PITXP DEVSU LXJHG FAINB SWBPX TFQQW RIMBA RIUNV PPJWO WCGTB
 JYQUV DRRGD KGMIV QMDXL QHUEJ HMFHV YECDS FUXMG PHQPG WVPYK
 LSQCS JVXQS KSKVA NERRA MKEKP VYRMB VTEKO UXTQF KHHVP MGBFR
 CDBRI NILVP BBSKX ECWAM FDDFB ORPDU MNJXQ MCBUD IYEKR SUPRR

VMMGX JYPMB VYDPP WXTUE AEEJG UHEKH PGIKY RXXTY JSRSQ FTRH
N00JK RGAAG PTW00 MOFCR HYKWy JXPJC TKQLH VHEUC KMTNG JUVTB
FRRGH VXHEY YKHIG QPGJL EGBPO AIHKE PDDQK WKGXY CNPXJ USPAQ
LJHYN JDNJT WVPWK OEDSW HXRII HKKFI VPOGS WKOXN LYVCS JQAVQ
VRJSL LTVVI FJIDD OQVHC VFLCE QOEEV SKBXN DEXMW HOSVO QSHWV
UYFWX ARCFL JPGTG YCWCT QMMSJ NNAEO XFPFQ SHKOR EAKDF HYKNU
JAJKN BDRFX IWYNQ BUNQY

F02 – Russian domestic net

Mode: MFSK-4/150Bd/4000Hz

15626 kHz, 01-12, 0830 UTC
14837 kHz, 01-12, 0833 UTC
15623 kHz, 01-12, 0845 UTC
15626 kHz, 08-12, 0830 UTC
14837 kHz, 08-12, 0834 UTC
15626 kHz, 12-12, 0830 UTC
15626 kHz, 15-12, 0830 UTC
14857 kHz, 15-12, 0840 UTC. Weak
14857 kHz, 15-12, 0853 UTC. On top of the one that started at 0840z but much stronger
15626 kHz, 19-12, 0830 UTC.
15626 kHz, 22-12, 0830 UTC
11463 kHz, 22-12, 0845 UTC

F07

7526 kHz, 05-12/07-12/10-12/12-12/14-12/19-12/21-12/26-12/28-12, 2100 UTC
7453 kHz, 05-12/07-12/10-12/12-12/14-12/19-12/21-12/26-12/28-12, 2110 UTC
6993 kHz, 05-12/07-12/10-12/12-12/14-12/19-12/21-12/26-12/28-12, 2120 UTC
6773 kHz, 05-12/07-12/10-12/12-12/14-12/19-12/21-12/26-12/28-12, 2130 UTC
5748 kHz, 05-12/07-12/10-12/12-12/14-12/19-12/21-12/26-12/28-12, 2140 UTC
5169 kHz, 05-12/07-12/10-12/12-12/14-12/19-12/21-12/26-12/28-12, 2150 UTC

Tests:

10751 kHz, 06-12, 0900 UTC Message
9142 kHz, 06-12, 1000 UTC Message

HM01 - Dirección General de Inteligencia

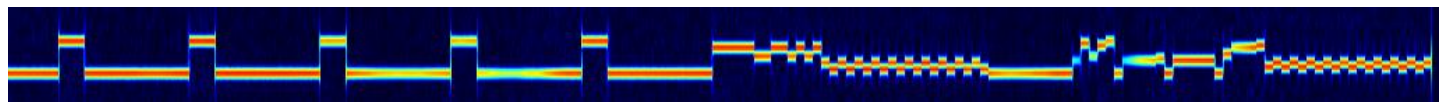
No HM01 found in December

P07

6986 kHz, 03-12/06-12/13-12/17-12/20-12/24-12/27-12/31-12, 1500 UTC
6774 kHz, 03-12/06-12/13-12/17-12/20-12/24-12/27-12/31-12, 1510 UTC
5853 kHz, 03-12/06-12/13-12/17-12/20-12/24-12/27-12/31-12, 1520 UTC
5336 kHz, 03-12/06-12/13-12/17-12/20-12/24-12/27-12/31-12, 1530 UTC
5082 kHz, 03-12/06-12/13-12/17-12/20-12/24-12/27-12/31-12, 1540 UTC
4609 kHz, 03-12/06-12/13-12/17-12/20-12/24-12/27-12/31-12, 1550 UTC

Tests:

10751 kHz, 05-12, 1130 UTC. Message 2 channels
10751 kHz, 05-12, 1230 UTC. Message 2 channels
10386 kHz, 05-12, 1240 UTC. P07 variant
9236 kHz, 05-12, 1250 UTC. P07 variant



XPA1

13465/12165/10265 kHz, 01-12, 1310/1330/1350 UTC

412 412 412 000

01468 00001 00000 37257

13465/12165/10265 kHz, 06-12/08-12/13-12/15-12, 1310/1330/1350 UTC

412 412 412 1 412 412 412 1 412 412 412 1

00518 00180 99495 50703 95824 92164 63297 81290 01768 80455

40996 74634 22591 85599 06281 01534 20899 00868 69844 00777

70975 23795 58316 33290 90167 28830 48469 22587 89287 41095

50200 08334 15458 89452 91563 49034 30108 73207 55986 34363

80543 13577 78126 58207 83388 02091 66535 08264 32761 28868

85455 87842 80436 98084 56089 77003 02846 94660 98400 08862

91460 37724 29546 38542 98681 14475 28453 00049 18555 98382

02608 55564 55110 86845 43749 69043 40501 21321 66951 75628

94132 61196 66410 18622 90015 85701 92419 70371 56078 40667

38331 63257 92110 67840 93538 38051 13362 72480 68910 50872

90498 34311 47132 65926 07436 19272 60305 54799 32332 75044

61047 04047 59650 38790 03307 00944 00112 04596 02794 86588

45468 42903 81350 34918 71537 20236 82937 19744 56662 35713

76250 11677 59365 65442 53783 26835 64228 13394 09068 31019

86952 64840 89122 94945 11212 24556 54864 07692 31042 29895

21217 92528 27116 61332 07330 50898 84640 63175 10912 40705

50160 72273 48683 72550 53933 80333 58414 03925 14315 16714

09956 40327 92830 91252 03583 64497 88051 26491 99952 37048

33017 14284 14070

13465/12165/10265 kHz, 20-12, 1310/1330/1350 UTC

412 412 412 000

05699 00001 00000 40666

13465/12165/10265 kHz, 22-12, 1310/1330/1350 UTC

412 412 412 000

04990 00001 00000 35665

13465/12165/10265 kHz, 27-12, 1310/1330/1350 UTC

412 412 412 1 412 412 412 1 412 412 412 1

05329 00110 63538 62934 93537 13801 37240 90830 15705 95352

15785 89151 24641 95346 98732 28837 54770 72706 01331 43854

40378 96654 79947 34942 34523 74563 43677 96898 07794 64771

18872 47258 80301 60416 25861 87920 77559 70857 34285 70571

54238 28161 57143 47675 97777 78590 29052 47151 12755 97676

98948 64756 68618 64099 51317 02789 01125 87004 47405 83754

67098 31308 07277 36406 70575 81254 55889 57431 77168 69362

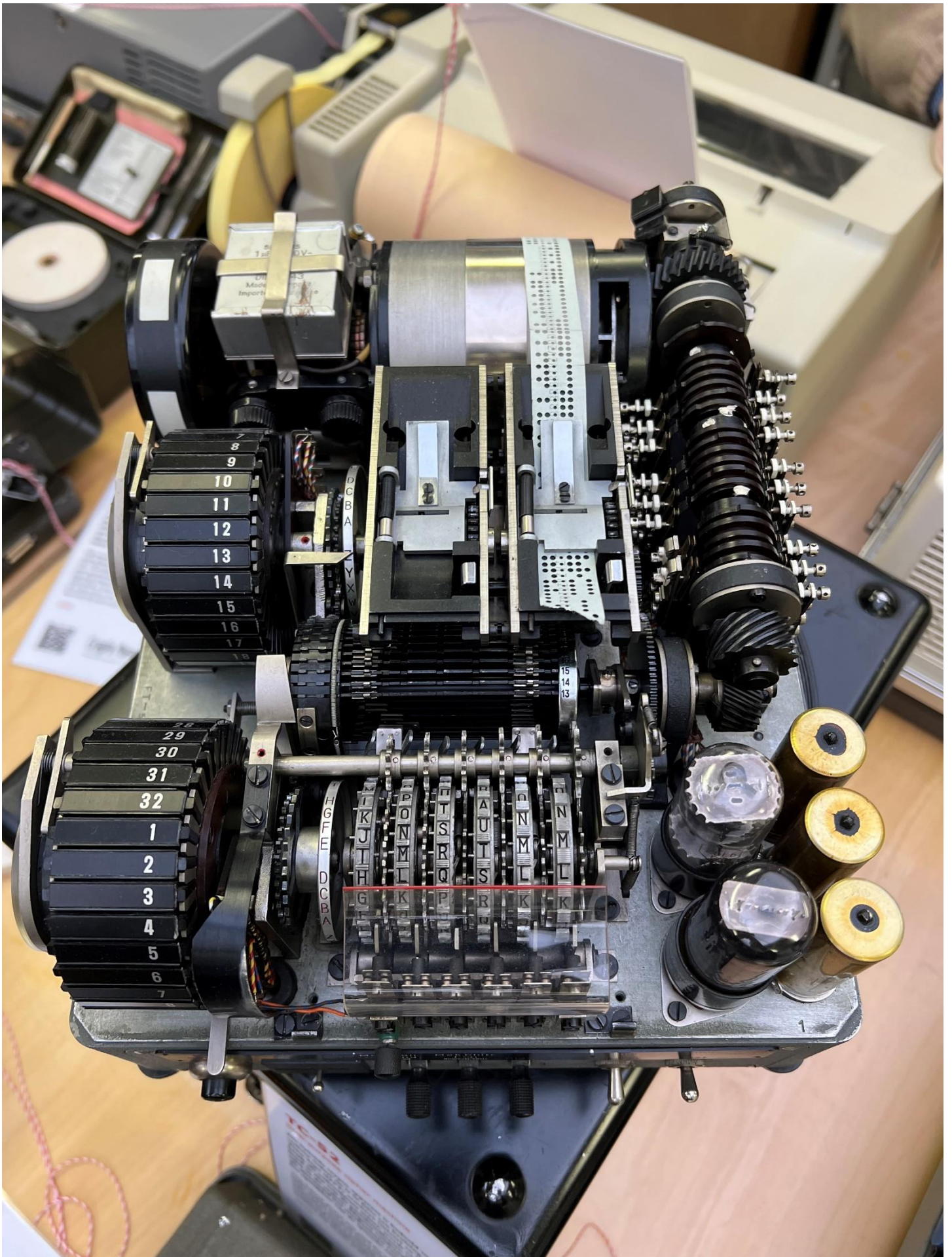
96675 58104 75789 84815 37050 82548 70191 51724 95265 49195

76861 92651 33356 16194 75959 05202 06131 30172 35527 76395

24474 09962 26374 35479 57363 96358 32357 62182 44907 62594

64065 44553 84273 31360 19691 85649 95710 02402 15333 15539

00189 50100 20352



Hagelin TC52

16347/18247/19547 kHz, 0900/0920/0940 UTC

16347/18247/19547 kHz, 01-12/03-12, 0900/0920/0940 UTC

06814 00105 52314 14458 77006 29689 69763 16682 01707 84599
29114 82860 63037 17467 56334 49259 59453 16669 71220 59198
73022 99595 74867 81334 75723 95713 87558 43970 82336 48845
55582 06193 35953 65448 52659 61125 79757 71671 42949 36931
13033 45323 57174 90449 55531 38287 96087 77059 88774 95726
82339 26940 32345 79006 40703 41595 31184 65577 87287 17161
78216 94808 53944 87570 16677 09645 97974 07635 19184 18457
60943 47426 51155 96177 18949 20331 02117 01864 77173 90041
38610 54481 08726 86607 60231 89351 66485 52707 28490 18579
34475 86142 59025 22850 19409 23287 50547 05634 92328 10034
59227 32650 18094 37551 97340 21583 37331 55375

16347/18247/19547 kHz, 08-12, 0900/0920/0940 UTC

07537 00001 00000 37262

16347/18247/19547 kHz, 10-12, 0900/0920/0940 UTC

02154 00001 00000 33657

16347/18247/19547 kHz, 15-12/17-12, 0900/0920/0940 UTC

00178 00069 37642 86911 43916 49985 76354 03865 13225 67908
32961 46079 72957 50423 32935 93795 62652 33482 94658 50920
10064 75500 92565 49188 07759 23982 68578 87701 62915 16298
43013 10772 68672 10006 04849 28364 51091 25185 77035 08180
46952 09480 81664 73660 17555 11466 01528 74637 55022 89763
47344 68290 74904 66074 50817 34141 69485 74692 23540 66809
61350 73904 60147 76037 85053 44068 97030 30595 92431 65487
60338 50063

16347/18247/19547 kHz, 22-12/24-12, 0900/0920/0940 UTC

01603 00127 09418 85095 08560 52973 10915 02910 37933 29227
92737 49390 94746 95822 39882 93809 66583 77754 22309 03361
28410 27140 39839 42886 02304 40317 62554 72336 69378 31208
31276 74607 20760 96952 64871 30731 92152 05170 22947 75981
25548 72942 35354 38736 60822 40703 62349 65141 49034 56665
39072 55798 38575 14781 07130 20437 22804 40215 01556 80533
56400 18427 34915 70416 37707 62205 80282 25244 25279 69960
33169 51703 58202 11123 46759 17123 06027 79491 32872 25750
62176 37374 74153 02510 07748 91308 99074 30826 36637 82697
64121 31439 84677 86165 84352 25790 89305 00852 87847 41090
15543 14816 15761 70515 45746 68532 04881 01002 79991 56659
20385 99668 42399 17329 38256 09767 11165 97595 99718 49774
18849 96111 46434 17600 52370 11555 32329 14266 52421 30057

16347/18247/19547 kHz, 29-12, 0900/0920/0940 UTC

05075 00001 00000 33664

16347/18247/19547 kHz, 31-12, 0900/0920/0940 UTC

03372 00000 00000 33662

9265/8165/7665 kHz, 1100/1120/1140 UTC

9265/8165/7665 kHz, 01-12, 1100/1120/1140 UTC

02481 00121 80187 19434 66338 43343 91870 72723 07711 03401
52377 18196 66039 47469 37795 57920 94965 54079 02483 18249
98909 09418 31962 52067 54905 18891 07175 21251 78171 48397
35989 99576 41028 87309 20176 76985 24554 38530 18989 04059
56342 03727 69901 21742 24139 38730 07711 00193 21136 30607

78949 16178 32504 29155 35148 05115 81085 13908 68372 75236
88342 54778 89261 82052 00290 74904 06851 79570 17673 37596
67289 21870 18723 54857 69932 87276 34128 35174 56922 20978
31974 21461 06728 55521 21313 30654 39186 94790 52970 20687
69359 32927 12169 43660 44486 93286 24714 31990 96021 72503
64232 30393 92223 68884 70870 23065 82582 41576 34519 87942
68087 83021 42530 74356 13224 54958 80064 56461 66954 74379
02333 46974 39694 66062

9265/8165/7665 kHz, 05-12/08-12/12-12/15-12, 1100/1120/1140 UTC

00682 00090 53172 32707 08257 84893 31706 28840 09104 43716
73658 61870 56837 35298 72738 17321 95566 69868 41724 77010
59788 54146 44957 58221 16089 87716 58418 81229 55572 50706
35124 29894 31833 59758 16924 98862 19895 67890 90979 57921
61325 81940 16639 84151 28327 24068 23267 33987 14926 63065
18098 09239 79002 13248 10262 60268 69075 82032 39060 50301
57073 33362 20191 72615 48884 65706 48211 71762 65690 38246
91507 64763 78235 60115 18918 27312 70048 19769 04762 43505
15657 52925 87831 70814 94962 80026 54531 37922 33535 39127
01089 75986 30212

9265/8165/7665 kHz, 19-12, 1100/1120/1140 UTC

09207 00001 00000 35661

9265/8165/7665 kHz, 22-12, 1100/1120/1140 UTC

01897 00001 00000 40662

9265/8165/7665 kHz, 26-12/29-11, 1100/1120/1140 UTC

00187 00177 29565 99873 80095 77969 43604 47087 77149 96001
40262 45310 15745 22236 09959 28584 42526 51767 15341 88426
63543 16062 76305 09421 22155 64537 22363 00920 86588 83186
75844 31386 65850 74157 11763 47157 40624 93257 99904 80617
18518 35330 57787 46178 89513 41648 56123 42941 80101 07698
56419 07373 73142 71521 00268 14527 28530 13880 34296 16634
98629 54787 57020 42048 36666 33881 72825 97982 01844 42031
51698 04405 09986 18498 59336 96460 97220 12993 79753 94237
61987 12062 41277 26994 70609 30458 12125 16595 25122 72302
21745 33411 81828 05679 72375 60314 22203 47930 43952 64932
82999 23083 04039 69366 07629 57535 53501 15539 03078 22243
55866 82717 30809 18463 16185 75187 79847 47037 20504 47269
14227 25888 51678 72302 57466 15352 94864 19982 71510 54173
22074 81225 96496 29408 45187 07365 47710 73659 39222 22940
75510 41991 40869 61499 18560 87504 85843 17734 14466 88703
05212 69663 88543 78476 56291 51659 59583 62672 36081 37299
03835 27313 09505 03681 35960 80379 96238 36307 71337 33847
44560 69573 88718 53557 60772 23463 31433 01801 13703 56271

14841/16241/18241 kHz, 1200/1220/1240 UTC

14841/16241/18241 kHz, 01-12, 1200/1220/1240 UTC

00394 00074 90690 83110 09171 33770 33386 58443 28166 59813
41814 74085 52458 49922 56372 41449 40178 82861 42873 31342
51626 32309 47586 60318 09706 68263 50804 52943 76480 49357
78349 65071 26234 71801 85977 33305 37292 26335 24227 36237
29255 41346 43740 24067 04406 60764 20653 25075 28196 75262
45878 01192 79705 70968 50962 97407 13369 77242 38664 97120
16270 24187 27105 50368 97668 36824 15124 23710 07242 87769
64522 88573 32590 33884 23989 47207 64052

14841/16241/18241 kHz, 06-12/08-12, 1200/1220/1240 UTC

09422 00138 71796 97834 06699 63030 16768 98652 80743 52391
66379 85334 50941 73841 27706 82713 87221 25786 00331 97791
75200 75298 24666 82678 01295 58249 76291 02108 18456 32113

32742 96184 47123 66808 66502 05131 69810 90822 18154 08164
17780 28766 98155 25332 81379 64553 66482 75551 06950 03989
95829 07812 81009 64435 35400 71244 14110 01559 40479 98006
38915 71797 68470 94002 40580 91514 69815 38499 51145 92426
36753 86547 74343 25250 65492 72549 61820 91617 26707 92758
56376 57535 12373 68929 84362 66602 45356 08044 59336 36013
02492 27964 49636 33238 79169 92702 85627 16464 80237 31909
66182 15415 30158 79218 41966 80446 67638 34161 24725 06617
37742 21016 71545 43130 60778 77375 26360 37800 82911 19132
42761 77723 31549 48771 37178 24230 14426 75417 25521 11862
56336 04317 29035 12069 44838 55529 99135 74877 80879 22036
47031

14841/16241/18241 kHz, 13-12/15-12, 1200/1220/1240 UTC

04224 00098 09442 67394 87376 97916 19822 32674 32216 96146
82877 18602 53089 48577 87601 21226 82578 33589 41111 43696
50698 08270 46239 74004 70342 31546 43927 50128 02380 86238
98234 54319 31922 95800 55883 44088 15638 21780 84188 51716
90361 31812 91817 80006 70382 55884 67157 00347 76378 05210
10629 90243 71253 09231 82068 79298 40722 45531 95224 81989
34892 56609 68480 95635 85875 10045 16272 89448 66859 41678
80297 80887 61323 90676 73211 85508 72745 39001 69574 88124
21796 86521 70679 98286 57725 57435 47433 29999 75304 81822
20762 65253 02391 87546 53587 22846 36648 74672 99544 53234
04623

14841/16241/18241 kHz, 20-12/22-12, 1200/1220/1240 UTC

00432 00085 52544 23468 93494 33288 12817 77801 34853 08297
88171 12667 27535 83206 81436 68813 99007 56880 71475 49914
11494 44804 61628 85052 36310 47162 62688 22747 84603 98079
11940 79419 97081 66137 67264 19686 88072 25600 01543 52755
11247 43289 48554 72529 67245 64832 42192 28430 30976 23177
98904 75726 13163 69995 26704 85829 26369 22299 33925 97863
92509 32488 39596 10995 55583 11800 61301 02013 68053 58528
08471 87766 48274 14855 21008 10875 34168 48902 20718 29682
44334 10944 49248 76691 46321 86303 75186 56305

14841/16241/18241 kHz, 27-12/29-12, 1200/1220/1240 UTC

00521 00194 24709 95166 36768 30386 03028 54488 61735 69422
48622 92616 60209 96722 62400 04574 38563 47621 02183 87055
06668 27399 54770 90527 13040 98313 15932 69557 28986 56450
80020 87226 37586 95472 71630 41732 13068 53651 02666 38190
26118 35043 22905 39908 09666 87221 70351 08178 96357 62339
81985 27969 17071 26689 40744 53936 25473 10771 83814 90658
72781 96203 87959 81742 01117 31649 82573 82230 78760 80962
14650 61294 31427 60983 47500 43962 21148 01095 95001 09638
78623 83823 70973 77467 42040 06038 23814 54121 55955 10869
79027 34711 53961 81325 84564 60506 63553 18675 56621 62558
40168 73206 25273 41776 27667 00317 25593 89730 59463 28197
07383 72528 26691 67601 19430 49565 22523 25092 28407 18419
22979 35028 83905 90054 68356 28393 59186 31817 27311 86544
67515 20994 74571 87558 42193 87620 94797 09729 18904 52281
17883 25969 03890 96491 53749 58360 10714 99480 01016 45659
45863 64502 15990 25420 81085 11824 28208 86032 95338 78480
26735 02621 04721 09276 07703 83414 22799 32630 05844 85039
92828 13209 77545 06439 67332 62861 83534 56816 25861 00221
91680 56560 61621 74190 09339 26688 21567 52011 12181 66537
95622 12042 97780 99519 14711 68113 12313

13919/11519/10719 kHz, 0910/0930/0950 UTC

13919/11519/10719 kHz, 02-12, 0910/0930/0950 UTC

00605 00089 50281 18282 67925 64134 58214 36907 73277 59583
19375 93693 06646 95801 87359 77102 30958 79287 57149 73990
51131 39620 49605 25272 03742 44204 09287 88342 78288 50648
57370 11432 15601 91942 87557 12728 91346 48415 03426 37961
24166 47919 66990 60968 43178 47510 06926 66451 46918 24764
48058 05765 58389 36006 69336 99686 66372 08874 05687 45170
45040 50277 44394 61084 60563 30574 27679 13040 14832 36346
32627 64219 25265 09106 69114 63353 01292 34824 59587 82078
12501 54894 74063 00782 41234 74559 94066 73708 61410 50189
20967 46716

13919/11519/10719 kHz, 07-12, 0910/0930/0950 UTC

03352 00001 00000 33660

13919/11519/10719 kHz, 09-12, 0910/0930/0950 UTC

07301 00001 00000 32257

13919/11519/10719 kHz, 14-12/16-12/21-12/23-12, 0910/0930/0950 UTC

02225 00109 77662 97762 71447 82203 13078 59699 37002 24705
92896 44569 25304 73553 64886 64733 34041 61574 06071 18615
19294 98569 79738 47500 21561 54614 61801 89103 59959 24130
88935 96291 39724 47630 90471 15334 36291 53888 05236 84796
30973 94291 22693 72621 61061 99991 75524 42067 45198 49451
50770 84654 02802 41768 69243 69913 32723 56698 81981 69297
43728 35381 48400 36901 44623 90100 63835 07802 16707 20775
83418 70515 17457 91917 96025 85510 26941 11030 95702 52804
32264 26320 28419 59892 17475 79820 35640 42670 24417 92442
07712 74867 81205 18431 11863 35381 96339 44337 73188 12789
18028 93319 95240 17397 13088 53064 54447 08732 85894 75058
31459 30001

13919/11519/10719 kHz, 28-12/30-12, 0910/0930/0950 UTC

02485 00088 94990 65059 80735 38728 47228 77531 59715 37473
65129 71938 99461 82102 22145 80935 75787 98525 38032 50125
27690 94035 31942 87795 25554 99338 33335 88185 99283 75921
06113 44492 88808 59231 62731 18374 31462 28082 02027 16334
59310 04694 63754 86292 58153 81332 97144 30362 24074 23951
19082 65416 29777 74754 47038 52997 25135 53927 56262 43783
27693 53025 97436 40658 04540 35773 47412 63364 35414 05203
78983 79273 79298 21399 68070 20849 43497 52393 34821 09213
52554 41542 44539 73162 93699 50058 67944 87968 77390 38727
30620

6984/5884/4784 kHz, 1600/1620/1640 UTC

6984/5884/4784 kHz, 02-12, 1600/1620/1640 UTC

05340 00001 00000 32661

6984/5884/4784 kHz, 04-12/09-12, 1600/1620/1640 UTC

03920 00259 04709 89792 78720 90158 84577 16367 12379 80311
50952 22301 93030 80819 19393 63216 33880 73473 41952 87931
78533 27816 35097 27225 79371 12598 89389 32105 09283 05912
22386 43101 20142 57053 87336 63741 18657 22734 34421 89364
35687 81048 86718 02784 37187 64967 12317 71345 44298 34282
24625 01664 54365 18056 05447 75030 13430 58006 58233 96536
62554 88547 21356 88600 35184 73062 77520 85784 89543 57246
85946 22652 99034 25108 02192 18951 71644 11737 73678 54649
06283 40231 24452 79297 77527 87950 44268 47706 34200 09222
26793 52312 31018 67688 62146 35762 02560 89247 85725 10480
24969 58104 35913 68773 75408 15682 21538 26389 91132 16558

41286 17533 42729 58055 30169 68508 98625 12580 16362 89923
16182 83477 37038 06257 91129 13767 11978 42632 45908 71581
37344 04069 11259 88761 34363 89228 55552 16411 05907 66320
00300 51824 60615 50477 56188 84573 97210 33098 75387 24895
00934 54626 98505 37260 12224 07689 28345 20970 83440 21221
86503 13502 47182 41730 41467 66245 19854 90297 79545 82846
89334 52723 29006 22929 59716 72997 10155 94723 38964 93117
16696 77126 25236 26977 36509 60093 62098 78849 56915 55522
96780 15776 06546 00433 92302 94965 97061 36133 06204 34860
14110 39952 84639 73549 71631 04373 21118 22846 67129 04096
45476 48456 18729 73464 36959 21382 90679 20643 27716 75246
12710 06328 85636 66443 22703 48755 65231 59332 39248 73442
38744 17662 77096 21584 47947 50719 03919 79962 02438 08498
29148 90700 57899 54755 92625 48521 86678 83946 20730 80111
56291 04698 07511 83561 66586 89989 69219 88307 70675 65824
75089 56474

6984/5884/4784 kHz, 11-12, 1600/1620/1640 UTC

09403 00001 00000 34661

6984/5884/4784 kHz, 16-12, 1600/1620/1640 UTC

04563 00001 00000 35262

6984/5884/4784 kHz, 18-12/23-12, 1600/1620/1640 UTC

00653 00291 56017 48590 67382 87812 42976 99965 47835 22641
12379 37421 76794 34613 43118 67687 69717 23454 05730 04039
57114 67455 66344 35924 53669 65219 98651 45003 52526 32298
63348 22865 18519 38115 76315 26716 31538 09372 65411 08056
61212 89546 58844 19263 58420 33214 22747 16136 77886 68971
42565 91727 14919 24577 63440 34535 54134 36349 12587 72143
08760 75702 50121 42993 43716 65345 08246 69326 53805 47550
11728 00609 77256 97932 42514 11729 88146 65390 65134 12430
50597 04143 76288 94601 73104 95368 29656 66054 42764 78435
89665 86426 75169 06019 09338 50326 98689 59672 28580 16432
44584 14891 42381 44776 93343 69223 27003 79196 71243 88513
17275 01951 37181 47140 95724 89534 43757 60870 42860 05042
89769 04675 21923 28816 29475 08328 83372 44090 78876 31200
99819 28818 86018 05182 31159 84002 77234 49920 81237 15518
63200 94634 99073 16016 19331 82081 08765 88177 96181 82710
27993 39949 03498 65721 61570 74571 38438 63959 64048 42511
08891 77952 48705 07884 82267 60986 66030 48030 42824 47724
42138 95129 66302 88939 67285 31033 86704 46025 20212 96459
01543 03601 90765 66441 67539 10718 17376 18649 67988 16659
33282 75658 47930 58802 25507 38365 38035 84459 41314 87224
80215 88792 38524 42187 14249 04233 71657 09430 04079 01174
79722 86984 21829 77863 05306 12200 47632 57640 73324 73254
04562 71475 91079 78080 03756 14499 71539 51961 60644 10599
82198 85022 53129 69253 89235 21202 14791 46459 01405 60962
54108 41129 28122 57165 26634 53038 33623 36613 61067 17164
21023 05780 16213 65573 89262 43056 26203 15078 42685 93305
60028 17466 07101 50195 18740 48272 55383 10400 46121 65876
21486 44894 22225 49217 67365 91511 53787 93735 55379 27703
86815 77341 76558 65749 07022 63716 11207 79198 59177 04608
29069 98633 58757 61115

6984/5884/4784 kHz, 25-12, 1600/1620/1640 UTC

09609 00001 00000 40661

6984/5884/4784 kHz, 30-12, 1600/1620/1640 UTC

07332 00001 00000 33662

11493/13393/13993 kHz, 0800/0820/0840 UTC

11493/13393/13993 kHz, 04-12/06-12/11-12/13-12, 0800/0820/0840 UTC

09899 00125 68728 46176 24876 96176 85873 00557 63865 39867
93849 58843 31004 96504 81041 82801 63232 02620 11775 56122
98917 90411 22888 47026 50850 58629 75635 80783 34337 50932
81831 10835 89504 40170 43930 59382 59258 33797 43600 06621
59845 28261 78762 92377 45182 41588 09439 65156 67253 17876
06839 07112 37555 08304 52060 11146 38676 26394 52228 49987
19048 93172 87227 98502 29604 67651 43360 59087 23775 08295
72058 67226 14473 72737 60175 94229 84229 46489 98886 48699
88357 24744 02416 41889 27845 63349 79800 26021 05166 31251
36121 76281 10714 14621 10844 32059 78436 39008 40336 40420
95951 05091 46243 52371 67200 40311 86590 38225 28246 19269
47371 96843 53931 03601 60099 21947 84210 40675 97509 26680
05346 58295 64226 99698 27787 74535 98061 17414

11493/13393/13993 kHz, 18-12, 0800/0820/0840 UTC

01734 00001 00000 36654

11493/13393/13993 kHz, 20-12, 0800/0820/0840 UTC

08479 00001 00000 37667

11493/13393/13993 kHz, 25-12/27-12, 0800/0820/0840 UTC

00740 00095 09895 93173 11213 71308 58698 52496 18297 16037
82354 88530 30748 44081 91903 94929 70583 18997 12862 10333
86949 15639 74834 29446 28575 01056 59198 64174 80088 88455
86362 06015 53600 79112 59975 36119 33794 14896 20942 04969
11313 01620 10366 08277 58351 41570 26028 41534 59885 70395
81542 69919 60424 38724 75271 49892 38499 81480 75657 01188
48942 25974 12304 55141 94045 00763 27765 67415 59624 47559
54929 81730 80140 09177 41658 71876 65939 98794 23405 38630
99860 04562 30765 31680 39062 37023 01157 13992 01901 43870
30137 63584 03439 06269 07535 17745 91890 32215

13562/11583/10281 kHz, 0910/0930/0950 UTC

13562/11583/10281 kHz, 04-12, 0910/0930/0950 UTC

02243 00001 00000 33656

13562/11583/10281 kHz, 06-12, 0910/0930/0950 UTC

08220 00001 00000 32262

13562/11583/10281 kHz, 11-12/13-12/18-12, 0910/0930/0950 UTC

00651 00166 46058 26750 35679 24193 58526 07167 90943 58131
57604 24765 29670 08042 27314 69054 99782 59203 26377 50064
98260 01833 58279 79441 93388 94391 85496 42932 47697 00034
76493 83252 32679 18749 72694 06933 80027 66211 80659 93765
08542 35957 14694 27096 95281 60905 33011 66932 05215 06766
72309 42290 68262 14978 63590 73688 43608 41549 09891 70082
14707 85709 55674 17650 65338 17355 08525 18201 63265 83623
01135 84521 63808 82806 34516 82258 26659 77724 34484 83476
04807 11638 50789 97477 52127 75679 98396 72288 31544 23592
43458 59752 51391 34926 59931 91490 45792 35115 13297 75384
19624 79911 83493 17363 41404 72081 28678 17538 37742 60050
70335 56881 80209 31676 12555 84522 79922 65812 49432 81283
19004 54489 62273 46912 42822 80614 45672 40882 47895 43800
94382 23236 88799 27984 83042 84767 49482 09359 55987 18549
66650 10529 99793 67102 06750 04874 81999 04601 89914 49179
60034 18111 08712 06390 51695 05867 32044 84500 40792 73862
21890 28067 23528 40496 74841 09230 62415 51961 23572

13562/11583/10281 kHz, 25-12/27-12, 0910/0930/0950 UTC

00673 00088 76115 88190 90297 20706 25263 14643 63877 16320
94473 98512 12543 19366 03680 59521 27792 99437 03379 41937
11307 85605 80938 59562 43362 19803 26695 16727 23629 83095
99528 30239 51230 94907 44810 59701 67616 22602 51960 54447
96642 18815 31676 82665 10392 50205 14242 10026 52315 28419
94756 61384 73678 22376 00330 31311 14797 91653 98328 54218
26450 81760 04802 55332 90775 92573 22023 00699 51152 62759
88404 56935 84386 97831 90009 58015 67253 35595 01128 54350
32978 87469 66960 05408 74766 77399 04990 55024 92133 91454
22500

9281/10481/11481 kHz, 0600/0620/0640 UTC

9281/10481/11481 kHz, 05-12, 0600/0620/0640 UTC

08780 00001 00000 34670

9281/10481/11481 kHz, 07-12, 0600/0620/0640 UTC

09603 00001 00000 35661

9281/10481/11481 kHz, 12-12/14-12, 0600/0620/0640 UTC

02054 00077 20920 85509 39000 02479 92503 98322 79881 00862
34604 55148 31228 13246 36360 27950 99898 18817 07355 21164
07728 84487 69534 63258 77681 18669 74485 79033 90329 58473
83646 13224 23614 80995 19112 86031 94716 12176 23594 36245
60423 32105 51453 89767 12449 15338 28064 33987 76819 92672
69319 93799 26921 68806 09530 45285 41374 54511 00023 12179
66585 71121 82371 26560 96086 06826 94334 68826 61616 89497
00136 75967 92994 89843 41478 08874 87083 95782 49148 56220

9281/10481/11481 kHz, 19-12, 0600/0620/0640 UTC

02158 00001 00000 35657

9281/10481/11481 kHz, 21-12, 0600/0620/0640 UTC

01959 00001 00000 42256

9281/10481/11481 kHz, 26-12/28-12, 0600/0620/0640 UTC

00339 00109 00994 93772 03799 18762 93130 43058 11134 48620
01783 21625 82927 05237 48396 83340 27956 99981 37103 13268
53694 80432 22069 17804 49747 06865 96214 16745 02297 09390
81887 33782 16593 88611 34571 33878 04348 50892 14150 14685
08263 83316 82013 08993 02896 76495 52082 66923 20746 69527
65845 52905 31735 54691 30840 42745 51862 36712 35650 87582
11928 79590 42067 08472 11126 17533 49034 47832 46079 61863
55636 96361 62056 49496 31067 93903 25271 62228 00632 15401
77945 56806 14189 35789 81734 12664 45131 37704 06253 49157
38478 64535 87397 82385 68264 83696 75833 26656 11364 14040
69597 81976 95907 71279 19766 17804 68659 87370 74948 15077
82798 51433

8184/7684/6784 kHz, 1600/1620/1640 UTC

8184/7684/6784 kHz, 05-12/07-12, 1600/1620/1640 UTC

00546 00260 60863 71448 53363 36439 03511 67099 97758 83403
03939 67096 02124 53904 96476 92789 79520 71037 12723 32237
07914 17390 80644 42640 47975 60057 15302 59540 18002 15699
46117 15757 54830 62256 31922 37244 31829 59175 39093 54158
24736 26778 96497 59218 71042 07434 48886 75970 69837 15694
69270 80745 48585 67571 05224 39326 74623 43917 79460 16798
93816 93812 77445 44013 74880 15561 55339 58355 02994 02369
28453 89762 82232 78498 95769 03538 57618 22558 51724 19995
27443 68295 68987 55031 15742 82298 40506 35462 59432 32567
61516 19826 91531 61603 13834 86053 54494 72966 48986 73449

85278 94761 20634 46393 16402 87003 27838 99779 97596 93812
38270 77753 43009 93954 55095 48853 70345 29471 08911 79276
97443 26142 09192 99157 46192 52265 97458 77279 13653 31002
46960 39528 96781 69685 24012 45718 55721 33763 93506 10436
79194 99477 25421 85329 73140 93649 76941 31607 33440 66359
11645 59696 69842 76349 67907 04020 16527 52128 88556 92910
79482 01151 63974 69521 70753 16563 26262 71621 73180 99642
18877 54012 44876 38904 63781 50877 24322 36064 08930 93311
32582 67447 19775 48194 57764 35870 89916 72494 39170 87583
61478 83650 99311 75546 23176 60754 35810 73332 58341 45103
84410 98190 97396 66598 33702 77981 77443 84905 17159 58932
24899 24821 94183 46994 92165 57313 30504 85647 29688 80581
46004 03529 91926 36050 34461 14869 85946 19160 29557 94042
42009 57288 62536 59417 35908 07969 38934 32397 67361 40740
41808 94013 23878 96021 69014 01771 96278 22267 77100 27408
11804 16618 01283 69235 24181 90764 87779 00421 12781 44335
19652 16336 23500

8184/7684/6784 kHz, 12-12, 1600/1620/1640 UTC

03262 00001 00000 33261

8184/7684/6784 kHz, 14-12, 1600/1620/1640 UTC

05953 00001 00000 37262

8184/7684/6784 kHz, 19-12/21-12, 1600/1620/1640 UTC

00437 00188 23460 56648 43149 93214 32342 06235 14752 05760
93654 19395 63304 15249 07682 04909 79342 44236 30504 31719
08941 66464 43514 57433 78507 92022 73249 65071 00427 33771
34923 43708 51112 45707 71660 93870 22966 21287 17750 57340
12881 04744 17081 31460 44739 93776 20104 40287 22557 68899
36271 73291 86256 41257 25743 16598 65244 33922 13663 06827
57223 60907 13612 09300 63571 03138 59186 32622 53347 51838
05358 35743 20752 18700 83208 84868 90869 30048 81957 72221
82372 78013 26668 87597 95293 60024 42287 05038 48892 93571
02652 30353 31004 58527 24719 66941 94466 59603 45915 23020
16786 88224 11681 43557 43366 06681 65652 04137 90344 29249
69773 80238 09296 04528 05859 49541 40658 96768 55490 72344
72297 78652 95730 46459 48729 94718 02120 34529 39456 22367
45044 30895 32167 40874 77229 52408 90432 99507 48269 73851
00530 93787 29288 71122 03074 88911 71840 16842 42672 23689
60304 34947 20789 96137 42115 28901 49851 29098 21651 83816
60296 73454 93557 00791 97238 03606 23708 96937 38318 75778
67289 17143 34648 03136 80207 33215 56524 28496 72408 31834
43165 79376 27554 90477 74106 70186 93105 96646 06574 29079
71670

8184/7684/6784 kHz, 26-12, 1600/1620/1640 UTC

07451 00001 00000 33664

8184/7684/6784 kHz, 28-12, 1600/1620/1640 UTC

09582 00001 00000 34671

11579/10979/10279 kHz, 1100/1120/1140 UTC

11579/10979/10279 kHz, 06-12, 1100/1120/1140 UTC

01231 00001 00000 32654

11579/10979/10279 kHz, 07-12, 1100/1120/1140 UTC

03211 00001 00000 32654

11579/10979/10279 kHz, 13-12/14-12/20-12/21-12, 1100/1120/1140 UTC

00456 00154 56328 21450 20038 46391 89525 73660 17566 99893
73104 44911 10279 97627 09305 30926 49285 88109 15168 96824
77942 32182 69820 02490 89831 85988 07940 22860 58239 94918
94566 99525 09970 61058 98293 40015 02319 53301 59054 51073
39872 68056 71969 24187 20255 28325 39042 37065 55145 00253
61574 30210 03068 17316 67623 53483 22641 22122 78181 44557
18660 83763 65606 28453 09804 43780 51592 86292 84614 45739
25698 27450 99443 09729 61020 59817 12700 69476 64615 24402
22128 15435 67253 20410 91724 55152 15698 09642 48185 23468
82975 64868 51049 35846 12395 72674 89269 21183 38610 02829
50303 67988 35840 87293 71890 24017 64274 29795 89270 57652
10406 93892 12722 73180 77175 61207 19434 12385 60419 17592
58855 81634 37577 99789 08004 30682 15352 66835 23418 35698
43811 78890 72536 06161 77636 73031 40553 97697 46983 70849
33653 66204 07227 45895 94957 15542 76870 97039 52191 21235
62283 32801 05595 89697 38178 87915 33541

11579/10979/10279 kHz, 27-12/28-12, 1100/1120/1140 UTC

03746 00077 38050 18566 49158 65436 59046 35622 77210 55532
53815 71284 79744 44357 65679 48600 93931 25920 95475 07268
40616 30439 22211 47812 48569 89986 49508 68374 34029 03760
32456 40917 87235 55339 50127 10746 95995 72644 39460 26067
68533 12809 37410 31453 50944 06951 04587 66160 69194 54845
68228 45234 89794 72856 31850 89730 01788 79999 55751 52309
37671 90346 90084 03198 47730 36217 41660 65245 05530 70084
78124 14943 85936 40180 29938 90207 18576 35740 54270 21657

XPB1

20044 kHz, 01-12/05-12/08-12/12-12/15-12/19-12/22-12/26-12/28-12, 1300 UTC
19344 kHz, 01-12/05-12/08-12/12-12/15-12/19-12/22-12/26-12/28-12, 1310 UTC
18544 kHz, 01-12/05-12/08-12/12-12/15-12/19-12/22-12/26-12/28-12, 1320 UTC
17444 kHz, 01-12/05-12/08-12/12-12/15-12/19-12/22-12/26-12/28-12, 1330 UTC
16244 kHz, 01-12/05-12/08-12/12-12/15-12/19-12/22-12/26-12/28-12, 1340 UTC
14944 kHz, 01-12/05-12/08-12/12-12/15-12/19-12/22-12/26-12/28-12, 1350 UTC

14483 kHz, 02-12/04-12/09-12/11-12/16-12/18-12/23-12/25-12/30-12, 1100 UTC
13983 kHz, 02-12/04-12/09-12/11-12/16-12/18-12/23-12/25-12/30-12, 1110 UTC
13483 kHz, 02-12/04-12/09-12/11-12/16-12/18-12/23-12/25-12/30-12, 1120 UTC
12183 kHz, 02-12/04-12/09-12/11-12/16-12/18-12/23-12/25-12/30-12, 1130 UTC
11583 kHz, 02-12/04-12/09-12/11-12/16-12/18-12/23-12/25-12/30-12, 1140 UTC
10983 kHz, 02-12/04-12/09-12/11-12/16-12/18-12/23-12/25-12/30-12, 1150 UTC

14978 kHz, 02-12/06-12/09-12/13-12/16-12/20-12/23-12/27-12/30-12, 1200 UTC
13978 kHz, 02-12/06-12/09-12/13-12/16-12/20-12/23-12/27-12/30-12, 1210 UTC
13378 kHz, 02-12/06-12/09-12/13-12/16-12/20-12/23-12/27-12/30-12, 1220 UTC
12178 kHz, 02-12/06-12/09-12/13-12/16-12/20-12/23-12/27-12/30-12, 1230 UTC
11078 kHz, 02-12/06-12/09-12/13-12/16-12/20-12/23-12/27-12/30-12, 1240 UTC
10278 kHz, 02-12/06-12/09-12/13-12/16-12/20-12/23-12/27-12/30-12, 1250 UTC

13919 kHz, 04-12/05-12/11-12/12-12/18-12/19-12/25-12/26-12 0600 UTC
13419 kHz, 04-12/05-12/11-12/12-12/18-12/19-12/25-12/26-12 0610 UTC
13919 kHz, 04-12/05-12/11-12/12-12/18-12/19-12/25-12/26-12 0620 UTC
14418 kHz, 04-12/05-12/11-12/12-12/18-12/19-12/25-12/26-12 0630 UTC
14918 kHz, 04-12/05-12/11-12/12-12/18-12/19-12/25-12/26-12 0640 UTC
15918 kHz, 04-12/05-12/11-12/12-12/18-12/19-12/25-12/26-12 0650 UTC



Hagelin HC530

DIPLOMATIC STATIONS

Diplomatic stations: Bulgaria

17440 kHz, 06-12, 1326 UTC, RFSM
 13365 kHz, 06-12, 1333 UTC, RFSM
 18455 kHz, 06-12, 1355 UTC, RFSM
 17440 kHz, 07-12, 1312 UTC, RFSM
 13365 kHz, 07-12, 1328 UTC, RFSM
 18455 kHz, 07-12, 1357 UTC, RFSM
 18455 kHz, 08-12, 1215 UTC, RFSM
 17440 kHz, 08-12, 1328 UTC, RFSM
 13365 kHz, 08-12, 1327 UTC, RFSM
 17440 kHz, 13-12, 1325 UTC, RFSM
 13365 kHz, 13-12, 1326 UTC, RFSM
 18455 kHz, 13-12, 1358 UTC, RFSM
 17440 kHz, 14-12, 1324 UTC, RFSM
 13365 kHz, 14-12, 1328 UTC, RFSM
 18455 kHz, 14-12, 1358 UTC, RFSM
 18455 kHz, 15-12, 1221 UTC, RFSM
 17440 kHz, 15-12, 1328 UTC, RFSM
 13365 kHz, 15-12, 1328 UTC, RFSM
 17440 kHz, 19-12, 1325 UTC, RFSM
 13365 kHz, 19-12, 1312 UTC, RFSM
 18455 kHz, 19-12, 1358 UTC, RFSM
 13365 kHz, 21-12, 0920 UTC, RFSM

MFA Sofia wkg unid embassy on 13365 kHz
 Unid Bulgarian embassy wkg MFA Sofia on 17440 kHz
 MFA Sofia wkg unid embassy
 MFA Sofia wkg unid embassy
 Unid Bulgarian embassy
 MFA Sofia wkg unid embassy
 Bulgarian diplo i.p.
 MFA Sofia wkg unid embassy
 Unid Bulgarian embassy wkg MFA Sofia
 MFA Sofia wkg unid embassy on 13365 kHz
 Unid Bulgarian embassy wkg MFA Sofia on 17440 kHz
 MFA Sofia wkg unid embassy
 MFA Sofia wkg unid embassy on 13365 kHz
 Unid Bulgarian embassy on 17440 kHz
 MFA Sofia wkg unid embassy
 MFA Sofia traffic
 MFA Sofia wkg unid embassy
 Unid Bulgarian embassy wkg MFA Sofia
 MFA Sofia traffic
 Bulgarian diplo traffic
 MFA Sofia traffic
 MFA Sofia wkg unid embassy

17440 kHz, 21-12, 1326 UTC, RFSM
18455 kHz, 21-12, 1356 UTC, RFSM
18515 kHz, 22-12, 0945 UTC, RFSM

MFA Sofia wkg unid embassy
MFA Sofia wkg unid embassy
Bulgarian diplo

Diplomatic stations: Egypt

16223.7 kHz, 17-12, 0813 UTC, SITOR-A 100/170 MFA Cairo traffic. Ended with HUXD +? YKS YKS
17445.7 kHz, 20-12, 1231 UTC, SITOR-A 100/170 MFA Cairo clg OOV: Egyptian embassy Islamabad
17444 kHz, 20-12, 1231 UTC, CODAN 99901: MFA Cairo wkg 44405: Egyptian embassy Islamabad
16223.7 kHz, 31-12, 0752 UTC, SITOR-A 100/170 Egyptian diplo i.p. Ended with ZKE KDDR

Diplomatic stations: North Korea

Mode: DPRK-ARQ 600 LSB

11045 kHz, 01-12, 0640 UTC
14400 kHz, 02-12, 0813 UTC. QSX 14600 kHz
14600 kHz, 02-12, 0813 UTC. QSX 14400 kHz
14444 kHz, 05-12, 0650 UTC
13400 kHz, 06-12, 0630 UTC. QSX 16252 kHz
16252 kHz, 06-12, 0630 UTC. QSX 13400 kHz
13000 kHz, 06-12, 0738 UTC
16252 kHz, 06-12, 1257 UTC
14444 kHz, 08-12, 1328 UTC
14600 kHz, 19-12, 0813 UTC
14444 kHz, 25-12, 0757 UTC

Diplomatic stations: Russia

16304 kHz, 01-12, 1013 UTC, Serdolik v2 Russian diplo. Selcal
16226 kHz, 01-12, 1018 UTC, OFDM-112 Russian diplo
14824 kHz, 01-12, 1021 UTC, MFSK-6 MFA Moscow clg 625413: Russian embassy Tel Aviv
16302 kHz, 01-12, 1029 UTC, Serdolik v2 Russian diplo
16226 kHz, 01-12, 1034 UTC, OFDM-112 Russian diplo
16302 kHz, 01-12, 1036 UTC, Serdolik v2 Russian diplo
13395 kHz, 04-12, 0904 UTC, MFSK-6 MFA Moscow clg 532614: Russian embassy Paris
14825 kHz, 04-12, 0929 UTC, MFSK-6 MFA Moscow clg 641523: Russian embassy Lusaka
18750 kHz, 04-12, 0933 UTC, MFSK-6 MFA Moscow clg 641523: Russian embassy Lusaka
13424 kHz, 05-12, 0921 UTC, MFSK-66 Russian diplo
13401 kHz, 05-12, 0944 UTC, MFSK-6 MFA Moscow clg 154263: Russian embassy Rome
14650 kHz, 06-12, 1117 UTC, Serdolik v2 Russian diplo
16115 kHz, 06-12, 1128 UTC, MFSK-6 MFA Moscow clg 215346: Russian Consulate General Mumbai
14650 kHz, 06-12, 1139 UTC, MFSK-6 MFA Moscow clg 215346: Russian Consulate General Mumbai
14447 kHz, 07-12, 0820 UTC, MFSK-6 MFA Moscow clg 162543: Russian embassy Nicosia
16026 kHz, 07-12, 0828 UTC, Serdolik v2 Russian diplo
16028 kHz, 07-12, 0834 UTC, Serdolik v2 Russian diplo. Selcal
17519 kHz, 07-12, 0826 UTC, Serdolik v2 Russian diplo
16103 kHz, 07-12, 0931 UTC, MFSK-6 MFA Moscow clg 645321: Russian embassy Ho Chi Minh City
18197 kHz, 07-12, 0938 UTC, MFSK-66 Russian diplo
13405 kHz, 08-12, 0803 UTC, MFSK-6 MFA Moscow clg 352416: Russian embassy Dar es Salaam
12195 kHz, 08-12, 0835 UTC, MFSK-66 Russian diplo
13377 kHz, 08-12, 0840 UTC, MFSK-6 MFA Moscow clg 615243: Russian Permanent Mission to the UN, Geneva
14441 kHz, 10-12, 1022 UTC, OFDM-45 Russian diplo
15810 kHz, 10-12, 1047 UTC, MFSK-6 MFA Moscow clg 145632: Russian embassy Algiers
15918 kHz, 10-12, 1050 UTC, MFSK-6 MFA Moscow clg 145632: Russian embassy Algiers
20690 kHz, 11-12, 0816 UTC, MFSK-6 MFA Moscow clg 156234: Russian embassy Kampala (brief false start)
17475 kHz, 11-12, 0828 UTC, MFSK-6 MFA Moscow clg 156234: Russian embassy Kampala
16117 kHz, 11-12, 0931 UTC, MFSK-6 MFA Moscow clg 463125: Russian embassy Rabat
14686 kHz, 11-12, 0946 UTC, Serdolik v2 Russian diplo
14861 kHz, 12-12, 0840 UTC, MFSK-6 MFA Moscow clg 542136: Russian embassy Beijing
17523 kHz, 12-12, 0844 UTC, MFSK-6 MFA Moscow clg 542136: Russian embassy Beijing
17470 kHz, 12-12, 1034 UTC, MFSK-6 MFA Moscow clg 216354: Russian Consulate General Chennai

18177 kHz, 13-12, 0753 UTC, MFSK-6	MFA Moscow clg 164253: Russian embassy Addis Ababa
11071 kHz, 13-12, 1425 UTC, Serdolik v2	Russian diplo
10860 kHz, 14-12, 1049 UTC, MFSK-66	Russian diplo
14826 kHz, 15-12, 0815 UTC, Serdolik v2	Russian diplo. Selcal
14828 kHz, 15-12, 0817 UTC, Serdolik v2	Russian diplo
13954 kHz, 15-12, 0832 UTC, MFSK-6	MFA Moscow clg 213546: Russian embassy Islamabad
14828 kHz, 15-12, 0839 UTC, Serdolik v2	Russian diplo
14947 kHz, 21-12, 0800 UTC, MFSK-6	MFA Moscow clg 351264: Russian embassy Abu Dhabi
17534 kHz, 21-12, 0805 UTC, MFSK-6	MFA Moscow clg 351264: Russian embassy Abu Dhabi
18197 kHz, 21-12, 0921 UTC, MFSK-6	MFA Moscow clg 645321: Russian Consulate General Ho Chi Minh City
14947 kHz, 21-12, 0923 UTC, MFSK-6	MFA Moscow clg 351264: Russian embassy Abu Dhabi
16315 kHz, 21-12, 0729 UTC, Serdolik v2	Russian diplo. Selcal
16315 kHz, 21-12, 0732 UTC, Serdolik v2	Russian diplo. Selcal
16315 kHz, 21-12, 0736 UTC, Serdolik v2	Russian diplo. Selcal
16315 kHz, 21-12, 0739 UTC, Serdolik v2	Russian diplo. Selcal
16315 kHz, 21-12, 0740 UTC, Serdolik v2	Russian diplo. Selcal
16315 kHz, 21-12, 0744 UTC, Serdolik v2	Russian diplo. Selcal
16028 kHz, 21-12, 0743 UTC, Serdolik v2	Russian diplo. Selcal
16028 kHz, 21-12, 0746 UTC, Serdolik v2	Russian diplo. Selcal
16028 kHz, 21-12, 0753 UTC, Serdolik v2	Russian diplo. Selcal
16026 kHz, 21-12, 0758 UTC, Serdolik v2	Russian diplo. Test
16026 kHz, 21-12, 0819 UTC, Serdolik v2	Russian diplo. Test
16026 kHz, 21-12, 0838 UTC, Serdolik v2	Russian diplo. Test
16028 kHz, 21-12, 0842 UTC, Serdolik v2	Russian diplo. Selcal
16026 kHz, 21-12, 0844 UTC, Serdolik v2	Russian diplo. Test
16026 kHz, 21-12, 0849 UTC, Serdolik v2	Russian diplo. Test
16028 kHz, 21-12, 0853 UTC, Serdolik v2	Russian diplo. Selcal
16026 kHz, 21-12, 0857 UTC, Serdolik v2	Russian diplo. Test
16028 kHz, 21-12, 0910 UTC, Serdolik v2	Russian diplo. Selcal
16028 kHz, 21-12, 0913 UTC, Serdolik v2	Russian diplo. Selcal
16028 kHz, 21-12, 0917 UTC, Serdolik v2	Russian diplo. Selcal
16028 kHz, 21-12, 0920 UTC, Serdolik v2	Russian diplo. Selcal
16315 kHz, 21-12, 0822 UTC, Serdolik v2	Russian diplo. Selcal
16313 kHz, 21-12, 0824 UTC, Serdolik v2	Russian diplo. Test
16313 kHz, 21-12, 0831 UTC, Serdolik v2	Russian diplo
16313 kHz, 21-12, 0838 UTC, Serdolik v2	Russian diplo
16315 kHz, 21-12, 0845 UTC, Serdolik v2	Russian diplo. Selcal
16313 kHz, 21-12, 0847 UTC, Serdolik v2	Russian diplo
16315 kHz, 21-12, 0852 UTC, Serdolik v2	Russian diplo. Selcal
16313 kHz, 21-12, 0855 UTC, Serdolik v2	Russian diplo. Test
16315 kHz, 21-12, 0900 UTC, Serdolik v2	Russian diplo. Selcal
16313 kHz, 21-12, 0903 UTC, Serdolik v2	Russian diplo
16315 kHz, 21-12, 0908 UTC, Serdolik v2	Russian diplo. Selcal
17519 kHz, 21-12, 0820 UTC, Serdolik v2	Russian diplo. Test
17519 kHz, 21-12, 0839 UTC, Serdolik v2	Russian diplo. Selcal
17519 kHz, 21-12, 0845 UTC, Serdolik v2	Russian diplo. Test
17519 kHz, 21-12, 0849 UTC, Serdolik v2	Russian diplo. Test
17521 kHz, 21-12, 0854 UTC, Serdolik v2	Russian diplo. Selcal
17519 kHz, 21-12, 0857 UTC, Serdolik v2	Russian diplo. Test
17519 kHz, 21-12, 0902 UTC, Serdolik v2	Russian diplo. Test
17521 kHz, 21-12, 0911 UTC, Serdolik v2	Russian diplo. Selcal
17521 kHz, 21-12, 0914 UTC, Serdolik v2	Russian diplo. Selcal
17521 kHz, 21-12, 0918 UTC, Serdolik v2	Russian diplo. Selcal
18230 kHz, 21-12, 0857 UTC, Serdolik v2	Russian diplo. Test
18230 kHz, 21-12, 0909 UTC, Serdolik v2	Russian diplo
20627 kHz, 21-12, 1333 UTC, MFSK-6	MFA Moscow clg 436512: Russian embassy Harare
13422 kHz, 21-12, 1335 UTC, Serdolik v2	Russian diplo. Selcal
13422 kHz, 21-12, 1338 UTC, Serdolik v2	Russian diplo. Selcal
13422 kHz, 21-12, 1341 UTC, Serdolik v2	Russian diplo. Selcal
13422 kHz, 21-12, 1345 UTC, Serdolik v2	Russian diplo. Selcal
13420 kHz, 21-12, 1346 UTC, Serdolik v2	Russian diplo
13420 kHz, 21-12, 1418 UTC, Serdolik v2	Russian diplo
13420 kHz, 21-12, 1420 UTC, Serdolik v2	Russian diplo

13420 kHz, 21-12, 1422 UTC, Serdolik v2	Russian diplo
13376 kHz, 21-12, 1420 UTC, Serdolik v2	Russian diplo. Selcal
13376 kHz, 21-12, 1423 UTC, Serdolik v2	Russian diplo. Selcal
13376 kHz, 21-12, 1427 UTC, Serdolik v2	Russian diplo. Selcal
13376 kHz, 21-12, 1430 UTC, Serdolik v2	Russian diplo. Selcal
10255 kHz, 21-12, 1432 UTC, MFSK-6	MFA Moscow clg 351264: Russian embassy Abu Dhabi
13420 kHz, 26-12, 0802 UTC, MFSK-6	MFA Moscow clg 534216: Russian embassy Baghdad
14861 kHz, 26-12, 0812 UTC, MFSK-6	MFA Moscow clg 534216: Russian embassy Beijing
17520 kHz, 26-12, 1006 UTC, MFSK-6	MFA Moscow clg 534216: Russian embassy Ashgabat
17470 kHz, 26-12, 1108 UTC, MFSK-6	MFA Moscow clg 216354: Russian Consulate General Chennai

Diplomatic stations: Tunisia

8088 kHz, 08-12, 0804 UTC, Mil-STD-188-141A/USB

STAT151: MFA Tunis clg STAT6

14857 kHz, 15-12, 0832 UTC, Mil-STD-188-141A/USB

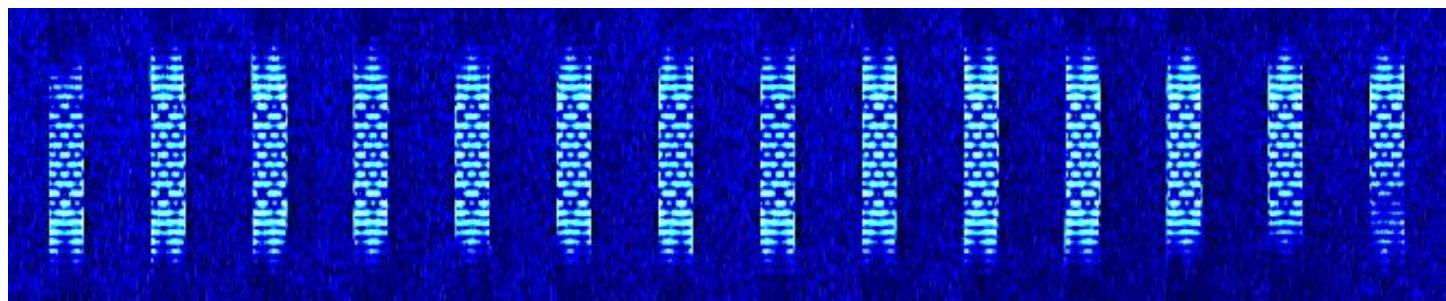
STAT152: MFA Tunis clg STAT14

UTILITY ROUND-UP

Unid stations

New buzzer

16730 kHz, 05-12, 0641 UTC
 7502 kHz, 12-12, 1416 UTC
 20730 kHz, 29-12, 1055 UTC
 19730 kHz, 29-12, 1055 UTC
 18730 kHz, 29-12, 1055 UTC
 20730 kHz, 29-12, 1107 UTC
 19730 kHz, 29-12, 1107 UTC
 18730 kHz, 29-12, 1107 UTC
 6725 kHz, 30-12, 1552 UTC
 5852 kHz, 30-12, 1552 UTC
 5824 kHz, 30-12, 1552 UTC
 7550 kHz, 30-12, 1809 UTC
 6365 kHz, 30-12, 1809 UTC
 5050 kHz, 30-12, 1809 UTC
 5852 kHz, 31-12, 1518 UTC
 5824 kHz, 31-12, 1518 UTC
 5802 kHz, 31-12, 1518 UTC



MFSK-13

8055 kHz, 20-12, 1312 UTC
 16138 kHz, 21-12, 0802 UTC
 16138 kHz, 21-12, 0849 UTC

Unid station

6853 kHz, 20-12, 1319 UTC, CW, i.p.
 RNIZ TAGB
 VV 0967 0967 DE FYOK K

NEW STATION: M23 variant?

It's just a wild guess but this new found morse station might be connected to M23. Amongst the last noted M23 transmissions were IDs **TUO**, **RTS** and **XKO**. The new station sends, after the format change, **XKOCE**, **RTSMA** and **TUORS**. A coincidence???

17430 kHz, 05-12, 1026 UTC, i.p.

UNTXZ OHPFD ELKFR FYMBP SYFLB AOCPE USMML WMBJH WNFKG FNYÄE
RDSUY OCUPZ DVXKC DGEW W BFU HPPRH C6GRF REOYF CHVKB YNCAZ
VFPEN

= = = = =

YBDSJ YDHFT BBRMB FUQEL BGQGQ URBEL OUHPD HNQTZ OSSRU LQHYY
CVRUR KLHNP DCAST JBOHD TFKLL AXVTR GSNMM FSZ REQBT XZZRC
SNEJI XDZVI RTLGA ITHJJ ANOVX ILEGZ XNTXZ OHPFD ELKFR MBPTS
WRTBD AOCPE ASMML WRBJH WNFKG FNYWD FDSIY OCUPZ DVXKC DGJQS
BFU HPPRS CGRFR EOYKD YNCAZ VFPEN

= = = = =

WBG SJ YDHFT BBRMB FUQEL BGQGQ URBEL OUHPD HNQTZ OSSRU LQHYY
CVRUO FKLNL UUBLI DCASY BOGHD TFKLL AXVTR GSNMM FSZ RVKBT
XZZRN SNE2I XDZVI RTRCA IBRHJ BNOVX ILEGZ SNTXZ OHPFD ELKFR
FYMBP SYFDD AOCPE ASMML WMBJH WNFKG ENYWD FDSUY OCUPZ DVXKC
DGJQV SFU HPPRS CBGRF REOYF CHVJD YNCAZ VFPEN FAFEI RTÜFG
TEKEO ISEEP

17432 kHz, 06-12, 1136 UTC. Loop transmission moved to 18412kHz at 1401z

18412 kHz, 06-12, 1401 UTC. Loop transmission

= = = = =

YBGSJ YDHFT BBRMB FUQEL BGQGQ URBEL OUHPD HNQTZ OSSRU LQHYY
CVRUO FKLNP UUBLI DCAST JBOHD TFKLL AXVTR GSNMM FSZ REQBT
XZZRC SNEJI XDZVI RTRGA IBHJJ ANOVX ILEGZ XNTXZ OHPFD ELKFR
FYMBP SYFDD AOCPE ASMML WMBJH WNFKG FNYWD FDSUY OCUPZ DVXKC
DGJQH BFU HPPRS CBGRF REOYF CHVKD YNCAZ VFPEN

=====

17432 kHz, 07-12, 1026 UTC. Started abruptly in the middle of message. Loop transmission

18412 kHz, 07-12, 1235 UTC. Loop transmission

=====

57 57 57 57

TORBY YUHG Y UOETT QXJSW BIBOP HHPYS YZXXS BHQTA APMXT XPTM
KEAMU EZNEZ CMOVP LLET C EGDEQ ENEDQ CZQFN PRNWN KJGGM GNGQW
PGDXZ OQIHU GCVSO LJSSK WTZEJ VZZPW SAKWV BMRGF DNUCB OFUMA
LIKSA SAOAT JJUMY NHODC UOLXF FYCUI ABBVV GCNXX FJNUO GGMSG
JNUUZ CACLG SPNNO PSLEI BFPP I RJLVD AANGM KENND QUXRG XBJPI
XQTVM MKXWA GEGZR UTSAS RVPEQ BDB TTHRP

=====

17432 kHz, 08-12, 1026 UTC, . Loop transmission. Repeat of Dec 7th.

RJLVD AANGM KENND QUXRG XBJPI XQTVM MKXWA GEGZR UTSAS RVPEQ
BDB TTHRP

=====

57 57 57 57

TORBY YUHG Y UOETT QXJSW BIBOP HHPYS YZXXS BHQTA APMXT XPTM
KEAMU EZNEZ CMOVP LLET C EGDEQ ENEDQ CZQFN PRNWN KJGGM GNGQW
PGDXZ OQIHU GCVSO LJSSK WTZEJ VZZPW SAKWV BMRGF DNUCB OFUMA
LIKSA SAOAT JJUMY NHODC UOLXF FYCUI ABBVV GCNXX FJNUO GGMSG
JNUUZ CACLG SPNNO PSLEI BFPP I RJLVD AANGM KENND QUXRG XBJPI
XQTVM MKXWA GEGZR UTSAS RVPEQ BDB TTHRP

=====

57 57 57 57

17432 kHz, 08-12, 1052 UTC. Changed to new format at 1052z.

55555 (2min 30sec)
XKOCE BDTOP UKEMO XKOCE RTSMA TUORS
55555 (R2min 30sec)
BDTOP TUORS RTSMA TUORS TUORS BDTOP
11111 (R4min)
TUORS XKOCE XKOCE XKOCE UKEMO UKEMO
11111 (R8min)
RTSMA UKEMO BDTOP UKEMO RTSMA XKOCE

55555 (R2min 30sec)
RTSMA XKOCE RTSMA TUORS UKEMO RTSMA
22222 (numbers continue 3min 30sec)
TUORS TUORS BDTOP TUORS UKEMO UKEMO
55555 (R2min 30sec)
UKEMO UKEMO XKOCE UKEMO XKOCE RTSMA
55555 (R2min 30sec)
UKEMO BDTOP RTSMA TUORS BDTOP TUORS
00000 (numbers continue 4min 20sec)
XKOCE RTSMA XKOCE BDTOP RTSMA XKOCE
00000 (R4min 20sec)
RTSMA RTSMA XKOCE UKEMO XKOCE XKOCE
55555 (R2min 25sec)
XKOCE XKOCE XKOCE BDTOP RTSMA UKEMO
11111 (R4min)
RTSMA XKOCE TUORS TUORS UKEMO RTSMA
11111 (R4min)
XKOCE TUORS UKEMO RTSMA XKOCE RTSMA
11111 (R4min)
UKEMO BDTOP UKEMO XKOCE TUORS RTSMA
00000 (R4min 20sec)
TUORS RTSMA UKEMO BDTOP BDTOP TUORS
00000 (Repeated till the transmission ended)

18412 kHz, 07-12, 1202 UTC, i.p.

00000 00000 00000 00000 00000
RTSMA UKEMO BDTOP TUORS BDTOP BDTOP
55555 (R2min 30sec)
RTSMA RTSMA XKOCE RTSMA UKEMO UKEMO
22222 (R3min 30sec)
UKEMO TUORS UKEMO UKEMO XKOCE UKEMO
11111 (R4min)
BDTOP RTSMA XKOCE RTSMA BDTOP BDTOP
22222 (R3min 30sec)
TUORS BDTOP UKEMO XKOCE RTSMA UKEMO
22222 (R3min 30sec)
RTSMA TUORS RTSMA XKOCE RTSMA BDTOP
00000 (R4min 20sec))
RTSMA RTSMA RTSMA XKOCE BDTOP XKOCE
22222 (R3min 30sec)
UKEMO XKOCE XKOCE TUORS UKEMO XKOCE
22222 (R3min 30sec)
XKOCE XKOCE UKEMO XKOCE XKOCE TUORS
11111 (R4min)
UKEMO TUORS UKEMO TUORS XKOCE BDTOP
00000 (R4min 20sec))
BDTOP RTSMA XKOCE TUORS BDTOP TUORS
00000 (R4min 20sec))
TUORS TUORS XKOCE RTSMA BDTOP BDTOP
11111 (R4min)
XKOCE BDTOP UKEMO RTSMA TUORS BDTOP
00000 (R4min 20sec))
TUORS BDTOP XKOCE UKEMO RTSMA TUORS
22222 (R3min 30sec)
UKEMO XKOCE TUORS BDTOP BDTOP UKEMO
55555 (R2min 30sec)
XKOCE UKEMO UKEMO TUORS TUORS TUORS
00000 (R4min 20sec))
XKOCE TUORS RTSMA RTSMA XKOCE BDTOP
00000 (R4min 20sec))
RTSMA TUORS RTSMA RTSMA UKEMO RTSMA
00000 (R4min 20sec))
UKEMO XKOCE RTSMA UKEMO RTSMA BDTOP

00000 (R4min 20sec)
XKOCE UKEMO TUORS XKOCE TUORS XKOCE
11111 (R4min)
BDTOP RTSMA UKEMO BDTOP BDTOP BDTOP
55555 (R2min 30sec)
XKOCE XKOCE RTSMA UKEMO UKEMO BDTOP
11111 (R4min)
TUORS RTSMA TUORS XKOCE XKOCE UKEMO
55555 (R2min 30sec)
XKOCE TUORS XKOCE BDTOP UKEMO BDTOP
11111 (R4min)
XKOCE XKOCE BDTOP BDTOP TUORS BDTOP
00000 (R4min 20sec)
XKOCE RTSMA XKOCE UKEMO BDTOP BDTOP
55555 (R2min 30sec)
XKOCE XKOCE UKEMO UKEMO UKEMO UKEMO
22222 (R3min 30sec)
RTSMA XKOCE BDTOP TUORS XKOCE BDTOP
00000 00000 00000 00000 00000 (Repeated until abrupt end of transmission at 1400z)

17432 kHz, 09-12, 1036 UTC, i.p.

11111 (R)
XKOCE XKOCE TUORS BDTOP UKEMO XKOCE
11111 (R)
UKEMO BDTOP RTSMA UKEMO XKOCE TUORS
55555 (R)
00000 (R)
RTSMA RDEAP BDTOP XKOCE UKEMO XKOCE
11111 (R)

5182 kHz, 11-12, 1637 UTC, i.p.

99999 (R)
TUORS BDTOP BDTOP RTSMA UKEMO TUORS
00000 (x20)
XKOCE TUORS BDTOP UKEMO XKOCE RTSMA
22222 (x20)
XKOCE UKEMO XKOCE TUORS UKEMO UKEMO
55555 (x20)
TUORS XKOCE BDTOP BDTOP RTSMA XKOCE
99999 (x20)
BDTOP TUORS TUORS TUORS XKOCE UKEMO
88888 (x20)
TUORS XKOCE XKOCE TUORS RTSMA TUORS
33333 (x20)

5182 kHz, 11-12, 2010 UTC, i.p.

11111 (x20)
TUORS BDTOP XKOCE TUORS UKEMO TUORS
44444 (x20)
UKEMO TUORS RTSMA BDTOP BDTOP TUORS
99999 (x20)
TUORS XKOCE RTSMA RTSMA BDTOP BDTOP
99999 (x20)
UKEMO TUORS XKOCE UKEMO XKOCE UKEMO
44444 (x20)
BDTOP UKEMO TUORS RTSMA XTOCE BDTOP
99999 (x20)
XKOCE XKOCE TUORS XKOCE BDTOP UKEMO
66666 (x20)
UKEMO RTSMA RTSMA XKOCE TUORS BDTOP
88888 (x20)

5182 kHz, 12-12, 0623 UTC, i.p.

44444 (x20)
BDTOP UKEMO RTSMA XKOCE XKOCE TUORS
11111 (x20)
TUORS UKEMO XKOCE BDTOP TUORS BDTOP
44444 (x20)
BDTOP TUORS XKOCE XKOCE TUORS UKEMO
44444 (x11) off

17432 kHz, 09-12, 1000 UTC, . Moved to 18412 kHz at 1159z

BDTOP RTSMA TUORS UKEMO XKOCE separated by repeated numbers 0, 1, 2, and 5

18412 kHz, 09-12, 1201 UTC, . Ended at 1400z

BDTOP RTSMA TUORS UKEMO XKOCE separated by repeated numbers 0, 1, 2, and 5

17432 kHz, 10-12, 1000 UTC, . Ended at 1230z

BDTOP RTSMA TUORS UKEMO XKOCE separated by repeated numbers 0, 1, 2, and 5

17432 kHz, 10-12, 1230 UTC, . Ended at 1358z

BDTOP RTSMA TUORS UKEMO XKOCE separated by repeated numbers 0, 1, 2, 3, 5, 6, 7, 8, and 9

7542 kHz, 11-12, 0415 UTC, . Ended at 0618z

BDTOP RTSMA TUORS UKEMO XKOCE separated by repeated numbers 0, 1, 2, 3, 5, 6, 7, 8, and 9

17432 kHz, 11-12, 1042UTC, . Moved to 18412 kHz at 1200z

BDTOP RTSMA TUORS UKEMO XKOCE separated by repeated numbers 0, 1, 2, 3, 5, 6, 7, 8, and 9

18412 kHz, 11-12, 1200 UTC,

BDTOP RTSMA TUORS UKEMO XKOCE separated by repeated numbers 0, 1, 2, 3, 5, 6, 7, 8, and 9

7542 kHz, 14-12, 0355 UTC,

BDTOP RTSMA TUORS UKEMO XKOCE separated by repeated numbers 0, 1, 2, 3, 5, 6, 7, 8, and 9

10916 UTC, 14-12, 1155 UTC,

TUORS BDTOP TUORS BDTOP BDTOP

44444 (R20)

RTSMA UKEMO XKOCE RTSMA XKOCE UKEMO

99999 (R20)

UKEMO TUORS RTSMA TUORS TRSMA TUORS

33333 (R20)

10916 14-12-2023 1053 UTC

BDTOP RTSMA TUORS UKEMO XKOCE separated by numbers groups

10916 kHz, 15-12, 0730 UTC

BDTOP RTSMA TUORS UKEMO XKOCE separated by numbers groups

17432 kHz, 15-12, 1104 UTC. Moved to 18412 kHz at 1304z

BDTOP RTSMA TUORS UKEMO XKOCE separated by numbers groups

14442 kHz, 15-12, 1200 UTC,

i.p. 99999 (x20) BDTOP TUORS(R3) XKOCE UKEMO 88888 (x20) TUORS off

18412 kHz, 15-12, 1304 UTC

BDTOP RTSMA TUORS UKEMO XKOCE separated by numbers groups

14400 kHz, 15-12, 1523 UTC

BDTOP RTSMA TUORS UKEMO XKOCE separated by numbers groups

17432 kHz, 16-12, 1117 UTC. Moved to 18412 kHz at 1304z

BDTOP RTSMA TUORS UKEMO XKOCE separated by numbers groups i.p.

18412 kHz, 16-12, 1304 UTC . Moved to 14400 kHz at 1504z

BDTOP RTSMA TUORS UKEMO XKOCE separated by numbers groups

14400 kHz, 16-12, 1504 UTC. Ended at 1630z

BDTOP RTSMA TUORS UKEMO XKOCE separated by numbers groups

4951 kHz, 17-12, 0518 UTC

BDTOP RTSMA TUORS UKEMO XKOCE separated by numbers groups i.p.

14442 kHz, 17-12, 1036 UTC

BDTOP RTSMA TUORS UKEMO XKOCE separated by numbers groups i.p.

17432 kHz, 17-12, 1125 UTC

BDTOP RTSMA TUORS UKEMO XKOCE separated by numbers groups i.p.

18412 kHz, 17-12, 1307 UTC

BDTOP RTSMA TUORS UKEMO XKOCE separated by numbers groups i.p.

5873 kHz, 18-12, 0350 UTC. Ended at 0504z

BDTOP RTSMA TUORS UKEMO XKOCE separated by numbers groups i.p.

14442 kHz, 18-12, 0945 UTC. Moved to 17432 kHz at 1104z

BDTOP RTSMA TUORS UKEMO XKOCE separated by numbers groups i.p.

17432 kHz, 18-12, 1104 UTC. Moved to 18412 kHz at 1304z)

BDTOP RTSMA TUORS UKEMO XKOCE separated by numbers groups

18412 kHz, 18-12, 1304 UTC. Ended at 1442z

BDTOP RTSMA TUORS UKEMO XKOCE separated by numbers groups

10300 kHz, 18-12, 1625 UTC

BDTOP RTSMA TUORS UKEMO XKOCE separated by numbers groups i.p.

14442 kHz, 20-12, 1010 UTC, i.p.

22222 (R20)

BDTOP RTSMA TUORS RTSMA BDTOP RKEMO

55555 (R20)

TUORS RTSMA UKEMO RTSMA BDTOP RTSMA

22222 (R20)

RTSMA XKOCE RTSMA XKOCE TUORS XKOCE

55555 (R20)

TUORS XKOCE XKOCE RTSMA TUORS RTSMA

11111 (R20)

TUORS BDTOP RTSMA BDTOP RTSMA UKEMO

00000 (R20)

XKOCE TUORS TUORS XKOCE TUORS TUORS

22222 (R20)

BDTOP RTSMA UKEMO TUORS TUORS BDTOP

11111 (R20)

XKOCE TUORS BDTOP UKEMO RTSMA TUORS

55555 (R20)

RTSMA RTSMA RTSMA XKOCE XKOCE TUORS

22222 (R20)

TUORS UKEMO TUORS RTSMA XKOCE UKEMO

55555 (R20)

XKOCE BDTOP XKOCE TUORS TUORS XKOCE

55555 (R20)

XKOCE XKOCE RTSMA XKOCE XKOCE TUORS

11111 (R20)

XKOCE UKEMO RTSMA BDTOP UKEMO XKOCE

22222 (R20)

TUORS BDTOP RTSMA UKEMO TUORS UKEMO

22222 (R20)

XKOCE TUORS RTSMA XKOCE UKEMO TUORS

00000 (R3) 000 Off

10380 kHz, 22-12, 0710 UTC, i.p.

Mix of groups BDTOP RTSMA TUORS UKEMO XKOCE separated by repeated numbers groups

14442 kHz, 22-12, 0957 UTC, i.p.

Mix of groups BDTOP RTSMA TUORS UKEMO XKOCE separated by repeated numbers groups until at least 1505z

14442 kHz, 22-12, 1030 UTC, i.p.

55555 (x20)
XKOCE XKOCE RTSMA XKOCE XKOCE TUORS
11111 (x20)
XKOCE UKEMO RTSMA BDTOP UKEMO XKOCE
22222 (x20)
TUORS BDTOP RTSMA UKEMO TUORS UKEMO
22222 (x20)
XKOCE TUORS RTSMA XKOCE UKEMO TUORS
00000 (x20)
XKOCE RTSMA UKEMO RTSMA RTSMA UKEMO
55555 (x20)
BDTOP BDTOP UKEMO XKOCE RTSMA RTSMA
22222 (x20)
TUORS RTSMA RTSMA UKEMO RTSMA RTSMA
22222 (x20)
XKOCE BDTOP RTSMA BDTOP UKEMO XKOCE
11111 (x20)
XKOCE TUORS RTSMA XKOCE RTSMA XKOCE
00000
UKEMO XKOCE UKEMO TUORS TUORS BDTOP
11111 (x20)
RTSMA TUORS TUORS TUORS TUORS BDTOP
22222 (x20)
RTSMA XKOCE RTSMA BDTOP BDTOP XKOCE
55555 (x20)
BDTOP TUORS BDTOP BDTOP TUORS RTSMA
11111 (x20)
XKOCE UKEMO UKEMO BDTOP RTSMA BDTOP
11111 (x20)
XKOCE RTSMA UKEMO TUORS BDTOP XKOCE
00000 (x20)
TUORS TUORS RTSMA UKEMO RTSMA RTSMA
55555 (x20)
XKOCE XKOCE XKOCE XKOCE RTSMA TUORS
22222 (x20)
UKEMO RTSMA UKEMO BDTOP RTSMA BDTOP
00000 (x20)
BDTOP BDTOP RTSMA TUORS XKOCE XKOCE
55555 (x20)
TUORS RTSMA BDTOP UKEMO XKOCE UKEMO
55555 (x20)
BDTOP UKEMO UKEMO RTSMA TUORS UKEMO
55555 (x20)
BDTOP RTSMA TUORS TUORS TUORS RTSMA
11111 (x20)
TUORS XKOCE BDTOP UKEMO RTSMA TUORS
55555 (x20)
XKOCE XKOCE BDTOP XKOCE RTSMA XKOCE
55555 (x20)
BDTOP XKOCE XKOCE UKEMO RTSMA UKEMO
22222 (x20)
XKOCE UKEMO XKOCE XKOCE TUORS XKOCE
00000 (x20)
BDTOP UKEMO XKOCE BDTOP RTSMA UKEMO
22222 (x20)
BDTOP TUORS RTSMA XKOCE BDTOP XKOCE

55555 (x20)
TUORS RTSMA UKEMO XKOCE UKEMO TUORS
55555 (x20)
BDTOP RTSMA UKEMO RTSMA XKOCE UKEMO
00000 (x20)
RTSMA BDTOP XKOCE XKOCE XKOCE RTSMA
11111 (x20)
RTSMA XKOCE TUORS UKEMO TUORS BDTOP
55555 (x20)
etc.

14442 kHz, 23-12, 1028 UTC, i.p.

11111 (x20)
TUORS XKOCE XKOCE XKOCE UKEMO UKEMO
11111 (x20)
XKOCE TUORS TUORS BDTOP RTSMA RTSMA
22222 (x20)
XKOCE BDTOP XKOCE TUORS RTSMA TUORS
11111 (x20)
UKEMO XKOCE BDTOP XKOCE XKOCE UKEMO
22222 (x20)
BDTOP RTSMA TUORS RTSMA BDTOP UKEMO
55555 (x20)
TUORS RTSMA UKEMO RTSMA BDTOP RTSMA
22222 (x20)
RTSMA XKOCE RTSMA XKOCE TUORS XKOCE
55555 (x20)
TUORS XKOCE XKOCE RTSMA TUORS RTSMA
11111 (x20)
etc.

14442 kHz, 23-12, 1204 UTC, i.p.

22222 (x20)
XKOCE BDTOP RTSMA BDTOP UKEMO XKOCE
11111 (x20)
RTSMA TUORS BDTOP BDTOP BDTOP BDTOP
00000 (x20)
UKEMO XKOCE UKEMO TUORS TUORS BDTOP
11111 (x20)
RTSMA TUORS TUORS TUORS TUORS BDTOP
22222 (x20)
etc.

14442 kHz, 23-12, 1307 UTC, i.p.

00000 (x20)
BDTOP RTSMA TUORS TUORS TUORS RTSMA
11111 (x20)
TUORS XKOCE BDTOP UKEMO RTSMA TUORS
55555 (x20)
XKOCE XKOCE BDTOP XKOCE RTSMA XKOCE
55555 (x20)
etc

14442 kHz, 23-12, 1443 UTC, i.p.

11111 (x20)
BDTOP BDTOP RTSMA UKEMO BDTOP RTSMA
00000 (x29)
RTSMA BDTOP RTSMA UKEMO XKOCE BDTOP
55555 (x20)
XKOCE XKOCE TUORS XKOCE UKEMO BDTOP
22222 (x20)
BDTOP XKOCE RTSMA BDTOP UKEMO TUORS
22222 (x20)

RTSMA TUORS RTSMA BDTOP RTSMA RTSMA
55555 (x20)
etc

14442 kHz, 24-12, 1513 UTC

Mix of groups BDTOP RTSMA TUORS UKEMO XKOCE separated by repeated numbers groups until at least 1652z

14442 kHz, 24-12, 1602 UTC

TUORS BDTOP RTSMA BDTOP RTSMA UKEMO
00000 (x20)
XKOCE TUORS TUORS XKOCE TUORS TUORS
22222 (x20)
BDTOP RTSMA UKEMO TUORS TUORS BDTOP
11111 (x20)
XKOCE TUORS BDTOP UKEMO RTSMA TUORS
55555 (x20)
RTSMA RTSMA RTSMA XKOCE XKOCE TUORS
222?2 (x20)
TUORS UKEMO TUORS RTIMA XKOCE UKEMO
55555 (x20)

14442 kHz, 25-12, 0732 UTC

22222 (x20)
XKOCE BDTOP RTSMA BDTOP UKEMO XKOCE
11111 (x20)
XKOCE TUORS RTSMA XKOCE RTSMA XKOCE
55555 (x20)
RTSMA TUORS BDTOP BDTOP BDTOP BDTOP
00000 (x20)
UKEMO XKOCE UKEMO TUORS TUORS BDTOP
11111 (x20)
RTSMA TUORS TUORS TUORS TUORS BDTOP
22222 (x20)
RTSMA XKOCE RTSMA BDTOP BDTOP XKOCE
55555 (x20)

14442 kHz, 26-12, 0743 UTC, i.p.

00000 (x20)
XKOCE TUORS TUORS XKOCE TUORS TUORS
22222 (x20)
BDTOP RTSMA UKEMO TUORS TUORS BDTOP
11111 (x20)
XKOCE TUORS BDTOP UKEMO RTSMA TUORS
55555 (x20)
RTSMA RTSMA RTSMA XKOCE XKOCE TUORS
22222 (x20)
TUORS UKEMO TUORS RTSMA XKOCE UKEMO
55555 (x20)

14442 kHz, 26-12, 0718 UTC

Mix of groups BDTOP RTSMA TUORS UKEMO XKOCE separated by repeated numbers groups until at least 1438z

14442 kHz, 26-12, 1520 UTC, i.p.

RTSMA
22222 (x20)
TUORS XKOCE TUORS BDTOP UKEMO XKOCE
00000 (x20)
UKEMO TUORS RTSMA XKOCE XKOCE UKEMO
22222 (x20)
RTSMA TUORS TUORS TUORS BDTOP BDTOP
00000 (x20)
UKEMO RTSMA BDTOP XKOCE XKOCE BDTOP
22222 (x20)

14442 kHz, 27-12, 0830 UTC

Mix of groups BDTOP RTSMA TUORS UKEMO XKOCE separated by repeated numbers groups until at least 1701z

14442 kHz, 28-12, 0440 UTC

Mix of groups BDTOP RTSMA TUORS UKEMO XKOCE separated by repeated numbers groups until at least 1653z

14442 kHz, 28-12, 0919 UTC, i.p.

i.p. 22222 (x29)

TUORS UKEMO TUORS RTSMA XKOCE UKEMO

55555 (x20)

XKOCE BDTOP XKOCE TUORS TUORS XKOCE

55555 (x20)

14442 kHz, 29-12, 1405 UTC, i.p.

00000 (x20)

XKOCE UKEMO XKOCE BDTOP XKOCE XKOCE

11111 (x20)

XKOCE XKOCE RTSMA BDTOP XKOCE BDTOP

22222 (x20)

XKOCE UKEMO UKEMO RTSMA XKOCE TUORS

11111 (x20)

TUORS BDTOP UKEMO XKOCE XKOCE UKEMO

00000 (x20)

14442 kHz, 29-12, 0711 UTC, i.p.

Mix of BDTOP RTSMA TUORS UKEMO XKOCE separated by 5-figure groups. Up until at least 1517z

14442 kHz, 29-12, 1629 UTC, i.p.

00000 (x20)

TUORS XKOCE RTSMA XKOCE BDTOP TUORS

11111 (x20)

BDTOP UKEMO UKEMO XKOCE RTSMA UKEMO

55555 (x20)

TUORS BDTOP BDTOP UKEMO UKEMO BDTOP

55555 (x20)

RTSMA BDTOP RTSMA TUORS XKOCE RTSMA

55555 (x20)

Nothing found on 30 and 31 December

RUSSIAN MILITARY TRANSCRIPTS

Excerpts from messages submitted by AB, ChPa and SOB.

Monolith stations

Channel markers

4770 kHz, 14-12, 0627 UTC		Alarm
3243 kHz, 18-12, 0444 UTC		Goose
3756 kHz, 18-12, 0445 UTC	S30	Pip
4182 kHz, 18-12, 0446 UTC		Dash
4625 kHz, 18-12, 0505 UTC	S28	Buzzer
5448 kHz, 17-12, 0531 UTC	S30	Pip
4525 kHz, 26-12, 0646 UTC	S30	Pip
5367 kHz, 26-12, 0646 UTC	S30	Pip (5367 is the former S32 freq)
5448 kHz, 26-12, 0646 UTC	S30	Pip
4625 kHz, 26-12, 0610 UTC	S28	Buzzer
4182 kHz, 26-12, 0610 UTC		Dash

4930 kHz, 26-12, 0610 UTC Goose
3243 kHz, 26-12, 0610 UTC Goose (instead of Airhorn)
4770 kHz, 26-12, 0610 UTC Alarm

Morse transmissions

Russian Military morse traffic

21 kHz, 03-12

0807 UTC UUUU RDL RDL RDL 12192 74768 1219 off
0814 UTC UUUUU RDL RDL RDL 40108 49717 40108 49717 40108 49717 K
0905 UTC UUUUU RDL RDL RDL 40108 49717 40108 49717 40108 49717 K
0910 UTC UUUUU RDL RDL RDL 02015 69498 02015 69498 02015 69498 K
1601 UTC UUUUU RDL RDL RDL 31319 94357 31319 94357 31319 94357 K
1604 UTC UUUUU RDL RDL RDL 31319 94357 31319 94357 31319 94357 K
1818 UTC UUUUU RDL RDL RDL 35146 24679 35146 24679 35146 24679 K

5034 kHz, 13-12, 1722 UTC

KAZC DE JP9B QTC ZSM K
KAZC DE JP9B QTC ZSM K
KAZC DE JP9B QTC ZSM K
VVVVVVVVVVVVVVVVVVVVVVVVVVVVVV
KAZC DE JP9B QTC ZSM K
JP9B 736 14 13 2000 736 = ZSM 688 = 80130
JP9B = ZSM 688 K
JP9B ZSM 688 K
JP9B =
80130 08906 53948 25896 61345 76708 15900 17354 13906 49603
88460 82403 74592 95673 23426 10488 84855 68503 87455 80851
13020 K
JP9B = 688 K
JP9B = 688 K

11515 kHz, 16-12, 0931 UTC

SA9Y SA9Y SA9Y DE QU8D QU8D K
RK
WZYK WZYK WZYK DE QU8D QU8D K
RK
6SZE 6SZE 6SZE DE QU8D QU8D K
RK

Russian Navy morse traffic

6323 kHz, 01-12, 0600 UTC

RGR99 wkg with RGR49 RGR87 RGR89 RGR90 RGR91 RGR92 RGR95 RGR96 RGR97 RGR98 REO4

RGR49 RGR49 RGR49 DE RGR99 RGR99 ZSA? K
(RGR49 no copy)
RGR49 DE RGR99 ZSA2 R K
RGR87 RGR87 RGR87 DE RGR99 RGR99 ZSA? K
RGR99 RGR99 RGR99 DE RGR87 RGR87 ZSA3 ZSA? K
RGR87 DE RGR99 ZSA3 R K
RGR89 RGR89 RGR89 DE RGR99 RGR99 ZSA? K
RGR99 RGR99 RGR99 DE RGR89 RGR89 ZSA3 ZSA? K
RGR89 DE RGR99 ZSA4 R K
RGR90 RGR90 RGR90 DE RGR99 RGR99 ZSA? K
RGR99 RGR99 RGR99 DE RGR90 RGR90 ZSA3 ZSA? K
(pause)
VVV MACRO36E e e e e e e e e
RGR90 DE RGR99 ZSA3 R K
RGR91 RGR91 RGR91 DE RGR99 RGR99 ZSA? K
RGR99 RGR99 RGR99 DE RGR91 RGR91 ZSA1 ZSA? K
RGR91 DE RGR99 ZSA3 R K

RGR92 RGR92 RGR92 DE RGR99 RGR99 ZSA? K
 (RGR92 no copy)
 RGR95 RGR95 RGR95 DE RGR99 RGR99 ZSA? K
 RGR99 RGR99 RGR99 DE RGR95 RGR95 ZSA3 ZSA? K
 RGR95 DE RGR99 ZSA3 R K
 RGR96 RGR96 RGR96 DE RGR99 RGR99 ZSA? K
 RGR99 RGR99 RGR99 DE RGR96 RGR96 ZSA3 ZSA? K
 RGR96 DE RGR99 ZSA3 R K
 RGR97 RGR97 RGR97 DE RGR99 RGR99 ZSA? K
 RGR99 RGR99 RGR99 DE RGR97 RGR97 ZSA1 ZSA? K
 RGR97 DE RGR99 ZSA3 R K
 RGR98 RGR98 RGR98 DE RGR99 RGR99 ZSA? K
 RGR99 RGR99 RGR99 DE RGR98 RGR98 ZSA4 ZSA? K
 RGR98 DE RGR99 ZSA3 R K
 REO4 REO4 REO4 DE RGR99 RGR99 ZSA? K
 (REO4 no copy)

6323 kHz, 01-12, 0900 UTC RGR99 wkg with RGR49 RGR87 RGR89 RGR90 RGR91 RGR92 RGR95 RGR96 RGR97 RGR98
 6323 kHz, 02-12, 0602 UTC RGR99 wkg with RGR87 RGR89 RGR90 RGR91 RGR92 RGR94 RGR95 RGR98 REO4
 6323 kHz, 02-12, 0902 UTC RGR99 wkg with RGR87 RGR89 RGR90 RGR91 RGR92 RGR94 RGR95 RGR98
 6323 kHz, 01-12, 1200 UTC RGR99 wkg with RGR87 RGR89 RGR90 RGR91 RGR92 RGR94 RGR95 RGR98

6460.5 kHz, 02-12, 1138 UTC

RMP: Russian Navy Baltic Fleet HQ in Kaliningrad msg to collective call REO.
 REO REO REO DE RMP RMP QTC 487 23 2 1035 487 =
 11111 01884 49672 24430 06681 04721 40984 33717 55722 46256
 83334 23894 23093 83095 19629 97694 06634 13112 43993 84446
 21915 10298 02022 AR

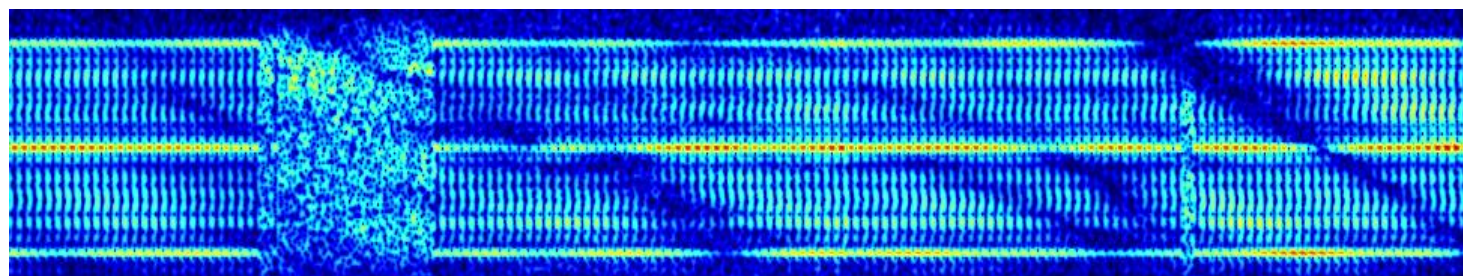
7657 kHz, 30-12, 0914 UTC, FSK CW

XXX RDL EDL RDL 18145 75084 AZOVOChINK 9221 6218 K
 UUUU XXX XXX into CIS 36-50 traffic

Digital transmissions

Russian tactical datalink

6970 kHz, 01-12, 1104 UTC, Akkord 1200Bd/800Hz
 6970 kHz, 30-12, 1550 UTC, Akkord 1200Bd/800Hz
 6970 kHz, 31-12, 1700 UTC, Akkord 1200Bd/800Hz
 5202 kHz, 31-12, 2022 UTC, Akkord 1200Bd/800Hz



Russian tactical datalink

Russian Navy T600 transmissions.

7657 kHz, 30-12, 0850 UTC, T600

Sync 0x1414bebe952
 Session: 32 0e 70 23 34 46 4c 62 1a 64 64 58 46 38 2a 38 16 15 2a 4c 51 61 4a 58 43 61
 62 4a 0d 15 46 43 32 62 0b 15 1a 15 1c 34 25 26
 62 0d 47 71 09 00 61 16 61 43 16 63 2a 0d
 46 0b 23 0d 0b 23 4a 46 1a 2c 0b 61 70 23 62 34
 61 70 62 25 4a 52 19 2a 51 07 2a 64 19 26 38 68
 19 62 19 38 0b 15 2a 16 46 16 0b 43 19 51 58 2c
 43 70 26 06 19 46 34 43 32 23 15 25 61 15 64 43
 32 0d 51 23 0b 62 4c 31 31 68 13 4a 43 16 46 38

58 2a 38 26 16 62 4a 2c 58 2c 13 62 23 62 31 0b
19 15 31 46 46 13 51 70 32 1c 1a 4a 62 13 43 06
4a 19 1a 26 32 0e 68 31 25 52 70 0e 51 0d 51 0b
34 13 4a 1c 0d 26 2c 31 2a 68 0e 07 46 16 54 42
4a 61 2c 19 51 0b 26 13 68 54 52 1a 64 70 13 16
1c 26 15 16 64 4c 25 1a 0e 46 31 51 51 4a 07 4c
54 61 68 1c 58 51 51 70 34 32 2c 16 23 1a 70 0e
52 1a 1c 0e 0b 07 26 68 54 62 61 4c 0e 68 2a 07
0d 26 0b 1a 46 62 16 61 46 13 32 58 2a 16 64 68
25 16 23 54 0b 19 31 51 2c 58 46 34 62 4c 13 68
0e 13 51 52 34 31 23 54 16 25 58 1a 13 4a 05 15
52 54 1c 38 34 23 51 46 62 0b 16 31 0e 26 16 15
51 4a 2a 31 1a 0b 64 2c 70 15 58 34 23 32 19 62
15 2a 2c 46 19 0d 31 13 62 64 58 13 62 0e 51 64
38 07 52 32 52 54 43 51 23 26 62 4a 19 51 52 2a
64 4a 58 2a 16 31 32 62 26 38 25 16 13 68 52 64
25 07 32 15 19 4c 34 70 51 46 58 16 38 25 4a 38
38 61 23 43 1a 34 43 68 61 61 26 15 38 54 2a 31
19 4a 26 13 0e 19 46 61 54 46 70 0d 51 34 61 70
52 46 16 62 32 61 2a 15 64 16 31 51 31 54 58 64
34 46 4c 25 25 4a 13 58 16 62 46 46 46 2a <EOM><EOM><EOM>

7657 kHz, 30-12, 0853 UTC, T600

Sync 1414bebe952

Session Key: 4c 1a 34 61 62 31 0e 23 38 43 13 64 25 1c 58 4c 1c 15 34 68 68 43 4c 64 68
0e 61 13 51 0b 32 61 32 07 0d 61 32 23 43 13 26
38 15 52 4a 68 32 58 0b 32 64 70 13 62 1c 32 70
1a 34 2c 2c 15 07 64 13 15 16 15 16 26 23 51 46
64 43 0e 15 1a 68 16 15 0e 4a 13 07 4c 54 19 64
23 46 46 25 34 25 70 68 4c 2a 1c 54 23 1a 52 0d
68 0b 43 0b 58 15 64 61 0d 1c 25 25 51 4a 25 13
61 43 61 25 32 23 19 64 46 38 54 52 62 46 58 38
4c 13 07 25 4a 52 4a 52 23 31 07 0b 62 1c 54 26
34 54 38 19 61 0d 1a 0d 43 31 1a 34 38 46 70 38
70 62 1a 0b 58 2c 26 62 58 64 32 2a 2a 62 51 64
1c 13 23 0b 2a 4a 1c 07 22 2a 68 0e 1c 0e 38 07
15 4a 0b 25 2a 32 51 26 38 3e 23 38 54 54 32 52
32 32 58 43 15 26 1a 70 54 1c 34 38 2a 70 70 38
70 38 13 0b 1c 23 62 51 64 1a 51 13 16 38 4a 0b
16 58 54 52 1c 26 19 58 15 23 16 15 15 1a 61 2c
32 58 0b 0d 51 54 13 26 1e 61 <EOM><EOM><EOM>

7657 kHz, 30-12, 0856 UTC, T600

Sync 1414bebe952

Session Key: 4a 4a 15 38 31 16 1c 46 0b 52 1a 54 23 54 4c 16 46 2c 13 4a 1a 62 31 43 31
43 52 <EOM><EOM><EOM>

7657 kHz, 30-12, 0900 UTC, T600

Sync 0x1414bebe952

Session Key: 25 38 64 58 61 16 51 68 2a 4a 2c 16 0d 46 2c 1c 1a 54 16 52 68 4a 07 19 0b
15 23 0e 31 19 51 13 1c 4a 46 43 23 0b 1a 0e 2c
0b 32 16 1c 51 34 38 34 26 51 13 1a 4a 62 32 15
4c 4c 1c 58 34 19 52 68 34 2a 32 38 0e 70 62 07
25 25 19 1a 0d 07 0b 15 61 34 52 26 26 34 0e 34
64 54 34 1a 51 4a 61 62 07 07 43 54 58 13 68 4c
62 64 68 0b 0e 19 23 25 13 31 13 1c 38 4a 54 62
61 25 51 2c 0d 54 54 34 2c 0d 43 0d 51 19 64 07
43 19 26 51 38 58 07 1a 13 52 25 15 34 31 16 62
2a 23 19 68 07 26 52 07 31 1a 4c 4a 23 0d 0e 1a
0d 2a 54 1a 16 38 32 19 16 54 2a 1c 13 32 1c 19
13 0d 15 13 68 31 25 52 38 0b 62 26 07 07 32 52
54 19 31 07 07 0d 70 1c 46 52 1c 64 31 51 52 16
13 4c 58 23 33 46 52 26 0b 54 62 38 15 51 1a 13
38 70 16 32 4c 38 07 46 43 2a 16 2a 62 62 6c 0b
2a 51 34 52 13 0d 34 13 4a 34 64 54 19 70 2c 43
4c 34 58 43 68 1a 2c 58 64 13 13 64 58 61 64 25
52 43 0e 2a 16 61 68 4c 38 58 62 1a 64 16 1c 2c
52 38 2c 4c 54 52 23 31 68 4a 1c 23 31 19 54 54
54 38 0e 26 0e 62 2c 4c 4c 34 16 0d 1a 15 13 32
52 64 38 1a 16 70 0b 26 1a 2c 1c 43 2a 58 32 70
4c 58 54 07 0e 0b 19 61 23 51 43 0b 0d 2c 61 62
51 64 43 31 54 62 0b 1c 54 0d 2a 19 46 4c 13 26

07 31 07 13 4c 13 64 4a 70 31 2a 19 2a 25 0b 43
62 51 13 58 46 43 1c 68 46 58 61 19 58 16 51 51
1c 07 58 23 25 2a 16 2a 26 31 2c 2c 51 32 0d 13
2a 31 62 16 19 15 26 31 4c 70 31 61 0e 61 0b 1c
61 0e 68 13 34 16 23 43 34 15 46 64 0b 1c 61 0e
31 15 54 16 2c 52 62 16 16 70 62 68 25 13 4c 4a
15 13 26 31 0d 23 54 15 34 51 19 32 07 07 70 1a
52 4a 31 31 4a 46 23 61 19 0e 2a 38 62 26 0b 16
58 0d 13 43 23 64 4a 54 23 70 19 38 1c 62 51 0d
70 1c 13 4a 23 43 1c 46 19 26 16 62 68 0d 31 19
1c 25 0b 52 62 68 68 0e 58 1a 07 70 64 1e 38 52
19 70 26 38 07 19 25 15 0e 32 51 2a 46 2c 26 0b
68 16 23 68 32 68 64 26 1a 0b 23 1c 25 70 19 0d
07 32 23 38 32 25 51 2a 51 62 51 15 43 4a 13 4c
4c 52 58 2c 70 15 1a 4a 43 51 64 58 31 1c 68 0d
19 4a 07 26 54 4c 70 2c 61 58 2c 0b 1a 51 16 52
52 1c 26 15 34 38 46 25 4a 52 15 1c 61 61 19 38
34 70 68 4c 0d 34 2c 31 64 31 0d 2a 51 62 15 58
2a 1a 15 1a 13 61 38 70 13 2c 0e 19 58 26 58 1c
0b 4c 0d 26 13 0b 54 2a 70 4a 62 25 16 13 4a 13
15 31 4a 1a 51 51 0b 25 31 52 2c 19 38 58 0d 64
1c 46 07 0b 15 4a 19 70 23 51 0e 15 46 43 31 13
38 0d 4a 4c 32 1c 4a 07 07 16 07 32 07 70 31 2a
15 51 46 1c 70 25 61 38 2a 52 15 16 54 43 25 4a
25 2a 23 61 1a 07 19 4c 31 52 32 52 54 0d 2a 31
19 38 13 1a 70 4a 31 64 15 07 4c 68 58 19 2a 25
64 1c 34 2c 13 38 4c 43 2c 2c 58 15 64 62 23 46
52 61 43 1a 0d 1c 68 4a 68 70 32 07 25 0f 1a 51
13 62 25 19 70 70 61 70 58 70 68 61 0d 51 2a 51
16 32 54 46 58 34 46 43 25 23 34 15 31 34 26 0d
70 2c 16 58 2c 38 64 34 07 4a 68 0b 43 26 15 51
1c 15 34 52 43 0b 51 58 16 58 64 4c 13 68 19 1c
0b 46 16 16 0b 4c 0b 34 64 4a 0d 70 34 16 54 4c
0e 70 64 4c 51 25 25 52 61 2c 1c 46 58 15 4c 34
19 16 38 07 64 54 2a 31 15 13 70 58 0d 58 1c 52
23 07 68 16 23 43 16 23 4c 52 25 43 25 4a 62 58
43 2c 32 32 26 54 0d 4c 23 25 31 15 19 0e 2a 13
07 23 46 46 32 2c 2a 32 61 64 16 0d 4a 64 26 26
54 19 38 52 51 0e 62 25 62 0e 68 19 43 0b 70 70
64 38 25 0d 46 70 4c 19 52 4a 34 16 2a 25 07 68
2a 2c 26 38 26 2c 0e 23 0b 58 52 23 52 4a 43 51
26 62 2a 64 1a 2a 61 0e 23 25 15 1c 31 52 61 68
2c 1a 64 07 25 1c 68 43 46 31 0d 4c 07 2a 1a 38
06 1c 25 2a 19 0b 61 4a 2a 61 25 64 0d 26 4a 52
54 34 31 23 23 52 23 31 64 46 64 64 23 61 13 4a
16 58 31 43 4a 64 70 16 31 25 70 0d 4c 70 2c 0e
31 15 0e 1c 1a 70 26 68 68 46 19 34 16 26 68 0e
43 2c 34 38 46 13 58 62 70 51 62 54 2c 4a 68 4a
13 31 68 19 43 0b 26 13 4a 4c 15 38 68 43 58 2a
4a 61 0b 2a 54 07 2c 70 07 61 43 32 68 51 15 31
64 0e 07 4a 32 4a 38 0b 68 30 16 34 16 2a 61 52
15 13 4c 25 58 25 23 51 23 70 61 64 31 2c 2a 61
07 15 68 2a 62 4c 51 51 38 31 0d 4a 46 52 58 13
54 4c 19 1a 43 31 0d 15 0e 0e 58 52 70 46 68 62
13 70 25 31 07 32 0b 54 46 70 62 15 0b 46 1a 62
52 07 54 26 0b 1a 38 43 52 13 2a 0d 26 15 2c 64
0e 4a 64 07 19 2c 1a 4a 31 1c 0d 0e 58 52 19 4a
58 26 46 4c 38 26 18 2a 0b 4c 07 0d 25 54 0e 38
62 2c 25 0d 46 32 64 16 70 26 26 38 46 64 46 4c
70 15 38 19 2a 0d 68 31 4a 32 25 2a 19 61 58 43
34 16 19 46 46 31 <EOM><EOM><EOM>

LOGS SECTION

Code	Date	UTC	Freq	Day	Details	Mode	Contributor
---	1-12	1104	6970	Fri	Russian tactical datalink	Akkord 1200Bd/800Hz	(AB)
---	5-12	0641	16730	Tue	New buzzer	USB	(AB)
---	12-12	1416	7502	Tue	New buzzer	USB	(AB)
---	14-12	0627	4770	Thu	Alarm, Russian military channel marker	USB	(ChPa)
---	18-12	0444	3243	Mon	Goose, Russian military channel marker	USB	(ChPa)
---	18-12	0446	4182	Mon	Dash, Russian military channel marker	USB	(ChPa)
---	20-12	1312	8055	Wed	Russian net	MFSK-13	(AB-J)
---	20-12	1319	6853	Wed	Unid i.p. RNIZ TAGB VV 0967 0967 DE FYOK K	CW	(AB-J)
---	21-12	0802	16138	Thu	Russian net	MFSK-13	(AB)
---	21-12	0849	16138	Thu	Russian net	MFSK-13	(AB)
---	26-12	0610	3243	Tue	Goose (instead of Airhorn)	USB	(AB)
---	26-12	0610	4182	Tue	Dash	USB	(AB)
---	26-12	0610	4770	Tue	Alarm	USB	(AB)
---	26-12	0610	4930	Tue	Goose	USB	(AB)
---	29-12	1055	18730	Fri	New buzzer	USB	(EW)
---	29-12	1055	19730	Fri	New buzzer	USB	(EW)
---	29-12	1055	20730	Fri	New buzzer	USB	(EW)
---	29-12	1107	18730	Fri	New buzzer	USB	(AB)
---	29-12	1107	19730	Fri	New buzzer	USB	(AB)
---	29-12	1107	20730	Fri	New buzzer	USB	(AB)
---	30-12	1550	6970	Sat	Russian tactical datalink	Akkord 1200Bd/800Hz	(AB)
---	30-12	1552	5824	Sat	New buzzer	USB	(AB)
---	30-12	1552	5852	Sat	New buzzer	USB	(AB)
---	30-12	1552	6725	Sat	New buzzer	USB	(AB)
---	30-12	1809	5050	Sat	New buzzer	USB	(AB)
---	30-12	1809	6365	Sat	New buzzer	USB	(AB)
---	30-12	1809	7550	Sat	New buzzer	USB	(AB)
---	31-12	1518	5802	Sun	New buzzer	USB	(AB)
---	31-12	1518	5824	Sun	New buzzer	USB	(AB)
---	31-12	1518	5852	Sun	New buzzer	USB	(AB)
---	31-12	1700	6970	Sun	Russian tactical datalink	Akkord 1200Bd/800Hz	(AB)
---	31-12	2022	5202	Sun	Russian tactical datalink	Akkord 1200Bd/800Hz	(AB)
----	6-12	1136	17432	Wed	Loop transmission. Moved to 18412kHz at 1401z. = YBGSJ YDHFT BBRMB ... CHVKD YNCAZ VFPEN =	CW	(SOB)
----	6-12	1401	18412	Wed	Loop transmission. = YBGSJ YDHFT BBRMB ... CHVKD YNCAZ VFPEN =	CW	(SOB)
----	7-12	1026	17432	Thu	= 57 57 57 57 TORBY YUHGY UOETT... RVPEQ CWBDB TTHRP = Loop transmission. Started abruptly in the middle of messag	CW	(SOB)

----	7-12	1202	18412	Thu	00000 00000 00000 00000 00000 RTSMA UKEMO BDTOP TUORS BDTOP BDTOP 55555 (R2min 30sec) ...	CW	(SOB)
----	7-12	1235	18412	Thu	= 57 57 57 57 TORBY YUHGY UOETT... RVPEQ CWBDB TTHRP = Loop transmission	CW	(SOB)
----	8-12	1026	17432	Fri	= 57 57 57 57 TORBY YUHGY UOETT ... RVPEQ CWBDB TTHRP = 57 57 57 57 (loop transmission)	CW	(SOB)
----	8-12	1052	17432	Fri	55555 (2min 30sec) XKOCE BDTOP UKEMO XKOCE RTSMA TUORS 11111 (R4min) TUORS XKOCE XKOCE XKOCE UKEMO UKEMO ...	CW	(SOB)
----	9-12	1000	17432	Sat	BDTOP RTSMA TUORS UKEMO XKOCE separated by repeated numbers 0, 1, 2, and 5. Moved to 18412 kHz at 1159z	CW	(SOB)
----	9-12	1036	17432	Sat	i.p. 11111 (R) XKOCE XKOCE TUORS BDTOP UKEMO XKOCE 11111 (R) UKEMO BDTOP RTSMA UKEMO XKOCE TUORS 55555 (R)	CW	(AB-S)
----	9-12	1201	18412	Sat	BDTOP RTSMA TUORS UKEMO XKOCE separated by repeated numbers 0, 1, 2, and 5. Ended at 1400Zz	CW	(SOB)
----	10-12	1000	17432	Sun	BDTOP RTSMA TUORS UKEMO XKOCE separated by repeated numbers 0, 1, 2, and 5. Ended at 1230z	CW	(SOB)
----	10-12	1230	17432	Sun	BDTOP RTSMA TUORS UKEMO XKOCE separated by repeated numbers 0, 1, 2, 3, 5, 6, 7, 8, and 9. Ended at 1358z	CW	(SOB)
----	11-12	0415	7542	Mon	BDTOP RTSMA TUORS UKEMO XKOCE separated by repeated numbers 0, 1, 2, 3, 5, 6, 7, 8, and 9. Ended at 0618z	CW	(SOB)
----	11-12	1042	17432	Mon	BDTOP RTSMA TUORS UKEMO XKOCE separated by repeated numbers 0, 1, 2, 3, 5, 6, 7, 8, and 9. Moved to 18412 kHz at 1	CW	(SOB)
----	11-12	1200	18412	Mon	BDTOP RTSMA TUORS UKEMO XKOCE separated by repeated numbers 0, 1, 2, 3, 5, 6, 7, 8, and 9	CW	(SOB)
----	11-12	1637	5182	Mon	i.p. 99999 (R) TUORS BDTOP BDTOP RTSMA UKEMO TUORS 00000 (x20) XKOCE TUORS BDTOP UKEMO XKOCE RTSMA 22222 (x20)	CW	(WN)
----	11-12	2010	5182	Mon	i.p. 11111 (x20) TUORS BDTOP XKOCE TUORS UKEMO TUORS 44444 (x20) UKEMO TUORS RTSMA BDTOP BDTOP TUORS 99999 (x20)	CW	(AB-S)
----	12-12	0623	5182	Tue	i.p. 44444 (x20) BDTOP UKEMO RTSMA XKOCE XKOCE TUORS 11111 (x20) TUORS UKEMO XKOCE BDTOP TUORS BDTOP 44444 (x20)	CW	(AB-S)
----	14-12	0355	7542	Thu	BDTOP RTSMA TUORS UKEMO XKOCE separated by repeated numbers 0, 1, 2, 3, 5, 6, 7, 8, and 9	CW	(SOB)
----	14-12	1053	10916	Thu	BDTOP RTSMA TUORS UKEMO XKOCE separated by numbers groups	CW	(SOB)
----	14-12	1155	10916	Thu	TUORS BDTOP TUORS BDTOP BDTOP 44444 (R20) RTSMA UKEMO XKOCE RTSMA XKOCE UKEMO 99999 (R20)	CW	(Zok)
----	15-12	0730	10916	Fri	BDTOP RTSMA TUORS UKEMO XKOCE separated by numbers groups	CW	(SOB)
----	15-12	1104	17432	Fri	BDTOP RTSMA TUORS UKEMO XKOCE separated by numbers groups. Moved to 18412 kHz at 1304z	CW	(SOB)
----	15-12	1200	14442	Fri	i.p. 99999 (x20) BDTOP TUORS(R3) XKOCE UKEMO 88888 (x20) TUORS off	CW	(sse)
----	15-12	1304	18412	Fri	BDTOP RTSMA TUORS UKEMO XKOCE separated by numbers groups	CW	(SOB)
----	15-12	1523	14400	Fri	BDTOP RTSMA TUORS UKEMO XKOCE separated by numbers groups	CW	(SOB)
----	16-12	1117	17432	Sat	BDTOP RTSMA TUORS UKEMO XKOCE separated by numbers groups i.p. Moved to 18412 kHz at 1304z	CW	(SOB)

----	16-12	1304	18412	Sat	BDTOP RTSMA TUORS UKEMO XKOCE separated by numbers groups. Moved to 14400 kHz at 1504z	CW	(SOB)
----	16-12	1504	14400	Sat	BDTOP RTSMA TUORS UKEMO XKOCE separated by numbers groups. Ended at 1630z	CW	(SOB)
----	17-12	0518	4951	Sun	BDTOP RTSMA TUORS UKEMO XKOCE (R) separated number groups	CW	(SOB)
----	17-12	0518	04951	Sun	BDTOP RTSMA TUORS UKEMO XKOCE separated by numbers groups i.p.	CW	(SOB)
----	17-12	1036	14442	Sun	BDTOP RTSMA TUORS UKEMO XKOCE separated by numbers groups i.p.	CW	(SOB)
----	17-12	1125	17432	Sun	BDTOP RTSMA TUORS UKEMO XKOCE separated by numbers groups i.p.	CW	(SOB)
----	17-12	1307	18412	Sun	BDTOP RTSMA TUORS UKEMO XKOCE separated by numbers groups i.p.	CW	(SOB)
----	18-12	0350	05873	Mon	BDTOP RTSMA TUORS UKEMO XKOCE separated by numbers groups i.p. Ended at 0504z	CW	(SOB)
----	18-12	0945	14442	Mon	BDTOP RTSMA TUORS UKEMO XKOCE separated by numbers groups i.p. Moved to 17432 kHz at 1104z	CW	(SOB)
----	18-12	1104	17432	Mon	BDTOP RTSMA TUORS UKEMO XKOCE separated by numbers groups. Moved to 18412 kHz at 1304z)	CW	(SOB)
----	18-12	1304	18412	Mon	BDTOP RTSMA TUORS UKEMO XKOCE separated by numbers groups. Ended at 1442z	CW	(SOB)
----	18-12	1625	10300	Mon	BDTOP RTSMA TUORS UKEMO XKOCE separated by numbers groups i.p.	CW	(SOB)
----	20-12	1010	14442	Wed	i.p. 22222 (R20) BDTOP RTSMA TUORS RTSMA BDTOP RKEMO 55555 (R20) TUORS RTSMA UKEMO RTSMA BDTOP RTSMA 22222 (R20)	CW	(sse)
----	22-12	0710	10380	Fri	Mix of groups BDTOP RTSMA TUORS UKEMO XKOCE separated by repeated numbers groups	CW	(SOB)
----	22-12	0957	14442	Fri	Mix of groups BDTOP RTSMA TUORS UKEMO XKOCE separated by repeated numbers groups until at least 1505z	CW	(SOB)
----	22-12	1030	14442	Fri	i.p. 55555 (x20) XKOCE XKOCE RTSMA XKOCE XKOCE TUORS 11111 (x20) XKOCE UKEMO RTSMA BDTOP UKEMO XKOCE 22222 (x20)	CW	(sse)
----	23-12	1028	14442	Sat	i.p. 11111 (x20) TUORS XKOCE XKOCE XKOCE UKEMO UKEMO 11111 (x20) XKOCE TUORS TUORS BDTOP RTSMA RTSMA 22222 (x20)	CW	(AB-S)
----	23-12	1030	14442	Sat	... (standard traffic)	CW	(sse)
----	23-12	1204	14442	Sat	i.p. 22222 (x20) XKOCE BDTOP RTSMA BDTOP UKEMO XKOCE 11111 (x20) RTSMA TUORS BDTOP BDTOP BDTOP BSTOP 00000 (x20)	CW	(AB-S)
----	23-12	1307	14442	Sat	i.p. 00000 (x20) BDTOP RTSMA TUORS TUORS TUORS RTSMA 11111 (x20) TUORS XKOCE BDTOP UKEMO RTSMA TUORS 55555 (x20)	CW	(AB-S)
----	23-12	1443	14442	Sat	i.p. 11111 (x20) BDTOP BDTOP RTSMA UKEMO BDTOP RTSMA 00000 (x29) RTSMA BDTOP RTSMA UKEMO XKOCE BDTOP 55555 (x20)	CW	(AB-S)
----	24-12	1513	14442	Sun	Mix of groups BDTOP RTSMA TUORS UKEMO XKOCE separated by repeated numbers groups until at least 1652z	CW	(SOB)
----	24-12	1602	14442	Sun	TUORS BDTOP RTSMA BDTOP RTSMA UKEMO 00000 (x20)	CW	(AB-S)
----	25-12	0732	14442	Mon	i.p. 22222 (x20) XKOCE BDTOP RTSMA BDTOP UKEMO XKOCE 11111 (x20)	CW	(AB-S)
----	26-12	0718	14442	Tue	Mix of groups BDTOP RTSMA TUORS UKEMO XKOCE separated by repeated numbers groups until at least 1438z	CW	(SOB)
----	26-12	0743	14442	Tue	i.p. 00000 (x20) XKOCE TUORS TUORS XKOCE TUORS TUORS 22222 (x20)	CW	(AB)
----	26-12	1520	14442	Tue	i.p. RTSMA 22222 (x20) TUORS XKOCE TUORS BDTOP UKEMO XKOCE 00000 (x20)	CW	(AB)

----	27-12	0830	14442	Wed	Mix of groups BDTOP RTSMA TUORS UKEMO XKOCE separated by repeated numbers groups until at least 1701z	CW	(SOB)
----	28-12	0440	14442	Thu	Mix of groups BDTOP RTSMA TUORS UKEMO XKOCE separated by repeated numbers groups until at least 1653z	CW	(SOB)
----	28-12	0919	14442	Thu	i.p. 22222 (x29) TUORS UKEMO TUORS RTSMA XKOCE UKEMO 55555 (x20) XKOCE BDTOP XKOCE TUORS TUORS XKOCE 55555 (x20)	CW	(AB)
----	29-12	0711	14442	Fri	Mix of BDTOP RTSMA TUORS UKEMO XKOCE separated by 5-figure groups. Up until at least 1517z	CW	(SOB)
----	29-12	1405	14442	Fri	00000 (x20) XKOCE UKEMO XKOCE BDTOP XKOCE XKOCE 11111 (x20)	CW	(AB-S)
----	29-12	1629	14442	Fri	00000 (x20) TUORS XKOCE RTSMA XKOCE BDTOP TUORS 11111 (x20) BDTOP UKEMO UKEMO XKOCE RTSMA UKEMO 55555 (x20)	CW	(AB-S)
BUL	6-12	1326	17440	Wed	MFA Sofia wkg unid embassy on 13365 kHz	RFSM	(AB)
BUL	6-12	1333	13365	Wed	Unid Bulgarian embassy wkg MFA Sofia on 17440 kHz	RFSM	(AB)
BUL	6-12	1355	18455	Wed	MFA Sofia wkg unid embassy	RFSM	(AB)
BUL	7-12	1312	17440	Thu	MFA Sofia wkg unid embassy	RFSM	(AB)
BUL	7-12	1328	13365	Thu	Unid Bulgarian embassy	RFSM	(AB)
BUL	7-12	1357	18455	Thu	MFA Sofia wkg unid embassy	RFSM	(AB)
BUL	8-12	1215	18455	Fri	Bulgarian diplo i.p.	RFSM	(AB)
BUL	8-12	1327	13365	Fri	Unid Bulgarian embassy wkg MFA Sofia	RFSM	(AB)
BUL	8-12	1328	17440	Fri	MFA Sofia wkg unid embassy	RFSM	(AB)
BUL	13-12	1325	17440	Wed	MFA Sofia wkg unid embassy on 13365 kHz	RFSM	(AB)
BUL	13-12	1326	13365	Wed	Unid Bulgarian embassy wkg MFA Sofia on 17440 kHz	RFSM	(AB)
BUL	13-12	1358	18455	Wed	MFA Sofia wkg unid embassy	RFSM	(AB)
BUL	14-12	1324	17440	Thu	MFA Sofia wkg unid embassy	RFSM	(AB)
BUL	14-12	1328	13365	Thu	Unid Bulgarian embassy	RFSM	(AB)
BUL	14-12	1358	18455	Thu	MFA Sofia wkg unid embassy	RFSM	(AB)
BUL	15-12	1221	18455	Fri	MFA Sofia traffic	RFSM	(AB)
BUL	15-12	1328	13365	Fri	Unid Bulgarian embassy wkg MFA Sofia	RFSM	(AB)
BUL	15-12	1328	17440	Fri	MFA Sofia wkg unid embassy	RFSM	(AB)
BUL	19-12	1312	13365	Tue	Bulgarian diplo traffic	RFSM	(AB)
BUL	19-12	1325	17440	Tue	MFA Sofia traffic	RFSM	(AB)
BUL	19-12	1358	18455	Tue	MFA Sofia traffic	RFSM	(AB)
BUL	21-12	0920	13365	Thu	MFA Sofia wkg unid embassy	RFSM	(AB)
BUL	21-12	1326	17440	Thu	MFA Sofia wkg unid embassy	RFSM	(AB)
BUL	21-12	1356	18455	Thu	MFA Sofia wkg unid embassy	RFSM	(AB)
BUL	22-12	0945	18515	Fri	Bulgarian diplo	RFSM	(AB)
DPRK	1-12	0640	11045	Fri	North Korean diplo	DPRK-ARQ 600 LSB	(AB)
DPRK	2-12	0813	14400	Sat	North Korean diplo. QSX 14600 kHz	DPRK-ARQ 600 LSB	(AB)
DPRK	2-12	0813	14600	Sat	North Korean diplo. QSX 14400 kHz	DPRK-ARQ 600 LSB	(AB)
DPRK	5-12	0650	14444	Tue	North Korean diplo	DPRK-ARQ 600 LSB	(AB)
DPRK	6-12	0630	13400	Wed	North Korean diplo. QSX 16252 kHz	DPRK-ARQ 600 LSB	(AB)
DPRK	6-12	0630	16252	Wed	North Korean diplo. QSX 13400 kHz	DPRK-ARQ 600 LSB	(AB)

DPRK	6-12	0738	13000	Wed	North Korean diplo	DPRK-ARQ 600 LSB	(AB)
DPRK	6-12	1257	16252	Wed	North Korean diplo	DPRK-ARQ 600 LSB	(AB)
DPRK	8-12	1328	14444	Fri	North Korean diplo	DPRK-ARQ 600 LSB	(AB)
DPRK	19-12	0813	14600	Tue	North Korean diplo	DPRK-ARQ 600 LSB	(AB)
DPRK	23-12	1306	14444	Sat	North Korean diplo	DPRK-ARQ 600 LSB	(AB)
DPRK	25-12	0757	14444	Mon	North Korean diplo	DPRK-ARQ 600 LSB	(AB)
E06	1-12	0300	14654	Fri	361 209 43 04749 18437 53093 ... 66039 32345 13624 209 43 00000	USB	(AB/HFD-RUS)
E06	1-12	0400	12177	Fri	361 209 43 04749 18437 53093 ... 66039 32345 13624 209 43 00000	USB	(AB/HFD-RUS)
E06	4-12	0210	9382	Mon	537 291 48 59019 33467 27992 ... 47779 56712 64409 291 48 00000	USB	(PY)
E06	4-12	0310	13426	Mon	537 291 48 59019 33467 27992 ... 47779 56712 64409 291 48 00000	USB	(PY)
E06	5-12	0210	9382	Tue	537 291 48 = 59019 ...	USB	(HFD-J)
E06	5-12	0210	9382	Tue	537 291 48 59019 33467 27992 ... 47779 56712 64409 291 48 00000	USB	(PY)
E06	5-12	0310	13426	Tue	537 291 48 = 59019 ...	USB	(HFD-J)
E06	5-12	0310	13426	Tue	537 291 48 59019 33467 27992 ... 47779 56712 64409 291 48 00000	USB	(PY)
E06	7-12	0300	14654	Thu	361 578 44 81136 88521 59562 ... 52916 83745 77406 578 44 00000	USB	(PY)
E06	7-12	0400	12177	Thu	361 578 44 81136 88521 59562 ... 52916 83745 77406 578 44 00000	USB	(PY)
E06	7-12	0600	14575	Thu	923 641 50 82144 71663 73418 ... 86500 45031 82445 641 50 00000	USB	(AB-CYP/sse/HFD-RUS)
E06	7-12	0700	17420	Thu	923 641 50 82144 71663 73418 ... 86500 45031 82445 641 50 00000	USB	(AB/HFD-RUS)
E06	8-12	0300	14654	Fri	361 578 44 81136 88521 59562 ... 52916 83745 77406 578 44 00000	USB	(PY)
E06	8-12	0400	12177	Fri	361 578 44 81136 88521 59562 ... 52916 83745 77406 578 44 00000	USB	(PY)
E06	8-12	0600	14575	Fri	923 641 50 82144 71663 73418 ... 86500 45031 82445 641 50 00000	USB	(AB-CYP)
E06	8-12	0700	17420	Fri	923 641 50 82144 71663 73418 ... 86500 45031 82445 641 50 00000	USB	(AB)
E06	11-12	0210	9382	Mon	537 268 49 59173 85951 08133 ... 33529 57432 39115 268 49 00000	USB	(PY)
E06	11-12	0310	13426	Mon	537 268 49 59173 85951 08133 ... 33529 57432 39115 268 49 00000	USB	(PY)
E06	12-12	0210	9382	Tue	537 268 49 59173 85951 08133 ... 33529 57432 39115 268 49 00000	USB	(PY)
E06	12-12	0310	13426	Tue	537 268 49 59173 85951 08133 ... 33529 57432 39115 268 49 00000	USB	(PY)
E06	14-12	0300	14654	Thu	361 290 45 72347 41106 38293 ... 76167 76561 01407 290 45 00000	USB	(PY)
E06	14-12	0400	12177	Thu	361 290 45 72347 41106 38293 ... 76167 76561 01407 290 45 00000	USB	(PY)
E06	15-12	0300	14654	Fri	361 290 45 72347 41106 38293 ... 76167 76561 01407 290 45 00000	USB	(PY)
E06	15-12	0400	12177	Fri	361 290 45 72347 41106 38293 ... 76167 76561 01407 290 45 00000	USB	(PY)
E06	18-12	0210	9382	Mon	537 149 50 33258 56500 18554 ... 22980 26143 57447 149 50 00000	USB	(PY)
E06	18-12	0310	13426	Mon	537 149 50 33258 56500 18554 ... 22980 26143 57447 149 50 00000	USB	(PY)
E06	19-12	0210	9382	Tue	537 149 50 33258 56500 18554 ... 22980 26143 57447 149 50 00000	USB	(PY)
E06	19-12	0310	13426	Tue	537 149 50 33258 56500 18554 ... 22980 26143 57447 149 50 00000	USB	(PY)
E06	21-12	0300	14654	Thu	361 587 46 89726 10711 85509 ... 18523 77751 43302 587 46 00000	USB	(PY)
E06	21-12	0400	12177	Thu	361 587 46 89726 10711 85509 ... 18523 77751 43302 587 46 00000	USB	(PY)
E06	21-12	0600	14575	Thu	923 876 51 14816 35088 64005 ... 29067 57783 22579 876 51 00000	USB	(AB-QAT)
E06	21-12	0700	17420	Thu	923 876 51 14816 35088 64005 ... 29067 57783 22579 876 51 00000	USB	(AB)
E06	22-12	0300	14654	Fri	361 587 46 89726 10711 85509 ... 18523 77751 43302 587 46 00000	USB	(PY)
E06	22-12	0400	12177	Fri	361 587 46 89726 10711 85509 ... 18523 77751 43302 587 46 00000	USB	(PY)
E06	22-12	0600	14575	Fri	923 876 51 14816 35088 64005 ... 29067 57783 22579 876 51 00000	USB	(AB-QAT)
E06	22-12	0700	17420	Fri	923 876 51 14816 35088 64005 ... 29067 57783 22579 876 51 00000	USB	(AB)

E06	25-12	0210	9382	Mon	537 682 30 13266 71634 60653 ... 82425 35152 56947 682 30 00000	USB	(PY)
E06	25-12	0310	13426	Mon	537 682 30 13266 71634 60653 ... 82425 35152 56947 682 30 00000	USB	(PY)
E06	26-12	0210	9382	Tue	537 682 30 13266 71634 60653 ... 82425 35152 56947 682 30 00000	USB	(PY)
E06	26-12	0310	13426	Tue	537 682 30 13266 71634 60653 ... 82425 35152 56947 682 30 00000	USB	(PY)
E06	26-12	0836	9463	Tue	801 once spoken test	USB	(sse)
E06	28-12	0300	14654	Thu	Not monitored	USB	(PY)
E06	28-12	0400	12177	Thu	361 902 47 36499 07913 58170 ... 84770 73316 83648 902 47 00000	USB	(PY)
E06	29-12	0300	14654	Fri	361 902 47 36499 07913 58170 ... 84770 73316 83648 902 47 00000	USB	(PY)
E06	29-12	0400	12177	Fri	361 902 47 36499 07913 58170 ... 84770 73316 83648 902 47 00000	USB	(PY)
E06	30-12	1600	7377	Sat	480 536 48 35416 32312 89121 ... 13191 19151 17029 536 48 00000	USB	(PY)
E06	30-12	1630	5410	Sat	480 536 48 35416 32312 89121 ... 13191 19151 17029 536 48 00000	USB	(sse)
E06	31-12	0730	9946	Sun	480 536 48 35416 32312 89121 ... 13191 19151 17029 536 48 00000	USB	(AB-POL)
E06	31-12	0800	8095	Sun	480 536 48 35416 32312 89121 ... 13191 19151 17029 536 48 00000	USB	(AB-POL)
E07	1-12	1500	13539	Fri	512 512 512 000	USB	(AB/MPJ/HFD)
E07	1-12	1520	12139	Fri	512 512 512 000	USB	(AB/MPJ/HFD)
E07	2-12	1400	9143	Sat	116 116 116 000	USB	(AB/MPJ/HFD)
E07	2-12	1410	10226	Sat	674 674 674 000	USB	(AB/MPJ/HFD)
E07	2-12	1420	8143	Sat	116 116 116 000	USB	(AB/MPJ/HFD)
E07	2-12	1430	9226	Sat	674 674 674 000	USB	(AB/MPJ/HFD/Lac)
E07	3-12	0700	9326	Sun	345 345 345 000	USB	(AB/HFD)
E07	3-12	0720	10426	Sun	345 345 345 000	USB	(AB/HFD)
E07	5-12	1500	13539	Tue	512 512 512 1 373 138 373 138 51302 37673 55736 ... 16308 03977 51284 000 000	USB	(AB/Lac)
E07	5-12	1520	12139	Tue	512 512 512 1 373 138 373 138 51302 37673 55736 ... 16308 03977 51284 000 000	USB	(AB/Lac)
E07	5-12	1540	10239	Tue	512 512 512 1 373 138 373 138 51302 37673 55736 ... 16308 03977 51284 000 000	USB	(AB/Lac)
E07	7-12	1410	10226	Thu	674 674 674 1 6210 73 6210 73 51866 55975 93280 ... 18751 56087 10307 000 000	USB	(AB/MPJ/Lac)
E07	7-12	1430	9226	Thu	674 674 674 1 6210 73 6210 73 51866 55975 93280 ... 18751 56087 10307 000 000	USB	(AB/MPJ)
E07	7-12	1450	8126	Thu	674 674 674 1 6210 73 6210 73 51866 55975 93280 ... 18751 56087 10307 000 000	USB	(AB/MPJ)
E07	8-12	1500	13539	Fri	512 512 512 1 373 138 373 138 51302 37673 55736 ... 16308 03977 51284 000 000	USB	(AB-CYP/MPJ)
E07	8-12	1520	12139	Fri	512 512 512 1 373 138 373 138 51302 37673 55736 ... 16308 03977 51284 000 000	USB	(AB-CYP/MPJ)
E07	8-12	1540	10239	Fri	512 512 512 1 373 138 373 138 51302 37673 55736 ... 16308 03977 51284 000 000	USB	(AB/MPJ)
E07	9-12	1400	9143	Sat	116 116 116 000	USB	(AB)
E07	9-12	1410	10226	Sat	674 674 674 1 6210 73 6210 73 51866 55975 93280 ... 18751 56087 10307 000 000	USB	(AB)
E07	9-12	1420	8143	Sat	116 116 116 000	USB	(AB)
E07	9-12	1430	9226	Sat	674 674 674 1 6210 73 6210 73 51866 55975 93280 ... 18751 56087 10307 000 000	USB	(AB)
E07	9-12	1450	8126	Sat	674 674 674 1 6210 73 6210 73 51866 55975 93280 ... 18751 56087 10307 000 000	USB	(AB)
E07	10-12	0700	9326	Sun	345 345 345 000	USB	(AB)
E07	10-12	0720	10426	Sun	345 345 345 000	USB	(AB)
E07	12-12	1500	13539	Tue	512 512 512 000	USB	(AB)
E07	12-12	1520	12139	Tue	512 512 512 000	USB	(AB)
E07	14-12	1120	8072	Thu	68 687 687 1 6714 14 6714 14 27684 53178 58016 35297 10920 87952 77281 63248 21703 84430 05733 84247 84001 12152 000 000	USB	(EL)
E07	14-12	1410	10226	Thu	674 674 674 000	USB	(AB/MPJ)

E07	14-12	1430	9226	Thu	674 674 674 000	USB	(AB/MPJ)
E07	15-12	1500	13539	Fri	512 512 512 000	USB	(AB)
E07	15-12	1520	12139	Fri	512 512 512 000	USB	(AB)
E07	16-12	1400	9143	Sat	116 116 116 000	USB	(AB)
E07	16-12	1410	10226	Sat	674 674 674 000	USB	(AB)
E07	16-12	1420	8143	Sat	116 116 116 000	USB	(AB)
E07	16-12	1430	9226	Sat	674 674 674 000	USB	(AB)
E07	17-12	0700	9326	Sun	345 345 345 000	USB	(AB)
E07	17-12	0720	10426	Sun	345 345 345 000	USB	(AB)
E07	19-12	1500	13539	Tue	512 512 512 1 204 66 204 66 22978 18353 41506 ... 23830 94982 82084 000 000	USB	(AB)
E07	19-12	1520	12139	Tue	512 512 512 1 204 66 204 66 22978 18353 41506 ... 23830 94982 82084 000 000	USB	(AB/sse)
E07	19-12	1540	10239	Tue	512 512 512 1 204 66 204 66 22978 18353 41506 ... 23830 94982 82084 000 000	USB	(AB)
E07	21-12	1410	10226	Thu	674 674 674 1 285 58 285 58 35181 11947 40273 ... 47490 75384 22135 000 000	USB	(AB/MPJ/SOB/Lac)
E07	21-12	1430	9226	Thu	674 674 674 1 285 58 285 58 35181 11947 40273 ... 47490 75384 22135 000 000	USB	(AB/MPJ)
E07	21-12	1450	8126	Thu	674 674 674 1 285 58 285 58 35181 11947 40273 ... 47490 75384 22135 000 000	USB	(AB/MPJ)
E07	22-12	1500	13539	Fri	512 512 512 1 204 66 204 66 22978 18353 41506 ... 23830 94982 82084 000 000	USB	(AB-POL/MPJ)
E07	22-12	1520	12139	Fri	512 512 512 1 204 66 204 66 22978 18353 41506 ... 23830 94982 82084 000 000	USB	(AB/MPJ)
E07	22-12	1540	10239	Fri	512 512 512 1 204 66 204 66 22978 18353 41506 ... 23830 94982 82084 000 000	USB	(AB/MPJ)
E07	23-12	1400	9143	Sat	116 116 116 000	USB	(AB/MPJ)
E07	23-12	1410	10226	Sat	674 674 674 1 285 58 285 58 35181 11947 40273 ... 47490 75384 22135 000 000	USB	(AB/Tel/MPJ)
E07	23-12	1420	8143	Sat	116 116 116 000	USB	(AB/MPJ)
E07	23-12	1430	9226	Sat	674 674 674 1 285 58 285 58 35181 11947 40273 ... 47490 75384 22135 000 000	USB	(AB/MPJ)
E07	23-12	1450	8126	Sat	674 674 674 1 285 58 285 58 35181 11947 40273 ... 47490 75384 22135 000 000	USB	(AB/MPJ)
E07	24-12	0700	9326	Sun	345 345 345 000	USB	(AB)
E07	24-12	0720	10426	Sun	345 345 345 000	USB	(AB)
E07	26-12	1500	13539	Tue	512 512 512 000	USB	(AB)
E07	26-12	1520	12139	Tue	512 512 512 000	USB	(AB)
E07	28-12	1410	10226	Thu	674 674 674 000	USB	(AB/MPJ)
E07	28-12	1430	9226	Thu	674 674 674 000	USB	(AB/MPJ)
E07	29-12	1500	13539	Fri	512 512 512 000	USB	(AB-POL)
E07	29-12	1520	12139	Fri	512 512 512 000	USB	(AB)
E07	30-12	1400	9143	Sat	116 116 116 000	USB	(AB)
E07	30-12	1410	10226	Sat	674 674 674 000	USB	(AB)
E07	30-12	1420	8143	Sat	116 116 116 000	USB	(AB)
E07	30-12	1430	9226	Sat	674 674 674 000	USB	(AB)
E07	31-12	0700	9326	Sun	345 345 345 000	USB	(AB)
E07	31-12	0720	10426	Sun	345 345 345 000	USB	(AB)
E11	1-12	0700	6804	Fri	570/00 Out	USB	(AB)
E11	1-12	0715	9130	Fri	637/00 Out	USB	(AB)
E11	1-12	0745	17378	Fri	340/00 Out	USB	(AB)
E11	1-12	0820	6986	Fri	430/00 Out	USB	(AB)
E11	1-12	0830	23353	Fri	188/00 Out	USB	(AB-POL)

E11	1-12	1000	9079	Fri	308/00 Out	USB	(AB)
E11	1-12	1715	5082	Fri	976/00 Out	USB	(AB/MPJ)
E11	1-12	1815	6849	Fri	922/00 Out	USB	(AB/sse)
E11	1-12	1910	10487	Fri	618/00 Out	USB	(AB-POL)
E11	2-12	0700	5371	Sat	490/00 Out	USB	(AB)
E11	2-12	1430	13363	Sat	910/00 Out	USB	(AB/Lac)
E11	2-12	1530	4909	Sat	369/00 Out	USB	(AB)
E11	2-12	1910	4505	Sat	396/00 Out	USB	(AB)
E11	3-12	0700	5371	Sun	497/00 Out	USB	(AB)
E11	3-12	1530	4909	Sun	365/00 Out	USB	(AB)
E11	3-12	1605	5432	Sun	238/00 Out	USB	(AB/sse)
E11	3-12	1745	12924	Sun	244/00 Out	USB	(AB)
E11	3-12	1815	6849	Sun	920/00 Out	USB	(AB)
E11	3-12	1910	10487	Sun	616/00 Out	USB	(AB)
E11	3-12	2000	5082	Sun	520/00 Out	USB	(AB)
E11	4-12	0450	4909	Mon	413/00 Out	USB	(AB)
E11	4-12	0745	10213	Mon	269/00 Out	USB	(AB)
E11	4-12	0900	11092	Mon	538/00 Out	USB	(AB)
E11	4-12	1045	11100	Mon	694/00 Out	USB	(AB)
E11	4-12	1300	4909	Mon	312/00 Out	USB	(AB-POL)
E11	4-12	1745	12924	Mon	247/00 Out	USB	(AB/MPJ)
E11	4-12	1900	6849	Mon	641/00 Out	USB	(AB/MPJ)
E11	5-12	0645	7840	Tue	512/00 Out	USB	(AB)
E11	5-12	0700	6804	Tue	579/00 Out	USB	(AB/Lac)
E11	5-12	0715	9130	Tue	633/00 Out	USB	(AB/Lac)
E11	5-12	0820	14611	Tue	134/00 Out	USB	(AB/Lac)
E11	5-12	0845	17378	Tue	155/00 Out	USB	(AB/Lac)
E11	5-12	1120	10513	Tue	121/00 Out	USB	(EL)
E11	5-12	1205	11559	Tue	465/00 Out	USB	(AB-POL/Lac)
E11	5-12	1430	13363	Tue	912/00 Out	USB	(AB)
E11	5-12	1605	5432	Tue	238/00 Out	USB	(AB)
E11	6-12	0745	17378	Wed	349/00 Out	USB	(AB-POL/Lac)
E11	6-12	0820	14611	Wed	138/00 Out	USB	(AB-POL)
E11	6-12	0900	11092	Wed	530/00 Out	USB	(AB)
E11	6-12	0930	7469	Wed	273/00 Out	USB	(AB)
E11	6-12	1045	11100	Wed	696/00 Out	USB	(AB)
E11	6-12	1205	11559	Wed	469/00 Out	USB	(AB)
E11	6-12	1715	5082	Wed	974/00 Out	USB	(AB/MPJ)
E11	6-12	1910	4505	Wed	394/00 Out	USB	(AB/MPJ)
E11	7-12	0645	7840	Thu	515/00 Out	USB	(AB)
E11	7-12	0820	6986	Thu	438/00 Out	USB	(AB)
E11	7-12	0845	17378	Thu	155/00 Out	USB	(AB)

E11	7-12	0930	7469	Thu	277/00 Out	USB	(AB)
E11	7-12	1300	4909	Thu	316/00 Out	USB	(AB)
E11	7-12	1530	5409	Thu	264/00 Out	USB	(AB/sse)
E11	7-12	1730	5779	Thu	414/00 Out	USB	(MPJ)
E11	7-12	1900	6849	Thu	649/00 Out	USB	(AB)
E11	7-12	2000	5082	Thu	520/00 Out	USB	(AB)
E11	8-12	0600	7850	Fri	358/00 Out	USB	(AB)
E11	8-12	0700	6804	Fri	577/00 Out	USB	(AB)
E11	8-12	0715	9130	Fri	634/00 Out	USB	(AB)
E11	8-12	0745	17378	Fri	340/00 Out	USB	(AB)
E11	8-12	0820	6986	Fri	439/00 Out	USB	(AB)
E11	8-12	1715	5082	Fri	975/00 Out	USB	(AB/MPJ)
E11	9-12	0700	5371	Sat	490/00 Out	USB	(AB)
E11	9-12	1430	13363	Sat	919/00 Out	USB	(AB)
E11	9-12	1910	4505	Sat	390/00 Out	USB	(AB)
E11	10-12	0600	7850	Sun	359/00 Out	USB	(AB)
E11	10-12	0700	5371	Sun	498/00 Out	USB	(AB)
E11	10-12	1605	5432	Sun	238/00 Out	USB	(AB)
E11	10-12	1910	10487	Sun	611/00 Out	USB	(AB-POL/MPJ)
E11	10-12	2000	5082	Sun	520/00 Out	USB	(AB)
E11	11-12	0315	8456	Mon	256/00 Out	USB	(TM)
E11	11-12	0450	4909	Mon	416/00 Out	USB	(AB)
E11	11-12	0715	11104	Mon	755/00 Out	USB	(AB)
E11	11-12	0745	10213	Mon	260/00 Out	USB	(AB)
E11	11-12	0830	23353	Mon	180/00 Out	USB	(AB-POL)
E11	11-12	0845	12067	Mon	718/00 Out	USB	(AB)
E11	11-12	0900	11092	Mon	536/00 Out	USB	(AB)
E11	11-12	1045	11100	Mon	694/00 Out	USB	(AB)
E11	11-12	1745	12924	Mon	244/00 Out	USB	(AB)
E11	11-12	1900	6849	Mon	644/00 Out	USB	(AB)
E11	12-12	0700	6804	Tue	571/00 Out	USB	(AB)
E11	12-12	0715	9130	Tue	635/00 Out	USB	(AB)
E11	12-12	0745	13908	Tue	221/00 Out	USB	(AB)
E11	12-12	1000	9079	Tue	304/00 Out	USB	(AB)
E11	12-12	1205	11559	Tue	464/00 Out	USB	(AB)
E11	12-12	1430	13363	Tue	918/00 Out	USB	(AB)
E11	12-12	1605	5432	Tue	235/00 Out	USB	(AB)
E11	13-12	0315	8456	Wed	250/00 Out	USB	(TM)
E11	13-12	0600	23004	Wed	944/00 Out	USB	(AB-POL)
E11	13-12	0715	11104	Wed	752/00 Out	USB	(AB)
E11	13-12	0845	12067	Wed	713/00 Out	USB	(AB)
E11	13-12	0900	11092	Wed	536/00 Out	USB	(AB)

E11	13-12	0930	7469	Wed	279/00 Out	USB	(AB)
E11	13-12	1045	11100	Wed	691/00 Out	USB	(AB)
E11	13-12	1205	11559	Wed	464/00 Out	USB	(AB)
E11	13-12	1715	5082	Wed	975/00 Out	USB	(AB)
E11	13-12	1910	4505	Wed	395/00 Out	USB	(AB)
E11	14-12	0645	7840	Thu	510/00 Out	USB	(AB)
E11	14-12	0745	13908	Thu	227/00 Out	USB	(AB-POL)
E11	14-12	0930	7469	Thu	275/00 Out	USB	(AB)
E11	14-12	1530	5409	Thu	260/00 Out	USB	(AB)
E11	14-12	1730	5779	Thu	411/00 Out	USB	(AB/MPJ)
E11	14-12	1900	6849	Thu	644/00 Out	USB	(AB)
E11	14-12	2000	5082	Thu	525/00 Out	USB	(AB)
E11	15-12	0600	7850	Fri	355/00 Out	USB	(AB)
E11	15-12	0700	6804	Fri	576/00 Out	USB	(AB)
E11	15-12	0715	9130	Fri	635/00 Out	USB	(AB)
E11	15-12	0830	23353	Fri	183/00 Out	USB	(AB-POL)
E11	15-12	1000	9079	Fri	306/00 Out	USB	(AB)
E11	15-12	1715	5082	Fri	975/00 Out	USB	(AB)
E11	15-12	1815	6849	Fri	926/00 Out	USB	(AB-POL)
E11	15-12	1910	10487	Fri	610/00 Out	USB	(AB-POL)
E11	16-12	0700	5371	Sat	492/00 Out	USB	(AB)
E11	16-12	1430	13363	Sat	917/00 Out	USB	(AB)
E11	16-12	1530	4909	Sat	366/00 Out	USB	(AB)
E11	16-12	1910	4505	Sat	392/00 Out	USB	(AB)
E11	17-12	0600	7850	Sun	359/00 Out	USB	(AB)
E11	17-12	0700	5371	Sun	496/00 Out	USB	(AB)
E11	17-12	1530	4909	Sun	367/00 Out	USB	(AB)
E11	17-12	1605	5432	Sun	232/00 Out	USB	(AB)
E11	17-12	1815	6849	Sun	926/00 Out	USB	(AB-POL)
E11	17-12	1910	10487	Sun	617/00 Out	USB	(AB-POL)
E11	17-12	2000	5082	Sun	527/00 Out	USB	(AB)
E11	18-12	0600	23004	Mon	945/00 Out	USB	(AB-POL)
E11	18-12	0715	11104	Mon	750/00 Out	USB	(AB)
E11	18-12	0845	12067	Mon	718/00 Out	USB	(AB)
E11	18-12	1045	11100	Mon	693/00 Out	USB	(AB)
E11	18-12	1300	4909	Mon	319/00 Out	USB	(AB-POL)
E11	19-12	0645	7840	Tue	514/00 Out	USB	(AB)
E11	19-12	0700	6804	Tue	579/00 Out	USB	(AB)
E11	19-12	0745	13908	Tue	220/00 Out	USB	(AB)
E11	19-12	0820	14611	Tue	133/00 Out	USB	(AB)
E11	19-12	0845	17378	Tue	150/00 Out	USB	(AB)
E11	19-12	1000	9079	Tue	302/00 Out	USB	(AB)

E11	19-12	1430	13363	Tue	911/00 Out	USB	(AB)
E11	20-12	0600	23004	Wed	942/00 Out	USB	(AB-POL)
E11	20-12	0715	11104	Wed	752/00 Out	USB	(AB)
E11	20-12	0745	17378	Wed	347/00 Out	USB	(AB-POL)
E11	20-12	0820	14611	Wed	135/00 Out	USB	(AB)
E11	20-12	0845	12067	Wed	711/00 Out	USB	(AB)
E11	20-12	0930	7469	Wed	275/00 Out	USB	(AB)
E11	20-12	1045	11100	Wed	693/00 Out	USB	(AB)
E11	20-12	1910	4505	Wed	394/00 Out	USB	(AB/MPJ)
E11	21-12	0505	12153	Thu	335/00 Out	USB	(Anon)
E11	21-12	0645	7840	Thu	511/00 Out	USB	(AB)
E11	21-12	0745	13908	Thu	228/00 Out	USB	(AB-POL)
E11	21-12	0820	6986	Thu	435/00 Out	USB	(AB)
E11	21-12	0845	17378	Thu	159/00 Out	USB	(AB)
E11	21-12	0930	7469	Thu	277/00 Out	USB	(AB)
E11	21-12	1300	4909	Thu	310/00 Out	USB	(AB-POL/MPJ)
E11	21-12	2000	5082	Thu	527/00 Out	USB	(AB)
E11	22-12	0600	7850	Fri	352/00 Out	USB	(AB)
E11	22-12	0700	6804	Fri	571/00 Out	USB	(AB)
E11	22-12	0745	17378	Fri	343/00 Out	USB	(AB)
E11	22-12	0820	6986	Fri	436/00 Out	USB	(AB)
E11	22-12	0830	23353	Fri	185/00 Out	USB	(AB-POL)
E11	22-12	1000	9079	Fri	306/00 Out	USB	(AB)
E11	22-12	1815	6849	Fri	922/00 Out	USB	(AB-POL)
E11	22-12	1910	10487	Fri	610/00 Out	USB	(AB-POL/MPJ)
E11	23-12	0700	5371	Sat	491/00 Out	USB	(AB)
E11	23-12	1430	13363	Sat	914/00 Out	USB	(AB)
E11	23-12	1530	4909	Sat	365/00 Out	USB	(AB)
E11	23-12	1910	4505	Sat	391/00 Out	USB	(AB/MPJ)
E11	24-12	0600	7850	Sun	350/00 Out	USB	(AB)
E11	24-12	0700	5371	Sun	497/00 Out	USB	(AB)
E11	24-12	1530	4909	Sun	366/00 Out	USB	(AB)
E11	24-12	1815	6849	Sun	929/00 Out	USB	(AB)
E11	24-12	1910	10487	Sun	617/00 Out	USB	(AB-POL)
E11	24-12	2000	5082	Sun	525/00 Out	USB	(AB)
E11	25-12	0315	8456	Mon	251/00 Out	USB	(TM)
E11	25-12	0450	4909	Mon	410/00 Out	USB	(AB)
E11	25-12	0600	23004	Mon	946/00 Out	USB	(AB-POL)
E11	25-12	0715	11104	Mon	755/00 Out	USB	(AB)
E11	25-12	0745	10213	Mon	261/00 Out	USB	(AB/Lac)
E11	25-12	0830	23353	Mon	188/00 Out	USB	(AB-POL/Lac)
E11	25-12	0845	12067	Mon	711/00 Out	USB	(AB/Lac)

E11	25-12	0900	11092	Mon	533/00 Out	USB	(AB/Lac)
E11	25-12	1300	4909	Mon	312/00 Out	USB	(AB-POL)
E11	25-12	1900	6849	Mon	649/00 Out	USB	(AB)
E11	26-12	0645	7840	Tue	517/00 Out	USB	(AB/Lac)
E11	26-12	0715	9130	Tue	630/00 Out	USB	(AB)
E11	26-12	0745	13908	Tue	220/00 Out	USB	(AB)
E11	26-12	0820	14611	Tue	132/00 Out	USB	(AB)
E11	26-12	0845	17378	Tue	152/00 Out	USB	(AB)
E11	26-12	1000	9079	Tue	302/00 Out	USB	(AB)
E11	26-12	1205	11559	Tue	462/00 Out	USB	(AB)
E11	26-12	1605	5432	Tue	235/00 Out	USB	(AB)
E11	27-12	0315	8456	Wed	252/00 Out	USB	(TM)
E11	27-12	0600	23004	Wed	940/00 Out	USB	(AB-POL)
E11	27-12	0715	11104	Wed	757/00 Out	USB	(AB)
E11	27-12	0745	17378	Wed	346/00 Out	USB	(AB-POL/Lac)
E11	27-12	0820	14611	Wed	131/00 Out	USB	(AB/Lac)
E11	27-12	0845	12067	Wed	710/00 Out	USB	(AB/Lac)
E11	27-12	0900	11092	Wed	538/00 Out	USB	(AB/Lac)
E11	27-12	1205	11559	Wed	465/00 Out	USB	(AB)
E11	27-12	1715	5082	Wed	970/00 Out	USB	(AB)
E11	28-12	0645	7840	Thu	518/00 Out	USB	(AB)
E11	28-12	0745	13908	Thu	228/00 Out	USB	(AB-POL)
E11	28-12	0820	6986	Thu	434/00 Out	USB	(AB)
E11	28-12	0845	17378	Thu	150/00 Out	USB	(AB)
E11	28-12	1300	4909	Thu	319/00 Out	USB	(AB-POL/MPJ)
E11	28-12	1530	5409	Thu	261/00 Out	USB	(AB)
E11	28-12	1730	5779	Thu	410/00 Out	USB	(AB/MPJ)
E11	28-12	1900	6849	Thu	646/00 Out	USB	(AB/MPJ)
E11	29-12	0600	7850	Fri	352/00 Out	USB	(AB)
E11	29-12	0715	9130	Fri	631/00 Out	USB	(AB)
E11	29-12	0745	17378	Fri	346/00 Out	USB	(AB)
E11	29-12	0820	6986	Fri	434/00 Out	USB	(AB)
E11	29-12	0830	23353	Fri	189/00 Out	USB	(AB-POL)
E11	29-12	1000	9079	Fri	306/00 Out	USB	(AB)
E11	29-12	1715	5082	Fri	978/00 Out	USB	(AB)
E11	29-12	1815	6849	Fri	926/00 Out	USB	(AB)
E11	30-12	1530	4909	Sat	360/00 Out	USB	(AB)
E11	31-12	0600	7850	Sun	355/00 Out	USB	(AB)
E11	31-12	1530	4909	Sun	360/00 Out	USB	(AB)
E11	31-12	1605	5432	Sun	232/00 Out	USB	(AB)
E11	31-12	1745	12924	Sun	244/00 Out	USB	(AB)
E11	31-12	1815	6849	Sun	925/00 Out	USB	(AB)

E11a	1-12	0600	7850	Fri	352/33 Attention 14884 76864 50044 ... 85399 81447 34928 Attention (msg rptd) Out	USB	(AB)
E11a	3-12	0600	7850	Sun	352/33 Attention 14884 76864 50044 ... 85399 81447 34928 Attention (msg rptd) Out	USB	(sse)
E11a	4-12	0715	11104	Mon	750/38 Attention 44414 55756 67595 ... 54586 97785 86721 Attention (msg rptd) Out	USB	(AB)
E11a	4-12	0830	23353	Mon	185/26 Attention 27476 89737 47357 ... 60724 94565 90410 Attention (msg rptd) Out	USB	(AB)
E11a	4-12	0845	12067	Mon	719/37 Attention 01668 69192 14842 ... 82075 62598 03618 Attention (msg rptd) Out	USB	(AB)
E11a	5-12	0745	13908	Tue	221/32 Attention 85318 24724 52402 ... 77322 71460 66242 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	5-12	1000	9079	Tue	305/21 Attention 77824 50169 92479 ... 81576 52084 60995 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	6-12	0600	23004	Wed	948/40 Attention 46047 81929 35401 ... 00974 89318 81081 Attention (msg rptd) Out	USB	(AB-POL)
E11a	6-12	0715	11104	Wed	750/38 Attention 44414 55756 67595 ... 54586 97785 86721 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	6-12	0845	12067	Wed	719/37 Attention 01668 69192 14842 ... 82075 62598 03618 Attention (msg rptd) Out	USB	(Lac)
E11a	7-12	0745	13908	Thu	221/32 Attention 85318 24724 52402 ... 77322 71460 66242 Attention (msg rptd) Out	USB	(AB)
E11a	8-12	0830	23353	Fri	185/26 Attention 27476 89737 47357 ... 60724 94565 90410 Attention (msg rptd) Out	USB	(AB-POL)
E11a	8-12	1000	9079	Fri	305/21 Attention 77824 50169 92479 ... 81576 52084 60995 Attention (msg rptd) Out	USB	(AB)
E11a	8-12	1815	6849	Fri	927/38 Attention 82555 20807 19901 ... 40343 49004 71724 Attention (msg rptd) Out	USB	(AB-POL)
E11a	9-12	1530	4909	Sat	363/40 Attention 34300 26227 02706 ... 07515 85613 97728 Attention (msg rptd) Out	USB	(AB)
E11a	10-12	1530	4909	Sun	363/40 Attention 34300 26227 02706 ... 07515 85613 97728 Attention (msg rptd) Out	USB	(AB)
E11a	10-12	1815	6849	Sun	927/38 Attention 82555 20807 19901 ... 40343 49004 71724 Attention (msg rptd) Out	USB	(AB-POL)
E11a	11-12	1300	4909	Mon	315/35 Attention 33957 03230 37238 ... 35127 76971 68811 Attention (msg rptd) Out	USB	(AB-POL/sse)
E11a	12-12	0645	7840	Tue	510/33 Attention 47593 89395 60142 ... 63717 78115 80854 Attention (msg rptd) Out	USB	(AB)
E11a	12-12	0820	14611	Tue	134/38 Attention 99314 93367 14252 ... 14352 32051 02649 Attention (msg rptd) Out	USB	(AB)
E11a	12-12	0845	17378	Tue	157/26 Attention 33197 08482 87989 ... 50110 31230 92066 Attention (msg rptd) Out	USB	(AB)
E11a	13-12	0745	17378	Wed	349/36 Attention 52318 29268 45360 ... 50654 40041 08659 Attention (msg rptd) Out	USB	(AB-POL)
E11a	13-12	0820	14611	Wed	134/38 Attention 99314 93367 14252 ... 14352 32051 02649 Attention (msg rptd) Out	USB	(AB)
E11a	14-12	0820	6986	Thu	430/32 Attention 38694 29309 96134 ... 37847 82475 86415 Attention (msg rptd) Out	USB	(AB)
E11a	14-12	0845	17378	Thu	157/26 Attention 33197 08482 87989 ... 50110 31230 92066 Attention (msg rptd) Out	USB	(AB-POL)
E11a	14-12	1300	4909	Thu	315/35 Attention 33957 03230 37238 ... 35127 76971 68811 Attention (msg rptd) Out	USB	(AB)
E11a	15-12	0745	17378	Fri	349/36 Attention 52318 29268 45360 ... 50654 40041 08659 Attention (msg rptd) Out	USB	(AB)
E11a	15-12	0820	6986	Fri	430/32 Attention 38694 29309 96134 ... 37847 82475 86415 Attention (msg rptd) Out	USB	(AB)
E11a	18-12	0315	8456	Mon	250/38 Attention 42033 60223 94284 ... 85411 86045 15250 Attention (msg rptd) Out	USB	(TM)
E11a	18-12	0450	4909	Mon	415/30 Attention 59282 71414 70511 ... 32956 54620 43769 Attention (msg rptd) Out	USB	(AB)
E11a	18-12	0745	10213	Mon	269/34 Attention 94921 81855 31828 ... 90093 25012 18661 Attention (msg rptd) Out	USB	(AB)
E11a	18-12	0900	11092	Mon	538/37 Attention 17325 31838 32752 ... 85098 02960 30062 Attention (msg rptd) Out	USB	(AB)
E11a	18-12	1900	6849	Mon	643/39 Attention 07611 76121 44818 ... 76441 40674 19532 Attention (msg rptd) Out	USB	(AB)
E11a	19-12	0715	9130	Tue	630/34 Attention 36689 01011 89754 ... 95369 25764 60442 Attention (msg rptd) Out	USB	(AB)
E11a	19-12	1205	11559	Tue	461/40 Attention 00026 39777 90979 ... 88950 21205 17532 Attention (msg rptd) Out	USB	(AB)
E11a	19-12	1605	5432	Tue	236/35 Attention 33426 29972 92592 ... 99530 99414 07714 Attention (msg rptd) Out	USB	(AB/Tel)
E11a	20-12	0315	8456	Wed	250/38 Attention 42033 60223 94284 ... 85411 86045 15250 Attention (msg rptd) Out	USB	(TM)
E11a	20-12	0900	11092	Wed	538/37 Attention 17325 31838 32752 ... 85098 02960 30062 Attention (msg rptd) Out	USB	(AB)
E11a	20-12	1205	11559	Wed	461/40 Attention 00026 39777 90979 ... 88950 21205 17532 Attention (msg rptd) Out	USB	(AB)
E11a	20-12	1715	5082	Wed	978/34 Attention 50691 00519 82096 ... 64964 11779 95308 Attention (msg rptd) Out	USB	(AB)
E11a	21-12	1530	5409	Thu	269/34 Attention 94921 81855 31828 ... 90093 25012 18661 Attention (msg rptd) Out	USB	(AB/MPJ)
E11a	21-12	1730	5779	Thu	415/30 Attention 59282 71414 70511 ... 32956 54620 43769 Attention (msg rptd) Out	USB	(AB/sse)

E11a	21-12	1900	6849	Thu	643/39 Attention 07611 76121 44818 ... 76441 40674 19532 Attention (msg rptd) Out	USB	(AB)
E11a	22-12	0715	9130	Fri	630/34 Attention 36689 01011 89754 ... 95369 25764 60442 Attention (msg rptd) Out	USB	(AB)
E11a	22-12	1715	5082	Fri	978/34 Attention 50691 00519 82096 ... 64964 11779 95308 Attention (msg rptd) Out	USB	(MPJ)
E11a	24-12	1605	5432	Sun	236/35 Attention 33426 29972 92592 ... 99530 99414 07714 Attention (msg rptd) Out	USB	(AB)
E11a	24-12	1745	12924	Sun	242/33 Attention 75204 11386 11415 ... 43674 34252 09613 Attention (msg rptd) Out	USB	(AB)
E11a	25-12	1045	11100	Mon	690/33 Attention 99121 00493 44490 ... 54637 26653 51137 Attention (msg rptd) Out	USB	(AB)
E11a	25-12	1045	11100	Mon	690/33 Attention 99121 00493 44490 ... 54637 26653 51137 Attention (msg rptd) Out	USB	(Lac)
E11a	26-12	0700	6804	Tue	573/40 Attention 23478 66048 80833 ... 29134 92465 55443 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	26-12	0700	6804	Tue	573/40 Attention 23478 66048 80833 ... 29134 92465 55443 Attention (msg rptd) Out	USB	(Lac)
E11a	26-12	1430	13363	Tue	918/40 Attention 96489 28495 79993 ... 21558 28136 52432 Attention (msg rptd) Out	USB	(AB)
E11a	27-12	0930	7469	Wed	275/32 Attention 59371 80571 25871 ... 50987 65142 00546 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	27-12	1045	11100	Wed	690/33 Attention 99121 00493 44490 ... 54637 26653 51137 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	27-12	1910	4505	Wed	390/31 Attention 80403 83645 82225 ... 52575 65647 21033 Attention (msg rptd) Out	USB	(AB/MPJ)
E11a	28-12	0930	7469	Thu	275/32 Attention 59371 80571 25871 ... 50987 65142 00546 Attention (msg rptd) Out	USB	(AB)
E11a	28-12	2000	5082	Thu	525/33 Attention 52304 33160 64838 ... 39406 51143 94930 Attention (msg rptd) Out	USB	(AB)
E11a	29-12	0700	6804	Fri	573/40 Attention 23478 66048 80833 ... 29134 92465 55443 Attention (msg rptd) Out	USB	(AB)
E11a	29-12	1910	10487	Fri	618/35 Attention 54177 38759 09502 ... 95574 68171 68249 Attention (msg rptd) Out	USB	(AB-POL)
E11a	30-12	0700	5371	Sat	492/36 Attention 30150 81710 18239 ... 36823 49550 69408 Attention (msg rptd) Out	USB	(AB)
E11a	30-12	1430	13363	Sat	918/40 Attention 96489 28495 79993 ... 21558 28136 52432 Attention (msg rptd) Out	USB	(AB)
E11a	30-12	1910	4505	Sat	390/31 Attention 80403 83645 82225 ... 52575 65647 21033 Attention (msg rptd) Out	USB	(AB)
E11a	31-12	0700	5371	Sun	492/36 Attention 30150 81710 18239 ... 36823 49550 69408 Attention (msg rptd) Out	USB	(AB)
E11a	31-12	1910	10487	Sun	618/35 Attention 54177 38759 09502 ... 95574 68171 68249 Attention (msg rptd) Out	USB	(AB-POL)
E11a	31-12	2000	5082	Sun	525/33 Attention 52304 33160 64838 ... 39406 51143 94930 Attention (msg rptd) Out	USB	(AB)
EGY	20-12	1231	17444	Wed	99901: MFA Cairo wkg 44405: Egyptian embassy Islamabad	CODAN	(AB)
EGY	20-12	1231	17445.7	Wed	MFA Cairo clg OOV: Egyptian embassy Islamabad	SITOR-A 100/170	(AB)
EGY	31-12	0752	16223.7	Sun	Egyptian diplo i.p. Ended with ZKE KDDR	SITOR-A 100/170	(AB)
F01	6-12	1940	7684	Wed	5761 00000 +++++ +++++	FSK 200/500	(AB-POL/HFD)
F01	6-12	1950	5326	Wed	5761 00000 +++++ +++++	FSK 200/500	(AB/HFD)
F01	6-12	2000	4029	Wed	5761 00000 +++++ +++++	FSK 200/500	(AB/HFD)
F01	11-12	1015	12164	Mon	29706 15824 74520 ... 49379 57090 25413 00000 +++++ +++++	FSK 200/500	(AB)
F01	11-12	1025	10336	Mon	29706 15824 74520 ... 49379 57090 25413 00000 +++++ +++++	FSK 200/500	(AB)
F01	11-12	1035	8016	Mon	29706 15824 74520 ... 49379 57090 25413 00000 +++++ +++++	FSK 200/500	(AB-RUS)
F01	12-12	1015	12164	Tue	Two messages	FSK 200/500	(AB)
F01	12-12	1025	10336	Tue	Two messages	FSK 200/500	(AB)
F01	12-12	1035	8016	Tue	Two messages	FSK 200/500	(AB-RUS)
F01	13-12	1015	12164	Wed	40559 27177 33827 ... 98834 91818 28405 00000 +++++	FSK 200/500	(AB/HFD)
F01	13-12	1025	10336	Wed	40559 27177 33827 ... 98834 91818 28405 00000 +++++	FSK 200/500	(AB/HFD)
F01	13-12	1035	8016	Wed	40559 27177 33827 ... 98834 91818 28405 00000 +++++	FSK 200/500	(AB-RUS/HFD)
F01	14-12	1015	12164	Thu	Two messages	FSK 200/500	(AB)
F01	14-12	1025	10336	Thu	Two messages	FSK 200/500	(AB)
F01	14-12	1035	8016	Thu	Two messages	FSK 200/500	(AB-RUS)
F01	15-12	1015	12164	Fri	5761 00000 +++++ +++++	FSK 200/500	(AB)

F01	15-12	1025	10336	Fri	5761 00000 +++++ +++++	FSK 200/500	(AB)
F01	15-12	1035	8016	Fri	5761 00000 +++++ +++++	FSK 200/500	(AB-RUS)
F01	18-12	1015	12164	Mon	40719 38821 84925 ... 19617 69188 31437 00000 +++++ +++++	FSK 200/500	(AB)
F01	18-12	1025	10336	Mon	40719 38821 84925 ... 19617 69188 31437 00000 +++++ +++++	FSK 200/500	(AB)
F01	18-12	1035	8016	Mon	40719 38821 84925 ... 19617 69188 31437 00000 +++++ +++++	FSK 200/500	(AB-RUS)
F01	19-12	1015	12164	Tue	Two messages	FSK 200/500	(AB)
F01	19-12	1025	10336	Tue	Two messages	FSK 200/500	(AB)
F01	19-12	1035	8016	Tue	Two messages	FSK 200/500	(AB-RUS)
F01	20-12	1015	12164	Wed	03251 11889 31025 ... 24427 25616 34413 00000 +++++ +++++	FSK 200/500	(AB)
F01	20-12	1025	10336	Wed	03251 11889 31025 ... 24427 25616 34413 00000 +++++ +++++	FSK 200/500	(AB)
F01	20-12	1035	8016	Wed	03251 11889 31025 ... 24427 25616 34413 00000 +++++ +++++	FSK 200/500	(AB-RUS)
F01	21-12	1015	12164	Thu	Two messages	FSK 200/500	(AB)
F01	21-12	1025	10336	Thu	Two messages	FSK 200/500	(AB)
F01	21-12	1035	8016	Thu	Two messages	FSK 200/500	(AB-RUS)
F01	22-12	1015	12164	Fri	5761 00000 +++++ +++++	FSK 200/500	(AB)
F01	22-12	1025	10336	Fri	5761 00000 +++++ +++++	FSK 200/500	(AB)
F01	22-12	1035	8016	Fri	5761 00000 +++++ +++++	FSK 200/500	(AB-RUS)
F01	25-12	1015	12164	Mon	23652 23720 31319 ... 87069 13194 37421 00000 +++++ +++++ +++++	FSK 200/500	(AB)
F01	25-12	1025	10336	Mon	23652 23720 31319 ... 87069 13194 37421 00000 +++++ +++++ +++++	FSK 200/500	(AB)
F01	25-12	1035	8016	Mon	23652 23720 31319 ... 87069 13194 37421 00000 +++++ +++++ +++++	FSK 200/500	(AB-RUS)
F01	26-12	1015	12164	Tue	Two messages	FSK 200/500	(AB)
F01	26-12	1025	10336	Tue	Two messages	FSK 200/500	(AB)
F01	26-12	1035	8016	Tue	Two messages	FSK 200/500	(AB-RUS)
F01	27-12	1015	12164	Wed	27381 41904 23761 ... 90473 14605 40403 00000 +++++ +++++ +++++	FSK 200/500	(AB)
F01	27-12	1025	10336	Wed	27381 41904 23761 ... 90473 14605 40403 00000 +++++ +++++ +++++	FSK 200/500	(AB)
F01	27-12	1035	8016	Wed	27381 41904 23761 ... 90473 14605 40403 00000 +++++ +++++ +++++	FSK 200/500	(AB-RUS)
F01	28-12	1015	12164	Thu	Two messages	FSK 200/500	(AB)
F01	28-12	1025	10336	Thu	Two messages	FSK 200/500	(AB)
F01	28-12	1035	8016	Thu	Two messages	FSK 200/500	(AB-RUS)
F01	29-12	1015	12164	Fri	5761 00000 +++++ +++++	FSK 200/500	(AB)
F01	29-12	1025	10336	Fri	5761 00000 +++++ +++++	FSK 200/500	(AB)
F01	29-12	1035	8016	Fri	5761 00000 +++++ +++++	FSK 200/500	(AB-RUS)
F01	29-12	2230	18169	Fri	11177 00116 91653 28052 01649	FSK 200/500	(AB-USA)
F01	29-12	2240	15765	Fri	11177 00116 91653 28052 01649	FSK 200/500	(AB-USA)
F02	1-12	0830	15626	Fri	Russian domestic net	MFSK-4/150Bd/4000Hz	(AB)
F02	1-12	0833	14837	Fri	Russian domestic net	MFSK-4/150Bd/4000Hz	(AB)
F02	1-12	0845	15623	Fri	Russian domestic net	MFSK-4/150Bd/4000Hz	(AB)
F02	8-12	0830	15626	Fri	Russian domestic net	MFSK-4/150Bd/4000Hz	(AB)
F02	8-12	0834	14837	Fri	Russian domestic net	MFSK-4/150Bd/4000Hz	(AB)
F02	12-12	0830	15626	Tue	Russian domestic net	MFSK-4/150Bd/4000Hz	(AB)
F02	15-12	0830	15626	Fri	Russian domestic net	MFSK-4/150Bd/4000Hz	(AB)
F02	15-12	0840	14857	Fri	Russian domestic net	MFSK-4/150Bd/4000Hz	(AB)

F02	15-12	0853	14857	Fri	Russian domestic net. On top of the one that started at 0840z but much stronger	MFSK-4/150Bd/4000Hz	(AB)
F02	19-12	0830	15626	Tue	Russian domestic net	MFSK-4/150Bd/4000Hz	(AB)
F02	22-12	0830	15626	Fri	Russian domestic net	MFSK-4/150Bd/4000Hz	(AB)
F02	22-12	0845	11463	Fri	Russian domestic net	MFSK-4/150Bd/4000Hz	(AB)
F02	26-12	0725	9045	Tue	Russian domestic net. Test	MFSK-4/150Bd/4000Hz	(AB)
F02	26-12	0734	9045	Tue	Russian domestic net. Test	MFSK-4/150Bd/4000Hz	(AB)
F02	26-12	0830	15626	Tue	Russian domestic net	MFSK-4/150Bd/4000Hz	(AB)
F03j	4-12	0810	26472	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	4-12	0815	26472	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	4-12	1010	12089	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	4-12	1015	12089	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	6-12	0915	5946	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	6-12	0920	5946	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	6-12	0950	4828	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	6-12	0955	4828	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	6-12	1010	12089	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	6-12	1015	12089	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	6-12	1030	14398	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	6-12	1035	14398	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	7-12	0800	8088	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	7-12	0805	8088	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	7-12	0915	5946	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	7-12	0920	5946	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	8-12	0800	8088	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	8-12	0805	8088	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	8-12	0810	26472	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	8-12	0815	26472	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	11-12	0810	26472	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	11-12	0815	26472	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	11-12	0950	4828	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	11-12	0955	4828	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	11-12	1010	12089	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	11-12	1015	12089	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	11-12	1030	14398	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	11-12	1035	14398	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	13-12	0915	5946	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	13-12	0920	5946	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	13-12	0950	4828	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	13-12	0955	4828	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	13-12	1010	12089	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	13-12	1015	12089	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	13-12	1030	14398	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)

F03j	13-12	1035	14398	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	14-12	0800	8088	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	14-12	0805	8088	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	14-12	0915	5946	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	14-12	0920	5946	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	15-12	0800	8088	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	15-12	0805	8088	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	15-12	0810	26472	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	15-12	0815	26472	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	18-12	0810	26472	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	18-12	0815	26472	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	18-12	0950	4828	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	18-12	0955	4828	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	18-12	1010	12089	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	18-12	1015	12089	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	18-12	1030	14398	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	18-12	1035	14398	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	20-12	0915	5946	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	20-12	0920	5946	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	20-12	0950	4828	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	20-12	0955	4828	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	20-12	1010	12089	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	20-12	1015	12089	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	20-12	1030	14398	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	20-12	1035	14398	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	21-12	0800	8088	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	21-12	0805	8088	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	21-12	0915	5946	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	21-12	0920	5946	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	22-12	0800	8088	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	22-12	0805	8088	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	22-12	0810	26472	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	22-12	0815	26472	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	25-12	0950	4828	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	25-12	0955	4828	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	25-12	1010	12089	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	25-12	1015	12089	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	25-12	1030	14398	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	25-12	1035	14398	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	27-12	0915	5946	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	27-12	0920	5946	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	27-12	0950	4828	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)

F03j	27-12	0955	4828	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	27-12	1010	12089	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	27-12	1015	12089	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	27-12	1030	14398	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	27-12	1035	14398	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	28-12	0800	8088	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	28-12	0805	8088	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	28-12	0915	5946	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	28-12	0920	5946	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	29-12	0800	8088	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	29-12	0805	8088	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03I	1-12	0930	6304	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	1-12	0935	6304	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	1-12	0945	6480	Fri	Polish intel.	FSK-2 100Bd/200Hz+700Hz/448bp	(AB)
F03I	1-12	0950	6480	Fri	Polish intel.	FSK-2 100Bd/200Hz+700Hz/448bp	(AB)
F03I	4-12	0735	8800	Mon	Polish intel.	FSK-2 100Bd/200Hz+700Hz/448bp	(AB)
F03I	4-12	0740	8800	Mon	Polish intel.	FSK-2 100Bd/200Hz+700Hz/448bp	(AB)
F03I	4-12	0930	6304	Mon	Polish intel.	FSK-2 100Bd/200Hz+700Hz/448bp	(AB)
F03I	4-12	0935	6304	Mon	Polish intel.	FSK-2 100Bd/200Hz+700Hz/448bp	(AB)
F03I	5-12	0835	17120	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	5-12	0840	17120	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	5-12	0945	6480	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	5-12	0950	6480	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	6-12	0630	13424	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	6-12	0635	13424	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	7-12	0735	8800	Thu	Polish intel.	FSK-2 100Bd/200Hz+700Hz/448bp	(AB)
F03I	7-12	0740	8800	Thu	Polish intel.	FSK-2 100Bd/200Hz+700Hz/448bp	(AB)
F03I	7-12	0835	17120	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	7-12	0840	17120	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	8-12	0930	6304	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	8-12	0935	6304	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	8-12	0945	6480	Fri	Polish intel.	FSK-2 100Bd/200Hz+700Hz/448bp	(AB)
F03I	8-12	0950	6480	Fri	Polish intel.	FSK-2 100Bd/200Hz+700Hz/448bp	(AB)
F03I	11-12	0630	13424	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	11-12	0635	13424	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	11-12	0735	8800	Mon	Polish intel.	FSK-2 100Bd/200Hz+700Hz/448bp	(AB)
F03I	11-12	0740	8800	Mon	Polish intel.	FSK-2 100Bd/200Hz+700Hz/448bp	(AB)
F03I	11-12	0930	6304	Mon	Polish intel.	FSK-2 100Bd/200Hz+700Hz/448bp	(AB)
F03I	11-12	0935	6304	Mon	Polish intel.	FSK-2 100Bd/200Hz+700Hz/448bp	(AB)
F03I	12-12	0615	8305	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	12-12	0620	8305	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	12-12	0835	17120	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)

F03I	12-12	0840	17120	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	12-12	0945	6480	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	12-12	0950	6480	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	13-12	0430	16530	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(TM)
F03I	13-12	0435	16530	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(TM)
F03I	13-12	0630	13424	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	13-12	0635	13424	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	14-12	0615	8305	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	14-12	0620	8305	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	14-12	0735	8800	Thu	Polish intel.	FSK-2 100Bd/200Hz+700Hz/448bp	(AB)
F03I	14-12	0740	8800	Thu	Polish intel.	FSK-2 100Bd/200Hz+700Hz/448bp	(AB)
F03I	14-12	0835	17120	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	14-12	0840	17120	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	15-12	0930	6304	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	15-12	0935	6304	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	15-12	0945	6480	Fri	Polish intel.	FSK-2 100Bd/200Hz+700Hz/448bp	(AB)
F03I	15-12	0950	6480	Fri	Polish intel.	FSK-2 100Bd/200Hz+700Hz/448bp	(AB)
F03I	18-12	0630	13424	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	18-12	0635	13424	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	18-12	0735	8800	Mon	Polish intel.	FSK-2 100Bd/200Hz+700Hz/448bp	(AB)
F03I	18-12	0740	8800	Mon	Polish intel.	FSK-2 100Bd/200Hz+700Hz/448bp	(AB)
F03I	18-12	0930	6304	Mon	Polish intel.	FSK-2 100Bd/200Hz+700Hz/448bp	(AB)
F03I	18-12	0935	6304	Mon	Polish intel.	FSK-2 100Bd/200Hz+700Hz/448bp	(AB)
F03I	19-12	0615	8305	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	19-12	0620	8305	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	19-12	0835	17120	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	19-12	0840	17120	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	19-12	0945	6480	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	19-12	0950	6480	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	20-12	0430	16530	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(TM)
F03I	20-12	0435	16530	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(TM)
F03I	20-12	0630	13424	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	20-12	0635	13424	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	21-12	0430	16530	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(TM)
F03I	21-12	0435	16530	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(TM)
F03I	21-12	0615	8305	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	21-12	0620	8305	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	21-12	0735	8800	Thu	Polish intel.	FSK-2 100Bd/200Hz+700Hz/448bp	(AB)
F03I	21-12	0740	8800	Thu	Polish intel.	FSK-2 100Bd/200Hz+700Hz/448bp	(AB)
F03I	21-12	0835	17120	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	21-12	0840	17120	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	22-12	0930	6304	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)

F03I	22-12	0935	6304	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	22-12	0945	6480	Fri	Polish intel.	FSK-2 100Bd/200Hz+700Hz/448bp	(AB)
F03I	22-12	0950	6480	Fri	Polish intel.	FSK-2 100Bd/200Hz+700Hz/448bp	(AB)
F03I	25-12	0630	13424	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	25-12	0635	13424	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	25-12	0735	8800	Mon	Polish intel.	FSK-2 100Bd/200Hz+700Hz/448bp	(AB)
F03I	25-12	0740	8800	Mon	Polish intel.	FSK-2 100Bd/200Hz+700Hz/448bp	(AB)
F03I	25-12	0930	6304	Mon	Polish intel.	FSK-2 100Bd/200Hz+700Hz/448bp	(AB)
F03I	25-12	0935	6304	Mon	Polish intel.	FSK-2 100Bd/200Hz+700Hz/448bp	(AB)
F03I	26-12	0615	8305	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	26-12	0620	8305	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	26-12	0835	17120	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	26-12	0840	17120	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	26-12	0945	6480	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	26-12	0950	6480	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	27-12	0630	13424	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	27-12	0635	13424	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	28-12	0615	8305	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	28-12	0620	8305	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	28-12	0735	8800	Thu	Polish intel.	FSK-2 100Bd/200Hz+700Hz/448bp	(AB)
F03I	28-12	0740	8800	Thu	Polish intel.	FSK-2 100Bd/200Hz+700Hz/448bp	(AB)
F03I	28-12	0835	17120	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	28-12	0840	17120	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	29-12	0930	6304	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	29-12	0935	6304	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	29-12	0945	6480	Fri	Polish intel.	FSK-2 100Bd/200Hz+700Hz/448bp	(AB)
F03I	29-12	0950	6480	Fri	Polish intel.	FSK-2 100Bd/200Hz+700Hz/448bp	(AB)
F06	1-12	0620	13974	Fri	11100 00000 75146 30069 03129 and 11100 00000 74631 30070 03129	FSK 200/1000	(AB)
F06	1-12	0630	12161	Fri	11100 00000 75146 30069 03129 and 11100 00000 74631 30070 03129	FSK 200/1000	(AB)
F06	1-12	0640	9923	Fri	11100 00000 75146 30069 03129 and 11100 00000 74631 30070 03129	FSK 200/1000	(AB)
F06	1-12	0700	11046	Fri	11166 70202 31928 30056 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	1-12	0710	9065	Fri	11166 70202 31928 30056 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	1-12	0720	7479	Fri	11166 70202 31928 30056 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	1-12	0800	17422	Fri	11100 00000 35641 30068 05029	FSK 200/1000	(AB)
F06	1-12	0810	14977	Fri	11100 00000 35641 30068 05029	FSK 200/1000	(AB)
F06	1-12	0820	12224	Fri	11100 00000 35641 30068 05029	FSK 200/1000	(AB)
F06	1-12	0900	18044	Fri	11100 00000 15873 30071 03429 and 11100 00000 24893 30072 03429	FSK 200/1000	(AB)
F06	1-12	0910	14973	Fri	11100 00000 15873 30071 03429 and 11100 00000 24893 30072 03429	FSK 200/1000	(AB)
F06	1-12	0920	11632	Fri	11100 00000 15873 30071 03429 and 11100 00000 24893 30072 03429	FSK 200/1000	(AB)
F06	1-12	1000	18039	Fri	11100 71225 46723 30015 00029 70569 00000	FSK 200/1000	(AB)
F06	1-12	1010	14904	Fri	11100 71225 46723 30015 00029 70569 00000	FSK 200/1000	(AB)
F06	1-12	1020	11547	Fri	11100 71225 46723 30015 00029 70569 00000	FSK 200/1000	(AB)

F06	1-12	1100	16333	Fri	11100 00000 75146 30069 03129 and 11100 00000 74631 30070 03129	FSK 200/1000	(AB)
F06	1-12	1110	13451	Fri	11100 00000 75146 30069 03129 and 11100 00000 74631 30070 03129	FSK 200/1000	(AB)
F06	1-12	1120	10232	Fri	11100 00000 75146 30069 03129 and 11100 00000 74631 30070 03129	FSK 200/1000	(AB)
F06	1-12	1240	13952	Fri	11100 00000 15873 30071 03429 and 11100 00000 24893 30072 03429	FSK 200/1000	(AB)
F06	1-12	1250	11135	Fri	11100 00000 15873 30071 03429 and 11100 00000 24893 30072 03429	FSK 200/1000	(AB)
F06	1-12	1330	12111	Fri	11100 00000 46723 30015 00029 70569 00000	FSK 200/1000	(AB)
F06	1-12	1340	10532	Fri	11100 00000 46723 30015 00029 70569 00000	FSK 200/1000	(AB)
F06	1-12	1350	9043	Fri	11100 00000 46723 30015 00029 70569 00000	FSK 200/1000	(AB)
F06	2-12	0620	13974	Sat	11100 00000 37158 01073 03029 and 11100 00000 37156 01074 03029	FSK 200/1000	(AB)
F06	2-12	0630	12161	Sat	11100 00000 37158 01073 03029 and 11100 00000 37156 01074 03029	FSK 200/1000	(AB)
F06	2-12	0640	9923	Sat	11100 00000 37158 01073 03029 and 11100 00000 37156 01074 03029	FSK 200/1000	(AB)
F06	2-12	0900	18044	Sat	11100 00000 37465 01075 03529 and 11100 00000 37461 01076 03529	FSK 200/1000	(AB)
F06	2-12	0910	14973	Sat	11100 00000 37465 01075 03529 and 11100 00000 37461 01076 03529	FSK 200/1000	(AB)
F06	2-12	0920	11632	Sat	11100 00000 37465 01075 03529 and 11100 00000 37461 01076 03529	FSK 200/1000	(AB)
F06	2-12	1100	16333	Sat	11100 00000 37158 01073 03029 and 11100 00000 37156 01074 03029	FSK 200/1000	(AB/MPJ)
F06	2-12	1110	13451	Sat	11100 00000 37158 01073 03029 and 11100 00000 37156 01074 03029	FSK 200/1000	(AB/MPJ)
F06	2-12	1120	10232	Sat	11100 00000 37158 01073 03029 and 11100 00000 37156 01074 03029	FSK 200/1000	(AB)
F06	2-12	1240	13952	Sat	11100 00000 37465 01075 03529 and 11100 00000 37461 01076 03529	FSK 200/1000	(AB)
F06	2-12	1250	11135	Sat	11100 00000 37465 01075 03529 and 11100 00000 37461 01076 03529	FSK 200/1000	(AB)
F06	3-12	0540	8137	Sun	11100 71225 59483 30016 00029 75842 00000	FSK 200/1000	(PY)
F06	3-12	0610	13375	Sun	11100 00000 54872 30078 03929	FSK 200/1000	(PY)
F06	3-12	0650	15651	Sun	11100 00000 95863 30079 06629	FSK 200/1000	(PY)
F06	3-12	0700	13564	Sun	11100 00000 95863 30079 06629	FSK 200/1000	(PY)
F06	3-12	0730	15751	Sun	7 messages	FSK 200/1000	(PY)
F06	3-12	0740	13946	Sun	7 messages	FSK 200/1000	(PY)
F06	3-12	0815	18591	Sun	no proper decode	FSK 200/1000	(PY)
F06	3-12	0900	16326	Sun	7 messages	FSK 200/1000	(Subilo/PY)
F06	3-12	0910	14980	Sun	7 messages	FSK 200/1000	(AB/PY)
F06	3-12	0920	13375	Sun	7 messages	FSK 200/1000	(AB/PY)
F06	3-12	1030	15803	Sun	11100 00000 95863 30079 06629	FSK 200/1000	(PY)
F06	3-12	1040	13426	Sun	11100 00000 95863 30079 06629	FSK 200/1000	(PY)
F06	3-12	1110	15691	Sun	11100 00000 54872 30078 03929	FSK 200/1000	(PY)
F06	3-12	1120	13463	Sun	11100 00000 54872 30078 03929	FSK 200/1000	(PY)
F06	3-12	1130	11610	Sun	11100 00000 54872 30078 03929	FSK 200/1000	(PY)
F06	3-12	1150	14406	Sun	11100 00000 59483 30016 00029 75842 00000	FSK 200/1000	(PY)
F06	4-12	0500	7379	Mon	11166 70059 15973 04001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	4-12	0510	6774	Mon	11166 70059 15973 04001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	4-12	0520	5463	Mon	11166 70059 15973 04001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	4-12	0540	8137	Mon	11100 71225 35791 01017 00029 60287 00000	FSK 200/1000	(PY)
F06	4-12	0610	13375	Mon	11100 00000 65213 01088 03929	FSK 200/1000	(PY)
F06	4-12	0650	15651	Mon	11100 00000 71623 01089 06629	FSK 200/1000	(PY)
F06	4-12	0700	13564	Mon	11100 00000 71623 01089 06629	FSK 200/1000	(AB)

F06	4-12	0730	15751	Mon	7 messages	FSK 200/1000	(PY)
F06	4-12	0740	13946	Mon	7 messages	FSK 200/1000	(PY)
F06	4-12	0815	18591	Mon	1 message, no proper decode	FSK 200/1000	(PY)
F06	4-12	0900	16326	Mon	7 messages	FSK 200/1000	(AB)
F06	4-12	0910	14980	Mon	7 messages	FSK 200/1000	(AB)
F06	4-12	0920	13375	Mon	7 messages	FSK 200/1000	(AB)
F06	4-12	1030	15803	Mon	11100 00000 71623 01089 06629	FSK 200/1000	(PY)
F06	4-12	1040	13426	Mon	11100 00000 71623 01089 06629	FSK 200/1000	(PY)
F06	4-12	1110	15691	Mon	11100 00000 65213 01088 03929	FSK 200/1000	(PY)
F06	4-12	1120	13463	Mon	11100 00000 65213 01088 03929	FSK 200/1000	(PY)
F06	4-12	1150	14406	Mon	11100 00000 35791 01017 00029 60287 00000	FSK 200/1000	(PY)
F06	5-12	0540	8137	Tue	11100 71225 93751 04018 00029 91257 00000	FSK 200/1000	(PY)
F06	5-12	0610	13375	Tue	11100 00000 36147 04098 03929	FSK 200/1000	(PY)
F06	5-12	0650	15651	Tue	11100 00000 51287 04099 06629	FSK 200/1000	(AB/PY)
F06	5-12	0700	13564	Tue	11100 00000 51287 04099 06629	FSK 200/1000	(AB/PY)
F06	5-12	0730	15751	Tue	7 messages	FSK 200/1000	(PY)
F06	5-12	0740	13946	Tue	7 messages	FSK 200/1000	(PY)
F06	5-12	0815	18591	Tue	2 messages, no proper decode	FSK 200/1000	(PY)
F06	5-12	0900	16326	Tue	7 messages	FSK 200/1000	(AB/PY)
F06	5-12	0910	14980	Tue	7 messages	FSK 200/1000	(AB/PY)
F06	5-12	0920	13375	Tue	7 messages	FSK 200/1000	(AB/PY)
F06	5-12	1030	15803	Tue	11100 00000 51287 04099 06629	FSK 200/1000	(PY)
F06	5-12	1040	13426	Tue	11100 00000 51287 04099 06629	FSK 200/1000	(PY)
F06	5-12	1110	15691	Tue	11100 00000 36147 04098 03929	FSK 200/1000	(PY)
F06	5-12	1120	13463	Tue	11100 00000 36147 04098 03929	FSK 200/1000	(PY)
F06	5-12	1130	11610	Tue	11100 00000 36147 04098 03929	FSK 200/1000	(PY)
F06	5-12	1150	14406	Tue	11100 00000 93751 04018 00029 91257 00000	FSK 200/1000	(PY)
F06	5-12	1230	10559	Tue	11166 30154 12547 05069 00049 00000 00000 00000 00000	FSK 200/1000	(PY)
F06	5-12	1240	8078	Tue	11166 30154 12547 05069 00049 00000 00000 00000 00000	FSK 200/1000	(PY)
F06	5-12	1250	6873	Tue	11166 30154 12547 05069 00049 00000 00000 00000 00000	FSK 200/1000	(PY)
F06	5-12	1650	12125	Tue	11166 10053 17935 05001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	5-12	1700	10575	Tue	11166 10053 17935 05001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	5-12	1710	8131	Tue	11166 10053 17935 05001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	6-12	0550	12156	Wed	11100 71225 92547 05019 00029 93518 00000	FSK 200/1000	(PY)
F06	6-12	0600	20157	Wed	11166 40122 46731 02086 03479	FSK 200/1000	(AB-J)
F06	6-12	0610	13375	Wed	11100 00000 54182 05009 03929	FSK 200/1000	(AB)
F06	6-12	0610	18241	Wed	11166 40122 46731 02086 03479	FSK 200/1000	(AB-J/PY)
F06	6-12	0620	12158	Wed	11100 00000 54182 05009 03929	FSK 200/1000	(AB)
F06	6-12	0620	16204	Wed	11166 40122 46731 02086 03479	FSK 200/1000	(AB-J/PY)
F06	6-12	0630	10562	Wed	11100 00000 54182 05009 03929	FSK 200/1000	(AB/PY)
F06	6-12	0650	15651	Wed	11100 00000 65287 05010 06629	FSK 200/1000	(AB/PY)
F06	6-12	0700	13564	Wed	11100 00000 65287 05010 06629	FSK 200/1000	(AB/PY)

F06	6-12	0710	12066	Wed	11100 00000 65287 05010 06629	FSK 200/1000	(PY)
F06	6-12	0730	15751	Wed	7 messages	FSK 200/1000	(AB)
F06	6-12	0740	13946	Wed	7 messages	FSK 200/1000	(AB)
F06	6-12	0750	12221	Wed	7 messages	FSK 200/1000	(AB)
F06	6-12	0810	15988	Wed	File 44418 (binary contents)	FSK 200/1000	(AB)
F06	6-12	0815	18591	Wed	File 44437 (binary contents)	FSK 200/1000	(AB)
F06	6-12	0820	14936	Wed	File 44418 (binary contents)	FSK 200/1000	(AB)
F06	6-12	0830	12228	Wed	File 44418 (binary contents)	FSK 200/1000	(AB)
F06	6-12	0900	16326	Wed	7 messages	FSK 200/1000	(AB)
F06	6-12	0910	14980	Wed	7 messages	FSK 200/1000	(AB)
F06	6-12	0920	13375	Wed	7 messages	FSK 200/1000	(AB)
F06	6-12	0940	17465	Wed	Started as F06a file 44418. Switched after 53 blocks to F06: 11100 71225 92547 05019 00029 93518 00000	FSK 200/1000	(AB/PY)
F06	6-12	0950	14896	Wed	11100 71225 92547 05019 00029 93518 00000	FSK 200/1000	(AB/PY)
F06	6-12	1000	13405	Wed	11100 71225 92547 05019 00029 93518 00000	FSK 200/1000	(AB/PY)
F06	6-12	1030	15803	Wed	11100 00000 65287 05010 06629	FSK 200/1000	(PY)
F06	6-12	1040	13426	Wed	11100 00000 65287 05010 06629	FSK 200/1000	(AB/PY)
F06	6-12	1050	12086	Wed	11100 00000 65287 05010 06629	FSK 200/1000	(AB/PY)
F06	6-12	1110	15691	Wed	11100 00000 54182 05009 03929	FSK 200/1000	(PY)
F06	6-12	1120	13463	Wed	11100 00000 54182 05009 03929	FSK 200/1000	(AB/PY)
F06	6-12	1130	11610	Wed	11100 00000 54182 05009 03929	FSK 200/1000	(PY)
F06	6-12	1150	14406	Wed	11100 71225 92547 05019 00029 93518 00000	FSK 200/1000	(PY)
F06	6-12	1200	13368	Wed	11100 71225 92547 05019 00029 93518 00000	FSK 200/1000	(PY)
F06	6-12	1300	10177	Wed	11166 10075 45687 06057 00049 00000 00000 00000 00000	FSK 200/1000	(PY)
F06	6-12	1310	8053	Wed	11166 10075 45687 06057 00049 00000 00000 00000 00000	FSK 200/1000	(PY)
F06	6-12	1310	9049	Wed	11166 60081 12345 06050 00049 00000 00000 00000 00000	FSK 200/1000	(PY)
F06	6-12	1320	8023	Wed	11166 60081 12345 06050 00049 00000 00000 00000 00000	FSK 200/1000	(PY)
F06	7-12	0550	12156	Thu	11100 71225 65982 06020 00029 10852 00000	FSK 200/1000	(AB/PY)
F06	7-12	0600	20157	Thu	11166 40122 46731 02086 03479	FSK 200/1000	(AB-KOR)
F06	7-12	0610	13375	Thu	11100 00000 31475 06019 03929	FSK 200/1000	(AB)
F06	7-12	0610	18241	Thu	11166 40122 46731 02086 03479	FSK 200/1000	(AB-J)
F06	7-12	0620	12158	Thu	11100 00000 31475 06019 03929	FSK 200/1000	(AB)
F06	7-12	0620	16204	Thu	11166 40122 46731 02086 03479	FSK 200/1000	(AB-J)
F06	7-12	0630	10562	Thu	11100 00000 31475 06019 03929	FSK 200/1000	(AB)
F06	7-12	0650	15651	Thu	11100 00000 50146 06020 06629	FSK 200/1000	(AB)
F06	7-12	0700	13564	Thu	11100 00000 50146 06020 06629	FSK 200/1000	(AB)
F06	7-12	0710	12066	Thu	11100 00000 50146 06020 06629	FSK 200/1000	(AB)
F06	7-12	0730	15751	Thu	7 messages	FSK 200/1000	(AB)
F06	7-12	0740	13946	Thu	7 messages	FSK 200/1000	(AB)
F06	7-12	0750	12221	Thu	7 messages	FSK 200/1000	(AB)
F06	7-12	0810	15988	Thu	File 44428 (binary contents)	FSK 200/1000	(AB)
F06	7-12	0820	14936	Thu	File 44428 (binary contents)	FSK 200/1000	(AB)

F06	7-12	0830	12228	Thu	File 44428 (binary contents)	FSK 200/1000	(AB)
F06	7-12	0900	16326	Thu	7 messages	FSK 200/1000	(AB)
F06	7-12	0910	14980	Thu	7 messages	FSK 200/1000	(AB)
F06	7-12	0920	13375	Thu	7 messages	FSK 200/1000	(AB)
F06	7-12	0940	17465	Thu	File 44428 (binary contents)	FSK 200/1000	(AB)
F06	7-12	0950	14896	Thu	File 44428 (binary contents)	FSK 200/1000	(AB)
F06	7-12	1000	13405	Thu	File 44428 (binary contents)	FSK 200/1000	(AB)
F06	7-12	1030	15803	Thu	11100 00000 50146 06020 06629	FSK 200/1000	(AB)
F06	7-12	1040	13426	Thu	11100 00000 50146 06020 06629	FSK 200/1000	(AB)
F06	7-12	1050	12086	Thu	11100 00000 50146 06020 06629	FSK 200/1000	(AB)
F06	7-12	1110	15691	Thu	11100 00000 31475 06019 03929	FSK 200/1000	(AB)
F06	7-12	1120	13463	Thu	11100 00000 31475 06019 03929	FSK 200/1000	(AB)
F06	7-12	1130	11610	Thu	11100 00000 31475 06019 03929	FSK 200/1000	(AB)
F06	7-12	1150	14406	Thu	11100 00000 65982 06020 00029 10852 00000	FSK 200/1000	(AB)
F06	7-12	1200	13368	Thu	11100 00000 65982 06020 00029 10852 00000	FSK 200/1000	(AB)
F06	7-12	1210	11131	Thu	11100 00000 65982 06020 00029 10852 00000	FSK 200/1000	(AB)
F06	8-12	0530	5931	Fri	11100 71225 34519 07021 00029 48156 00000	FSK 200/1000	(PY)
F06	8-12	0540	8137	Fri	11100 71225 34519 07021 00029 48156 00000	FSK 200/1000	(PY)
F06	8-12	0550	12156	Fri	11100 71225 34519 07021 00029 48156 00000	FSK 200/1000	(AB/PY)
F06	8-12	0610	13375	Fri	11100 00000 28546 07029 03929	FSK 200/1000	(AB)
F06	8-12	0620	12158	Fri	11100 00000 28546 07029 03929	FSK 200/1000	(AB)
F06	8-12	0630	10562	Fri	11100 00000 28546 07029 03929	FSK 200/1000	(AB)
F06	8-12	0650	15651	Fri	11100 00000 94168 07030 06629	FSK 200/1000	(AB)
F06	8-12	0700	13564	Fri	11100 00000 94168 07030 06629	FSK 200/1000	(AB)
F06	8-12	0710	12066	Fri	11100 00000 94168 07030 06629	FSK 200/1000	(AB)
F06	8-12	0730	15751	Fri	7 messages	FSK 200/1000	(AB)
F06	8-12	0740	13946	Fri	7 messages	FSK 200/1000	(AB)
F06	8-12	0750	12221	Fri	7 messages	FSK 200/1000	(AB)
F06	8-12	0810	15988	Fri	File 44438 (binary contents)	FSK 200/1000	(AB)
F06	8-12	0815	18591	Fri	11100 00000 47123 08042 03529	FSK 200/1000	(AB)
F06	8-12	0820	14936	Fri	File 44438 (binary contents)	FSK 200/1000	(AB)
F06	8-12	0830	12228	Fri	File 44438 (binary contents)	FSK 200/1000	(AB)
F06	8-12	0900	16326	Fri	7 messages	FSK 200/1000	(AB)
F06	8-12	0910	14980	Fri	7 messages	FSK 200/1000	(AB)
F06	8-12	0920	13375	Fri	7 messages	FSK 200/1000	(AB)
F06	8-12	0940	17465	Fri	File 44438 (binary contents)	FSK 200/1000	(AB)
F06	8-12	0950	14896	Fri	File 44438 (binary contents)	FSK 200/1000	(AB)
F06	8-12	1000	13405	Fri	File 44438 (binary contents)	FSK 200/1000	(AB)
F06	8-12	1030	15803	Fri	11100 00000 94168 07030 06629	FSK 200/1000	(AB)
F06	8-12	1040	13426	Fri	11100 00000 94168 07030 06629	FSK 200/1000	(AB)
F06	8-12	1050	12086	Fri	11100 00000 94168 07030 06629	FSK 200/1000	(AB)
F06	8-12	1110	15691	Fri	11100 00000 28546 07029 03929	FSK 200/1000	(AB)

F06	8-12	1120	13463	Fri	11100 00000 28546 07029 03929	FSK 200/1000	(AB)
F06	8-12	1130	11610	Fri	11100 00000 28546 07029 03929	FSK 200/1000	(AB)
F06	8-12	1150	14406	Fri	11100 00000 34519 07021 00029 48156 00000	FSK 200/1000	(AB)
F06	8-12	1200	13368	Fri	11100 00000 34519 07021 00029 48156 00000	FSK 200/1000	(AB)
F06	8-12	1210	11131	Fri	11100 00000 34519 07021 00029 48156 00000	FSK 200/1000	(AB)
F06	10-12	1530	12209	Sun	11166 10053 14785 10001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	10-12	1540	9363	Sun	11166 10053 14785 10001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	10-12	1550	8153	Sun	11166 10053 14785 10001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	12-12	0030	9489	Tue	11166 60070 17935 12001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	12-12	0040	7615	Tue	11166 60070 17935 12001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	12-12	0050	6983	Tue	11166 60070 17935 12001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	12-12	0700	11046	Tue	11166 70202 85417 11088 01939 and 11166 70202 97614 11089 02179	FSK 200/1000	(AB)
F06	12-12	0710	9065	Tue	11166 70202 85417 11088 01939 and 11166 70202 97614 11089 02179	FSK 200/1000	(AB)
F06	12-12	0720	7479	Tue	11166 70202 85417 11088 01939 and 11166 70202 97614 11089 02179	FSK 200/1000	(AB)
F06	12-12	1200	9178	Tue	11166 70202 85417 11088 01939 and 11166 70202 97614 11089 02179	FSK 200/1000	(AB)
F06	12-12	1210	7624	Tue	11166 70202 85417 11088 01939 and 11166 70202 97614 11089 02179	FSK 200/1000	(AB-POL)
F06	12-12	1220	5789	Tue	11166 70202 85417 11088 01939 and 11166 70202 97614 11089 02179	FSK 200/1000	(AB-POL)
F06	12-12	1230	10559	Tue	11166 30154 14725 12069 00049 00000 00000 00000 00000	FSK 200/1000	(PY)
F06	12-12	1240	8078	Tue	11166 30154 14725 12069 00049 00000 00000 00000 00000	FSK 200/1000	(PY)
F06	12-12	1250	6873	Tue	11166 30154 14725 12069 00049 00000 00000 00000 00000	FSK 200/1000	(PY)
F06	12-12	1650	12125	Tue	11166 10053 12547 12001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	12-12	1700	10575	Tue	11166 10053 12547 12001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	12-12	1710	8131	Tue	11166 10053 12547 12001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	13-12	0600	20157	Wed	11166 40122 47859 09087 03029 and 11166 40122 36985 09088 02789	FSK 200/1000	(AB-RUS)
F06	13-12	0610	18241	Wed	11166 40122 47859 09087 03029 and 11166 40122 36985 09088 02789	FSK 200/1000	(AB-RUS)
F06	13-12	0620	16204	Wed	11166 40122 47859 09087 03029 and 11166 40122 36985 09088 02789	FSK 200/1000	(AB-RUS)
F06	13-12	1015	25523	Wed	11166 40023 71938 13001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	13-12	1030	20989	Wed	11166 40023 71938 13001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	13-12	1045	18751	Wed	11166 40023 71938 13001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	13-12	1300	10177	Wed	11166 10075 12547 13069 00049 00000 00000 000	FSK 200/1000	(PY)
F06	13-12	1310	8053	Wed	11166 10075 12547 13069 00049 00000 00000 00000 00000	FSK 200/1000	(PY)
F06	13-12	1310	9049	Wed	11166 60081 12365 13069 00049 00000 00000 00000 00000	FSK 200/1000	(PY)
F06	13-12	1320	6875	Wed	11166 10075 12547 13069 00049 00000 00000 000	FSK 200/1000	(PY)
F06	13-12	1320	8023	Wed	11166 60081 12365 13069 00049 00000 00000 00000 00000	FSK 200/1000	(PY)
F06	14-12	0600	20157	Thu	11166 40122 47859 09087 03029 and 11166 40122 36985 09088 02789	FSK 200/1000	(AB-RUS)
F06	14-12	0610	18241	Thu	11166 40122 47859 09087 03029 and 11166 40122 36985 09088 02789	FSK 200/1000	(AB-RUS)
F06	14-12	0620	16204	Thu	11166 40122 47859 09087 03029 and 11166 40122 36985 09088 02789	FSK 200/1000	(AB-RUS)
F06	14-12	0700	11046	Thu	11166 70202 89175 13091 01959 and 11166 70202 13689 13092 02159	FSK 200/1000	(AB)
F06	14-12	0710	9065	Thu	11166 70202 89175 13091 01959 and 11166 70202 13689 13092 02159	FSK 200/1000	(AB)
F06	14-12	0720	7479	Thu	11166 70202 89175 13091 01959 and 11166 70202 13689 13092 02159	FSK 200/1000	(AB)
F06	14-12	1200	9178	Thu	11166 70202 89175 13091 01959 and 11166 70202 13689 13092 02159	FSK 200/1000	(AB)
F06	14-12	1210	7624	Thu	11166 70202 89175 13091 01959 and 11166 70202 13689 13092 02159	FSK 200/1000	(AB-POL)

F06	14-12	1220	5789	Thu	11166 70202 89175 13091 01959 and 11166 70202 13689 13092 02159	FSK 200/1000	(AB-POL)
F06	14-12	1330	15946	Thu	11166 80214 65324 13064 00049 00000 00000 00000 00000	FSK/200/1000	(MPJ)
F06	14-12	1340	12211	Thu	11166 80214 65324 13064 00049 00000 00000 00000 00000	FSK/200/1000	(MPJ)
F06	14-12	1350	10286	Thu	11166 80214 65324 13064 00049 00000 00000 00000 00000	FSK/200/1000	(MPJ)
F06	15-12	0700	11046	Fri	11166 70202 13468 14055 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	15-12	0710	9065	Fri	11166 70202 13468 14055 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	15-12	0720	7479	Fri	11166 70202 13468 14055 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	17-12	1530	12209	Sun	11166 10053 17935 17001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	17-12	1540	9363	Sun	11166 10053 17935 17001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	17-12	1550	8153	Sun	11166 10053 17935 17001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	18-12	0500	7379	Mon	11166 70059 17935 18001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	18-12	0510	6774	Mon	11166 70059 17935 18001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	18-12	0520	5463	Mon	11166 70059 17935 18001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	19-12	0030	9489	Tue	11166 60070 78590 19001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	19-12	0040	7615	Tue	11166 60070 78590 19001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	19-12	0050	6983	Tue	11166 60070 78590 19001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	19-12	0700	11046	Tue	11166 70202 63257 18094 01579 and 11166 70202 87512 18095 01779	FSK 200/1000	(AB)
F06	19-12	0710	9065	Tue	11166 70202 63257 18094 01579 and 11166 70202 87512 18095 01779	FSK 200/1000	(AB)
F06	19-12	0720	7479	Tue	11166 70202 63257 18094 01579 and 11166 70202 87512 18095 01779	FSK 200/1000	(AB)
F06	19-12	1200	9178	Tue	11166 70202 63257 18094 01579 and 11166 70202 87512 18095 01779	FSK 200/1000	(AB)
F06	19-12	1210	7624	Tue	11166 70202 63257 18094 01579 and 11166 70202 87512 18095 01779	FSK 200/1000	(AB-POL)
F06	19-12	1220	5789	Tue	11166 70202 63257 18094 01579 and 11166 70202 87512 18095 01779	FSK 200/1000	(AB-POL)
F06	19-12	1230	10559	Tue	11166 30154 15478 19578 00049 00000 00000 00000 00000	FSK 200/1000	(PY)
F06	19-12	1240	8078	Tue	11166 30154 15478 19578 00049 00000 00000 00000 00000	FSK 200/1000	(PY)
F06	19-12	1250	6873	Tue	11166 30154 15478 19578 00049 00000 00000 00000 00000	FSK 200/1000	(PY)
F06	19-12	1650	12125	Tue	11166 10053 13467 19001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	19-12	1700	10575	Tue	11166 10053 13467 19001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	19-12	1710	8131	Tue	11166 10053 13467 19001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	20-12	0600	20157	Wed	11166 40122 25896 20024 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS)
F06	20-12	0610	18241	Wed	11166 40122 25896 20024 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS)
F06	20-12	0620	16204	Wed	11166 40122 25896 20024 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS)
F06	20-12	1300	10177	Wed	11166 10075 25893 20018 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	20-12	1310	8053	Wed	11166 10075 25893 20018 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	20-12	1310	9049	Wed	11166 60081 28936 20033 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	20-12	1320	6875	Wed	11166 10075 25893 20018 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	20-12	1320	8023	Wed	11166 60081 28936 20033 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	21-12	0700	11046	Thu	11166 70202 12476 20097 01659 and 11166 70202 58349 20098 01739	FSK 200/1000	(AB)
F06	21-12	0710	9065	Thu	11166 70202 12476 20097 01659 and 11166 70202 58349 20098 01739	FSK 200/1000	(AB)
F06	21-12	0720	7479	Thu	11166 70202 12476 20097 01659 and 11166 70202 58349 20098 01739	FSK 200/1000	(AB)
F06	21-12	1200	9178	Thu	11166 70202 12476 20097 01659 and 11166 70202 58349 20098 01739	FSK 200/1000	(AB)
F06	21-12	1210	7624	Thu	11166 70202 12476 20097 01659 and 11166 70202 58349 20098 01739	FSK 200/1000	(AB-POL)
F06	21-12	1220	5789	Thu	11166 70202 12476 20097 01659 and 11166 70202 58349 20098 01739	FSK 200/1000	(AB-POL)

F06	21-12	1330	15946	Thu	11166 80214 96325 20088 00049 00000 00000 00000 00000	FSK/200/1000	(AB/MPJ)
F06	21-12	1340	12211	Thu	11166 80214 96325 20088 00049 00000 00000 00000 00000	FSK/200/1000	(AB/MPJ)
F06	21-12	1350	10286	Thu	11166 80214 96325 20088 00049 00000 00000 00000 00000	FSK/200/1000	(AB/MPJ)
F06	22-12	0700	11046	Fri	11166 70202 14587 22045 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	22-12	0710	9065	Fri	11166 70202 14587 22045 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	22-12	0720	7479	Fri	11166 70202 14587 22045 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	24-12	1530	12209	Sun	11166 10053 75312 24001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	24-12	1540	9363	Sun	11166 10053 75312 24001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	24-12	1550	8153	Sun	11166 10053 75312 24001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	26-12	0030	9489	Tue	11166 60070 63817 26001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	26-12	0040	7615	Tue	11166 60070 63817 26001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	26-12	0050	6983	Tue	11166 60070 63817 26001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	26-12	0700	11046	Tue	11166 70202 91257 25001 01879 and 11166 70202 64512 25002 02099	FSK 200/1000	(AB)
F06	26-12	0710	9065	Tue	11166 70202 91257 25001 01879 and 11166 70202 64512 25002 02099	FSK 200/1000	(AB)
F06	26-12	0720	7479	Tue	11166 70202 91257 25001 01879 and 11166 70202 64512 25002 02099	FSK 200/1000	(AB)
F06	26-12	1200	9178	Tue	11166 70202 91257 25001 01879 and 11166 70202 64512 25002 02099	FSK 200/1000	(AB)
F06	26-12	1210	7624	Tue	11166 70202 91257 25001 01879 and 11166 70202 64512 25002 02099	FSK 200/1000	(AB-POL)
F06	26-12	1220	5789	Tue	11166 70202 91257 25001 01879 and 11166 70202 64512 25002 02099	FSK 200/1000	(AB-POL)
F06	26-12	1230	10559	Tue	11166 30154 25896 26022 00049 00000 00000 00000 00000	FSK 200/1000	(PY)
F06	26-12	1240	8078	Tue	11166 30154 25896 26022 00049 00000 00000 00000 00000	FSK 200/1000	(PY)
F06	26-12	1250	6873	Tue	11166 30154 25896 26022 00049 00000 00000 00000 00000	FSK 200/1000	(PY)
F06	26-12	1650	12125	Tue	11166 10053 17935 26001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	26-12	1700	10575	Tue	11166 10053 17935 26001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	26-12	1710	8131	Tue	11166 10053 17935 26001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	27-12	0500	5089	Wed	11100 00000 17935 27001 00049 00000 00000 00000 00000	FSK 200/1000	(PY)
F06	27-12	0515	7337	Wed	11100 00000 17935 27001 00049 00000 00000 00000 00000	FSK 200/1000	(PY)
F06	27-12	0530	9481	Wed	11100 00000 17935 27001 00049 00000 00000 00000 00000	FSK 200/1000	(PY)
F06	27-12	0600	20157	Wed	11166 40122 65874 23089 03709	FSK 200/1000	(AB-RUS)
F06	27-12	0610	18241	Wed	11166 40122 65874 23089 03709	FSK 200/1000	(AB-RUS)
F06	27-12	0620	16204	Wed	11166 40122 65874 23089 03709	FSK 200/1000	(AB-RUS)
F06	27-12	0930	5089	Wed	11100 00000 76513 27089 00029 53625 00000	FSK 200/1000	(PY)
F06	27-12	0945	7337	Wed	11100 00000 76513 27089 00029 53625 00000	FSK 200/1000	(PY)
F06	27-12	1000	9481	Wed	11100 00000 76513 27089 00029 53625 00000	FSK 200/1000	(sse)
F06	27-12	1015	25523	Wed	11166 40023 79135 27001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	27-12	1030	20989	Wed	11166 40023 79135 27001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	27-12	1045	18751	Wed	11166 40023 79135 27001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	27-12	1300	10177	Wed	11166 10075 14567 27131 00049 00000 00000 00000 00000	FSK 200/1000	(AB-J/PY)
F06	27-12	1310	8053	Wed	11166 10075 14567 27131 00049 00000 00000 00000 00000	FSK 200/1000	(AB-J/PY)
F06	27-12	1310	9049	Wed	11166 60081 45861 27465 00049 00000 00000 00000 00000	FSK 200/1000	(AB-KOR/PY)
F06	27-12	1320	6875	Wed	11166 10075 14567 27131 00049 00000 00000 00000 00000	FSK 200/1000	(AB-J/PY)
F06	27-12	1320	8023	Wed	11166 60081 45861 27465 00049 00000 00000 00000 00000	FSK 200/1000	(AB-KOR/PY)
F06	28-12	0600	20157	Thu	11166 40122 65874 23089 03709	FSK 200/1000	(AB-RUS)

F06	28-12	0610	18241	Thu	11166 40122 65874 23089 03709	FSK 200/1000	(AB-RUS)
F06	28-12	0620	16204	Thu	11166 40122 65874 23089 03709	FSK 200/1000	(AB-RUS)
F06	28-12	0700	11046	Thu	11166 70202 28361 27004 02039 and 11166 70202 63954 27005 01919	FSK 200/1000	(AB)
F06	28-12	0710	9065	Thu	11166 70202 28361 27004 02039 and 11166 70202 63954 27005 01919	FSK 200/1000	(AB)
F06	28-12	0720	7479	Thu	11166 70202 28361 27004 02039 and 11166 70202 63954 27005 01919	FSK 200/1000	(AB)
F06	28-12	1200	9178	Thu	11166 70202 28361 27004 02039 and 11166 70202 63954 27005 01919	FSK 200/1000	(AB)
F06	28-12	1210	7624	Thu	11166 70202 28361 27004 02039 and 11166 70202 63954 27005 01919	FSK 200/1000	(AB-POL)
F06	28-12	1220	5789	Thu	11166 70202 28361 27004 02039 and 11166 70202 63954 27005 01919	FSK 200/1000	(AB-POL)
F06	28-12	1330	15946	Thu	11166 80214 74082 28079 00049 00000 00000 00000 00000	FSK/200/1000	(AB/MPJ)
F06	28-12	1340	12211	Thu	11166 80214 74082 28079 00049 00000 00000 00000 00000	FSK/200/1000	(AB/MPJ)
F06	28-12	1350	10286	Thu	11166 80214 74082 28079 00049 00000 00000 00000 00000	FSK/200/1000	(AB/MPJ)
F06	29-12	0700	11046	Fri	11166 70202 36578 29018 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	29-12	0710	9065	Fri	11166 70202 36578 29018 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	29-12	0720	7479	Fri	11166 70202 36578 29018 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	30-12	1700	7482	Sat	11100 00000 37519 29080 02159	FSK 200/1000	(PY)
F06	30-12	1710	5092	Sat	11100 00000 37519 29080 02159	FSK 200/1000	(PY)
F06	30-12	1720	4043	Sat	11100 00000 37519 29080 02159	FSK 200/1000	(Pof)
F06	31-12	0830	9481	Sun	11100 00000 37519 29080 02159	FSK 200/1000	(PY)
F06	31-12	0840	7992	Sun	11100 00000 37519 29080 02159	FSK 200/1000	(PY)
F06	31-12	0850	5089	Sun	11100 00000 37519 29080 02159	FSK 200/1000	(PY)
F06	31-12	1530	12209	Sun	11166 10053 61397 31001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	31-12	1540	9363	Sun	11166 10053 61397 31001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	31-12	1550	8153	Sun	11166 10053 61397 31001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06a	1-12	0500	4059	Fri	File 44409 (binary contents)	FSK 200/1000	(AB)
F06a	1-12	0515	5263	Fri	File 44409 (binary contents)	FSK 200/1000	(AB)
F06a	1-12	0530	6925	Fri	File 44409 (binary contents)	FSK 200/1000	(AB)
F06a	2-12	1000	18039	Sat	File 44477 (binary contents)	FSK 200/1000	(AB)
F06a	2-12	1010	14904	Sat	File 44477 (binary contents)	FSK 200/1000	(AB)
F06a	2-12	1020	11547	Sat	File 44477 (binary contents)	FSK 200/1000	(AB)
F06a	2-12	1330	12111	Sat	File 44477 (binary contents)	FSK 200/1000	(AB)
F06a	2-12	1340	10532	Sat	File 44477 (binary contents)	FSK 200/1000	(AB)
F06a	2-12	1350	9043	Sat	File 44477 (binary contents)	FSK 200/1000	(AB)
F06a	3-12	0810	15988	Sun	File 44487 (1684 bytes)	FSK 200/1000	(PY)
F06a	3-12	0820	14936	Sun	File 44487 (1684 bytes)	FSK 200/1000	(PY)
F06a	3-12	0940	17465	Sun	File 44487 (binary contents)	FSK 200/1000	(linkz/PY)
F06a	3-12	0950	14896	Sun	File 44487 (binary contents)	FSK 200/1000	(linkz/PY)
F06a	3-12	1000	13405	Sun	File 44487 (binary contents)	FSK 200/1000	(PY)
F06a	4-12	0810	15988	Mon	File 44497 (binary contents)	FSK 200/1000	(PY)
F06a	4-12	0820	14936	Mon	File 44497 (binary contents)	FSK 200/1000	(PY)
F06a	4-12	0940	17465	Mon	File 44497 (binary contents)	FSK 200/1000	(AB/PY)
F06a	4-12	0950	14896	Mon	File 44497 (binary contents)	FSK 200/1000	(AB)
F06a	4-12	1000	13405	Mon	File 44497 (binary contents)	FSK 200/1000	(AB)

F06a	5-12	0810	15988	Tue	File 44408 (binary contents)	FSK 200/1000	(PY)
F06a	5-12	0825	14936	Tue	File 44408 (binary contents)	FSK 200/1000	(PY)
F06a	5-12	0840	12228	Tue	File 44408 (binary contents)	FSK 200/1000	(PY)
F06a	5-12	0940	17465	Tue	File 44408 (binary contents)	FSK 200/1000	(AB/PY)
F06a	5-12	0955	14896	Tue	File 44408 (binary contents)	FSK 200/1000	(AB/PY)
F06a	5-12	1010	13405	Tue	File 44408 (binary contents)	FSK 200/1000	(AB/PY)
F06a	6-12	0810	15988	Wed	File 44418 (1743 bytes)	FSK 200/1000	(PY)
F06a	6-12	0815	18591	Wed	File 44437 (315 bytes), binary contents	FSK 200/1000	(PY)
F06a	6-12	0820	14936	Wed	File 44418 (1743 bytes)	FSK 200/1000	(PY)
F06a	6-12	0830	12228	Wed	File 44418 (1743 bytes)	FSK 200/1000	(PY)
F06a	7-12	0815	18591	Thu	File 44439 (binary contents)	FSK 200/1000	(AB/PY)
F06a	8-12	0500	3895	Fri	File 44410 (binary contents)	FSK 200/1000	(AB)
F06a	8-12	0515	4459	Fri	File 44410 (binary contents)	FSK 200/1000	(AB)
F06a	8-12	0530	5427	Fri	File 44410 (binary contents)	FSK 200/1000	(AB)
F06a	11-12	0700	11046	Mon	File 44487 (binary contents)	FSK 200/1000	(AB)
F06a	11-12	0715	9065	Mon	File 44487 (binary contents)	FSK 200/1000	(AB)
F06a	11-12	0730	7479	Mon	File 44487 (binary contents)	FSK 200/1000	(AB)
F06a	11-12	1200	9178	Mon	File 44487 (binary contents)	FSK 200/1000	(AB)
F06a	11-12	1215	7624	Mon	File 44487 (binary contents)	FSK 200/1000	(AB-POL)
F06a	11-12	1230	5789	Mon	File 44487 (binary contents)	FSK 200/1000	(AB-POL)
F06a	13-12	0700	11046	Wed	File 44490 (binary contents)	FSK 200/1000	(AB)
F06a	13-12	0715	9065	Wed	File 44490 (binary contents)	FSK 200/1000	(AB)
F06a	13-12	0730	7479	Wed	File 44490 (binary contents)	FSK 200/1000	(AB)
F06a	13-12	1200	9178	Wed	File 44490 (binary contents)	FSK 200/1000	(AB)
F06a	13-12	1215	7624	Wed	File 44490 (binary contents)	FSK 200/1000	(AB-POL)
F06a	13-12	1230	5789	Wed	File 44490 (binary contents)	FSK 200/1000	(AB-POL)
F06a	14-12	0500	3895	Thu	File 44411 (binary contents)	FSK 200/1000	(AB)
F06a	14-12	0515	4459	Thu	File 44411 (binary contents)	FSK 200/1000	(AB)
F06a	14-12	0530	5427	Thu	File 44411 (binary contents)	FSK 200/1000	(AB)
F06a	15-12	0500	3895	Fri	File 44411 (binary contents)	FSK 200/1000	(AB)
F06a	15-12	0515	4459	Fri	File 44411 (binary contents)	FSK 200/1000	(AB)
F06a	15-12	0530	5427	Fri	File 44411 (binary contents)	FSK 200/1000	(AB)
F06a	18-12	0700	11046	Mon	File 44493 (binary contents). Header 11166 70202 79462 15093 00009	FSK 200/1000	(AB)
F06a	18-12	0715	9065	Mon	File 44493 (binary contents). Header 11166 70202 79462 15093 00009	FSK 200/1000	(AB)
F06a	18-12	0730	7479	Mon	File 44493 (binary contents). Header 11166 70202 79462 15093 00009	FSK 200/1000	(AB)
F06a	18-12	1200	9178	Mon	File 44493 (binary contents). Header 11166 70202 79462 15093 00009	FSK 200/1000	(AB)
F06a	18-12	1215	7624	Mon	File 44493 (binary contents). Header 11166 70202 79462 15093 00009	FSK 200/1000	(AB-POL)
F06a	18-12	1230	5789	Mon	File 44493 (binary contents). Header 11166 70202 79462 15093 00009	FSK 200/1000	(AB-POL)
F06a	20-12	0700	11046	Wed	File 44496 (binary contents)	FSK 200/1000	(AB)
F06a	20-12	0715	9065	Wed	File 44496 (binary contents)	FSK 200/1000	(AB)
F06a	20-12	0730	7479	Wed	File 44496 (binary contents)	FSK 200/1000	(AB)
F06a	20-12	1200	9178	Wed	File 44496 (binary contents)	FSK 200/1000	(AB/MPJ-AUT)

F06a	20-12	1215	7624	Wed	File 44496 (binary contents)	FSK 200/1000	(MPJ-AUT)
F06a	20-12	1230	5789	Wed	File 44496 (binary contents)	FSK 200/1000	(MPJ-AUT)
F06a	21-12	0500	3895	Thu	File 44412 (binary contents)	FSK 200/1000	(AB)
F06a	21-12	0515	4459	Thu	File 44412 (binary contents)	FSK 200/1000	(AB)
F06a	21-12	0530	5427	Thu	File 44412 (binary contents)	FSK 200/1000	(AB)
F06a	21-12	1620	10254	Thu	File name unknown. Header: 11100 40144 96581 17161 03259	FSK 200/1000	(PY)
F06a	21-12	1630	8088	Thu	File name unknown. Header: 11100 40144 96581 17161 03259	FSK 200/1000	(PY)
F06a	21-12	1640	6786	Thu	File name unknown. Header: 11100 40144 96581 17161 03259	FSK 200/1000	(PY)
F06a	22-12	0500	3895	Fri	File 44412 (binary contents)	FSK 200/1000	(AB)
F06a	22-12	0515	4459	Fri	File 44412 (binary contents)	FSK 200/1000	(AB)
F06a	22-12	0530	5427	Fri	File 44412 (binary contents)	FSK 200/1000	(AB)
F06a	25-12	0700	11046	Mon	File 44499 (binary contents)	FSK 200/1000	(AB)
F06a	25-12	0715	9065	Mon	File 44499 (binary contents)	FSK 200/1000	(AB)
F06a	25-12	0730	7479	Mon	File 44499 (binary contents)	FSK 200/1000	(AB)
F06a	25-12	0800	10316	Mon	File 00173~1.TXT (2126 bytes). Header: 11100 00173 78651 23149 03449	FSK 200/1000	(PY)
F06a	25-12	0810	12219	Mon	File 00173~1.TXT (2126 bytes). Header: 11100 00173 78651 23149 03449	FSK 200/1000	(PY)
F06a	25-12	0820	14652	Mon	File 00173~1.TXT (2126 bytes). Header: 11100 00173 78651 23149 03449	FSK 200/1000	(PY)
F06a	25-12	1200	9178	Mon	File 44499 (binary contents)	FSK 200/1000	(AB)
F06a	25-12	1215	7624	Mon	File 44499 (binary contents)	FSK 200/1000	(AB-POL)
F06a	25-12	1230	5789	Mon	File 44499 (binary contents)	FSK 200/1000	(AB-POL)
F06a	26-12	1030	12227	Tue	File 10053~1.TXT (2071 bytes). Header: 11100 10053 21978 24161 03359	FSK 200/1000	(PY)
F06a	26-12	1040	14423	Tue	File 10053~1.TXT (2071 bytes). Header: 11100 10053 21978 24161 03359	FSK 200/1000	(PY)
F06a	26-12	1050	16283	Tue	File 10053~1.TXT (2071 bytes). Header: 11100 10053 21978 24161 03359	FSK 200/1000	(PY)
F06a	27-12	0700	11046	Wed	File 44403 (binary contents) Header: 11166 70202 58246 26003 00009	FSK 200/1000	(AB)
F06a	27-12	0715	9065	Wed	File 44403 (binary contents) Header: 11166 70202 58246 26003 00009	FSK 200/1000	(AB)
F06a	27-12	0730	7479	Wed	File 44403 (binary contents) Header: 11166 70202 58246 26003 00009	FSK 200/1000	(AB)
F06a	27-12	1200	9178	Wed	File 44403 (binary contents) Header: 11166 70202 58246 26003 00009	FSK 200/1000	(AB)
F06a	27-12	1215	7624	Wed	File 44403 (binary contents) Header: 11166 70202 58246 26003 00009	FSK 200/1000	(AB-POL)
F06a	27-12	1230	5789	Wed	File 44403 (binary contents) Header: 11166 70202 58246 26003 00009	FSK 200/1000	(AB-POL)
F06a	28-12	0500	3895	Thu	File 44413 (binary contents)	FSK 200/1000	(AB)
F06a	28-12	0515	4459	Thu	File 44413 (binary contents)	FSK 200/1000	(AB)
F06a	28-12	0530	5427	Thu	File 44413 (binary contents)	FSK 200/1000	(AB)
F06a	29-12	0500	3895	Fri	File 44413 (binary contents)	FSK 200/1000	(AB)
F06a	29-12	0515	4459	Fri	File 44413 (binary contents)	FSK 200/1000	(AB)
F06a	29-12	0530	5427	Fri	File 44413 (binary contents)	FSK 200/1000	(AB)
F07	5-12	2100	7526	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	5-12	2110	7453	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	5-12	2120	6993	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	5-12	2130	6773	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	5-12	2140	5748	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	5-12	2150	5169	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	6-12	0900	10751	Wed	message	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(sse)

F07	28-12	2150	5169	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
G06	14-12	0815	11073	Thu	352 487 60 09460 48538 58791 ... 97936 69316 71886 487 60 00000. Several restarts	USB	(PY)
G06	14-12	0827	11073	Thu	i.p. ... 487 60 00000	USB	(Pof)
M01	2-12	1500	5810	Sat	197 337 337 30 30 = = 49586 10987 28476 ... 81234 91234 01234 = = 337 30 30 000	CW	(AB/SOB)
M01	3-12	0700	5465	Sun	197 734 734 30 30 = = 13214 32174 81875 ... 48567 49567 05670 = = 734 734 30 30 000	CW	(AB-FIN/SOB)
M01	5-12	1800	5320	Tue	197 634 634 30 30 ...	CW	(SOB)
M01	5-12	2000	4490	Tue	197 755 755 30 30 = = 47586 75643 65689 ... 65748 93826 77711 = = 755 755 30 30 000	CW	(AB/SOB)
M01	7-12	1800	5320	Thu	197 8494 eee 849 849 30 30 = = 84003 77293 73662 ... 63877 99384 73309 = = 849 849 30 30 = =	CW	(SOB)
M01	7-12	2000	4490	Thu	197 854 854 30 30 = = 64885 67354 76533 ... 66343 78645 77958 = = 854 854 30 30 000	CW	(AB-FIN/SOB)
M01	9-12	1500	5810	Sat	197 ... unreadable	CW	(SOB)
M01	10-12	0700	5465	Sun	197 823 823 30 30 = = 83746 16348 94857 ... 25386 17263 54321 = = 823 823 30 30 000	CW	(AB-FIN/SOB)
M01	10-12	0715	9566	Sun	475 155 50 ...	CW	(T101/sse)
M01	14-12	1800	5320	Thu	197 131 131 30 30 = = ...	CW	(SOB)
M01	14-12	2000	4490	Thu	197 ... (too weak to copy)	CW	(AB-FIN)
M01	16-12	0715	9566	Sat	475 ...	CW	(T101)
M01	16-12	1500	5810	Sat	197 ... (too poor to copy)	CW	(SOB)
M01	17-12	0700	5465	Sun	197 557 557 30 30 = = 73820 69539 26785 ... 85050 95050 05050 = = 557 557 30 30 000	CW	(AB-FIN/SOB)
M01	17-12	0715	9566	Sun	475 ...	CW	(T101)
M01	23-12	1500	5810	Sat	197 601 601 30 30 = = 88574 66637 00194 ... 56470 01230 01015 = = 601 601 30 30 000	CW	(SOB/sse)
M01	24-12	0700	5465	Sun	197 101 101 30 30 = = 13342 22857 46354 ... 85768 00900 00321 = = 101 101 30 30 000	CW	(AB-FIN/SOB)
M01	26-12	1800	5320	Tue	197 ... too weak to copy	CW	(AB-FIN)
M01	26-12	2000	4490	Tue	197 854 854 30 30 = = 14525 14626 15238 ...	CW	(AB)
M01	28-12	1800	5320	Thu	197 365 365 30 30 = = 28637 19367 39173 47819 06184 ...	CW	(AB/SOB)
M01	30-12	1500	5810	Sat	197 369 369 30 30 = = 59867 10989 15345 ... 49877 17645 30988 = = 369 369 30 30 000	CW	(AB/SOB)
M01	31-12	0700	5465	Sun	197 903 903 30 30 = = 57637 10093 47653 ... 47645 24323 12300 = = 903 903 30 30 000	CW	(AB/SOB)
M01a	14-12	0923	4281	Thu	281 11212	CW	(sse)
M12	1-12	0010	14947	Fri	941 041 941 1 ...	CW	(HFD-J)
M12	1-12	0030	13447	Fri	941 041 941 1 ...	CW	(HFD-J)
M12	1-12	0050	12147	Fri	941 041 941 1 ...	CW	(HFD-J)
M12	1-12	2000	6792	Fri	780 780 780 1 3175 238 3175 238 89956 27018 45953 18588 ... 83311 30829 03245 000 000	CW	(AB/SOB)

M12	1-12	2020	5892	Fri	780 780 780 1 3175 238 3175 238 89956 27018 45953 18588 ... 83311 30829 03245 000 000	CW	(AB/SOB)
M12	1-12	2040	5092	Fri	780 780 780 1 3175 238 3175 238 89956 27018 45953 18588 ... 83311 30829 03245 000 000	CW	(AB/SOB)
M12	1-12	2200	5832	Fri	887 887 887 1 405 120 405 120 33406 44645 10202 ... 29396 58323 70552 000 000	CW	(AB/SOB)
M12	1-12	2220	6832	Fri	887 887 887 1 405 120 405 120 33406 44645 10202 ... 29396 58323 70552 000 000	CW	(AB/SOB)
M12	1-12	2240	7732	Fri	887 887 887 1 405 120 405 120 33406 44645 10202 ... 29396 58323 70552 000 000	CW	(AB/SOB)
M12	2-12	0700	10174	Sat	113 113 113 000	CW	(AB/HFD)
M12	2-12	0720	12174	Sat	113 113 113 000	CW	(AB/SOB/HFD)
M12	2-12	1800	11435	Sat	938 938 938 1 7587 71 7587 71 93200 67448 31264 ... 24423 05589 41993 000 000	CW	(AB/MPJ/SOB)
M12	2-12	1820	10598	Sat	938 938 938 1 7587 71 7587 71 93200 67448 31264 ... 24423 05589 41993 000 000	CW	(AB/MPJ/SOB)
M12	2-12	1840	9327	Sat	938 938 938 1 7587 71 7587 71 93200 67448 31264 ... 24423 05589 41993 000 000	CW	(AB/MPJ/SOB)
M12	2-12	2200	5832	Sat	887 887 887 1 405 120 405 120 33406 44645 10202 ... 29396 58323 70552 000 000	CW	(AB/SOB)
M12	2-12	2220	6832	Sat	887 887 887 1 405 120 405 120 33406 44645 10202 ... 29396 58323 70552 000 000	CW	(AB/SOB)
M12	2-12	2240	7732	Sat	887 887 887 1 405 120 405 120 33406 44645 10202 ... 29396 58323 70552 000 000	CW	(AB/SOB)
M12	3-12	0800	16234	Sun	242 242 242 000	CW	(AB/SOB/HFD)
M12	3-12	0820	17434	Sun	242 242 242 000	CW	(AB/SOB/HFD)
M12	3-12	2330	10329	Sun	133 133 133 1 694 131 694 131 ...	CW	(SOB)
M12	3-12	2350	9329	Sun	133 133 133 1 694 131 694 131 ...	CW	(SOB)
M12	4-12	1400	15909	Mon	969 969 969 1 549 76 549 76 15456 65689 11690 ... 82769 81332 72555 000 000	CW	(AB/MPJ/SOB/HFD)
M12	4-12	1420	14609	Mon	969 969 969 1 549 76 549 76 15456 65689 11690 ... 82769 81332 72555 000 000	CW	(AB/MPJ/SOB/HFD)
M12	4-12	1440	13909	Mon	969 969 969 1 549 76 549 76 15456 65689 11690 ... 82769 81332 72555 000 000	CW	(AB/MPJ/SOB/HFD)
M12	4-12	2300	9134	Mon	457 457 457 1 485 93 485 93 44623 44768 65395 ... 10596 31838 91459 000 000	CW	(SOB/HFD)
M12	4-12	2320	8134	Mon	457 457 457 1 485 93 485 93 44623 44768 65395 ... 10596 31838 91459 000 000	CW	(SOB/HFD)
M12	4-12	2340	7534	Mon	457 457 457 1 485 93 485 93 44623 44768 65395 ... 10596 31838 91459 000 000	CW	(SOB/HFD)
M12	5-12	0300	14354	Tue	311 311 311 1 ...	CW	(HFD-J)
M12	5-12	0320	12154	Tue	311 311 311 1 ...	CW	(HFD-J)
M12	5-12	0340	11154	Tue	311 311 311 1 ...	CW	(HFD-J)
M12	6-12	0700	10174	Wed	113 113 113 1 3400 125 3400 125 26964 73454 83835 ... 08346 79669 97105 000 000	CW	(AB/HFD)
M12	6-12	0720	12174	Wed	113 113 113 1 3400 125 3400 125 26964 73454 83835 ... 08346 79669 97105 000 000	CW	(AB/HFD)
M12	6-12	0740	13374	Wed	113 113 113 1 3400 125 3400 125 26964 73454 83835 ... 08346 79669 97105 000 000	CW	(AB/HFD)
M12	6-12	0800	16234	Wed	242 242 242 1 4043 126 4043 126 24494 73675 20514 ... 10973 29705 97898 000 000	CW	(AB)
M12	6-12	0820	17434	Wed	242 242 242 1 4043 126 4043 126 24494 73675 20514 ... 10973 29705 97898 000 000	CW	(AB)
M12	6-12	0840	18234	Wed	242 242 242 1 4043 126 4043 126 24494 73675 20514 ... 10973 29705 97898 000 000	CW	(AB)
M12	6-12	2000	6792	Wed	780 780 780 000	CW	(AB/SOB/HFD)
M12	6-12	2020	5892	Wed	780 780 780 000	CW	(AB/SOB/HFD)
M12	6-12	2310	11129	Wed	133 133 133 1 7835 63 7835 63 56670 25739 10278 ... 93639 14336 19992 000 000	CW	(SOB)
M12	6-12	2330	10329	Wed	133 133 133 1 7835 63 7835 63 56670 25739 10278 ... 93639 14336 19992 000 000	CW	(SOB)
M12	6-12	2350	9329	Wed	133 133 133 1 7835 63 7835 63 56670 25739 10278 ... 93639 14336 19992 000 000	CW	(SOB)
M12	7-12	0340	11154	Thu	311 1 679 152 50067 35924 17714 ... 72578 30997 000 000	CW	(sse)
M12	7-12	1110	13386	Thu	725 725 725 1 6035 92 6035 92 92462 17977 15500 ... 42097 58969 97616 000 000	CW	(AB/MPJ/SOB)
M12	7-12	1130	12189	Thu	725 725 725 1 6035 92 6035 92 92462 17977 15500 ... 42097 58969 97616 000 000	CW	(AB/MPJ/SOB)

M12	7-12	1150	11491	Thu	725 725 725 1 6035 92 6035 92 92462 17977 15500 ... 42097 58969 97616 000 000	CW	(AB/MPJ/SOB)
M12	7-12	1400	15909	Thu	969 969 969 1 549 76 549 76 15456 65689 11690 ... 82769 81332 72555 000 000	CW	(AB/SOB/sse
M12	7-12	1420	14609	Thu	969 969 969 1 549 76 549 76 15456 65689 11690 ... 82769 81332 72555 000 000	CW	(AB/SOB)
M12	7-12	1440	13909	Thu	969 969 969 1 549 76 549 76 15456 65689 11690 ... 82769 81332 72555 000 000	CW	(AB/SOB)
M12	7-12	2300	9134	Thu	457 457 457 1 485 93 485 93 44623 44768 65395 ... 10596 31838 91459 000 000	CW	(RL/SOB/HFD)
M12	7-12	2320	8134	Thu	457 457 457 1 485 93 485 93 44623 44768 65395 ... 10596 31838 91459 000 000	CW	(SOB/HFD)
M12	7-12	2340	7534	Thu	457 457 457 1 485 93 485 93 44623 44768 65395 ... 10596 31838 91459 000 000	CW	(SOB/HFD)
M12	8-12	2000	6792	Fri	780 780 780 000	CW	(AB/SOB)
M12	8-12	2020	5892	Fri	780 780 780 000	CW	(AB/SOB)
M12	8-12	2200	5832	Fri	887 887 887 1 5090 86 5090 86 72354 19281 77376 ... 67374 88086 23322 000 000	CW	(AB/SOB/HFD)
M12	8-12	2220	6832	Fri	887 887 887 1 5090 86 5090 86 72354 19281 77376 ... 67374 88086 23322 000 000	CW	(AB/SOB/HFD)
M12	8-12	2240	7732	Fri	887 887 887 1 5090 86 5090 86 72354 19281 77376 ... 67374 88086 23322 000 000	CW	(AB/SOB/HFD)
M12	9-12	0700	10174	Sat	113 113 113 1 3400 125 3400 125 26964 73454 83835 ... 08346 79669 97105 000 000	CW	(AB/SOB)
M12	9-12	0720	12174	Sat	113 113 113 1 3400 125 3400 125 26964 73454 83835 ... 08346 79669 97105 000 000	CW	(AB/SOB)
M12	9-12	0740	13374	Sat	113 113 113 1 3400 125 3400 125 26964 73454 83835 ... 08346 79669 97105 000 000	CW	(AB/SOB)
M12	9-12	1800	11435	Sat	938 938 938 1 7403 78 7403 78 ...	CW	(SOB)
M12	9-12	1820	10598	Sat	938 938 938 1 7403 78 7403 78 ...	CW	(SOB)
M12	9-12	1840	9327	Sat	938 938 938 1 7403 78 7403 78 ...	CW	(SOB)
M12	9-12	2200	5832	Sat	887 887 887 1 5090 86 5090 86 72354 19281 77376 ... 67374 88086 23322 000 000	CW	(AB/SOB)
M12	9-12	2220	6832	Sat	887 887 887 1 5090 86 5090 86 72354 19281 77376 ... 67374 88086 23322 000 000	CW	(AB/SOB)
M12	9-12	2240	7732	Sat	887 887 887 1 5090 86 5090 86 72354 19281 77376 ... 67374 88086 23322 000 000	CW	(AB/SOB)
M12	10-12	0800	16234	Sun	242 242 242 1 4043 126 4043 126 24494 73675 20514 ... 10973 29705 97898 000 000	CW	(AB/SOB)
M12	10-12	0820	17434	Sun	242 242 242 1 4043 126 4043 126 24494 73675 20514 ... 10973 29705 97898 000 000	CW	(AB/SOB)
M12	10-12	0840	18234	Sun	242 242 242 1 4043 126 4043 126 24494 73675 20514 ... 10973 29705 97898 000 000	CW	(AB/SOB)
M12	10-12	2310	11129	Sun	133 133 133 1 7835 63 7835 63 56670 25739 10278 ... 93639 14336 19992 000 000	CW	(SOB)
M12	10-12	2330	10329	Sun	133 133 133 1 7835 63 7835 63 56670 25739 10278 ... 93639 14336 19992 000 000	CW	(SOB)
M12	10-12	2350	9329	Sun	133 133 133 1 7835 63 7835 63 56670 25739 10278 ... 93639 14336 19992 000 000	CW	(SOB)
M12	11-12	1400	15909	Mon	969 969 969 000	CW	(AB)
M12	11-12	1420	14609	Mon	969 969 969 000	CW	(AB)
M12	11-12	2300	9134	Mon	457 457 457 000	CW	(AB)
M12	11-12	2320	8134	Mon	457 457 457 000	CW	(AB)
M12	13-12	0700	10174	Wed	113 113 113 1 3400 125 3400 125 26964 73454 83835 ... 08346 79669 97105 000 000	CW	(AB)
M12	13-12	0720	12174	Wed	113 113 113 1 3400 125 3400 125 26964 73454 83835 ... 08346 79669 97105 000 000	CW	(AB)
M12	13-12	0740	13374	Wed	113 113 113 1 3400 125 3400 125 26964 73454 83835 ... 08346 79669 97105 000 000	CW	(AB)
M12	13-12	0800	16234	Wed	242 242 242 1 4043 126 4043 126 24494 73675 20514 ... 10973 29705 97898 000 000	CW	(AB)
M12	13-12	0820	17434	Wed	242 242 242 1 4043 126 4043 126 24494 73675 20514 ... 10973 29705 97898 000 000	CW	(AB)
M12	13-12	0840	18234	Wed	242 242 242 1 4043 126 4043 126 24494 73675 20514 ... 10973 29705 97898 000 000	CW	(AB)
M12	13-12	2000	6792	Wed	780 780 780 1 717 173 717 173 72971 91241 52719 ... 33360 10829 42033 000 000	CW	(AB/SOB)
M12	13-12	2020	5892	Wed	780 780 780 1 717 173 717 173 72971 91241 52719 ... 33360 10829 42033 000 000	CW	(AB/SOB)
M12	13-12	2040	5092	Wed	780 780 780 1 717 173 717 173 72971 91241 52719 ... 33360 10829 42033 000 000	CW	(AB/SOB)
M12	13-12	2310	11129	Wed	133 133 133 1 723 52 723 52 98290 53709 51910 ... 263981 28764 76732 000 000	CW	(RL/SOB)
M12	13-12	2330	10329	Wed	133 133 133 1 723 52 723 52 98290 53709 51910 ... 263981 28764 76732 000 000	CW	(RL/SOB)

M12	13-12	2350	9329	Wed	133 133 133 1 723 52 723 52 98290 53709 51910 ... 263981 28764 76732 000 000	CW	(SOB)
M12	14-12	1110	13386	Thu	725 725 725 1 4094 91 4094 91 36429 95209 68518 ... 01400 75183 16820 000 000	CW	(AB/SOB)
M12	14-12	1130	12189	Thu	725 725 725 1 4094 91 4094 91 36429 95209 68518 ... 01400 75183 16820 000 000	CW	(AB/SOB)
M12	14-12	1150	11491	Thu	725 725 725 1 4094 91 4094 91 36429 95209 68518 ... 01400 75183 16820 000 000	CW	(AB/SOB)
M12	14-12	1400	15909	Thu	969 969 969 000	CW	(AB/MPJ/SOB)
M12	14-12	1420	14609	Thu	969 969 969 000	CW	(AB/MPJ/SOB)
M12	14-12	2300	9134	Thu	457 457 457 000	CW	(AB)
M12	14-12	2320	8134	Thu	457 457 457 000	CW	(AB)
M12	15-12	2000	6792	Fri	780 780 780 1 717 173 717 173 72971 91241 52719 ... 33360 10829 42033 000 000	CW	(AB/SOB)
M12	15-12	2020	5892	Fri	780 780 780 1 717 173 717 173 72971 91241 52719 ... 33360 10829 42033 000 000	CW	(AB/SOB)
M12	15-12	2040	5092	Fri	780 780 780 1 717 173 717 173 72971 91241 52719 ... 33360 10829 42033 000 000	CW	(AB/SOB)
M12	15-12	2200	5832	Fri	887 887 887 1 5090 86 5090 86 72354 19281 77376 ... 67374 88086 23322 000 000 Restart after group 3.	CW	(AB/RL/SOB)
M12	15-12	2220	6832	Fri	887 887 887 1 5090 86 5090 86 72354 19281 77376 ... 67374 88086 23322 000 000	CW	(AB/RL/SOB)
M12	15-12	2240	7732	Fri	887 887 887 1 5090 86 5090 86 72354 19281 77376 ... 67374 88086 23322 000 000	CW	(AB/RL/SOB)
M12	16-12	0700	10174	Sat	113 113 113 1 3400 125 3400 125 26964 73454 83835 ... 08346 79669 97105 000 000	CW	(AB)
M12	16-12	0720	12174	Sat	113 113 113 1 3400 125 3400 125 26964 73454 83835 ... 08346 79669 97105 000 000	CW	(AB)
M12	16-12	0740	13374	Sat	113 113 113 1 3400 125 3400 125 26964 73454 83835 ... 08346 79669 97105 000 000	CW	(AB)
M12	16-12	1800	11435	Sat	938 938 938 1 6440 763 6440 73 56644 48544 88143 ... 02598 81448 17646 000 000	CW	(AB)
M12	16-12	1820	10598	Sat	938 938 938 1 6440 763 6440 73 56644 48544 88143 ... 02598 81448 17646 000 000	CW	(AB)
M12	16-12	1840	9327	Sat	938 938 938 1 6440 763 6440 73 56644 48544 88143 ... 02598 81448 17646 000 000	CW	(AB)
M12	16-12	2200	5832	Sat	887 887 887 1 5090 86 5090 86 72354 19281 77376 ... 67374 88086 23322 000 000	CW	(AB/SOB)
M12	16-12	2220	6832	Sat	887 887 887 1 5090 86 5090 86 72354 19281 77376 ... 67374 88086 23322 000 000	CW	(AB/SOB)
M12	16-12	2240	7732	Sat	887 887 887 1 5090 86 5090 86 72354 19281 77376 ... 67374 88086 23322 000 000	CW	(AB/SOB)
M12	17-12	0800	16234	Sun	242 242 242 1 4043 126 4043 126 24494 73675 20514 ... 10973 29705 97898 000 000	CW	(AB/SOB)
M12	17-12	0820	17434	Sun	242 242 242 1 4043 126 4043 126 24494 73675 20514 ... 10973 29705 97898 000 000	CW	(AB/SOB)
M12	17-12	0840	18234	Sun	242 242 242 1 4043 126 4043 126 24494 73675 20514 ... 10973 29705 97898 000 000	CW	(AB/SOB)
M12	17-12	2310	11129	Sun	133 133 133 1 723 52 723 52 98290 53709 51910 ... 263981 28764 76732 000 000	CW	(SOB)
M12	17-12	2330	10329	Sun	133 133 133 1 723 52 723 52 98290 53709 51910 ... 263981 28764 76732 000 000	CW	(SOB)
M12	17-12	2350	9329	Sun	133 133 133 1 723 52 723 52 98290 53709 51910 ... 263981 28764 76732 000 000	CW	(SOB)
M12	18-12	1400	15909	Mon	969 969 969 1 7232 71 7232 71 49606 34196 99379 ... 40199 29557 59035 000 000	CW	(AB/SOB)
M12	18-12	1420	14609	Mon	969 969 969 1 7232 71 7232 71 49606 34196 99379 ... 40199 29557 59035 000 000	CW	(AB/SOB)
M12	18-12	1440	13909	Mon	969 969 969 1 7232 71 7232 71 49606 34196 99379 ... 40199 29557 59035 000 000	CW	(AB/SOB)
M12	18-12	2300	9134	Mon	457 457 457 1 614 85 614 85 28759 87605 48124 ... 86253 03587 61617 000 000	CW	(SOB)
M12	18-12	2320	8134	Mon	457 457 457 1 614 85 614 85 28759 87605 48124 ... 86253 03587 61617 000 000	CW	(SOB)
M12	18-12	2340	7534	Mon	457 457 457 1 614 85 614 85 28759 87605 48124 ... 86253 03587 61617 000 000	CW	(SOB)
M12	20-12	0700	10174	Wed	113 113 113 000	CW	(AB)
M12	20-12	0720	12174	Wed	113 113 113 000	CW	(AB)
M12	20-12	0800	16234	Wed	242 242 242 000	CW	(AB)
M12	20-12	0820	17434	Wed	242 242 242 000	CW	(AB)
M12	20-12	2000	6792	Wed	780 780 780 1 717 173 717 173 72971 91241 52719 ... 33360 10829 42033 000 000	CW	(AB/SOB)
M12	20-12	2020	5892	Wed	780 780 780 1 717 173 717 173 72971 91241 52719 ... 33360 10829 42033 000 000	CW	(AB/SOB)

M12	20-12	2040	5092	Wed	780 780 780 1 717 173 717 173 72971 91241 52719 ... 33360 10829 42033 000 000	CW	(AB/SOB)
M12	21-12	1110	13386	Thu	725 725 725 1 9901 93 9901 93 46970 57435 32701 ... 83419 88374 58136 000 000	CW	(AB)
M12	21-12	1130	12189	Thu	725 725 725 1 9901 93 9901 93 46970 57435 32701 ... 83419 88374 58136 000 000	CW	(AB)
M12	21-12	1150	11491	Thu	725 725 725 1 9901 93 9901 93 46970 57435 32701 ... 83419 88374 58136 000 000	CW	(AB)
M12	21-12	1400	15909	Thu	969 969 969 1 7232 71 7232 71 49606 34196 99379 ... 40199 29557 59035 000 000	CW	(AB)
M12	21-12	1420	14609	Thu	969 969 969 1 7232 71 7232 71 49606 34196 99379 ... 40199 29557 59035 000 000	CW	(AB/MPJ/SOB)
M12	21-12	1440	13909	Thu	969 969 969 1 7232 71 7232 71 49606 34196 99379 ... 40199 29557 59035 000 000	CW	(AB/MPJ/SOB)
M12	21-12	2300	9134	Thu	457 457 457 1 614 85 614 85 28759 87605 48124 ... 86253 03587 61617 000 000	CW	(SOB)
M12	21-12	2320	8134	Thu	457 457 457 1 614 85 614 85 28759 87605 48124 ... 86253 03587 61617 000 000	CW	(SOB)
M12	21-12	2340	7534	Thu	457 457 457 1 614 85 614 85 28759 87605 48124 ... 86253 03587 61617 000 000	CW	(SOB)
M12	22-12	2000	6792	Fri	780 780 780 1 717 173 717 173 72971 91241 52719 ... 33360 10829 42033 000 000	CW	(AB/SOB)
M12	22-12	2020	5892	Fri	780 780 780 1 717 173 717 173 72971 91241 52719 ... 33360 10829 42033 000 000	CW	(AB/SOB)
M12	22-12	2040	5092	Fri	780 780 780 1 717 173 717 173 72971 91241 52719 ... 33360 10829 42033 000 000	CW	(AB/SOB)
M12	22-12	2200	5832	Fri	887 887 887 000	CW	(AB/SOB)
M12	22-12	2220	6832	Fri	887 887 887 000	CW	(AB/SOB)
M12	23-12	0700	10174	Sat	113 113 113 000	CW	(AB/SOB)
M12	23-12	0720	12174	Sat	113 113 113 000	CW	(AB/SOB)
M12	23-12	1800	11435	Sat	938 1 1194 77 46898 79876 94753 ... 48142 77790 82127 000 000	CW	(AB/SOB)
M12	23-12	1820	10598	Sat	938 1 1194 77 46898 79876 94753 ... 48142 77790 82127 000 000	CW	(AB/SOB)
M12	23-12	1840	9327	Sat	938 1 1194 77 46898 79876 94753 ... 48142 77790 82127 000 000	CW	(AB/SOB)
M12	23-12	2200	5832	Sat	887 887 887 000	CW	(AB/SOB)
M12	23-12	2220	6832	Sat	887 887 887 000	CW	(AB/SOB)
M12	23-12	2310	11129	Sat	133 133 133 1 243 217 243 217 59347 12457 79371 ... 68333 72322 75715 000 000	CW	(SOB)
M12	23-12	2330	10329	Sat	133 133 133 1 243 217 243 217 59347 12457 79371 ... 68333 72322 75715 000 000	CW	(SOB)
M12	23-12	2350	9329	Sat	133 133 133 1 243 217 243 217 59347 12457 79371 ... 68333 72322 75715 000 000	CW	(SOB)
M12	24-12	0800	16234	Sun	242 242 242 000	CW	(AB/SOB)
M12	24-12	0820	17434	Sun	242 242 242 000	CW	(AB/SOB)
M12	24-12	2310	11129	Sun	133 133 133 1 7388 98 7388 98 76021 55904 90578 ... 66256 78489 24327 000 000	CW	(SOB)
M12	24-12	2330	10329	Sun	133 133 133 1 7388 98 7388 98 76021 55904 90578 ... 66256 78489 24327 000 000	CW	(SOB)
M12	24-12	2350	9329	Sun	133 133 133 1 7388 98 7388 98 76021 55904 90578 ... 66256 78489 24327 000 000	CW	(SOB)
M12	25-12	0010	14947	Mon	941 941 941 1 9974 193 9974 193 ...	CW	(SOB)
M12	25-12	0030	13447	Mon	941 941 941 1 9974 193 9974 193 ...	CW	(SOB)
M12	25-12	0050	12147	Mon	941 941 941 1 9974 193 9974 193 ...	CW	(SOB)
M12	25-12	1400	15909	Mon	969 969 969 1 8066 89 8066 89 25388 67970 30809 ... 67322 18802 58788 000 000	CW	(AB/SOB)
M12	25-12	1420	14609	Mon	969 969 969 1 8066 89 8066 89 25388 67970 30809 ... 67322 18802 58788 000 000	CW	(AB/SOB)
M12	25-12	1440	13909	Mon	969 969 969 1 8066 89 8066 89 25388 67970 30809 ... 67322 18802 58788 000 000	CW	(AB/SOB)
M12	25-12	2300	9134	Mon	457 457 457 1 248 111 248 111 85286 22974 13697 ... 01875 93146 78516 000 000	CW	(SOB)
M12	25-12	2320	8134	Mon	457 457 457 1 248 111 248 111 85286 22974 13697 ... 01875 93146 78516 000 000	CW	(SOB)
M12	25-12	2340	7534	Mon	457 457 457 1 248 111 248 111 85286 22974 13697 ... 01875 93146 78516 000 000	CW	(SOB)
M12	27-12	0700	10174	Wed	113 113 113 000	CW	(AB/SOB)
M12	27-12	0720	12174	Wed	113 113 113 000	CW	(AB/SOB)
M12	27-12	0800	16234	Wed	242 242 242 1 9598 91 9598 91 49342 13070 17966 ... 72035 34866 59352 000 000	CW	(AB/SOB)

M12	27-12	0820	17434	Wed	242 242 242 1 9598 91 9598 91 49342 13070 17966 ... 72035 34866 59352 000 000	CW	(AB/SOB)
M12	27-12	0840	18234	Wed	242 242 242 1 9598 91 9598 91 49342 13070 17966 ... 72035 34866 59352 000 000	CW	(AB/SOB)
M12	27-12	2000	6792	Wed	780 780 780 000	CW	(AB/SOB)
M12	27-12	2020	5892	Wed	780 780 780 000	CW	(AB/SOB)
M12	28-12	1110	13386	Thu	725 725 725 1 7821 91 7821 91 27334 76227 29851 ... 24847 82683 39692 000 000	CW	(AB/MPJ/SOB)
M12	28-12	1130	12189	Thu	725 725 725 1 7821 91 7821 91 27334 76227 29851 ... 24847 82683 39692 000 000	CW	(AB/MPJ/SOB)
M12	28-12	1150	11491	Thu	725 725 725 1 7821 91 7821 91 27334 76227 29851 ... 24847 82683 39692 000 000	CW	(AB/MPJ/SOB)
M12	28-12	1400	15909	Thu	969 969 969 1 8066 89 8066 89 25388 67970 30809 ... 67322 18802 58788 000 000	CW	(AB/SOB)
M12	28-12	1420	14609	Thu	969 969 969 1 8066 89 8066 89 25388 67970 30809 ... 67322 18802 58788 000 000	CW	(AB/SOB)
M12	28-12	1440	13909	Thu	969 969 969 1 8066 89 8066 89 25388 67970 30809 ... 67322 18802 58788 000 000	CW	(AB/SOB)
M12	28-12	2300	9134	Thu	457 457 457 1 248 111 248 111 85286 22974 13697 ... 01875 93146 78516 000 000	CW	(AB/SOB)
M12	28-12	2320	8134	Thu	457 457 457 1 248 111 248 111 85286 22974 13697 ... 01875 93146 78516 000 000	CW	(AB/SOB)
M12	28-12	2340	7534	Thu	457 457 457 1 248 111 248 111 85286 22974 13697 ... 01875 93146 78516 000 000	CW	(AB/SOB)
M12	29-12	2000	6792	Fri	780 780 780 000	CW	(AB/SOB)
M12	29-12	2020	5892	Fri	780 780 780 000	CW	(AB/SOB)
M12	29-12	2200	5832	Fri	887 887 887 1 333 95 333 95 66116 68533 85483 ... 28044 93337 24342 000 000 Restart after 2 min	CW	(AB/SOB)
M12	29-12	2220	6832	Fri	887 887 887 1 333 95 333 95 66116 68533 85483 ... 28044 93337 24342 000 000	CW	(AB/SOB)
M12	29-12	2240	7732	Fri	887 887 887 1 333 95 333 95 66116 68533 85483 ... 28044 93337 24342 000 000	CW	(AB/SOB)
M12	30-12	0700	10174	Sat	113 113 113 000	CW	(AB/SOB)
M12	30-12	0720	12174	Sat	113 113 113 000	CW	(AB/SOB)
M12	30-12	2200	5832	Sat	887 887 887 1 333 95 333 95 66116 68533 85483 ... 28044 93337 24342 000 000	CW	(AB/SOB)
M12	30-12	2220	6832	Sat	887 887 887 1 333 95 333 95 66116 68533 85483 ... 28044 93337 24342 000 000	CW	(AB/SOB)
M12	30-12	2240	7732	Sat	887 887 887 1 333 95 333 95 66116 68533 85483 ... 28044 93337 24342 000 000	CW	(AB/SOB)
M12	31-12	0800	16234	Sun	242 242 242 1 9598 91 9598 91 49342 13070 17966 ... 72035 34866 59352 000 000	CW	(AB/SOB)
M12	31-12	0820	17434	Sun	242 242 242 1 9598 91 9598 91 49342 13070 17966 ... 72035 34866 59352 000 000	CW	(AB/SOB)
M12	31-12	0840	18234	Sun	242 242 242 1 9598 91 9598 91 49342 13070 17966 ... 72035 34866 59352 000 000	CW	(AB/SOB)
M12	31-12	2310	11129	Sun	133 133 133 1 243 217 243 217 59347 12457 79371 ... 68333 72322 75715 000 000	CW	(AB/SOB)
M12	31-12	2330	10329	Sun	133 133 133 1 243 217 243 217 59347 12457 79371 ... 68333 72322 75715 000 000	CW	(AB/SOB)
M12	31-12	2350	9329	Sun	133 133 133 1 243 217 243 217 59347 12457 79371 ... 68333 72322 75715 000 000	CW	(AB/SOB)
M14	1-12	0500	12211	Fri	952 806 806 59 59 == 82446 11459 85451 ... 57822 47716 21631 == 806 806 59 59 00000	CW	(Subilo/AB)
M14	1-12	0520	10243	Fri	952 806 806 59 59 == 82446 11459 85451 ... 57822 47716 21631 == 806 806 59 59 00000	CW	(Subilo/AB)
M14	2-12	1220	11073	Sat	352 978 31 == 62044 76564 55353 82621 ... 85307 07889 == 978 31 00000 test	CW	(sse)
M14	4-12	0500	12211	Mon	952 713 713 64 64 == 30863 68287 00933 ... 01653 14129 22421 == 713 713 64 64 00000	CW	(Subilo/AB)
M14	4-12	0520	10243	Mon	952 713 713 64 64 == 30863 68287 00933 ... 01653 14129 22421 == 713 713 64 64 00000	CW	(Subilo/AB)
M14	5-12	0500	12211	Tue	952 713 713 65 65 == 25808 14648 78736 ... 89200 44254 27937 == 713 713 65 65 00000	CW	(Subilo/AB)

M14	5-12	0520	10243	Tue	952 713 713 65 65 == 25808 14648 78736 ... 89200 44254 27937 == 713 713 65 65 00000	CW	(Subilo/AB)
M14	6-12	0500	12211	Wed	952 143 143 57 57 == 56251 59684 74973 ... 46778 73268 64112 == 143 143 57 57 00000	CW	(Subilo/AB)
M14	6-12	0520	10243	Wed	952 143 143 57 57 == 56251 59684 74973 ... 46778 73268 64112 == 143 143 57 57 00000	CW	(Subilo/AB)
M14	7-12	0500	12211	Thu	952 768 768 54 54 == 65461 66457 72303 ... 29043 96760 09880 == 768 768 54 54 00000	CW	(Subilo/AB)
M14	7-12	0520	10243	Thu	952 768 768 54 54 == 65461 66457 72303 ... 29043 96760 09880 == 768 768 54 54 00000	CW	(Subilo/AB)
M14	8-12	0500	12211	Fri	952 410 410 51 51 == 65461 66457 72303 ... 62893 11245 09781 == 410 410 51 51 00000	CW	(Subilo/AB)
M14	8-12	0520	10243	Fri	952 410 410 51 51 == 65461 66457 72303 ... Off after group 37	CW	(Subilo/AB)
M14	9-12	1200	11073	Sat	352 907 32 == 50671 55250 73542 ... 52962 15728 27907 == 907 32 00000	CW	(sse)
M14	11-12	0500	12211	Mon	952 (R4m) 2m22s silence 952 (R1m) 376 376 58 58 == 83393 39919 88143 ... 44202 11545 90028 == 376 376 58 58 00000	CW	(Subilo/AB)
M14	11-12	0520	10243	Mon	952 376 376 58 58 == 83393 39919 88143 ... 44202 11545 90028 == 376 376 58 58 00000	CW	(Subilo/AB)
M14	12-12	0500	12211	Tue	952 804 804 63 63 == 29597 08847 15128 ... 50359 33966 80555 == 804 804 63 63 00000	CW	(Subilo/AB)
M14	12-12	0520	10243	Tue	952 804 804 63 63 == 29597 08847 15128 ... 50359 33966 80555 == 804 804 63 63 00000	CW	(Subilo/AB)
M14	13-12	0500	12211	Wed	952 637 637 51 51 == 35754 64949 55737 ... 96367 56827 64262 == 637 637 51 51 00000	CW	(Subilo/AB)
M14	13-12	0520	10243	Wed	952 637 637 51 51 == 35754 64949 55737 ... 96367 56827 64262 == 637 637 51 51 00000	CW	(Subilo/AB)
M14	14-12	0500	12211	Thu	952 140 140 52 52 == 53206 77665 46518 ... 14072 32973 37852 == 140 140 52 52 00000	CW	(Subilo/AB)
M14	14-12	0520	10243	Thu	952 140 140 52 52 == 53206 77665 46518 ... 14072 32973 37852 == 140 140 52 52 00000	CW	(Subilo/AB)
M14	15-12	0500	12211	Fri	No transmission	CW	(Subilo/AB)
M14	15-12	0520	10243	Fri	952 387 387 56 56 == 50365 30340 56758 ... 22946 34423 20009 == 387 387 56 56 00000	CW	(Subilo/AB)
M14	16-12	1300	11073	Sat	352 186 34 == 65879 06730 66237 ... 24380 32503 == 186 34 00000 test	CW	(sse)
M14	18-12	0500	12211	Mon	Largely unreadable	CW	(Subilo/AB)
M14	18-12	0520	10243	Mon	No transmission	CW	(Subilo/AB)
M14	19-12	0500	12211	Tue	952 183 183 52 52 == 82774 76337 29892 ... 24693 44577 62980 == 183 183 52 52 00000	CW	(Subilo/AB)
M14	19-12	0520	10243	Tue	952 183 183 52 52 == 82774 76337 29892 ... 24693 44577 62980 == 183 183 52 52 00000	CW	(Subilo/AB)
M14	20-12	0500	12211	Wed	952 674 674 52 52 == 39012 56064 37650 ... 06054 12627 43181 == 674 674 52 52 00000	CW	(Subilo/AB)

M14	20-12	0520	10243	Wed	952 674 674 52 52 == 39012 56064 37650 ... 06054 12627 43181 == 674 674 52 52 00000	CW	(Subilo/AB)
M14	20-12	1050	11073	Wed	352 907 907 32 32 == 50671 55250 73542 ... 52962 15728 27907 == 907 907 32 32 00000	CW	(PY)
M14	21-12	0500	12211	Thu	Not monitored	CW	(Subilo/AB)
M14	21-12	0520	10243	Thu	952 180 180 52 52 == 67299 50331 65460 ... 41745 84599 39999 == 180 180 52 52 00000	CW	(Subilo/AB)
M14	22-12	0500	12211	Fri	952 746 746 51 51 == 99194 31276 29260 ... 57053 22434 16638 == 746 746 51 51 00000	CW	(Subilo/AB)
M14	22-12	0520	10243	Fri	952 746 746 51 51 == 99194 31276 29260 ... 57053 22434 16638 == 746 746 51 51 00000	CW	(Subilo/AB)
M14	22-12	0727	9463	Fri	801 236 236 45 45 == 44623 90193 39140 ... 20495 98706 18455 = 236 45 801 907 907 15 15 == 85202 45562 51995 ... 18333 97833 96540 = 907 907 15 15 00000	CW	(PY)
M14	23-12	1315	11073	Sat	352 794 794 35 35 == 04696 52532 54208 ... 99404 07745 40950 == 794 794 35 35 00000	CW	(PY)
M14	27-12	0500	12211	Wed	952 103 58 = = 66366 31762 30880 ... 37764 42264 87746 = = 103 58 00000	CW	(sse)
M14	29-12	0500	12211	Fri	952 610 610 51 51 == 29815 85125 36876 ... 55340 11682 35032 = = 610 610 51 51 (no closing nulls)	CW	(Subilo/AB)
M14	29-12	0520	10243	Fri	Not monitored	CW	(Subilo/AB)
M14	30-12	1200	11073	Sat	352 469 37 = = 72018 19447 48935 ... 36468 52864 87437 == 469 37 00000	CW	(sse/PY)
M14	30-12	1230	9371	Sat	11073 12:00 352 469 37 = = 72018 19447 48935 ... 36468 52864 87437 == 469 37 00000	CW	(sse)
M14d	19-12	0730	10755	Tue	975 975 975 32069 048 048 36 36 == 34841 38986 28657 ... 85357 90836 61937 = = 048 048 36 36 00000. Several restarts	CW	(PY)
M14d	21-12	0755	11073	Thu	352 45092 791 40 == 33152 89507 67760 ... 56259 19596 off.	CW	(sse/PY)
M14d	21-12	0801	11073	Thu	352 (R1m) 78908 64813 88443 ... 43108 off	CW	(sse/PY)
M14d	21-12	0804	11073	Thu	352 (R1m14s) off 08:05 352 (R1m17s) 29345 53664 ... 31317 == 791 40 00000 several restarts	CW	(sse)
M21	8-12	1827	4865.5	Fri	Russian Air Defense =992127??8?????	CW	(F50IH)
M21	17-12	0436	4865.5	Sun	=990737??8????? =990738??8????? =990739??8????? =990740??8?????	CW	(SOB)
M21	23-12	0702	5980.5	Sat	Russian Air Defense =991002??8?????	CW	(F50IH)
M22	17-12	0427	2680	Sun	VVV DE 4XZ 4XZ ==	CW	(SOB)
M22	17-12	0431	4331	Sun	VVV DE 4XZ 4XZ ==	CW	(SOB)
M22	17-12	0435	6607	Sun	VVV DE 4XZ 4XZ ==	CW	(SOB)
M32	16-12	0931	11515	Sat	SA9Y SA9Y SA9Y DE QU8D QU8D K RK WZYK WZYK WZYK DE QU8D QU8D K RK 6SZE 6SZE 6SZE DE QU8D QU8D K RK	CW	(AB)
M32a	30-12	0914	7657	Sat	XXX RDL EDL RDL 18145 75084 AZOVOChINK 9221 6218 K UUUU XXX XXX into CIS 36-50 traffic	FSK CW	(AB)
M42	1-12	1013	16304	Fri	Russian diplo. Selcal	Serdolik v2	(AB/RO)
M42	1-12	1018	16226	Fri	Russian diplo	OFDM-112	(AB)
M42	1-12	1029	16302	Fri	Russian diplo	Serdolik v2	(AB/RO)
M42	1-12	1034	16226	Fri	Russian diplo	OFDM-112	(AB/RO)

M42	1-12	1036	16302	Fri	Russian diplo	Serdolik v2	(RO)
M42	5-12	0921	13424	Tue	Russian diplo	MFSK-66	(RO)
M42	6-12	1117	14650	Wed	Russian diplo	Serdolik v2	(RXR)
M42	7-12	0826	17519	Thu	Russian diplo	Serdolik v2	(RO)
M42	7-12	0828	16026	Thu	Russian diplo	Serdolik v2	(RO)
M42	7-12	0834	16028	Thu	Russian diplo. Selcal	Serdolik v2	(RO)
M42	7-12	0938	18197	Thu	Russian diplo	MFSK-66	(RO)
M42	8-12	0835	12195	Fri	Russian diplo	MFSK-66	(AB/RO)
M42	10-12	1022	14441	Sun	Russian diplo	OFDM-45	(RO)
M42	11-12	0946	14686	Mon	Russian diplo	Serdolik v2	(RXR)
M42	13-12	1425	11071	Wed	Russian diplo	Serdolik v2	(sse)
M42	14-12	1049	10860	Thu	Russian diplo	MFSK-66	(RO)
M42	15-12	0815	14826	Fri	Russian diplo. Selcal	Serdolik v2	(AB)
M42	15-12	0817	14828	Fri	Russian diplo	Serdolik v2	(AB)
M42	15-12	0839	14828	Fri	Russian diplo	Serdolik v2	(AB)
M42	21-12	0729	16315	Thu	Russian diplo. Selcal	Serdolik v2	(AB)
M42	21-12	0732	16315	Thu	Russian diplo. Selcal	Serdolik v2	(AB)
M42	21-12	0736	16315	Thu	Russian diplo. Selcal	Serdolik v2	(AB)
M42	21-12	0739	16315	Thu	Russian diplo. Selcal	Serdolik v2	(AB)
M42	21-12	0740	16315	Thu	Russian diplo. Selcal	Serdolik v2	(AB)
M42	21-12	0743	16028	Thu	Russian diplo. Selcal	Serdolik v2	(AB)
M42	21-12	0744	16315	Thu	Russian diplo. Selcal	Serdolik v2	(AB)
M42	21-12	0746	16028	Thu	Russian diplo. Selcal	Serdolik v2	(AB)
M42	21-12	0753	16028	Thu	Russian diplo. Selcal	Serdolik v2	(AB)
M42	21-12	0758	16026	Thu	Russian diplo. Test	Serdolik v2	(AB)
M42	21-12	0819	16026	Thu	Russian diplo. Test	Serdolik v2	(AB)
M42	21-12	0820	17519	Thu	Russian diplo. Test	Serdolik v2	(AB)
M42	21-12	0822	16315	Thu	Russian diplo. Selcal	Serdolik v2	(AB)
M42	21-12	0824	16313	Thu	Russian diplo. Test	Serdolik v2	(AB)
M42	21-12	0831	16313	Thu	Russian diplo	Serdolik v2	(AB)
M42	21-12	0838	16026	Thu	Russian diplo. Test	Serdolik v2	(AB)
M42	21-12	0838	16313	Thu	Russian diplo	Serdolik v2	(AB)
M42	21-12	0839	17519	Thu	Russian diplo. Selcal	Serdolik v2	(AB)
M42	21-12	0842	16028	Thu	Russian diplo. Selcal	Serdolik v2	(AB)
M42	21-12	0844	16026	Thu	Russian diplo. Test	Serdolik v2	(AB)
M42	21-12	0845	16315	Thu	Russian diplo. Selcal	Serdolik v2	(AB)
M42	21-12	0845	17519	Thu	Russian diplo. Test	Serdolik v2	(AB)
M42	21-12	0847	16313	Thu	Russian diplo	Serdolik v2	(AB)
M42	21-12	0849	16026	Thu	Russian diplo. Test	Serdolik v2	(AB)
M42	21-12	0849	17519	Thu	Russian diplo. Test	Serdolik v2	(AB)
M42	21-12	0852	16315	Thu	Russian diplo. Selcal	Serdolik v2	(AB)
M42	21-12	0853	16028	Thu	Russian diplo. Selcal	Serdolik v2	(AB)

M42	21-12	0854	17521	Thu	Russian diplo. Selcal	Serdolik v2	(AB)
M42	21-12	0855	16313	Thu	Russian diplo. Test	Serdolik v2	(AB)
M42	21-12	0857	16026	Thu	Russian diplo. Test	Serdolik v2	(AB)
M42	21-12	0857	17519	Thu	Russian diplo. Test	Serdolik v2	(AB)
M42	21-12	0857	18230	Thu	Russian diplo. Test	Serdolik v2	(AB)
M42	21-12	0900	16315	Thu	Russian diplo. Selcal	Serdolik v2	(AB)
M42	21-12	0902	17519	Thu	Russian diplo. Test	Serdolik v2	(AB)
M42	21-12	0903	16313	Thu	Russian diplo	Serdolik v2	(AB)
M42	21-12	0908	16315	Thu	Russian diplo. Selcal	Serdolik v2	(AB)
M42	21-12	0909	18230	Thu	Russian diplo	Serdolik v2	(AB)
M42	21-12	0910	16028	Thu	Russian diplo. Selcal	Serdolik v2	(AB)
M42	21-12	0911	17521	Thu	Russian diplo. Selcal	Serdolik v2	(AB)
M42	21-12	0913	16028	Thu	Russian diplo. Selcal	Serdolik v2	(AB)
M42	21-12	0914	17521	Thu	Russian diplo. Selcal	Serdolik v2	(AB)
M42	21-12	0917	16028	Thu	Russian diplo. Selcal	Serdolik v2	(AB)
M42	21-12	0918	17521	Thu	Russian diplo. Selcal	Serdolik v2	(AB)
M42	21-12	0920	16028	Thu	Russian diplo. Selcal	Serdolik v2	(AB)
M42	21-12	1335	13422	Thu	Russian diplo. Selcal	Serdolik v2	(AB)
M42	21-12	1338	13422	Thu	Russian diplo. Selcal	Serdolik v2	(AB)
M42	21-12	1341	13422	Thu	Russian diplo. Selcal	Serdolik v2	(AB)
M42	21-12	1345	13422	Thu	Russian diplo. Selcal	Serdolik v2	(AB)
M42	21-12	1346	13420	Thu	Russian diplo	Serdolik v2	(AB)
M42	21-12	1418	13420	Thu	Russian diplo	Serdolik v2	(AB)
M42	21-12	1420	13376	Thu	Russian diplo. Selcal	Serdolik v2	(AB)
M42	21-12	1420	13420	Thu	Russian diplo	Serdolik v2	(AB)
M42	21-12	1422	13420	Thu	Russian diplo	Serdolik v2	(AB)
M42	21-12	1423	13376	Thu	Russian diplo. Selcal	Serdolik v2	(AB)
M42	21-12	1427	13376	Thu	Russian diplo. Selcal	Serdolik v2	(AB)
M42	21-12	1430	13376	Thu	Russian diplo. Selcal	Serdolik v2	(AB)
M51a	9-12	0900	3881	Sat	VVV VVV VVV DE FAV22 FAV22 FAV22 QLH 3881/6825 KHZ, 2 messages, CQ DE FAV22 VA	CW	(AB)
M51a	9-12	0900	6825	Sat	VVV VVV VVV DE FAV22 FAV22 FAV22 QLH 3881/6825 KHZ, 2 messages, CQ DE FAV22 VA	CW	(AB)
M51b	17-12	0508	6825	Sun	Five symbol groups //3881 kHz	CW	(SOB)
M51b	17-12	0600	3881	Sun	Five symbol groups //6825 kHz	CW	(SOB)
M89	29-12	1050	14805	Fri	i.p. GA K. R HR 7G GA 0002 = CL K. CK 49 24 1229 1 830 RMKS 3CZB TOZY 33 (unreadable) HW K. GA K R = = NA HW? ...	CW	(EW)
MX	2-12	1126	16331	Sat	Beacon C, Moscow	CW	(AB)
MX	2-12	1126	16331.7	Sat	Beacon D, Sevastopol	CW	(AB)
MX	2-12	1126	16331.9	Sat	Beacon S, Severomorsk	CW	(AB)
MX	12-12	0535	5153.7	Tue	Beacon D, Sevastopol	CW	(ChPa)
MX	12-12	1420	4558.4	Tue	Beacon M, Magadan	CW	(AB)

MX	12-12	1420	5154.2	Tue	Beacon F, Vladivostok	CW	(AB)
MX	12-12	1420	5154.4	Tue	Beacon M, Magadan	CW	(AB)
MX	12-12	1420	7039.2	Tue	Beacon F, Vladivostok	CW	(AB)
MX	12-12	1424	7508.7	Tue	Beacon D, Sevastopol	CW	(AB)
MX	12-12	1424	7508.9	Tue	Beacon S, Sevoromorsk	CW	(AB)
MX	12-12	1424	7509.1	Tue	Beacon A, Astrakhan	CW	(AB)
MX	12-12	1425	8494.9	Tue	Beacon S, Sevoromorsk	CW	(AB)
MX	12-12	1425	8497.8	Tue	Beacon L. St Petersburg	CW	(AB)
MX	12-12	1425	10871.7	Tue	Beacon D, Sevastopol	CW	(AB)
MX	12-12	1425	10871.9	Tue	Beacon S, Sevoromorsk	CW	(AB)
MX	12-12	1426	13557.7	Tue	Beacon D, Sevastopol	CW	(AB)
MX	12-12	1426	13557.9	Tue	Beacon S, Sevoromorsk	CW	(AB)
MX	12-12	1426	16331.7	Tue	Beacon D, Sevastopol	CW	(AB)
MX	12-12	1427	16331.9	Tue	Beacon S, Sevoromorsk	CW	(AB)
MX	12-12	1427	16332	Tue	Beacon C, Moscow	CW	(AB)
MX	12-12	1427	20047.7	Tue	Beacon D, Sevastopol	CW	(AB)
MX	12-12	1658	5153.9	Tue	Beacon S, Sevoromorsk	CW	(AB)
MX	17-12	0433	3593.7	Sun	Beacon L, St. Petersburg	CW	(ChPa)
MX	17-12	0438	5156.8	Sun	Beacon L, St. Petersburg	CW	(ChPa)
MX	17-12	0555	2001.2	Sun	Channel marker U and a long dash	CW	(SOB)
MX	18-12	0442	3595.9	Mon	Beacon S, Severomorsk	CW	(ChPa)
P03	1-12	0850	17120	Fri	Polish intel.	PSK	(AB)
P03	1-12	0855	17120	Fri	Polish intel.	PSK	(AB)
P03	2-12	1310	6524	Sat	Polish intel.	PSK	(AB)
P03	2-12	1315	6524	Sat	Polish intel.	PSK	(AB)
P03	3-12	1100	6433	Sun	Polish intel.	PSK	(AB)
P03	3-12	1105	6433	Sun	Polish intel.	PSK	(AB)
P03	3-12	1200	5779	Sun	Polish intel.	PSK	(AB)
P03	3-12	1205	5779	Sun	Polish intel.	PSK	(AB)
P03	3-12	1245	7469	Sun	Polish intel.	PSK	(AB)
P03	3-12	1250	7469	Sun	Polish intel.	PSK	(AB)
P03	3-12	1515	17535	Sun	Polish intel.	PSK	(AB)
P03	3-12	1520	17535	Sun	Polish intel.	PSK	(AB)
P03	4-12	1220	23031	Mon	Polish intel.	PSK	(AB)
P03	4-12	1225	23031	Mon	Polish intel.	PSK	(AB)
P03	5-12	0810	17120	Tue	Polish intel.	PSK	(AB)
P03	5-12	0815	17120	Tue	Polish intel.	PSK	(AB)
P03	5-12	1500	8800	Tue	Polish intel.	PSK	(AB)
P03	5-12	1505	8800	Tue	Polish intel.	PSK	(AB)
P03	5-12	1725	10429	Tue	Polish intel.	PSK	(AB)
P03	5-12	1730	10429	Tue	Polish intel.	PSK	(AB)
P03	6-12	0615	17120	Wed	Polish intel.	PSK	(AB)

P03	6-12	0620	17120	Wed	Polish intel.	PSK	(AB)
P03	6-12	1310	6524	Wed	Polish intel.	PSK	(AB)
P03	6-12	1315	6524	Wed	Polish intel.	PSK	(AB)
P03	8-12	0530	5371	Fri	Polish intel.	PSK	(TM)
P03	8-12	0535	5371	Fri	Polish intel.	PSK	(TM)
P03	8-12	0850	17120	Fri	Polish intel.	PSK	(AB)
P03	8-12	0855	17120	Fri	Polish intel.	PSK	(AB)
P03	8-12	1100	6433	Fri	Polish intel.	PSK	(AB)
P03	8-12	1105	6433	Fri	Polish intel.	PSK	(AB)
P03	8-12	1500	8800	Fri	Polish intel.	PSK	(AB)
P03	8-12	1505	8800	Fri	Polish intel.	PSK	(AB)
P03	8-12	1515	17535	Fri	Polish intel.	PSK	(AB)
P03	8-12	1520	17535	Fri	Polish intel.	PSK	(AB)
P03	9-12	1200	5779	Sat	Polish intel.	PSK	(AB)
P03	9-12	1205	5779	Sat	Polish intel.	PSK	(AB)
P03	9-12	1245	7469	Sat	Polish intel.	PSK	(AB)
P03	9-12	1250	7469	Sat	Polish intel.	PSK	(AB)
P03	9-12	1310	6524	Sat	Polish intel.	PSK	(AB)
P03	9-12	1315	6524	Sat	Polish intel.	PSK	(AB)
P03	10-12	0530	5371	Sun	Polish intel.	PSK	(TM)
P03	10-12	0535	5371	Sun	Polish intel.	PSK	(TM)
P03	10-12	1100	6433	Sun	Polish intel.	PSK	(AB)
P03	10-12	1105	6433	Sun	Polish intel.	PSK	(AB)
P03	10-12	1200	5779	Sun	Polish intel.	PSK	(AB)
P03	10-12	1205	5779	Sun	Polish intel.	PSK	(AB)
P03	10-12	1220	23031	Sun	Polish intel.	PSK	(AB)
P03	10-12	1225	23031	Sun	Polish intel.	PSK	(AB)
P03	10-12	1245	7469	Sun	Polish intel.	PSK	(AB)
P03	10-12	1250	7469	Sun	Polish intel.	PSK	(AB)
P03	10-12	1515	17535	Sun	Polish intel.	PSK	(AB)
P03	10-12	1520	17535	Sun	Polish intel.	PSK	(AB)
P03	10-12	1725	10429	Sun	Polish intel.	PSK	(AB)
P03	10-12	1730	10429	Sun	Polish intel.	PSK	(AB)
P03	10-12	1950	9431	Sun	Polish intel.	PSK	(AB)
P03	10-12	1955	9431	Sun	Polish intel.	PSK	(AB)
P03	11-12	1220	23031	Mon	Polish intel.	PSK	(AB-POL)
P03	11-12	1225	23031	Mon	Polish intel.	PSK	(AB-POL)
P03	12-12	0430	6252	Tue	Polish intel.	PSK	(TM)
P03	12-12	0435	6252	Tue	Polish intel.	PSK	(TM)
P03	12-12	0635	25060	Tue	Polish intel.	PSK	(AB-POL)
P03	12-12	0640	25060	Tue	Polish intel.	PSK	(AB-POL)
P03	12-12	0810	17120	Tue	Polish intel.	PSK	(AB)

P03	12-12	0815	17120	Tue	Polish intel.	PSK	(AB)
P03	12-12	1100	12089	Tue	Polish intel.	PSK	(AB)
P03	12-12	1105	12089	Tue	Polish intel.	PSK	(AB)
P03	12-12	1500	8800	Tue	Polish intel.	PSK	(AB)
P03	12-12	1505	8800	Tue	Polish intel.	PSK	(AB)
P03	12-12	1725	10429	Tue	Polish intel.	PSK	(AB)
P03	12-12	1730	10429	Tue	Polish intel.	PSK	(AB)
P03	13-12	0615	17120	Wed	Polish intel.	PSK	(AB)
P03	13-12	0620	17120	Wed	Polish intel.	PSK	(AB)
P03	13-12	1310	6524	Wed	Polish intel.	PSK	(AB)
P03	13-12	1315	6524	Wed	Polish intel.	PSK	(AB)
P03	14-12	0430	6252	Thu	Polish intel.	PSK	(TM)
P03	14-12	0435	6252	Thu	Polish intel.	PSK	(TM)
P03	14-12	0635	25060	Thu	Polish intel.	PSK	(AB-POL)
P03	14-12	0640	25060	Thu	Polish intel.	PSK	(AB-POL)
P03	14-12	1950	9431	Thu	Polish intel.	PSK	(AB)
P03	14-12	1955	9431	Thu	Polish intel.	PSK	(AB)
P03	15-12	0850	17120	Fri	Polish intel.	PSK	(AB)
P03	15-12	0855	17120	Fri	Polish intel.	PSK	(AB)
P03	15-12	1100	6433	Fri	Polish intel.	PSK	(AB)
P03	15-12	1105	6433	Fri	Polish intel.	PSK	(AB)
P03	15-12	1500	8800	Fri	Polish intel.	PSK	(AB)
P03	15-12	1505	8800	Fri	Polish intel.	PSK	(AB)
P03	15-12	1515	17535	Fri	Polish intel.	PSK	(AB)
P03	15-12	1520	17535	Fri	Polish intel.	PSK	(AB)
P03	16-12	1200	5779	Sat	Polish intel.	PSK	(AB)
P03	16-12	1205	5779	Sat	Polish intel.	PSK	(AB)
P03	16-12	1245	7469	Sat	Polish intel.	PSK	(AB)
P03	16-12	1250	7469	Sat	Polish intel.	PSK	(AB)
P03	16-12	1310	6524	Sat	Polish intel.	PSK	(AB)
P03	16-12	1315	6524	Sat	Polish intel.	PSK	(AB)
P03	17-12	0530	5371	Sun	Polish intel.	PSK	(AB)
P03	17-12	0535	5371	Sun	Polish intel.	PSK	(AB)
P03	17-12	1100	6433	Sun	Polish intel.	PSK	(AB)
P03	17-12	1105	6433	Sun	Polish intel.	PSK	(AB)
P03	17-12	1200	5779	Sun	Polish intel.	PSK	(AB)
P03	17-12	1205	5779	Sun	Polish intel.	PSK	(AB)
P03	17-12	1220	23031	Sun	Polish intel.	PSK	(AB)
P03	17-12	1225	23031	Sun	Polish intel.	PSK	(AB)
P03	17-12	1245	7469	Sun	Polish intel.	PSK	(AB)
P03	17-12	1250	7469	Sun	Polish intel.	PSK	(AB)
P03	17-12	1515	17535	Sun	Polish intel.	PSK	(AB)

P03	17-12	1520	17535	Sun	Polish intel.	PSK	(AB)
P03	17-12	1725	10429	Sun	Polish intel.	PSK	(AB)
P03	17-12	1730	10429	Sun	Polish intel.	PSK	(AB)
P03	17-12	1950	9431	Sun	Polish intel.	PSK	(AB)
P03	17-12	1955	9431	Sun	Polish intel.	PSK	(AB)
P03	19-12	0430	6252	Tue	Polish intel.	PSK	(TM)
P03	19-12	0435	6252	Tue	Polish intel.	PSK	(TM)
P03	19-12	0635	25060	Tue	Polish intel.	PSK	(AB-POL)
P03	19-12	0640	25060	Tue	Polish intel.	PSK	(AB-POL)
P03	19-12	0810	17120	Tue	Polish intel.	PSK	(AB)
P03	19-12	0815	17120	Tue	Polish intel.	PSK	(AB)
P03	19-12	1100	12089	Tue	Polish intel.	PSK	(AB)
P03	19-12	1105	12089	Tue	Polish intel.	PSK	(AB)
P03	19-12	1500	8800	Tue	Polish intel.	PSK	(AB)
P03	19-12	1505	8800	Tue	Polish intel.	PSK	(AB)
P03	19-12	1725	10429	Tue	Polish intel.	PSK	(AB)
P03	19-12	1730	10429	Tue	Polish intel.	PSK	(AB)
P03	20-12	0615	17120	Wed	Polish intel.	PSK	(AB)
P03	20-12	0620	17120	Wed	Polish intel.	PSK	(AB)
P03	20-12	1100	12089	Wed	Polish intel.	PSK	(AB)
P03	20-12	1105	12089	Wed	Polish intel.	PSK	(AB)
P03	20-12	1310	6524	Wed	Polish intel.	PSK	(AB)
P03	20-12	1315	6524	Wed	Polish intel.	PSK	(AB)
P03	21-12	0430	6252	Thu	Polish intel.	PSK	(TM)
P03	21-12	0435	6252	Thu	Polish intel.	PSK	(TM)
P03	21-12	0635	25060	Thu	Polish intel.	PSK	(AB-POL)
P03	21-12	0640	25060	Thu	Polish intel.	PSK	(AB-POL)
P03	21-12	1950	9431	Thu	Polish intel.	PSK	(AB)
P03	21-12	1955	9431	Thu	Polish intel.	PSK	(AB)
P03	22-12	0530	5371	Fri	Polish intel.	PSK	(TM)
P03	22-12	0535	5371	Fri	Polish intel.	PSK	(TM)
P03	22-12	0850	17120	Fri	Polish intel.	PSK	(AB)
P03	22-12	0855	17120	Fri	Polish intel.	PSK	(AB)
P03	22-12	1100	6433	Fri	Polish intel.	PSK	(AB)
P03	22-12	1105	6433	Fri	Polish intel.	PSK	(AB)
P03	22-12	1500	8800	Fri	Polish intel.	PSK	(AB)
P03	22-12	1505	8800	Fri	Polish intel.	PSK	(AB)
P03	22-12	1515	17535	Fri	Polish intel.	PSK	(AB/MPJ)
P03	22-12	1520	17535	Fri	Polish intel.	PSK	(AB/MPJ)
P03	23-12	1200	5779	Sat	Polish intel.	PSK	(AB)
P03	23-12	1205	5779	Sat	Polish intel.	PSK	(AB)
P03	23-12	1245	7469	Sat	Polish intel.	PSK	(AB/MPJ)

P03	23-12	1250	7469	Sat	Polish intel.	PSK	(AB/MPJ)
P03	23-12	1310	6524	Sat	Polish intel.	PSK	(AB)
P03	23-12	1315	6524	Sat	Polish intel.	PSK	(AB)
P03	24-12	0530	5371	Sun	Polish intel.	PSK	(AB)
P03	24-12	0535	5371	Sun	Polish intel.	PSK	(AB)
P03	24-12	1100	6433	Sun	Polish intel.	PSK	(AB)
P03	24-12	1105	6433	Sun	Polish intel.	PSK	(AB)
P03	24-12	1200	5779	Sun	Polish intel.	PSK	(AB)
P03	24-12	1205	5779	Sun	Polish intel.	PSK	(AB)
P03	24-12	1220	23031	Sun	Polish intel.	PSK	(AB)
P03	24-12	1225	23031	Sun	Polish intel.	PSK	(AB)
P03	24-12	1245	7469	Sun	Polish intel.	PSK	(AB)
P03	24-12	1250	7469	Sun	Polish intel.	PSK	(AB)
P03	24-12	1515	17535	Sun	Polish intel.	PSK	(AB)
P03	24-12	1520	17535	Sun	Polish intel.	PSK	(AB)
P03	24-12	1725	10429	Sun	Polish intel.	PSK	(AB)
P03	24-12	1730	10429	Sun	Polish intel.	PSK	(AB)
P03	24-12	1950	9431	Sun	Polish intel.	PSK	(AB)
P03	24-12	1950	9431	Sun	Polish intel.	PSK	(AB)
P03	24-12	1955	9431	Sun	Polish intel.	PSK	(AB)
P03	24-12	1955	9431	Sun	Polish intel.	PSK	(AB)
P03	25-12	0615	17120	Mon	Polish intel.	PSK	(AB)
P03	25-12	0620	17120	Mon	Polish intel.	PSK	(AB)
P03	25-12	1220	23031	Mon	Polish intel.	PSK	(AB)
P03	25-12	1225	23031	Mon	Polish intel.	PSK	(AB)
P03	26-12	0430	6252	Tue	Polish intel.	PSK	(TM)
P03	26-12	0435	6252	Tue	Polish intel.	PSK	(TM)
P03	26-12	0635	25060	Tue	Polish intel.	PSK	(AB-POL)
P03	26-12	0640	25060	Tue	Polish intel.	PSK	(AB-POL)
P03	26-12	0810	17120	Tue	Polish intel.	PSK	(AB)
P03	26-12	0815	17120	Tue	Polish intel.	PSK	(AB)
P03	26-12	1100	12089	Tue	Polish intel.	PSK	(AB)
P03	26-12	1105	12089	Tue	Polish intel.	PSK	(AB)
P03	26-12	1500	8800	Tue	Polish intel.	PSK	(AB)
P03	26-12	1505	8800	Tue	Polish intel.	PSK	(AB)
P03	26-12	1725	10429	Tue	Polish intel.	PSK	(AB)
P03	26-12	1730	10429	Tue	Polish intel.	PSK	(AB)
P03	27-12	0615	17120	Wed	Polish intel.	PSK	(AB)
P03	27-12	0620	17120	Wed	Polish intel.	PSK	(AB)
P03	27-12	1100	12089	Wed	Polish intel.	PSK	(AB)
P03	27-12	1105	12089	Wed	Polish intel.	PSK	(AB)
P03	27-12	1310	6524	Wed	Polish intel.	PSK	(AB)

P03	27-12	1315	6524	Wed	Polish intel.	PSK	(AB)
P03	28-12	0430	6252	Thu	Polish intel.	PSK	(AB)
P03	28-12	0435	6252	Thu	Polish intel.	PSK	(AB)
P03	28-12	0635	25060	Thu	Polish intel.	PSK	(AB-POL)
P03	28-12	0640	25060	Thu	Polish intel.	PSK	(AB-POL)
P03	28-12	0730	6986	Thu	Polish intel.	PSK	(PY)
P03	28-12	0735	6986	Thu	Polish intel.	PSK	(PY)
P03	28-12	1950	9431	Thu	Polish intel.	PSK	(AB)
P03	28-12	1955	9431	Thu	Polish intel.	PSK	(AB)
P03	29-12	0530	5371	Fri	Polish intel.	PSK	(TM)
P03	29-12	0535	5371	Fri	Polish intel.	PSK	(TM)
P03	29-12	0850	17120	Fri	Polish intel.	PSK	(AB)
P03	29-12	0855	17120	Fri	Polish intel.	PSK	(AB)
P03	29-12	1100	6433	Fri	Polish intel.	PSK	(AB)
P03	29-12	1105	6433	Fri	Polish intel.	PSK	(AB)
P03	29-12	1500	8800	Fri	Polish intel.	PSK	(AB)
P03	29-12	1505	8800	Fri	Polish intel.	PSK	(AB)
P03	29-12	1515	17535	Fri	Polish intel.	PSK	(AB)
P03	29-12	1520	17535	Fri	Polish intel.	PSK	(AB)
P03	30-12	1200	5779	Sat	Polish intel.	PSK	(AB)
P03	30-12	1205	5779	Sat	Polish intel.	PSK	(AB)
P03	30-12	1245	7469	Sat	Polish intel.	PSK	(AB)
P03	30-12	1250	7469	Sat	Polish intel.	PSK	(AB)
P03	30-12	1310	6524	Sat	Polish intel.	PSK	(AB)
P03	30-12	1315	6524	Sat	Polish intel.	PSK	(AB)
P03	31-12	0530	5371	Sun	Polish intel.	PSK	(AB)
P03	31-12	0535	5371	Sun	Polish intel.	PSK	(AB)
P03	31-12	1100	6433	Sun	Polish intel.	PSK	(AB)
P03	31-12	1105	6433	Sun	Polish intel.	PSK	(AB)
P03	31-12	1200	5779	Sun	Polish intel.	PSK	(AB)
P03	31-12	1205	5779	Sun	Polish intel.	PSK	(AB)
P03	31-12	1220	23031	Sun	Polish intel.	PSK	(AB)
P03	31-12	1225	23031	Sun	Polish intel.	PSK	(AB)
P03	31-12	1245	7469	Sun	Polish intel.	PSK	(AB)
P03	31-12	1250	7469	Sun	Polish intel.	PSK	(AB)
P03	31-12	1515	17535	Sun	Polish intel.	PSK	(AB)
P03	31-12	1520	17535	Sun	Polish intel.	PSK	(AB)
P03	31-12	1725	10429	Sun	Polish intel.	PSK	(AB)
P03	31-12	1730	10429	Sun	Polish intel.	PSK	(AB)
P03g	1-12	1315	13046	Fri	Polish intel.	BPSK 50Bd/464bp	(AB/MPJ)
P03g	1-12	1320	13046	Fri	Polish intel.	BPSK 50Bd/464bp	(AB/MPJ)
P03g	6-12	1315	13046	Wed	Polish intel.	BPSK 50Bd/464bp	(AB/MPJ)

P03g	6-12	1320	13046	Wed	Polish intel.	BPSK 50Bd/464bp	(AB/MPJ)
P03g	8-12	1315	13046	Fri	Polish intel.	BPSK 50Bd/464bp	(AB/MPJ)
P03g	8-12	1320	13046	Fri	Polish intel.	BPSK 50Bd/464bp	(AB/MPJ)
P03g	13-12	1315	13046	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	13-12	1320	13046	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	15-12	1315	13046	Fri	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	15-12	1320	13046	Fri	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	20-12	1315	13046	Wed	Polish intel.	BPSK 50Bd/464bp	(AB/MPJ)
P03g	20-12	1320	13046	Wed	Polish intel.	BPSK 50Bd/464bp	(AB/MPJ)
P03g	22-12	1315	13046	Fri	Polish intel.	BPSK 50Bd/464bp	(AB/MPJ)
P03g	22-12	1320	13046	Fri	Polish intel.	BPSK 50Bd/464bp	(AB/MPJ)
P03g	27-12	1315	13046	Wed	Polish intel.	BPSK 50Bd/464bp	(AB/MPJ)
P03g	27-12	1320	13046	Wed	Polish intel.	BPSK 50Bd/464bp	(AB/MPJ)
P03g	29-12	1315	13046	Fri	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	29-12	1320	13046	Fri	Polish intel.	BPSK 50Bd/464bp	(AB)
P03i	5-12	0725	9052	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	5-12	0730	9052	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	5-12	0800	14656	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	5-12	0805	14656	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	5-12	1800	6480	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	5-12	1805	6480	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	6-12	0800	14656	Wed	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	6-12	0805	14656	Wed	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	7-12	0725	9052	Thu	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	7-12	0730	9052	Thu	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	7-12	1800	6480	Thu	Polish intel.	BPSK 100Bd/512bp	(MPJ)
P03i	7-12	1805	6480	Thu	Polish intel.	BPSK 100Bd/512bp	(MPJ)
P03i	12-12	0725	9052	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	12-12	0730	9052	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	12-12	0800	14656	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	12-12	0805	14656	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	12-12	1800	6480	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	12-12	1805	6480	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	13-12	0800	14656	Wed	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	13-12	0805	14656	Wed	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	14-12	0725	9052	Thu	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	14-12	0730	9052	Thu	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	14-12	1800	6480	Thu	Polish intel.	BPSK 100Bd/512bp	(AB/MPJ)
P03i	14-12	1805	6480	Thu	Polish intel.	BPSK 100Bd/512bp	(AB/MPJ)
P03i	19-12	0725	9052	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	19-12	0730	9052	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	19-12	0800	14656	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)

P03i	19-12	0805	14656	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	19-12	1800	6480	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	19-12	1805	6480	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	20-12	0800	14656	Wed	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	20-12	0805	14656	Wed	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	21-12	0725	9052	Thu	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	21-12	0730	9052	Thu	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	21-12	1800	6480	Thu	Polish intel.	BPSK 100Bd/512bp	(AB/MPJ)
P03i	21-12	1805	6480	Thu	Polish intel.	BPSK 100Bd/512bp	(AB/MPJ)
P03i	26-12	0725	9052	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	26-12	0730	9052	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	26-12	0800	14656	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	26-12	0805	14656	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	26-12	1800	6480	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	26-12	1805	6480	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	27-12	0800	14656	Wed	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	27-12	0805	14656	Wed	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	28-12	0725	9052	Thu	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	28-12	0730	9052	Thu	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	28-12	1800	6480	Thu	Polish intel.	BPSK 100Bd/512bp	(AB/MPJ)
P03i	28-12	1805	6480	Thu	Polish intel.	BPSK 100Bd/512bp	(AB/MPJ)
P03j	4-12	1830	6906	Mon	Polish intel.	QPSK 100Bd/504bp	(AB/MPJ)
P03j	4-12	1835	6906	Mon	Polish intel.	QPSK 100Bd/504bp	(AB/MPJ)
P03j	7-12	1830	6906	Thu	Polish intel.	QPSK 100Bd/504bp	(MPJ)
P03j	7-12	1835	6906	Thu	Polish intel.	QPSK 100Bd/504bp	(MPJ)
P03j	14-12	1830	6906	Thu	Polish intel.	QPSK 100Bd/504bp	(AB/MPJ)
P03j	14-12	1835	6906	Thu	Polish intel.	QPSK 100Bd/504bp	(AB/MPJ)
P03j	21-12	1830	6906	Thu	Polish intel.	QPSK 100Bd/504bp	(AB/MPJ)
P03j	21-12	1835	6906	Thu	Polish intel.	QPSK 100Bd/504bp	(AB/MPJ)
P03j	28-12	1830	6906	Thu	Polish intel.	QPSK 100Bd/504bp	(AB/MPJ)
P03j	28-12	1835	6906	Thu	Polish intel.	QPSK 100Bd/504bp	(AB/MPJ)
P03k	9-12	0630	6252	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	9-12	0635	6252	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	10-12	0630	6252	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	10-12	0635	6252	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	12-12	1230	18168	Tue	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	12-12	1235	18168	Tue	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	13-12	1800	7504	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	13-12	1805	7504	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	16-12	0630	6252	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	16-12	0635	6252	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	16-12	1230	18168	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)

P03k	16-12	1235	18168	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	16-12	1800	7504	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	16-12	1805	7504	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	17-12	0630	6252	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	17-12	0635	6252	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	19-12	1230	18168	Tue	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	19-12	1235	18168	Tue	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	20-12	1800	7504	Wed	Polish intel.	BPSK 100Bd/480bp	(MPJ)
P03k	20-12	1805	7504	Wed	Polish intel.	BPSK 100Bd/480bp	(MPJ)
P03k	23-12	0630	6252	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	23-12	0635	6252	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	23-12	1230	18168	Sat	Polish intel.	BPSK 100Bd/480bp	(AB/MPJ)
P03k	23-12	1235	18168	Sat	Polish intel.	BPSK 100Bd/480bp	(AB/MPJ)
P03k	23-12	1800	7504	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	23-12	1805	7504	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	24-12	0630	6252	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	24-12	0635	6252	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	26-12	1230	18168	Tue	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	26-12	1235	18168	Tue	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	27-12	1800	7504	Wed	Polish intel.	BPSK 100Bd/480bp	(MPJ)
P03k	27-12	1805	7504	Wed	Polish intel.	BPSK 100Bd/480bp	(MPJ)
P03k	30-12	0630	6252	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	30-12	0635	6252	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	30-12	1230	18168	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	30-12	1235	18168	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	30-12	1800	7504	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	30-12	1805	7504	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	31-12	0630	6252	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	31-12	0635	6252	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03I	1-12	1345	8102	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	1-12	1350	8102	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	6-12	1345	6940	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	6-12	1350	6940	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	8-12	1345	6940	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	8-12	1350	6940	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	11-12	1200	7504	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	11-12	1205	7504	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	13-12	1345	6940	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	13-12	1350	6940	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	15-12	1345	6940	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	15-12	1350	6940	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	18-12	1200	7504	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)

P03I	18-12	1205	7504	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	20-12	1345	6940	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	20-12	1350	6940	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	21-12	1200	7504	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	21-12	1205	7504	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	22-12	1345	6940	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	22-12	1350	6940	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	25-12	1200	7504	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	25-12	1205	7504	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	27-12	1345	6940	Wed	Polish intel.	QPSK 100Bd/464bp	(AB/MPJ)
P03I	27-12	1350	6940	Wed	Polish intel.	QPSK 100Bd/464bp	(AB/MPJ)
P03I	28-12	1200	7504	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	28-12	1205	7504	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	29-12	1345	6940	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	29-12	1350	6940	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P07	3-12	1500	6986	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	3-12	1510	6774	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB/sse)
P07	3-12	1520	5853	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	3-12	1530	5336	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	3-12	1540	5082	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	3-12	1550	4609	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	5-12	1130	10751	Tue	message 2 channels	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(sse)
P07	5-12	1230	10751	Tue	message 2 channels	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(sse)
P07	5-12	1240	10386	Tue	Russian intel	P07 variant	(PY)
P07	5-12	1250	9236	Tue	Russian intel	P07 variant	(PY)
P07	6-12	1500	6986	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	6-12	1510	6774	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	6-12	1520	5853	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	6-12	1530	5336	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	6-12	1540	5082	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	6-12	1550	4609	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	10-12	1500	6986	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB/MPJ)
P07	10-12	1510	6774	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB/MPJ)
P07	10-12	1520	5853	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB/MPJ)
P07	10-12	1530	5336	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB/MPJ)
P07	10-12	1540	5082	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB/MPJ)
P07	10-12	1550	4609	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB/MPJ)
P07	13-12	1500	6986	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	13-12	1510	6774	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	13-12	1520	5853	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	13-12	1530	5336	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	13-12	1540	5082	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)

P07	13-12	1550	4609	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	17-12	1500	6986	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	17-12	1510	6774	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	17-12	1520	5853	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	17-12	1530	5336	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	17-12	1540	5082	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	17-12	1550	4609	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	20-12	1500	6986	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	20-12	1510	6774	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	20-12	1520	5853	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	20-12	1530	5336	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	20-12	1540	5082	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	20-12	1550	4609	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	24-12	1500	6986	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	24-12	1510	6774	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	24-12	1520	5853	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	24-12	1530	5336	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	24-12	1540	5082	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	24-12	1550	4609	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	27-12	1500	6986	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	27-12	1510	6774	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	27-12	1520	5853	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	27-12	1530	5336	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	27-12	1540	5082	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	27-12	1550	4609	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	31-12	1500	6986	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	31-12	1510	6774	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	31-12	1520	5853	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	31-12	1530	5336	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	31-12	1540	5082	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	31-12	1550	4609	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
S06	1-12	0400	11616	Fri	480 573 61 63385 40029 18271 ... 80463 66155 83586 573 61 00000	USB	(Subilo)
S06	1-12	0420	9322	Fri	480 573 61 63385 40029 18271 ... 80463 66155 83586 573 61 00000	USB	(Subilo)
S06	1-12	1900	7812	Fri	637 637 637 00000	USB	(AB/MPJ/sse/HFD)
S06	1-12	2000	5743	Fri	637 637 637 00000	USB	(AB/HFD)
S06	4-12	0400	11616	Mon	480 621 59 29519 38117 73969 ... 60550 34132 50703 621 59 00000	USB	(Subilo)
S06	4-12	0420	9322	Mon	480 621 59 29519 38117 73969 ... 60550 34132 50703 621 59 00000	USB	(Subilo)
S06	5-12	0400	11616	Tue	480 572 61 08952 45561 56585 ... 64362 79672 84858 572 61 00000	USB	(Subilo)
S06	5-12	0420	9322	Tue	480 572 61 08952 45561 56585 ... 64362 79672 84858 572 61 00000	USB	(Subilo)
S06	6-12	0400	11616	Wed	480 913 56 63701 34702 41345 ... 12186 79917 97533 913 56 00000	USB	(Subilo)
S06	6-12	0420	9322	Wed	480 913 56 63701 34702 41345 ... 12186 79917 97533 913 56 00000	USB	(Subilo)
S06	7-12	0400	11616	Thu	480 913 56 63701 34702 41345 ... 12186 79917 97533 913 56 00000	USB	(sse)

S06	7-12	0400	11616	Thu	480 913 56 63701 34702 41345 ... 12186 79917 97533 913 56 00000	USB	(Subilo)
S06	7-12	0420	9322	Thu	480 913 56 63701 34702 41345 ... 12186 79917 97533 913 56 00000	USB	(sse)
S06	8-12	0400	11616	Fri	480 369 50 09461 08491 52659 ... 31516 11077 06600 369 50 00000	USB	(Subilo)
S06	8-12	0420	9322	Fri	480 369 50 09461 08491 52659 ... 31516 11077 06600 369 50 00000	USB	(Subilo)
S06	11-12	0400	11616	Mon	480 376 58 83393 39919 88143 ... 42202 11545 90028 376 58 00000	USB	(Subilo)
S06	11-12	0420	9322	Mon	480 376 58 83393 39919 88143 ... 42202 11545 90028 376 58 00000	USB	(Subilo)
S06	12-12	0400	11616	Tue	480 659 57 77482 07363 01298 ... 01508 83189 659 57 00000	USB	(sse)
S06	12-12	0400	11616	Tue	480 659 57 77482 07363 01298 ... 35280 01508 83189 659 57 00000	USB	(Subilo)
S06	12-12	0420	9322	Tue	480 659 57 77482 07363 01298 ... 01508 83189 659 57 00000	USB	(sse)
S06	12-12	0420	9322	Tue	480 659 57 77482 07363 01298 ... 35280 01508 83189 659 57 00000	USB	(Subilo)
S06	13-12	0400	11616	Wed	480 123 57 32582 68093 15684 ... 50099 42025 91527 123 57 00000	USB	(Subilo)
S06	13-12	0420	9322	Wed	480 123 57 32582 68093 15684 ... 50099 42025 91527 123 57 00000	USB	(Subilo)
S06	14-12	0400	11616	Thu	480 579 61 86475 00765 47683 ... 69783 95916 09237 579 61 00000	USB	(Subilo)
S06	14-12	0420	9322	Thu	480 579 61 86475 00765 47683 ... 69783 95916 09237 579 61 00000	USB	(Subilo)
S06	15-12	0400	11616	Fri	480 361 59 44566 47168 18912 ... 75255 67564 15192 361 59 00000	USB	(Subilo)
S06	15-12	0420	9322	Fri	480 361 59 44566 47168 18912 ... 75255 67564 15192 361 59 00000	USB	(Subilo)
S06	15-12	1900	7812	Fri	637 637 637 00000	USB	(AB)
S06	15-12	2000	5743	Fri	637 637 637 00000	USB	(AB)
S06	17-12	0420	9322	Sun	480 913 56 63701 34702 41345 ... 12186 79917 97533 913 56 00000	USB	(Subilo)
S06	18-12	0400	11616	Mon	480 725 61 32537 51013 62501 ... 18888 24198 04877 725 61 00000	USB	(Subilo)
S06	18-12	0420	9322	Mon	480 725 61 32537 51013 62501 ... 18888 24198 04877 725 61 00000	USB	(Subilo)
S06	19-12	0400	11616	Tue	480 693 51 18241 01823 01843 ... 42130 07153 69260 693 51 00000	USB	(Subilo)
S06	19-12	0420	9322	Tue	480 693 51 18241 01823 01843 ... 42130 07153 69260 693 51 00000	USB	(Subilo)
S06	20-12	0400	11616	Wed	480 127 53 44027 27112 02128 ... 34085 13314 19106 127 53 00000	USB	(Subilo)
S06	20-12	0420	9322	Wed	480 127 53 44027 27112 02128 ... 34085 13314 19106 127 53 00000	USB	(Subilo)
S06	20-12	0930	9463	Wed	480 527 48 96264 47939 34148 ... 80793 53268 25478 527 48 00000	USB	(sse)
S06	20-12	1030	9073	Wed	480 527 48 96264 47939 34148 ... 80793 53216 25478 527 48 00000	USB	(PY)
S06	21-12	0400	11616	Thu	480 563 61 55594 60568 21798 ... 88452 16134 75673 563 61 00000	USB	(Subilo)
S06	21-12	0420	9322	Thu	480 563 61 55594 60568 21798 ... 88452 16134 75673 563 61 00000	USB	(Subilo)
S06	22-12	0400	11616	Fri	480 261 53 14171 62844 29471 ... 47055 23744 19036 261 53 00000	USB	(Subilo/AB)
S06	22-12	0420	9322	Fri	480 261 53 14171 62844 29471 ... 47055 23744 19036 261 53 00000	USB	(Subilo/AB)
S06	22-12	0830	10755	Fri	975 123 60 23406 20685 54216 ... 47980 94903 44380 123 60 00000	USB	(AB/RO/PY)
S06	25-12	0400	11616	Mon	480 759 61 90483 13336 21123 ... 59011 36545 16529 759 61 00000	USB	(Subilo/AB)
S06	25-12	0420	9322	Mon	480 759 61 90483 13336 21123 ... 59011 36545 16529 759 61 00000	USB	(Subilo/AB)
S06	26-12	0400	11616	Tue	480 316 54 16419 17636 10380 ... 93332 08600 50073 316 54 00000	USB	(Subilo/AB)
S06	26-12	0420	9322	Tue	480 316 54 16419 17636 10380 ... 93332 08600 50073 316 54 00000	USB	(Subilo/AB)
S06	27-12	0400	11616	Wed	480 275 63 18909 70972 53141 ... 36646 05085 58352 275 63 00000	USB	(Subilo/AB)
S06	27-12	0420	9322	Wed	480 275 63 18909 70972 53141 ... 36646 05085 58352 275 63 00000	USB	(Subilo/AB)
S06	27-12	0930	9463	Wed	480 127 49 57280 65478 48539 ... 01237 62517 31537 127 49 00000	USB	(PY/Lac/sse)
S06	27-12	1030	9073	Wed	480 127 49 57280 65478 48539 ... 01237 62517 31537 127 49 00000	USB	(PY)
S06	28-12	0400	11616	Thu	480 391 52 89810 62261 96312 ... 22559 80953 12695 391 52 (no closing nulls)	USB	(Subilo/AB)
S06	28-12	0420	9322	Thu	480 391 52 89810 62261 96312 ... 22559 80953 12695 391 52 (no closing nulls)	USB	(Subilo/AB)

S06	29-12	0400	11616	Fri	480 625 57 65983 42327 31497 ... 87285 95161 52735 625 57 00000	USB	(Subilo/AB/sse)
S06c	6-12	0623	14382	Wed	11222 (R7m)	USB	(PY)
S06c	6-12	0635	14382	Wed	11222 (R4m)	USB	(PY)
S06c	6-12	0645	12087	Wed	11222 (R4m)	USB	(PY)
S06c	11-12	1022	15610	Mon	11025 (R4m)	USB	(PY)
S06c	11-12	1035	15610	Mon	11025 (R4m)	USB	(PY)
S06c	11-12	1045	13473	Mon	11025 (R4m)	USB	(PY)
S06c	14-12	1020	16129	Thu	11213 (R4m)	USB	(AB/RO/linkz)
S06c	14-12	1030	13547	Thu	11213 (R4m)	USB	(PY)
S11a	1-12	0725	23486	Fri	389/00 Konets	USB	(AB-POL)
S11a	1-12	0915	6252	Fri	487/00 Konets	USB	(AB/sse)
S11a	1-12	1400	10448	Fri	421/00 Konets	USB	(AB)
S11a	2-12	0830	5371	Sat	372/00 Konets	USB	(AB)
S11a	2-12	1850	11486	Sat	288/00 Konets	USB	(AB-POL/sse)
S11a	3-12	0830	5371	Sun	373/00 Konets	USB	(AB)
S11a	4-12	0915	6252	Mon	486/00 Konets	USB	(AB)
S11a	5-12	1400	10448	Tue	425/00 Konets	USB	(AB/Lac)
S11a	6-12	0725	23486	Wed	389/00 Konets	USB	(AB-POL/Lac)
S11a	6-12	1850	11486	Wed	280/00 Konets	USB	(AB-POL/MPJ)
S11a	7-12	0700	9050	Thu	472/00 Konets	USB	(AB)
S11a	8-12	0725	23486	Fri	387/00 Konets	USB	(AB-POL)
S11a	8-12	0915	6252	Fri	484/00 Konets	USB	(AB)
S11a	8-12	1400	10448	Fri	426/00 Konets	USB	(AB/MPJ)
S11a	9-12	0830	5371	Sat	371/00 Konets	USB	(AB/sse)
S11a	9-12	1850	11486	Sat	286/00 Konets	USB	(AB-POL)
S11a	10-12	0830	5371	Sun	373/00 Konets	USB	(AB)
S11a	11-12	0700	9050	Mon	477/30 Vnimanije 90263 49102 14006 ... 22826 15546 49042 Vnimanije (msg rptd) Konets	USB	(AB)
S11a	11-12	0915	6252	Mon	487/37 Vnimanije 35223 81455 00095 ... 10024 28126 13849 Vnimanije (msg rptd) Konets	USB	(AB)
S11a	12-12	1400	10448	Tue	424/00 Konets	USB	(AB)
S11a	13-12	0510	21906	Wed	654/00 Konets	USB	(TM)
S11a	13-12	0725	23486	Wed	380/00 Konets	USB	(AB-POL)
S11a	13-12	1850	11486	Wed	288/00 Konets	USB	(AB-POL)
S11a	14-12	0700	9050	Thu	477/30 Vnimanije 90263 49102 14006 ... 22826 15546 49042 Vnimanije (msg rptd) Konets	USB	(AB-POL)
S11a	15-12	0915	6252	Fri	487/37 Vnimanije 35223 81455 00095 ... 10024 28126 13849 Vnimanije (msg rptd) Konets	USB	(AB/sse)
S11a	15-12	1400	10448	Fri	429/00 Konets	USB	(AB)
S11a	16-12	0830	5371	Sat	379/00 Konets	USB	(AB)
S11a	16-12	1850	11486	Sat	285/00 Konets	USB	(AB-POL)
S11a	17-12	0830	5371	Sun	377/00 Konets	USB	(AB)
S11a	18-12	0700	9050	Mon	476/00 Konets	USB	(AB)
S11a	18-12	0915	6252	Mon	482/00 Konets	USB	(AB)
S11a	19-12	1400	10448	Tue	421/00 Konets	USB	(AB)
S11a	20-12	0725	23486	Wed	389/40 Vnimanije 29991 33200 52703 ... 68312 55029 38345 Vnimanije (msg rptd) Konets	USB	(AB-POL)

S11a	20-12	1850	11486	Wed	Too weak to copy	USB	(AB/MPJ)
S11a	21-12	0445	11559	Thu	791/00 Konets	USB	(TM)
S11a	21-12	0700	9050	Thu	472/00 Konets	USB	(AB)
S11a	22-12	0725	23486	Fri	389/40 Vnimanaye 29991 33200 52703 ... 68312 55029 38345 Vnimanaye (msg rptd) Konets	USB	(AB-POL)
S11a	22-12	0915	6252	Fri	485/00 Konets	USB	(AB)
S11a	22-12	1400	10448	Fri	429/00 Konets	USB	(AB)
S11a	23-12	0830	5371	Sat	377/00 Konets	USB	(AB)
S11a	23-12	1850	11486	Sat	282/33 Vnimanaye ...	USB	(AB-POL)
S11a	24-12	0830	5371	Sun	371/00 Konets	USB	(AB)
S11a	25-12	0700	9050	Mon	470/00 Konets	USB	(AB/Lac)
S11a	25-12	0915	6252	Mon	483/00 Konets	USB	(AB/Lac)
S11a	26-12	0445	11559	Tue	798/00 Konets	USB	(TM)
S11a	26-12	1400	10448	Tue	422/31 Vnimanaye 90640 40007 73234 ... 95125 22321 23476 Vnimanaye (msg rptd) Konets	USB	(AB/sse)
S11a	27-12	0510	21906	Wed	657/00 Konets	USB	(sse)
S11a	27-12	0725	23486	Wed	387/00 Konets	USB	(AB-POL)
S11a	28-12	0445	11559	Thu	791/00 Konets	USB	(AB)
S11a	28-12	0700	9050	Thu	470/00 Konets	USB	(AB)
S11a	29-12	0725	23486	Fri	382/00 Konets	USB	(AB-POL)
S11a	29-12	0915	6252	Fri	484/00 Konets	USB	(AB)
S11a	29-12	1400	10448	Fri	422/31 Vnimanaye 90640 40007 73234 ... 95125 22321 23476 Vnimanaye (msg rptd) Konets	USB	(AB)
S11a	30-12	0830	5371	Sat	379/37 Vnimanaye 48735 56331 46880 ... 99074 11455 06996 Vnimanaye (msg rptd) Konets	USB	(AB)
S11a	30-12	1850	11486	Sat	288/00 Konets	USB	(AB-FIN)
S11a	31-12	0830	5371	Sun	379/37 Vnimanaye 48735 56331 46880 ... 99074 11455 06996 Vnimanaye (msg rptd) Konets	USB	(AB)
S28	18-12	0505	4625	Mon	Buzzer: Russian military channel marker	USB	(ChPa)
S28	26-12	0610	4625	Tue	Buzzer: Russian military channel marker	USB	(AB)
S30	17-12	0531	5448	Sun	Pip: Russian military channel marker	USB	(AB)
S30	18-12	0445	3756	Mon	Pip: Russian military channel marker	USB	(ChPa)
S30	24-12	0530	5448	Sun	Pip: Russian military channel marker	USB	(AB)
S30	26-12	0646	4525	Tue	Pip: Russian military channel marker	USB	(AB)
S30	26-12	0646	5367	Tue	Pip: Russian channel marker (5367 is the former S32 freq)	USB	(AB)
S30	26-12	0646	5448	Tue	Pip: Russian military channel marker	USB	(AB)
S30	31-12	0530	5448	Sun	Pip: Russian military channel marker	USB	(AB)
EGY	17-12	0813	16223.7	Sun	MFA Cairo traffic. Ended with HUXD +? YKS YKS	SITOR-A 100/170	(AB)
UM04	1-12	0800	4735	Fri	VVV VVV PROMRCh = 01 12 = 1000 1000 1050 1240 1770 ... 0800 0740 0790 0950 1400 = AR	CW	(AB-HNG)
UM04	2-12	0800	4735	Sat	VVVVV PROMRCh = 02 12 = 1000 1000 1050 1230 1770 ... 0800 0740 0790 0950 1400 = AR	CW	(Subilo/AB)
UM04	3-12	0800	4735	Sun	VVV VVV PROMRCh = 0312 = 1000 1000 1060 1240 1780 ... 0800 0740 0790 0950 1400 = AR	CW	(AB-HNG)
UM04	4-12	0800	4735	Mon	VVVVV PROMRCh = 0412 = 1000 1010 1060 1240 1790 ... 0800 0730 0780 0940 1380 = AR	CW	(Subilo/AB)
UM04	5-12	0800	4735	Tue	VVV VVV PROMRCh = 05 12 = 1000 0980 1030 1220 1760 ... 0800 0720 0770 0920 1360 = AR	CW	(AB-ROU)
UM04	6-12	0800	4735	Wed	VVV VVV PROMRCh = 06 12 = 1000 1010 1060 1250 1790 ... 0800 0720 0770 0930 1360 = AR	CW	(AB-HNG)
UM04	7-12	0800	4735	Thu	VVVVV PROMRCh = 07 12 = 1000 1010 1060 1240 1790 ... 0800 0710 0760 0910 1350 = AR	CW	(Subilo/AB)
UM04	8-12	0800	4735	Fri	VVVVV PROMRCh = 0812 = 1000 1010 1070 1250 1800 ... 0800 0700 0910 1340 = AR	CW	(Subilo/AB)
UM04	9-12	0800	4735	Sat	VVV VVV PROMRCh = 09 12 = 1000 1010 1060 1250 1750 ... 0800 0700 0750 0900 1310 = AR	CW	(Subilo/AB)

UM04	10-12	0800	4735	Sun	VVVVV PROMRCh = 1012 = 1000 1000 1060 1240 1780 ... 0800 0700 0740 0900 1320 = AR	CW	(AB-ROU)
UM04	11-12	0800	4735	Mon	VVV VVV PROMRCh = 11 12 = 1000 0970 1003 1210 1750 ... 0800 0630 0730 0380 1300 = AR	CW	(Subilo/AB)
UM04	12-12	0800	4735	Tue	VVV VVV PROMRCh = 12 12 = 1000 0990 1040 1230 1770 ... 0800 0680 0730 0880 1300 = AR	CW	(AB-ROU)
UM04	13-12	0800	4735	Wed	VVVVV PROMRCh = 13 12 = 1000 0950 1000 1190 1720 ... 0800 0670 0710 0860 1260 = AR	CW	(AB-HNG)
UM04	14-12	0800	4735	Thu	VVV VVV PROMRCh = 14 12 = 1000 0950 1000 1190 1720 ... 0800 0660 0710 0850 1260 = AR	CW	(Subilo/AB)
UM04	15-12	0750	4735	Fri	Carrier on and off till 0810z. VVVVV PROMRCh = 1512 = 1000 0950 1000 1180 1710 ... 0800 0650 0700 0840 1250 = AR. Restart at 1817z. No repeat	CW	(Subilo/AB)
UM04	16-12	0800	4735	Sat	VVV VVV PROMRCh = 16 12 = 1000 0940 1000 1190 1710 ... 0800 0650 0690 0830 1230 = AR	CW	(AB-ROU)
UM04	17-12	0800	4735	Sun	VVVVV PROMRCh = 17 12 = 1000 0930 0990 1170 1700 ... 0800 0640 0680 0820 1210 = AR	CW	(AB-ROU)
UM04	18-12	0800	4735	Mon	VVVVV PROMRCh = 18 12 = 1000 0930 0990 1170 1720 ... 0800 0630 0680 0820 1210 = AR	CW	(AB-ROU)
UM04	19-12	0800	4735	Tue	VVVVV PROMRCh = 19 12 = 1000 0930 0990 1170 1700 ... 0800 0630 0670 0810 1200 = AR	CW	(AB-HNG)
UM04	20-12	0800	4735	Wed	VVVVV PROMRCh = 20 12 = 1000 0930 0990 1170 1710 ... 0800 0620 0660 0800 1180 = AR	CW	(AB-HNG)
UM04	21-12	0800	4735	Thu	VVV VVV PROMRCh = 21 12 = 1000 0930 0900 1170 1720 ... 0800 0610 0650 0790 1170 = AR	CW	(Subilo/AB)
UM04	22-12	0800	4735	Fri	VVVVV PROMRCh = 2212 = 1000 0930 0990 1170 1600 ... 0800 0610 0650 0790 1170 = AR	CW	(AB-HNG)
UM04	23-12	0800	4735	Sat	VVVVV PROMRCh = 2312 = 1000 0920 0970 1160 1700 ... 0800 0610 0650 0780 1170 = AR	CW	(AB-ROU)
UM04	24-12	0800	4735	Sun	VVVVV PROMRCh = 24 12 = 1000 0920 0970 1160 1690 ... 0800 0610 0650 0790 1160 = AR	CW	(AB-ROU)
UM04	25-12	0800	4735	Mon	VVV VVV PROMRCh = 25 12 = 1000 0940 0990 1170 1700 ... 0800 0610 0650 0790 1160 = AR	CW	(AB-ROU)
UM04	26-12	0800	4735	Tue	VVVVV PROMRCh = 26 12 = 1000 0920 0980 1160 1690 ... 0800 0610 0650 0790 1160 = AR	CW	(AB-HNG)
UM04	27-12	0800	4735	Wed	VVVVV PROMRCh = 27 12 = 1000 0920 0980 1160 1690 ... 0800 0610 0650 0790 1160 = AR	CW	(Subilo/AB)
UM04	28-12	0800	4735	Thu	VVV VVV PROMRCh = 28 12 = 1000 0930 0980 1170 1700 ... 0800 0610 0660 0790 1170 = AR	CW	(AB-HNG)
UM04	29-12	0800	4735	Fri	VVVVV PROMRCh = 2912 = 1000 0930 0980 1170 1700 ... 0800 0610 0660 0790 1170 = AR (restart at 0809z)	CW	(AB-HNG)
UM04	30-12	0800	4735	Sat	VVVVV PROMRCh = 30 12 = 1000 0930 0990 1170 1700 ... 0800 0610 0660 0790 1170 = AR	CW	(AB-ROU)
UM04	31-12	0800	4735	Sun	VVVVV PROMRCh = 31 12 = 1000 0950 1000 1190 1720 ... 0800 0600 0660 0800 1170 = AR	CW	(AB-ROU)
UM05	1-12	0615	3961.8	Fri	Passage, Niveau, La gare est ouverte, Vue, Decouverte, Desert, Oasis, Trafic de chausson a droite de la porte, CTE	CW	(AB)
UM05	2-12	0713	3961.8	Sat	Vallee, Passage, Port, Metro, Aventure, Deviation, Port, Jungle, Champ, Montagne	CW	(AB-F)
UM05	3-12	0658	3961.8	Sun	Cascade, Accident, Paysage, Decouverte, Accident, Vue, Tourisme	CW	(AB)
UM05	4-12	0658	3961.8	Mon	Cascade, Accident, Paysage	CW	(AB)
UM05	5-12	0751	3961.8	Tue	Accident, Campagne, Trafic de chausson a droite de la porte, Paysage, Arret de bus, La gare est ouverte, Nature	CW	(AB-F)
UM05	6-12	1304	3961.8	Wed	Deviation, Plaine, Jungle, Velo, Voyage, Lac, Metro, Rocher, Colline, Oasis, Decouverte	CW	(AB-F)
UM05	7-12	0705	3961.8	Thu	Velo, Jungle, Port, Rocher, Port, Plaine, Nature, Voiture, Tramway	CW	(AB-F)
UM05	8-12	1355	3961.8	Fri	Passage, Moto, Detour, Pont, Tunnel, Voiture, Plaine, Montagne, Voiture, Voie	CW	(AB-F)
UM05	9-12	0658	3961.8	Sat	Riviere, Ocean, Autoroute, Ocean, Embouteillage, Prairie, La garage est ouverte	CW	(AB-G)
UM05	10-12	0727	3961.8	Sun	Metro, Colline, Vue, Le, Ocean, Detour, Arret de bus, Prairie, Pont, Route, Tramway, Foret, Detour	CW	(AB)
UM05	11-12	0638	3961.8	Mon	Voiture, Oasis, Vallee, Campagne, Desert, Nature, Oasis, Aventure, Desert, Champ, Jungle	CW	(AB-G)
UM05	12-12	0506	3961.8	Tue	Passage ... etc	CW	(ChPa)
UM05	12-12	0604	3961.8	Tue	Fort, CTE, Chemin de fer, Rocher, Vue, Accident, Passage, Champ, Chemin de fer, Passage	CW	(AB-G)

UM05	13-12	0503	3961.8	Wed	Riviere ... etc	CW	(ChPa)
UM05	13-12	0616	3961.8	Wed	Paysage, Passage, Autoroute, Velo, To change the settings copy a file from the system configuration path to the su	CW	(AB-F)
UM05	14-12	0605	3961.8	Thu	Trains, Destination, Grotte, Deviation, Passage, Route, Campagne, This document is distributed under the terms of	CW	(AB-F)
UM05	15-12	0554	3961.8	Fri	Porte fenetre table, Couteau verre portefeuille carte de credit, Chaise lit couverture oreiller	CW	(AB-F)
UM05	15-12	2150	5345.8	Fri	Active but too weak to copy	CW	(AB)
UM05	16-12	0701	5345.8	Sat	Glace Chair Pomme Pomme Tree Arbre (R), 43 sec silence, Fleur House Montagne Mountain Rain Flower (R), 46 sec sil	CW	(AB)
UM05	16-12	0830	5345	Sat	5345 8 forest earth ice star riviere river (R)	CW	(HFD)
UM05	17-12	0504	5345.8	Sun	EAU WIND OISEAU TABLE SOLEIL	CW	(SOB)
UM05	17-12	0702	5435.8	Sun	Eau Book Earth Moon Soleil Ciel (R) 20 sec silence, Table Star Chat Flower River Montagne (R)	CW	(AB)
UM05	18-12	0641	5345.8	Mon	Active but too weak to copy	CW	(AB-F)
UM05	19-12	0640	5345.8	Tue	Neige Book River Book Foret Sable (R)	CW	(AB-F)
UM05	20-12	0612	5345.8	Wed	Active; too weak to copy	CW	(AB-F)
UM05	21-12	0835	5345.8	Thu	Eau Door Earth Moon Soleil Ciel (R) 20 sec silence, Sable Feu Table Air Pluie House Sable (R), etc.	CW	(AB-F)
UM05	22-12	0554	5345.8	Fri	i.p.Glance Chair Pomme Pomme Tree Arbre (R) 1m42s silence, Sun Soleil Flower Maison Rain Mountain (R)	CW	(AB-F)
UM05	23-12	0742	5345.8	Sat	Glance Sable Voiture Foret Sun Star (R) 7sec silence, Chaise House Pluie Cloud Bird Air (R) etc.	CW	(AB)
UM05	24-12	0715	5435.8	Sun	Sun Soleil Flower Maison Rain Mountain (R) 17 sec silence, Neige Poisson Oiseau Air Chaise Cloud (R)	CW	(AB)
UM05	24-12	2118	5435.8	Sun	Air Oiseau Toile Car Book Voiture (R) 8sec silence, Apple Pluie Neige Vent Pluie Chaise (R) etc.	CW	(AB)
UM05	25-12	0623	5345.8	Mon	Eau Book Earth Moor Soleil Ciel (R) 20sec silence, Neige Book River Book Foret Sable (R) etc.	CW	(AB-F)
UM05	26-12	0743	5345.8	Tue	Chiel Fish Book House Terre Moon (R) 14sec silence, Pomme Forest Nuage Dog Ice Lune (R)	CW	(AB-F)
UM05	27-12	0609	5345.8	Wed	i.p. Oisau Pomme Earth Sea Cat Star Table Wind (R)	CW	(AB-F)
UM05	28-12	0613	5345.8	Thu	i.p. Pomme Earth Sea Cat Star Oiseau (R)	CW	(AB-F)
UM05	29-12	0916	5345.8	Fri	Apple Pluie Neige Vent Pluie Chaise (R)	CW	(AB-F)
UM05	30-12	0714	5345.8	Sat	Apple Pluie Neige Vent Pluie Chaise (R)	CW	(AB)
UM05	31-12	0648	5435.8	Sun	Sun Soleil Flower Maison Rain Mountain (R)	CW	(AB)
V07	3-12	0200	18249	Sun	295 295 295 1 675 89 675 89 36695 70398 61094 ... 36360 95436 70464 000 000	USB	(Dan/HFD-USA)
V07	3-12	0220	15949	Sun	295 295 295 1 675 89 675 89 36695 70398 61094 ... 36360 95436 70464 000 000	USB	(HFD-USA)
V07	3-12	0240	14549	Sun	295 295 295 1 675 89 675 89 36695 70398 61094 ... 36360 95436 70464 000 000	USB	(HFD-USA)
V07	10-12	0200	18249	Sun	295 295 295 1 6457 116 6457 116 81863 58545 18766 ... 39768 64430 16020 000 000	USB	(Dan)
V07	17-12	0200	18249	Sun	295 295 295 1 400 74 400 74 64261 37416 11342 ... 65791 24374 52288 000 000	USB	(Dan)

V07	24-12	0200	18249	Sun	295 295 295 1 7854 61 7854 61 68753 94014 45780 ... 78778 36636 15762 000 000	USB	(Dan)
V07	31-12	0200	18249	Sun	295 295 295 1 633 112 633 112 75846 68792 30515 ... 43168 89397 95316 000 000	USB	(Dan)
V13	23-12	1200	13974	Sat	New Star Broadcasting	USB	(AB-TWN)
V13	23-12	1300	11430	Sat	New Star Broadcasting	USB	(AB-TWN)
V13	30-12	1229	13974	Sat	New Star Broadcasting	USB	(AB-TWN)
V13	30-12	1330	11430	Sat	New Star Broadcasting	USB	(AB-TWN)
VC01	23-12	1155	3792	Sat	Chinese Air Defense aka Chinese Robot	USB	(AB-TWN)
VC01	23-12	1301	3792	Sat	Chinese Air Defense aka Chinese Robot	USB	(AB-TWN)
X06	1-12	1021	14824	Fri	MFA Moscow clg 625413: Russian embassy Tel Aviv	MFSK-6	(AB/RO)
X06	4-12	0904	13395	Mon	MFA Moscow clg 532614: Russian embassy Paris	MFSK-6	(RO)
X06	4-12	0929	14825	Mon	MFA Moscow clg 641523: Russian embassy Lusaka	MFSK-6	(RO)
X06	4-12	0933	18750	Mon	MFA Moscow clg 641523: Russian embassy Lusaka	MFSK-6	(RO)
X06	5-12	0944	13401	Tue	MFA Moscow clg 154263: Russian embassy Rome	MFSK-6	(RO)
X06	6-12	1128	16115	Wed	MFA Moscow clg 215346: Russian Consulate General Mumbai	MFSK-6	(RXR)
X06	6-12	1139	14650	Wed	MFA Moscow clg 215346: Russian Consulate General Mumbai	MFSK-6	(RXR)
X06	7-12	0820	14447	Thu	MFA Moscow clg 162543: Russian embassy Nicosia	MFSK-6	(Moon)
X06	7-12	0931	16103	Thu	MFA Moscow clg 645321: Russian embassy Ho Chi Minh City	MFSK-6	(RO)
X06	8-12	0803	13405	Fri	MFA Moscow clg 352416: Russian embassy Dar es Salaam	MFSK-6	(AB/RO)
X06	8-12	0840	13377	Fri	MFA Moscow clg 615243: Russian Permanent Mission to the UN, Geneva	MFSK-6	(RO)
X06	10-12	1034	17470	Sun	MFA Moscow clg 216354: Russian Consulate General Chennai	MFSK-6	(Moon)
X06	10-12	1047	15810	Sun	MFA Moscow clg 145632: Russian embassy Algiers	MFSK-6	(RO)
X06	10-12	1050	15918	Sun	MFA Moscow clg 145632: Russian embassy Algiers	MFSK-6	(RO)
X06	11-12	0816	20690	Mon	MFA Moscow clg 156234: Russian embassy Kampala (brief false start)	MFSK-6	(Moon)
X06	11-12	0828	17475	Mon	MFA Moscow clg 156234: Russian embassy Kampala	MFSK-6	(Moon)
X06	11-12	0931	16117	Mon	MFA Moscow clg 463125: Russian embassy Rabat	MFSK-6	(RO/RXR)
X06	12-12	0840	14861	Tue	MFA Moscow clg 542136: Russian embassy Beijing	MFSK-6	(Moon)
X06	12-12	0844	17523	Tue	MFA Moscow clg 542136: Russian embassy Beijing	MFSK-6	(Moon)
X06	13-12	0753	18177	Wed	MFA Moscow clg 164253: Russian embassy Addis Ababa	MFSK-6	(Moon)
X06	15-12	0832	13954	Fri	MFA Moscow clg 213546: Russian embassy Islamabad	MFSK-6	(AB)
X06	21-12	0800	14947	Thu	MFA Moscow clg 351264: Russian embassy Abu Dhabi	MFSK-6	(AB)
X06	21-12	0805	17534	Thu	MFA Moscow clg 351264: Russian embassy Abu Dhabi	MFSK-6	(AB)
X06	21-12	0921	18197	Thu	MFA Moscow clg 645321: Russian Consulate General Ho Chi Minh City	MFSK-6	(AB)
X06	21-12	0923	14947	Thu	MFA Moscow clg 351264: Russian embassy Abu Dhabi	MFSK-6	(AB)
X06	21-12	1333	20627	Thu	MFA Moscow clg 436512: Russian embassy Harare	MFSK-6	(AB)
X06	21-12	1432	10255	Thu	MFA Moscow clg 351264: Russian embassy Abu Dhabi	MFSK-6	(AB)
X06	26-12	0802	13420	Tue	MFA Moscow clg 534216: Russian embassy Baghdad	MFSK-6	(RO)
X06	26-12	0812	14861	Tue	MFA Moscow clg 534216: Russian embassy Beijing	MFSK-6	(RO)
X06	26-12	1006	17520	Tue	MFA Moscow clg 534216: Russian embassy Ashgabat	MFSK-6	(RO)
X06	26-12	1108	17470	Tue	MFA Moscow clg 216354: Russian Consulate General Chennai	MFSK-6	(Moon)
XPA1	1-12	1310	13465	Fri	412 412 412 000 01468 00001 00000 37257	MFSK-20/10Bd	(AB/MPJ/HFD)
XPA1	1-12	1330	12165	Fri	412 412 412 000 01468 00001 00000 37257	MFSK-20/10Bd	(AB/MPJ/HFD)
XPA1	1-12	1350	10265	Fri	412 412 412 000 01468 00001 00000 37257	MFSK-20/10Bd	(AB/MPJ/HFD)

XPA1	6-12	1310	13465	Wed	412 412 412 1 00518 00180 99495 ... 33017 14284 14070	MFSK-20/10Bd	(AB/MPJ)
XPA1	6-12	1330	12165	Wed	412 412 412 1 00518 00180 99495 ... 33017 14284 14070	MFSK-20/10Bd	(AB/MPJ)
XPA1	6-12	1350	10265	Wed	412 412 412 1 00518 00180 99495 ... 33017 14284 14070	MFSK-20/10Bd	(AB/MPJ)
XPA1	8-12	1310	13465	Fri	412 412 412 1 00518 00180 99495 ... 33017 14284 14070	MFSK-20/10Bd	(AB/MPJ)
XPA1	8-12	1330	12165	Fri	412 412 412 1 00518 00180 99495 ... 33017 14284 14070	MFSK-20/10Bd	(AB/MPJ)
XPA1	8-12	1350	10265	Fri	412 412 412 1 00518 00180 99495 ... 33017 14284 14070	MFSK-20/10Bd	(AB/MPJ)
XPA1	13-12	1310	13465	Wed	412 412 412 1 00518 00180 99495 ... 33017 14284 14070	MFSK-20/10Bd	(AB)
XPA1	13-12	1330	12165	Wed	412 412 412 1 00518 00180 99495 ... 33017 14284 14070	MFSK-20/10Bd	(AB)
XPA1	13-12	1350	10265	Wed	412 412 412 1 00518 00180 99495 ... 33017 14284 14070	MFSK-20/10Bd	(AB)
XPA1	15-12	1310	13465	Fri	412 412 412 1 00518 00180 99495 ... 33017 14284 14070	MFSK-20/10Bd	(AB)
XPA1	15-12	1330	12165	Fri	412 412 412 1 00518 00180 99495 ... 33017 14284 14070	MFSK-20/10Bd	(AB)
XPA1	15-12	1350	10265	Fri	412 412 412 1 00518 00180 99495 ... 33017 14284 14070	MFSK-20/10Bd	(AB)
XPA1	20-12	1310	13465	Wed	412 412 412 000 05699 00001 00000 40666	MFSK-20/10Bd	(AB/MPJ)
XPA1	20-12	1330	12165	Wed	412 412 412 000 05699 00001 00000 40666	MFSK-20/10Bd	(AB/MPJ)
XPA1	20-12	1350	10265	Wed	412 412 412 000 05699 00001 00000 40666	MFSK-20/10Bd	(AB/MPJ)
XPA1	22-12	1310	13465	Fri	412 412 412 000 04990 00001 00000 35665	MFSK-20/10Bd	(AB/MPJ)
XPA1	22-12	1330	12165	Fri	412 412 412 000 04990 00001 00000 35665	MFSK-20/10Bd	(AB/MPJ)
XPA1	22-12	1350	10265	Fri	412 412 412 000 04990 00001 00000 35665	MFSK-20/10Bd	(AB/MPJ)
XPA1	27-12	1310	13465	Wed	412 412 412 1 05329 00110 63538 ... 00189 50100 20352	MFSK-20/10Bd	(AB)
XPA1	27-12	1330	12165	Wed	412 412 412 1 05329 00110 63538 ... 00189 50100 20352	MFSK-20/10Bd	(AB)
XPA1	27-12	1350	10265	Wed	412 412 412 1 05329 00110 63538 ... 00189 50100 20352	MFSK-20/10Bd	(AB)
XPA1	29-12	1310	13465	Fri	412 412 412 1 05329 00110 63538 ... 00189 50100 20352	MFSK-20/10Bd	(AB)
XPA1	29-12	1330	12165	Fri	412 412 412 1 05329 00110 63538 ... 00189 50100 20352	MFSK-20/10Bd	(AB)
XPA1	29-12	1350	10265	Fri	412 412 412 1 05329 00110 63538 ... 00189 50100 20352	MFSK-20/10Bd	(AB)
XPA2	1-12	0900	16347	Fri	06814 00105 52314 ... 21583 37331 55375	MFSK-16/20Bd	(AB/HFD)
XPA2	1-12	0920	18247	Fri	06814 00105 52314 ... 21583 37331 55375	MFSK-16/20Bd	(AB/HFD)
XPA2	1-12	0940	19547	Fri	06814 00105 52314 ... 21583 37331 55375	MFSK-16/20Bd	(AB/HFD)
XPA2	1-12	1100	9265	Fri	02481 00121 80187 ... 46974 39694 66062	MFSK-16/20Bd	(AB)
XPA2	1-12	1120	8165	Fri	02481 00121 80187 ... 46974 39694 66062	MFSK-16/20Bd	(AB)
XPA2	1-12	1140	7665	Fri	02481 00121 80187 ... 46974 39694 66062	MFSK-16/20Bd	(AB)
XPA2	1-12	1200	14841	Fri	00394 00074 90690 ... 23989 47207 64052	MFSK-16/20Bd	(AB/MPJ)
XPA2	1-12	1220	16241	Fri	00394 00074 90690 ... 23989 47207 64052	MFSK-16/20Bd	(AB/MPJ)
XPA2	1-12	1240	18241	Fri	00394 00074 90690 ... 23989 47207 64052	MFSK-16/20Bd	(AB/MPJ)
XPA2	2-12	0910	13919	Sat	00605 00089 50281 ... 50189 20967 46716	MFSK-16/20Bd	(AB/HFD)
XPA2	2-12	0930	11519	Sat	00605 00089 50281 ... 50189 20967 46716	MFSK-16/20Bd	(AB/HFD)
XPA2	2-12	0950	10719	Sat	00605 00089 50281 ... 50189 20967 46716	MFSK-16/20Bd	(AB)
XPA2	2-12	1600	6984	Sat	05340 00001 00000 32661	MFSK-16/20Bd	(AB/HFD)
XPA2	2-12	1620	5884	Sat	05340 00001 00000 32661	MFSK-16/20Bd	(AB/HFD)
XPA2	2-12	1640	4784	Sat	05340 00001 00000 32661	MFSK-16/20Bd	(AB/HFD)
XPA2	3-12	0900	16347	Sun	06814 00105 52314 ... 21583 37331 55375	MFSK-16/20Bd	(AB/HFD)
XPA2	3-12	0920	18247	Sun	06814 00105 52314 ... 21583 37331 55375	MFSK-16/20Bd	(AB)
XPA2	3-12	0940	19547	Sun	06814 00105 52314 ... 21583 37331 55375	MFSK-16/20Bd	(AB)

XPA2	4-12	0800	11493	Mon	09899 00125 68728 ... 74535 98061 17414	MFSK-16/20Bd	(AB/HFD)
XPA2	4-12	0820	13393	Mon	09899 00125 68728 ... 74535 98061 17414	MFSK-16/20Bd	(AB/HFD)
XPA2	4-12	0840	13993	Mon	09899 00125 68728 ... 74535 98061 17414	MFSK-16/20Bd	(AB/HFD)
XPA2	4-12	0910	13562	Mon	02243 00001 00000 33656	MFSK-16/20Bd	(AB)
XPA2	4-12	0930	11583	Mon	02243 00001 00000 33656	MFSK-16/20Bd	(AB)
XPA2	4-12	0950	10281	Mon	02243 00001 00000 33656	MFSK-16/20Bd	(AB)
XPA2	4-12	1600	6984	Mon	03920 00259 04709 ... 65824 75089 56474	MFSK-16/20Bd	(AB/MPJ)
XPA2	4-12	1620	5884	Mon	03920 00259 04709 ... 65824 75089 56474	MFSK-16/20Bd	(AB/MPJ)
XPA2	4-12	1640	4784	Mon	03920 00259 04709 ... 65824 75089 56474	MFSK-16/20Bd	(AB/MPJ)
XPA2	5-12	0600	9281	Tue	08780 00001 00000 34670	MFSK-16/20Bd	(AB/HFD)
XPA2	5-12	0620	10481	Tue	08780 00001 00000 34670	MFSK-16/20Bd	(AB/HFD)
XPA2	5-12	0640	11481	Tue	08780 00001 00000 34670	MFSK-16/20Bd	(AB/HFD)
XPA2	5-12	1100	9265	Tue	00682 00090 53172 ... 01089 75986 30212	MFSK-16/20Bd	(AB/HFD)
XPA2	5-12	1120	8165	Tue	00682 00090 53172 ... 01089 75986 30212	MFSK-16/20Bd	(AB/HFD)
XPA2	5-12	1140	7665	Tue	00682 00090 53172 ... 01089 75986 30212	MFSK-16/20Bd	(AB/HFD)
XPA2	5-12	1600	8184	Tue	00546 00260 60863 ... 19652 16336 23500	MFSK-16/20Bd	(AB)
XPA2	5-12	1620	7684	Tue	00546 00260 60863 ... 19652 16336 23500	MFSK-16/20Bd	(AB)
XPA2	5-12	1640	6784	Tue	00546 00260 60863 ... 19652 16336 23500	MFSK-16/20Bd	(AB)
XPA2	6-12	0800	11493	Wed	09899 00125 68728 ... 74535 98061 17414	MFSK-16/20Bd	(AB)
XPA2	6-12	0820	13393	Wed	09899 00125 68728 ... 74535 98061 17414	MFSK-16/20Bd	(AB)
XPA2	6-12	0840	13993	Wed	09899 00125 68728 ... 74535 98061 17414	MFSK-16/20Bd	(AB)
XPA2	6-12	0910	13562	Wed	08220 00001 00000 32262	MFSK-16/20Bd	(AB)
XPA2	6-12	0930	11583	Wed	08220 00001 00000 32262	MFSK-16/20Bd	(AB)
XPA2	6-12	0950	10281	Wed	08220 00001 00000 32262	MFSK-16/20Bd	(AB)
XPA2	6-12	1100	11579	Wed	01231 00001 00000 32654	MFSK-16/20Bd	(AB)
XPA2	6-12	1120	10979	Wed	01231 00001 00000 32654	MFSK-16/20Bd	(AB)
XPA2	6-12	1140	10279	Wed	01231 00001 00000 32654	MFSK-16/20Bd	(AB)
XPA2	6-12	1200	14841	Wed	09422 00138 71796 ... 80879 22036 47031	MFSK-16/20Bd	(AB/MPJ)
XPA2	6-12	1220	16241	Wed	09422 00138 71796 ... 80879 22036 47031	MFSK-16/20Bd	(AB/MPJ)
XPA2	6-12	1240	18241	Wed	09422 00138 71796 ... 80879 22036 47031	MFSK-16/20Bd	(AB/MPJ)
XPA2	7-12	0600	9281	Thu	09603 00001 00000 35661	MFSK-16/20Bd	(AB)
XPA2	7-12	0620	10481	Thu	09603 00001 00000 35661	MFSK-16/20Bd	(AB)
XPA2	7-12	0640	11481	Thu	09603 00001 00000 35661	MFSK-16/20Bd	(AB)
XPA2	7-12	0910	13919	Thu	03352 00001 00000 33660	MFSK-16/20Bd	(AB)
XPA2	7-12	0930	11519	Thu	03352 00001 00000 33660	MFSK-16/20Bd	(AB)
XPA2	7-12	0950	10719	Thu	03352 00001 00000 33660	MFSK-16/20Bd	(AB)
XPA2	7-12	1100	11579	Thu	03211 00001 00000 32654	MFSK-16/20Bd	(AB)
XPA2	7-12	1120	10979	Thu	03211 00001 00000 32654	MFSK-16/20Bd	(AB)
XPA2	7-12	1140	10279	Thu	03211 00001 00000 32654	MFSK-16/20Bd	(AB)
XPA2	7-12	1600	8184	Thu	00546 00260 60863 ... 19652 16336 23500	MFSK-16/20Bd	(AB/MPJ)
XPA2	7-12	1620	7684	Thu	00546 00260 60863 ... 19652 16336 23500	MFSK-16/20Bd	(AB/MPJ)
XPA2	7-12	1640	6784	Thu	00546 00260 60863 ... 19652 16336 23500	MFSK-16/20Bd	(AB/MPJ)

XPA2	8-12	0900	16347	Fri	07537 00001 00000 37262	MFSK-16/20Bd	(AB)
XPA2	8-12	0920	18247	Fri	07537 00001 00000 37262	MFSK-16/20Bd	(AB)
XPA2	8-12	0940	19547	Fri	07537 00001 00000 37262	MFSK-16/20Bd	(AB)
XPA2	8-12	1100	9265	Fri	00682 00090 53172 ... 01089 75986 30212	MFSK-16/20Bd	(AB)
XPA2	8-12	1120	8165	Fri	00682 00090 53172 ... 01089 75986 30212	MFSK-16/20Bd	(AB)
XPA2	8-12	1140	7665	Fri	00682 00090 53172 ... 01089 75986 30212	MFSK-16/20Bd	(AB)
XPA2	8-12	1200	14841	Fri	09422 00138 71796 ... 80879 22036 47031	MFSK-16/20Bd	(AB/MPJ/HFD)
XPA2	8-12	1220	16241	Fri	09422 00138 71796 ... 80879 22036 47031	MFSK-16/20Bd	(AB/MPJ/HFD)
XPA2	8-12	1240	18241	Fri	09422 00138 71796 ... 80879 22036 47031	MFSK-16/20Bd	(AB/MPJ/HFD)
XPA2	9-12	0910	13919	Sat	07301 00001 00000 32257	MFSK-16/20Bd	(AB)
XPA2	9-12	0930	11519	Sat	07301 00001 00000 32257	MFSK-16/20Bd	(AB)
XPA2	9-12	0950	10719	Sat	07301 00001 00000 32257	MFSK-16/20Bd	(AB)
XPA2	9-12	1600	6984	Sat	03920 00259 04709 ... 65824 75089 56474	MFSK-16/20Bd	(AB)
XPA2	9-12	1620	5884	Sat	03920 00259 04709 ... 65824 75089 56474	MFSK-16/20Bd	(AB)
XPA2	9-12	1640	4784	Sat	03920 00259 04709 ... 65824 75089 56474	MFSK-16/20Bd	(AB)
XPA2	10-12	0900	16347	Sun	02154 00001 00000 33657	MFSK-16/20Bd	(AB)
XPA2	10-12	0920	18247	Sun	02154 00001 00000 33657	MFSK-16/20Bd	(AB)
XPA2	10-12	0940	19547	Sun	02154 00001 00000 33657	MFSK-16/20Bd	(AB)
XPA2	11-12	0800	11493	Mon	09899 00125 68728 ... 74535 98061 17414	MFSK-16/20Bd	(AB)
XPA2	11-12	0820	13393	Mon	09899 00125 68728 ... 74535 98061 17414	MFSK-16/20Bd	(AB)
XPA2	11-12	0840	13993	Mon	09899 00125 68728 ... 74535 98061 17414	MFSK-16/20Bd	(AB)
XPA2	11-12	0910	13562	Mon	00651 00166 46058 ... 62415 51961 23572	MFSK-16/20Bd	(AB)
XPA2	11-12	0930	11583	Mon	00651 00166 46058 ... 62415 51961 23572	MFSK-16/20Bd	(AB)
XPA2	11-12	0950	10281	Mon	00651 00166 46058 ... 62415 51961 23572	MFSK-16/20Bd	(AB)
XPA2	11-12	1600	6984	Mon	09403 00001 00000 34661	MFSK-16/20Bd	(AB)
XPA2	11-12	1620	5884	Mon	09403 00001 00000 34661	MFSK-16/20Bd	(AB)
XPA2	11-12	1640	4784	Mon	09403 00001 00000 34661	MFSK-16/20Bd	(AB)
XPA2	12-12	0600	9281	Tue	02054 00077 20920 ... 95782 49148 56220	MFSK-16/20Bd	(AB)
XPA2	12-12	0620	10481	Tue	02054 00077 20920 ... 95782 49148 56220	MFSK-16/20Bd	(AB)
XPA2	12-12	0640	11481	Tue	02054 00077 20920 ... 95782 49148 56220	MFSK-16/20Bd	(AB)
XPA2	12-12	1100	9265	Tue	00682 00090 53172 ... 01089 75986 30212	MFSK-16/20Bd	(AB/HFD)
XPA2	12-12	1120	8165	Tue	00682 00090 53172 ... 01089 75986 30212	MFSK-16/20Bd	(AB/HFD)
XPA2	12-12	1140	7665	Tue	00682 00090 53172 ... 01089 75986 30212	MFSK-16/20Bd	(AB/HFD)
XPA2	12-12	1600	8184	Tue	03262 00001 00000 33261	MFSK-16/20Bd	(AB/HFD)
XPA2	12-12	1620	7684	Tue	03262 00001 00000 33261	MFSK-16/20Bd	(AB/HFD)
XPA2	12-12	1640	6784	Tue	03262 00001 00000 33261	MFSK-16/20Bd	(AB/HFD)
XPA2	13-12	0800	11493	Wed	09899 00125 68728 ... 74535 98061 17414	MFSK-16/20Bd	(AB)
XPA2	13-12	0820	13393	Wed	09899 00125 68728 ... 74535 98061 17414	MFSK-16/20Bd	(AB)
XPA2	13-12	0840	13993	Wed	09899 00125 68728 ... 74535 98061 17414	MFSK-16/20Bd	(AB)
XPA2	13-12	0910	13562	Wed	00651 00166 46058 ... 62415 51961 23572	MFSK-16/20Bd	(AB)
XPA2	13-12	0930	11583	Wed	00651 00166 46058 ... 62415 51961 23572	MFSK-16/20Bd	(AB/HFD)
XPA2	13-12	0950	10281	Wed	00651 00166 46058 ... 62415 51961 23572	MFSK-16/20Bd	(AB/HFD)

XPA2	13-12	1100	11579	Wed	00456 00154 56328 ... 38178 87915 33541	MFSK-16/20Bd	(AB/HFD)
XPA2	13-12	1120	10979	Wed	00456 00154 56328 ... 38178 87915 33541	MFSK-16/20Bd	(AB/HFD)
XPA2	13-12	1140	10279	Wed	00456 00154 56328 ... 38178 87915 33541	MFSK-16/20Bd	(AB/HFD)
XPA2	13-12	1200	14841	Wed	04224 00098 09442 ... 99544 53234 04623	MFSK-16/20Bd	(AB)
XPA2	13-12	1220	16241	Wed	04224 00098 09442 ... 99544 53234 04623	MFSK-16/20Bd	(AB)
XPA2	13-12	1240	18241	Wed	04224 00098 09442 ... 99544 53234 04623	MFSK-16/20Bd	(AB)
XPA2	14-12	0600	9281	Thu	02054 00077 20920 ... 95782 49148 56220	MFSK-16/20Bd	(AB)
XPA2	14-12	0620	10481	Thu	02054 00077 20920 ... 95782 49148 56220	MFSK-16/20Bd	(AB)
XPA2	14-12	0640	11481	Thu	02054 00077 20920 ... 95782 49148 56220	MFSK-16/20Bd	(AB)
XPA2	14-12	0910	13919	Thu	02225 00109 77662 ... 75058 31459 30001	MFSK-16/20Bd	(AB)
XPA2	14-12	0930	11519	Thu	02225 00109 77662 ... 75058 31459 30001	MFSK-16/20Bd	(AB)
XPA2	14-12	0950	10719	Thu	02225 00109 77662 ... 75058 31459 30001	MFSK-16/20Bd	(AB)
XPA2	14-12	1100	11579	Thu	00456 00154 56328 ... 38178 87915 33541	MFSK-16/20Bd	(AB)
XPA2	14-12	1120	10979	Thu	00456 00154 56328 ... 38178 87915 33541	MFSK-16/20Bd	(AB)
XPA2	14-12	1140	10279	Thu	00456 00154 56328 ... 38178 87915 33541	MFSK-16/20Bd	(AB)
XPA2	14-12	1600	8184	Thu	05953 00001 00000 37262	MFSK-16/20Bd	(AB/MPJ)
XPA2	14-12	1620	7684	Thu	05953 00001 00000 37262	MFSK-16/20Bd	(AB/MPJ)
XPA2	14-12	1640	6784	Thu	05953 00001 00000 37262	MFSK-16/20Bd	(AB/MPJ)
XPA2	15-12	0900	16347	Fri	00178 00069 37642 ... 65487 60338 50063	MFSK-16/20Bd	(AB)
XPA2	15-12	0920	18247	Fri	00178 00069 37642 ... 65487 60338 50063	MFSK-16/20Bd	(AB)
XPA2	15-12	0940	19547	Fri	00178 00069 37642 ... 65487 60338 50063	MFSK-16/20Bd	(AB)
XPA2	15-12	1100	9265	Fri	00682 00090 53172 ... 01089 75986 30212	MFSK-16/20Bd	(AB-POL)
XPA2	15-12	1120	8165	Fri	00682 00090 53172 ... 01089 75986 30212	MFSK-16/20Bd	(AB)
XPA2	15-12	1140	7665	Fri	00682 00090 53172 ... 01089 75986 30212	MFSK-16/20Bd	(AB)
XPA2	15-12	1200	14841	Fri	04224 00098 09442 ... 99544 53234 04623	MFSK-16/20Bd	(AB)
XPA2	15-12	1220	16241	Fri	04224 00098 09442 ... 99544 53234 04623	MFSK-16/20Bd	(AB)
XPA2	15-12	1240	18241	Fri	04224 00098 09442 ... 99544 53234 04623	MFSK-16/20Bd	(AB)
XPA2	16-12	0910	13919	Sat	02225 00109 77662 ... 75058 31459 30001	MFSK-16/20Bd	(AB)
XPA2	16-12	0930	11519	Sat	02225 00109 77662 ... 75058 31459 30001	MFSK-16/20Bd	(AB)
XPA2	16-12	0950	10719	Sat	02225 00109 77662 ... 75058 31459 30001	MFSK-16/20Bd	(AB)
XPA2	16-12	1600	6984	Sat	04563 00001 00000 35262	MFSK-16/20Bd	(AB)
XPA2	16-12	1620	5884	Sat	04563 00001 00000 35262	MFSK-16/20Bd	(AB)
XPA2	16-12	1640	4784	Sat	04563 00001 00000 35262	MFSK-16/20Bd	(AB)
XPA2	17-12	0900	16347	Sun	00178 00069 37642 ... 65487 60338 50063	MFSK-16/20Bd	(AB)
XPA2	17-12	0920	18247	Sun	00178 00069 37642 ... 65487 60338 50063	MFSK-16/20Bd	(AB)
XPA2	17-12	0940	19547	Sun	00178 00069 37642 ... 65487 60338 50063	MFSK-16/20Bd	(AB)
XPA2	18-12	0800	11493	Mon	01734 00001 00000 36654	MFSK-16/20Bd	(AB)
XPA2	18-12	0820	13393	Mon	01734 00001 00000 36654	MFSK-16/20Bd	(AB)
XPA2	18-12	0840	13993	Mon	01734 00001 00000 36654	MFSK-16/20Bd	(AB)
XPA2	18-12	0910	13562	Mon	00651 00166 46058 ... 62415 51961 23572	MFSK-16/20Bd	(AB)
XPA2	18-12	0930	11583	Mon	00651 00166 46058 ... 62415 51961 23572	MFSK-16/20Bd	(AB)
XPA2	18-12	0950	10281	Mon	00651 00166 46058 ... 62415 51961 23572	MFSK-16/20Bd	(AB)

XPA2	18-12	1600	6984	Mon	00653 00291 56017 ... 98633 58757 61115	MFSK-16/20Bd	(AB)
XPA2	18-12	1620	5884	Mon	00653 00291 56017 ... 98633 58757 61115	MFSK-16/20Bd	(AB)
XPA2	18-12	1640	4784	Mon	00653 00291 56017 ... 98633 58757 61115	MFSK-16/20Bd	(AB)
XPA2	19-12	0600	9281	Tue	02158 00001 00000 35657	MFSK-16/20Bd	(AB)
XPA2	19-12	0620	10481	Tue	02158 00001 00000 35657	MFSK-16/20Bd	(AB)
XPA2	19-12	0640	11481	Tue	02158 00001 00000 35657	MFSK-16/20Bd	(AB)
XPA2	19-12	1100	9265	Tue	09207 00001 00000 35661	MFSK-16/20Bd	(AB)
XPA2	19-12	1120	8165	Tue	09207 00001 00000 35661	MFSK-16/20Bd	(AB)
XPA2	19-12	1140	7665	Tue	09207 00001 00000 35661	MFSK-16/20Bd	(AB)
XPA2	19-12	1600	8184	Tue	00437 00188 23460 ... 06574 29079 71670	MFSK-16/20Bd	(AB)
XPA2	19-12	1620	7684	Tue	00437 00188 23460 ... 06574 29079 71670	MFSK-16/20Bd	(AB)
XPA2	19-12	1640	6784	Tue	00437 00188 23460 ... 06574 29079 71670	MFSK-16/20Bd	(AB)
XPA2	20-12	0800	11493	Wed	08479 00001 00000 37667	MFSK-16/20Bd	(AB)
XPA2	20-12	0820	13393	Wed	08479 00001 00000 37667	MFSK-16/20Bd	(AB)
XPA2	20-12	0840	13993	Wed	08479 00001 00000 37667	MFSK-16/20Bd	(AB)
XPA2	20-12	0910	13562	Wed	00651 00166 46058 ... 62415 51961 23572	MFSK-16/20Bd	(AB)
XPA2	20-12	0930	11583	Wed	00651 00166 46058 ... 62415 51961 23572	MFSK-16/20Bd	(AB)
XPA2	20-12	0950	10281	Wed	00651 00166 46058 ... 62415 51961 23572	MFSK-16/20Bd	(AB)
XPA2	20-12	1100	11579	Wed	00456 00154 56328 ... 38178 87915 33541	MFSK-16/20Bd	(AB)
XPA2	20-12	1120	10979	Wed	00456 00154 56328 ... 38178 87915 33541	MFSK-16/20Bd	(AB)
XPA2	20-12	1140	10279	Wed	00456 00154 56328 ... 38178 87915 33541	MFSK-16/20Bd	(AB)
XPA2	20-12	1200	14841	Wed	00432 00085 52544 ... 86303 75186 56305	MFSK-16/20Bd	(AB)
XPA2	20-12	1220	16241	Wed	00432 00085 52544 ... 86303 75186 56305	MFSK-16/20Bd	(AB)
XPA2	20-12	1240	18241	Wed	00432 00085 52544 ... 86303 75186 56305	MFSK-16/20Bd	(AB)
XPA2	21-12	0600	9281	Thu	01959 00001 00000 42256	MFSK-16/20Bd	(AB)
XPA2	21-12	0620	10481	Thu	01959 00001 00000 42256	MFSK-16/20Bd	(AB)
XPA2	21-12	0640	11481	Thu	01959 00001 00000 42256	MFSK-16/20Bd	(AB)
XPA2	21-12	0910	13919	Thu	02225 00109 77662 ... 75058 31459 30001	MFSK-16/20Bd	(AB)
XPA2	21-12	0930	11519	Thu	02225 00109 77662 ... 75058 31459 30001	MFSK-16/20Bd	(AB)
XPA2	21-12	0950	10719	Thu	02225 00109 77662 ... 75058 31459 30001	MFSK-16/20Bd	(AB)
XPA2	21-12	1100	11579	Thu	00456 00154 56328 ... 38178 87915 33541	MFSK-16/20Bd	(AB)
XPA2	21-12	1120	10979	Thu	00456 00154 56328 ... 38178 87915 33541	MFSK-16/20Bd	(AB)
XPA2	21-12	1140	10279	Thu	00456 00154 56328 ... 38178 87915 33541	MFSK-16/20Bd	(AB)
XPA2	21-12	1600	8184	Thu	00437 00188 23460 ... 06574 29079 71670	MFSK-16/20Bd	(AB/MPJ)
XPA2	21-12	1620	7684	Thu	00437 00188 23460 ... 06574 29079 71670	MFSK-16/20Bd	(AB/MPJ)
XPA2	21-12	1640	6784	Thu	00437 00188 23460 ... 06574 29079 71670	MFSK-16/20Bd	(AB/MPJ)
XPA2	22-12	0900	16347	Fri	01603 00127 09418 ... 14266 52421 30057	MFSK-16/20Bd	(AB)
XPA2	22-12	0920	18247	Fri	01603 00127 09418 ... 14266 52421 30057	MFSK-16/20Bd	(AB)
XPA2	22-12	0940	19547	Fri	01603 00127 09418 ... 14266 52421 30057	MFSK-16/20Bd	(AB)
XPA2	22-12	1100	9265	Fri	01897 00001 00000 40662	MFSK-16/20Bd	(AB-POL/MPJ)
XPA2	22-12	1120	8165	Fri	01897 00001 00000 40662	MFSK-16/20Bd	(AB-POL/MPJ)
XPA2	22-12	1140	7665	Fri	01897 00001 00000 40662	MFSK-16/20Bd	(AB-POL/MPJ)

XPA2	22-12	1200	14841	Fri	00432 00085 52544 ... 86303 75186 56305	MFSK-16/20Bd	(AB/MPJ)
XPA2	22-12	1220	16241	Fri	00432 00085 52544 ... 86303 75186 56305	MFSK-16/20Bd	(AB/MPJ)
XPA2	22-12	1240	18241	Fri	00432 00085 52544 ... 86303 75186 56305	MFSK-16/20Bd	(AB/MPJ)
XPA2	23-12	0910	13919	Sat	02225 00109 77662 ... 75058 31459 30001	MFSK-16/20Bd	(AB)
XPA2	23-12	0930	11519	Sat	02225 00109 77662 ... 75058 31459 30001	MFSK-16/20Bd	(AB)
XPA2	23-12	0950	10719	Sat	02225 00109 77662 ... 75058 31459 30001	MFSK-16/20Bd	(AB)
XPA2	23-12	1600	6984	Sat	00653 00291 56017 ... 98633 58757 61115	MFSK-16/20Bd	(AB/MPJ)
XPA2	23-12	1620	5884	Sat	00653 00291 56017 ... 98633 58757 61115	MFSK-16/20Bd	(AB/MPJ)
XPA2	23-12	1640	4784	Sat	00653 00291 56017 ... 98633 58757 61115	MFSK-16/20Bd	(AB/MPJ)
XPA2	24-12	0900	16347	Sun	01603 00127 09418 ... 14266 52421 30057	MFSK-16/20Bd	(AB)
XPA2	24-12	0920	18247	Sun	01603 00127 09418 ... 14266 52421 30057	MFSK-16/20Bd	(AB)
XPA2	24-12	0940	19547	Sun	01603 00127 09418 ... 14266 52421 30057	MFSK-16/20Bd	(AB)
XPA2	25-12	0800	11493	Mon	00740 00095 09895 ... 17745 91890 32215	MFSK-16/20Bd	(AB)
XPA2	25-12	0820	13393	Mon	00740 00095 09895 ... 17745 91890 32215	MFSK-16/20Bd	(AB)
XPA2	25-12	0840	13993	Mon	00740 00095 09895 ... 17745 91890 32215	MFSK-16/20Bd	(AB)
XPA2	25-12	0910	13562	Mon	00673 00088 76115 ... 92133 91454 22500	MFSK-16/20Bd	(AB)
XPA2	25-12	0930	11583	Mon	00673 00088 76115 ... 92133 91454 22500	MFSK-16/20Bd	(AB)
XPA2	25-12	0950	10281	Mon	00673 00088 76115 ... 92133 91454 22500	MFSK-16/20Bd	(AB)
XPA2	25-12	1600	6984	Mon	09609 00001 00000 40661	MFSK-16/20Bd	(AB)
XPA2	25-12	1620	5884	Mon	09609 00001 00000 40661	MFSK-16/20Bd	(AB)
XPA2	25-12	1640	4784	Mon	09609 00001 00000 40661	MFSK-16/20Bd	(AB)
XPA2	26-12	0600	9281	Tue	00339 00109 00994 ... 15077 82798 51433	MFSK-16/20Bd	(AB)
XPA2	26-12	0620	10481	Tue	00339 00109 00994 ... 15077 82798 51433	MFSK-16/20Bd	(AB)
XPA2	26-12	0640	11481	Tue	00339 00109 00994 ... 15077 82798 51433	MFSK-16/20Bd	(AB)
XPA2	26-12	1100	9265	Tue	00187 00177 29565 ... 01801 13703 56271	MFSK-16/20Bd	(AB)
XPA2	26-12	1120	8165	Tue	00187 00177 29565 ... 01801 13703 56271	MFSK-16/20Bd	(AB)
XPA2	26-12	1140	7665	Tue	00187 00177 29565 ... 01801 13703 56271	MFSK-16/20Bd	(AB)
XPA2	26-12	1600	8184	Tue	07451 00001 00000 33664	MFSK-16/20Bd	(AB)
XPA2	26-12	1620	7684	Tue	07451 00001 00000 33664	MFSK-16/20Bd	(AB)
XPA2	26-12	1640	6784	Tue	07451 00001 00000 33664	MFSK-16/20Bd	(AB)
XPA2	27-12	0800	11493	Wed	00740 00095 09895 ... 17745 91890 32215	MFSK-16/20Bd	(AB)
XPA2	27-12	0820	13393	Wed	00740 00095 09895 ... 17745 91890 32215	MFSK-16/20Bd	(AB)
XPA2	27-12	0840	13993	Wed	00740 00095 09895 ... 17745 91890 32215	MFSK-16/20Bd	(AB)
XPA2	27-12	0910	13562	Wed	00673 00088 76115 ... 92133 91454 22500	MFSK-16/20Bd	(AB)
XPA2	27-12	0930	11583	Wed	00673 00088 76115 ... 92133 91454 22500	MFSK-16/20Bd	(AB)
XPA2	27-12	0950	10281	Wed	00673 00088 76115 ... 92133 91454 22500	MFSK-16/20Bd	(AB)
XPA2	27-12	1100	11579	Wed	03746 00077 38050 ... 35740 54270 21657	MFSK-16/20Bd	(AB)
XPA2	27-12	1120	10979	Wed	03746 00077 38050 ... 35740 54270 21657	MFSK-16/20Bd	(AB)
XPA2	27-12	1140	10279	Wed	03746 00077 38050 ... 35740 54270 21657	MFSK-16/20Bd	(AB)
XPA2	27-12	1200	14841	Wed	00521 00194 24709 ... 14711 68113 12313	MFSK-16/20Bd	(AB/MPJ)
XPA2	27-12	1220	16241	Wed	00521 00194 24709 ... 14711 68113 12313	MFSK-16/20Bd	(AB/MPJ)
XPA2	27-12	1240	18241	Wed	00521 00194 24709 ... 14711 68113 12313	MFSK-16/20Bd	(AB/MPJ)

XPA2	28-12	0600	9281	Thu	00339 00109 00994 ... 15077 82798 51433	MFSK-16/20Bd	(AB)
XPA2	28-12	0620	10481	Thu	00339 00109 00994 ... 15077 82798 51433	MFSK-16/20Bd	(AB)
XPA2	28-12	0640	11481	Thu	00339 00109 00994 ... 15077 82798 51433	MFSK-16/20Bd	(AB)
XPA2	28-12	0910	13919	Thu	02485 00088 94990 ... 77390 38727 30620	MFSK-16/20Bd	(AB)
XPA2	28-12	0930	11519	Thu	02485 00088 94990 ... 77390 38727 30620	MFSK-16/20Bd	(AB)
XPA2	28-12	0950	10719	Thu	02485 00088 94990 ... 77390 38727 30620	MFSK-16/20Bd	(AB)
XPA2	28-12	1100	11579	Thu	03746 00077 38050 ... 35740 54270 21657	MFSK-16/20Bd	(AB/MPJ)
XPA2	28-12	1120	10979	Thu	03746 00077 38050 ... 35740 54270 21657	MFSK-16/20Bd	(AB/MPJ)
XPA2	28-12	1140	10279	Thu	03746 00077 38050 ... 35740 54270 21657	MFSK-16/20Bd	(AB/MPJ)
XPA2	28-12	1600	8184	Thu	09582 00001 00000 34671	MFSK-16/20Bd	(AB)
XPA2	28-12	1620	7684	Thu	09582 00001 00000 34671	MFSK-16/20Bd	(AB)
XPA2	28-12	1640	6784	Thu	09582 00001 00000 34671	MFSK-16/20Bd	(AB)
XPA2	29-12	0900	16347	Fri	05075 00001 00000 33664	MFSK-16/20Bd	(AB)
XPA2	29-12	0920	18247	Fri	05075 00001 00000 33664	MFSK-16/20Bd	(AB)
XPA2	29-12	0940	19547	Fri	05075 00001 00000 33664	MFSK-16/20Bd	(AB)
XPA2	29-12	1100	9265	Fri	00187 00177 29565 ... 01801 13703 56271	MFSK-16/20Bd	(AB)
XPA2	29-12	1120	8165	Fri	00187 00177 29565 ... 01801 13703 56271	MFSK-16/20Bd	(AB)
XPA2	29-12	1140	7665	Fri	00187 00177 29565 ... 01801 13703 56271	MFSK-16/20Bd	(AB)
XPA2	29-12	1200	14841	Fri	00521 00194 24709 ... 14711 68113 12313	MFSK-16/20Bd	(AB)
XPA2	29-12	1220	16241	Fri	00521 00194 24709 ... 14711 68113 12313	MFSK-16/20Bd	(AB)
XPA2	29-12	1240	18241	Fri	00521 00194 24709 ... 14711 68113 12313	MFSK-16/20Bd	(AB)
XPA2	30-12	0910	13919	Sat	02485 00088 94990 ... 77390 38727 30620	MFSK-16/20Bd	(AB)
XPA2	30-12	0930	11519	Sat	02485 00088 94990 ... 77390 38727 30620	MFSK-16/20Bd	(AB)
XPA2	30-12	0950	10719	Sat	02485 00088 94990 ... 77390 38727 30620	MFSK-16/20Bd	(AB)
XPA2	30-12	1600	6984	Sat	07332 00001 00000 33662	MFSK-16/20Bd	(AB)
XPA2	30-12	1620	5884	Sat	07332 00001 00000 33662	MFSK-16/20Bd	(AB)
XPA2	30-12	1640	4784	Sat	07332 00001 00000 33662	MFSK-16/20Bd	(AB)
XPA2	31-12	0900	16347	Sun	03372 00000 00000 33662	MFSK-16/20Bd	(AB)
XPA2	31-12	0920	18247	Sun	03372 00000 00000 33662	MFSK-16/20Bd	(AB)
XPA2	31-12	0940	19547	Sun	03372 00000 00000 33662	MFSK-16/20Bd	(AB)
XPB1	1-12	1300	20044	Fri	Russian intel.	MFSK-16	(AB/MPJ)
XPB1	1-12	1310	19344	Fri	Russian intel.	MFSK-16	(AB)
XPB1	1-12	1320	18544	Fri	Russian intel.	MFSK-16	(AB)
XPB1	1-12	1330	17444	Fri	Russian intel.	MFSK-16	(AB)
XPB1	1-12	1340	16244	Fri	Russian intel.	MFSK-16	(AB)
XPB1	1-12	1350	14944	Fri	Russian intel.	MFSK-16	(AB)
XPB1	2-12	1100	14483	Sat	Russian intel.	MFSK-16	(AB/HFD)
XPB1	2-12	1110	13983	Sat	Russian intel.	MFSK-16	(AB/HFD)
XPB1	2-12	1120	13483	Sat	Russian intel.	MFSK-16	(AB/HFD)
XPB1	2-12	1130	12183	Sat	Russian intel.	MFSK-16	(AB/HFD)
XPB1	2-12	1140	11583	Sat	Russian intel.	MFSK-16	(AB/HFD)
XPB1	2-12	1150	10983	Sat	Russian intel.	MFSK-16	(AB/HFD)

XPB1	2-12	1200	14978	Sat	Russian intel.	MFSK-16	(AB/HFD)
XPB1	2-12	1210	13978	Sat	Russian intel.	MFSK-16	(AB/HFD)
XPB1	2-12	1220	13378	Sat	Russian intel.	MFSK-16	(AB/HFD)
XPB1	2-12	1230	12178	Sat	Russian intel.	MFSK-16	(AB/HFD)
XPB1	2-12	1240	11078	Sat	Russian intel.	MFSK-16	(AB/HFD)
XPB1	2-12	1250	10278	Sat	Russian intel.	MFSK-16	(AB/HFD)
XPB1	4-12	0600	13919	Mon	Russian intel.	MFSK-16	(AB)
XPB1	4-12	0610	13419	Mon	Russian intel.	MFSK-16	(AB)
XPB1	4-12	0620	13919	Mon	Russian intel.	MFSK-16	(AB)
XPB1	4-12	0630	14418	Mon	Russian intel.	MFSK-16	(AB)
XPB1	4-12	0640	14918	Mon	Russian intel.	MFSK-16	(AB)
XPB1	4-12	0650	15918	Mon	Russian intel.	MFSK-16	(AB)
XPB1	4-12	1100	14483	Mon	Russian intel.	MFSK-16	(AB)
XPB1	4-12	1110	13983	Mon	Russian intel.	MFSK-16	(AB)
XPB1	4-12	1120	13483	Mon	Russian intel.	MFSK-16	(AB)
XPB1	4-12	1130	12183	Mon	Russian intel.	MFSK-16	(AB)
XPB1	4-12	1140	11583	Mon	Russian intel.	MFSK-16	(AB)
XPB1	4-12	1150	10983	Mon	Russian intel.	MFSK-16	(AB)
XPB1	5-12	0600	13919	Tue	Russian intel.	MFSK-16	(AB/HFD)
XPB1	5-12	0610	13419	Tue	Russian intel.	MFSK-16	(AB/HFD)
XPB1	5-12	0620	13919	Tue	Russian intel.	MFSK-16	(AB/HFD)
XPB1	5-12	0630	14418	Tue	Russian intel.	MFSK-16	(AB/HFD)
XPB1	5-12	0640	14918	Tue	Russian intel.	MFSK-16	(AB/HFD)
XPB1	5-12	0650	15918	Tue	Russian intel.	MFSK-16	(AB/HFD)
XPB1	5-12	1300	20044	Tue	Russian intel.	MFSK-16	(AB/MPJ)
XPB1	5-12	1310	19344	Tue	Russian intel.	MFSK-16	(AB)
XPB1	5-12	1320	18544	Tue	Russian intel.	MFSK-16	(AB)
XPB1	5-12	1330	17444	Tue	Russian intel.	MFSK-16	(AB)
XPB1	5-12	1340	16244	Tue	Russian intel.	MFSK-16	(AB)
XPB1	5-12	1350	14944	Tue	Russian intel.	MFSK-16	(AB)
XPB1	6-12	1200	14978	Wed	Russian intel.	MFSK-16	(AB)
XPB1	6-12	1210	13978	Wed	Russian intel.	MFSK-16	(AB)
XPB1	6-12	1220	13378	Wed	Russian intel.	MFSK-16	(AB)
XPB1	6-12	1230	12178	Wed	Russian intel.	MFSK-16	(AB)
XPB1	6-12	1240	11078	Wed	Russian intel.	MFSK-16	(AB)
XPB1	6-12	1250	10278	Wed	Russian intel.	MFSK-16	(AB)
XPB1	8-12	1300	20044	Fri	Russian intel.	MFSK-16	(AB/HFD)
XPB1	8-12	1310	19344	Fri	Russian intel.	MFSK-16	(AB/HFD)
XPB1	8-12	1320	18544	Fri	Russian intel.	MFSK-16	(AB/HFD)
XPB1	8-12	1330	17444	Fri	Russian intel.	MFSK-16	(AB/HFD)
XPB1	8-12	1340	16244	Fri	Russian intel.	MFSK-16	(AB/HFD)
XPB1	8-12	1350	14944	Fri	Russian intel.	MFSK-16	(AB/HFD)

XPB1	9-12	1100	14483	Sat	Russian intel.	MFSK-16	(AB)
XPB1	9-12	1110	13983	Sat	Russian intel.	MFSK-16	(AB)
XPB1	9-12	1120	13483	Sat	Russian intel.	MFSK-16	(AB)
XPB1	9-12	1130	12183	Sat	Russian intel.	MFSK-16	(AB)
XPB1	9-12	1140	11583	Sat	Russian intel.	MFSK-16	(AB)
XPB1	9-12	1150	10983	Sat	Russian intel.	MFSK-16	(AB)
XPB1	9-12	1200	14978	Sat	Russian intel.	MFSK-16	(AB)
XPB1	9-12	1210	13978	Sat	Russian intel.	MFSK-16	(AB)
XPB1	9-12	1220	13378	Sat	Russian intel.	MFSK-16	(AB)
XPB1	9-12	1230	12178	Sat	Russian intel.	MFSK-16	(AB)
XPB1	9-12	1240	11078	Sat	Russian intel.	MFSK-16	(AB)
XPB1	9-12	1250	10278	Sat	Russian intel.	MFSK-16	(AB)
XPB1	11-12	0600	13919	Mon	Russian intel.	MFSK-16	(AB)
XPB1	11-12	0610	13419	Mon	Russian intel.	MFSK-16	(AB)
XPB1	11-12	0620	13919	Mon	Russian intel.	MFSK-16	(AB)
XPB1	11-12	0630	14418	Mon	Russian intel.	MFSK-16	(AB)
XPB1	11-12	0640	14918	Mon	Russian intel.	MFSK-16	(AB)
XPB1	11-12	0650	15918	Mon	Russian intel.	MFSK-16	(AB)
XPB1	11-12	1100	14483	Mon	Russian intel.	MFSK-16	(AB)
XPB1	11-12	1110	13983	Mon	Russian intel.	MFSK-16	(AB)
XPB1	11-12	1120	13483	Mon	Russian intel.	MFSK-16	(AB)
XPB1	11-12	1130	12183	Mon	Russian intel.	MFSK-16	(AB)
XPB1	11-12	1140	11583	Mon	Russian intel.	MFSK-16	(AB)
XPB1	11-12	1150	10983	Mon	Russian intel.	MFSK-16	(AB)
XPB1	12-12	0600	13919	Tue	Russian intel.	MFSK-16	(AB)
XPB1	12-12	0610	13419	Tue	Russian intel.	MFSK-16	(AB)
XPB1	12-12	0620	13919	Tue	Russian intel.	MFSK-16	(AB)
XPB1	12-12	0630	14418	Tue	Russian intel.	MFSK-16	(AB)
XPB1	12-12	0640	14918	Tue	Russian intel.	MFSK-16	(AB)
XPB1	12-12	0650	15918	Tue	Russian intel.	MFSK-16	(AB)
XPB1	12-12	1300	20044	Tue	Russian intel.	MFSK-16	(AB)
XPB1	12-12	1310	19344	Tue	Russian intel.	MFSK-16	(AB)
XPB1	12-12	1320	18544	Tue	Russian intel.	MFSK-16	(AB)
XPB1	12-12	1330	17444	Tue	Russian intel.	MFSK-16	(AB)
XPB1	12-12	1340	16244	Tue	Russian intel.	MFSK-16	(AB)
XPB1	12-12	1350	14944	Tue	Russian intel.	MFSK-16	(AB)
XPB1	13-12	1200	14978	Wed	Russian intel.	MFSK-16	(AB)
XPB1	13-12	1210	13978	Wed	Russian intel.	MFSK-16	(AB)
XPB1	13-12	1220	13378	Wed	Russian intel.	MFSK-16	(AB)
XPB1	13-12	1230	12178	Wed	Russian intel.	MFSK-16	(AB)
XPB1	13-12	1240	11078	Wed	Russian intel.	MFSK-16	(AB)
XPB1	13-12	1250	10278	Wed	Russian intel.	MFSK-16	(AB)

XPB1	15-12	1300	20044	Fri	Russian intel.	MFSK-16	(AB)
XPB1	15-12	1310	19344	Fri	Russian intel.	MFSK-16	(AB)
XPB1	15-12	1320	18544	Fri	Russian intel.	MFSK-16	(AB)
XPB1	15-12	1330	17444	Fri	Russian intel.	MFSK-16	(AB)
XPB1	15-12	1340	16244	Fri	Russian intel.	MFSK-16	(AB)
XPB1	15-12	1350	14944	Fri	Russian intel.	MFSK-16	(AB)
XPB1	16-12	1100	14483	Sat	Russian intel.	MFSK-16	(AB)
XPB1	16-12	1110	13983	Sat	Russian intel.	MFSK-16	(AB)
XPB1	16-12	1120	13483	Sat	Russian intel.	MFSK-16	(AB)
XPB1	16-12	1130	12183	Sat	Russian intel.	MFSK-16	(AB/Tel)
XPB1	16-12	1140	11583	Sat	Russian intel.	MFSK-16	(AB)
XPB1	16-12	1150	10983	Sat	Russian intel.	MFSK-16	(AB)
XPB1	16-12	1200	14978	Sat	Russian intel.	MFSK-16	(AB)
XPB1	16-12	1210	13978	Sat	Russian intel.	MFSK-16	(AB)
XPB1	16-12	1220	13378	Sat	Russian intel.	MFSK-16	(AB)
XPB1	16-12	1230	12178	Sat	Russian intel.	MFSK-16	(AB)
XPB1	16-12	1240	11078	Sat	Russian intel.	MFSK-16	(AB)
XPB1	16-12	1250	10278	Sat	Russian intel.	MFSK-16	(AB)
XPB1	18-12	0600	13919	Mon	Russian intel.	MFSK-16	(AB)
XPB1	18-12	0610	13419	Mon	Russian intel.	MFSK-16	(AB)
XPB1	18-12	0620	13919	Mon	Russian intel.	MFSK-16	(AB)
XPB1	18-12	0630	14418	Mon	Russian intel.	MFSK-16	(AB)
XPB1	18-12	0640	14918	Mon	Russian intel.	MFSK-16	(AB)
XPB1	18-12	0650	15918	Mon	Russian intel.	MFSK-16	(AB)
XPB1	18-12	1100	14483	Mon	Russian intel.	MFSK-16	(AB)
XPB1	18-12	1110	13983	Mon	Russian intel.	MFSK-16	(AB)
XPB1	18-12	1120	13483	Mon	Russian intel.	MFSK-16	(AB)
XPB1	18-12	1130	12183	Mon	Russian intel.	MFSK-16	(AB)
XPB1	18-12	1140	11583	Mon	Russian intel.	MFSK-16	(AB)
XPB1	18-12	1150	10983	Mon	Russian intel.	MFSK-16	(AB)
XPB1	19-12	0600	13919	Tue	Russian intel.	MFSK-16	(AB)
XPB1	19-12	0610	13419	Tue	Russian intel.	MFSK-16	(AB)
XPB1	19-12	0620	13919	Tue	Russian intel.	MFSK-16	(AB)
XPB1	19-12	0630	14418	Tue	Russian intel.	MFSK-16	(AB)
XPB1	19-12	0640	14918	Tue	Russian intel.	MFSK-16	(AB)
XPB1	19-12	0650	15918	Tue	Russian intel.	MFSK-16	(AB)
XPB1	19-12	1300	20044	Tue	Russian intel.	MFSK-16	(AB)
XPB1	19-12	1310	19344	Tue	Russian intel.	MFSK-16	(AB)
XPB1	19-12	1320	18544	Tue	Russian intel.	MFSK-16	(AB)
XPB1	19-12	1330	17444	Tue	Russian intel.	MFSK-16	(AB)
XPB1	19-12	1340	16244	Tue	Russian intel.	MFSK-16	(AB)
XPB1	19-12	1350	14944	Tue	Russian intel.	MFSK-16	(AB)

XPB1	20-12	1200	14978	Wed	Russian intel.	MFSK-16	(AB)
XPB1	20-12	1210	13978	Wed	Russian intel.	MFSK-16	(AB)
XPB1	20-12	1220	13378	Wed	Russian intel.	MFSK-16	(AB)
XPB1	20-12	1230	12178	Wed	Russian intel.	MFSK-16	(AB)
XPB1	20-12	1240	11078	Wed	Russian intel.	MFSK-16	(AB)
XPB1	20-12	1250	10278	Wed	Russian intel.	MFSK-16	(AB)
XPB1	22-12	1300	20044	Fri	Russian intel.	MFSK-16	(AB)
XPB1	22-12	1310	19344	Fri	Russian intel.	MFSK-16	(AB)
XPB1	22-12	1320	18544	Fri	Russian intel.	MFSK-16	(AB)
XPB1	22-12	1330	17444	Fri	Russian intel.	MFSK-16	(AB)
XPB1	22-12	1340	16244	Fri	Russian intel.	MFSK-16	(AB)
XPB1	22-12	1350	14944	Fri	Russian intel.	MFSK-16	(AB)
XPB1	23-12	1100	14483	Sat	Russian intel.	MFSK-16	(AB)
XPB1	23-12	1110	13983	Sat	Russian intel.	MFSK-16	(AB)
XPB1	23-12	1120	13483	Sat	Russian intel.	MFSK-16	(AB)
XPB1	23-12	1130	12183	Sat	Russian intel.	MFSK-16	(AB)
XPB1	23-12	1140	11583	Sat	Russian intel.	MFSK-16	(AB)
XPB1	23-12	1150	10983	Sat	Russian intel.	MFSK-16	(AB)
XPB1	23-12	1200	14978	Sat	Russian intel.	MFSK-16	(AB)
XPB1	23-12	1210	13978	Sat	Russian intel.	MFSK-16	(AB)
XPB1	23-12	1220	13378	Sat	Russian intel.	MFSK-16	(AB)
XPB1	23-12	1230	12178	Sat	Russian intel.	MFSK-16	(AB)
XPB1	23-12	1240	11078	Sat	Russian intel.	MFSK-16	(AB)
XPB1	23-12	1250	10278	Sat	Russian intel.	MFSK-16	(AB)
XPB1	25-12	0600	13919	Mon	Russian intel.	MFSK-16	(AB)
XPB1	25-12	0610	13419	Mon	Russian intel.	MFSK-16	(AB)
XPB1	25-12	0620	13919	Mon	Russian intel.	MFSK-16	(AB)
XPB1	25-12	0630	14418	Mon	Russian intel.	MFSK-16	(AB)
XPB1	25-12	0640	14918	Mon	Russian intel.	MFSK-16	(AB)
XPB1	25-12	0650	15918	Mon	Russian intel.	MFSK-16	(AB)
XPB1	25-12	1100	14483	Mon	Russian intel.	MFSK-16	(AB)
XPB1	25-12	1110	13983	Mon	Russian intel.	MFSK-16	(AB)
XPB1	25-12	1120	13483	Mon	Russian intel.	MFSK-16	(AB)
XPB1	25-12	1130	12183	Mon	Russian intel.	MFSK-16	(AB)
XPB1	25-12	1140	11583	Mon	Russian intel.	MFSK-16	(AB)
XPB1	25-12	1150	10983	Mon	Russian intel.	MFSK-16	(AB)
XPB1	26-12	0600	13919	Tue	Russian intel.	MFSK-16	(AB)
XPB1	26-12	0610	13419	Tue	Russian intel.	MFSK-16	(AB)
XPB1	26-12	0620	13919	Tue	Russian intel.	MFSK-16	(AB)
XPB1	26-12	0630	14418	Tue	Russian intel.	MFSK-16	(AB)
XPB1	26-12	0640	14918	Tue	Russian intel.	MFSK-16	(AB)
XPB1	26-12	0650	15918	Tue	Russian intel.	MFSK-16	(AB)

XPB1	26-12	1300	20044	Tue	Russian intel.	MFSK-16	(AB)
XPB1	26-12	1310	19344	Tue	Russian intel.	MFSK-16	(AB)
XPB1	26-12	1320	18544	Tue	Russian intel.	MFSK-16	(AB)
XPB1	26-12	1330	17444	Tue	Russian intel.	MFSK-16	(AB)
XPB1	26-12	1340	16244	Tue	Russian intel.	MFSK-16	(AB)
XPB1	26-12	1350	14944	Tue	Russian intel.	MFSK-16	(AB)
XPB1	27-12	1200	14978	Wed	Russian intel.	MFSK-16	(AB)
XPB1	27-12	1210	13978	Wed	Russian intel.	MFSK-16	(AB)
XPB1	27-12	1220	13378	Wed	Russian intel.	MFSK-16	(AB)
XPB1	27-12	1230	12178	Wed	Russian intel.	MFSK-16	(AB)
XPB1	27-12	1240	11078	Wed	Russian intel.	MFSK-16	(AB)
XPB1	27-12	1250	10278	Wed	Russian intel.	MFSK-16	(AB)
XPB1	29-12	1300	20044	Fri	Russian intel.	MFSK-16	(AB)
XPB1	29-12	1310	19344	Fri	Russian intel.	MFSK-16	(AB)
XPB1	29-12	1320	18544	Fri	Russian intel.	MFSK-16	(AB)
XPB1	29-12	1330	17444	Fri	Russian intel.	MFSK-16	(AB)
XPB1	29-12	1340	16244	Fri	Russian intel.	MFSK-16	(AB)
XPB1	29-12	1350	14944	Fri	Russian intel.	MFSK-16	(AB)
XPB1	30-12	1100	14483	Sat	Russian intel.	MFSK-16	(AB)
XPB1	30-12	1110	13983	Sat	Russian intel.	MFSK-16	(AB)
XPB1	30-12	1120	13483	Sat	Russian intel.	MFSK-16	(AB)
XPB1	30-12	1130	12183	Sat	Russian intel.	MFSK-16	(AB)
XPB1	30-12	1140	11583	Sat	Russian intel.	MFSK-16	(AB)
XPB1	30-12	1150	10983	Sat	Russian intel.	MFSK-16	(AB)
XPB1	30-12	1200	14978	Sat	Russian intel.	MFSK-16	(AB)
XPB1	30-12	1210	13978	Sat	Russian intel.	MFSK-16	(AB)
XPB1	30-12	1220	13378	Sat	Russian intel.	MFSK-16	(AB)
XPB1	30-12	1230	12178	Sat	Russian intel.	MFSK-16	(AB)
XPB1	30-12	1240	11078	Sat	Russian intel.	MFSK-16	(AB)
XPB1	30-12	1250	10278	Sat	Russian intel.	MFSK-16	(AB)

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AB-HNG	Ary Boender via remote rx Hungary
AB-J	Ary Boender via remote rx Japan
AB-KOR	Ary Boender via remote rx South Korea
AB-POL	Ary Boender via remote rx Poland
AB-QAT	Ary Boender via remote rx Qatar
AB-ROU	Ary Boender via remote rx Romania
AB-RUS	Ary Boender via remote rx Russia
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APPENDIX

Designators of active stations

Prefixes

E	English language
F	FSK (Frequency Shift Keying) modes
G	German language
HM	Hybrid modes
M(C)	Morse code (Chinese)
P	PSK modes. QPSK (Quadrature Phase Shift Keying) and BPSK (Binary Phase-Shift keying) modes
Q	4+4 QPSK mode
S	Slavic languages
SK	Various modes used by Cuba, incl. (B)PSK, WinDRM
UM(C)	Unid Morse station (Chinese)
V	Voice broadcasts in other languages
VC	Voice Chinese
XP	MFSK (polytone) modes

Active voice stations

Code	Language	Origin	Related stations
E06	English	Russia	E06, S06, M14, F01, F06, F06a
E07	English	Russia	E07, V07, M12, F07, P07, XPA1, XPA2, XPB1
E11	English	Poland	E11, E11a, S11a, F03, P03
E11a	English	Poland	E11, E11a, S11a, F03, P03
S06	Russian	Russia	E06, S06, M14, F01, F06, F06a
S06b	Russian	Russia	E06, S06, M14, F01, F06, F06a
S06c	Russian	Russian	E06, S06, M14, F01, F06, F06a
S11a	Russian	Poland	E11, E11a, S11a, F03, P03
S25	Russian	Russia	
V07	Spanish	Russia	E07, V07, M12, F07, P07, XPA1, XPA2, XPB1
V13	Mandarin	Taiwan	
V26	Chinese	China	M95, Q26, V26
V28	Korean	North Korea	
VC01	Chinese	China	VC03, MC03
VC03	Chinese	China	VC01, MC03

Active morse stations

Code	Mode	Origin	Related stations
M01	Morse	Russia	M01a
M01a	Morse	Russia	M01
M12	Morse	Russia	E07, V07, M12, F07, P07, XPA1, XPA2, XPB1
M14	Morse	Russia	E06, S06, M14, F01, F06, F06a
M14d	Morse	Russia	E06, S06, M14, F01, F06, F06a
M21	Morse	Russia	M41
M22	Morse	Israel	
M23	Morse	France	
M41	Morse	Russia	M21
M51a	Morse	France	M51b
M51b	Morse	France	M51a
M76	Morse	?	
M89	Morse	China	
M95	Morse	China	M95, Q26, V26
MC03	Morse	China	VC01, VC03
UM03	Morse	China	
UM04	Morse	Bulgaria	PROMRCh daily schedule
UM05	Morse	France ?	Loop transmissions. Repeats words, letters or digits for several times. 24/7 operation
UM10	Morse	?	ID repeated for 10 minutes on two parallel frequencies. Seldom messages are sent

Active digital stations

Code	Mode	Origin	Related stations
F01	FSK	Russia	E06, S06, M14, F01, F06, F06a
F02	MFSK-4/150Bd/4000Hz	Russia	
F03	2FSK, 4FSK	Poland	E11, E11a, S11a, P03
F06	FSK	Russia	E06, S06, M14, F01, F06, F06a
F06a	FSK	Russia	E06, S06, M14, F01, F06, F06a
F07	5xMFSK-16/10Bd/20Hz+250Bd BPSK bursts	Russia	E07, V07, M12, F07, P07, XPA1, XPA2, XPB1
HM01	Voice + WinDRM	Cuba	
M42	Various modes	Russia	
P03	BPSK, QPSK	Poland	E11, E11a, S11a, F03
P07	8xQSPK/62.5Bd/125Hz+250Bd BPSK bursts	Russia	E07, V07, M12, F07, P07, XPA1, XPA2, XPB1
Q26	4+4 QPSK	China	M95, Q26, V26
X06	MFSK-6	Russia	
XPA1	MFSK-20	Russia	E07, V07, M12, F07, P07, XPA1, XPA2, XPB1
XPA2	MFSK-16	Russia	E07, V07, M12, F07, P07, XPA1, XPA2, XPB1
XPB1	MFSK-16	Russia	E07, V07, M12, F07, P07, XPA1, XPA2, XPB1

Figures and words used by the various numbers stations

Cut numbers

Chinese cut numbers
(M89, M95, MC03, etc)

A	U	3	4	5	6	7	D	N	T
1	2	3	4	5	6	7	8	9	0

M08a cut numbers

A	N	D	U	W	R	I	G	M	T
1	2	3	4	5	6	7	8	9	0

Q26 conversion

F	J	B	P	G	U	Y	M	C	W
0	1	2	3	4	5	6	7	8	9

Word	E11a	S11a	M03
Attention	Attention	Vnimanye	-
Slash /	Oblique	Cirta	
Out	Out	Konets	

Note: M03 and M08a are defunct.

Figure	English	French	German	Mandarin	Spanish	Russian	Arabic
0	Zero	Zero	Null	Ling	Cero	Null	Sifr
1	One	Un	Eins	Yi	Uno	Odín	Wahid
2	Two	Deux	Zwei	Er	Dos	Dva	Itnien
3	Three	Trois	Drei	San	Tres	Tri	Talata
4	Four	Quatre	Vier	Si	Cuatro	Chety're	Arba`a
5	Five	Cinq	Fünf	Wu	Cinco	Pyat'	Xamsa
6	Six	Six	Sechs	Liu	Seis	Shest'	Sitta
7	Seven	Sept	Sieben	Qi	Siete	Sem'	Sab`a
8	Eight	Huit	Acht	Ba	Ocho	Vósem'	Tamanya
9	Nine	Neuf	Neun	Jiu	Nueve	Dévyat'	Tiss`a

Figure	Morse	Vietnamese	E17z	S11a	G06	E11
0	— — — — —	Số không	Zero	Nul	Null	Zero
1	. — — — —	Một	Van	Adinka	Eins	One
2	.. — — —	Hai	To	Dwojka	Twso	Two
3	... — —	Ba	Fwee	Trojka	Drei	Three
4	.... —	Bô'n	Fo	Cienciorka	Vier	Four
5	Năm	Fav	Pietiorka	Funuf	Fiver
6	—	Sáu	Six	Szest	Sechs	Six
7	— — — ..	Ba|y	Seven	Siem	Sieben	Seven
8	— — — . .	Tám	Eight	Wosiem	Acht	Eight
9	— — — — .	Chín	Nine	Diewiet	Neugen	Niner
=	—					
/	—					

Morse characters

A	. -	1	. - - - -	Full stop (period)	[.]	. - . - . -
B	- . . .	2	. . - - -	Comma	[,]	- . . . - -
C	- . . .	3	. . . - -	Colon	[:]	- - - . . .
D	- . .	4	. . . . -	Question mark	[?]	. . - - . .
E	.	5	. . . . .	Exclamation mark	[!]	- . - . - -
F	. . - .	6	-	Apostrophe	[']	. - - - - .
G	- - .	7	- - . . .	Dash or Hyphen	[-]	- -
H	. . . .	8	- - - . .	Slash	[/]	- . . - .
I	. .	9	- - - - .	Left-hand bracket	[(]	- . - - .
J	. - - -	0	- - - - -	Right-hand bracket	[)]	- . - - - .
K	- . -			Quotation marks	[" "]	. - . . - .
L	. - . .			Equals sign	[BT =]	- . . . -
M	- -	Accented letters		Understood		. . . - .
N	- .	Ä	. - . -	Plus sign	[+]	. - . - .
O	- - -	Á	. - - - -	Invitation to transmit		- . -
P	. - - .	CH	- - - -	Wait	[AS]	. - . . .
Q	- - - .	É	. . - . .	End of Transmission	[SK, VA]	. . . - . -
R	. - .	Ö	- - - .	End of message	[AR]	. - . - .
S	. . .	Ü	. . - -	Starting signal		- . - . -
T	-			Multiplication sign	[×]	- . . -
U	. . -			At sign	[@]	. - - . - .
V	. . . -			Break	[BK]	- . . . - . -
W	. - -			Ampersand	[&]	. - . . .
X	- . . .					
Y	- . - -					
Z	- - . .					

See also
<http://udxf.nl/Morse-document.pdf>
<http://udxf.nl/Russian.pdf>

E11 family digital transmission modes.

Most modes are very much the same and have only very small differences.

FSK transmissions

F03a	FSK-2 100Bd/200Hz cf + 600Hz
F03b	FSK-2 200Bd/400Hz
F03c	FSK-2 400Bd/960Hz/cf +1120Hz/448-bit period
F03d	FSK-2 200Bd/400Hz/cf +600Hz/448-bit period
F03f	FSK-2 400Bd/800Hz/cf +1200Hz/496-bit period
F03g	BPSK 50Bd/1000Hz/464 bits
F03h	BPSK 100Bd/1000Hz/512 bits
F03i	FSK-2 100Bd/800Hz/cf +1200Hz/488-bit period
F03j	FSK-4 100Bd/400Hz/cf +1200Hz/448-bit period
F03k	FSK-2 400Bd/800Hz/cf +1200Hz/448-bit period
F03l	FSK-2 100Bd/200Hz/cf +700Hz/448-bit period
F11	FSK 100Bd/620Hz and FSK 100Bd/740Hz

PSK transmissions

P03	Undefined PSK
P03a	BPSK 62.5Bd
P03b	QPSK 62.5Bd
P03c	BPSK 125Bd
P03d	QPSK 125Bd/448-bit period
P03e	QPSK 100Bd/488-bit period
P03f	QPSK 200Bd/496-bit period
P03g	BPSK 50Bd/464-bit period
P03h	BPSK 100Bd/512-bit period
P03i	BPSK 62.5Bd/464-bit period
P03j	QPSK 100Bd/504-bit period
P03k	BPSK 100Bd/480-bit period
P03l	QPSK 100Bd/464-bit period

Notes:

- Bit Period is the time needed to transmit one bit
- Defunct modes F03a, F03b, F11, P03a, P03b, P03c

COLOPHON

"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.

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 - HF UNDERGROUND <http://www.hfunderground.com/board/>
 - PRIYOM <http://priyom.org/>
 - ENIGMA <http://www.signalshed.com/>
- NUMBERS STATIONS SCHEDULES <http://priyom.org/number-stations/station-schedule>

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

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676 27364 92656 89428 61288 74982 36498 32764 81276 81
986 48932 70987 32123 49817 26346 81287 65491 87364 81
721 75654 55656 12737 72727 72727 91918 63473 67867 76
723 87629 37677 32612 53498 71296 28756 18276 98716 87
7269 76329 74698 76857 98678 27681 56781 57681 73648 11
591 87364 87265 96718 27638 12673 84769 28743 98127 01
58 63298 75698 27465 87326 49876 28376 81273 98615 66
67 87432 74328 78674 29867 32867 67867 86786 43216 498
57 68768 68763 34234 34238 68768 62342 48273 48768 234
736 98432 32432 86743 43286 43286 43286 43286 43286 432
743 86743 86743 99867 32867 86743 43286 43286 43243 867
743 86743 86743 86743 86743 86743 86743 86743 86743 432
543 98798 98754 98754 98754 98754 29867 67543 67986 867
76 87698 69876 87698 69876 87612 12341 34867 86798 662
867 43298 65656 56756 56123 32143 14321 32143 14321 321
867 2787 58765 76587 58765 76587 58765 76587 58765 76587
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