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## FOREWORD

Służby i Obywatel published an interesting article about the broadcast facility of the E11 family in Chotomow. Be sure to read it. The picture below shows the transmitter site and one of the antennas.

Read the full story at <https://sluzbyiobywatel.pl/odkrywam-luke-bezpieczenstwa-w-obieckie-sww>

Google translation: [https://sluzbyiobywatel-pl.translate.google/odkrywam-luke-bezpieczenstwa-w-obieckie-sww?x\\_tr\\_sl=auto&x\\_tr\\_tl=en&x\\_tr\\_hl=nl&x\\_tr\\_pto=wapp](https://sluzbyiobywatel-pl.translate.google/odkrywam-luke-bezpieczenstwa-w-obieckie-sww?x_tr_sl=auto&x_tr_tl=en&x_tr_hl=nl&x_tr_pto=wapp)



Picture above © Google Earth. Picture below © Służby i Obywatel





The Russians broadcasted a huge amount of digital messages in October, using various experimental modes. Presumably tests or training messages. Apart from the more complicated digital modes, also XPA2, E07 with E06 voice, S07 and V07 were heard. The logs and transcripts can be found in the various columns. Many of these messages were logged and provided by the Priyom Team. Thanks guys!

We have well over 3900 log entries this month. That's a lot !!! Because of the huge amount of logs, transcripts and recordings that had to be decoded, N&O is a bit delayed.

## VOICE STATIONS

### Russian operator 7 voice tests

There was a test voice session: it featured E07 with the weird pacing and spacing again, except using the actual E07 voice this time rather than E06's voice samples. Then there were brief apparitions of other voices, for just short stretches of callup: S07, the same voice that appeared in 2017; and V07, with an alternate voice.



9142 kHz, 28-10, 1006 UTC **E07** Normal pace  
1000Hz test tone then E07:  
123 123



9142 kHz, 28-10, 1013 UTC **S07**  
123 123 123



9142 kHz, 28-10, 1015 UTC **V07** Alternate voice  
123 123 123 1 123 123 123 1 123 123

### E06

#### 18425/20230 kHz, 06-10/07-10, 0600/0700 UTC

186 327 50  
96406 89146 16171 71582 93262 65719 77980 62760 96822 06921  
26303 42409 17564 84747 94140 15650 56659 57868 13879 14595  
00623 63611 70963 35500 50819 84268 29167 33823 42527 61148  
94619 13137 33238 54826 10798 68826 64879 75018 01657 72499  
29658 28530 05097 08073 94195 58698 63951 95440 61656 74781  
327 50 00000

#### 18425/20230 kHz, 20-10/21-10, 0600/0700 UTC

186 490 52  
24851 13789 03889 45671 40935 14547 19818 37252 29826 94839  
31227 97823 19351 21019 80977 71227 61478 66484 78822 94969  
62469 31163 42534 23622 98662 89206 80155 58788 60099 75852  
68039 58093 89160 49378 04386 21593 06423 89094 42950 79078  
40893 15310 36618 26689 06838 42205 45528 86282 94376 99555  
89432 85992  
490 52 00000

#### 15643/13343 kHz, 11-10, 1000 UTC

#### 14721/12188 kHz, 11-10, 1300/1330 UTC

527 806 49  
08443 88150 74457 25042 99209 31291 97933 87441 67050 03512  
93165 79457 32512 88091 54259 35185 58815 39871 24147 87900  
80481 47161 97867 55260 73081 99214 53694 63664 18730 32705  
79273 47709 47366 55651 84975 85678 57471 72206 21633 57013  
47634 56764 44871 32680 11929 50917 93198 34399 79824  
806 49 00000



**15643/13343 kHz, 20-10, 1000/1030 UTC**

**14721/12188 kHz, 20-10, 1300/1330 UTC**

527 391 48

91068 18768 19160 02511 10709 56417 70957 10775 56135 92648  
40493 14732 29070 81953 04611 95437 94043 18246 64194 88938  
64370 08508 31181 15051 14794 79742 82068 38660 56718 98915  
76364 55719 36988 10570 63420 21156 46128 21804 26071 60849  
47004 89305 34542 34881 59826 88115 09036 44244  
391 48 00000

**15643/13343 kHz, 25-10, 1000/1030 UTC**

**14721/12188 kHz, 25-10, 1300/1330 UTC**

527 608 43

07818 87655 97399 78109 62728 21756 74515 41190 87812 06423  
48286 33234 18957 91677 96727 58841 26797 43850 92289 59244  
87385 67695 56172 02630 27573 02036 80320 12847 62285 74885  
46770 84926 65874 28980 99062 60860 44748 53656 45382 64060  
03451 84017 98123  
608 43 00000

**15643/13343 kHz, 31-10, 1000/1030 UTC**

**14721/12188 kHz, 31-10, 1300/1330 UTC**

527 931 45

76304 22372 57530 87247 79491 54264 97072 86833 94138 47688  
48244 78476 08912 92532 68277 62275 69010 13304 47252 01397  
29114 52613 19297 46826 20882 27422 37555 80963 14689 56478  
05117 41008 80289 82380 79085 08060 76095 36705 89983 72888  
21748 21646 43674 14294 33689  
931 45 00000

Group Count Cycle network
---------------------------

After irregularly incrementing up to 51 groups last month, E06 537 cycled right back to 30 groups, as it should normally have after reaching 50 groups already.

**11513/14613 kHz, 03-10, 0210/0310 UTC**

**11528/14613 kHz, 04-10, 0210/0310 UTC**

537 241 30

39154 77173 01113 87026 57648 90954 58115 20236 03258 09680  
69491 87635 01753 54074 73216 25862 45082 02698 31205 65064  
61894 63324 79961 50919 71368 60828 63749 79242 00028 40008  
241 30 00000

**11528/14613 kHz, 10-10/11-10 UTC, 0210/0310 UTC**

537 908 31

60572 54904 45934 56853 09844 89546 00715 39293 68154 28759  
20517 84227 58682 91817 93677 68183 13250 58812 00506 66988  
57454 65025 28920 52736 89247 62600 26523 72887 68167 35424  
18781  
908 31 00000

**11513/14613 kHz, 17-10, 0210/0310 UTC**

**11528/14613 kHz, 18-10, 0210/0310 UTC**

537 146 32

39514 62342 98830 60114 21316 29101 41193 13906 95772 06910  
47992 87345 13627 16539 33398 77927 70525 52127 22578 58821  
44008 34842 63721 57769 81754 22879 21812 44683 33293 38755  
58819 51359  
146 32 00000

**11528/14613 kHz, 24-10/251-10 UTC, 0210/0310 UTC**

537 982 33  
06052 93684 23083 40427 74820 89779 27596 97156 99119 63651  
04460 47010 16189 88690 31528 08816 42996 38866 99334 13640  
01839 35504 38702 11566 97998 54311 49616 84828 29138 91086  
23562 28219 31115  
982 33 00000

**11513/14613 kHz, 31-10, 0210/0310 UTC**

537 160 34  
73201 07825 51990 57299 77362 25867 37295 03710 31013 12943  
20962 34489 02124 29472 83006 14247 11377 42032 47100 90316  
15343 07962 47383 45585 64360 33517 62957 89691 52307 91486  
49737 37052 00462 09227  
160 34 00000

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**16219/13545 kHz, 06-10, 0300/0400 UTC****16209/13545 kHz, 07-10, 0300/0400 UTC**

361 209 47  
05740 74958 12274 43748 94573 85821 01905 77754 40250 24361  
05052 44084 16562 87736 23507 06647 92839 46512 04596 49617  
02629 06760 45453 67516 37842 99603 34484 41326 73096 21644  
47245 86583 49914 74695 38883 84374 75464 78285 00360 31188  
15560 53332 70629 68542 86559 00468 21957  
209 47 00000

**16219/13545 kHz, 13-10/14-10, 0300/0400 UTC**

361 257 48  
87167 90336 41254 53528 40085 07526 86584 59036 71583 33141  
96967 31004 74163 72143 84497 41303 39185 16362 58487 62348  
33004 93947 16502 41024 60326 54866 15568 73478 31948 78360  
53249 29240 79077 13329 13267 98085 81435 87544 55365 58101  
01303 46666 54096 88371 40717 08964 16221 74734  
257 48 00000

**11513/14613 kHz, 20-10/21-10, 0210/0310 UTC**

361 508 49  
59047 57568 33659 82255 44492 69631 78627 32591 34848 70968  
13857 55278 00043 50938 59759 95427 55828 14351 45630 00762  
22051 41565 53906 61653 16566 26814 55529 06725 26985 05688  
91124 27447 27441 07717 77652 30189 32563 94987 45250 39137  
05845 72733 33924 98541 64592 82832 04800 47700 48645  
508 49 00000

**11513/14613 kHz, 27-10/28-10, 0210/0310 UTC**

361 792 50  
74091 52568 50264 36929 44196 90402 96622 57665 07742 83153  
13885 03621 96193 21019 92482 99094 66754 43607 73387 38670  
15960 26640 75428 92538 50011 52363 41059 04097 16528 87077  
17773 65769 27420 14239 17351 83998 27561 96558 20130 69318  
88941 65551 16469 12478 35007 61958 02626 32529 24857 75485  
792 50 00000



15849/14849/13449 kHz, 1410/1430/1450 UTC

**15849/14849/13449 kHz, 01-10, 1410/1430/1450 UTC**

746 746 746 1 780 80 780 80  
06982 37610 33926 78369 52276 02752 72102 40494 76086 68569  
49949 18022 48118 79710 36813 93526 38820 39268 69687 74941  
25776 86893 78155 31199 56927 32699 59077 07028 87604 61808  
44586 28364 43816 16239 49358 77595 79902 85066 11489 26808  
06991 14149 82676 83952 84894 80602 78988 14064 45635 89383  
57250 39503 02529 72515 46104 70501 59342 00519 11973 20602  
19604 69396 64320 55589 61513 14752 00974 91770 85166 14953  
46758 14706 97088 44929 44125 26672 08314 68978 55661 74878  
000 000

**15849/14849/13449 kHz, 13-10/15-10, 1410/1430/1450 UTC**

747 746 746 1 3362 65 3362 65  
60657 08376 98148 25247 17758 08084 36210 07982 89653 84903  
23300 46272 98516 52181 96481 60291 26655 29600 03555 07952  
14285 50257 83014 88858 88583 27845 25504 02721 00130 83414  
27749 97091 35734 11101 70361 76295 45119 06807 01067 07737  
19703 12496 14426 36897 23881 15752 69121 37359 47838 76490  
82812 57800 55421 92583 12824 37393 98147 10963 12681 36803  
53711 38979 36846 83243 39877 000 000

**15849/14849/13449 kHz, 27-10/29-10, 1410/1430/1450 UTC**

746 746 746 1 976 58 976 58  
65737 38451 24870 17941 40491 27820 29928 78244 58703 31824  
01876 62923 59284 15228 23905 67069 50635 24360 61577 92367  
17724 24704 16018 57676 15112 75388 91211 89227 35551 48984  
48707 05266 79925 68291 68014 47098 83276 74721 59250 42743  
07904 36014 24310 19794 84462 38472 23465 25691 91284 46139  
49841 87244 09208 93440 72619 22620 43700 44636 000 000

17461/16161/14361 kHz, 1500/1520/1540 UTC

**17461/16161/14361 kHz, 11-10/14-10, 1500/1520/1540 UTC**

413 413 413 1 301 112 301 112  
68563 69727 39281 70692 25562 53529 63332 50919 53850 42797  
57204 41337 33869 87238 42679 02134 63382 64246 23345 13329  
15546 83879 88022 47941 05081 89299 77709 95077 56243 35297  
49938 24097 80514 26650 68545 02201 69398 14404 17673 27137  
63862 63814 47294 60436 67433 58680 84862 43551 59419 32151  
62233 01880 20292 48523 55669 45121 64442 45432 48846 99164  
84770 45340 66021 54479 73531 22609 28333 58457 69727 42830  
71882 66437 06008 26532 29777 33522 28417 39035 54133 62047  
57095 69953 58422 98134 11377 17458 44126 77070 27920 90602  
34578 20914 70733 15945 44806 51701 97840 78913 87773 29827  
48690 84188 12960 01387 52726 68330 15264 59282 94613 90208  
27914 53176 000 000

**17461/16161/14361 kHz, 25-10/28-10, 1500/1520/1540 UTC**

413 413 413 1 7240 94 7240 94  
94195 17412 52210 18076 52335 77579 10626 23116 16972 62642  
12263 72149 85739 41511 00622 98972 60938 61539 40584 13248  
24606 28169 32830 52143 91090 85266 22383 92990 10045 36783  
92217 32588 12319 24530 27763 26238 91380 79676 08294 60792  
72171 10895 65433 95264 29546 44382 23203 52735 51492 03665  
53083 30923 59038 26332 73911 06941 00045 01361 48537 99237  
44597 43512 10293 98563 80059 84992 54179 66958 19344 99563  
21640 00137 37043 87981 23659 37075 19982 98898 33407 00145  
61839 61799 15636 74125 49324 82833 95210 24863 69531 10175  
93103 02054 39329 84354 000 000

**9142/10256 kHz, 12-10, 1050/1100 UTC**

**E06 voice, E06 and E07 ending**

123 123 123 1 (R) 3167 1 3167 1 00000 000 000



**10256 kHz, 12-10, 1208 UTC. E06 voice. Very fast**

123 123 123 1 (R) 312 15 312 15

62028 04768 70784 05786 69464 65666 43713 36103 96333 32501

93588 52509 66505 22160 66030

000 000



Voice test transmissions on October 13th used full AM modulation - in a classic fashion. Before 2018, this operator still used AM in scheduled, production E07 broadcasts; those AM broadcasts customarily featured weak modulation and audio levels, despite very strong carriers. True to tradition, these AM test transmissions now were just same in that regard. (PY)

**9283 kHz, 13-10, 1055 UTC, AM. E06 voice. No ID in callup**

2055 17 2055 17

96401 93217 43182 49516 29372 95830 99547 18465 61017 14088

94704 92671 45918 48611 64860 19200 55950

000 000

**9142 kHz, 28-10, 1010 UTC. Wrong pacing and spacing**

123 1 (R1m30s) 5909 1 00000 000 000



## **E11a**

**7317 kHz, 03-10/06-10, 1900 UTC**

648/34 Attention

92354 36805 96344 78455 08324 21449 70314 53815 73646 99314

77603 06744 65083 28495 82565 35689 89463 88196 91446 88477

22605 95178 79673 96823 01243 99719 10215 93804 57918 67689

82899 27852 13833 58884

Attention (message repeated) Out

**9963 kHz, 04-10/07-10, 0715 UTC**

639/36 Attention

64657 89117 42991 82611 52735 30536 17441 20327 46521 85225

37498 62956 09000 99535 90335 79909 09197 98823 48069 81300

26895 20979 25625 05811 36900 39374 03982 54567 36329 70145

36021 17787 84586 09390 48748 40632

Attention (message repeated) Out

**19184 kHz, 04-10/05-10, 0820 UTC**

130/33 Attention

79606 41053 28462 74740 54243 20744 30211 55787 12132 93066

78895 47242 97883 64152 20462 37523 70565 05513 42394 78950

39201 96922 24774 74513 90774 25060 60846 25555 47633 11586

41465 67632 81942

Attention (message repeated) Out

**6923 kHz, 05-10/07-10, 1715 UTC**

978/35 Attention

48725 52446 57670 30928 71777 77132 93710 80759 91756 46497

29997 45719 27090 22420 18864 64190 83956 05555 57794 11630

38693 57050 63827 20198 43478 49215 02817 47557 87635 06329

87231 08410 94002 49199 65531

Attention (message repeated) Out



**4181 kHz, 05-10, 1900 UTC**

121/31 Attention

01056 38450 15055 77658 46500 10101 45653 34655 41435 63010  
43011 01501 04561 05547 66010 10147 56318 45634 50560 15646  
80014 75658 70006 76001 46510 10356 01845 05785 10468 50105  
44808

Attention (message repeated) Out

**4181 kHz, 05-10/08-10, 1910 UTC**

392/39 Attention

65991 68834 33666 84083 03415 37353 24091 45853 87312 21032  
29826 23572 59782 06935 61296 06477 07102 26588 49226 48239  
42280 22246 64637 62152 61699 93540 58450 16931 82370 41591  
14554 27073 74437 83655 55150 06164 41613 72734 15083

Attention (message repeated) Out

**5941 kHz, 06-10/07-10, 0820 UTC**

430/37 Attention

08826 83839 00997 98383 06540 22923 59373 43958 31547 43833  
74837 49971 84885 06152 48874 87596 20193 67254 60786 27563  
11510 20821 98629 25871 20932 45290 13205 99163 05206 61885  
50170 39215 21183 33531 02275 45868 71242

Attention (message repeated) Out

**4356 kHz, 06-10, 2030 UTC**

121/30 Attention

89708 76975 68564 45256 47758 67545 43246 78968 96647 23164  
35867 57589 45354 68679 78656 85354 76895 78595 64743 56567  
38757 85647 55436 76364 87587 43547 65736 44878 75687 64756

Attention (message repeated) Out

**8680 kHz, 07-10/09-10, 0600 UTC**

359/35 Attention

25762 80121 18678 99539 14827 95917 75455 03456 05767 30846  
77423 32670 72211 86971 47486 24478 84564 35381 06459 31941  
85597 98729 46217 13177 65282 41859 94001 52685 35493 85242  
70714 80874 16151 27528 84493

Attention (message repeated) Out

**5371 kHz, 10-10, 0450 UTC**

415/31 Attention

57684 34416 15699 00092 18532 51999 23337 56036 15299 06570  
96073 66652 61250 27413 78886 89684 62724 27230 46623 92400  
69640 72751 82512 94653 92529 31892 70213 96698 97986 47261  
06982

Attention (message repeated) Out

**15905 kHz, 10-10/14-10, 0830 UTC**

184/30 Attention

72280 48261 02986 24546 01398 36911 99402 43457 51507 78297  
74674 99622 50412 57083 77159 47957 03576 56647 28912 89062  
93916 75848 28376 55557 73947 40565 29100 48062 07764 04423

Attention (message repeated) Out

**5371 kHz, 10-10/13-10, 1300 UTC**

314/37 Attention

00936 78436 21461 34440 94131 62001 86468 80145 14580 26566  
23323 49681 67084 61319 66797 36112 27965 25836 35986 80290  
90587 94926 63830 13626 04376 42939 98465 27449 24488 73760  
27878 14062 84971 56967 24958 14355 52241

Attention (message repeated) Out

**13908 kHz, 11-10/13-10, 0845 UTC**

150/31 Attention

08211 66000 39976 10230 73318 86754 21222 31078 77891 02035  
38198 52957 46254 79804 55195 71263 58802 06124 16721 83424  
85202 52770 04810 33528 94254 23790 49474 68360 18556 92879  
87882 (8782)

Attention (message repeated) Out

**9951 kHz, 11-10/14-10, 1000 UTC**

304/22 Attention

20613 23898 27261 35436 77079 71388 26032 87869 09512 57457  
40575 67446 70504 42671 49630 71547 72727 50329 85367 75708  
69322 17936

Attention (message repeated) Out

**12530 kHz, 11-10/13-10, 1230 UTC**

337/35 Attention

98639 98430 61274 48268 50574 70480 62147 26528 13104 97108  
93511 08077 83151 27724 28462 28716 95162 67048 13773 59326  
85931 33970 84610 72756 27434 96043 41551 29621 48344 34665  
84670 76932 87563 93981 05943

Attention (message repeated) Out

**8530 kHz, 14-10/16-10 1910 UTC**

611/40 Attention

96918 32479 21263 41349 71709 36835 07949 82650 78063 33791  
62035 72230 46667 42426 25936 36907 67628 54018 77264 14767  
62464 53194 85981 47500 08357 22789 12721 58726 84813 94310  
53895 12532 40268 92120 41619 18336 35174 36357 32728 24506

Attention (message repeated) Out

**14865 kHz, 17-10/19-10, 0640 UTC**

942/36 Attention

34141 02094 53295 06543 01442 29413 52591 59737 85226 74937  
80602 07017 03358 34580 66115 72856 08609 27550 59085 07614  
58212 11076 60666 46019 15308 51453 74918 40271 47257 04945  
84497 41460 81974 01905 57389 19110

Attention (message repeated) Out

**15632 kHz, 17-10/19-10, 0715 UTC**

755/33 Attention

11473 48822 02024 39156 02680 93485 99294 40351 73019 05199  
95300 34095 76638 54531 85605 79198 41284 94337 17388 70814  
03657 55963 39745 18453 56592 83520 81560 27276 14035 73134  
21761 23131 95003

Attention (message repeated) Out

**10213 kHz, 17-10, 0745 UTC**

261/39 Attention

11050 25941 13831 71619 45960 51203 06626 89667 09389 30953  
90201 26607 81623 13274 63135 55723 46153 82975 65054 49149  
44911 08288 74059 52870 43469 45593 53106 42915 77832 46222  
08909 28745 26983 07858 48434 23091 57308 84803 80390

Attention (message repeated) Out

**12202 kHz, 17-10/19-10, 0845 UTC**

719/34 Attention

58576 69607 77099 49187 24135 22381 67260 00347 45445 31199  
10196 79175 27016 77235 88845 92906 42273 98074 68682 24539  
82313 58917 52079 24088 42212 01424 55087 15880 96143 95357  
93223 03268 01928 14188

Attention (message repeated) Out



**9968 kHz, 17-10/19-10, 0900 UTC**

537/34 Attention

58755 95098 43544 64773 25026 93494 45913 46957 55336 32086  
31191 55052 13013 32689 13433 54714 56330 00978 87748 41508  
98967 20971 90508 50798 08912 43928 06887 75646 21742 79639  
19846 68023 77353 26331

Attention (message repeated) Out

**5176 kHz, 18-10, 1605 UTC**

230/40 Attention

57803 84903 67905 86345 87826 82799 97838 77953 96126 46543  
00921 87330 03618 50679 52152 87516 38388 69893 02267 51431  
35361 87118 95190 14371 76863 29706 39961 95663 22058 84134  
20745 95599 67210 95632 37910 29001 28871 19886 16004 02937

Attention (message repeated) Out

**10330 kHz, 20-10, 1530 UTC**

261/39 Attention

11050 25941 13831 71619 45969 51203 06626 89667 09389 30953  
90201 26607 81623 13274 63135 44723 47153 82975 65054 49149  
44911 08288 74059 52870 43469 45593 53106 42915 77832 46222  
08909 28745 26983 07858 48434 23091 57308 84803 80390

Attention (message repeated) Out

**5176 kHz, 23-10, 1605 UTC**

230/40 Attention

57803 84903 67905 86345 87826 82799 97838 77953 96126 46543  
00921 87330 03618 50679 52152 87516 38388 69893 02267 51431  
35361 87118 95190 14371 76863 29706 39961 95663 22058 84134  
20745 95599 67210 95632 37910 29001 28871 19886 16004 02937

Attention (message repeated) Out

**10200 kHz, 24-10/26-10, 1045 UTC**

696/21 Attention

95016 06198 69126 30777 94529 10857 87648 67129 65878 49111  
81330 70712 38844 07003 28049 10243 76061 97336 38016 32428  
61052

Attention (message repeated) Out

**13470 kHz, 24-10/30-10, 1745 UTC**

240/32 Attention

91275 86715 78517 55638 31314 23927 98882 90492 69084 73623  
73612 25701 85333 07826 41667 86658 75381 47711 71759 08950  
91086 28911 59169 12146 02746 45456 62616 85717 34778 86293  
05216 78332

Attention (message repeated) Out

**8423 kHz, 25-10/27-10, 0645 UTC**

512/38 Attention

01718 17164 03749 69452 59791 19597 07435 04977 28250 18756  
85414 79442 61680 08226 48298 47556 74413 24895 18462 13824  
61031 27889 03571 08596 01367 98388 77723 12417 33967 46529  
95962 67028 04066 25357 56132 85965 83609 97060

Attention (message repeated) Ou

**8180 kHz, 25-10/28-10, 0700 UTC**

573/37 Attention

46486 13845 87096 82982 99515 03373 95575 16976 40803 73217  
62984 88219 46415 73584 46906 66683 65402 04639 39684 02593  
77718 51286 45930 52039 45299 00274 12145 04036 89538 28799  
42315 44998 68559 63311 59961 42167 91624

Attention (message repeated) Out

**14865 kHz, 25-10/27-10, 0745 UTC**

223/31 Attention

42372 16899 63754 34549 27544 54268 97919 34081 83622 26784  
63444 84419 56546 12555 91087 88256 53665 54919 23401 25660  
45672 81142 39592 79080 82725 65531 56722 99331 34887 73207  
19819

Attention (message repeated) Out

**6923 kHz, 25-10/26-10, 1205 UTC**

460/32 Attention

08397 95426 27753 26141 05851 65679 68148 42619 05023 03559  
36966 89547 92175 69335 65773 06748 44903 28835 71837 39032  
68834 79578 31885 35798 70096 90218 28449 89466 77010 35471  
47678 21211

Attention (message repeated) Out

**14972 kHz. 25-10/29-10, 1430 UTC**

915/40 Attention

77571 06814 97057 23738 69315 34702 63342 95984 35117 94545  
95362 26160 18387 44021 90900 55462 35781 58892 34307 84278  
30087 19193 00125 40768 65545 06032 40141 90100 01179 22257  
71843 15626 96010 53451 75401 86546 71790 35023 48122 95124

Attention (message repeated) Out

**17410 kHz, 26-10/28-10, 0745 UTC**

346/34 Attention

98914 94836 19203 23132 81959 52289 97715 41751 33886 71294  
57533 55782 87709 43297 53037 12675 21073 53175 92845 71874  
47030 61192 91661 42718 89035 01422 41370 39696 57371 11880  
27030 71740 50389 48459

Attention (message repeated) Out

**6940 kHz, 26-10/27-10, 0930 UTC**

275/33 Attention

77814 58599 28908 62185 56163 67349 96232 63434 76023 73265  
54665 01991 44562 85350 68619 01166 19227 70057 23263 15673  
17773 30098 28488 90902 07216 37958 14871 48297 44694 49506  
06860 13500 38114

Attention (message repeated) Out

**5737 kHz, 27-10, 2000 UTC**

535/38 Attention

62951 72235 77382 51010 18037 52060 66248 82054 16904 22640  
35315 46377 06891 91377 40595 36661 94779 07237 81491 11323  
74366 73461 26625 59545 55103 62164 80452 05883 65209 14520  
28092 05886 37112 32383 15766 95797 62233 56994

Attention (message repeated) Out

**11116 kHz, 28-10/30-10, 1815 UTC**

929/36 Attention

90912 00682 35606 62372 98977 60190 15682 40005 92065 37076  
04753 62283 23642 71533 60423 85715 36434 21772 96895 83507  
18071 86079 31855 06205 80663 77559 34927 37285 25476 64153  
57425 59550 13519 63971 49635 02795

Attention (message repeated) Out

**9079 kHz, 29-10/30-10, 0700 UTC**

496/38 Attention

59022 95595 99940 20482 67839 64446 46579 17766 14030 78539  
96380 89016 48006 83573 72839 48958 11263 68929 24489 61442  
41244 90676 63082 66879 51752 59482 36477 34219 53907 01609  
37951 91095 94841 22961 72117 28392 13268 49523

Attention (message repeated) Out

**4505 kHz, 29-10/30-10, 1530 UTC**

366/33 Attention

19718 84182 37505 58862 18887 85147 45954 96778 56446 83558  
53143 26903 49420 70085 06197 55538 38256 68154 63202 87474  
99364 35340 47025 61994 22904 62741 57420 79084 93569 12642  
95170 75128 97696

Attention (message repeated) Out

**5737 kHz, 30-10, 2000 UTC**

525/38 Attention

62951 72235 77382 51010 18037 52060 66248 82054 16904 22640  
35315 46377 06891 91377 40595 36661 94779 07237 81491 11323  
74366 73461 26625 59545 55103 62164 80452 05883 65209 14520  
28092 05886 37112 32383 15766 95797 62233 56994

Attention (message repeated) Out

**S06****15674/12203 kHz, 25-10, 1325/1425 UTC**

583 762 41

38946 90885 88774 72529 04557 64568 57119 72770 92782 12988  
96501 60307 04584 47557 72069 76277 97671 91972 52971 94731  
58775 37267 56352 86320 40835 21558 14869 99663 88585 51701  
53693 90079 00953 09020 87911 50363 03704 06306 76281 23304

30786

762 41 00000

**11616/9322 kHz, 03-10, 0400/0420 UTC**

480 975 62

61696 29843 35159 90359 62897 00483 48957 49351 42933 01326  
32955 50581 66903 68388 94850 45599 32870 68517 26559 57431  
48217 74938 50738 56960 30331 64400 75228 78866 05030 03081  
91333 56801 01188 13446 76895 82486 64983 39264 90083 18427  
42223 50944 64851 18927 02160 58395 43982 39094 01255 23594  
10677 36513 10325 90048 04614 95292 53497 71337 33416 27153

32423 65929

975 62 00000

**11616/9322 kHz, 04-10, 0400/0420 UTC**

480 263 51

41377 13279 91598 64300 93492 93773 21288 86994 69131 37384  
39384 42434 94834 27091 87128 43530 43731 46384 46215 94926  
94882 44744 09910 67314 98582 32890 03080 16364 64802 93766  
80852 94733 16974 20182 60564 30583 78279 15046 66698 71016  
82663 15143 93506 13919 27729 24378 14981 76601 11718 67433

96891

263 51 00000

**11616/9322 kHz, 05-10, 0400/0420 UTC**

480 175 62

49384 86750 60742 16904 05812 01207 09357 15369 43749 62229  
87437 52169 67454 17833 43733 89386 54003 61783 63935 14827  
14180 81753 30242 33590 19074 36107 23985 74980 03352 13969  
44771 81918 81116 58291 44552 75081 35308 56599 00082 08918  
66572 29090 72189 61760 12543 68790 25299 27201 73470 13450  
05653 98917 05134 53859 01652 66160 64980 08283 34770 62052

22421 17691

175 62 00000

### 11616/9322 kHz, 06-10, 0400/0420 UTC

480 153 62

96420 37184 92714 43625 62817 98796 87900 49977 20811 90530  
08418 26930 03099 18028 68289 48680 76063 65137 21415 32944  
44364 10591 13662 45165 90765 20932 16308 09477 49675 11918  
01764 31079 37797 95557 47526 59736 90354 54981 79287 49074  
76323 14336 89137 91358 91096 95878 89810 32460 50038 81475  
90896 96675 31342 20670 07970 76100 41655 52534 40554 64243  
02887 33464  
153 62 00000

### 11616/9322 kHz, 07-10, 0400/0420 UTC

480 480 480 00000 153 62 (0400z)

480 153 62 (0420z)

96420 37184 92714 43625 62817 98796 87900 49977 20811 90530  
08418 26930 03099 18028 68289 48680 76063 65137 21415 32944  
44364 10591 13662 45165 90765 20932 16308 09477 49675 11918  
01764 31079 37797 95557 47526 59736 90354 54981 79287 49074  
76323 14336 89137 91358 91096 95878 89810 32460 50038 81475  
90896 96675 31342 20670 07970 76100 41655 52534 40554 64243  
02887 33464  
153 62 00000

### 11616/9322 kHz, 10-10, 0400/0420 UTC

480 792 51

25271 20414 60550 75150 01866 49533 10991 22182 64202 62244  
05376 76673 91563 84041 91560 54822 24592 91353 92780 53255  
23633 47014 03742 23209 08424 42465 20398 13180 40074 51387  
26859 97212 31262 24450 87868 31022 95590 79852 20275 03182  
72053 69353 41959 73229 85516 24509 21627 14902 29189 12689  
77928  
792 51 00000

### 11616 kHz, 11-10, 0400 UTC

480 (R) into inverted morse till 0412z, then normal morse.

93756 27578 23987 75064 63354 32911

= = 365 365 70 70 00000

Feedback for 40secs, then off

They sent the message in morse instead of voice.

### 9322 kHz, 11-10, 0420 UTC

0416-0423: Feedback

0423z: preamble and restart. The feedback was audible till 0425z

365 365 70 7480

480 365 70

32776 23829 43828 31276 49737 93003 13383 06842 12681 65242  
21856 83832 62709 99254 03748 14855 37636 33011 68434 19265  
71908 02101 85628 79498 22015 85523 08120 23436 22069 02364  
48887 78748 99261 07784 54894 10142 03856 61761 44102 75455  
33422 69031 99802 61545 56008 13647 36284 85888 61908 36609  
81189 74852 98744 30003 39843 54550 69528 46075 34384 15247  
98405 44685 34791 35224 93756 27578 23987 75064 73354 32911  
365 70 00000

### 11616/9322 kHz, 12-10, 0400/0420 UTC

480 179 54

08964 91022 70366 38333 89408 01023 65383 69259 77059 73402  
43142 63433 05194 52270 87736 34072 78653 30556 82443 65699  
35748 53299 94920 83885 15731 48774 01568 20794 05277 54628  
86978 56216 62401 31228 79440 38782 41262 79409 08393 17032  
66268 04796 94801 35037 28957 95896 10388 72268 06045 08157  
66629 32380 22125 71152  
179 54 00000



**11616/9322 kHz, 13-10, 0400/0420 UTC**

480 625 58

81613 98736 95566 69009 73831 66673 02981 12224 58024 15238  
18868 32265 37721 93496 20656 51795 78846 69136 12095 91101  
65528 51242 55867 24902 52869 97930 30516 60729 27641 63534  
85126 06094 12814 65029 90196 16593 76877 72384 08144 42172  
33887 52524 31868 13712 45161 21593 64824 37143 58587 85211  
41040 87259 46454 71399 08504 18434 27760 85870  
625 58 00000

**11616/9322 kHz, 14-10, 0400/0420 UTC**

480 317 56

45378 41722 14982 81850 58551 76198 72114 99773 51941 74427  
81654 49519 61170 74550 09484 11341 16781 50642 07779 30193  
38833 54449 67480 96780 35902 79106 80608 77920 50646 55764  
67139 69665 19160 19056 46120 71609 36265 02359 55699 05830  
43968 48773 51786 28893 85228 48764 39996 10363 90263 40396  
20597 76250 87546 33110 51119 40848  
318 56 00000

**11616/9322 kHz, 17-10, 0400/0420 UTC**

480 296 55

23463 52651 63816 30362 64655 08810 42365 45760 24349 67958  
77360 96199 49858 42040 80353 73593 46522 61633 98638 61457  
42151 91930 63928 22039 41412 98439 89562 26119 93601 79560  
02195 55181 22223 08261 18884 30627 89828 50013 05536 49734  
96547 49186 77628 33036 35744 01089 29163 12816 55239 51842  
00771 17405 97543 93265 22923  
296 55 00000

**11616/9322 kHz, 18-10, 0400/0420 UTC**

480 357 61

40875 46286 56607 26124 96197 48706 95294 40303 09780 24869  
91501 68903 43631 13512 57343 39661 47249 91203 96045 45631  
45554 55758 37777 18107 72231 36710 10741 75805 84420 12512  
45948 42518 19696 39169 39131 50392 81262 19988 18215 71061  
62315 71115 89796 41781 45497 62579 63064 78779 38391 39492  
74595 95001 30983 53128 62473 64429 86036 56544 63153 00182  
98319  
357 61 00000

**11616/9322 kHz, 19-10, 0400/0420 UTC**

480 192 53

95098 32067 88583 25188 81448 69706 74504 84722 35309 52664  
21126 94856 60493 97916 77953 01249 50889 77922 97292 90496  
39855 36288 56335 19330 39923 55098 37547 35310 40045 09840  
47046 87465 52527 72860 75659 50311 26870 51309 32336 09680  
72686 70470 04616 83812 58889 38462 25834 78135 81339 53209  
53755 97171 16131  
192 53 00000

**11616/9322 kHz, 20-10, 0400/0420 UTC**

480 537 61

39761 60307 06097 52611 09353 20689 74316 46243 45167 62936  
25933 28794 93046 41917 38586 79934 83742 48382 25968 42817  
81424 20239 37945 43401 74075 63298 08032 46604 47973 92426  
02926 22699 13446 29053 53770 22407 74072 15959 73855 84117  
56541 35284 92417 21674 43328 40704 59256 66167 75408 39698  
99822 60165 17161 86850 25495 27826 00675 74131 28717 69322  
91639  
537 61 00000

**11616/9322 kHz, 21-10, 0400/0420 UTC**

480 196 54  
79582 57180 80967 12908 32671 32030 57627 85112 22494 46511  
63797 19452 84995 79731 66966 88121 29855 98624 69456 15980  
22664 12559 00209 33260 17187 78430 59017 90473 98675 60940  
36643 52717 24138 77724 59234 15564 70530 84045 30516 09717  
26789 76712 70157 86620 90652 21934 71774 02229 56205 36782  
29000 41083 03077 78953  
196 54 00000

**11616/9322 kHz, 24-10, 0400/0420 UTC**

480 237 51  
33139 11005 06712 06815 88548 95124 01637 47898 00374 56891  
76712 19620 66373 52265 22551 04114 17605 13460 59871 78200  
79257 46868 97847 48852 66739 07241 73796 95402 15459 40341  
35154 23175 67728 11228 49677 58226 65244 60382 54798 37898  
20559 54845 82085 76844 66005 26568 17737 13246 03494 15153  
85036  
237 51 00000

**11616/9322 kHz, 25-10, 0400/0420 UTC**

480 659 70  
45369 61970 09519 30264 75392 65010 42758 53738 14599 47446  
73182 28243 54805 65697 44589 56243 00695 79979 17013 07702  
26090 54392 60927 59872 16642 89140 12101 40306 28639 33323  
29283 84026 18618 51721 21903 40797 23456 44032 39984 93424  
95645 39980 43450 73040 23430 18742 93007 82282 90487 26131  
29809 62335 54860 87970 36064 64745 51798 43090 93795 13968  
50228 44401 83936 71565 17517 01463 92932 38014 72223 62999  
659 70 00000

**11616/9322 kHz, 26-10, 0400/0420 UTC**

480 127 53  
71773 70005 12388 71145 77905 95243 18005 29091 80518 90614  
95739 68938 69501 53682 49006 60754 35197 11229 62087 52784  
27988 35953 77350 26282 76190 54663 29988 37935 41930 46417  
32452 10826 19694 54039 25795 59863 07251 57454 40090 62630  
03613 82278 31116 11570 13750 42091 85503 08464 64711 37849  
11525 87133 62878  
127 53 00000

**11616/9322 kHz, 27-10, 0400/0420 UTC**

480 935 61  
81783 51608 29521 59245 14746 82044 69496 96432 78941 52807  
64732 42121 66943 50672 43612 85759 38664 13547 62446 17766  
65508 70016 96948 55647 04712 29766 88101 42087 33536 73323  
84609 25946 98020 14549 49113 62111 55967 34325 20371 91124  
18855 08868 48577 84541 22365 81106 46018 66944 80205 48571  
20239 50557 00934 66218 81930 43392 72437 87632 44699 16872  
43798  
935 61 00000

**11616/9322 kHz, 28-10, 0400/0420 UTC**

480 617 52  
34644 75113 57240 44734 81272 58169 32940 79532 07749 07962  
43854 18377 95920 81354 87463 89479 65826 48444 38737 65116  
41026 12938 20776 58616 52301 24427 34934 18717 28181 24746  
61348 75969 45712 95594 65822 20883 39931 99622 73984 18490  
95453 32158 98675 89032 68641 25764 31501 09445 13767 74820  
34465 15322  
617 52 00000

**11616/9322 kHz, 31-10, 0400/0420 UTC**

480 352 64

50884 23216 78258 57208 79844 03509 54319 96343 98888 61539  
88519 37477 04725 39135 56370 65070 29220 18364 56868 92344  
04656 66554 31311 24106 21648 44682 99011 04062 09447 27584  
82090 57535 93275 09415 76539 65531 08411 92805 91738 31089  
75690 85146 25629 23858 68135 50435 67700 13827 23364 90128  
67013 30159 81508 51438 67420 06061 53295 86508 97185 95616  
47993 10899 55182 73542  
352 64 00000

## **S06b**

**15674/12203 kHz, 26-10, 1325/1425 UTC**

583 (R) 409 409 2 2

11111 11111 00058 00058

409 409 2 2 0000

## **S11a**

**14769 kHz, 04-10/06-10, 0500 UTC**

385/32 Vnimanije

62284 00824 75006 25196 45625 83251 52857 33025 98930 59928  
40796 06245 86553 46612 58160 45646 49577 74696 05075 90578  
22661 48193 99223 34578 73937 00106 62739 36237 73842 69117  
21404 91245

Vnimanije (message repeated) Konets

**11116 kHz, 10-10/12-10, 0510 UTC**

654/33 Vnimanije

66498 40876 01296 51814 66761 58938 91228 46330 40507 15767  
63302 85777 97200 61594 90746 36850 64771 78058 77663 47040  
69488 18376 82490 79226 43068 09240 77500 89735 70896 38573  
00095 25111 29210

Vnimanije (message repeated) Konets

**10728 kHz, 11-10/13-10, 0445 UTC**

797/31 Vnimanije

01811 65482 06306 48686 54630 71854 10207 14302 30102 28117  
81992 02980 25446 58285 40637 76134 08155 82860 57289 59676  
27882 55966 27408 65107 76389 10270 83938 27384 80425 40579  
51895

Vnimanije (message repeated) Konets

**10213 kHz, 12-10/15-10, 1850 UTC**

288/32 Vnimanije

51396 48438 08054 20500 43247 81595 38672 62979 41255 24018  
25345 98217 30057 46409 91045 73012 83112 34703 57873 14047  
65885 50367 53676 21910 26076 25655 75492 31287 40813 22342  
20687 45085

Vnimanije (message repeated) Konets

**8597 kHz, 17-10/20-10, 0700 UTC**

476/34 Vnimanije

99633 36362 87289 70106 12993 13044 29716 81029 57937 25713  
86551 30887 42624 30055 40030 13690 69747 52412 06248 00773  
33770 83235 34035 80882 42989 27663 10948 45886 44389 07291  
95234 54938 23116 93807

Vnimanije (message repeated) Konets

**6433 kHz, 22-10/23-10, 0830 UTC**

379/37 Vnimanije

38752 20484 41993 23839 87710 37870 82642 53002 28964 19369  
66727 23928 64724 70391 70611 58610 31755 47646 74117 75206  
99423 41420 59560 83932 83561 94700 58220 67744 95316 90683  
18042 35363 70987 38423 71222 15012 86348

Vnimanije (message repeated) Konets

**6480 kHz, 24-10/28-10, 0915 UTC**

484/33 Vnimanije

52817 88320 95149 03484 13099 89036 02777 03077 36439 98522  
06677 23107 21312 56417 44382 17100 40152 03984 49017 88828  
43047 92314 65577 57206 78133 93780 64712 20343 05157 50059  
94960 00139 26911

Vnimanije (message repeated) Konets

**6797 kHz, 25-10/28-10, 1400 UTC****25-10: Hard to hear. Heavily jammed by idiots who think that it is a Russian station**

427/35 Vnimanije

66394 34111 63649 89972 32049 99320 37223 26344 63260 93550  
38899 24145 78679 47863 27697 82939 59475 70883 71176 82780  
17673 77814 04814 24832 70730 61004 74890 91203 17106 84927  
12815 22265 73113 26013 36083

Vnimanije (message repeated) Konets

**V07****14725 kHz, 02-10, 0120 UTC**

974 974 974 1 208 84 208 84

44031 57428 32884 20025 03837 65991 73931 98404 78238 57746  
44635 96013 15592 01162 59858 79409 39219 17999 77179 16747  
45669 15440 24793 99494 27029 70974 96328 58430 12375 08160  
89308 47630 04637 38502 35717 63385 14237 61947 64791 02535  
35201 27548 35842 49898 84961 85194 40007 44724 78885 38797  
26709 29820 13725 31167 96585 52527 29954 54233 61805 95403  
59049 64434 99263 70899 66703 93465 39862 79570 32968 87053  
20486 88995 30980 98394 91978 76073 43917 98400 99179 74311  
83296 15859 31772 7770? 000 000

**14725 kHz, 09-10, 0120 UTC**

974 974 974 1 362 66 362 66

73174 74923 86911 41338 00865 86436 27282 83766 49185 12912  
81775 53943 99910 70493 79804 25262 16662 22426 53590 06946  
76933 40205 67133 35280 22528 63334 64274 99230 64443 67849  
54550 95875 21800 28287 38799 29838 86320 11655 50172 00316  
63574 86974 31203 84201 70022 67728 88472 66297 16858 86866  
50086 37017 85382 07732 43815 99000 07997 83043 46109 97233  
90272 14796 03312 22813 71667 09250 000 000

**15925 kHz, 16-10, 0100 UTC**

974 974 974 1 5923 46 5923 46

14628 49417 11586 94532 92059 11143 16603 50349 99300 72570  
77696 90388 91903 11807 56350 19839 68188 54353 83188 27937  
84592 07547 38525 57512 82550 64056 68019 11993 17111 11589  
17221 40898 55320 98890 48755 18777 98888 98895 02580 58367  
90741 90448 28723 88031 59498 08495 000 000

**15925 kHz, 23-10, 0100 UTC**

974 974 974 1 546 58 546 58  
 24842 72651 95147 62804 29598 51469 07875 12769 51917 38907  
 35323 32368 17071 45220 73589 91707 88025 11072 00850 87557  
 48705 00966 66736 73205 22037 81956 10456 96515 42190 33315  
 63044 40979 51349 16047 48784 48967 26881 83931 76313 58487  
 89621 23529 41470 88993 72886 66048 18248 10527 88193 49323  
 89584 35207 85897 77182 46129 33095 40143 03727 000 000

**15925/17425 kHz, 30-10, 0100/0120 UTC**

974 974 974 1 464 122 464 122  
 40654 70830 93893 64730 70847 97206 70820 99187 49139 06714  
 69614 43558 10141 89305 47723 30863 08299 50556 84716 11335  
 01455 75827 34732 61957 31439 96313 45788 30238 82515 54080  
 34894 61464 75887 17051 27893 66234 24121 35757 80898 35502  
 39061 94895 88663 01367 42032 67667 04378 26617 50224 53626  
 25714 05478 90492 27057 91123 23736 24824 20143 25153 55577  
 27024 87139 68672 15571 81752 79890 42323 40840 29336 63950  
 37582 97444 98912 06433 71595 46508 35097 66153 91373 61243  
 42719 91022 53589 47343 89214 90388 27233 85671 92521 78336  
 78484 21563 23664 50324 17727 25736 64806 23081 69474 24997  
 68237 84054 78663 46933 38591 03278 46152 30922 51053 80855  
 02907 19273 72702 28557 94105 23048 01312 77639 29003 76506  
 30899 18871 000 000

Training session
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E07 and V07 voice test transmissions on October 13th used full AM.

**9283 kHz, 13-10, 1125 UTC, AM**

687 687 687 1 8211 18 8211 18  
 16451 94160 63142 25424 61565 29692 86908 55008 02098 00387  
 64311 90798 97241 04166 74433 41674 25815 32888  
 000 000



<b>V13 - New Star Broadcasting Station (星廣播電台 Xīngxīng guǎngbò diàntái)</b>
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**18040 kHz, 02-10, 0100 UTC. New Star Broadcasting, Station No. 1**

7127, 20 groups  
 0313 8609 2025 2728 6715 3186 1617 3722 4256 0820  
 4747 0705 8407 0597 2932 9171 3678 7745 3278 6976

7130, 28 groups  
 7179 3066 1626 3294 4659 2466 8255 2790 4817 1491  
 8742 2872 7726 5763 4924 8878 8271 0202 1410 1434  
 5007 0216 5928 0096 7744 6505 1704 7080

7153, 25 groups  
 2060 6810 5927 5553 6439 9982 2437 6760 2956 0858  
 7722 4952 8815 5099 5732 4530 6847 3386 0076 7052  
 9888 7739 7494 1976 1436

7300, 29 groups  
 7841 5852 8646 6893 2878 0936 6288 2799 8770 1612  
 2731 5436 9606 1743 1570 2680 1774 5767 4981 2851  
 1559 6097 7396 7463 0803 0763 0597 1065 7954



7436, 28 groups  
3815 6119 4367 7407 4938 3412 8187 8169 1413 0934  
0671 0602 1938 6728 2274 5702 2544 3658 8370 3145  
3148 6563 6921 9029 3186 4786 2964 7666

7658, 27 groups  
5519 7235 4116 5420 5957 8804 6688 1123 4716 4036  
1147 0538 5485 6733 0807 9216 8386 6813 9269 2772  
7008 7344 4999 6637 1582 2299 9464

For more logs see our Logs Section

## V28

3043.0 kHz, 02-10, 1200 UTC  
3530.5 kHz, 02-10, 1200 UTC  
5226.0 kHz, 02-10, 1200 UTC  
4510.0 kHz, 02-10, 2200 UTC  
5050.0 kHz, 02-10, 2200 UTC  
4511.6 kHz, 03-10, 2200 UTC. Female operator  
5050.0 kHz, 02-10, 2205 UTC. Male operator  
3031.5 kHz, 04-10, 1207 UTC  
3531.5 kHz, 04-10, 1207 UTC  
5236.5 kHz, 04-10, 1207 UTC

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

5360 kHz, 06-10, 1420 UTC, LSB  
5241 kHz, 12-10, 1914 UTC, USB  
7207 kHz, 19-10, 1657 UTC, USB  
7207 kHz, 21-10, 1409 UTC, USB  
5241 kHz, 31-10, 2002 UTC, USB

## MORSE STATIONS

### M01

#### 6260 kHz, 01-10, 1500 UTC

463 272 272 30 30 = =  
93827 01921 12871 02191 28391 03819 13198 19287 10912 91012  
02918 17281 04837 79856 35267 01231 43561 98756 11473 01213  
02817 57498 03846 55839 29167 01812 43981 01837 18231 98194  
= = 272 272 30 30 000

#### 6510 kHz, 02-10, 0700 UTC

463 131 131 30 30 = =  
81926 01827 02817 75978 06958 47584 76411 95849 23187 43219  
47583 12312 95869 37491 58309 19376 91836 92118 85931 46381  
94827 91736 19213 91840 01317 01746 38272 92836 91736 19384  
= = 131 131 30 30 000

#### 5475 kHz, 04-10, 1800 UTC

463 404 404 30 30 = =  
53607 10290 30298 02938 00283 19211 46378 73849 89475 09872  
30348 20398 40593 30498 98364 45463 47589 99324 03948 20398  
64758 66634 74859 90290 89475 30498 20398 10298 30445 43564  
= = 404 404 30 30 000

**5475 kHz, 06-10, 1800 UTC**

463 230 923 30 30 = =  
 98 7 98098798 57647 65650 13124 65764 87687 45653 46090 13233 43545  
 98909 87687 45345 24369 10989 24344 54635 24310 98909 65465  
 98798 65764 35425 34241 65476 87687 49800 24311 35343 65465  
 = = 923 923 30 30 000

**5020 kHz, 06-10, 2000 UTC**

463 976 976 30 30 = =  
 98798 54543 65654 76450 60998 54332 17619 09856 37366 48590  
 13243 40988 46534 13243 75676 35498 57876 98987 56453 35422  
 79866 46534 17690 20355 47664 79787 26509 19877 59876 34321  
 = = 976 976 30 30 000

**6260 kHz, 08-10, 1500 UTC**

**They had problems with this group 45367. I think the operator got confused**

463 144 144 30 30 = =  
 63289 90389 07329 10256 64738 89347 90384 64738 90234 67348  
 90298 65478 74653 90983 53478 12390 63548 89236 90236 78394  
 01265 82937 **45367** 00263 84286 **45367** 684286 **45367** 90923 **45367**  
 67348  
 = = 144 144 30 30 000

**6510 kHz, 09-10, 0700 UTC**

463 720 720 30 30 = =  
 73546 20398 36457 10298 34267 24378 09823 09837 34258 67489  
 74859 90937 46788 94578 24356 22039 30298 15267 03847 89364  
 90374 46578 20387 45367 89476 01928 36478 67489 00127 89364  
 720 720 30 30 000

**5475 kHz, 11-10, 1800 UTC. Errors at the end**

463 805 805 30 30 = =  
 10928 37621 74658 39489 05918 47632 64738 37265 91857 49387  
 09489 37461 84392 03987 37264 85739 20198 47634 83891 03901  
 98376 26354 15436 37285 95900 10938 01938 74362 61543153 1048 194  
 = = 805 805 30 30 000

**5020 kHz, 11-10, 2000 UTC**

463 717 717 30 30 = =  
 73625 61736 84930 94837 63298 50968 74909 48376 38747 63174  
 01938 74920 95874 36271 84748 32615 74652 74859 50983 73276  
 01938 38476 36475 85748 93827 10919 38758 47252 53423 74859  
 = = 717 717 30 30 000

**5475 kHz, 13-10, 1800 UTC. Errors at the end**

463 125 125 30 30 = =  
 19471 76847 17362 91746 91721 91745 12876 19165 01764 01363  
 01836 18756 16574 18123 37891 45371 01757 01758 12981 01768  
 01756 19474 01936 12876 49324932 148174 103213 9969965 31288 38112 01769  
 = = 125 125 30 30 000

**5020 kHz, 13-10, 2000 UTC**

463 654 654 30 30 = =  
 93812 01928 21098 18176 12911 93876 89732 18351 01947 45321  
 95843 98705 11098 32981 32891 50387 34211 78969 03847 37185  
 77849 34917 93817 38190 38289 16580 32876 43091 76175 91746  
 = = 654 654 30 30 000

**6510 kHz, 16-10, 0701 UTC**

463 351 351 30 30  
 19234 74632 85746 94837 64758 02938 27153 63514 64563 62535  
 03926 65721 62514 53241 63526 74637 48736 52143 25436 74857  
 19367 37625 64376 38576 96291 01928 74632 64532 61541 64518  
 351 351 30 30 000

**5475 kHz, 18-10, 1800 UTC. Different repeats in red**

463 871 871 30 30 = =  
 34728 90347 64789 01928 45367 89234 90236 78340 65428 89347  
 89346 78237 90346 78234 09835 30947 64735 **74735** 78236 893743 56478 **5678**  
 89476 35467 78239 90235 54637 78346 10287 53647 89236 01823  
 = = 871 861 30 30 000

**5020 kHz, 18-10, 2000 UTC. Errors in red**

463 102 102 30 30 = =  
 64739 20198 46389 09231 45367 89201 42378 88309 35467 89374  
 73829 **019289** 45367 89374 90283 88340 26378 89201 67390 64534  
 63748 34256 01625 89345 89475 **847** 08298 **18 02** 74658 6 83645 **8937497**  
 = = 102 102 30 30 000

**5475 kHz, 20-10, 1800 UTC**

463 932 932 30 30 = =  
 92817 63728 49387 10987 37265 83920 94837 17638 32901 93829  
 71628 30298 28749 10938 93289 10949 38178 03902 81765 84920  
 19830 39287 28178 04985 38727 38227 40392 10928 37261 84709  
 = = 932 932 30 30 000

**5020 kHz, 20-10, 2000 UTC**

463 655 655 30 30 = =  
 09187 21876 28739 06987 49109 38762 64532 74653 72874 85940  
 91876 37625 74639 07983 72165 73652 84920 94871 74635 21098  
 94827 10987 48302 85761 61548 95840 94837 91635 42154 72615  
 = = 655 655 30 30 000

**6260 kHz, 22-10, 1500 UTC**

463 715 715 30 30  
 85671 90451 65821 54713 80452 74814 57482 45371 90451 64371  
 74915 78549 45612 57840 84913 45582 75982 54671 10461 75693  
 90141 65781 46721 65761 56901 57813 59910 46912 57822 90423  
 715 715 30 30 000

**6510 kHz, 23-10, 0700 UTC. Errors and different repeats in red**

463 239 239 30 30 = =  
 71921 46719 47823 45812 90452 84946 **8946** 90153 47812 90432 07812  
 04781 37813 **37812** 90452 **952** 78903 **793 86512 37857 893 830 8012812 64864812** 46582  
 07841 37482 09432 57482 04817 94726 47592 47182 90471 09342  
 = = 239 239 30 30 000

**5475 kHz, 25-10, 1800 UTC**

463 256 256 30 30  
 83461 45671 84912 06748 45618 94514 95401 47814 69126 53810  
 47162 63692 67191 64671 38789 04637 48192 49013 38012 48901  
 64712 56470 47681 98136 45582 57192 39012 45367 36101 45189  
 256 256 30 30 000

**5020 kHz, 25-10, 2000 UTC**

463 512 512 30 30  
 58931 59032 56432 86497 50124 58492 05693 56310 68743 90421  
 53815 37819 36718 39015 84290 74364 56473 26749 05731 36489  
 74532 15732 98430 76430 64384 38645 76423 87678 13460 45236  
 512 512 30 30 000

**5475 kHz, 27-10, 1800 UTC**

463 765 765 30 30 = =  
 48738 89695 34901 34091 48501 01732 94823 57490 31917 39176  
 01937 19827 38198 17291 28193 03847 45210 59684 30917 39187  
 01986 47658 18376 19376 18375 59784 22917 98609 04974 95843  
 = = 765 765 30 30 000

**5020 kHz, 27-10, 2000 UTC. Different repeat in red**

463 271 271 30 30 = =  
 85934 01831 02817 05937 32981 48301 50386 18374 01857 57498  
 98371 17154 91731 69128 38194 01746 38274 91837 91846 19174  
 01847 28174 01847 91748 04829 18375 19474 01958 **01957** 79843 11987  
 = = 271 271 30 30 000

**6260 kHz, 29-10, 1500 UTC**

463 172 172 30 30 = =  
 74636 91873 26354 96176 19318 01736 91746 33820 19367 91736  
 98176 38391 29871 01987 18736 19363 18736 19826 19836 19365  
 91876 17463 81746 16538 01976 16352 18725 17365 01965 17431  
 = = 172 172 30 30 000

**6510 kHz, 30-10, 0700 UTC**

463 647 647 30 30 = =  
 93827 93818 01983 01837 45378 12109 48390 37231 09187 39219  
 01837 45288 12487 06321 48564 16743 87431 01856 77134 12769  
 12769 18745 18745 01746 57977 13298 46934 10937 48398 12987  
 = = 647 647 30 30 000

**M12**

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

**11435/10598/9327 kHz, 01-10, 1800/1820/1840 UTC**

938 938 938 1 5888 77 5888 77  
 69185 55388 57249 76332 65748 43529 58403 44290 63090 69863  
 21011 12790 19082 73205 24336 24742 54997 38392 27298 62262  
 27700 78658 74274 70119 89283 52459 91019 87589 51715 75540  
 61074 24975 53058 53076 01213 72136 07043 80376 47134 20229  
 34780 59936 03615 72620 40202 29871 69932 59238 81905 01086  
 94915 31668 50220 14289 80141 20141 19002 20789 33552 89704  
 68188 825E2 29146 69198 06495 45613 33104 27123 04757 41086  
 88723 94223 35369 88104 97867 58821 24854 000 000

**11435/10598/9327 kHz, 08-10, 1800/1820/1840 UTC**

938 938 938 1 7080 80 7080 80  
 75315 64449 01106 90198 22486 91164 71995 37517 49305 66419  
 74572 51456 52891 82242 24924 39339 27077 35170 22051 11396  
 44987 24229 67153 82027 20449 03313 25464 88104 83874 50523  
 90013 40487 91197 02405 00088 91794 98073 14250 83334 71803  
 25472 99234 22437 01365 50207 77731 72762 33244 22987 58954  
 57247 13405 11826 05814 78813 31331 87295 00280 98192 04726  
 90707 69014 09197 49866 93905 87992 94162 80129 19049 97218  
 15067 60658 99195 68579 37665 02505 14701 33585 73639 18183  
 000 000

**11435/10598/9327 kHz, 29-10, 1800/1820/1840 UTC**

938 938 938 1 9500 77 9500 77  
14424 02277 74833 11606 51009 25685 57547 33096 72692 62484  
12902 04321 56312 99460 80748 25073 00744 38416 99770 19573  
77886 15519 53591 48978 14291 82037 39345 21982 72321 54856  
39881 25977 95236 50138 28040 80075 44464 31433 72203 20955  
52473 49373 24113 40593 35701 06017 71520 19630 48790 21168  
25021 05363 78295 19902 53198 57798 85325 20309 55002 56749  
32033 83036 27374 25933 06816 93173 90394 64987 80937 82259  
06309 73964 51397 23437 75064 96548 70673 000 000

**5794/6794/8094 kHz, 2100/2120/2140 UTC****5794/6794/8094 kHz, 01-10, 2100/2120/2140 UTC**

770 770 770 1 9537 130 9537 130  
74681 19916 42939 88165 20932 00202 74305 02858 63116 78059  
73301 06587 21200 89031 81168 14065 43487 45868 78109 36100  
63138 13695 82583 34097 17347 61842 10542 89332 90196 14147  
44188 42011 40311 37911 94643 49249 49763 37629 15101 95110  
76027 21366 26548 27155 13155 62918 12610 27127 48166 71488  
07646 69056 02967 58340 05902 00925 81146 45976 91494 48729  
16557 85381 14608 89757 72576 18497 89805 67837 76559 12904  
18703 19096 08347 94853 05167 47971 61243 91949 95851 33277  
67270 83990 21814 70205 54680 38023 81024 21875 10677 63011  
47873 21406 88382 71137 52578 67603 77036 60274 00405 43240  
01656 81008 63371 79877 70612 35100 52410 95971 62362 44196  
42234 92752 82501 87482 84408 02726 85174 38636 50290 86282  
43025 03835 93135 16337 55025 36142 31313 15850 93750 21526  
000 000

**5794/6794/8094 kHz, 07-10/08-10/14-10/15-10, 2100/2120/2140 UTC**

770 770 770 1 5463 142 5463 142  
24772 90159 68033 55793 20252 46079 31411 90420 16129 16750  
53555 39655 70151 63803 20752 39898 09218 37687 45037 23492  
31965 77314 57051 51913 89087 60911 07107 83404 28516 18885  
19264 08499 24056 01999 03645 82275 66741 92914 89954 21971  
03709 96565 16087 87358 85167 89850 07092 54339 54187 96002  
11140 49197 53326 05113 45725 89318 80808 08644 35255 84244  
80402 96291 23648 35329 41343 35275 89971 11796 07176 49789  
32215 10780 51043 87756 72573 57687 56874 12206 47739 76786  
85694 53294 76595 27552 54278 75710 31681 46953 31467 14914  
07040 65509 10344 28889 76189 29104 06175 74897 99551 52940  
02563 79897 86723 43617 75673 26508 72717 80371 36155 55763  
71401 80002 46613 43239 67419 35015 34075 13013 78113 50708  
51138 94713 36607 17888 50957 64891 65783 74863 45165 92443  
30832 25681 26376 21540 28468 47468 36881 53334 31989 81495  
66375 96448 000 000

**5794/6794/8094 kHz, 21-10/22-10/28-10/29-10, 2100/2120/2140 UTC**

770 770 770 1 4517 184 4517 184  
89846 05043 52637 61693 40034 15406 31203 09054 06477 96086  
92063 17772 39121 87650 35430 20916 95488 86674 24211 16603  
11749 36921 37272 29057 40181 78762 70279 38358 44792 99843  
63055 78061 15798 41198 92671 31396 68867 63660 97078 98796  
59014 53065 81480 20602 33899 69916 19186 26026 85489 58651  
43693 71468 64455 70096 29821 35994 21990 28771 17819 76144  
16522 95002 35141 93120 24904 77529 79734 89306 20328 08741  
98147 12612 45909 14545 20184 16096 23515 57642 28902 17740  
85651 32306 23161 04733 54251 18245 44863 78598 48896 06763  
43815 11340 17963 18035 86470 16583 74037 97781 42730 86189  
55006 35939 60215 09065 28127 35986 27100 89106 09917 53486  
88098 13973 80028 11536 81370 60728 50463 69295 53720 24397  
14856 50544 83326 61952 85671 79019 34205 78714 87512 92356



01621 07405 12336 03757 44345 47480 50770 94742 88818 00684  
41285 87905 86614 70507 78799 38085 41181 85709 69041 53410  
45524 68096 45235 25095 48363 93321 26356 63365 10509 75089  
03045 36861 41832 88613 11685 61737 47776 11877 71863 12764  
81927 45470 28159 12019 33322 20933 85017 92664 96393 18966  
82925 62653 67146 83629 000 000

12205/13559/14728 kHz, 1230/1250/1310 UTC
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**12205/13559/14728 kHz, 03-10, 1230/1250/1310 UTC**

973 973 973 1 7705 60 7705 60  
80200 76537 07861 77325 55321 21209 85691 82335 63705 93952  
81565 26997 64549 51952 43069 18271 91670 69938 13459 28310  
83438 40873 44178 57732 61561 19477 35173 56396 50204 71663  
41084 78816 45090 82443 84866 58524 02843 25325 68122 99395  
46225 92318 82576 27657 29186 02547 54569 49583 91147 42459  
22723 54365 67943 36972 22818 07712 78944 26334 95937 22703  
000 000

**12205/13559/14728 kHz, 10-10, 1230/1250/1310 UTC**

973 973 973 1 6055 60 6055 60  
74026 89571 90726 48957 53493 66155 90564 08153 18786 32148  
73577 30090 28922 84186 57425 66539 44677 64780 97240 38468  
80382 09311 75796 81245 36286 85912 81840 31747 61673 40282  
15004 18413 59293 67282 74779 20452 82081 21709 46602 68647  
77355 78212 13985 29480 49297 07752 34085 08423 48577 16759  
74832 74484 91799 63124 44146 63516 49154 95658 64683 21680  
000 000

**12205/13559/14728 kHz, 17-10, 1230/1250/1310 UTC**

973 973 973 1 8693 55 8693 55  
68718 20445 25660 31046 03255 88527 60307 34764 37703 59217  
44519 25159 38178 22286 84403 26220 85452 24145 83260 46011  
37448 09587 63950 73646 80838 51898 65017 11971 29369 43752  
10552 29152 81501 02879 63833 97143 24266 50585 19442 03258  
25966 71213 47720 49835 96927 69402 64551 64509 48350 42148  
14908 65799 77187 92113 93830 000 000

**12205/13559/14728 kHz, 24-10, 1230/1250/1310 UTC**

973 973 973 1 7766 58 7766 58  
90153 06712 05500 96640 59273 26121 69621 19940 40643 74591  
52150 98420 45505 18389 06245 43735 80116 38111 24746 94682  
91601 80605 61062 33431 36166 58785 06915 64007 31165 13112  
50268 29945 92845 92915 93468 15514 17659 94222 64547 02605  
94053 26587 74803 26345 59789 47998 98464 77027 38355 26505  
38149 97268 46607 89156 46172 75127 82944 07964 000 000

**12205/13559/14728 kHz, 31-10, 1230/1250/1310 UTC**

973 973 973 1 6016 60 6016 60  
73000 26423 11508 02008 96935 71258 97677 52778 04151 76434  
44203 13642 14944 34732 85328 54327 16913 45646 15246 54717  
38105 91918 60461 45809 78361 22952 07154 25854 35450 01522  
06729 45493 62497 99828 96256 23760 16631 40859 70927 01571  
12342 43167 17881 06073 80321 86085 08959 80207 09188 91106  
40742 19124 73216 28393 74903 98431 65011 00527 81969 76016  
000 000

20168/19468/16268 kHz, 1400/1420/1440 UTC

**20168/19468/16268 kHz, 03-10/06-10, 1400/1420/1440 UTC**

142 142 142 1 2843 102 2843 102  
16842 42770 88219 90996 29198 74588 23356 21498 49830 51792  
89947 15613 89121 63665 21270 98828 48834 66705 99978 88295  
37055 98874 57166 84159 87140 37906 40303 17355 12445 65553  
88587 38924 29046 01382 22621 92487 79591 59011 42396 87105  
51363 46523 64100 80948 39723 84868 54813 53860 10529 50330  
07149 13674 31918 46192 43217 92052 70881 85597 51814 15590  
72067 60534 50303 74452 93420 15127 90904 03829 57144 99409  
53312 67434 41416 29458 26597 40121 09202 03414 41760 53337  
85088 07949 54356 81228 46543 52734 90571 81900 49789 82207  
65943 77833 88723 82237 56255 52535 48991 50964 21780 82363  
73512 43664 000 000

**20168/19468/16268 kHz, 17-10/20-10, 1400/1420/1440 UTC**

142 142 142 1 9842 146 9842 146  
23129 67750 31926 33593 95435 38388 88554 45773 97534 14607  
86164 15234 53749 17095 61204 90643 17193 12793 44905 03165  
86890 98184 10189 68344 95258 81622 36720 84264 62390 08271  
76018 75748 57253 95029 18922 35605 75037 45136 59745 23083  
77569 19031 16843 21643 75738 17233 43103 19324 30508 43262  
09199 19910 14142 14170 92459 15455 92227 68204 46568 76541  
62407 35828 54206 67354 87547 38671 58469 01541 73997 27600  
61839 28871 08349 39774 54102 47309 89910 18713 02839 53138  
40403 63999 86179 80137 46186 59140 04478 10322 28332 55102  
34512 83083 27776 07436 86572 51927 48908 92464 01681 98021  
93505 82543 43206 32252 47144 78913 58262 72163 51534 28681  
00658 57425 44315 65636 72127 30676 16746 78232 74556 07595  
75845 20756 96969 43066 16013 94588 27131 98777 82693 19040  
68618 18809 57598 98625 20754 55515 33747 27352 81572 44803  
33973 97394 08317 16408 86349 63172 000 000

**20168/19468/16268 kHz, 31-10, 1400/1420/1440 UTC**

142 142 142 1 5 755 96 5755 96  
64136 63207 91133 59286 67257 48777 07056 30695 75769 53349  
00624 50764 62343 37372 31726 92218 30701 59184 13377 82421  
24621 53509 22989 59589 77524 08720 41487 99670 13890 74138  
76325 41860 11840 16402 54119 28833 22323 30000 48868 25445  
21217 79382 01248 74160 53816 87242 16160 48330 72398 34350  
90135 34915 20845 48664 84212 41818 43546 65000 09227 75596  
98726 62709 48769 72035 82135 55369 77150 43896 05840 74838  
81025 01747 83862 45164 04250 45393 00883 94914 37694 05690  
15615 23640 19535 03094 83857 20365 01237 86293 09788 94270  
35098 52589 70424 84106 89234 73109 000 000

17441/18641/19241 kHz, 0800/0820/0840 UTC

**17441/18641/19241 kHz, 05-10/09-10, 0800/0820/0840 UTC**

462 462 462 1 950 66 950 66  
76134 26304 91760 67577 06880 69059 05145 50790 35249 17057  
25316 84767 25226 59827 16531 15756 51696 34414 65083 63836  
30196 19489 43839 31905 00415 84347 82508 11677 35406 78730  
28688 37065 75612 11641 47559 11350 21635 56240 19008 48622  
62042 46349 05340 09459 80642 90458 90420 68697 78430 71708  
58801 63189 90399 55628 52782 14464 39571 04723 94526 03858  
18697 25852 59480 28305 44021 63374 000 000

**17441/18641/19241 kHz, 19-10/23-10, 0800/0820/0840 UTC**

462 462 462 1 222 72 222 72

37497 83361 29048 49542 16363 90999 62316 93091 89075 35181  
23275 76703 49446 29180 11669 59358 76657 49800 11869 04727  
76404 44707 32222 51925 46344 61276 82776 95702 06125 87448  
45278 26070 16229 63125 27632 13478 47262 88235 21996 21419  
20529 75162 86890 24579 19027 24030 33429 58431 28774 72519  
49224 46182 34125 38797 80313 75767 56519 06399 42385 15550  
79918 66063 28601 29733 07668 31915 10850 04791 03039 33618  
85163 89521 000 000

**11135/10235/9235 kHz, 1900/1920/1940 UTC****11135/10235/9235 kHz, 05-10/07-10, 1900/1920/1940 UTC**

122 122 122 1 7407 124 7407 124

52262 60796 14588 10236 46124 77140 33003 40737 57344 49648  
90498 42532 51998 58219 69422 54139 03853 57471 77673 58259  
66336 27746 73386 78327 16575 83398 73114 54607 69558 82066  
96488 14813 82753 69497 16825 90255 02245 41624 75200 05110  
99287 97797 13852 43010 67082 42624 93211 25540 24400 88422  
29780 71915 37644 07654 98555 64533 64295 89944 83206 01119  
71983 76713 00145 72064 32891 82011 30106 57864 00530 27643  
42738 27467 49961 02674 35781 87069 05113 46418 51058 06395  
39386 88911 83029 48480 29549 06370 10632 23617 89212 81924  
25535 47632 54265 78036 95302 49016 76080 01819 46210 07147  
21001 14066 11275 73093 43035 54451 57219 31183 29173 51125  
06133 42690 55502 30132 82932 19686 37796 30044 60071 89911  
03075 26810 21810 79213 000 000

**11135/10235/9235 kHz, 19-10/21-10, 1900/1920/1940 UTC**

122 122 122 1 948 144 948 144

34020 29586 07862 45452 21915 28000 38317 30312 11033 60969  
58868 10181 22147 19918 87119 90395 89186 04249 42562 80851  
55543 60778 34015 01700 58248 84521 98716 70998 49127 10613  
18367 08990 70719 45793 75699 34391 38004 93413 21267 68181  
58696 69678 32076 33174 85284 75445 25388 28004 92011 81385  
41834 21037 75269 60950 86911 36417 22777 17469 87297 88512  
68479 53209 50204 79665 89013 05933 76546 87795 79645 36531  
39561 58079 89744 10302 41628 28666 11492 76533 68402 39973  
64241 21668 51094 79911 11808 54967 30821 73001 00164 87252  
28602 17887 34912 68068 23585 07763 75650 26946 99634 97293  
58262 64041 12555 96544 86058 37492 88783 91547 34089 26030  
86113 53988 39165 36506 04521 87926 58829 56982 39370 42360  
01161 11999 25848 86209 11796 52731 53206 18810 24540 64037  
45435 25179 61467 18948 55052 86154 16233 64492 54875 14649  
91506 92356 92160 74271 000 000

**13386/12189/11491 kHz, 1110/1130/1150 UTC****13386/12189/11491 kHz, 06-10, 1110/1130/1150 UTC**

725 725 725 1 3483 94 3483 94

91790 99065 16787 01457 91324 06656 54623 23807 96943 41305  
21225 88550 33499 69555 62387 22889 93503 42364 37303 61947  
56758 08353 69751 97465 45801 88341 02404 25913 68838 40783  
87292 97740 14942 35618 48239 67416 71402 30584 58511 19415  
84509 04996 12572 99818 20762 52117 73357 25412 90513 23791  
20232 86873 73719 89999 44689 24630 24295 60039 56775 63325  
33897 73430 30571 20862 79603 87933 80386 86228 26625 51052  
54797 47868 04101 36602 68670 12448 76308 43411 18637 85602  
84936 68996 23371 30027 92581 82202 56329 26041 53449 74813  
74422 59117 45970 69079 000 000

**13386/12189/11491 kHz, 13-10, 1110/1130/1150 UTC**

725 725 725 1 7617 94 7617 94  
56565 42769 37296 99181 18247 22604 81759 59945 07922 13526  
55772 64082 15621 19701 09731 48916 96449 23023 08113 50710  
15506 58468 74823 51228 79571 18696 31814 30384 49445 69878  
37523 29894 62404 65779 47484 84115 29812 55682 32437 14498  
01174 63684 78642 64378 09945 12002 30234 08075 28834 55010  
71607 02622 32650 76391 83625 11600 62905 24154 81842 02227  
82002 34445 86616 03508 35853 75195 99332 42971 70795 14681  
76243 33565 73496 92392 84880 38801 28277 27998 07223 45725  
91763 38330 54553 80614 23301 01656 70642 01633 33583 51794  
48672 57642 12773 58022 000 000

**13386/12189/11491 kHz, 20-10, 1110/1130/1150 UTC**

725 725 725 1 4888 90 4888 90  
25724 42549 89980 83120 56798 29861 07364 59330 85252 07565  
07385 57832 53828 16345 80711 04168 54200 33509 70915 46971  
43016 00264 15157 11725 70257 70566 35453 13040 31867 19444  
39723 31548 04591 51526 71311 52675 85123 48220 97650 86841  
03186 15507 14880 43256 78326 05803 93155 53262 82248 58746  
43384 19926 67567 72334 00537 56830 17348 50313 54006 07561  
35406 38908 41614 84172 78298 50566 81127 62374 70228 47857  
66743 43510 32230 39448 51334 76004 81090 13782 27271 57915  
53461 52496 82462 21338 92515 89629 96859 46375 99724 02558  
000 000

**13386/12189/11491 kHz, 27-10, 1110/1130/1150 UTC**

725 725 725 1 3896 91 3896 91  
06051 09808 69520 77751 63828 54190 01735 24523 39297 02540  
05114 67766 58907 52267 22418 70958 39789 40599 47967 50212  
70867 80936 58272 60013 46272 52842 78730 30000 30213 64130  
49180 17032 52500 70868 59909 43146 01438 77969 69684 15205  
56555 49082 85671 48122 01272 63158 81091 45983 86131 03970  
23085 43838 18594 65766 99384 39951 23355 50236 17591 91284  
56301 39132 43216 74939 52395 13464 17015 50241 59812 75323  
52898 33359 05480 63060 71514 63167 69129 98132 26741 94915  
44716 37751 91773 13190 72648 14004 23013 11065 21522 19019  
62007 000 000

<b>10318/9218/8118 kHz, 2000/2020/2040 UTC</b>
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**10318/9218/8118 kHz, 10-10/13-10, 2000/2020/2040 UTC**

178 178 178 1 6470 88 6470 88  
12541 48931 19327 17669 49324 71580 72236 43304 06970 01792  
86141 71257 08780 59734 77883 83235 83978 79214 65104 26287  
95428 10511 24892 26316 24252 96810 46359 11857 86830 41381  
90136 89899 23269 91013 74949 19406 56394 72444 82775 72927  
46774 36977 47558 03049 24068 09037 80763 74373 97427 25161  
25819 98234 93586 03676 22165 81662 94774 67463 94875 38722  
49559 32821 83943 48014 48653 09981 78940 88192 70816 18222  
13404 10136 31035 29239 30556 91848 02200 56308 48451 41512  
70324 83456 51554 79527 51678 59185 19742 65400 000 000

**10318/9218/8118 kHz, 24-10/27-10, 2000/2020/2040 UTC**

178 178 178 1 932 97 932 97  
93485 16274 44674 92177 04062 85516 92909 38579 14236 86739  
28519 76844 09676 09645 61300 02524 87900 83541 67558 53813  
59782 13167 16728 19307 13549 69860 34754 81908 10892 56806  
62655 03194 70673 00730 38996 02315 17496 95709 94281 52381  
76784 76249 75031 58359 98508 81004 98861 86156 79491 40946  
05059 36356 64974 79759 11221 65448 84519 33749 39913 58308  
61558 56205 94175 74552 88838 65123 45926 84189 25107 94766  
17373 10988 38689 61170 80306 57380 56820 81545 83196 56596  
80037 92548 03983 57884 08658 89156 35736 23369 73847 19023  
18126 40161 32832 56430 39641 78548 55647 000 000

8164/6964/5764 kHz, 2110/2130/2150 UTC

**8164/6964/5764 kHz, 10-10/13-10, 2110/2130/2150 UTC**

197 197 197 1 954 177 954 177  
53645 71298 01458 85039 97993 34571 64353 32924 87246 69354  
43521 52830 81332 86300 83388 16742 18163 37632 64063 24983  
74027 83056 08651 14747 83789 90798 44977 21353 66895 58559  
08371 68401 35615 86809 70039 34246 71891 44079 74032 41344  
14635 83311 25854 69516 57242 22920 49770 96815 83170 83017  
29889 83557 29797 41008 16529 23224 26279 73332 93917 78334  
08644 69162 34715 05837 70448 32940 97671 52172 15763 62641  
98799 69194 51131 97112 78193 66225 70831 98240 26207 56160  
93524 27158 70688 30618 63023 15646 96362 95103 46200 09125  
52683 22614 87616 79842 01381 59417 96929 38780 52733 53804  
04601 99457 01547 72741 92886 88058 18108 08334 01187 91844  
88456 51878 84367 69977 80510 95202 50579 30264 28718 14497  
11481 62489 54282 83371 26312 27339 37417 92695 13788 87163  
68740 65544 15211 96943 29723 08717 94395 98911 80092 61196  
84785 65096 47298 18556 58682 16555 61792 17007 25378 47877  
42652 48479 57250 71654 62510 2265E 47647 87197 11961 43961  
23807 53875 30127 07885 42787 23891 46452 91387 45670 21245  
78355 25734 95449 74046 07573 08980 43688 000 000

**8164/6964/5764 kHz, 27-10, 2110/2130/2150 UTC**

197 197 197 1 4308 193 4308 193  
22020 41153 04679 42810 61206 30035 68099 52337 55483 10338  
49689 84832 55501 18513 31209 50255 22905 21724 23881 77012  
86860 17961 97157 00417 27749 18745 33944 28658 48295 10125  
00106 61839 36503 41057 22304 87514 13928 53582 88937 55569  
28471 95703 06177 31681 58019 21907 14325 22643 35571 47529  
60372 50791 22517 75532 25859 01387 87052 40029 63969 73063  
84145 07155 96906 92741 14844 77938 79296 66168 69333 39270  
73310 68657 39413 90867 04193 65092 96311 50094 72548 60201  
73683 54527 82515 87192 98177 90068 87577 99902 67287 02383  
43836 38196 85807 49318 77424 15302 70371 64333 58607 39605  
12961 47595 15222 21085 06867 48235 16542 65331 80205 74173  
71549 22007 31417 38713 08215 49765 74227 33187 59424 12774  
88036 57819 38842 22678 88226 86746 68859 25188 04029 24262  
19810 87541 07875 39564 87758 84276 47283 22665 13267 40042  
67165 80839 55546 45220 28876 48445 54576 98657 01585 58462  
56161 72948 76665 20921 38317 08917 64487 35097 70182 65716  
47874 14082 96640 12210 10764 62797 70177 56421 92347 40877  
44663 02036 69155 29115 45987 27754 12270 28740 00571 90029  
50613 49642 07088 01035 30708 61309 72448 04749 69058 00542  
84823 68169 84777 000 000

6837/8037/9237 kHz, 0030/0050/0110 UTC

**6837/8037/9237 kHz, 11-10,/14-10 0030/0050/0110 UTC**

802 802 802 1 956 136 956 136  
71154 84047 88086 74922 74762 39493 16817 77455 73263 98539  
24008 02548 59500 35006 54401 41888 20295 52322 10342 57828  
85029 22343 66195 62928 50359 12876 34320 17454 83229 48280  
27226 24520 29184 50162 23882 95601 66740 68592 97591 40167  
10482 76082 36674 75676 31005 74048 55638 17678 05494 82570  
81702 23766 76878 12625 25212 80087 07345 12586 36982 89745  
48213 90487 88720 67314 69388 59085 95533 95591 86795 70758  
22655 78993 75654 40841 96529 11114 34217 62068 60319 97743  
96969 79188 58676 49723 64814 75334 33375 81691 12818 38035  
22998 59972 13427 81271 95892 40745 83249 09755 27314 96057  
99136 84199 44683 52875 05061 93351 52163 35299 49522 53162  
35437 75509 64015 29151 21526 57413 40761 72051 12673 21251  
11624 80209 64571 21527 54190 23240 18383 18178 12865 76788  
63870 89863 25397 93579 24833 77789 000 000



**6837/8037/9237 kHz, 28-10 0030/0050/0110 UTC**

802 802 802 1 823 94 823 94  
 61506 49885 66275 73017 74083 80167 57199 23686 31149 48388  
 38644 23727 06473 00451 34135 15974 79266 77979 03048 43765  
 85977 79466 87134 61241 75458 12558 52758 46203 84959 90963  
 82718 99930 13687 78623 66240 07123 29819 38311 08862 68589  
 78675 30781 96641 28783 12467 60384 30241 72293 30171 02675  
 53304 87937 43807 66015 11535 07113 55557 78867 68737 93878  
 89085 52979 63300 99942 88873 76192 89916 04567 73814 15305  
 30437 02861 38144 68626 61978 41532 94748 64223 71888 45058  
 97646 13341 21692 87671 18708 04162 89564 62594 49128 02135  
 37443 96505 78749 02610 000 000

17473/15973/14573 kHz, 0301/0320/0340 UTC
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**17437 kHz, 25-10, 0300 UTC. Quickly cut off (wrong frequency?)****17473/15973/14573 kHz, 25-10, 0301/0320/0340 UTC****17437/15973/14573 kHz, 27-10, 0300/0320/0340 UTC. It seems to be difficult to pick the correct 0300z frequency.**

495 495 495 1 160 108 160 108  
 43160 48815 98308 34932 85839 48046 49623 66104 79361 42369  
 05705 44598 38154 32357 91220 79446 93537 31267 74404 74767  
 36829 91189 54104 19184 21535 67122 51283 64428 66501 67837  
 08720 61708 43432 85383 00330 74691 12035 86943 58292 30742  
 81212 85499 93422 02754 47510 93103 32775 47670 17313 92899  
 42850 37027 86174 81924 95305 86636 54551 51209 39151 73857  
 02570 07527 00700 20040 20558 59336 51726 03008 41888 44388  
 45029 45533 72021 88400 05567 98714 53301 47648 87462 49181  
 85539 56711 90919 99067 64032 77526 60271 32065 66050 08456  
 26559 45462 96353 50989 00280 43285 90987 29956 46809 12015  
 29265 76204 52095 77935 42661 41713 16167 15147 000 000

**M14****12211/10243 kHz 03-10, 0500/0520 UTC**

952 340 340 59 59 = =  
 29017 86005 28834 98229 75710 11738 40573 81214 56517 67345  
 87330 12807 74482 12178 61439 07569 41946 80568 72710 80357  
 37175 58748 01801 56891 75941 36485 27108 51988 21473 50603  
 11144 45172 81228 62587 57313 08329 63921 37465 73044 65094  
 95235 16132 00202 86680 15673 98335 98720 53801 08961 78479  
 94409 39413 34475 01456 26838 91926 62091 30679 58269  
 = = 340 340 59 59 (no closing nulls)

**12211/10243 kHz 04-10, 0500/0520 UTC**

952 786 786 51 51 = =  
 51629 48372 49316 79555 80256 65785 01024 27616 99719 16622  
 11379 03130 10320 06561 04653 81813 37497 72056 84375 62651  
 57777 78816 69493 67393 90047 46943 63815 06570 19360 38673  
 38458 10442 45427 69647 31958 48329 73031 29660 97752 84757  
 86497 23814 53710 45861 75448 70021 13398 94468 04012 13798  
 03775  
 = = 786 786 51 51 00000

**12211/10243 kHz 05-10, 0500/0520 UTC**

952 103 103 62 62 = =  
 15577 30505 77778 89905 17468 55452 98995 73622 00270 70916  
 85459 60933 58168 99084 79329 90767 31462 69636 44995 49027  
 54423 77843 53319 28559 48975 71671 10906 74249 43848 66327  
 26574 69130 23912 09680 32224 10478 39380 47001 00291 65802  
 29552 58463 24958 47707 40805 67817 59339 68510 43504 45713  
 25798 60608 77529 56077 41598 73485 81102 18998 27082 83330  
 82602 88551  
 = = 103 103 62 62 00000

**12211 kHz, 06-10, 0500 UTC. Off after group 34**

**10243 kHz, 06-10, 0520 UTC**

952 847 847 62 62 = =  
87517 33879 33401 63852 76614 49525 17423 87808 90147 58505  
31678 19814 23640 42408 79003 23533 17847 92197 25140 57245  
87002 68174 92263 10222 44418 46742 86588 09499 80142 27434  
27242 33013 70353 98628 68595 90009 23175 85399 33249 54686  
90610 27920 97832 63980 01281 63884 98840 15471 93636 13363  
50662 26304 54362 89540 93018 39096 91634 83763 09971 85747  
97935 98352  
847 847 62 62 00000

**12211 kHz, 07-10, 0500 UTC**

**Odd preamble. Normal id is 952. Slow morse, break in group 8, then normal speed**

480 480 480 00000 (R4) 631 631 52 52 = =  
02962 42275 28580 67434 16422 50415 67928 2956 4 break 63 480 480 480 break 29568 14904 86088  
83592 99373 46246 78882 50548 61852 61117 85441 43485 22855  
25756 96899 92760 82585 58248 64000 28732 51000 74264 69577  
62897 47286 53223 03079 79298 50619 60793 1684\* 34614 94363  
88679 68784 90378 20931 97636 81210 25768 39457 74641 70421  
04391 53514  
= = 631 631 52 52 00000

**10243 kHz, 07-10, 0520 UTC**

480 480 480 00000 (R4) 631 631 52 52 = =  
02962 42275 28580 67434 16422 50415 67928 29568 14904 86088  
83592 99373 46246 78882 50548 61852 61117 85441 43485 22855  
25756 96899 92760 82585 58248 64000 28732 51000 74264 69577  
62897 47286 53223 03079 79298 50619 60793 16842 34614 94363  
88679 68784 90378 20931 97636 81210 25768 39457 74641 70421  
04391 53514  
= = 631 631 52 52 00000

**12211 kHz, 10-10, 0503 UTC. Late start and briefly slow morse at 0503z, then normal speed.**

**10243 kHz, 10-10, 0520 UTC**

952 478 478 51 51 = =  
03998 38013 20236 91318 67771 86335 41049 51049 43093 37981  
32952 71419 11623 26028 60235 43385 50674 24716 07461 31535  
67047 62362 62760 84309 16898 64436 52006 98625 97570 56519  
72302 81072 22358 81790 98227 72880 14088 12777 59271 30850  
78513 62004 11900 81420 43415 21283 54682 90074 74368 84277  
59928  
= = 478 478 51 51 00000

**12211 kHz, 11-10, 0502 UTC. Late start**

**10243 kHz, 11-10, 0520 UTC. Distorted audio. FSK CW**

952 106 106 52 52 = =  
89766 85928 26101 56814 49794 87587 45020 19675 81110 07639  
54726 75901 02968 31777 05835 64288 12931 40770 41906 76245  
11089 25273 42261 13628 07958 19095 57084 07990 39518 68120  
20743 30960 37807 77049 54278 50407 30527 01169 92980 12104  
68090 75321 00013 51554 01541 97277 51994 65700 59791 07685  
07501 99163  
= = 106 106 52 52 00000

**12211/10243 kHz 12-10, 0500/0520 UTC**

952 437 437 56 56 = =  
40961 62245 38998 25809 57065 34140 22445 98372 73768 73306  
27676 27266 10750 14829 88575 49278 63746 71352 13171 03538  
98395 96041 67165 92955 76207 06184 60704 61786 61099 09625  
49293 43981 79936 01220 84820 62040 35518 21493 77609 81027  
95433 94699 55443 47462 05243 88456 30508 67753 99405 62154  
10174 05875 08408 96314 12565 04963  
= = 437 437 56 56 00000

**12211/10243 kHz 13-10, 0500/0520 UTC**

952 806 806 52 52 = =  
31462 93696 31606 68749 86879 36917 95462 12256 52783 44493  
04801 21988 45468 72101 83971 24564 97329 53175 32444 53827  
35078 83739 17718 59162 40083 17885 21458 79927 39287 16082  
49794 40688 00120 13505 43712 46938 27859 00570 50484 85995  
88859 32865 42075 62767 08114 12666 91447 25055 14552 09211  
42727 58108  
= = 806 806 52 52 00000

**12211/10243 kHz 14-10, 0500/0520 UTC**

952 317 317 58 58 = =  
10638 05931 33907 57636 51997 09739 89871 81365 86571 44182  
79617 66090 31866 87587 22772 27396 28077 27029 63207 94681  
47382 24554 88935 79375 78728 58855 39210 79171 92790 69318  
16011 04248 16796 48787 42125 36385 73893 59182 32990 56948  
66771 68310 74496 04637 10192 31307 23931 48966 42143 65138  
76256 90411 68290 89610 62908 23141 19417 33326  
= = 317 317 58 58 00000

**12211 kHz, 17-10, 0501 UTC. Late start. Several breaks during the callup  
10243 kHz, 17-10, 0520 UTC**

952 648 648 55 55 = =  
16632 20266 15557 06433 02090 57577 00177 59597 16978 71016  
30622 69391 60322 92311 23521 83864 71945 93493 78648 75017  
52452 55590 66155 93679 31364 78042 17410 42457 25585 39787  
74128 40175 55390 47924 75513 76266 10112 34937 88048 78542  
80730 90368 07670 42773 01541 37919 88983 97526 68092 68092  
93883 81218 02697 23585 67881 75611  
= = 648 648 55 55 00000

**12211 kHz, 18-10, 0500 UTC**

**10243 kHz, 18-10, 0520 UTC. Carrier till 0524z, then FSK CW. At 0526z normal morse**

952 107 107 55 55 = =  
78506 30112 16817 71167 59403 69634 24268 30964 37792 92104  
56726 31199 15690 00259 66128 97837 29343 82437 04703 19633  
35575 63070 71129 47679 53311 29033 36098 91937 89957 80329  
89441 25680 07344 78520 76049 33764 06890 91345 12723 65711  
38727 56977 03192 79497 64373 16340 93450 87004 27785 86925  
34620 37069 14342 76566 45512  
= = 107 107 55 55 00000

**12211/10243 kHz 19-10, 0500/0522 UTC**

952 463 463 52 52 = =  
23119 31972 85779 92668 92190 19208 46473 94400 70573 51820  
73482 51420 76673 44488 25914 62854 99371 79833 90489 05354  
11834 51239 39376 40999 05785 97952 49443 32331 59918 18405  
12629 12950 86748 72697 92116 87121 24375 10187 03990 56820  
65452 83093 29067 99650 40565 32102 84600 46092 98170 54851  
10527 29487  
= = 463 463 52 52 00000

**12211/10243 kHz 20-10, 0500/0522 UTC**

952 870 870 52 52 = =  
39507 49060 81628 22431 10880 73590 05799 66797 29895 52523  
09487 79083 04198 06671 84713 34205 57470 74935 03414 53929  
83973 30741 18315 04987 07862 22374 83434 95330 33228 66955  
42647 10726 95806 52700 59763 58858 52272 29173 88533 13157  
68078 90215 06050 73500 89762 79235 57947 86012 12669 71554  
88870 89126  
= = 870 870 52 52 00000

**12211/10243 kHz 21-10, 0500/0522 UTC**

952 136 136 57 57 = =  
78290 21484 67649 53901 09366 68197 97264 78975 03629 03418  
90049 12184 45282 35725 01786 71756 97123 12391 10204 28265  
96562 18194 02852 12677 39625 14189 64655 22941 57627 39842  
82383 15044 16218 26996 08190 89478 91475 99078 49429 09063  
02736 54011 76922 09038 06846 54235 68877 85394 83540 72317  
32633 72356 66606 65550 71422 44961 00545  
= = 136 136 57 57 00000

**12211 kHz, 24-10, 0505 UTC. Late start. 952 (R4) only****10243 kHz, 24-10, 0522 UTC. Late start**

952 136 136 57 57 = =  
78290 21484 67649 53901 09366 68197 97264 78975 03629 03418  
90049 12184 45282 35725 01786 71756 97123 12391 10204 28265  
96562 18194 02852 12677 39625 14189 64655 22941 57627 39842  
82383 15044 16218 26996 08190 89478 91475 99078 49429 09063  
02736 54011 76922 09038 06846 54235 68877 85394 83540 72317  
32633 72356 66606 65550 71422 44961 00545  
= = 136 136 57 57 00000

**12211/10243 kHz 25-10, 0500/0520 UTC**

952 183 183 52 52 = =  
75377 47534 92431 57742 14592 06320 07274 73134 80585 96976  
41628 38442 15724 20263 18989 44649 17483 51333 28975 84049  
43404 33238 38569 25242 79811 89272 97617 59313 66487 15104  
43232 40651 94496 36635 32822 70831 19337 44513 60419 95552  
56611 41243 35996 37172 52410 61842 32451 14003 45584 53951  
29967 15241  
= = 183 183 52 52 00000

**12211/10243 kHz 26-10, 0500/0520 UTC**

952 674 674 51 51 = =  
51547 91604 03412 38326 08739 47160 31815 46657 47890 59969  
29081 38839 36772 37908 54681 87687 91793 99618 59812 14103  
17035 38421 50695 22313 74232 41005 25801 04749 00917 46854  
16692 64992 18876 59316 87156 32220 00141 44282 70341 65594  
82676 77398 48551 72024 52972 25748 05417 85758 37706 74944  
05115  
= = 674 674 51 51 00000

**12211/10243 kHz 27-10, 0500/0520 UTC**

952 380 380 59 59 = =  
30327 57163 22332 52626 99038 94220 52751 18570 38920 49039  
26836 03709 11903 19040 45533 56978 58730 63287 55904 47366  
67679 14843 56622 10101 99235 72890 02379 87461 83917 60597  
36910 12662 35426 59626 09328 10235 46316 57250 53430 11355  
58383 66998 34695 07548 24929 08779 94633 91208 07122 59412  
47195 56377 71625 09503 06911 58206 81673 87609 53464  
= = 380 380 59 59 00000

**12211/10243 kHz 28-10, 0500/0520 UTC**

952 761 761 54 54 = =  
68080 92421 09471 09543 99580 00899 01946 98440 57050 55008  
15572 28346 47393 70494 10199 79152 48287 01737 62676 34892  
53782 63494 44339 14899 48906 97674 23583 30470 11705 77304  
54487 71702 66173 64901 37402 54189 34487 67419 62447 80267  
62003 54971 71863 94506 13439 35505 02139 38123 63693 02624  
91871 32002 31721 98738  
= = 761 761 54 54 00000

**12211/10243 kHz 31-10, 0500/0520 UTC**

952 430 430 58 58 = =  
15591 76929 80679 03375 54976 20516 95482 79617 36677 78237  
64068 91872 91741 58343 67698 21514 77403 73825 80485 59891  
29293 72246 62289 91528 71173 53165 89589 67259 74386 34097  
29043 90750 84182 50947 83397 66828 55147 03858 64460 85072  
62882 84391 72803 37090 84156 45015 88896 90928 62690 96794  
05351 71046 02783 46256 54966 17291 57950 07341  
= = 430 430 58 58 00000

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

**8293.5 kHz, 20-10, 1200 UTC, i.p.**

952 06657997 13  
952 16657967 13  
960 06683254  
72 60 14  
952 36663946  
71 60 900 13  
72 960 16683234 72 600

## ***M51a / M51b***

**M41b: 5501//6825 kHz, 11-10, 1825 UTC**

**Non-stop 5 character groups composed of M51a messages. Space between messages was added afterwards.**

GVXHS WNQHA IKDLS MWPZY DGS HA NWJDU DGRUJ WKLSP NJWKE UJSHZ  
OKHJD BXHRT 36271 IUJFG CBSJZ WHNSL KOLWM AUJDG XBCFV WHNSK  
OLMQH AYHDG XVCFD BWJZU XIDKC XKJDU HNDIC VPMRY 65378 KLSGQ  
WNB DH XVCUR CIKDL PMSVR XVCHF YHFKS ZUYHS 56372 BWVDY IKDHY  
XBCJS GBWJZ UJWKL JKDBV YHCIR YHXVF GBFYR DFSCZ UJVFC FVCHD  
FKSLR WCX FV HNFLA PHFCT WVXHZ QJHAU 67354 BXHDY WBXHZ GFCUJ  
SHRTF CJGUH 10964 GBCHS WBXUY TGDJZ 652/3 BXHSJ WKAPL PMDHV  
BXGRT DFXCS JNCGV YHXJZ JWKA O K LWUY HNCRD XVCHZ YHWJZ PLGCV  
TGXLA PMWJD WFGRT CJSIZ WNXGD YHDGV 64829 IKFHC BXHDL VHDUJ  
VCXGR YHSPA PKLDU LWJDY GHFUC VXYRT DGS HZ LKFHT KHDYT XVDJK

UJDKX VBDJZ WNSHQ XVDKA OLQLP OKHNC VHFUR SHNXJ WVXHZ JSKZI  
OLDJH VCJSU ZYDFS WBXJS 37281 KJNCG TGDHS 7359/ JNWKS YHDKS  
OLSJU YHSPL WNDHZ CIAHV XVCGR AIKSP LIJFT 52847 GBWCV VCHFP  
AIKDM SJWNX KA UJD LSORV CHFDZ WHNSJ AIKDP MIKJY HBFV LDFCV  
XBSKZ 63829 UJSLA BWJRY FLQPA MLJIT CHFUZ SBXJS UJQKA ZNWHF  
YHDKZ SHXVC YHZKQ WBXJZ 53826 ZUJDL NBXJD YHAPS XVCJF 18548  
YHDIK XBCKS ZUHDK WNXKZ KIOSL HNWJS THZLP WBXKS YHDGV UJSKZ  
VXYRP SJXLZ WNXKF CJSUR CKSUZ WHNCP LXIET DGSUZ 36528 NBCVX  
UJSKA ZUSFC XVXVX HNXJS IKWLZ OPAJB GV FHB JSYRT FGCJS KJDGS  
6382/ JNCJD XYHRI SJZIS /4637 XHNDJ SKAPL YHDUT JKDGC BXNQK  
YTSHA WBXJM XKLDU LDLDU BCHVN GBCJR XVCHU TIGLD UJDKZ 65382  
BWJSU AKSLQ WPETD GVXJD JSKZI JDHCV XNSKZ

**M51a: 3881//6825 kHz, 16-10, 0820 UTC**

VVV VVV VVV DE FAV22 FAV22 FAV22 QLH 3881/6825 KHZ

DIMANCHE 5/LEÇON NUMÉRO 1/2 VITESSE 600 CODÉ =  
VXSYW JSJPO APQOI VCB SH ZXS KL NMVCB EUYSJ KLJHS VCBXH 02564  
BCDFW ?+., ' LPDOU XNCBM XZSAD VCB SG NOLEP VCB SQ RYTUI MDJSI  
, '.?/ NSACQ 58401 KDOEP VMDKW LDOUA ZSWOJ BCNDH KDUEI VCNAQ  
ALPCI 48932 LPOEI ,/.ASVA ZAQID BBCDJ ALKSO XBCHS SJWIX BCNCJ  
CMSKW CZFST 12036 SAWQD .?=? ZNXJS QPLOS DHDWU XBCNS AJSWI  
XETYC VNMSK AQOIW 89564 JGUYI ?/., ' JQIAL OILPU XVAGW DHFGR  
VNMEI SAHWU DDPLI CBSJW 23561 VSDWR ?.,VA' NCPOE XBSHW SKWOP  
SABWU CBEYD NBMCK SAJWU XCVWY 43692 BCHWJ .?/AS. CXAFQ JFILH  
MNLFP+

DIMANCHE 5/LEÇON NUMÉRO 2/2 VITESSE 600 CLAIR =  
 AINSI LE SECRÉTAIRE GÉNÉRAL DU CONSEIL SUPÉRIEUR DE LA FONCTION MILITAIRE (CSFM) ET CELUI DU HAUT COMITÉ  
 D'ÉVALUATION DE LA CONDITION MILITAIRE SONT, DE DROIT, DES MEMBRES DU CONTRÔLE GÉNÉRAL DES ARMÉES.  
 HABITUELLEMENT, ENTRE VINGT ET TRENTE MEMBRES AU MOINS DU CORPS OCCUPENT DE TELLES FONCTIONS. LA PRODUCTION  
 DU CONTRÔLE COMPREND DES RAPPORTS, DES NOTES D'ÉTUDE, DES COMPTES-RENDUS DES COMMISSAIRES DU GOUVERNEMENT,  
 DES AUDITS... LE CGA PRODUIT UNE CENTAINE DE NOTES D'ÉTUDES ET DE RAPPORTS PAR AN ET PARTICIPE À DE TRÈS NOMBREUSES  
 RÉUNIONS AUXQUELLES IL APPORTE SON EXPERTISE+

CQ DE FAV22 VA

**M51b: 3881//6825 kHz, 16-10, 0900 UTC**

**Non-stop 5 character groups composed of M51a messages. Space between messages was added afterwards.**

OKDHS WBXVD QAJAK QLAMP UJGCV DHETS QJHDG XVCJD WKJZI QKJAO  
 UJFHD WXXJS ZKLQP 28645 SGWBX JQKAO PLAUH /764/ JNFHD UJDKS  
 IKALO SJDBG CJDLA PMQKX WJFML TYHFK DHNND SJEKZ UJSLK UJDHX  
 CKDGE SHGDB XNSJZ QKALM PLOLK NCHFK 65483 SGBXJ WJSUZ PLGHL  
 XNBDK SKLZM QNWJZ AHJDK WCXVD 53872 WBNXJ 01875 UJDKL WNBKD  
 ZYHDK QLKMA HNDJC UJDKL SJHTF SJHTF CBXGR GSHZQ MQJFV PMAUH  
 BCFVG SHZYA 37619 NWJSY DGSZH QJNWK ZUJAP LQMAY DGCXV IJFHC  
 XBSKA UJQLW NXVCJ SKEUD OLSPA MQKJG CBFGT JDXKC 20617 DHEYS  
 WKBKD SJAIQ QKLAY DLFGC VSHDF XJSKZ JQKDH XUJEO ZHQJZ AHDJS  
 WYXKS AUJSK AJNWJ KLQPE SHGDU ZHDFX WBSJZ HDJSI 36287 10638  
 HSGDT XVDJS KQLAP UJDLS XNFGC ZUJSL PAKLD GBXJS ZJQKA PLWCV  
 DGXVF CNETS 46382 BXNTG SJAKU

**M51b: 3881/6825 kHz, 26-10, 1625 UTC**

**Non-stop 5 character groups composed of M51a messages. Space between messages was added afterwards.**

GBXVD QJAUD WNQMA QPLHJ FGCVR QKJHF VXBET SFQGA JKWIR TGQLP  
 YHDJZ BWNJS AUJQK 28765 01753 GBCHS WBSJA WNQJK AIKSL QMAPH  
 YUHDJ SJBSF VXHSF QHAUJ WNQKA IKDGV 63784 BGCJD XNSJR SJHQK  
 HBCJD WVSJZ 3764/ WNHSF QJHAU RTDGC XMLQI KDHSB XNDGR SHGIM  
 KJFHC XNWSK ZIJAK WKQLA YHDOL 67849 NXKDJ SHWBS IJDGZ WNBCH  
 UJDKL WNBKG DFZRS WBWNU ZHSGQ AJHNU 78356 WBXVD QJHND UJDHB  
 WCXVS QHAMQ WNHZI JQKAL HNBJC DUJXB VWGDT ZRFSX WNBHU UHFGC  
 VXHSD WXCSE ZYHQB WNBHX ZUJAL KNJUH BXHDF 65382 BXNSH JQHBX  
 WNBKY FGDHZ WJQKZ HBXKS IAJHF BXNDK SLKWH DYXHR SKZLF

MJHEU ZOIWG HLEDG PQUTB KDFRB ASMNT LXCNU HUDVO SKTNI 58726  
 BCSWK '?+', POFKH SVRYX MZLFW GOUVJ AQDEG CNTHP KLJSG PNYFJ  
 33948 BXAQJ .,+/SK PLMME GBYXG JHSRR LMAUR BYDIJ VWAQT ZOUIH  
 MEGSQ 63591 VAQHS ?.,/ AIRFC NTGOK CWSUN SOEAT SMHES OPLFR  
 BTANS PFIRG 36115 BCZMA /?.', SICAV HYQWO VHESR OKSBY FKLJS  
 SMEXR ZZYGT LIMER 22654 ZCZQA , 'SK ,IMSUY WASPS LUCKY SWAPS  
 32598 VZAQG ,?.,' MONEP NYDCF LOIUD OPTIO RATES FORWD FUTUR  
 KIFRC 36541 CZPLO /? SK =' BIDSS GREAT YHTFD VMNSI

SHQJA WNXJD QKAIL QMAPO BHJRT XVSJQ WJGDH EUZJD CNFJT SJZKA  
 YHDJS JQKEU DIKQZ KLZSG 36276 10984 JGDHS WJURY PEUSH ZUJDG  
 SHWBC XVSHE ZUJAI QKDGf HCBVJ SKRYF CBXVD 46359 UJHDI KSLOP  
 JHFGC GFCBX NJETD SHZUJ AJKSI QKBCV FGRYD SXKJN OHFGV 45287  
 HBCGF XNWJR DUJYG CVXKJ HSGZY WBZAJ KAIQF PAMJK UJBGT CVXJS  
 ZUJQK 27108 HAJKR GBXJS AJSUK QKOAL PMAYH JQKZU

HNDJS XVBWZ QKPAH DJNCJ RTSZH UJQKZ 63829 UJDGC VVKZO ALKFG  
 JKDUJ NXVDG ZUJDL SMQOZ SBXCF DGHLE DGSZH WJQKR DGVFH CNXJR  
 UJDBC OLRTS WJQKA ZOKDL 46372 BXNWJ SJQKZ AOLPF GCBXJ SKZUY  
 PMJHF BCVRT DYZKP SKZPI KUJFH XVCGC XHNDJ RUGHS ZKQMP ZUJDG  
 OYHFG CBXKR SGZUJ SKQIK ZUJPS HXBCH NBVJT 84735 HBCJD XNSJR  
 PJBLR DMSKN WNQKP DHBCK RTDGS PLHJR DGCJZ SJZUC VVKJH

XCWVQ AGBWH QJAKL QNWJE SUJAI KQLAP MQNHB XWVHD SJQKA ZUSHQ  
 YHDSH WCXGF QJAHK QJNWK EUHSI AOLQP AMIJD XBWGR OLAPM QNWBD  
 XVSGR 35289 10378 SJNXV CHBFG RTSUJ AIKQL WMQPL NJKQI ZYHDK  
 SJQKA LWMPK CHDFX WVSZD QHGYR QKAIJ WNGOP AMLIF UYUYT GFBCH  
 SNJKL QMAPY DGXVC BXGCT RTGDH 46387 SBXJA 10638 XBDGH QJAKL  
 IKAOL XBCVF DHXBW QNAKL QMAPU DGSJQ KANVX WBERS QHAJK QLAMP  
 RTDGS YHFGC XBWVS QDWXC SGERZ AJHKQ LMCBF HNXRV SHQJE ZUJKI  
 SLQMA OLJNB VCGRT SHFZA 27189 DHVXB WNSGA QCWGD XJQKL APMLQ

JHNBG UJHNV XCDGE STGZA QHWVS QJAUQ QLAMP NHDGX VCGER 35210  
WVXHR APMNC XBWHS QHBGE ZYHSG QJNWK AUJDG SDWCQ XBWJU HYETD  
VXKQL KJDGZ QBWNH 36106 XVCGD 35265 QBWHA ZUJHD FVCBX WNQJA  
GHDFS QJHYT IKDGS WBXVD SHQGA KLMQP JAPLI JNBVH XJQKI BXJDG

## ***M89 - Chinese Military***

### **4853 kHz, 09-10, 1115 UTC, i.p.**

RPT 1P 36W 4T7D 4T7N K  
RPT 1P 50W 6N76 6N76 K  
RPT 2P 08W ATAU ATAU K  
RPT2P 13W 4T5N 4T5N K  
R GA K

### **4985 kHz, 20-10, 1214 UTC, i.p.**

R FF NR 69 4/EX 2014 RMKS 0141 TO 0166 =  
EF/G75 AR  
NR 6994/EX 2014 RMKS 0141 TO 0166 =  
EF/G75 AR K  
R U F GA K

## ***M95 - Chinese Military***

### **4364//8073 kHz, 09-10, 1130 UTC, V26: Callup in Chinese voice**

### **4364//8073 kHz, 09-10, 1132 UTC, Q26: 4+4 QPSK 75/3000 LSB. Messages**

### **4364//8073 kHz, 09-10, 1146 UTC, M95: CW**

V BNGC (x3) DE XSV85 (X2)  
HR MSGS GA PSE CY  
NR 0767 CK 518 35 1009 1601 =  
TTN 3U6 3AN 3U7 TAU 773 356 4T3 NN3 446 3D3 346 ...

### **4283 kHz, 18-10, 1310 UTC**

XSV70 wkg BNEC = NR 939 CK 117 35 10 18 1634 =  
3U6 3A4 007 773 34A U46 353 4A7 445 ff =  
(message repeated twice)

### **4364//8073 kHz, 30-10, 1158 UTC, BNGC DE XSV85 i.p**

773 TU6 773 T.7 773 TUN 773 7AN 7AD ... AR  
AHR 7G GA NR 0884 CK 622 35 1030 1640 =  
54. T3T 3U6 3AN 3U7 TAA 773 TA7 773 T.D 773 754 ...

### **4754 kHz, 30-10, 1242 UTC, i.p.**

R RPT 8.W TO 90W = 5DAN AN3T 3756 5NA6 5NAT TNA3 5DNU 35TD ATU6 53NT AR K  
R RPT 80W K  
R RPT 80W TO  
RPT 80W = 467U AR  
R RPT 8W K  
R HR RPT 91W = = TUD5 K  
R RPT 80W K (Both stations on this frequency)  
R RPT 80W K  
R RPT 80W = 467U AR K  
R RPT 71W TO 79W K  
R RPT 71W TO 79W K  
R RPT 71W TO 79W K  
R RPT 71W TO 79W = NU7A ADT5 4D36 N65U 6N54 D3T4 NU7A 467A T5D4 AR K  
R RPT 91W TO 99W K  
R RPT 91W TO 99W = = TUD5 357D AN75 76U4 76A4 4DAN T437 57UD UD73 AR K  
QSL TIME 1048 WK NR 020 K  
RR RPT WK NR K  
R QSL TIME 1048 WK NR 12. K  
QSL TIME 2048 WK NR 020 K  
RPT WK NR K



OK NR 020 K  
R HR WK NR 425 K  
HR HR WK NR 025 K  
HR MSG TO U WB EEE HR 7G TO U PSE CK K  
MSG GA K  
7G NR 263/CCK CK 99 .9 1030 2005 RMKS .590 TO 4561 TO 459. AR K  
R GA K

## MC03 - Chinese Air Defense

4167.5 kHz, 18-10, 1300 UTC, i.p.

D54 UAAU56 U5 =  
D54 UA5A74 N5TA636 TN7 U5 =  
D55 U3AU3A U7ATU34 A55 U6 =

## UM04 - PROMRCh

4735 kHz, 01-10, 0700 UTC

VVV VVV PROMRCh = 01 10 =  
1000 0780 0820 0960 1380  
1200 0820 0860 0990 1390  
1400 0870 0910 1040 1450  
1600 0860 0890 1020 1430  
1800 0860 0900 1040 1470  
2000 0710 0740 0840 1160  
2200 0550 0570 0650 0880  
0000 0480 0500 0550 0730  
0200 0470 0470 0530 0690  
0400 0440 0450 0500 0660  
0600 0430 0450 0520 0720  
0800 0680 0700 0830 1220  
= ABV  
VVV VVV PROMRCh = = 01 10  
=  
1000 0780 0820 0960 1380  
1200 0820 0860 0990 1390  
1400 0870 0910 1040 1450  
1600 0860 0890 1020 1430  
1800 0860 0900 1040 1470  
2000 0710 0740 0840 1160  
2200 0550 0570 0650 0880  
0000 0480 0500 0550 0730  
0200 0470 0470 0530 0690  
0400 0440 0450 0500 0660  
0600 0430 0450 0520 0720  
0800 0680 0700 0830 1220  
= AR

4735 kHz, 02-10, 0700 UTC

VVV VVV PROMRCh = 02 10 =  
1000 0780 0820 0970 1380  
1200 0830 0870 1000 1460  
1400 0880 0920 1050 1460  
1600 0860 0900 1030 1430  
1800 0860 0900 1050 1480  
2000 0710 0730 0840 1160  
2200 0550 0570 0640 0870  
0000 0480 0500 0550 0730  
0200 0460 0470 0530 0690  
0400 0440 0450 0500 0670  
0600 0430 0450 0520 0720  
0800 0670 0710 0840 1220  
= ABV  
VVV VVV PROMRCh = 02 10 =  
1000 0780 0820 0970 1380  
1200 0830 0870 1000 1460  
1400 0880 0920 1050 1460  
1600 0860 0900 1030 1430  
1800 0860 0900 1050 1480  
2000 0710 0730 0840 1160  
2200 0550 0570 0640 0870  
0000 0480 0500 0550 0730  
0200 0460 0470 0530 0690  
0400 0440 0450 0500 0670  
0600 0430 0450 0520 0720  
0800 0670 0710 0840 1220  
= AR

4735 kHz, 03-10, 0700 UTC

VVVVV PROMRCh = 0310 =  
1000 0790 0830 0P80 1390  
1200 0840 0870 1010 1420  
1400 0890 0930 1050 1470  
1600 0870 0910 1040 1450  
1800 0870 0910 1050 1490  
2000 0700 0730 0830 1140  
2200 0540 0560 0630 0860  
0000 0480 0490 0540 0720  
0200 0460 0470 0520 0690  
0400 0440 0450 0500 0670  
0600 0430 0450 0520 0720  
0800 0670 0710 0860 1230  
= ABV  
VVVVV PROMRCh = 0310 =  
1000 0790 0830 0P80 1390  
1200 0840 0870 1010 1420  
1400 0890 0930 1050 1470  
1600 0870 0910 1040 1450  
1800 0870 0910 1050 1490  
2000 0700 0730 0830 1140  
2200 0540 0560 0630 0860  
0000 0480 0490 0540 0720  
0200 0460 0470 0520 0690  
0400 0440 0450 0500 0670  
0600 0430 0450 0520 0720  
0800 0670 0710 0860 1230  
= AR

4735 kHz, 04-10, 0700 UTC

VVVVV PROMRCh = 04 10 =  
1000 0800 0840 0980 1410  
1200 0840 0880 1020 1430  
1400 0900 0930 1070 1480  
1600 0880 0920 1060 1470  
1800 0870 0910 1050 1490  
2000 0690 0720 0810 1130  
2200 0530 0550 0620 0850  
0000 0480 0490 0540 0720  
0200 0460 0470 0530 0690  
0400 0440 0450 0500 0670  
0600 0430 0440 0510 0710  
0800 0680 0720 0860 1250  
= ABV =  
VVVVV PROMRCh = 04 10 =  
1000 0800 0840 0980 1410  
1200 0840 0880 1020 1430  
1400 0900 0930 1070 1480  
1600 0880 0920 1060 1470  
1800 0870 0910 1050 1490  
2000 0690 0720 0810 1130  
2200 0530 0550 0620 0850  
0000 0480 0490 0540 0720  
0200 0460 0470 0530 0690  
0400 0440 0450 0500 0670  
0600 0430 0440 0510 0710  
0800 0680 0720 0860 1250  
= AR

5 Oct: not monitored

**4735 kHz, 06-10, 0700 UTC**

VVV VVV PROMRCh = 06 10 =  
1000 0810 0850 1000 1420  
1200 0870 0910 1050 1460  
1400 0910 0940 1080 1500  
1600 0900 0930 1070 1500  
1800 08E0 0920 1060 1500  
2000 0680 0710 0810 1120  
2200 0520 0540 0600 0830  
0000 0470 0480 0540 0710  
0200 0460 0470 0520 0690  
0400 0440 0450 0500 0670  
0600 0440 0440 0500 0700  
0800 0690 0730 0870 1260  
= ABV =  
VVV VVV PROMRCh = 06 10 =  
1000 0810 0850 1000 1420  
1200 0870 0910 1050 1460  
1400 0910 0940 1080 1500  
1600 0900 0930 1070 1500  
1800 08E0 0920 1060 1500  
2000 0680 0710 0810 1120  
2200 0520 0540 0600 0830  
0000 0470 0480 0540 0710  
0200 0460 0470 0520 0690  
0400 0440 0450 0500 0670  
0600 0440 0440 0500 0700  
0800 0690 0730 0870 1260  
= AR

**4735 kHz, 07-10, 0700 UTC**

VVV VVV PROMRCh = 07 10 =  
1000 0810 0850 1010 1450  
1200 0870 0910 1050 1470  
1400 0920 0950 1090 1520  
1600 0900 0940 1080 1510  
1800 0870 0920 1060 1510  
2000 0680 0710 0810 1110  
2200 0510 0530 0600 0820  
0000 0470 0480 0540 0710  
0200 0460 0470 0520 0690  
0400 0440 0450 0500 0670  
0600 0420 0430 0500 0700  
0800 0690 0730 0870 1770  
= ABV  
VVV VVV PROMRCh = 07 10 =  
1000 0810 0850 1010 1450  
1200 0870 0910 1050 1470  
1400 0920 0950 1090 1520  
1600 0900 0940 1080 1510  
1800 0870 0920 1060 1510  
2000 0680 0710 0810 1110  
2200 0510 0530 0600 0820  
0000 0470 0480 0540 0710  
0200 0460 0470 0520 0690  
0400 0440 0450 0500 0670  
0600 0420 0430 0500 0700  
0800 0690 0730 0870 1770  
= AR

**4735 kHz, 08-10, 0700 UTC**

VVV VVV PROMRCh = 0810 =  
1000 0820 0870 1010 1450  
1200 0880 0920 1060 1500  
1400 0920 0960 1100 1530  
1600 0910 0950 1090 1520  
1800 0870 0910 1060 1500  
2000 0680 0710 0810 1130  
2200 0510 0530 0600 0810  
2400 0470 0480 0540 0710  
0200 0460 0470 0520 0690  
0400 0440 0450 0500 0670  
0600 0410 0430 0500 0690  
0800 0690 0740 0880 1280  
= ABV  
VVV VVV PROMRCh = 0810 =  
1000 0820 0870 1010 1450  
1200 0880 0920 1060 1500  
1400 0920 0960 1100 1530  
1600 0910 0950 1090 1520  
1800 0870 0910 1060 1500  
2000 0680 0710 0810 1130  
2200 0510 0530 0600 0810  
2400 0470 0480 0540 0710  
0200 0460 0470 0520 0690  
0400 0440 0450 0500 0670  
0600 0410 0430 0500 0690  
0800 0690 0740 0880 1280  
= AR

**4735 kHz, 09-10, 0700 UTC**

VVVVV PROMRCh = 0910 =  
1000 0830 0870 1020 1470  
1200 0890 0930 1080 1510  
1400 0930 0970 1110 1550  
1600 0920 0960 1100 1540  
1800 0880 0920 0060 1500  
2000 0680 0700 0800 1110  
2200 0500 0520 0590 0800  
0000 0470 0480 0530 0700  
0200 0460 0470 0520 0690  
0400 0440 0450 0500 0670  
0600 0410 0430 0490 0690  
0800 0700 0740 0880 2290  
= ABV  
VVVVV PROMRCh = 0910 =  
1000 0830 0870 1020 1470  
1200 0890 0930 1080 1510  
1400 0930 0970 1110 1550  
1600 0920 0960 1100 1540  
1800 0880 0920 0060 1500  
2000 0680 0700 0800 1110  
2200 0500 0520 0590 0800  
0000 0470 0480 0530 0700  
0200 0460 0470 0520 0690  
0400 0440 0450 0500 0670  
0600 0410 0430 0490 0690  
0800 0700 0740 0880 2290  
= AR

**4735 kHz, 10-10, 0700 UTC**

VVVVV PROMRCh = 1010 =  
1000 0840 0880 1030 1480  
1200 0910 0950 1090 1540  
1400 0940 0980 1120 1560  
1600 0930 0970 1120 1560  
1800 0880 0910 1050 1460  
2000 0670 0700 0800 0110  
2200 0500 0520 0580 0790  
0000 0460 0480 0530 0690  
0200 0450 0460 0520 0680  
0400 0440 0400 0500 0660  
0600 0410 0420 0490 0680  
0800 0710 0750 0890 1300  
= ABV =  
VVVVV PROMRCh = 1010 =  
1000 0840 0880 1030 1480  
1200 0910 0950 1090 1540  
1400 0940 0980 1120 1560  
1600 0930 0970 1120 1560  
1800 0880 0910 1050 1460  
2000 0670 0700 0800 0110  
2200 0500 0520 0580 0790  
0000 0460 0480 0530 0690  
0200 0450 0460 0520 0680  
0400 0440 0400 0500 0660  
0600 0410 0420 0490 0680  
0800 0710 0750 0890 1300  
= AR

**4735 kHz, 11-10, 0702 UTC  
Sent twice**

VVVVV PROMRCh = 11 10 =  
1000 0850 0890 1040 1490  
1200 0920 0960 1110 1560  
1400 0960 1000 1140 1590  
1600 0950 0990 1140 1590  
1800 0890 0920 1060 1470  
2000 0670 0700 0800 1100  
2200 0500 0510 0580 0780  
2400 0460 0470 0520 0690  
0200 0450 0460 0510 0670  
0400 0440 0450 0500 0660  
0600 0400 0420 0480 0670  
0800 0710 0760 0900 1310  
= ABV =  
VVVVV PROMRCh = 11 10 =  
1000 0850 0890 1040 1490  
1200 0920 0960 1110 1560  
1400 0960 1000 1140 1590  
1600 0950 0990 1140 1590  
1800 0890 0920 1060 1470  
2000 0670 0700 0800 1100  
2200 0500 0510 0580 0780  
2400 0460 0470 0520 0690  
0200 0450 0460 0510 0670  
0400 0440 0450 0500 0660  
0600 0400 0420 0480 0670  
0800 0710 0760 0900 1310  
= AR

**4735 kHz, 12-10, 0700 UTC**

VVVVV PROMRCh = 12 10 =  
1000 0860 0900 1060 1510  
1200 0940 0980 1130 1590  
1400 0980 1010 1160 1610  
1600 0970 1010 1150 1620  
1800 0900 0930 1070 1480  
2000 0670 0700 0790 1100  
2200 0490 0510 0580 0780  
2400 0460 0470 0520 0690  
0200 0460 0460 0520 0680  
0400 0440 0450 0500 0670  
0600 0400 0420 0480 0670  
0800 0720 0760 0910 1330  
= ABV  
VVVVV PROMRCh = 12 10 =  
1000 0860 0900 1060 1510  
1200 0940 0980 1130 1590  
1400 0980 1010 1160 1610  
1600 0970 1010 1150 1620  
1800 0900 0930 1070 1480  
2000 0670 0700 0790 1100  
2200 0490 0510 0580 0780  
2400 0460 0470 0520 0690  
0200 0460 0460 0520 0680  
0400 0440 0450 0500 0670  
0600 0400 0420 0480 0670  
0800 0720 0760 0910 1330  
= AR

**4735 kHz, 13-10, 0700 UTC**

VVV VVV PROMRCh = 13 10 =  
 1000 0860 0910 1060 1520  
 1200 0950 0990 1140 1600  
 1400 0980 1020 1170 1610  
 1600 0980 1090 1170 1630  
 1800 0900 0940 1170 1490  
 2000 0670 0700 0790 1090  
 2200 0490 0610 0570 0770  
 0000 0460 0470 0520 0690  
 0200 0460 0470 0520 0680  
 0400 0440 0450 0510 0680  
 0600 0400 0420 0480 0670  
 0800 0730 0770 0920 1340  
 = ABV  
 VVV VVV PROMRCh = 13 10 =  
 1000 0860 0910 1060 1520  
 1200 0950 0990 1140 1600  
 1400 0980 1020 1170 1610  
 1600 0980 1090 1170 1630  
 1800 0900 0940 1170 1490  
 2000 0670 0700 0790 1090  
 2200 0490 0610 0570 0770  
 0000 0460 0470 0520 0690  
 0200 0460 0470 0520 0680  
 0400 0440 0450 0510 0680  
 0600 0400 0420 0480 0670  
 0800 0730 0770 0920 1340  
 = AR

**4735 kHz, 17-10, 0700 UTC**

VVVVV PROMRCh = 17 10 =  
 1000 0890 1050 100 1580  
 1200 0940 1070 1210 1690  
 1400 0030 1070 1220 1690  
 1600 1020 1060 1220 1710  
 1800 0920 0960 1100 1520  
 2000 0670 0690 0790 1090  
 2200 0480 0500 0560 0750  
 2400 0450 0460 0510 0680  
 0200 0460 0460 0520 0680  
 0400 0450 0460 0510 0680  
 0600 0390 0410 0470 0650  
 0800 0750 0790 0950 1380  
 ABV =  
 VVVVV PROMRCh = 17 10 =  
 1000 0890 1050 100 1580  
 1200 0940 1070 1210 1690  
 1400 0030 1070 1220 1690  
 1600 1020 1060 1220 1710  
 1800 0920 0960 1100 1520  
 2000 0670 0690 0790 1090  
 2200 0480 0500 0560 0750  
 2400 0450 0460 0510 0680  
 0200 0460 0460 0520 0680  
 0400 0450 0460 0510 0680  
 0600 0390 0410 0470 0650  
 0800 0750 0790 0950 1380  
 = AR

**4735 kHz, 14-10, 0700 UTC**

VVV VVV PROMRCh = 1410 =  
 1000 0870 0910 1070 1530  
 1200 0960 1000 1150 1620  
 1400 0990 1030 1170 1630  
 1600 0980 1020 1180 1540  
 1800 0910 0940 1080 1500  
 2000 0660 0690 0780 1090  
 2200 0480 0500 0560 0760  
 0000 0460 0470 0520 0680  
 0200 0460 0470 0520 0680  
 0400 0440 0450 0510 0670  
 0600 0400 0410 0470 0660  
 0800 0730 0780 0930 1350  
 = ABV  
 VVV VVV PROMRCh = 1410 =  
 1000 0870 0910 1070 1530  
 1200 0960 1000 1150 1620  
 1400 0990 1030 1170 1630  
 1600 0980 1020 1180 1540  
 1800 0910 0940 1080 1500  
 2000 0660 0690 0780 1090  
 2200 0480 0500 0560 0760  
 0000 0460 0470 0520 0680  
 0200 0460 0470 0520 0680  
 0400 0440 0450 0510 0670  
 0600 0400 0410 0470 0660  
 0800 0730 0780 0930 1350  
 = AR

**4735 kHz, 18-10, 0700 UTC**

VVV VVV PROMCh = 18 10 =  
 1000 0900 0940 1100 1580  
 1200 1010 1060 1210 1700  
 1400 1030 1080 1220 1700  
 1600 1020 1070 1220 1720  
 1800 0920 0960 1100 1520  
 2000 0660 0690 0790 1080  
 2200 0470 0490 0550 0740  
 0000 0450 0460 0510 0670  
 0200 0460 0470 0520 0680  
 0400 0450 0460 0520 0690  
 0600 0390 0410 0460 0640  
 0800 0750 0800 0950 1390  
 = ABV  
 VVV VVV PROMCh = 18 10 =  
 1000 0900 0940 1100 1580  
 1200 1010 1060 1210 1700  
 1400 1030 1080 1220 1700  
 1600 1020 1070 1220 1720  
 1800 0920 0960 1100 1520  
 2000 0660 0690 0790 1080  
 2200 0470 0490 0550 0740  
 0000 0450 0460 0510 0670  
 0200 0460 0470 0520 0680  
 0400 0450 0460 0520 0690  
 0600 0390 0410 0460 0640  
 0800 0750 0800 0950 1390  
 = AR

**4735 kHz, 15-10, 0700 UTC**

VVVVV PROMRCh = 15 10 =  
 1000 0880 0920 1080 1550  
 1200 0970 1010 1170 1630  
 1400 1000 1040 1180 1640  
 1600 0990 1040 1190 1660  
 1800 0910 0950 1080 1510  
 2000 0660 0690 0780 1080  
 2200 0480 0500 0560 0750  
 0000 0450 0460 0510 0670  
 0200 0450 0460 0510 0680  
 0400 0440 0450 0500 0670  
 0600 0390 0410 0470 0660  
 0800 0740 0780 0930 1360  
 = ABV =  
 VVVVV PROMRCh = 15 10 =  
 1000 0880 0920 1080 1550  
 1200 0970 1010 1170 1630  
 1400 1000 1040 1180 1640  
 1600 0990 1040 1190 1660  
 1800 0910 0950 1080 1510  
 2000 0660 0690 0780 1080  
 2200 0480 0500 0560 0750  
 0000 0450 0460 0510 0670  
 0200 0450 0460 0510 0680  
 0400 0440 0450 0500 0670  
 0600 0390 0410 0470 0660  
 0800 0740 0780 0930 1360  
 = AR

**4735 kHz, 19-10, 0700 UTC**

VVV VVV PROMRCh = 1910 =  
 1000 0900 0950 1110 1590  
 1200 1020 1070 1230 1710  
 1400 1040 1080 1230 1710  
 1600 1010 1080 1240 1740  
 1800 0940 0960 1090 1520  
 2000 0670 0680 0780 1080  
 2200 0490 0480 0540 0730  
 0000 0440 0460 0510 0670  
 0200 0450 0460 0520 0680  
 0400 0440 0460 0520 0680  
 0600 0380 0400 0460 0640  
 0800 0750 0800 0960 1390  
 = ABV  
 VVV VVV PROMRCh = 1910 =  
 1000 0900 0950 1110 1590  
 1200 1020 1070 1230 1710  
 1400 1040 1080 1230 1710  
 1600 1010 1080 1240 1740  
 1800 0940 0960 1090 1520  
 2000 0670 0680 0780 1080  
 2200 0490 0480 0540 0730  
 0000 0440 0460 0510 0670  
 0200 0450 0460 0520 0680  
 0400 0440 0460 0520 0680  
 0600 0380 0400 0460 0640  
 0800 0750 0800 0960 1390  
 = AR

**4735 kHz, 16-10, 0700 UTC**

VVV VVV PROMRCh = 161T =  
 1000 0890 0940 1090 1560  
 1200 1000 1040 1190 1670  
 1400 1020 1060 1210 1670  
 1600 1010 1060 1210 1690  
 1800 0920 0960 1090 1520  
 2000 0660 0690 0790 1090  
 2200 0480 0500 0560 0750  
 0240 0450 0460 0510 0670  
 0200 0450 0460 0510 0680  
 0400 0440 0450 0510 0670  
 0600 0390 0410 0410 0650  
 0800 0740 0790 0940 1370  
 = ABV  
 VVV VVV PROMRCh = 161T =  
 1000 0890 0940 1090 1560  
 1200 1000 1040 1190 1670  
 1400 1020 1060 1210 1670  
 1600 1010 1060 1210 1690  
 1800 0920 0960 1090 1520  
 2000 0660 0690 0790 1090  
 2200 0480 0500 0560 0750  
 0240 0450 0460 0510 0670  
 0200 0450 0460 0510 0680  
 0400 0440 0450 0510 0670  
 0600 0390 0410 0410 0650  
 0800 0740 0790 0940 1370  
 = AR

**4735 kHz, 20-10, 0700 UTC**

VVVVV PROMRCh = 20 10 =  
 1000 0900 0950 1110 1600  
 1200 1030 1070 1230 1730  
 1400 1050 1090 1240 1720  
 1600 1040 1080 1250 1750  
 1800 0920 0960 1100 1520  
 2000 0640 0670 0770 1060  
 2200 0400 4800 0530 0720  
 0000 0440 0450 0500 0660  
 0200 0450 0460 0510 0680  
 0400 0450 0460 0510 0670  
 0600 0380 0400 0450 0630  
 0800 0750 0800 0960 1400  
 = ABV =  
 VVVVV PROMRCh = 20 10 =  
 1000 0900 0950 1110 1600  
 1200 1030 1070 1230 1730  
 1400 1050 1090 1240 1720  
 1600 1040 1080 1250 1750  
 1800 0920 0960 1100 1520  
 2000 0640 0670 0770 1060  
 2200 0400 4800 0530 0720  
 0000 0440 0450 0500 0660  
 0200 0450 0460 0510 0680  
 0400 0450 0460 0510 0670  
 0600 0380 0400 0450 0630  
 0800 0750 0800 0960 1400  
 = AR

**4735 kHz, 21-10, 0700 UTC**

VVVVV = PROMRCh = 21 10 =  
 1000 0910 0960 1120 1610  
 1200 1030 1080 1240 1740  
 1400 1040 1090 1240 1720  
 1600 1040 1080 1250 1760  
 1800 0920 0960 1090 1520  
 2000 0630 0660 0750 1040  
 2200 0450 0470 0520 0710  
 2400 0440 0450 0500 0660  
 0200 0450 0460 0510 0670  
 0400 0440 0450 0510 0670  
 0600 0370 0390 0450 0620  
 0800 0780 0800 0960 1410  
 = ABV =  
 VVVVV = PROMRCh = 21 10 =  
 1000 0910 0960 1120 1610  
 1200 1030 1080 1240 1740  
 1400 1040 1090 1240 1720  
 1600 1040 1080 1250 1760  
 1800 0920 0960 1090 1520  
 2000 0630 0660 0750 1040  
 2200 0450 0470 0520 0710  
 2400 0440 0450 0500 0660  
 0200 0450 0460 0510 0670  
 0400 0440 0450 0510 0670  
 0600 0370 0390 0450 0620  
 0800 0780 0800 0960 1410  
 = AR

**4735 kHz, 25-10, 0700 UTC**

VVVVV PROMRCh = 25 10 =  
 1000 0900 0950 1120 1610  
 1200 1030 1070 1240 1740  
 1400 1040 1080 1230 1720  
 1600 1040 1080 1250 1750  
 1800 0900 0940 1070 1500  
 2000 0620 0640 0730 1020  
 2200 0450 0460 0520 0700  
 0000 0440 0450 0490 0650  
 0200 0440 0450 0500 0660  
 0400 0440 0450 0500 0670  
 0600 0370 0380 0440 0610  
 0800 0750 0790 0950 1400  
 = ABV =  
 VVVVV PROMRCh = 25 10 =  
 1000 0900 0950 1120 1610  
 1200 1030 1070 1240 1740  
 1400 1040 1080 1230 1720  
 1600 1040 1080 1250 1750  
 1800 0900 0940 1070 1500  
 2000 0620 0640 0730 1020  
 2200 0450 0460 0520 0700  
 0000 0440 0450 0490 0650  
 0200 0440 0450 0500 0660  
 0400 0440 0450 0500 0670  
 0600 0370 0380 0440 0610  
 0800 0750 0790 0950 1400  
 = AR

**4735 kHz, 22-10, 0700 UTC**

VVVVV PROMRCh = 21 10 =  
 1000 0910 0960 1120 1610  
 1200 1030 1080 1240 1740  
 1400 1040 1080 1230 1710  
 1600 1040 1090 0950 1760  
 1800 0920 0950 1090 1520  
 2000 0630 0660 0750 1040  
 2200 0450 0470 0520 0710  
 2400 0440 0440 0490 0650  
 0200 0440 0450 0500 0670  
 0400 0440 0450 0500 0670  
 0600 0370 0390 0440 0620  
 0800 0750 0800 0960 1410  
 = ABV =  
 VVVVV PROMRCh = 21 10 =  
 1000 0910 0960 1120 1610  
 1200 1030 1080 1240 1740  
 1400 1040 1080 1230 1710  
 1600 1040 1090 0950 1760  
 1800 0920 0950 1090 1520  
 2000 0630 0660 0750 1040  
 2200 0450 0470 0520 0710  
 2400 0440 0440 0490 0650  
 0200 0440 0450 0500 0670  
 0400 0440 0450 0500 0670  
 0600 0370 0390 0440 0620  
 0800 0750 0800 0960 1410  
 = AR

**4735 kHz, 26-10, 0700 UTC**

VVVVV PROMRCh = 2610 =  
 1000 0900 0950 1120 1600  
 1200 1030 1070 1200 1740  
 1400 1040 1080 1230 1710  
 1600 1030 1080 1240 1750  
 1800 0890 0930 1070 1480  
 2000 0610 0630 0720 1010  
 2200 0440 0460 0520 0700  
 2400 0430 0440 0490 0650  
 2200 0440 0450 0500 0660  
 0400 0440 0450 0500 0670  
 0600 0360 0380 0440 0610  
 0800 0750 0790 0950 1400  
 = ABV =  
 VVVVV PROMRCh = 2610 =  
 1000 0900 0950 1120 1600  
 1200 1030 1070 1200 1740  
 1400 1040 1080 1230 1710  
 1600 1030 1080 1240 1750  
 1800 0890 0930 1070 1480  
 2000 0610 0630 0720 1010  
 2200 0440 0460 0520 0700  
 2400 0430 0440 0490 0650  
 2200 0440 0450 0500 0660  
 0400 0440 0450 0500 0670  
 0600 0360 0380 0440 0610  
 0800 0750 0790 0950 1400  
 = AR

**4735 kHz, 23-10, 0700 UTC**

VVVVVV PROMRCh = 2310 =  
 1000 0910 0950 1120 1610  
 1200 1030 1070 1240 1740  
 1400 1040 1080 1230 1710  
 1600 1030 1080 1240 1750  
 1800 0910 0950 1080 1510  
 2000 0630 0650 0740 2040  
 2200 0450 0470 0520 0700  
 0000 0440 0450 0490 0650  
 0200 0440 0450 0500 0670  
 0400 0440 0450 0500 0670  
 0600 0370 0390 0440 0620  
 0800 0750 0800 0960 1400  
 = ABV  
 VVVVVV PROMRCh = 2310 =  
 1000 0910 0950 1120 1610  
 1200 1030 1070 1240 1740  
 1400 1040 1080 1230 1710  
 1600 1030 1080 1240 1750  
 1800 0910 0950 1080 1510  
 2000 0630 0650 0740 2040  
 2200 0450 0470 0520 0700  
 0000 0440 0450 0490 0650  
 0200 0440 0450 0500 0670  
 0400 0440 0450 0500 0670  
 0600 0370 0390 0440 0620  
 0800 0750 0800 0960 1400  
 = AR

**4735 kHz, 27-10, 0700 UTC**

VVVVV PROMRCh = 27 10 =  
 1000 0890 0940 1100 1590  
 1200 1020 1070 1230 1730  
 1400 1030 1060 1220 1690  
 1600 1030 1070 1240 1740  
 1800 0880 0920 1050 1740  
 2000 0590 0620 0710 0990  
 2200 0440 0450 0510 0690  
 2400 0430 0440 0490 0640  
 0200 0430 0440 0490 0650  
 0400 0430 0440 0500 0660  
 0600 0360 0380 0430 0610  
 0800 0740 0790 0950 1390  
 = ABV =  
 VVVVV PROMRCh = 27 10 =  
 1000 0890 0940 1100 1590  
 1200 1020 1070 1230 1730  
 1400 1030 1060 1220 1690  
 1600 1030 1070 1240 1740  
 1800 0880 0920 1050 1740  
 2000 0590 0620 0710 0990  
 2200 0440 0450 0510 0690  
 2400 0430 0440 0490 0640  
 0200 0430 0440 0490 0650  
 0400 0430 0440 0500 0660  
 0600 0360 0380 0430 0610  
 0800 0740 0790 0950 1390  
 = AR AK

**4735 kHz, 24-10, 0700 UTC**

VVVVV = PROMRCh = 2410 =  
 1000 0910 0950 1120 1610  
 1200 1030 1030 1240 1740  
 1400 1040 1080 1230 1720  
 1600 1040 1080 1250 17E0  
 1800 0910 0940 1080 1510  
 2000 0620 0650 0740 1030  
 2200 0450 0470 0520 0710  
 0000 0440 0450 0500 0650  
 0200 0440 0450 0500 0670  
 0400 0440 0450 0500 0670  
 0600 0370 0380 0440 0620  
 0800 0750 0800 0960 1400  
 = ABV =  
 VVVVV = PROMRCh = 2410 =  
 1000 0910 0950 1120 1610  
 1200 1030 1030 1240 1740  
 1400 1040 1080 1230 1720  
 1600 1040 1080 1250 17E0  
 1800 0910 0940 1080 1510  
 2000 0620 0650 0740 1030  
 2200 0450 0470 0520 0710  
 0000 0440 0450 0500 0650  
 0200 0440 0450 0500 0670  
 0400 0440 0450 0500 0670  
 0600 0370 0380 0440 0620  
 0800 0750 0800 0960 1400  
 = AR

**4735 kHz, 28-10, 0700 UTC**

VVVVV PROMRCh = 2810 =  
 1000 0890 0940 1100 1580  
 1200 1010 1060 1220 1710  
 1400 1020 1060 1210 1690  
 1600 1020 1070 1260 1740  
 1800 0870 0910 1040 1460  
 2000 0590 0620 0710 0990  
 2200 0430 0450 0500 0680  
 2400 0430 0490 0490 0640  
 0200 0430 0440 0490 0650  
 0400 0430 0440 0490 0660  
 0600 0360 0370 0430 0610  
 0800 0730 0780 0940 1380  
 = ABV  
 VVVVV PROMRCh = 2810 =  
 1000 0890 0940 1100 1580  
 1200 1010 1060 1220 1710  
 1400 1020 1060 1210 1690  
 1600 1020 1070 1260 1740  
 1800 0870 0910 1040 1460  
 2000 0590 0620 0710 0990  
 2200 0430 0450 0500 0680  
 2400 0430 0490 0490 0640  
 0200 0430 0440 0490 0650  
 0400 0430 0440 0490 0660  
 0600 0360 0370 0430 0610  
 0800 0730 0780 0940 1380  
 = AR

**4735 kHz, 29-10, 0700 UTC**  
VVV VVV PROMRCh = 29 10 =  
1000 0880 0930 1090 1570  
1200 1010 1050 1200 1710  
1400 1010 1060 1200 1680  
1600 1020 1060 1230 1730  
1800 0860 0890 1030 1440  
2000 0580 0610 0700 0970  
2200 0420 0440 0500 0680  
0000 0420 0430 0480 0640  
0200 0430 0440 0490 0650  
0400 0430 0440 0490 0660  
0600 0350 0370 0430 0600  
0800 0730 0780 0940 1380  
= ABV  
VVV VVV PROMRCh = 29 10 =  
1000 0880 0930 1090 1570  
1200 1010 1050 1200 1710  
1400 1010 1060 1200 1680  
1600 1020 1060 1230 1730  
1800 0860 0890 1030 1440  
2000 0580 0610 0700 0970  
2200 0420 0440 0500 0680  
0000 0420 0430 0480 0640  
0200 0430 0440 0490 0650  
0400 0430 0440 0490 0660  
0600 0350 0370 0430 0600  
0800 0730 0780 0940 1380  
= AR

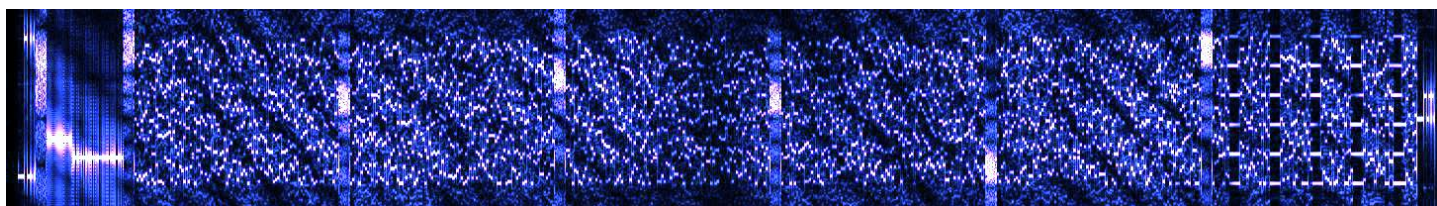
**4735 kHz, 30-10, 0800 UTC  
(changed to winter time)**  
VVVVV PROMRCh = 30 10 =  
1000 0880 0920 1090 1570  
1200 1000 1040 1210 1700  
1400 1000 1040 1200 1670  
1600 1000 1050 1210 1710  
1800 0840 0880 1020 1430  
2000 0570 0600 0680 0960  
2200 0420 0440 0490 0670  
2400 0420 0430 0480 0640  
0200 0420 0430 0480 0640  
0400 0430 0440 0490 0650  
0600 0350 0370 0430 0600  
0800 0730 0770 0930 1370  
= ABV =  
VVVVV PROMRCh = 30 10 =  
1000 0880 0920 1090 1570  
1200 1000 1040 1210 1700  
1400 1000 1040 1200 1670  
1600 1000 1050 1210 1710  
1800 0840 0880 1020 1430  
2000 0570 0600 0680 0960  
2200 0420 0440 0490 0670  
2400 0420 0430 0480 0640  
0200 0420 0430 0480 0640  
0400 0430 0440 0490 0650  
0600 0350 0370 0430 0600  
0800 0730 0770 0930 1370  
= AR

**4735 kHz, 31-10, 0800 UTC**  
VVV VVV PROMRCh = 31 10 =  
1000 0870 0920 1080 1560  
1200 1000 1050 1210 1700  
1400 0990 1040 1190 1660  
1600 0990 1040 1200 1700  
1800 0830 0870 1010 1410  
2000 0560 0590 0680 0960  
2200 0420 0430 0490 0670  
0000 0420 0430 0480 0630  
0200 0420 0430 0480 0640  
0400 0420 0440 0490 0650  
0600 0350 0370 0430 0600  
0800 0720 0770 0930 1370  
= ABV  
VVV VVV PROMRCh = 31 10 =  
1000 0870 0920 1080 1560  
1200 1000 1050 1210 1700  
1400 0990 1040 1190 1660  
1600 0990 1040 1200 1700  
1800 0830 0870 1010 1410  
2000 0560 0590 0680 0960  
2200 0420 0430 0490 0670  
0000 0420 0430 0480 0630  
0200 0420 0430 0480 0640  
0400 0420 0440 0490 0650  
0600 0350 0370 0430 0600  
0800 0720 0770 0930 1370  
= AR

## DIGITAL MODES

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

M42 – training sessions



The Russians broadcasted a large number of digital messages in October, using various modes. This was most likely an large exercise. I thank the Priyom Team, and especially PY, VSh, Linkz and AB for the logs. The comments come from PY.

9142 kHz, 10-10, 1200 UTC, 20Bd 16FSK+250Bd BPSK bursts  
10256 kHz, 10-10, 1210 UTC, 20Bd 16FSK+250Bd BPSK bursts  
11431 kHz, 10-10, 1220 UTC, 20Bd 16FSK+250Bd BPSK bursts  
12192 kHz, 10-10, 1230 UTC, 20Bd 16FSK+250Bd BPSK bursts  
13439 kHz, 10-10, 1240 UTC, 20Bd 16FSK+250Bd BPSK bursts  
14712 kHz, 10-10, 1240 UTC, 20Bd 16FSK+250Bd BPSK bursts

9142 kHz, 10-10, 1300 UTC, 20Bd 16FSK+250Bd BPSK bursts  
10256 kHz, 10-10, 1310 UTC, 20Bd 16FSK+250Bd BPSK bursts  
11431 kHz, 10-10, 1320 UTC, 20Bd 16FSK+250Bd BPSK bursts  
12192 kHz, 10-10, 1330 UTC, 20Bd 16FSK+250Bd BPSK bursts  
13439 kHz, 10-10, 1340 UTC, 20Bd 16FSK+250Bd BPSK bursts  
14712 kHz, 10-10, 1350 UTC, 20Bd 16FSK+250Bd BPSK bursts

9142 kHz, 10-10, 1400 UTC, 20Bd 16FSK+250Bd BPSK bursts  
10256 kHz, 10-10, 1410 UTC, 20Bd 16FSK+250Bd BPSK bursts  
11431 kHz, 10-10, 1420 UTC, 20Bd 16FSK+250Bd BPSK bursts  
12192 kHz, 10-10, 1430 UTC, 20Bd 16FSK+250Bd BPSK bursts  
13439 kHz, 10-10, 1440 UTC, 20Bd 16FSK+250Bd BPSK bursts  
14712 kHz, 10-10, 1450 UTC, 20Bd 16FSK+250Bd BPSK bursts

12192 kHz, 11-10, 0640 UTC, 8x62.5Bd QPSK+250Bd BPSK bursts  
13439 kHz, 11-10, 0645 UTC, 8x62.5Bd QPSK+250Bd BPSK bursts  
14712 kHz, 11-10, 0650 UTC, 8x62.5Bd QPSK+250Bd BPSK bursts

12192 kHz, 11-10, 0700 UTC, 5x10Bd 16FSK+250Bd BPSK bursts  
13439 kHz, 11-10, 0705 UTC, 5x10Bd 16FSK+250Bd BPSK bursts  
14712 kHz, 11-10, 0710 UTC, 5x10Bd 16FSK+250Bd BPSK bursts

12192 kHz, 11-10, 0720 UTC, 8x62.5Bd QPSK+250Bd BPSK bursts  
13439 kHz, 11-10, 0725 UTC, 8x62.5Bd QPSK+250Bd BPSK bursts  
14712 kHz, 11-10, 0720 UTC, 8x62.5Bd QPSK+250Bd BPSK bursts

12192 kHz, 11-10, 0740 UTC, 10Bd 16FSK+250Bd BPSK bursts  
13439 kHz, 11-10, 0745 UTC, 10Bd 16FSK+250Bd BPSK bursts  
14712 kHz, 11-10, 0750 UTC, 10Bd 16FSK+250Bd BPSK bursts

12192 kHz, 11-10, 0800 UTC, 40Bd 16FSK+250Bd BPSK bursts  
13439 kHz, 11-10, 0805 UTC, 40Bd 16FSK+250Bd BPSK bursts  
14712 kHz, 11-10, 0810 UTC, 40Bd 16FSK+250Bd BPSK bursts

12192 kHz, 11-10, 0830 UTC, 10Bd 16FSK+250Bd BPSK bursts  
13439 kHz, 11-10, 0835 UTC, 10Bd 16FSK+250Bd BPSK bursts  
14712 kHz, 11-10, 0840 UTC, 10Bd 16FSK+250Bd BPSK bursts

12192 kHz, 11-10, 0900 UTC, 40Bd 16FSK+250Bd BPSK bursts  
13439 kHz, 11-10, 0910 UTC, 40Bd 16FSK+250Bd BPSK bursts  
14712 kHz, 11-10, 0920 UTC, 40Bd 16FSK+250Bd BPSK bursts

9142 kHz, 11-10, 1020 UTC, 5x10Bd 16FSK+250Bd BPSK bursts  
10256 kHz, 11-10, 1030 UTC, 5x10Bd 16FSK+250Bd BPSK bursts  
12192 kHz, 11-10, 1050 UTC, 5x10Bd 16FSK+250Bd BPSK bursts  
13964 kHz, 11-10, 1100 UTC, 5x10Bd 16FSK+250Bd BPSK bursts  
14712 kHz, 11-10, 1110 UTC, 5x10Bd 16FSK+250Bd BPSK bursts

12192 kHz, 11-10, 1140 UTC, 8x62.5Bd QPSK+250Bd BPSK bursts  
13964 kHz, 11-10, 1145 UTC, 8x62.5Bd QPSK+250Bd BPSK bursts  
14712 kHz, 11-10, 1150 UTC, 8x62.5Bd QPSK+250Bd BPSK bursts

12192 kHz, 11-10, 1210 UTC, 8x62.5Bd QPSK+250Bd BPSK bursts  
13964 kHz, 11-10, 1215 UTC, 8x62.5Bd QPSK+250Bd BPSK bursts  
14712 kHz, 11-10, 1220 UTC, 8x62.5Bd QPSK+250Bd BPSK bursts

12192 kHz, 11-10, 1235 UTC, 40Bd 16FSK+250Bd BPSK bursts  
13439 kHz, 11-10, 1240 UTC, 40Bd 16FSK+250Bd BPSK bursts  
14712 kHz, 11-10, 1245 UTC, 40Bd 16FSK+250Bd BPSK bursts

9142 kHz, 11-10, 1300 UTC, 10Bd 16FSK+250Bd BPSK bursts  
10256 kHz, 11-10, 1305 UTC, 10Bd 16FSK+250Bd BPSK bursts  
11431 kHz, 11-10, 1310 UTC, 10Bd 16FSK+250Bd BPSK bursts

9142 kHz, 11-10, 1350 UTC, 10Bd 16FSK+250Bd BPSK bursts  
10256 kHz, 11-10, 1355 UTC, 10Bd 16FSK+250Bd BPSK bursts  
11431 kHz, 11-10, 1400 UTC, 10Bd 16FSK+250Bd BPSK bursts  
12192 kHz, 11-10, 1405 UTC, 10Bd 16FSK+250Bd BPSK bursts  
13964 kHz, 11-10, 1410 UTC, 10Bd 16FSK+250Bd BPSK bursts



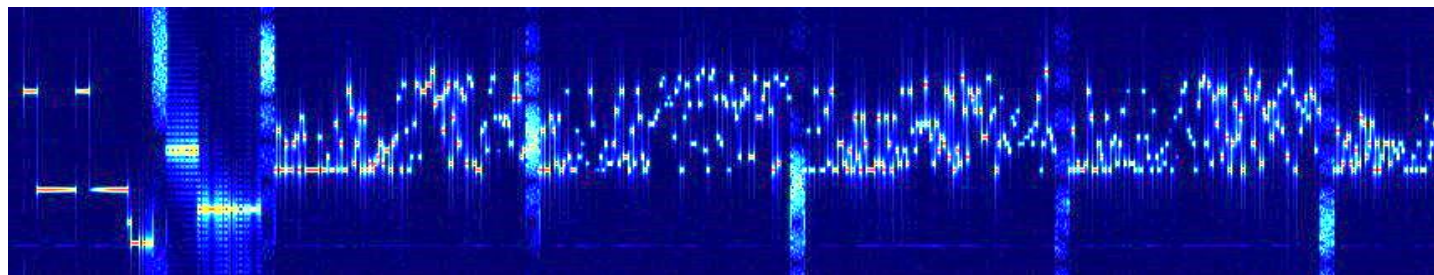
14712 kHz, 11-10, 1415 UTC, 10Bd 16FSK+250Bd BPSK bursts

11431 kHz, 12-10, 0635 UTC, 20Bd 16FSK+250Bd BPSK bursts

11431 kHz, 12-10, 0740 UTC, 40Bd 16FSK+250Bd BPSK bursts (picture below)

12192 kHz, 12-10, 0745 UTC, 40Bd 16FSK+250Bd BPSK bursts

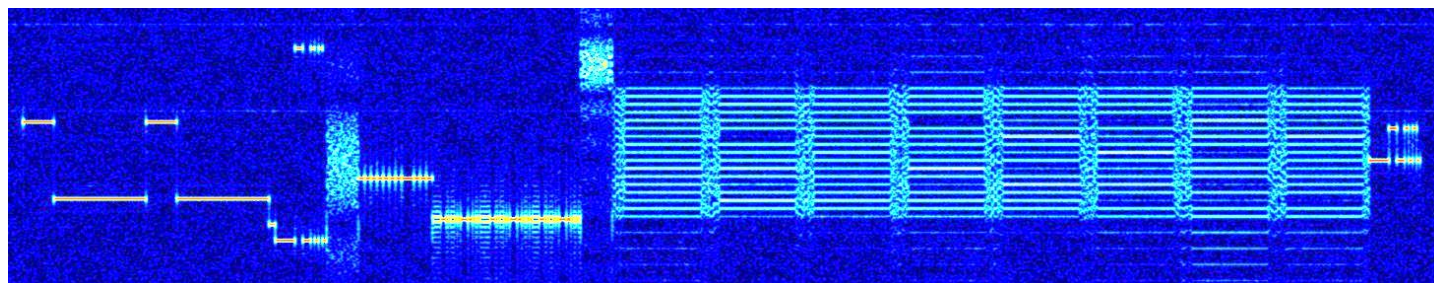
13964 kHz, 12-10, 0750 UTC, a few beeps, possibly TX failure during callup of Russian 7 experimental mode



11431 kHz, 12-10, 0800 UTC, 8 secs transmitter noise

12192 kHz, 12-10, 0805 UTC, 8x62.5Bd QPSK+250Bd BPSK bursts (picture below)

13964 kHz, 12-10, 0810 UTC, 8x62.5Bd QPSK+250Bd BPSK bursts



11431 kHz, 12-10, 0825 UTC, 40Bd 16FSK+250Bd BPSK bursts

12192 kHz, 12-10, 0830 UTC, 40Bd 16FSK+250Bd BPSK bursts

13964 kHz, 12-10, 0835 UTC, 40Bd 16FSK+250Bd BPSK bursts

11431 kHz, 12-10, 0900 UTC, 8x62.5Bd QPSK+250Bd BPSK bursts

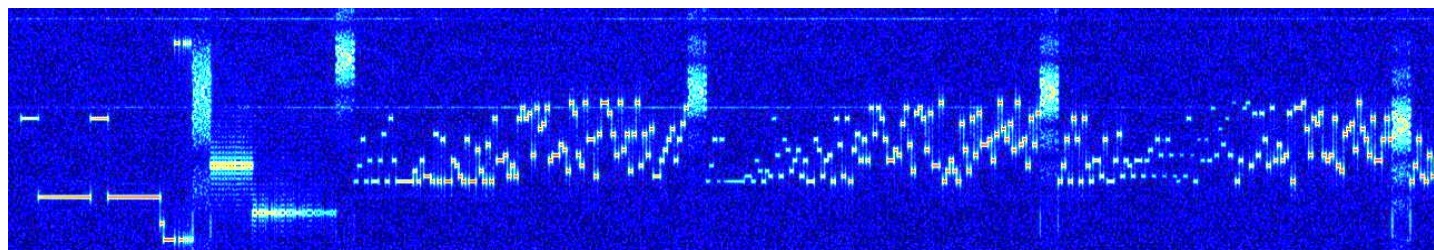
12192 kHz, 12-10, 0905 UTC, 8x62.5Bd QPSK+250Bd BPSK bursts

13964 kHz, 12-10, 0910 UTC, 8x62.5Bd QPSK+250Bd BPSK bursts

9142 kHz, 12-10, 0930 UTC, 10Bd 16FSK+250Bd BPSK bursts (picture below)

10256 kHz, 12-10, 0935 UTC, 10Bd 16FSK+250Bd BPSK bursts

11574 kHz, 12-10, 0940 UTC, 10Bd 16FSK+250Bd BPSK bursts



10256 kHz, 12-10, 0935 UTC, 10Bd 16FSK+250Bd BPSK bursts

11574 kHz, 12-10, 0940 UTC, 10Bd 16FSK+250Bd BPSK bursts

12192 kHz, 12-10, 0945 UTC, 10Bd 16FSK+250Bd BPSK bursts

13964 kHz, 12-10, 0950 UTC, 10Bd 16FSK+250Bd BPSK bursts

14712 kHz, 12-10, 0955 UTC, 10Bd 16FSK+250Bd BPSK bursts

11431 kHz, 12-10, 1000 UTC, 8x62.5Bd QPSK+250Bd BPSK bursts

12192 kHz, 12-10, 1005 UTC, 8x62.5Bd QPSK+250Bd BPSK bursts

13964 kHz, 12-10, 1010 UTC, 8x62.5Bd QPSK+250Bd BPSK bursts

9283 kHz, 12-10, 1110 UTC, 10Bd 16FSK+250Bd BPSK bursts

10427 kHz, 12-10, 1115 UTC, 10Bd 16FSK+250Bd BPSK bursts

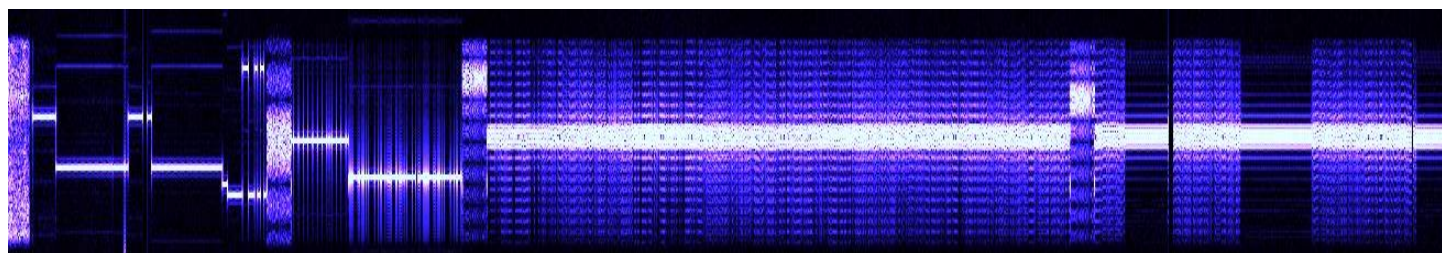
11574 kHz, 12-10, 1120 UTC, 10Bd 16FSK+250Bd BPSK bursts  
12192 kHz, 12-10, 1125 UTC, 10Bd 16FSK+250Bd BPSK bursts  
13964 kHz, 12-10, 1130 UTC, 10Bd 16FSK+250Bd BPSK bursts  
14712 kHz, 12-10, 1135 UTC, 10Bd 16FSK+250Bd BPSK bursts

11574 kHz, 12-10, 1150 UTC, 10Bd 16FSK+250Bd BPSK bursts  
12192 kHz, 12-10, 1155 UTC, 10Bd 16FSK+250Bd BPSK bursts  
13964 kHz, 12-10, 1200 UTC, 10Bd 16FSK+250Bd BPSK bursts

9283 kHz, 12-10, 1245 UTC, 10Bd 16FSK+250Bd BPSK bursts  
10427 kHz, 12-10, 1250 UTC, 10Bd 16FSK+250Bd BPSK bursts  
11574 kHz, 12-10, 1255 UTC, 10Bd 16FSK+250Bd BPSK bursts  
12192 kHz, 12-10, 1300 UTC, 10Bd 16FSK+250Bd BPSK bursts  
13964 kHz, 12-10, 1305 UTC, 10Bd 16FSK+250Bd BPSK bursts  
14712 kHz, 12-10, 1310 UTC, 10Bd 16FSK+250Bd BPSK bursts

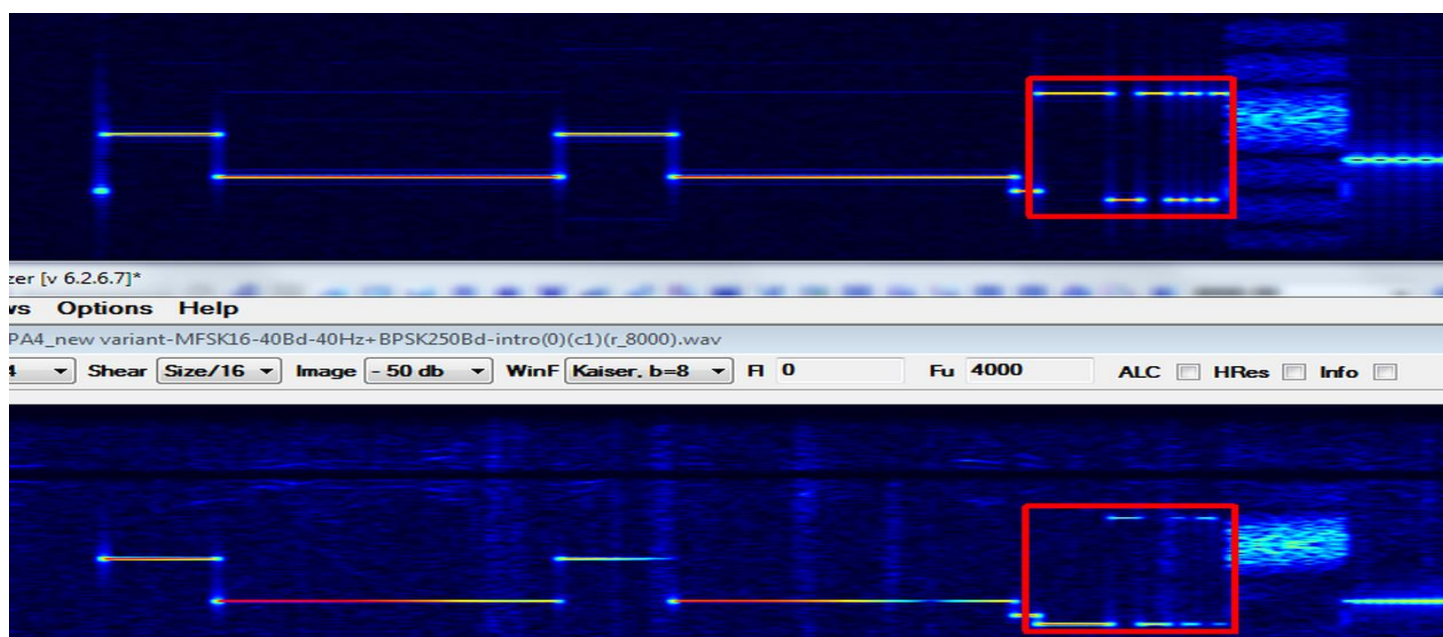
9283 kHz, 12-10, 1330 UTC, 10Bd 16FSK+250Bd BPSK bursts  
10427 kHz, 12-10, 1335 UTC, 10Bd 16FSK+250Bd BPSK bursts  
11574 kHz, 12-10, 1340 UTC, 10Bd 16FSK+250Bd BPSK bursts  
12192 kHz, 12-10, 1345 UTC, 10Bd 16FSK+250Bd BPSK bursts  
13964 kHz, 12-10, 1350 UTC, 10Bd 16FSK+250Bd BPSK bursts  
14712 kHz, 12-10, 1355 UTC, 10Bd 16FSK+250Bd BPSK bursts

9283 kHz, 12-10, 1400 UTC, 2x62.5Bd QPSK+250Bd BPSK bursts (picture below)  
10427 kHz, 12-10, 1405 UTC, 2x62.5Bd QPSK+250Bd BPSK bursts  
11574 kHz, 12-10, 1410 UTC, 2x62.5Bd QPSK+250Bd BPSK bursts  
12192 kHz, 12-10, 1415 UTC, 2x62.5Bd QPSK+250Bd BPSK bursts  
13964 kHz, 12-10, 1420 UTC, 2x62.5Bd QPSK+250Bd BPSK bursts  
14712 kHz, 12-10, 1425 UTC, 2x62.5Bd QPSK+250Bd BPSK bursts

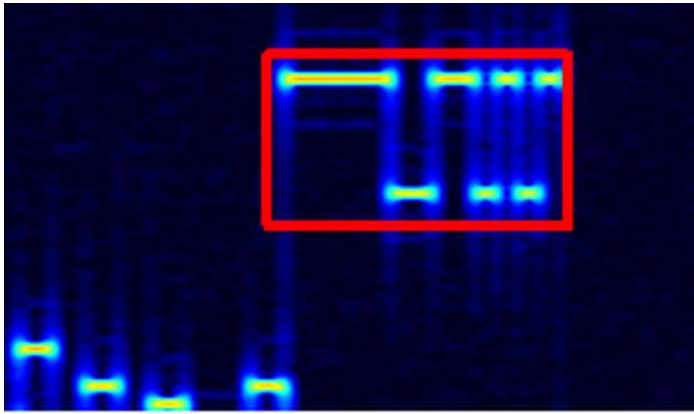


Note by PY: Among the following digital transmissions, I noticed that some diverged from exact known waveforms for their modes. In particular, quick alternating tones in the intro and outro were reversed.

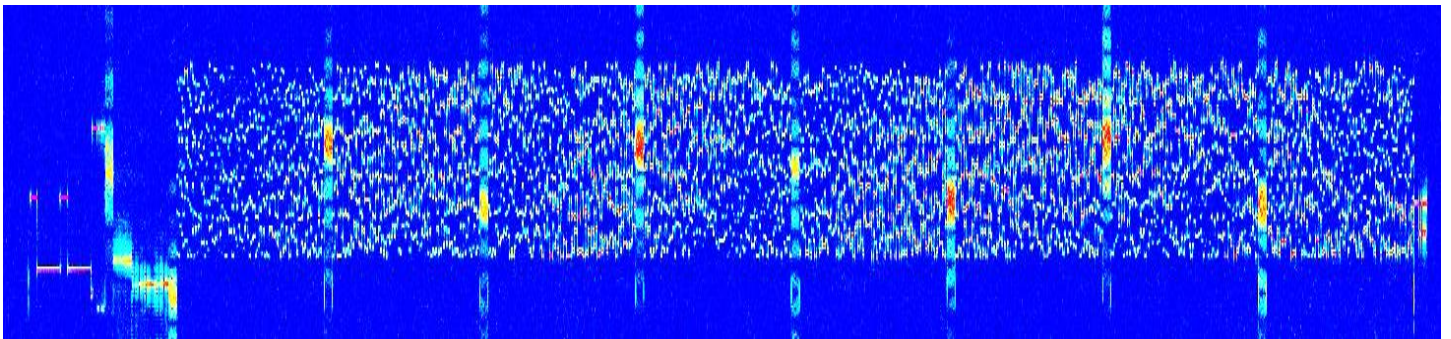
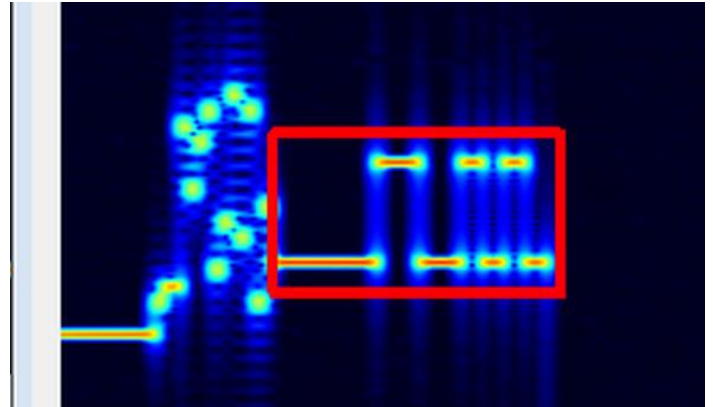
Intro picture: new waveform above, and classic known waveform below. / Outro picture: new waveform left, classic waveform right.







Or for example, the 16FSK + 250Bd BPSK bursts mode features 16FSK with 40Hz shift normally spreading from 1320Hz to 1920Hz, but this new waveform uses a lower range, from 800Hz to 1400Hz instead. Those differences mentioned may not be exhaustive. Such transmissions will be tagged in logs below as "alternate waveform".



9283 kHz, 13-10, 0845 UTC, 5x10Bd 16FSK+250Bd BPSK bursts, alternate waveform (1m35s)  
 10427 kHz, 13-10, 0850 UTC, 5x10Bd 16FSK+250Bd BPSK bursts, alternate waveform (1m35s)  
 11574 kHz, 13-10, 0855 UTC, 5x10Bd 16FSK+250Bd BPSK bursts, alternate waveform (1m35s)

10427 kHz, 13-10, 1100 UTC, 5x10Bd 16FSK+250Bd BPSK bursts, alternate waveform (1m24s)  
 11574 kHz, 13-10, 1105 UTC, 5x10Bd 16FSK+250Bd BPSK bursts, alternate waveform (1m24s)

11574 kHz, 13-10, 1135 UTC, 5x10Bd 16FSK+250Bd BPSK bursts, alternate waveform (2m05s)

9283 kHz, 13-10, 1200 UTC, 5x10Bd 16FSK+250Bd BPSK bursts (2m44s)  
 10427 kHz, 13-10, 1210 UTC, 5x10Bd 16FSK+250Bd BPSK bursts (2m44s)  
 11574 kHz, 13-10, 1220 UTC, 5x10Bd 16FSK+250Bd BPSK bursts (2m44s)  
 12192 kHz, 13-10, 1230 UTC, 5x10Bd 16FSK+250Bd BPSK bursts (2m44s)  
 13964 kHz, 13-10, 1240 UTC, 5x10Bd 16FSK+250Bd BPSK bursts (2m44s)  
 14712 kHz, 13-10, 1250 UTC, 5x10Bd 16FSK+250Bd BPSK bursts (2m44s)

These Russian 7 experiments have been using ascending frequency cycles, except on October 14th when they used descending frequency cycles instead. On October 24th, they mixed some ascending and some descending frequency cycles.

The intro section of these experimental modes contains a succession of various tones and PSK segments. In that day's transmissions, some of these intro PSK segments used subcarrier offsets at a noticeably different pitch than usual.

14712 kHz, 14-10, 0700 UTC, PSK, 2-minute two-tone callup (2m28s)  
 13964 kHz, 14-10, 0705 UTC, PSK, 2-minute two-tone callup (2m28s)  
 12192 kHz, 14-10, 0710 UTC, PSK, 2-minute two-tone callup (2m28s)

14712 kHz, 14-10, 0720 UTC, PSK, 2-minute two-tone callup (2m16s)  
 13964 kHz, 14-10, 0725 UTC, PSK, 2-minute two-tone callup (2m16s)  
 12192 kHz, 14-10, 0730 UTC, PSK, 2-minute two-tone callup (2m16s)

14712 kHz, 14-10, 0740 UTC, PSK, No callup (16s)  
13964 kHz, 14-10, 0745 UTC, PSK, No callup (16s)  
12192 kHz, 14-10, 0750 UTC, PSK, No callup (16s)

14712 kHz, 14-10, 0800 UTC, PSK, 2-minute two-tone callup (2m16s)  
13964 kHz, 14-10, 0805 UTC, PSK, 2-minute two-tone callup (2m16s)  
12192 kHz, 14-10, 0810 UTC, PSK, 2-minute two-tone callup (2m16s)

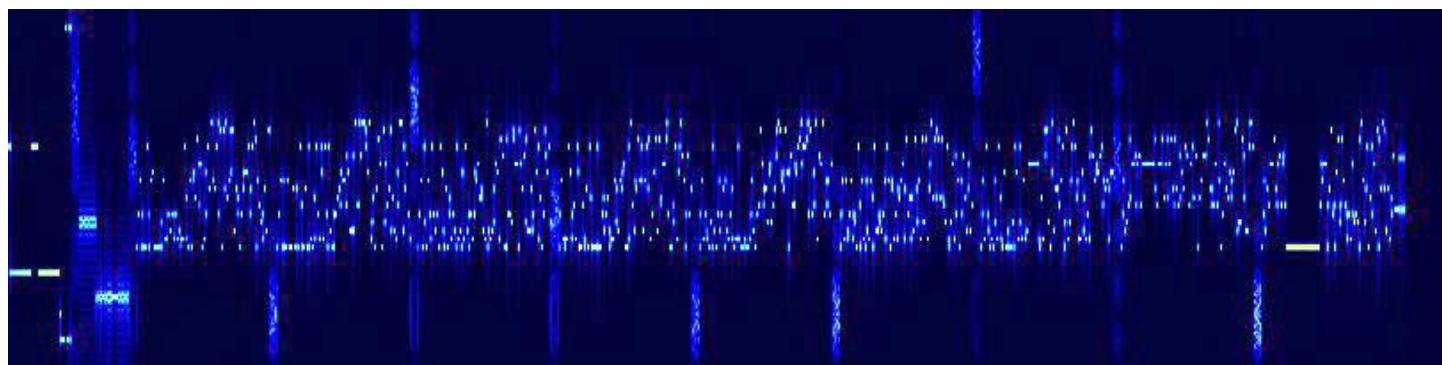
14712 kHz, 14-10, 0820 UTC, PSK, No callup (16s)  
13964 kHz, 14-10, 0825 UTC, PSK, No callup (16s)  
12192 kHz, 14-10, 0830 UTC, PSK, No callup (16s)

14712 kHz, 14-10, 0840 UTC, PSK+PSK bursts. Alternate waveform (49s)  
13964 kHz, 14-10, 0845 UTC, Nil  
12192 kHz, 14-10, 0849 UTC, USB. Carrier for 17s, no transmission following  
11431 kHz, 14-10, 0855 UTC, USB. 5-second two-tone callup cut off at 3s  
10643 kHz, 14-10, 0900 UTC, PSK+PSK bursts. Alternate waveform (49s)  
9142 kHz, 14-10, 0905 UTC, Nil

14712 kHz, 14-10, 1020 UTC, PSK+PSK bursts. Alternate waveform (1m02s)  
13964 kHz, 14-10, 1025 UTC, PSK+PSK bursts. Alternate waveform (1m02s)  
12192 kHz, 14-10, 1030 UTC, PSK+PSK bursts. Alternate waveform (1m02s)  
11431 kHz, 14-10, 1035 UTC, PSK+PSK bursts. Alternate waveform (1m02s)  
10643 kHz, 14-10, 1040 UTC, PSK+PSK bursts. Alternate waveform (1m02s)  
9142 kHz, 14-10, 1045 UTC, PSK+PSK bursts. Alternate waveform (1m02s)

14712 kHz, 14-10, 1100 UTC, 10Bd 16FSK+250Bd BPSK bursts. Alternate waveform (1m52s)  
13964 kHz, 14-10, 1104 UTC, USB, Carrier for 17s, no transmission following  
12192 kHz, 14-10, 1105 UTC, USB, Carrier for 17s  
12192 kHz, 14-10, 1106 UTC, USB, 1000Hz test tone  
12192 kHz, 14-10, 1109 UTC, USB, 1000Hz test tone  
12192 kHz, 14-10, 1110 UTC, 10Bd 16FSK+250Bd BPSK bursts. Alternate waveform (1m52s)  
11431 kHz, 14-10, 1115 UTC, 10Bd 16FSK+250Bd BPSK bursts. Alternate waveform (1m52s)  
10643 kHz, 14-10, 1120 UTC, 10Bd 16FSK+250Bd BPSK bursts. Alternate waveform (1m52s)  
9142 kHz, 14-10, 1125 UTC, 10Bd 16FSK+250Bd BPSK bursts. Alternate waveform (1m52s)

14712 kHz, 14-10, 1140 UTC, 10Bd 16FSK+250Bd BPSK bursts (1m42s)  
13964 kHz, 14-10, 1150 UTC, 10Bd 16FSK+250Bd BPSK bursts (1m42s)  
12192 kHz, 14-10, 1152 UTC, USB. Carrier for 17s no transmission following



14712 kHz, 14-10, 1200 UTC, 10Bd 16FSK+250Bd BPSK bursts. Alternate waveform cut off at 2m31s without outro  
14712 kHz, 14-10, 1206 UTC, USB. Carrier for 19s

14712 kHz, 14-10, 1210 UTC, 10Bd 16FSK+250Bd BPSK bursts. Alternate waveform (1m52s)  
13964 kHz, 14-10, 1215 UTC, 10Bd 16FSK+250Bd BPSK bursts. Alternate waveform (1m52s)  
12192 kHz, 14-10, 1220 UTC, 10Bd 16FSK+250Bd BPSK bursts. Alternate waveform (1m52s). Cut off at 14s without outro  
(too short to include PSK)

9338 kHz, 18-10, 0800 UTC, 10Bd 16FSK+250Bd BPSK bursts (6m15s)  
10427 kHz, 18-10, 0810 UTC, 10Bd 16FSK+250Bd BPSK bursts (6m15s)  
11431 kHz, 18-10, 0820 UTC, 10Bd 16FSK+250Bd BPSK bursts (6m15s)

9338 kHz, 18-10, 0830 UTC, 10Bd 16FSK+250Bd BPSK bursts (6m56s)  
10427 kHz, 18-10, 0840 UTC, 10Bd 16FSK+250Bd BPSK bursts (6m56s)  
11431 kHz, 18-10, 0850 UTC, 10Bd 16FSK+250Bd BPSK bursts (6m56s)

9338 kHz, 19-10, 0740 UTC, 10Bd 16FSK+250Bd BPSK bursts. Cut off at 3m50s without outro  
10427 kHz, 19-10, 0744 UTC, USB. Carrier for 15 seconds  
10427 kHz, 19-10, 0745 UTC, USB. TX noise for 2 seconds no transmission  
11431 kHz, 19-10, 0745 UTC, USB. Carrier for 12 seconds  
11431 kHz, 19-10, 0750 UTC, 10Bd 16FSK+250Bd BPSK bursts (3m34s)

9338 kHz, 18-10, 0800 UTC, 10Bd 16FSK+250Bd BPSK bursts

9338 kHz, 19-10, 0840 UTC, 10Bd 16FSK+250Bd BPSK bursts (3m34s)  
10427 kHz, 19-10, 0845 UTC, 10Bd 16FSK+250Bd BPSK bursts (3m34s)  
11431 kHz, 19-10, 0850 UTC, 10Bd 16FSK+250Bd BPSK bursts (3m34s)

9338 kHz, 20-10, 0740 UTC, 10Bd 16FSK+250Bd BPSK bursts (3m34s)  
10427 kHz, 20-10, 0745 UTC, 10Bd 16FSK+250Bd BPSK bursts (3m34s)  
11431 kHz, 20-10, 0750 UTC, 10Bd 16FSK+250Bd BPSK bursts (3m34s)

9338 kHz, 20-10, 0840 UTC, 10Bd 16FSK+250Bd BPSK bursts (3m34s)  
10427 kHz, 20-10, 0845 UTC, 10Bd 16FSK+250Bd BPSK bursts (3m34s)  
11431 kHz, 20-10, 0845 UTC, 10Bd 16FSK+250Bd BPSK bursts (3m34s)

9142 kHz, 24-10, 1120 UTC. Nil  
10256 kHz, 24-10, 1122 UTC, USB. Carrier for 19s, 1123z: 1000Hz test tone + 5-second two-tone callup cut off at 3s  
11431 kHz, 24-10, 1125 UTC, USB. Carrier for 17s  
11431 kHz, 24-10, 1130 UTC, 5x10Bd 16FSK+250Bd BPSK bursts. Alternate waveform (22s, too short to include PSK bursts)

9142 kHz, 24-10, 1155 UTC, 5x10Bd 16FSK+250Bd BPSK bursts (22s, too short to include PSK bursts)  
10256 kHz, 24-10, 1200 UTC, 5x10Bd 16FSK+250Bd BPSK bursts (22s, too short to include PSK bursts)  
11431 kHz, 24-10, 1205 UTC, 5x10Bd 16FSK+250Bd BPSK bursts (22s, too short to include PSK bursts)

9142 kHz, 24-10, 1220 UTC, 5x10Bd 16FSK+250Bd BPSK bursts (1m13s)  
10256 kHz, 24-10, 1225 UTC, 5x10Bd 16FSK+250Bd BPSK bursts (1m13s)  
11431 kHz, 24-10, 1230 UTC, 5x10Bd 16FSK+250Bd BPSK bursts (1m13s)

14647 kHz, 24-10, 1245 UTC, PSK (25s)  
13526 kHz, 24-10, 1250 UTC, PSK (25s)  
11431 kHz, 24-10, 1255 UTC, PSK (25s)

14647 kHz, 24-10, 1310 UTC, PSK+PSK bursts (50s)  
13526 kHz, 24-10, 1315 UTC, PSK+PSK bursts (50s)  
11431 kHz, 24-10, 1320 UTC, PSK+PSK bursts (50s)

9142 kHz, 24-10, 1335 UTC, 5x 10Bd 16FSK+250Bd BPSK bursts (3m24s)  
10256 kHz, 24-10, 1340 UTC, 5x 10Bd 16FSK+250Bd BPSK bursts (3m24s)  
11431 kHz, 24-10, 1345 UTC, 5x 10Bd 16FSK+250Bd BPSK bursts (3m24s)

9142 kHz, 24-10, 1400 UTC, 5x 10Bd 16FSK+250Bd BPSK bursts (22s, too short to include PSK burst)  
10256 kHz, 24-10, 1405 UTC, 5x 10Bd 16FSK+250Bd BPSK bursts (42s)  
11431 kHz, 24-10, 1410 UTC, 5x 10Bd 16FSK+250Bd BPSK bursts (42s)

14647 kHz, 24-10, 1435 UTC, PSK (42s) No callup  
13526 kHz, 24-10, 1440 UTC, PSK (42s) No callup  
11431 kHz, 24-10, 1445 UTC. Nil

9142 kHz, 25-10, 0800 UTC, 5x 10Bd 16FSK+250Bd BPSK bursts (1m12s)  
10256 kHz, 25-10, 0805 UTC, 5x 10Bd 16FSK+250Bd BPSK bursts (1m12s)  
11431 kHz, 25-10, 0810 UTC, 5x 10Bd 16FSK+250Bd BPSK bursts (1m12s)

11431 kHz, 25-10, 0825 UTC, 5x 10Bd 16FSK+250Bd BPSK bursts (1m43s)  
13526 kHz, 25-10, 0830 UTC, 5x 10Bd 16FSK+250Bd BPSK bursts (1m43s)  
14647 kHz, 25-10, 0835 UTC, 5x 10Bd 16FSK+250Bd BPSK bursts (1m43s)

11431 kHz, 25-10, 0850 UTC, PSK (1m19s) No callup  
13526 kHz, 25-10, 0855 UTC, PSK (1m19s) No callup  
14647 kHz, 25-10, 0900 UTC, PSK (1m19s) No callup

9142 kHz, 25-10, 1100 UTC, PSK (29s) No callup  
9338 kHz, 25-10, 1105 UTC, PSK (29s) No callup  
10256 kHz, 25-10, 1110 UTC, PSK (29s) No callup

9142 kHz, 25-10, 1125 UTC, PSK+PSK bursts (38s)  
9338 kHz, 25-10, 1130 UTC, PSK+PSK bursts (38s)  
10256 kHz, 25-10, 1135 UTC, PSK+PSK bursts (38s)

9142 kHz, 25-10, 1150 UTC, PSK (24s)  
9338 kHz, 25-10, 1155 UTC, PSK (24s)  
10256 kHz, 25-10, 1200 UTC, PSK (24s)

9142 kHz, 25-10, 1205 UTC, PSK (24s)  
10256 kHz, 25-10, 1210 UTC, PSK (24s)  
11431 kHz, 25-10, 1215 UTC, PSK (24s)

9142 kHz, 25-10, 1225 UTC, 5x10Bd 16FSK+250Bd BPSK bursts (1m12s)  
10256 kHz, 25-10, 1230 UTC, 5x10Bd 16FSK+250Bd BPSK bursts (1m12s)  
11431 kHz, 25-10, 1235 UTC, 5x10Bd 16FSK+250Bd BPSK bursts (1m12s)

9338 kHz, 26-10, 1300 UTC, PSK (25s)  
10427 kHz, 26-10, 1305 UTC, PSK (25s)  
11431 kHz, 26-10, 1310 UTC, PSK (25s)

Transmissions on October 28th started with unusual 4-transmission cycles. All cycles logged that day are complete to the best of my knowledge; pre-TX transmitter activity rules out any missed transmission before the beginning of these cycles.

8094 kHz, 27-10, 0740 UTC, 5x10Bd 16FSK+250Bd BPSK bursts (1m01s)  
9142 kHz, 27-10, 0750 UTC, 5x10Bd 16FSK+250Bd BPSK bursts (1m01s)  
10256 kHz, 27-10, 0800 UTC, 5x10Bd 16FSK+250Bd BPSK bursts (1m01s)  
11431 kHz, 27-10, 0810 UTC, 5x10Bd 16FSK+250Bd BPSK bursts (1m01s)  
12153 kHz, 27-10, 0820 UTC, 5x10Bd 16FSK+250Bd BPSK bursts (1m01s)  
13526 kHz, 27-10, 0830 UTC, 5x10Bd 16FSK+250Bd BPSK bursts (1m01s)

8094 kHz, 27-10, 0845 UTC, PSK+PSK bursts (1m14s)  
9142 kHz, 27-10, 0855 UTC, PSK+PSK bursts (1m14s)  
10256 kHz, 27-10, 0905 UTC, PSK+PSK bursts (1m14s)  
11431 kHz, 27-10, 0915 UTC, PSK+PSK bursts (1m14s)  
12153 kHz, 27-10, 0925 UTC, PSK+PSK bursts (1m14s)  
13526 kHz, 27-10, 0935 UTC, PSK+PSK bursts (1m14s)

8094 kHz, 27-10, 1040 UTC, PSK+PSK bursts (50s)  
9142 kHz, 27-10, 1045 UTC, PSK+PSK bursts (50s)  
10256 kHz, 27-10, 1050 UTC, PSK+PSK bursts (50s)  
11431 kHz, 27-10, 1055 UTC, PSK+PSK bursts (50s)  
12153 kHz, 27-10, 1100 UTC, PSK+PSK bursts (50s)  
13526 kHz, 27-10, 1105 UTC, PSK+PSK bursts (50s)

8094 kHz, 27-10, 1130 UTC, PSK+PSK bursts (50s)  
9236 kHz, 27-10, 1135 UTC, PSK+PSK bursts (50s)  
10256 kHz, 27-10, 1140 UTC, PSK+PSK bursts (50s)  
11431 kHz, 27-10, 1145 UTC, PSK+PSK bursts (50s)  
12153 kHz, 27-10, 1150 UTC, PSK+PSK bursts (50s)  
13526 kHz, 27-10, 1155 UTC, PSK+PSK bursts (50s)



Morse: CFM K   CFM K   NIL SK

**Morse:** UAL UAL UAL BK

QRO 75 QBN K

BK BK

QSD 1 K

QTC 1 K

OK K

11100 70103 46825 20134 04009

50

**Morse:** K K K K K  
CFM NIL K  
SK

Morse:  
UAL UAL  
BK QSA4 K  
QBN QBN K  
K  
BK ABT 20 K  
BK ABT 20 K  
BK ABT 20 K  
BK ABT 20 K  
BK ABT 20 K  
QSL 1 K  
QTC 1 K

75582 15056 12231 91092 45204 14007 70471 46126 71445 60258  
75270 29531 44022 93369 54380 04855 79566 66016 93709 89306  
77484 17004 71151 66671 03253 81494 76455 30388 22586 55622  
03061 86505 34931 57695 22851 71174 79713 53162 79751 62386  
13765 35542 63107 90638 83394 80494 46793 78210 39516 15220  
04978 61734 69283 70386 40483 77770 42666 06757 86690 16037  
97406 33712 68902 70024 10786 61861 36130 39644 31654 56913  
99219 65623 71145 87011 36265 00325 75521 80710 51247 44680  
29587 37786 96826 05919 64102 60063 97243 55796 65641 94452  
32241 93983 12330 05381 67970 46334 83894 18804 45805 52691  
19471 04986 64997 23940 21602 92242 20123 72981 29864 28821  
79252 49320 12561 35118 13778 31955 49918 13415 15834 60258  
07225 07315 64266 07526 21348 28087 25058 26896 49069 90080  
97176 24318 50670 22415 39767 38253 07213 49122 41621 30813  
94945 54940 18884 19999 65280 78933 51910 07751 03769 03134  
97218 83478 66523 28387 35488 07776 17514 54601 41518 05987  
15185 07566 87107 26337 21823 79549 12774 42290 34117 75851  
29263 03837 58350 84495 34778 67397 78651 11260 58869 59025  
91755 47225 68925 50591 06710 61027 00192 53655 32945 33007  
95269 60693 05178 73443 64022 88375 18561 92052 99826 02591  
72519 10944 13115 29882 46727 38226 68132 85010 57642

M42b – FSK 50/500

Morse:  
K4MT K4MT K4MT DE NT9P NT9P K  
QSA3 QTC1 ZZC K

387 105 11 1049 5167  
387 105 11 1049 51672 =  
92724 09960 47422 62709 53802 54216 61174 99760 66770 80376  
39035 70374 80900 94832 59292 54403 20050 46775 24130 14773  
07374 68390 25146013183 61493 46957 54949 68528 70119 81685  
71583 21668 21383 32231 35287 95150 14539 60869 52125 84855  
55020 07153 17918 08263 98027 97998 65757 78453 69646 42297 =50=  
85689 02137 84215 46062 47268 75827 45141 53010 66732 28546  
60\_\_ 080\_0 13112 27557 90960 13086 34510 51848 48838 98441  
41525 57283 00617 44120 52371 03096 38873 25835 8\_\_27 88437  
48246 93077 22379 90083 27257 00256 67863 69597 76321 15996  
30912 25894 75570 52058 27906 56662 86293 13655 93237 05113 =100=  
09310 80468 32206 16185 30

Morse:  
CFM NIL QRU? K  
RPT K  
BK QRU K K



**11136/9074/7723 kHz, 05-10, 1840/1850/1900 UTC**

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

**11129/9082/7344 kHz, 03-10, 1015/1025/1035 UTC**

37076 26843 30004 10430 25641 41918 23565 53848 44131 58061  
 06243 94522 71331 50227 32958 82813 12833 90295 57712 36758  
 73930 55293 93449 35102 93545 40791 97784 39734 25137 09166  
 33063 89694 75504 27409 74161 33960 37457 74178 62492 95181  
 77250 20775 29622 81567 62758 15725 38972 89099 43303 27678  
 19011 61270 17075 26278 86392 98519 47098 05719 82479 34577  
 11661 80664 71668 21879 00161 09210 74984 93252 90296 22592  
 37355 92069 67540 66319 52021 88026 72843 82418 90513 20775  
 89486 87475 11625 38556 05046 26176 47834 24054 09378 05011  
 92604 24635 14590 35848 36997 29177 07908 44060 29041 58658  
 73405 20885 54292 62714 43507 24713 61026 39329 66220 60988  
 78488 19868 99027 95409 01657 86621 65368 80123 40944 15062  
 34671 97588 60275 57991 11841 51802 51984 13775 47170 61586  
 21964 45838 02591 35599 83508 45628 35214 33785 83283 56213  
 84090 44928 07863 98719 71132 35012 44270 68783 52134 46067  
 92957 95212 78824 50189 56672 78041 57894 88428 53630 48169  
 17936 49226 28448 15766 20224 66086 59267 99636 74290 39176  
 84504 54731 44213 10544 97670 39984 56571 47628 83689 93672  
 45993 14765 95169 08489 99246 37360 92036 23494 83792 88438  
 92996 75170 71754 52233 12252 74727 95237 44512 79897 03879  
 93927 94342 69462 46248 40913 16955 81002 96627 57674 32416  
 53206 15233 54161 09789 02940 19184 54911 41463 15672 28370  
 97140 77358 35208 07901 11741 73669 26193 74323 23128 35855  
 07789 57804 28878 60550 81992 37442 45076 06092 05015 91928  
 28336 46346 75168 32718 10414 87523 35690 11906 06353 52670  
 15945 22004 82105 63523 59452 29796 92567 74412 12156 11466  
 25953 37906 69393 81176 15458 06880 04992 30301 04151 02698  
 30927 19480 74013 04200 60992 90697 75090 37166 76903 91573  
 15667 68969 20286 29040 99417 38085 58977 94602 20475 73150  
 01084 28377 52333 81267 55227 14072 91546 10222 60421 22129  
 42149 14330 34019 43183 51725 78573 11152 79050 35094 80724  
 74126 83418 46515 96156 95185 69437 86369 75005 41096 26382  
 53262 46386 12985 12595 77451 29355 19867 16879 96584 55282  
 09305 05540 59643 31357 03634 97255 70053 99873 15187 32969  
 03889 73022 38968 32986 64118 47845 46198 58467 56816 31059  
 27183 19506 00292 28433 56928 96967 03053 78396 81952 70296  
 71574 34578 51726 68460 33772 26959 43177 86226 89140 56322  
 51697 32961 21500 01693 47099 06133 35262 45456 17941 06714  
 01176 45833 52675 38659 22489 11417 31047 59657 57447 57432  
 24188 75339 59083 48438 26835 94131 18231 57131 70117 84936  
 20695 93951 88348 04843 54519 87183 38255 89028 28292 18226  
 94093 20072 86426 41729 67072 18840 32342 45276 22536 24138  
 95502 28316 93338 53332 03239 05006 12841 61104 43284 90429  
 00000 +++++

**11129/9082/7344 kHz, 04-10, 1015/1025/1035 UTC**

67008 47147 62152 86394 67006 58592 41792 22357 64052 72068  
 60866 28423 09087 76926 14334 95478 11992 74792 46449 00335  
 09528 88019 36715 54253 01728 10406 97266 08605 73941 86147  
 11364 66095 46701 27947 67690 70992 20618 10220 70134 76795  
 08478 98335 27749 14785 71734 99835 54576 11885 03587 48553  
 34022 31288 25819 57588 27465 34257 91605 02068 31796 86570  
 11456 17622 15570 58028 44494 25523 88454 88457 22254 20431  
 83676 18664 97184 81659 58132 09767 33052 93922 39868 99336  
 79414 91081 00000 00000 00000 00000 00000 00000 00000 00000

34390 31133 93382 03571 05583 77877 09804 43219 11752 49430  
76472 47936 26488 50240 73125 78882 42971 58109 23223 00600  
95115 73627 59859 04319 42857 90400 95679 51287 57553 65780  
95237 28310 68412 96751 73230 32674 55891 30702 67050 28666  
03015 65726 57094 42848 40527 20180 33257 90303 46844 76153  
31064 49017 88716 26560 85857 24590 13563 80525 78500 72475  
29386 06768 71007 69921 33245 19647 55571 54808 74180 37584  
65387 73565 61559 68531 20748 05359 54769 02171 08817 54741  
95192 13552 20543 29935 66405 07836 93125 48960 93536 60839  
31504 40772 17725 92093 00000 +++++

**11129/9082/7344 kHz, 05-10, 1015/1025/1035 UTC**

30009 09782 65837 19112 10640 19962 79501 39415 62993 90505  
49059 36145 15075 11717 52372 05321 55543 44723 59320 92504  
68046 61952 77911 42114 71532 17388 49325 91366 83686 32547  
21559 57274 49718 09126 56381 90163 03651 04232 49274 92121  
54329 29162 67045 23826 13323 57645 32810 48191 06900 54501  
13021 84269 39283 60641 86233 69843 99354 95357 98306 56143  
28012 61839 33702 83136 88347 66835 57598 08817 05856 90431  
08484 90938 70844 66853 45933 44627 20238 62240 83235 24302  
40964 60334 59589 03367 62114 92015 31521 50073 28057 69623  
88236 23028 69693 11997 20588 34762 16049 71178 98332 56796  
13386 96714 35390 64662 44020 98490 47770 46289 62027 94042  
33862 22216 88044 51271 31779 51051 30329 62509 33439 18630  
24278 10876 60071 34294 07597 14846 28835 82744 73289 61987  
65242 04892 67684 67793 41064 06151 25649 20546 42418 15618  
60213 98158 97712 44557 48765 67925 20152 17644 83025 05118  
44465 75405 74968 91366 62575 71276 35898 78770 87874 11740  
70848 30656 02798 12953 55506 74945 69390 72325 87840 31052  
07550 78479 31629 96254 70626 08012 94060 02472 73085 82527  
04615 79398 49890 84350 87390 84913 52331 54374 44089 88720  
09951 20467 89816 20140 13282 29894 08919 16010 97065 84171  
23013 29609 28651 99801 88420 86561 31253 43330 65177 98648  
96767 14146 24821 71472 67817 73482 89120 66894 93727 43046  
16971 06207 90118 21705 81598 24960 56789 93691 05303 15390  
33599 26733 43898 17374 99019 83578 38046 43871 41055 95324  
73677 51757 55201 70006 18681 94023 49162 34877 28047 14250  
58972 35816 34658 69303 06247 42299 67909 91196 51227 31383  
67351 24048 21312 49121 83540 97070 19768 72863 83276 19538  
44306 22869 01432 08658 70200 96679 06545 86296 77652 24676  
72370 05484 28080 70268 72577 92645 19018 23154 40778 16494  
72317 59070 63070 19513 35339 64506 95297 72983 99818 49772  
22196 41481 68094 98900 00626 67778 21390 29797 54072 14100  
69828 63080 10603 20662 88882 23053 01471 67434 71924 19237  
62546 50058 53591 81917 05776 05872 83627 50122 52838 50959  
55907 35484 48200 14180 22321 10419 93757 79104 46210 94054  
72239 69803 75044 34357 51571 41413 37019 09879 87388 61428  
91272 99580 65868 92659 86395 94149 54100 13779 06937 47265  
50144 38408 12582 90241 49997 18676 99695 58486 73636 44188  
39911 03209 17331 72341 75464 86831 24414 50927 75947 85519  
91695 18953 86181 47277 53710 96627 19886 79055 11985 00447  
78837 61295 01510 44301 02205 13350 11609 12575 75745 58226  
03386 16141 55559 60079 90947 67208 86066 32896 78580 33958  
16932 93411 00000 +++++

**11129/9082/7344 kHz, 06-10, 1015/1025/1035 UTC**

62973 52740 97947 74435 77004 54981 17902 59639 38698 84309  
81272 22136 89452 79741 18170 62644 58719 92789 82526 07637  
37911 50816 37588 80546 55207 24772 63380 82842 99668 43523  
97082 39653 68102 21946 42249 89627 33126 94978 07819 23725  
55855 74813 62844 02614 91659 73431 17883 07375 62421 57644  
68983 03191 93739 28853 65211 20712 40504 44692 85642 84787  
49298 24769 36770 45245 31043 07653 06260 89404 42345 51346

33984 41029 98960 94375 86290 75376 69836 19732 44417 05063  
25150 88822 43015 16404 36791 37634 19702 60939 54721 52284  
61589 94091 00000 00000 00000 00000 00000 00000 00000

68695 91665 03509 53787 15872 81744 23250 90907 52043 07933  
43228 48014 83713 97243 46056 50839 77890 51497 49691 08483  
51636 88789 83553 37750 12489 39361 36617 47349 98200 38048  
88406 36639 89235 80500 58846 88617 92450 35359 37894 61833  
19413 29576 80893 10913 07781 49069 80591 90385 59185 21894  
51750 21502 92058 76121 89297 26723 32837 89616 85943 61572  
93983 73890 20217 98545 12264 59225 50838 42749 45711 73264  
78387 83974 52721 30230 60189 14874 01717 72988 89360 95079  
00000 +++++ +++++

**11129/9082/7344 kHz, 07-10, 1015/1025/1035 UTC**

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

**11129/9082/7344 kHz, 10-10, 1015/1025/1035 UTC**

22202 81849 57296 35066 23953 80532 08852 26009 56917 98614  
75619 91931 98421 22898 67468 36449 12895 82343 38264 49177  
24864 56782 48169 10980 13915 95486 75256 45791 42567 00293  
49879 86213 53000 52966 10230 45062 93555 91486 02533 10072  
60973 64949 74295 03913 69275 21771 34072 76747 81259 10873  
76159 23483 63521 00554 93681 42917 50946 44715 28485 80972  
31619 51141 31288 25196 88078 31520 30520 42719 55853 37884  
33296 78856 85223 15171 06952 58542 17146 24578 14585 57784  
09270 17413 03035 37322 72991 64113 66747 55688 07482 68130  
35951 03840 41627 19369 62586 28568 19808 66862 02431 36862  
92472 15367 16850 98416 97430 75583 42617 88475 42804 22665  
03233 38188 27577 42724 60187 84677 60683 72008 27609 38003  
64566 58445 98715 07205 74142 00229 57531 52615 67121 41159  
74290 56628 86606 27390 07970 30117 41918 55306 64386 96678  
98579 65189 83304 21903 93394 60377 52977 79842 35571 56601  
75569 73882 79803 91184 31903 54190 82276 46785 18943 98936  
75513 69388 58489 51468 23006 85221 00489 30633 39572 46271  
69414 56430 88366 59120 27152 58184 90501 76756 50824 57424  
08188 58065 48997 42659 87360 24686 64700 78231 70705 69912  
38703 14445 17044 99341 31480 91146 87989 07939 27306 51956  
87840 23221 68919 11322 67622 69241 96186 41599 29236 31059  
87212 72342 90631 24385 25319 18979 97967 00099 40358 83073  
95667 38301 97757 91362 90332 11621 33778 65738 69434 22436  
60381 41388 60735 43713 88182 75256 43366 18148 40887 12029  
46499 95293 59688 99829 96562 11360 21029 72801 98918 41386  
16187 42780 64963 78452 66113 67227 20562 19642 69960 85631  
56780 63416 10739 41544 08830 48114 66546 32451 74178 86247  
00791 54666 05757 74282 29862 35429 41201 82600 91680 69397  
54067 55322 63562 01721 37954 74680 02840 24888 59479 69632  
08667 81527 41033 73397 28463 90350 59261 59607 57417 37434  
70204 11761 04498 00017 97034 05660 23403 94998 41333 09530  
31889 69349 03831 31495 67921 74582 25566 69111 56069 92506  
85390 40633 82600 04438 14757 02709 02702 21048 15727 84185  
28264 15048 93149 90719 69673 23897 36923 59872 30046 14708  
15306 71383 75335 28554 65189 42304 28763 46361 90286 61684  
62997 43557 03168 44498 88527 25690 72080 09493 61666 62187  
58489 10654 60616 60445 56283 76969 03043 47438 68573 40180  
03588 51037 83028 55211 94760 98220 31686 42962 59649 72368  
46166 10151 49880 96825 44244 25891 87274 36921 08695 59703  
72628 37635 44371 10633 50068 39093 24437 82167 00395 37083  
61699 82653 61887 80782 65973 55872 01970 24869 73424 71493  
88205 78225 58818 30074 32039 16411 66614 62291 03731 50082  
21854 27108 41925 66567 06760 38552 06275 86769 14006 75785  
46580 04588 12579 56177 86864 96435 00000 +++++

**11129/9082/7344 kHz, 11-10, 1015/1025/1035 UTC**

28544 93782 75358 53732 90947 93257 58337 38336 71034 21488  
50884 20054 84594 64437 92850 23310 54605 16271 26426 90858  
28904 61454 75377 23747 98731 61246 46270 31134 66598 86774  
62586 44668 36907 65878 67699 77092 27757 35912 57634 29793  
27388 19690 29544 78940 43684 66765 56851 94946 20185 27227  
26987 74903 17032 50204 02665 92698 80304 24266 92621 96497  
48161 01903 42782 08270 67242 75274 83754 05058 17761 95425  
95621 86674 70724 52126 75957 59506 25718 56568 21990 91123  
02700 94058 62877 15377 86230 38938 03010 92669 45583 48882  
62287 55091 79174 80791 24306 91107 56744 95447 28393 97099  
00000 00000 00000 00000 00000 00000 00000 00000 00000 00000

18306 12397 47553 85830 09636 15481 27466 69473 56360 32180  
28970 80225 92182 51198 71539 70210 26525 38663 55904 68543  
07290 20688 20614 82892 22393 59781 67837 47220 32256 86043  
63087 39166 50433 69082 38560 15484 14582 41592 54773 38992  
14945 10529 00195 95464 72546 16822 33546 23892 84273 29556  
98468 08571 77049 85565 65240 06438 38268 10374 79234 08099  
14694 81423 20799 55992 96995 19522 06251 68104 32123 19452  
84672 40706 30698 55676 10198 98075 00000 +++++ +++++

**11129/9082/7344 kHz, 12-10, 1015/1025/1035 UTC**

46206 74238 49901 70499 33759 20663 79535 77211 15004 40207  
18371 49516 29959 96125 73476 51739 20158 70563 03016 86882  
36524 72704 00739 37830 39146 06394 77835 95364 31138 08166  
96836 46446 93760 91625 37267 21179 15005 59111 97702 21903  
28822 66579 63964 82861 07181 52655 98090 33863 72143 67772  
27817 66389 20159 64355 41220 25582 75735 33972 16227 76543  
16709 02394 39679 18395 38272 18507 95630 44524 47961 98004  
27571 72462 08797 07813 04271 91824 72741 02157 43911 03762  
71690 46245 76222 50343 58159 88477 47277 57330 12874 67127  
96665 38752 61440 62439 61706 36753 67276 30062 88407 95113  
93016 76785 53845 89912 47542 64479 29659 65748 60860 53211  
41348 50973 53991 19446 03054 50354 96068 10292 32522 38628  
65832 19716 75924 03367 59703 97664 97231 10592 13625 28040  
11827 91587 30870 36456 69042 74338 32985 13718 13311 08039  
76063 65963 78618 54097 99551 27402 95945 42091 99745 96584  
18378 14095 45195 82153 93592 05825 76182 68995 38382 38043  
55477 40747 94927 16648 62536 19582 73490 64889 48365 09225  
11219 36164 93194 52119 01758 80799 34189 36702 75344 65290  
55358 15702 34080 67407 56856 21420 72068 95624 45878 88919  
35096 06303 16308 23054 99564 17060 09341 70292 75333 39774  
72235 81262 62190 81653 57406 74949 14610 87804 29035 40498  
94509 23747 69388 37553 16678 21308 02026 81059 16565 36328  
74097 21487 95125 91625 64904 56393 20402 03651 12922 34278  
90525 16267 78459 36654 87843 90102 84164 49283 78832 20902  
00532 58505 39513 85320 68631 33611 11031 37602 77224 81175  
15107 05561 36464 82310 84034 59334 15365 48762 84917 51312  
35229 58793 42833 50703 36216 58787 92608 21166 59248 41515  
13896 14942 10434 37000 29239 81932 00194 76911 69813 17155  
74285 18437 38532 95008 78913 38566 25199 63809 27102 34718  
53402 98995 58526 92651 63837 38480 09993 07609 63731 48561  
38750 69603 97083 93838 65810 48822 15384 09566 31495 42049  
53510 99895 80355 66072 40490 10423 17693 08991 99807 48496  
04838 75380 18960 49716 85388 86233 92927 14059 59594 19631  
71265 60070 49072 03066 63489 70567 19042 93371 82457 28268  
50266 05186 30421 64817 77891 73874 57443 71613 39362 63885  
46863 45902 98611 58434 07506 70551 38705 91479 77311 50961  
40134 07927 68081 57536 86931 62983 06023 47167 67819 96614  
47782 62147 64553 44042 76656 29973 44666 68198 08667 12456  
00795 25113 63178 77597 03771 98123 77766 92642 61677 61893  
72004 61773 02040 62134 89859 56865 19358 22001 75401 14740  
55150 11078 61490 99375 02713 37903 76139 52479 53762 51962  
96247 80887 29174 66097 03380 54213 60977 35257 21284 11191  
17816 52539 39835 98144 91050 99425 00000 +++++ +++++

**11129/9082/7344 kHz, 13-10, 1015/1025/1035 UTC**

91875 99736 65385 99099 88818 37008 70301 95299 21939 33436  
57652 13468 96704 11160 87123 72026 80197 55462 09526 21987  
87214 14037 06858 65986 69204 10409 03160 31331 73218 07451  
25860 95477 63074 81940 22302 87392 19911 96087 61122 13231  
64324 76969 73193 79768 67274 39817 11795 14023 41953 16086  
36714 02506 33787 72245 51961 98543 50784 30236 51782 71094  
01387 25518 54661 93516 32047 63656 30001 95706 81679 61379  
47163 28063 95214 83048 01562 10692 63402 08473 97491 66319  
81090 93011 92388 60316 41132 05897 32196 96305 06141 57720  
32537 40759 25249 53011 85373 75043 88086 28856 95842 98347  
33146 01101 00000 00000 00000 00000 00000 00000 00000 00000

18846 69844 44422 47774 04566 52271 52543 02576 20941 02922  
34336 77588 42941 31095 83542 52721 01136 19788 40903 35469  
26925 70610 12491 21311 98264 51144 00248 15138 90559 68174  
61910 99653 62426 15248 42525 61690 31003 67973 44730 12364  
16500 25527 29995 62024 60676 21771 68003 35920 48926 54451  
76368 41523 90667 05894 17868 23463 37723 53644 47386 66979  
45373 94481 25752 35859 05768 30256 42658 55778 08402 88972  
15844 78996 07313 2073 00000 +++++

**11129/9082/7344 kHz, 14-10, 1015/1025/1035 UTC**

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

**11129/9082/7344 kHz, 17-10, 1015/1025/1035 UTC**

67889 31776 54103 28573 81911 12642 07023 10223 46023 65552  
98482 27747 63179 41104 35544 61836 38764 50860 74251 58799  
09759 81949 36348 32897 50179 93002 32733 02373 44973 52377  
98344 82612 49555 04613 68152 84865 77184 76033 48955 93976  
81352 55460 66660 23553 25382 10949 93752 72012 56421 28505  
86605 27951 26016 83711 87365 98259 24459 82198 70057 57435  
21086 29902 35626 41521 27724 19044 85582 35110 27473 40771  
28964 24856 35997 60396 02267 17923 87531 16170 07063 48816  
62786 27522 94984 23031 00921 23726 54750 70945 62797 28897  
80931 10421 37690 64281 29151 41516 10636 53767 87386 21776  
32618 43561 18084 95522 60773 71950 50746 75589 60797 50113  
29713 00929 88756 39892 46790 18539 94469 39483 13441 63150  
13669 12970 52207 33094 41112 24643 12062 85805 01841 64045  
37371 01392 62773 72672 45158 87704 51811 08275 90359 25351  
76660 07691 23750 76089 60538 34158 72232 03037 36973 20032  
96188 76130 70860 40848 03552 61282 97989 81678 25315 16664  
00206 81700 82153 44553 58405 67937 96846 72188 50556 14082  
32179 60064 86915 85372 59034 61104 99654 55425 84338 79149  
29053 05986 93558 00206 73470 45529 87441 94876 95273 07641  
17675 15426 99906 15120 51166 35914 30293 20749 17617 08826  
43760 60651 20088 36652 63670 81194 13241 81838 22938 25359  
78944 63564 41646 89519 53926 14760 05912 86570 89167 97828  
40228 76346 45723 02491 90433 49252 56653 74194 59527 74063  
09754 46531 63494 45820 30783 76097 99342 94753 71854 03223  
42535 42192 34700 87029 15998 14371 83480 88235 97907 50092  
26834 98153 60427 63173 73851 37317 56589 45608 93668 72173  
97512 22402 33351 23281 87136 93990 73773 63447 06666 27209  
28173 29248 65902 80714 13069 94357 63669 75840 46223 78141  
24495 48778 51354 87930 03761 45062 74264 18429 78487 42262  
40083 56695 65964 11844 06318 66111 37381 56128 91381 47810  
18684 81282 83308 02968 95813 92283 58324 44424 66534 20791  
63968 31048 06023 21874 46459 23298 38428 00518 26979 83412  
31557 53849 56577 68665 56912 40034 04373 91125 82232 09760  
58741 42358 88753 61260 46184 06501 30351 04815 97554 10166  
76775 47647 16342 82586 08153 35188 28686 24459 52942 09604  
19824 08914 86535 71569 86644 63052 32697 56179 61050 03487  
35010 58973 83800 24324 90544 72988 33535 61024 62910 22789

40660 78580 16892 06398 40784 57451 41859 81089 47390 75678  
56130 53951 48442 10645 09478 63183 56591 08887 25972 61048  
67694 97420 54342 34421 07317 35004 18039 23877 69909 26780  
82199 27248 80352 50732 79693 98593 32544 69400 63428 78512  
84736 25285 77129 16749 16289 43377 61746 73014 75535 03419  
00000 +++++ +++++

**11129/9082/7344 kHz, 18-10, 1015/1025/1035 UTC**

62897 43878 03144 32520 75922 56925 13744 41170 41464 16290  
69925 24240 94493 04131 93981 25698 92339 69467 17890 14880  
03914 43060 01494 96144 51768 16464 71480 22542 74180 21168  
60859 11922 99431 68775 53604 88917 49493 38159 64166 01249  
15286 20521 06536 83779 70712 58300 32539 68764 17649 38872  
44066 65726 79072 28965 08908 59398 82533 60734 34898 99172  
01138 05445 82036 78487 44237 95674 17297 27593 15019 82002  
41791 68139 77173 35101 44987 03011 97831 04077 00000 00000

37614 25709 77109 94337 34559 95843 77017 50877 56465 72412  
50025 41640 13404 45294 18159 14914 12616 54669 77224 99208  
19076 12598 98430 80147 83735 62973 21924 36843 69126 28294  
84385 48678 27016 16685 47911 08432 07800 87620 22343 02694  
06322 99766 98248 45504 73803 89390 32727 76145 50583 52781  
55240 57039 99332 31103 85647 32677 43453 21132 81639 35518  
40343 60310 57743 49805 44199 59551 43111 69225 38075 82239  
70258 09352 39851 92851 11945 60812 11827 23655 08389 94118  
28606 32905 52009 52092 82978 52980 21859 05087 00000 +++++  
+++++

**11129/9082/7344 kHz, 19-10, 1015/1025/1035 UTC**

**1015z wrong 1000Hz shift**

91135 19443 78375 98547 44452 11716 24356 32292 36181 04440  
53592 82631 89042 76427 61200 05400 58452 60978 69801 69336  
41302 83539 86590 85203 40308 77206 49575 80710 57367 43236  
98906 00920 14352 48772 34245 38833 24781 78964 44098 25838  
64809 85663 18075 36710 16978 99894 77980 88845 85138 00287  
88697 40428 04031 54635 34794 17200 91899 76811 73787 22546  
19642 66185 02008 10553 94871 21750 93996 26750 84384 48153  
01376 46221 23420 95797 22131 63748 85194 02217 76237 15714  
09113 26913 48579 38418 11116 96829 85077 92506 24591 04662  
52995 08209 45288 27186 01327 31057 78679 55795 82227 72786  
13192 56429 19418 97089 67761 01090 34496 94933 87139 38117  
67092 29108 83390 93433 49824 52699 47018 19927 23952 31178  
76160 37161 06718 22793 97282 28619 46264 96943 75820 88638  
25097 95238 40195 36251 98018 64906 67645 38100 75471 19269  
05319 07632 88229 04943 25048 72736 94373 80474 35261 29040  
14492 36084 98451 21026 06037 09207 27664 18178 12786 75533  
60405 78325 50327 20218 33448 15388 13531 18946 06947 13702  
16920 83566 11303 56111 03892 51946 15227 58021 85730 26764  
38429 24597 96331 92905 57372 73285 73596 68170 77533 88867  
03418 66961 70603 03212 87203 81647 00068 16925 18874 11297  
83602 05079 82266 92454 65723 74215 04890 11660 99128 62802  
28962 04395 58170 02338 85672 70135 32888 81279 83603 58217  
77053 79005 47249 04174 08650 61968 66572 21265 86233 59257  
43527 76858 09612 59729 46500 08371 18275 97919 08594 58435  
86018 20905 30696 34009 35195 53314 75273 19081 19032 02664  
61825 95691 45452 72222 99932 52929 40841 73576 208:3 88616  
77186 56094 93532 33343 11037 95462 36170 51567 07717 08510  
58935 99439 49225 86467 99122 44063 49277 63891 34460 73861  
23896 65402 85595 54751 91016 97460 43682 11801 97535 77331  
83989 41063 97231 16456 51496 81275 28003 00403 29389 00109  
61866 32586 26412 74649 26139 33940 43996 70822 19252 15746  
09117 51406 69635 67776 83807 67367 11098 28977 87274 12172  
73155 32838 91544 43780 09735 44676 76583 03994 14697 32983

55832 89869 97607 42058 08081 56856 18211 58087 76632 58366  
03017 85868 21694 51459 92469 78376 36917 23321 92109 86337  
66049 18240 26183 20018 80605 69750 17126 40401 04527 67646  
39367 21953 96738 14540 20885 54152 27562 51662 90956 73982  
09909 58589 97531 46560 71201 56577 42679 36105 76944 70209  
09529 34424 41908 27014 79166 39102 89833 99775 60896 98588  
47618 21198 84325 66370 84907 25622 26705 31404 35039 97483  
73954 17016 58268 31193 38821 65436 33214 32129 84606 50180  
87470 13438 27893 83428 03316 68315 18714 10634 59449 22464  
21600 09511 94710 96420 45948 35610 04702 06427 00000 +++++  
+++++ +++++

**11129/9082/7344 kHz, 20-10, 1015/1025/1035 UTC**

41121 63894 15688 97410 10455 76078 22429 51526 39613 97484  
21104 71005 06881 79963 48098 98392 03085 43155 04116 24791  
96601 68274 66897 72176 38700 93571 12234 17225 76398 47377  
22963 55070 65033 79688 90656 26450 97721 78232 39656 56662  
93901 79927 28168 79782 14151 13704 06094 46560 93451 35605  
34286 39458 10109 42109 94919 43251 32494 72615 47660 44625  
10817 37025 11327 59225 06093 29358 75720 09581 73512 13344  
73330 02340 42396 07073 00000 00000 00000 00000 00000 00000

28272 28419 97230 25179 26749 80784 92088 30122 32389 51794  
52072 09330 97803 90499 27506 14677 58712 32225 53576 89958  
48326 89184 97188 73862 55953 62291 09758 32724 34539 97597  
03162 09010 86816 35800 91014 96454 84762 28248 62468 77803  
02030 17900 80715 86079 64070 08644 23387 75334 45609 71453  
07035 11805 70180 60779 62884 21411 91388 39650 56039 54549  
60609 36882 65334 54105 10791 84874 66022 37619 11066 11399  
82473 29562 71849 83826 03092 04638 05105 29245 74614 28057  
69486 78882 18005 03729 55020 10292 33106 66294 87031 85718  
84254 08091 00000 +++++

**11129/9082/7344 kHz, 21-10, 1015/1025/1035 UTC**

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

**11129/9082/7344 kHz, 24-10, 1015/1025/1035 UTC**

65118 76480 79276 81996 58373 74473 52726 91189 36617 39877  
14642 95085 26785 39772 37417 15581 13046 43407 84349 29494  
56123 12591 30388 16043 49452 76182 03293 06379 85570 55834  
81132 14849 31216 35207 07077 56693 34541 89813 07410 81856  
12908 19712 23696 79585 94670 52203 95054 33538 13414 06743  
51461 32046 78061 39252 04028 63254 67300 07996 43184 49806  
21771 28247 80721 02771 32430 07899 96602 99488 48559 81222  
76514 15039 53829 82955 51063 62002 83874 29919 72578 18210  
68806 02326 90448 47196 29103 41999 10929 40938 58319 09662  
52360 39752 91051 68502 31734 08846 29590 86195 43545 76334  
67700 72563 16865 62356 54975 95074 61575 53993 90186 39364  
39704 05685 42081 06949 22783 69805 21052 67353 21199 87121  
50131 06804 96432 91779 08733 40701 92165 10554 47585 82047  
45156 61000 98299 83013 61845 78239 26001 91848 71627 25028  
98456 92293 92706 64828 70159 17720 71499 02548 04777 57148  
81503 22641 84425 95355 92577 79266 79195 54253 46575 18184  
75367 27717 00252 35065 85756 27064 21406 99931 90625 79366  
49175 02390 82599 45775 54428 97345 14026 52057 61195 55907  
70205 48529 15073 51146 16950 41566 09533 33402 95886 63884  
06083 74839 65953 75780 09212 87919 14530 14517 82058 47490  
86628 34034 13738 71173 05591 02189 74268 37743 83725 47694  
18030 48184 46329 73956 21701 59099 17518 81994 67598 43186  
41312 69629 08372 56436 36420 99125 73976 16770 08144 50485  
06875 23783 65854 02567 36397 74286 19468 09228 28192 53345  
53368 62673 69725 05488 01204 61198 77740 15776 70002 23514  
38637 55433 87041 16839 17687 71701 67907 90953 98048 26633

29183 35398 35493 14491 94207 01994 39796 12449 65333 59897  
18726 44285 61125 75353 45566 61742 41945 33341 36111 73264  
72341 43309 46074 74770 93708 96173 24837 62176 05618 64778  
86494 30338 79295 64994 84110 88108 51657 19656 98142 44195  
73349 92515 74960 43508 09231 84402 76399 58683 14732 08779  
26292 66462 36535 88877 64897 63636 11007 43608 47193 02214  
58816 54423 45943 48527 99191 30326 45489 95940 32234 13208  
37205 85868 62744 90713 52546 16776 63980 08804 94635 45859  
04806 01221 54324 13084 88644 78028 21657 42282 77694 40429  
28687 98979 00832 14029 84584 09655 68644 17758 88952 72107  
44032 10616 34315 11628 41804 83432 33698 62659 55733 87851  
34246 80630 36472 19688 02815 13653 68793 98886 94465 88771  
21590 13235 39816 92451 69053 18045 12173 49988 06491 08969  
60387 33538 09205 10157 18367 53442 07882 44929 27192 12542  
78911 81151 30766 28171 73096 68514 30930 51507 31171 09886  
12999 38982 59577 09413 00000 +++++ +++++

**11129/9082/7344 kHz, 25-10, 1015/1025/1035 UTC**

71340 60330 22112 38559 00289 40533 95248 38968 46579 46232  
60128 70953 72859 51488 66122 51754 92253 31560 12755 70085  
78778 83757 97674 44723 54033 29624 71355 16790 42345 59420  
03232 99153 11556 04817 88942 31412 41647 50757 53377 13861  
88382 22414 29207 18921 34151 08181 15600 03435 43215 04634  
46786 70279 63533 94412 25191 52738 42355 92935 98789 20059  
47770 24916 87397 27644 13410 16581 87571 60307 48470 14574  
10814 42030 80261 67433 34757 10667 21463 10077 00000 00000

66269 90492 79937 34827 02811 11412 27843 52148 84531 26346  
87975 49145 96410 46299 20884 31278 54305 68301 75477 36815  
93176 60299 32179 46366 83538 87145 51655 20261 87067 32395  
02536 30936 87310 95591 66594 82534 56426 69723 44788 34900  
43895 28550 12626 74148 98153 78474 98288 97018 57057 54655  
81937 01166 68143 66043 39654 98613 24611 19035 80445 94529  
27959 74422 49754 98525 13225 17336 97908 60657 97761 44857  
36955 49328 39477 00999 34299 13269 15494 13737 16611 94786  
57155 13777 82414 86477 02309 39750 46808 48571 50820 59516  
66750 29124 34246 62278 20354 54216 35601 11097 00000 +++++

**11129/9082/7344 kHz, 26-10, 1015/1025/1035 UTC**

17524 63179 44988 90947 76637 66114 51485 57456 53807 47672  
00599 23613 57374 78526 65598 30256 38957 28967 33833 68698  
02951 35097 31507 73350 13377 51860 82534 84751 52788 66314  
68663 18948 12913 69599 83061 04155 21724 11029 94543 70647  
36623 82754 64626 04804 58419 08433 84614 03250 45804 34331  
24881 88038 35000 46313 13547 68803 94264 61141 86748 62820  
67960 65536 77667 08917 89846 01420 36517 36167 70309 20795  
98678 73309 87198 58688 43167 09826 34969 97596 08616 44616  
11804 21877 58965 83207 49422 85510 16057 69442 15246 41689  
01295 62566 41614 07653 53587 95671 61740 63218 15742 76424  
57096 06437 06507 16015 45903 14818 20437 97260 67429 85558  
22792 17820 41775 53213 31632 69430 09829 08243 04309 39123  
83094 64876 70544 43351 58063 51734 79271 30957 74823 23635  
51438 15932 24603 18039 55953 25900 35918 04547 50963 77252  
94022 00918 57650 12888 73353 54011 58736 63489 87643 09127  
38886 18263 87398 16141 09183 16101 59433 45912 82882 93080  
08135 15374 94619 47255 23159 44750 80260 06665 63236 95345  
59588 11507 10781 61338 89007 46410 76986 14006 76449 83732  
62101 21842 75685 23842 00558 94981 02209 43303 45664 27382  
37894 86913 73529 35198 16610 64521 10906 14780 07979 38568  
16664 68744 41467 13295 71548 73546 37994 61538 55933 86992  
41252 50069 20251 19130 65914 49402 77784 14961 04931 39009  
74508 22401 63092 43890 15671 43936 09048 63422 53799 95401  
62973 78435 67820 20336 62063 47446 87983 33331 71053 27986



46264 90829 29939 83972 56953 12795 56093 65048 57103 03704  
42972 68829 61527 46289 22577 22004 12038 66478 83885 41211  
25604 92950 64421 59653 71136 59776 57158 30356 29557 25543  
99941 42030 16865 07440 39617 08477 74881 53703 88057 17449  
59352 02896 12268 49942 80099 03429 25759 05814 72920 91776  
73384 96704 07903 52825 26813 92169 63856 10783 32842 29980  
23550 24096 81724 26511 69431 82805 87705 48178 84522 31784  
98952 29834 88180 68288 79065 51082 61413 87263 27364 06441  
41423 72846 30121 30280 90084 59486 59949 62495 66034 11138  
65518 65837 55059 91965 18784 30830 38473 26975 11937 29237  
04173 76029 21236 01995 30052 69691 79924 92552 94470 80302  
27427 61567 93460 26767 26983 43878 69356 36455 68947 33705  
80541 12685 01904 09010 66992 81191 58813 30951 91312 14055  
70355 79376 59944 54494 82678 10287 54239 90981 21719 46214  
26084 54115 71297 35440 37760 34676 57172 41003 50734 46319  
54232 45435 93057 81327 59027 82142 60068 32873 94815 29402  
28083 82218 41318 27879 85760 74293 06365 12407 00000 +++++  
+++++

**11129/9082/7344 kHz, 27-10, 1015/1025/1035 UTC**

23397 48705 62797 77777 34096 41847 31707 63238 90455 91467  
31731 86927 46577 59562 05243 97703 06683 41918 79593 49389  
00226 62446 32513 96526 04377 04326 41588 10526 68544 51403  
85017 52171 20652 38285 85814 61410 59828 32562 16662 50365  
65213 97588 07596 10505 75569 09280 23712 69912 19376 25341  
05073 61591 00102 30377 86013 88741 66342 05326 36033 97948  
21502 94630 89446 96214 52724 69624 56001 72783 83735 11519  
29637 11679 81315 62482 37573 05911 70055 18208 96921 09274  
35117 13081 00000 00000 00000 00000 00000 00000 00000 00000

00519 71133 15385 24681 97135 43091 85460 56080 07173 98247  
84821 64444 75037 09103 03292 10482 37254 98190 28126 78406  
29510 92078 07759 63380 67637 44990 63679 99685 32195 80502  
92650 40548 11363 24741 26445 25565 81816 29517 41285 96667  
32281 08846 34182 48551 59451 37284 08352 24518 90953 83509  
34905 93672 15057 77609 82991 70394 21801 35480 35593 62040  
85241 88806 33139 55798 41498 94039 12154 80650 42286 18814  
31102 05360 88628 29249 00632 58438 74424 26562 60401 81019  
94578 06439 69670 48582 97358 39591 03856 22459 85687 96950  
74224 17064 97038 67918 12920 93781 16644 45131 90516 17463  
03681 74155 58266 14103 00000 +++++ +++++ +++++

**11129/9082/7344 kHz, 28-10, 1015/1025/1035 UTC**

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

**11129/9082/7344 kHz, 31-10, 1015/1025/1035 UTC**

37542 12070 11762 28039 36223 24730 98195 10145 67832 45106  
96389 06033 88541 38503 30115 95755 79651 91580 08425 78364  
80328 94767 31482 69794 20821 27119 08602 61802 60860 67052  
05675 27865 62920 77399 64184 86990 55029 38214 58984 61380  
62816 25772 87042 88873 15492 61190 04322 76114 55431 77127  
52995 03381 06069 75978 46183 17007 77770 78012 02394 70350  
16392 82890 46859 99218 24193 92997 21957 42717 07805 72035  
73895 45437 32937 37295 07860 01934 90507 09068 28802 29427  
03891 65622 10064 79657 31958 77177 57017 25843 47618 17326  
57911 85673 96521 75330 39118 66274 65634 17741 66954 42080  
16364 72762 63278 01559 61921 35815 27042 23716 93605 19724  
78983 70330 85710 97972 71659 04839 33719 14466 31990 73827  
05500 58229 28512 12056 10172 26488 80533 56949 14331 24565  
51359 83506 60333 76028 92794 95554 66310 41536 33103 34286  
12617 69804 25607 90021 44384 29145 00124 28131 44882 93007  
84418 65051 59361 77957 87865 55345 74079 57543 64502 75722  
80184 00469 97670 16982 77151 06527 73418 19795 95457 38721

34869 15272 43182 75020 34724 56263 06220 28171 28110 50303  
56793 07028 72934 30167 49961 17807 29953 22951 12791 28738  
79733 03639 55905 46516 98698 44059 62070 78016 61437 93212  
31529 75699 61477 49866 88756 90144 67699 13379 80333 78144  
58585 23687 18610 39816 01480 26387 50872 83136 69069 23846  
58669 39376 10248 98300 17020 77829 17565 17849 68153 93315  
58448 61303 89500 64861 62378 22820 60607 09013 81210 82254  
58658 76220 64827 52177 37303 63722 19310 37488 68478 43368  
39822 68563 51887 27824 35378 93876 21865 23597 87705 43028  
06278 44308 11365 96125 17165 82657 07337 20451 77813 64522  
27247 60338 15937 33617 90427 91229 77655 40161 20993 73811  
41976 31984 97128 69202 40430 71511 29771 01097 11591 27069  
12867 75832 45131 11938 12410 96300 95123 69604 86426 30637  
67267 28635 53111 21643 09725 75616 49290 47862 62261 19609  
46409 72258 43375 46532 16224 39421 80096 86928 63384 07254  
10160 45555 67109 24065 11217 66212 99120 87010 36794 30280  
10037 42818 63674 12372 01417 16741 80392 41559 25632 80658  
71529 41603 80751 96292 77496 48620 92649 94441 34497 29632  
01491 76201 24346 50432 94806 47086 88846 66202 54346 20001  
88401 33324 08868 48000 09550 65819 10093 727+8 51120 84853  
73980 99761 43679 34746 54526 35941 81976 63920 42264 51050  
75055 94236 04672 48359 43738 27136 10643 55822 20149 60038  
06248 73579 28989 11440 33933 38746 55225 78126 12378 93425  
27901 72967 19179 66878 74743 16700 43549 07793 27260 82166  
01237 27592 81007 14423 28824 40705 40735 75166 99615 12761  
05062 84916 28300 52618 70408 61390 56558 09187 58841 77501  
36825 58972 99541 15433 00000 +++++ +++++ +++++

F06 – FSK 200/1000

Link 10053

**12189/10734/9129 kHz, 02-10, 1530/1540/1550 UTC**

11166 10053 15937 02001 00049 00000 00000 00000 00000

**12189/10734/9129 kHz, 09-10, 1530/1540/1550 UTC**

11166 10053 54231 09001 00049 00000 00000 00000 00000

**12189/10734/9129 kHz, 16-10, 1530/1540/1550 UTC**

11166 10053 75319 16001 00049 00000 00000 00000 00000

**12189/10734/9129 kHz, 23-10, 1530/1540/1550 UTC**

11166 10053 40672 23001 00049 00000 00000 00000 00000

**12189/10734/9129 kHz, 30-10, 1530/1540/1550 UTC**

11166 10053 75139 30001 00049 00000 00000 00000 00000

**12215/10814/9046 kHz, 04-10, 1650/1700/1710 UTC**

11166 10053 15973 04001 00049 00000 00000 00000 00000

**12215/10814/9046 kHz, 11-10, 1650/1700/1710 UTC**

11166 10053 25877 11001 00049 00000 00000 00000 00000

**12215/10814/9046 kHz, 18-10, 1650/1700/1710 UTC**

11166 10053 78451 18001 00049 00000 00000 00000 00000

**12215/10814/9046 kHz, 25-10, 1650/1700/1710 UTC**

11166 10053 23658 25001 00049 00000 00000 00000 00000

Link 30154

**10297 kHz, 11-10, 1250 UTC**

11166 30154 12356 10088 00049 00000 00000 00000 00000

**12159/10297 kHz, 18-10, 1240/1250 UTC**

11166 30154 25874 18069 00049 00000 00000 00000 00000

Link 40023

**20026/18269 kHz, 12-10, 0930/0945 UTC**

11166 40023 78541 12001 00049 00000 00000 00000 00000

**20026/18269 kHz, 26-10, 0930/0945 UTC**

11166 40023 75269 26001 00049 00000 00000 00000 00000

Link 40122

**19268/17548/15779 kHz, 05-10/06-10, 0600/0610/0620 UTC**

11166 40122 63259 01023 03579

32837 88725 50400 20234 53309 46131 12162 00262 97334 24667  
91708 06454 41192 61465 28387 78977 77876 57317 80235 53406  
04184 47481 82699 16427 18189 42358 13663 15774 45677 74104  
46560 64251 73940 74371 90586 37594 05443 49495 22521 20166  
39333 56814 12043 50273 91724 74829 16276 11660 46940 28146  
48267 94635 56888 53147 49075 75265 30784 15313 18158 86072  
82382 14154 81752 76670 26920 36668 03926 87784 44950 45276  
69995 87084 55268 11163 96991 40272 64090 28967 50869 15861  
82706 73764 75133 47081 30766 86258 60591 99357 67402 97144  
10889 16790 17370 26567 83554 46063 84397 19608 11199 61256  
68930 03752 32599 37952 32450 79265 88309 50107 75575 78413  
60537 88112 22111 54471 61919 21483 26244 86451 02929 54610  
45070 10499 92576 49026 43644 13873 52099 10601 24733 52473  
46329 65125 00466 77838 62419 70705 48064 84547 90624 40410  
16843 13976 86821 73620 78668 75332 21453 19490 39061 69926  
44582 20989 51129 29582 21753 12945 99522 05160 20336 72518  
46594 66113 51052 45572 57953 97016 94356 97343 49608 01997  
66373 60876 23866 53024 04075 81647 86203 42978 74377 81811  
60271 29444 36857 92526 43235 80161 14763 27772 68637 56079  
54022 98111 68962 92937 74916 87837 55101 67328 46123 43929  
54891 58164 35809 50263 77931 39493 19463 85521 98854 65598  
49146 88221 76237 34327 13872 77316 49352 39570 45765 01797  
79929 48846 51730 17740 31133 66917 75282 16226 00931 71379  
18244 50586 52036 31163 76995 36389 05639 43877 72962 22633  
91072 52946 82027 57555 68638 30462 92557 97512 67759 36701  
46729 32370 07655 92236 44844 25824 92713 23587 17324 94103  
99774 68336 94055 71501 99479 50667 25808 36138 78899 63235  
37365 94435 57619 16338 17100 47710 14462 40298 72658 89334  
67049 52012 07438 05906 71381 21592 97561 80847 33622 00045  
74025 23901 51279 93929 39710 74925 25967 97914 75936 55454  
14938 21187 18274 66442 13573 68651 06257 55647 86012 62847  
36731 03064 86124 17522 75486 97878 35990 98811 06891 05358  
54091 34950 26188 47108 50404 60452 04168 43169 30560 05706  
78882 89344 76290 67916 54103 68233 94319 24329 09202 17389  
50903 73681 50142 03042 34203 16811 56283 72829 11673 12361  
02654 85963 74666 68524 62419 23355 00000

**19268/17548/15779 kHz, 12-10/13-10, 0600/0610/0620 UTC**

11166 40122 84725 08024 03029

70816 05983 28612 96549 39339 39406 48505 53567 80448 66388  
97126 97923 72051 91375 46280 11562 13484 34170 85583 70578  
00240 22313 78106 92138 02307 01523 06328 33060 00809 37647  
75628 75980 62631 08548 67480 64075 57726 09369 59534 70238  
48779 19621 54785 11675 07923 05518 87017 45843 40198 56007  
94690 08680 18434 75927 80487 81052 59239 84731 98682 94363  
94803 94216 37532 11262 20177 63693 88875 42379 20732 56032  
22125 85053 09485 43033 04845 94942 28972 33539 37090 26506  
97359 22753 91713 03258 03481 86167 77809 03748 80490 66580  
69491 74201 12814 27598 67188 03759 56088 72088 83654 23248  
74777 49010 71862 13429 27154 97060 36988 33652 52326 98571  
99659 06860 39007 42107 02667 21878 80709 17180 78311 38923

47052 89536 18594 09279 25871 30455 15415 45061 15811 98468  
62987 00026 74099 96984 39641 47344 49186 56203 11213 65289  
52923 12810 23199 66774 51994 85837 73873 33668 83261 72175  
85544 41840 22732 10133 16144 87865 62821 84513 78340 53321  
77604 71630 58354 67625 80746 47694 51670 55343 05794 09025  
57830 78907 63516 77511 01497 12683 55987 89770 71974 09319  
52093 93426 98374 44322 54148 98959 02609 49792 10322 60563  
97409 73252 52541 84432 21552 22517 64578 87945 29470 82530  
10002 58147 77461 15118 74667 82995 73650 77581 03464 53797  
83919 21085 35970 62269 10978 54755 70732 40675 88765 86453  
12843 18453 59376 76132 84504 93796 24685 62735 03270 43605  
89875 50572 57646 20260 41043 66095 34754 08646 24073 21027  
79714 41868 16972 42781 91471 99101 12846 58089 84726 33997  
55708 40806 72667 07099 96309 59799 50192 20705 60174 87878  
82305 79600 45031 57700 27380 26111 89821 75577 49965 22906  
82487 29142 02842 82001 98706 49786 82990 63384 88778 15835  
91188 91704 54838 07370 49891 64475 85589 48656 59113 50206  
40752 99106 94984 99925 02396 78706 80662 20512 35357 38866  
24300 00000

11166 40122 95174 08025 02649  
84302 83282 23931 14608 23761 66272 77013 19041 82732 53639  
18893 66065 67986 40643 07873 32224 62420 17621 49908 93667  
53589 31407 99461 99139 42417 47632 64740 64945 61770 62338  
59522 02823 59579 36348 68752 16671 26202 50822 20091 29049  
70712 07453 78614 23417 75801 21717 06840 13015 85976 82637  
57272 72359 08755 77480 89661 92264 33527 04839 30149 44334  
97790 24528 14503 65873 55422 17732 82612 01139 26703 55852  
16454 59877 34761 01473 38684 79088 58126 89895 14082 98947  
54091 64688 20999 88821 32556 65660 85019 84326 85050 92724  
92017 21354 98622 94077 22795 78005 09271 52131 76487 60382  
74619 65629 74927 93151 70520 51408 65153 00842 41269 14209  
62253 90791 58110 57999 99718 73705 65752 37242 79517 82737  
21535 71530 39054 77046 56979 72052 77210 40770 16376 53301  
06663 13336 52114 28481 24650 12066 81445 12035 19388 33000  
34346 77750 54318 40878 47192 45860 97373 84226 81915 97584  
87451 96467 75342 40560 55279 69016 48386 73574 40871 07278  
29801 24064 74737 05493 74167 56796 15071 01371 78802 77185  
58063 96448 29291 77675 63557 53102 28306 00620 63220 04160  
87430 16110 43427 36052 86644 38182 20028 31433 31179 27832  
47211 82206 60424 56300 27623 08913 88568 27028 15956 47384  
81671 79759 33171 88638 00846 25203 33560 82919 66235 83693  
91826 43846 21494 26302 02364 13589 03428 41823 07945 75023  
46509 78074 99978 21793 76932 30955 57544 22216 75920 79691  
17378 37984 16945 91717 92011 83579 06567 45613 78232 37350  
83574 45556 23072 40187 56114 25707 39494 42737 81491 67977  
88989 87082 18338 81614 73234 33837 05830 18036 02037 70585  
49640 19365 25262 00000

**19268/17548/15779 kHz, 19-10, 0600/0610/0620 UTC**

11166 40122 12365 19022 00049 00000 00000 00000 00000

**19268/17548/15779 kHz, 26-10/27-10, 0600/0610/0620 UTC**

11166 40122 72486 22026 03599  
54279 11820 55379 93218 11356 15413 70941 91713 70819 65541  
75001 25880 44872 21339 28833 05091 70388 92255 80048 44240  
81006 17248 52316 81077 37512 35478 92593 81129 96218 46951  
68071 91157 20024 86533 30006 27099 61820 59785 86644 07403  
74969 14049 52408 67725 30503 43228 65539 17908 45754 49694  
91389 27169 54107 11763 53545 48469 70538 30172 59966 17969  
32652 52000 16334 90515 21889 95466 43793 97109 94602 24044  
43282 35283 77677 43330 73622 28317 08396 19106 35571 14252  
23226 40026 79018 50616 25217 73374 75513 45820 84708 87322

23313 53138 53016 38133 77139 88237 93798 45735 19824 56169  
61788 06126 18040 98780 83568 14017 29307 98461 20093 94175  
52443 99188 15633 64900 38674 30783 62829 82051 05560 47337  
38555 37094 20953 15726 90258 07582 49159 15171 77489 83518  
76493 33758 98278 18030 58414 72883 55081 75803 55433 95530  
39946 77703 49981 79346 43618 65027 61409 60430 18251 31824  
01339 78788 48423 98710 36514 61384 10139 26645 51374 03726  
22508 94057 27511 35918 21786 85819 82215 84141 12469 67448  
33291 63457 75121 43016 82321 62916 35636 20180 33589 08880  
25600 30785 90817 17506 88470 80462 98941 72327 11229 25679  
23079 87873 86216 01658 81896 45255 32835 49617 77566 10667  
33794 16770 89477 72736 65596 27503 23917 59651 27953 49194  
36891 22020 01809 01092 72275 92383 90667 79700 82490 57332  
24912 99107 23880 03150 33787 69684 43986 20935 14763 63611  
02903 82136 54933 40652 95904 20426 84161 32618 69529 80867  
64649 09967 48303 22298 46619 78961 14302 83878 44797 82838  
06728 51738 15385 05414 33697 86650 38207 00568 13423 98688  
33720 96051 86970 79786 69576 45039 69796 30148 36420 23876  
34235 39443 97616 99458 40129 08726 42588 14675 55801 24010  
98453 65351 36534 17447 79657 67142 52763 77036 80273 35799  
85166 90809 38669 29250 28831 36419 29224 24938 73690 52085  
60788 30854 53421 49820 86560 53693 79983 56877 55084 72575  
05991 96357 57045 91778 82102 42923 47552 70905 01621 14530  
48598 55933 49488 86150 61383 59579 97856 36395 43190 64418  
15435 62982 28493 47193 82790 28001 98996 47755 30794 18888  
32289 31069 44399 36068 83792 15721 98937 43193 81702 67371  
21129 40915 39603 80586 91971 50131 16452 26357 00000 0000

Link 60070

**9489/8133/7318 kHz, 11-10, 0030/0040/0050 UTC**

11166 60070 75319 11001 00049 00000 00000 00000 00000

**9489/8133/7318 kHz, 17-10, 0030/0040/0050 UTC**

11166 60070 54231 18001 00049 00000 00000 00000 00000

**9489/8133/7318 kHz, 25-10, 0030/0040/0050 UTC**

11166 60070 46825 25001 00049 00000 00000 00000 00000

Link 70059

**6848/5433/4840 kHz, 03-10, 0400/0410/0420 UTC**

11166 70059 15973 03001 00049 00000 00000 00000 00000

**6848/5433/4840 kHz, 17-10, 0400/0410/0420 UTC**

11166 70059 78431 17001 00049 00000 00000 00000 00000

Link 70202

**10541/8113/6791 kHz, 03-10, 0700/0710/0720 UTC**

**11173/9246/7611 kHz, 03-10, 1200/1210/1220 UTC**

11166 70202 18526 30022 02199

59013 77632 95470 75381 88629 48767 71001 75295 14242 80754  
19228 01138 83319 07015 62594 16868 49325 38188 45977 80237  
42894 11812 53814 72208 37657 15143 92965 54974 59110 23305  
52221 13292 10010 19970 74420 58790 10691 92732 02098 01968  
77776 20382 82603 21543 89696 94264 43634 85858 12465 40904  
75112 06029 84142 38089 78351 25506 81437 41594 68438 75761  
16863 64745 40786 52772 39904 77996 37772 93990 40629 20714  
76419 60489 79167 42358 23053 53976 89519 15247 25855 23353  
31109 86085 41279 40514 86533 58458 15248 50075 28937 23459  
05062 22707 07459 80659 52987 66780 24175 16592 47426 77990

00992 32943 32626 31657 59907 41641 52868 47401 65100 69021  
42057 80851 00266 36268 94661 22108 79644 08309 78944 05620  
16180 28353 78408 61180 95242 80263 72406 60724 27360 45949  
91847 40611 78386 49965 10940 04084 00549 08502 60905 33592  
12813 24961 76603 67669 04005 99301 12004 22040 57116 43342  
85445 59657 18250 19202 40615 39362 58618 43085 34186 97822  
03061 21574 86062 44487 23486 12637 53145 74190 20709 28524  
12581 27137 43095 22750 65418 50932 15457 28348 96614 44348  
76651 39569 52316 87517 49295 54246 20380 88245 90055 18967  
25035 99109 93938 44284 71661 85066 51023 82127 02589 46214  
79067 82603 49874 25436 80445 72387 95991 55579 96818 21880  
78364 25887 60014 93317 98685 72343 62527 22217 00000

**10541/8113/6791 kHz, 04-10, 0700/0710/0720 UTC**

**11173/9246/7611 kHz, 04-10, 1200/1210/1220 UTC**

11166 70202 26541 03023 01539  
21012 27096 84677 53536 53273 07735 76619 17424 95857 47619  
67001 04909 14982 70776 15691 88943 18449 06437 94881 35738  
38554 97296 99190 99015 22116 43439 33982 05386 76074 24077  
92855 85509 42098 64319 60224 30764 98624 39147 99930 80072  
13788 31781 15843 66607 97654 88627 95344 79033 27223 38004  
71693 17000 42601 64810 66143 45548 37827 58352 95806 78142  
94748 75495 58166 42995 33404 86334 28191 12382 77353 94578  
28979 99631 57379 49817 61887 53482 02009 93886 07052 04486  
88290 08485 30275 43148 51259 56263 57187 34505 75531 32549  
00629 98797 17470 69905 52203 12960 31345 62711 73918 12588  
97944 03947 50862 99086 79061 51374 90864 81683 46293 65299  
82048 08988 57597 85102 44248 69787 80044 36731 35200 67781  
82189 88330 97460 99909 44519 96210 56986 92999 61394 08329  
09308 78389 32944 17486 54240 09235 70326 81409 65068 50172  
62818 51926 03137 94040 80150 80393 13796 85332 08535 91601  
64622 23151 00000

11166 70202 45712 03024 01799  
44195 09310 79191 03091 84817 78452 65889 95711 14571 15428  
66724 54182 50969 80445 20902 40332 07144 34057 80661 37789  
88417 13781 63169 55219 27255 02633 61895 26932 05043 31729  
28389 65534 34106 84161 60409 46324 98429 92329 57340 28109  
76503 45923 28826 40141 94732 52725 67567 89844 84855 19443  
22217 71046 43796 44744 31309 77361 19407 41691 04159 50465  
70515 31744 59676 17895 74735 77551 59029 00107 82461 46688  
93083 91445 40496 23532 10573 44738 33743 11490 97927 14178  
18407 92721 46697 36208 45126 37593 69517 53068 95495 81004  
50533 08719 80398 07812 41254 71802 73592 14518 37735 65353  
78991 39413 00062 07926 55070 78368 00040 95842 44843 28455  
08063 81239 84836 26588 55066 25596 91515 75371 30515 33451  
48577 73345 02376 95969 43566 91807 69984 99072 27247 65409  
85773 75792 94159 88707 06777 07567 07813 35860 61862 04137  
18938 45651 45619 16749 50247 39045 74850 64346 46137 61435  
68589 77432 10767 66796 37603 89305 82955 85914 94292 29330  
21329 45887 18951 97964 98167 33084 43296 28198 25371 16745  
37239 63113 60996 75418 09802 04240 69801 24177 00000

**10541/8113/6791 kHz, 05-10, 0700/0710/0720 UTC**

**11173/9246/7611 kHz, 05-10, 1200/1210/1220 UTC**

11166 70202 62547 04025 02339  
96749 98548 65812 78839 79420 43955 21756 46396 72696 69327  
51307 46174 24569 57962 62622 52332 47707 57554 90921 99738  
85270 03014 81345 41993 19788 54624 48465 92757 98546 18712  
48403 30068 73913 43027 24472 68329 82042 04018 12305 27665  
08395 28184 15379 55326 13514 14707 86899 78832 17495 51531  
78959 95541 66575 42087 44929 28332 30299 84858 06001 02087  
02685 72954 17833 20664 05830 05897 98231 49043 19396 30803

01802 30338 84413 55147 52507 92356 54839 98291 70083 23401  
95300 73975 51232 21990 48474 20950 91537 50204 20529 23942  
59046 45318 58074 92140 55441 69433 15045 87388 25752 01779  
32972 19271 02540 03377 83065 49278 95491 08767 43552 71252  
62357 24453 10702 60276 22180 38790 66991 07216 96744 72979  
54821 81089 91184 27860 29252 86463 49691 06200 88167 08049  
47254 15147 03326 59691 03375 78557 00725 79949 28695 13871  
63721 41439 40466 53217 57338 66134 07807 13458 97210 63811  
12687 44837 11582 35830 37587 16372 14143 94046 65321 75733  
86613 40780 74523 85571 50073 37648 69722 70466 47828 86845  
88042 74794 88479 62013 07719 13734 92913 67562 25679 21323  
53281 48978 68061 96772 83277 38005 84878 21568 22442 67855  
94788 27071 92883 50611 40905 17288 31894 34037 43565 76504  
48875 79964 61023 16478 80021 31449 93984 42856 39192 60886  
94924 45528 88412 16267 68131 42591 76440 07770 71408 32612  
18844 01872 55377 34883 18008 15165 01311 22344 46529 25067  
43443 25231 00000

**10541/8113/6791 kHz, 06-10, 0700/0710/0720 UTC**

**11173/9246/7611 kHz, 06-10, 1200/1210/1220 UTC**

11166 70202 95137 05026 02119  
64513 37336 59336 68062 76833 28934 68384 73966 36519 12457  
82859 87574 95404 84456 47407 16575 89174 84556 41183 36883  
73169 43252 60577 25063 78219 29800 02441 93175 78677 61152  
52481 49521 89846 57855 08525 33691 37001 57863 93324 99371  
63158 24197 36614 43344 67825 07392 31078 04112 93879 48661  
91944 78588 04783 34729 74872 30303 19319 40251 31832 87531  
96034 18779 09655 54818 84577 28190 20951 86307 86113 01535  
42078 94331 90014 99225 17849 91690 79005 03515 77657 91058  
19953 41189 92728 09961 82487 45436 29162 54750 52644 92793  
76467 82026 33712 76148 56269 60936 51475 99694 40889 84787  
06043 06813 36459 05417 37436 76789 10292 88751 97144 51328  
67163 15001 42822 76775 04218 71906 98312 73015 99165 14506  
46201 64955 11479 89830 45065 37547 01250 49991 88624 00288  
95427 02067 48975 72121 56094 68258 71084 22695 30483 54732  
10756 30898 87425 52587 33226 46620 69905 19394 14601 66675  
18416 14733 13310 60824 44813 88178 03766 08821 61329 43162  
89421 34448 94464 25145 37407 47449 38421 07553 01935 29315  
27776 73896 28665 23853 34086 19528 57217 18483 16097 21454  
64004 27184 78258 49657 12598 11052 17231 18367 03794 97380  
61058 00691 42574 83219 30715 55084 64148 34346 78692 37055  
86271 15581 84336 94572 80010 13385 10600 70596 76160 26209  
00000

11166 70202 15493 05027 01819  
80636 64054 25957 53887 82442 78722 97702 55718 62461 10006  
94341 61405 10306 80942 80941 20687 71615 79474 70919 44174  
92095 72382 64459 39208 15556 89237 37033 96206 34393 68564  
38952 30187 15954 83394 91899 07151 53209 88408 93362 10020  
13189 55835 64921 23812 81601 92322 05313 44741 27089 53943  
34233 42931 33543 01536 37781 33427 73925 63564 51514 35203  
24036 98683 42033 22838 39652 75208 73039 00556 45485 09646  
66803 53320 09399 31520 96982 54665 00308 66631 73721 35953  
53213 55982 06975 46740 89803 52514 58993 60950 68055 62881  
21906 08534 59277 26419 81332 37303 76036 48515 51980 34627  
99395 30559 96136 63683 78911 63658 61023 93944 03813 78319  
95920 30590 68823 67266 35032 72533 83035 23595 56992 53747  
95296 61444 56984 47583 34536 11376 92385 38756 88472 07650  
87889 92702 69127 09582 11039 76985 38608 24163 54099 14438  
93571 22150 83225 72730 31818 64787 40852 20054 49455 83370  
12232 01603 42061 78820 92087 16548 08298 33473 12288 00182  
79389 52258 16499 40932 22930 75461 92746 86916 94435 30257  
99831 21751 35098 13198 48515 14267 39157 20847 23447 27179  
00000

**10541/8113/6791 kHz, 07-10, 0700/0710/0720 UTC**  
11166 70202 97531 07082 00049 00000 00000 00000 00000

**10541/8113/6791 kHz, 10-10, 0700/0710/0720 UTC**  
**11173/9246/7611 kHz, 10-10, 1200/1210/1220 UTC**  
11166 70202 25476 07028 02639

88444 35270 13668 79490 65100 37270 51967 85816 37560 37226  
07498 79630 74468 96002 47843 90146 53308 33117 06117 35536  
02997 58473 33367 53732 01663 79966 30385 30212 59277 35420  
01092 33679 39842 22256 94696 95600 02813 23377 28809 94523  
68451 52664 10697 31126 36788 68544 98878 04909 14886 29064  
72234 28506 32094 86901 98820 40514 47976 47761 21582 02805  
82602 40578 03148 93238 23890 72986 96889 29735 91687 70468  
36450 86624 63277 22640 60898 89216 89999 85100 17735 97542  
59670 10283 10902 15180 84490 05753 86010 84120 19132 43377  
69957 51616 38684 67820 07124 19921 31154 77781 59345 14891  
84201 78433 61840 34370 70805 28489 52280 62291 63535 30325  
15190 59442 32132 36624 08874 66832 04070 71945 67043 82585  
92802 92682 92343 98314 23359 33832 83955 05902 10009 16023  
66475 10626 65646 11226 12245 11578 47615 90607 74332 35296  
69638 02938 72335 33564 34553 57002 98217 81304 67530 06466  
34339 35506 54473 60606 00887 41130 15279 69364 74890 94919  
66644 56155 48003 03061 54124 96860 15239 93625 58097 68458  
11856 69744 03365 15718 40576 14428 27029 09392 56315 82996  
84379 94358 00628 44041 97444 51139 03045 54854 75904 19229  
91489 82273 65062 55686 78967 04878 00551 27414 18710 57454  
74458 60563 44967 03709 42582 95509 41626 48114 27467 20832  
05858 22875 96939 84733 98955 10915 22825 07337 01590 90842  
49510 42299 15625 14828 27076 61186 79714 55323 88653 59028  
90858 81568 76715 04507 49091 51826 47974 83217 67516 32268  
11588 07425 14851 78465 80346 90761 82679 40410 39539 11314  
94604 77012 63185 11513 99480 91007 32312 08288 15909 20205  
34974 28261 00000

**10541/8113/6791 kHz, 11-10, 0700/0710/0720 UTC**  
**11173/9246/7611 kHz, 11-10, 1200/1210/1220 UTC**  
11166 70202 42318 10029 01599

46197 90094 45058 32405 32713 81630 35675 41114 08962 99340  
71309 78438 09997 69840 16753 01907 66307 34812 01578 40213  
00541 78363 75695 64770 54008 03319 09548 84402 28917 86117  
87362 05377 57260 65018 66910 23949 32304 41288 04210 43618  
63610 98067 66602 34277 41534 66603 82652 75441 22131 94522  
02298 50754 68407 95857 65686 85937 08859 87484 04154 47401  
99237 41685 21752 43674 98466 09501 30797 96854 94664 94580  
39850 76280 42196 82207 17573 11575 95702 53177 80914 27289  
52037 37238 81032 66308 36049 85765 85424 94215 91157 68361  
79675 01801 60639 23070 37276 47899 70584 14887 30944 09754  
50447 82269 83892 33084 52129 76309 84464 99040 53543 22277  
12600 50259 57574 58210 51539 43163 22401 30253 83236 18743  
84094 49403 90887 08964 57445 39389 17028 21019 25945 30336  
50640 66589 56865 77925 41696 28322 02384 12734 66581 80696  
72662 49425 92832 07474 91856 10504 16638 82917 72956 44298  
71513 08969 72423 41878 31624 25570 10544 29157 00000

11166 70202 24815 10030 01839  
25390 09827 01704 01376 85283 78094 61168 59937 37302 99375  
99185 36493 94519 68109 08336 70874 15742 51546 65955 30215  
13853 75212 80228 33135 45504 15122 69959 42388 43094 01401  
01487 43151 74965 63038 31152 49147 44761 68429 26782 03784  
65887 41408 66609 68504 71999 57460 39067 15530 49470 49791  
91905 67184 02765 79955 04062 48987 88660 52716 78720 48709  
80255 79833 81000 98562 46701 22463 68712 22735 59589 66862  
89618 17433 61942 13076 43632 55638 60734 81307 33400 33757



28889 65643 51694 02351 27685 89834 79066 48137 85511 44818  
90188 19448 93900 12655 92321 12329 06797 06594 44354 59479  
53974 81923 29840 89201 04557 97324 82487 46563 41570 31389  
87512 93951 33476 84003 07321 33213 13602 17290 04938 16559  
03427 15779 63630 38430 40657 70508 26162 25503 98012 16736  
02107 67036 03685 79960 16674 52722 99381 09915 99471 10262  
96918 07252 36648 59821 19276 72583 34848 27580 37063 32572  
70431 85538 36340 22765 22372 09794 78715 31846 12293 74450  
39672 37010 00064 23370 36051 85129 08409 86936 78632 99416  
74944 36028 10752 16257 55109 90389 18893 81907 24400 23575  
26184 30181 00000

**10541/8113/6791 kHz, 12-10, 0700/0710/0720 UTC**

**11173/9246/7611 kHz, 12-10, 1200/1210/1220 UTC**

11166 70202 14758 11031 02199  
62365 51218 60800 55453 88145 02278 19006 21466 95357 35323  
25291 38955 16944 33000 57613 96327 62979 60890 94928 18606  
84823 82028 58538 17939 46410 07068 31663 35215 51092 22278  
68181 27488 97493 62556 26456 80887 62809 21661 89202 53695  
36973 16819 55331 79304 56152 49931 14694 83708 08988 32541  
41684 97243 14032 66761 68616 65252 91812 99344 24833 87354  
79962 91085 52472 40028 64853 68747 34826 62176 28176 51684  
98241 08363 31887 70372 73492 99419 89989 19014 27558 25103  
00553 09413 01753 78484 36427 18304 17140 26769 18095 45337  
33169 48233 17080 23882 70469 89950 63359 51856 33749 26018  
55228 34766 95720 20953 95028 58130 28005 27951 99206 31498  
89943 76700 56118 71229 11256 30429 30023 14233 29489 16882  
34718 79848 68181 62907 25224 22069 66692 87348 80986 39265  
97627 31921 79012 33638 32799 34764 80388 37550 43661 76360  
78614 48942 47149 52501 83191 43029 32876 53995 36899 52435  
32603 57794 90204 32995 17945 59245 81239 57363 37222 00131  
94773 03667 27425 72206 98638 31347 62200 00907 81022 61403  
21816 38922 37089 03220 96039 24321 78342 95158 55858 82909  
63193 51113 54986 79523 72140 30201 47095 47928 76031 71794  
29704 54018 70822 63066 50670 72009 77277 31247 38207 78305  
29046 77772 40387 92725 97565 96514 85039 21784 27205 43282  
96012 83713 79109 48779 26705 19900 07172 31217 00000

**10541/8113/6791 kHz, 13-10, 0700/0710/0720 UTC**

**11173/9246/7611 kHz, 13-10, 1200/1210/1220 UTC**

11166 70202 41567 12032 01499  
17901 01221 33705 65722 49573 91692 61751 60073 70347 32747  
13394 52369 13477 12794 16393 84998 83849 95997 65184 73187  
47804 40098 53713 87901 41397 06509 69687 45882 14320 48641  
79949 55240 51645 89391 61646 90067 40592 23720 58889 92472  
74501 07267 69585 25512 11201 16945 92141 25423 27958 94438  
86707 26627 40199 08548 30665 57902 76183 97325 73042 33212  
24827 75931 17538 85572 98852 21146 88846 17446 80467 68481  
61979 66062 41736 82836 59249 07128 56862 88612 44629 45341  
48536 70244 70154 65172 35570 79080 54068 40328 73971 07547  
95386 25347 08679 16533 54587 77763 78113 26938 55088 84270  
38765 11316 85219 89326 01972 46553 05372 49648 00106 13525  
90005 63001 24332 54653 59214 44769 01140 25317 79522 50693  
99837 00050 38611 69249 88178 19456 23655 32096 78332 88788  
57966 16017 30366 64124 75618 34812 05440 87076 38750 44562  
85890 53976 27233 10717 04403 30465 55389 32147 00000

11166 70202 42938 12033 02039  
92465 42550 86518 03803 51003 83686 19511 30614 20752 43213  
32672 82153 47655 26405 05177 93343 76521 83249 91738 36547  
38174 87966 38904 96823 94517 08060 49115 85967 77445 42622  
90956 87494 82537 34558 79026 49774 03472 86425 71888 69497  
18111 34573 61512 32658 62169 61266 52662 05252 51430 49494

55670 90854 38425 10135 41012 97297 14530 36172 29150 79602  
93402 63652 14062 51379 36714 44066 43895 81860 08095 57841  
07196 20781 66242 23641 98133 18261 33130 83147 59173 31913  
98250 66019 24621 38326 44828 64717 13494 91147 08941 73876  
45133 92924 07499 73918 76019 72906 95999 63589 81208 87988  
42006 71113 28838 88993 25290 98638 21138 19468 00565 79683  
00380 39184 83768 54249 43208 89544 47798 91302 91787 43058  
38676 13300 95198 04095 48044 02461 59533 53089 02961 93459  
30115 51397 58906 82235 54283 48977 06960 05597 98187 62095  
31063 71319 16016 13235 76329 43420 95111 50406 14318 12289  
25392 88027 16223 04380 66539 36587 69908 11131 11368 13254  
01724 41818 68824 50639 89055 30015 15063 45885 74521 48362  
86009 17274 17776 11316 09880 60548 45843 70579 03071 22120  
87928 32890 77869 31366 05633 54869 35414 59188 54523 94596  
42350 95038 37982 24618 14611 59580 39278 36069 56769 95183  
42807 33201 00000

**10541/8113/6791 kHz, 14-10, 0700/0710/0720 UTC**

11166 70202 12458 14034 00049 00000 00000 00000 00000

**10541/8113/6791 kHz, 17-10, 0700/0710/0720 UTC**

**11173/9246/7611 kHz, 17-10, 1200/1210/1220 UTC**

11166 70202 96358 14034 02539  
49564 14627 69348 52822 58597 49946 46214 86056 07085 92928  
08689 60351 08792 55645 08312 64348 36585 25742 74888 79947  
39392 19996 28023 58764 18243 33284 65717 83848 28587 18905  
09698 15082 01063 61170 12176 41713 97908 26239 53714 90460  
47215 02092 86899 62609 22188 63620 05500 98562 57623 23743  
43801 93258 20773 56491 35805 10916 78796 03010 88975 72524  
29981 96407 52228 14533 90916 66388 82842 42161 56817 09604  
41988 25780 77175 36672 73549 13799 13932 31791 45945 60490  
74359 85880 61616 92191 35832 89212 63880 60333 04686 94435  
95837 54706 76341 85954 91013 75433 88889 16595 00428 87063  
87313 97490 85777 03233 40556 52128 33420 75333 78591 70494  
68845 83615 41713 24251 76318 54177 59216 28892 53398 50267  
99659 63801 54991 11337 59894 86165 06656 38296 85056 99668  
91822 48380 36701 63909 42640 48100 51262 55478 89107 97688  
56046 16634 46208 65485 34916 52514 43707 95706 60884 62819  
28322 38028 37777 18906 92939 12426 18175 22224 12571 07700  
89807 05052 91732 37134 47592 59434 52943 99724 93509 05303  
21020 20403 31490 33673 82857 67707 49514 85891 27393 72332  
06107 54851 95426 94992 63411 19112 93995 17042 34033 45876  
54986 52284 33841 23746 42674 03412 57916 11202 39870 11513  
21827 11747 67376 72078 35427 11639 16426 15955 01363 41169  
98798 78673 55467 45405 44298 06597 91246 75345 00286 73317  
35629 35429 12945 04752 68171 48318 94977 36360 00912 22911  
09412 50932 61055 36517 24210 70377 43677 67121 17361 99960  
26631 36693 37160 48407 64861 51459 47337 72339 06282 50094  
11749 34251 00000

**10541/8113/6791 kHz, 18-10, 0700/0710/0720 UTC**

**11173/9246/7611 kHz, 18-10, 1200/1210/1220 UTC**

11166 70202 25468 17035 01539  
74691 74093 50254 22345 41904 73541 17444 73191 96302 74774  
11918 97542 30222 66405 86378 82132 68414 02628 39012 29002  
51628 14902 40681 35207 53895 92106 04398 83952 56933 46323  
83024 76834 30121 06459 06136 61885 89480 06888 91968 37110  
34092 63303 95419 34194 83395 52954 78009 12078 63802 41475  
10754 15079 18069 23478 45890 75254 35854 69105 18382 63690  
28907 93724 63151 20400 99326 92959 58969 17530 74318 10233  
34939 35546 05895 29024 00529 57100 58958 07020 85056 08263  
36193 94340 97605 01800 13220 03046 43270 62190 82434 20091  
56701 37074 28979 80927 38864 24805 87277 45938 07960 72812

51581 46893 00447 26446 38944 95606 83091 32998 28090 71997  
62000 30589 22586 33721 99553 76604 11776 14581 75191 95369  
27902 03892 50984 49747 22857 23983 27924 66354 13004 48049  
03879 69077 65494 25500 69140 00570 24537 07034 00517 36435  
01034 86596 39882 21768 74043 02428 68149 84744 77494 64370  
10588 35151 00000

11166 70202 45682 17036 01739  
27676 26222 33626 61325 64759 89364 88260 80565 48623 33610  
67220 29554 92164 82501 58509 74759 34931 44784 35912 10367  
49192 63522 98314 23652 10564 87965 22800 29207 12873 66609  
23699 32943 31939 84886 34789 11821 67982 95919 56819 20248  
21323 17784 37558 59056 81068 95705 76551 68034 31484 52642  
71766 27919 05719 76680 50327 82801 41586 18683 50514 18880  
19086 98634 47221 60503 84340 44108 38058 69426 89662 09306  
32285 58235 04403 48094 09768 53867 76304 39493 42135 72162  
48020 89030 93337 89391 58502 54426 41785 21696 83934 69016  
91250 48368 97907 61382 62736 39925 55523 94598 84484 76901  
31104 73552 22312 70299 64206 93765 17477 19640 93629 30159  
24242 69552 84088 89191 64335 50826 75256 72822 40498 16886  
07859 27724 76294 11604 06505 78180 74383 29400 23942 66130  
10433 53571 76425 46754 04867 83769 24893 13088 39630 88587  
81618 48062 12166 44175 47049 27428 43779 44827 06505 21994  
84588 96485 41425 72623 82245 29083 34855 36420 06613 88681  
75862 27538 47581 95321 92559 01067 28227 77541 68432 53411  
00483 36171 00000

**10541/8113/6791 kHz, 19-10, 0700/0710/0720 UTC**

**11173/9246/7611 kHz, 19-10, 1200/1210/1220 UTC**

11166 70202 24685 18037 02739  
91727 33176 13894 50204 47147 92730 69556 46002 53705 64040  
22121 05993 24951 03987 76672 33995 46951 52743 58271 51285  
80945 65801 65831 34725 97740 04683 19448 22175 48527 09794  
18379 71130 01813 03827 51853 81519 01158 99182 29900 18595  
23394 07829 26382 96867 42020 77027 51429 11005 25470 99399  
95449 24645 24914 70719 11914 53054 31314 93921 31087 00577  
06401 52722 21921 38797 17256 03316 44266 36373 29208 57569  
58605 76455 36706 56161 85496 22655 36874 55101 31911 19471  
75429 74059 26652 38137 19648 79958 32040 03813 38071 04252  
24063 65055 91636 17328 58160 91526 65925 08489 62849 10846  
99204 44928 28366 20548 85963 08149 82508 36077 60622 31259  
70888 60748 91104 85596 83748 88626 36963 90087 96560 76245  
51739 41813 16576 44116 34253 91194 52522 93955 58503 10251  
49631 52583 36869 27362 57186 78399 96301 26960 20776 91417  
72188 37621 16446 12754 49582 56950 68926 24538 06485 86740  
21136 86162 38858 76809 47140 67823 72077 00970 25748 87283  
88481 13571 16954 60790 25733 60032 08386 04099 25666 39831  
23968 44524 38308 45364 11978 29969 10764 25118 54681 45859  
15652 44610 66741 75933 98782 43504 74580 67807 50754 12366  
93889 89270 32168 37478 47470 86237 07142 87165 90593 78298  
64816 38058 36066 52807 33530 64730 96193 43434 17359 41163  
83824 04140 09717 27455 39662 14491 63677 40227 78034 77257  
23737 30154 68310 94240 48680 15067 94146 31255 80253 42052  
57752 08214 37325 76999 21365 75237 40214 45025 03115 60755  
94895 70209 69479 02494 91742 88094 91498 97330 98520 29367  
56954 30927 52292 98170 55689 73079 79949 93492 80262 49738  
02039 47040 09119 27619 99574 76075 64471 72351 48535 74613  
62074 37271 00000

**10541/8113/6791 kHz, 20-10, 0700/0710/0720 UTC**

**11173/9246/7611 kHz, 20-10, 1200/1210/1220 UTC**

11166 70202 32958 19038 01639

04105 03422 58601 24580 15322 50669 47429 15543 23690 57441  
91782 18974 95165 16383 44217 19304 35171 45996 29162 73228  
74924 16007 38473 31216 97693 72424 25520 51682 28444 79508  
83738 37534 35298 20810 20606 49760 16245 26484 62952 77763  
69546 19063 54566 71119 71266 94868 32012 62439 08378 83261  
89621 36050 40857 50903 69571 22145 91236 43234 38002 21124  
85020 80338 33103 87787 90431 49396 96119 30089 30901 60900  
21196 02121 68756 60836 85005 96024 83533 16000 42113 62520  
93358 14653 96983 14732 92831 49693 88599 95003 05853 76537  
48604 09389 76828 62893 18929 59506 48689 72615 39820 26444  
01172 50831 44217 86404 47774 02526 19420 62770 14865 81765  
21971 44289 51332 33762 56705 24057 42259 56946 55895 38987  
25026 77256 19424 14463 31297 51820 01946 43839 03324 44215  
57943 57513 58001 38501 80637 61217 97114 84206 95685 48247  
87219 89468 95594 15302 57579 04493 25805 36620 89617 62541  
58360 76107 96302 70621 14121 42145 14919 67078 19446 14750  
61645 38161 00000

11166 70202 18742 19039 01819

69550 74739 94990 77264 66226 86413 26371 56927 66904 44497  
04607 58967 90312 21998 66586 02091 76236 24172 45208 58863  
02924 94279 91905 37109 37782 85844 31693 23892 01074 99853  
42923 53044 47277 10341 78936 82155 93819 26778 73790 89986  
51854 66728 99260 30217 38783 37187 65300 02487 77194 48052  
81140 26658 09927 06161 19224 31234 85921 63331 49162 91881  
96573 16844 33894 80984 67252 85801 05242 14170 33685 11809  
61046 04745 57895 57403 51078 61984 63379 00677 43899 94198  
94199 49528 91869 02527 27708 23982 36494 76387 95551 80008  
21273 26535 92680 73290 04279 16640 79025 86361 87612 79348  
03537 67567 05948 27752 05280 55279 41344 98202 71265 85794  
56519 85416 55706 08373 63763 55792 90385 55835 71681 49901  
40830 44164 76968 10068 87965 99552 93372 93982 39956 36326  
35071 60297 03898 34180 96616 37121 72069 88176 96657 09369  
02420 29932 77612 85892 97980 43423 78496 32341 14891 23877  
23067 80669 53726 53149 90503 51255 13814 90052 60781 48547  
15219 99060 51951 16184 18108 65831 91490 62527 94142 72978  
88930 92538 29634 34540 01942 06945 65102 12576 13059 39179  
00000

**10541/8113/6791 kHz, 21-10, 0700/0710/0720 UTC**

11166 70202 58932 21037 00049 00000 00000 00000 00000

**10541/8113/6791 kHz, 24-10, 0700/0710/0720 UTC**

**11173/9246/7611 kHz, 24-10, 1200/1210/1220 UTC**

11166 70202 85417 21040 02659

07007 32086 71237 27000 87018 24026 73054 60254 41992 81758  
72803 98302 48190 89691 83017 31329 69102 03139 44605 60534  
69014 09917 03556 25404 68081 99451 25235 18960 37344 31597  
07225 95686 57112 22344 76629 01826 87183 88617 82796 82717  
22301 19340 21380 46882 31305 64946 50691 91523 03421 62556  
86278 19154 50108 38965 84653 00011 35909 58663 52130 59967  
36748 09058 39686 98616 49103 40091 09804 67221 98495 00443  
86224 61209 20736 37496 22539 06914 14355 53265 50573 47232  
87675 33467 94496 55909 48934 91925 61580 35106 12922 97491  
45568 75970 22559 75673 03568 86874 08846 02163 92427 19023  
37640 30436 75513 44105 16680 20639 35839 63687 61295 61909  
56480 55035 42263 05361 54208 83044 64210 49890 77291 32974  
48033 48005 03387 43666 15758 23865 98468 45946 01269 20703  
22731 35881 35367 19846 94402 37594 78577 98492 47402 35307  
00140 18455 43789 79324 26644 63038 26925 95616 08716 64260

26307 53709 79219 87584 49989 72563 01393 66362 25546 69129  
30364 03172 75505 79258 36489 80231 38190 05677 63936 46095  
69910 72688 22967 70790 89441 92304 39342 86615 50721 71492  
09297 56754 54708 15219 33519 38921 36339 04985 28571 36211  
87524 57534 39185 52339 02107 93428 99879 93465 53740 70169  
19327 83793 42609 59558 85916 87116 71941 73991 17942 51519  
40232 71354 06856 19400 60138 93224 27033 70021 39964 16065  
10467 86768 88687 20086 09850 66289 30452 05481 98475 11733  
39477 10696 80380 77250 31307 12459 09191 55946 71354 12217  
39091 28489 86657 38695 56364 14539 91804 21258 64925 94203  
64952 13749 24311 91702 34882 73519 63537 38417 65022 25313  
19277 57532 45390 40263 00000

**10541/8113/6791 kHz, 25-10, 0700/0710/0720 UTC**

**11173/9246/7611 kHz, 25-10, 1200/1210/1220 UTC**

11166 70202 36958 24041 02119  
89877 15872 63700 13932 54561 00097 39933 26022 46494 01445  
76493 64856 55486 93848 42432 47632 02268 29665 18061 43566  
46173 46847 74564 90680 62843 26211 04093 65040 84137 59746  
05039 25862 17439 15887 52167 84938 86542 12702 06307 73828  
61310 34929 43270 07218 68287 55796 06708 65932 99459 49560  
14571 47998 61343 05718 73872 61217 31597 80795 83445 55681  
15337 48694 29366 19661 18352 35493 02749 87318 79392 49670  
94588 31668 28736 43666 47341 41227 65208 67737 67926 03808  
68849 02029 31856 45857 91403 77811 33145 00815 91844 23809  
59729 04908 09093 98567 99042 43822 89137 94795 03470 98696  
08733 26614 70344 64860 62869 35650 16184 41775 08201 76925  
49855 17596 79614 70456 74347 96799 22133 29523 71852 44324  
05342 01528 51829 44640 12512 82400 66742 99211 21630 90460  
25168 10758 20500 10707 56949 27789 23123 45440 10090 47814  
79526 32177 84072 02693 96244 14793 29289 74543 09624 78808  
67277 15658 79157 86793 11443 70864 93013 74790 92950 25757  
02974 95719 21492 29254 30941 20689 35593 63898 14220 34156  
22163 62359 81761 83870 09971 93560 78542 71547 66736 66869  
80279 95186 54515 27794 65670 79005 23078 43625 38330 51898  
45966 02453 15629 60364 28906 73995 26615 26859 45276 05695  
86197 89480 78316 52488 37795 83947 74756 63721 81622 41209  
00000

11166 70202 14752 24042 02019  
62978 74621 87475 26926 34947 28346 84010 41647 31188 34735  
01935 61447 82555 60731 14312 18420 58376 72271 22384 51558  
92561 08621 45991 52626 81702 16574 13319 08610 66065 99200  
23383 07931 29443 58835 79722 02629 78784 38987 18709 43680  
89549 94867 80928 31651 27730 47219 99067 49870 84453 99126  
00739 72307 84139 20512 49683 63349 52116 29985 73792 11657  
52654 28753 53388 65287 33342 66257 68182 60279 36751 42250  
26376 59880 65324 74970 24321 46604 10419 90131 10184 34314  
81454 10391 50057 92501 96090 49994 19942 99975 17378 44293  
72048 70116 48823 68799 48859 14913 23296 27490 43371 39952  
46726 15026 28974 87547 82521 82598 07393 70210 87642 62064  
48137 61631 36282 28071 17886 37375 92075 02866 23259 82463  
14780 33459 15398 08048 12372 95843 29804 44345 74488 05949  
59866 02036 48151 42020 87525 19298 41715 08122 19488 36685  
67981 93423 02465 67015 62400 06990 15833 52469 37315 92736  
65190 26083 58175 54259 25216 19824 52663 44199 05291 86433  
88664 97860 36308 27231 82027 15750 02115 43058 20043 24720  
64012 50558 11581 72430 51768 30972 99836 34781 19570 03644  
98595 41031 90351 41419 37983 46280 36938 70129 30622 05991  
73452 19338 94132 32268 55399 16551 90922 36544 11892 42199  
00000

**10541/8113/6791 kHz, 26-10, 0700/0710/0720 UTC**

**11173/9246/7611 kHz, 26-10, 1200/1210/1220 UTC**

11166 70202 85417 25043 02759  
46091 60817 15532 47185 84163 29139 12076 30265 29781 50413  
94841 78324 02462 81882 23267 29640 74028 59870 40067 78330  
92786 89464 63442 54140 76178 76502 90706 59342 89069 87761  
43036 11218 49869 50325 06014 63532 31672 26035 45661 05453  
50610 21985 04651 61351 58592 22985 08377 39916 82627 56937  
35582 06022 77926 29057 33215 73789 86943 85880 80223 44276  
21581 94995 29951 36230 10713 51433 85842 83350 80233 46650  
90131 96489 57812 61061 30208 14229 19544 66026 92344 90280  
20676 46262 17483 91133 77613 78593 38744 02397 93375 27992  
05379 67267 43697 46839 22822 05573 65963 88346 63551 86804  
18165 70074 28433 55608 00057 48489 63248 33137 53713 90486  
60070 42734 85668 52832 98209 33362 77821 05444 04383 99226  
79300 59465 36815 19027 96470 86053 22955 63276 23276 36836  
05484 43121 79097 01961 76325 99106 46323 66679 03320 53317  
24808 52409 79265 73337 45416 53198 48013 21464 09839 03544  
87296 87606 48858 38491 52988 29328 16267 31961 14469 67435  
60615 24232 35799 10588 41973 74521 82380 07342 85908 99603  
57784 49073 91849 84398 00456 72215 38042 75473 94957 33258  
50262 93385 77463 54928 26497 24822 40163 67005 34763 80449  
64294 90204 26261 29429 36467 36556 31049 46535 27982 24737  
28418 32797 41815 33772 09172 95622 56977 43555 71981 99331  
24920 35628 21006 22030 97673 52643 56982 79775 92419 39958  
78948 03967 22175 17802 38805 82884 47271 57439 15891 03341  
27327 59775 03772 53355 78396 59842 26421 71811 64981 05607  
25980 56012 81588 84518 89291 63096 03530 96265 05388 66229  
11652 95145 71125 51524 20668 50510 87149 66615 65804 98713  
11380 56839 27424 85002 62202 49940 98328 18777 88555 75256  
23431 90681 49100 43273 00000

**10541/8113/6791 kHz, 27-10, 0700/0710/0720 UTC**

**11173/9246/7611 kHz, 27-10, 1200/1210/1220 UTC**

11166 70202 15378 26044 01839  
80952 19965 24842 08382 97273 99753 37649 56463 31648 10109  
25111 88523 47230 72156 94595 25063 39866 06797 33983 97355  
00268 14340 53580 75756 49331 19855 56646 41088 88795 95191  
93218 72519 34412 93587 76929 50397 23821 57823 69498 97447  
16333 87835 62582 06798 26779 78752 11684 30252 60638 65273  
01794 25257 42622 33329 49458 83997 55899 84972 70964 93061  
34157 67418 71323 97099 73677 02199 33737 64938 57627 75328  
14252 81561 09734 74471 71262 14416 19552 83991 84580 27468  
06493 73867 43726 41449 14812 43390 10162 63732 56748 05575  
83121 36278 45983 23243 23761 75079 88629 32697 17275 99550  
23923 15930 77706 75296 31809 07310 25114 18691 49610 45672  
89785 36720 64965 07763 23198 00510 77225 83962 20395 75981  
44492 82237 83486 60079 58490 71246 80938 95996 14460 98549  
82362 65845 68253 44849 73473 84207 97828 00205 80911 40996  
11325 73158 61615 67078 68906 68704 36436 21080 10563 96049  
72676 20833 07059 92095 45238 67872 76209 71571 31076 38452  
31676 39782 16637 39492 56476 28871 22977 52911 18378 43575  
78242 16769 69382 27375 92193 16673 96476 84999 12482 85862  
15838 44181 00000

11166 70202 34815 26045 02079  
85429 81506 12317 64519 71377 35411 31866 58378 51224 37295  
04057 80736 07829 33367 94472 07241 33083 26320 07781 92158  
27979 44427 76908 33013 19567 95089 74586 47048 37004 13811  
01941 32935 13865 44511 33825 16183 08911 12131 25573 01665  
62507 73451 10873 81722 30869 57080 45437 73268 65327 28534  
76159 82329 28802 41354 40450 19469 66670 60198 25435 14531  
74217 66836 41703 04131 27856 85002 91296 90341 72299 85024

34618 94006 80888 54180 85962 51124 31239 43712 92341 25728  
63418 28442 75296 37714 12823 39917 40394 29047 34952 59033  
84076 16781 64267 79063 52569 06332 74314 75037 32522 63448  
31308 40407 78081 68303 58358 76929 04069 00160 52531 48719  
99966 26032 21926 36384 44387 91796 34962 52213 24725 39177  
99059 02326 91660 97046 10902 06730 03227 20483 45465 13237  
38106 76017 76010 66156 82855 96514 42218 15712 22748 54108  
08647 79119 90907 24656 80728 89261 55442 42123 70450 91902  
49242 66350 28950 77366 72151 12640 88179 57634 20179 16591  
78843 24784 21463 32628 16796 51715 83644 89663 75082 21101  
82367 52315 83804 93494 45573 61140 25019 50539 13283 50303  
14833 74206 77556 66121 89895 48011 32321 34936 40473 91141  
87738 53726 57298 61424 28820 01920 84365 88085 22965 97835  
94878 20232 06111 48185 32532 45205 00000

**10541/8113/6791 kHz, 28-10, 0700/0710/0720 UTC**

11100 70202 64825 28051 00049 00000 00000 00000 00000

**10541/8113/6791 kHz, 31-10, 0700/0710/0720 UTC**

**11173/9246/7611 kHz, 31-10, 1200/1210/1220 UTC**

11166 70202 46851 28046 02139  
69164 26153 25684 08403 32993 64260 53918 52428 39178 84370  
94815 30806 61357 50930 26923 92887 04374 53561 00388 74530  
48169 70269 71709 65642 54271 43631 03449 02438 95817 74656  
52305 01586 97048 64025 94009 78443 93220 55364 58480 16555  
46849 60259 73658 80607 81256 69712 41484 90038 17330 81684  
94429 95465 24443 99465 06040 25142 21475 80514 53917 93617  
88865 40483 58583 89793 77642 42101 46651 86562 26358 23613  
11761 39211 21874 46453 71702 64786 64931 66845 45165 19606  
26446 61015 96559 17095 05457 58707 22334 53150 24679 64684  
77242 31204 24590 72912 63985 04186 41987 03092 34668 75569  
83954 14260 77515 26682 33185 75117 87272 62479 45573 95784  
42739 92952 26045 50672 39870 92384 93540 47150 53879 03611  
71097 19713 28781 79490 61962 54303 17815 78782 97686 72522  
23187 58586 69125 30368 08565 30569 76279 11230 82759 73136  
57934 17797 78040 16757 87013 92585 71518 44614 42590 21767  
23029 75777 94506 01983 27955 23085 61517 74831 08438 42917  
28911 58730 91394 19050 36543 32814 46792 47783 73214 52581  
84616 16523 38332 01962 33969 93008 56800 11501 52722 67373  
58061 97339 41194 14219 55247 00691 58249 66907 85351 32481  
63285 21236 96387 52866 32540 10706 92446 40287 23141 20548  
72610 29774 83359 32713 24644 25171 32483 19010 59416 14973  
58762 46211 00000

**F06a – FSK 200/1000**

14621/11057/9369 kHz, 01-10/02-10, 1500/1515/1530 UTC	File 04440
14621/11057/9369 kHz, 08-10/09-10, 1500/1515/1530 UTC	File 04441
14621/11057/9369 kHz, 15-10/16-10, 1500/1515/1530 UTC	File 04442
14621/11057/9369 kHz, 22-10/23-10, 1500/1515/1530 UTC	File 04443
14621/11057/9369 kHz, 29-10/30-10, 1500/1515/1530 UTC	File 44444

5845/5249/4525 kHz, 06-10/07-10, 0400/0415/0430 UTC	File 04448
5845/5249/4525 kHz, 13-10/07-10, 0400/0415/0430 UTC	File 44449
5845/5249/4525 kHz, 20-10/21-10, 0400/0415/0430 UTC	File 44450
5845/5249/4525 kHz, 27-10/28-10, 0400/0415/0430 UTC	File 44451

9159 kHz, 11-10, 1533 UTC. i.p.  
7569 kHz, 11-10, 1540 UTC  
Sent from transmitter site Chita

File named 80159~1.TXT (2150 bytes). Incomplete decode:

```
11100 80159 23069 09134 03489
EMFUX XVRUW KHORA HTMM EOMS UGXB KCDCX _____
_____ YYLMV UPGYD EEOYY BQRMP NLJDM YD_____
_____ YOFOD YTICP
BYULH IJIPQ XVHJQ _____
_____ TJ HMXMT QPQFC URRYX WBDHW UEJNF _____
_____ GEXDH NGXAH HXTJ _____ TBD
BSGSD SAFSE VIATB INXED CRMFK LWLBN UXATF W_____
TVBJS NYUIW JSYJQ NOEPD DCDTK MLHVX ESYTQ NHED_____
_TOLO JBVCH NBIWM MGJUK RVHSG PRV_____ _XYWY MSTCF
KLET_____ P ETKEC
TCQYW BFMFP AHSTY SSBQM _____ IW AHKIK ESBBF NCFSQ
YUAUA JOCQN JANES IGWUG SGKPR OHMKX LAFJQ MYAKA VLJGV SKDBJ
HLIFF TOQHH A_____ TDIAM VTALV WHHXG QVHEB OFCIQ
SDAAS PLFQO FCFFU IYLLK NPSYB NYOTY NTHGB ERTVE GEOLA MBRFL
WTACY PMWPY ULIWI YNJFF ILAQJ UDCPU YVAIK KUWGB JSNQN ILISA
NXDWM NQJPG VLPDL JPGRW FSLRJ JOWER GTLDL KOJGB RVRXH FGMXS
BUURT MVDIY WAVQN CNYQO T_____ PBMOD GOXOS BVM_____
_____ K FEPGA VNUNP ARUKA FFWLA ABEVR
_____ WM AYMAH WFCRS PEEKH KYLFJ EVWCD QPORA BHDFI
CGEUK JNUHB TNHJD LSHWW BHRCF KVJLC SNXVG QSVWQ PWULF JVRVG
XAEKG _____ _LMRB BNVGN RJXGE TVYKD
DYWGD MARWO LPMBO XFFYE GSOF SUTG BKTEW UDSJQ CKFQL WTKBS
YOREV MWEWG _____ DV IAMCF YYALN IAAPY XBLWP QJCXV
QITHL WTLHC EECWU JFSJO MVTFW GGRHA YCUJD DJUBM LQBQN SLIBG
JDOTG LKUCY AWUGA TKOFC QXWUJ MGIEP TWKRF NWHEH FXGXD MQIIW
VREXC WGHDX OVVUY IFXAD MEGRN WUJTE _____ M MLESQ
PEUOK TIWCR CMYVU ARSKV _____ NS KIKYO KSVUD KSOD
GWERV RAHU_____ _MXC UUVRH FGGIU QYOSB XCLYY SVIND
OCTQJ FJIUU M_____ XDJPA HIVJA OHQWL VBIIIR DNNCT
_____ S TLESU PMTLR FBBRC RLHGA RHTYC REUSH QJKVI
ONAXX WQFHE QSJUT MDDEH GPNEI YHFOV XJTXH LMKLA AEDDY PIFUU
NERMH UNAYW PMGDS NFX Y_____ _DRX NTHIL DDHAG TYCFM
PWEGT PKHKE TPUWP HMSYY LUPDW VJBKV KKIGS SUNMY JFVFJ DAOCB
IBJLJ TFAUC DEMA LLCFI NDLGL BVEEL JPURI MPQQA SNMWW NNVSR
ITBYX XYSOH OXXOO BKXOC AAEJF EOKVW FXIOP
```

CRLF text file encoding, empty line before 5-group header, no final CRLF on last line. Also note that the header indicates telegram #134 dated from the 9th, two days before this transmission.

#### X06 tests

14250 kHz, 28-10, 1053 UTC, X06c, MFSK-6	123456
16340 kHz, 11-10, 1215 UTC, X06d, CW	111111
16340 kHz, 11-10, 1235 UTC, X06d, CW	111111

The X06 logs database has been updated. You can download it here



## F02

13387 kHz, 10-10, 0820 UTC, MFSK-2/150Bd/4000Hz  
13387 kHz, 10-10, 0835 UTC, MFSK-4/150Bd/4000Hz  
12155 kHz, 10-10, 0840 UTC, MFSK-4/150Bd/4000Hz  
16230 kHz, 11-10, 0830 UTC, MFSK-4/150Bd/4000Hz QSX 17467 kHz  
17467 kHz, 11-10, 0835 UTC, MFSK-4/150Bd/4000Hz QSX 16230 kHz  
13392 kHz, 17-10, 0830 UTC, MFSK-4/150Bd/4000Hz  
12155 kHz, 17-10, 0830 UTC, MFSK-4/150Bd/4000Hz  
16230 kHz, 18-10, 0830 UTC, MFSK-4/150Bd/4000Hz QSX 17467 kHz  
17467 kHz, 18-10, 0835 UTC, MFSK-4/150Bd/4000Hz QSX 16230 kHz  
16230 kHz, 21-10, 0830 UTC, MFSK-4/150Bd/4000Hz QSX 17467 kHz  
17467 kHz, 21-10, 0830 UTC, MFSK-4/150Bd/4000Hz QSX 16230 kHz



13392 kHz, 24-10, 0830 UTC, MFSK-4/150Bd/4000Hz QSX 12155 kHz  
12155 kHz, 24-10, 0830 UTC, MFSK-4/150Bd/4000Hz QSX 13992 kHz  
16230 kHz, 25-10, 0830 UTC, MFSK-4/150Bd/4000Hz  
16230 kHz, 28-10, 0830 UTC, MFSK-4/150Bd/4000Hz QSX 17467 kHz  
17467 kHz, 28-10, 0830 UTC, MFSK-4/150Bd/4000Hz QSX 16230 kHz  
13392 kHz, 31-10, 0830 UTC, MFSK-4/150Bd/4000Hz QSX 12155 kHz  
12155 kHz, 31-10, 0830 UTC, MFSK-4/150Bd/4000Hz QSX 13992 kHz

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

No transmissions on 1, 2, 3 and 4 October, probably due to hurricane damage.

**11530 kHz, 04-10, 1700 UTC.** Carrier. Off after a couple of minutes

**11435 kHz, 05-10, 1600 UTC.** HM01 is back. They have been off the air since the hurricane hit Cuba.

Groups: 21351 63642 70712 36055 42289 85331

Files: 82522135.TXT 24626364.TXT 50547071.F1C 27423605.TXT 67464228.TXT 36768533.F1G

Callsign: QWERTY01

**11435 kHz, 07-10, 1600 UTC.** Radio Habana Cuba. At 1604z HM01 already in progress. Repeat of 5 Oct.

**11435 kHz, 11-10, 1617 UTC, i.p.**

Groups: 33852 73622 11271 50084 03638 14241

Files: 84763385.TXT 72847362.TXT 24351127.TXT 50475008.F1C 61410363.TXT 46331424.TXT

Callsign: QWERTY01

**The messages from October 11<sup>th</sup> were repeated for the rest of the month**

**11435 kHz, 20-10, 1552 UTC.** Radio Habana Cuba. Off at 1554z. 1559z: 33852 73622 11271 50084 03638 14241 (repeat of 11 Oct)

**11435 kHz, 28-10, 1600 and 1630 UTC.** No transmission. Transmissions resumed at 1700z.

**11435 kHz, 29-10, 1557 UTC.** Radio Habana Cuba for 1 minute. At 1559z: 33852 73622 11271 50084 03638 14241 (repeat of 11 Oct)

## **XPA1**

14564/13564/11464 kHz, 1210/1230/1250 UTC

**14564/13564/11464 kHz, 05-10/07-10, 1210/1230/1250 UTC**

554 554 554 1 554 554 554 1 554 554 554 1

04962 00088 52679 61822 12903 76679 70920 75638 45842 67061

18874 53801 94988 85834 85561 82238 57238 04859 21774 57128

11529 02198 18233 31799 73344 58671 73602 08335 83722 60632

26583 77794 27893 12589 25090 88374 95621 10355 36593 94202

78320 76370 68161 10643 20600 46025 75901 70448 70161 59715

38407 40609 35287 21323 12384 48671 57742 25487 51194 62351

70260 33710 04740 48552 68977 07476 36941 89248 44746 59455

47930 05174 26706 46140 26265 67367 48992 65270 64273 36498

48641 24497 11195 50867 93453 41643 68901 28766 73557 20237

41525

**14564/13564/11464 kHz, 12-10/14-10/19-10/21-10, 1210/1230/1250 UTC**

554 554 554 1 554 554 554 1 554 554 554 1

05166 00102 09504 34248 36556 64685 85053 15426 37840 15070

62940 82616 90798 93396 04287 40182 50775 55508 58840 62393

70578 18404 17353 24177 30639 46661 88374 80696 65256 97407

27786 31292 18123 95869 34703 78382 15169 71066 60793 32314

64644 17094 28290 94736 45634 36971 85361 87521 81513 84529

65758 13017 56034 61253 42811 96176 53598 80403 05576 23171

72855 21541 80403 16184 66208 14073 07801 73866 83603 26019

91061 42265 67636 44696 78595 69402 83810 14751 64619 18159

25721 46452 67343 28297 85800 41588 66290 19183 94085 61377  
72079 30288 57878 59721 60840 75917 17885 83469 86758 19545  
53641 43210 31675 89874 35543

#### **14564/13564/11464 kHz, 26-10/28-10, 1210/1230/1250 UTC**

554 554 554 1 554 554 554 1 554 554 554 1  
00951 00128 54639 88954 45531 18268 40592 26989 35100 82188  
54459 17775 38044 38312 98159 75953 41898 57117 30522 96783  
01904 78386 05263 21817 16467 37173 24441 94514 25670 86156  
97880 59275 60606 11054 86599 20108 34229 81691 64185 70829  
65544 59193 50305 80343 79701 83285 95488 22570 02298 11950  
99091 67904 68912 19051 46770 70436 07327 66025 22543 74479  
13396 64562 42373 56214 24188 97032 76756 52513 30347 83863  
73789 13907 22383 04438 02587 17653 60312 12643 04309 87107  
05927 38327 79087 09852 09991 90136 27512 31641 55171 54312  
22060 22455 37834 64392 72044 06140 51882 31210 06520 39359  
41459 07245 07754 78640 40511 15793 05610 73032 02686 22631  
68826 21807 52315 27290 55943 36521 24917 85717 97086 66108  
52747 35328 87122 63710 82565 51883 94280 28901 67558 74325  
25271

#### **Training messages**

Similarly to the strange E07 transmission on October 13th, whose ID in the callup was left blank resulting in a slowly repeating "1", there was no ID either in the header of these XPA transmissions, with just a repeating "1" - indicating 1 message. The first XPA test cycle did contain a message, but the second cycle's payload was what corresponds to a null transmission, which would normally be indicated by "000" in the header instead of "1".

#### **9142/10256/11431 kHz, 28-10, 0800/0805/0810 UTC**

Note: Messages were sent at 0800 and 0810 but we are not 100% sure if it was the same one as the 0805z transmission.

1 1 1 1 1 1 1 1  
02471 00046 92117 08157 48097 27566 23799 33829 15820 83600  
97148 39020 84162 96053 44211 75700 77959 35131 51816 89728  
55939 74589 06827 10844 17095 11172 41274 46088 43278 80496  
67282 45692 00894 53625 33494 53392 07732 01297 41906 22036  
29386 44133 21321 12102 47232 53282 67966 76050 24611

#### **9142/10256/11431 kHz, 28-10, 0820/0825/0830 UTC**

Note: Messages were sent at 0820 and 0830 but we are not 100% sure if it was the same one as the 0825z transmission.

1 1 1 1 1 1 1  
02630 00001 00000 10140

## **XPA2**

#### **17438/16338/15938 kHz, 0910/0930/0950 UTC**

##### **17438/16338/15938 kHz, 01-10, 0910/0930/0950 UTC**

02335 00068 26361 48517 85205 77441 27352 49572 36893 99289  
04133 47591 00300 99499 21083 93160 97547 62806 16359 91383  
03525 56297 72568 26360 03633 68066 38806 37335 33706 06363  
08639 33117 53880 50303 48830 26230 36663 84013 63318 00052  
07483 06464 31046 74401 26192 83567 80705 55077 16320 35077  
24292 02898 50480 52211 86081 88208 83751 79138 00090 08885  
06998 26385 84603 68868 95686 02005 86328 49683 62830 88680  
00357

##### **17438/16338/15938 kHz, 06-10, 0910/0930/0950 UTC**

07383 00001 00000 34267

##### **17438/16338/15938 kHz, 08-10, 0910/0930/0950 UTC**

08012 0001 00000 32261

**17438/16338/15938 kHz, 13-10/17-10/20-10/22-10, 0910/0930/0950 UTC**

00870 00188 48342 23863 41187 11188 13644 01565 28615 16109  
28629 57524 71484 27711 11915 79720 07722 90787 45118 59377  
88063 92440 08649 73289 40295 52403 30798 25495 44336 73497  
34300 62050 41746 88012 82328 55902 62016 82904 61400 48770  
08502 53070 55059 64436 74633 56730 20235 48790 59613 26659  
87911 28784 41534 26731 69776 74403 28240 73826 16100 43025  
16104 81627 02058 28320 00013 44364 26524 08521 48774 15121  
21794 18748 87229 96552 70981 19022 45831 98109 15911 97135  
34083 32917 30010 60414 04772 19783 89370 11762 41898 18908  
59535 88413 25759 34642 38036 96707 84215 73384 72846 73085  
95086 46778 09841 83669 13475 16517 21227 23648 59004 67274  
84345 52338 27888 84320 51400 31389 75333 48005 84038 97403  
03077 06926 07789 40766 83258 66532 85691 84714 92783 58943  
40471 41882 27608 60458 62321 37125 31160 06159 14733 20466  
40300 38170 12567 98714 77258 69112 94415 03659 02639 93464  
71054 34664 72477 40793 25921 65057 30274 85070 68281 75594  
91852 14265 66346 38648 84838 83278 38255 33982 68854 01058  
98243 41730 27711 46152 07948 67887 92150 21888 67143 55072  
92588 19303 22590 48212 39313 94457 77725 73012 96289 15072  
06600

**17438/16338/15938 kHz, 27-10, 0910/0930/0950 UTC**

05399 00001 00000 36166

**17438/16338/15938 kHz, 29-10, 0910/0930/0950 UTC**

07363 00001 00000 34265

<b>13906/12106/10906 kHz, 1500/1520/1540 UTC</b>
--

**13906/12106/10906 kHz, 01-10, 1500/1520/1540 UTC**

03477 00257 00588 40134 81700 26118 14028 07847 09018 24944  
36780 16960 35965 76103 80105 08826 74911 67282 30784 25152  
77077 04227 33886 00702 20101 14431 53392 52291 05472 80328  
72021 98077 57422 20203 19483 88377 09310 61799 44597 73795  
50087 42309 53687 19426 72715 13946 91550 94986 50684 65380  
83554 57559 42712 88810 20456 94783 24818 53469 74603 11418  
72203 27279 62130 02723 17544 19075 16282 74836 22709 57382  
19691 27112 42430 25805 14821 24409 34783 62930 32709 29640  
33580 52662 54606 40658 03730 94147 28834 76167 24723 00413  
54929 20722 74919 76866 80846 98042 15127 15133 95994 72077  
02941 68314 89220 36288 45163 98079 29309 28495 70891 15817  
35312 91155 98574 31791 12830 08015 48162 86725 23009 22921  
45270 62473 86871 51437 85575 76438 28999 83024 64997 34510  
84668 15997 85603 95068 31681 09378 05666 69051 40690 14740  
75722 82335 39711 53101 88406 35845 31179 56792 75197 79833  
96422 50638 69213 07402 49475 50192 73734 63306 25680 90943  
05825 35893 72370 09830 46108 95329 83001 49504 72202 34447  
22335 25609 86027 30236 50362 31362 53160 25549 27584 63038  
32608 16704 16516 65240 81700 97491 39148 46736 19742 86925  
78335 17383 08563 86719 72179 45644 66223 43289 70788 16911  
37895 56034 06677 79389 57147 94820 77887 00209 49572 69496  
99512 16461 57996 61481 96743 29889 38928 39824 02931 52607  
15609 75447 90345 21704 82346 52763 41409 04361 74340 47330  
46491 63330 99951 70726 71267 39083 38785 07893 85312 86542  
21266 94896 62165 84871 28364 99277 62137 66919 78852 60871  
06147 82947 19344 65150 48826 58797 14878 10561 67167 41444

**13906/12106/10906 kHz, 03-10, 1500/1520/1540 UTC**

04700 00001 00000 34654

**13906/12106/10906 kHz, 08-10, 1500/1520/1540 UTC**

02429 00001 00000 37654

**13906/12106/10906 kHz, 10-10/15-10, 1500/1520/1540 UTC**

04479 00212 39448 52418 06531 23882 09638 91993 38612 44106  
57718 02268 54946 84725 55229 04873 94359 62767 73112 37850  
59130 40526 27427 73952 10425 97063 50461 23476 14761 24539  
07629 03584 99854 94796 56458 96959 55219 69278 65625 12057  
11792 43070 83190 19398 72247 82061 50414 57340 55789 25219  
44785 59715 81332 91231 95560 29376 26022 44843 28729 93254  
39899 93222 27424 96456 43722 67412 04845 59364 63547 39956  
31058 13071 40909 37910 59104 34972 51084 56271 44292 84673  
87849 09485 95769 50880 59048 96398 55398 67011 44919 28239  
55571 01809 54545 19890 39455 63838 97837 52149 73781 25110  
62173 56269 72946 55376 73564 40121 44235 27854 88835 34236  
73266 60886 86897 98255 01135 77874 13322 14182 44775 20075  
95999 59738 30644 23373 06583 83857 35040 52548 08752 03476  
48031 81598 09917 62093 88030 47169 18510 71225 46705 58730  
46075 56839 30992 61508 62968 83649 88374 95548 56320 31445  
86296 02723 75648 13863 45074 89933 36788 20094 55544 24296  
59134 94240 29772 26824 67930 09561 01571 74026 27468 50954  
95316 29849 66956 80859 13393 34258 62516 07657 28243 88813  
19311 60471 70467 59815 00084 12035 81244 76703 50294 89567  
19467 57152 95625 74667 18643 01971 83190 54485 49923 97801  
99951 42883 54565 22041 13205 78624 33672 17156 62744 07901  
64708 15788 39720 70299 61564

**13906/12106/10906 kHz, 17-10, 1500/1520/1540 UTC**

04794 00001 00000 36665

**13906/12106/10906 kHz, 22-10, 1500/1520/1540 UTC**

09477 00001 00000 36670

**13906/12106/10906 kHz, 24-10/29-10, 1500/1520/1540 UTC**

00926 00248 10384 56314 74601 46982 39626 93947 54441 44244  
38587 63290 95194 72270 59868 35981 49809 68885 83786 59528  
60405 24541 53498 04042 82714 29136 79270 56534 25436 55584  
84432 22339 82569 74982 29381 63222 10080 46248 23745 03282  
26884 28891 57053 12141 46679 38950 44350 08312 62152 24566  
09553 17129 97231 05435 48037 13439 01830 29105 28981 85036  
47264 36450 15769 77396 33137 32160 06823 83653 17913 01474  
80272 16609 67535 16353 87208 10855 37813 39465 15183 43418  
38615 91872 61004 74293 85968 01307 71426 87133 97624 90638  
04118 95157 85479 60255 69294 01397 29158 69989 77722 54297  
09380 01496 58956 83446 50235 49981 96973 07058 37795 97574  
15526 05389 66756 10014 85950 98678 92277 88931 05538 07347  
12382 99245 64673 02473 31788 73176 10003 84860 54599 64048  
52056 31455 45741 76149 82890 74518 05481 77084 65944 17596  
17760 27195 41040 37554 62143 53089 85173 60206 14330 22650  
11528 34719 82092 36785 89449 40077 99972 78519 39083 38004  
41913 12737 46848 89914 99316 89773 07375 87298 17820 84936  
49242 90809 68492 76021 63589 18632 49151 95628 88818 00992  
37458 63760 47109 77205 42486 21974 50818 29351 86104 49911  
53047 11636 66655 28171 74358 08090 13594 01212 66377 81791  
89595 17952 18912 18937 88339 91400 28515 97699 28810 13273  
89377 72823 84349 87018 75561 99888 50076 37640 38149 58485  
53227 79846 24034 42525 70628 63806 69797 12713 20288 69219  
36170 54979 30990 57189 58102 09515 03586 40340 58117 17777  
99180 30676 50750 39701 87387 21388 83665 90240 04101 76319  
56000

**13906/12106/10906 kHz, 31-10, 1500/1520/1540 UTC**

02012 00001 00000 32253

15958/17458/18758 kHz, 0800/0820/0840 UTC

**15958/17458/18758 kHz, 02-10, 0800/0820/0840 UTC**

07895 00001 00000 37670

**15958/17458/18758 kHz, 07-10/09-10, 0800/0820/0840 UTC**

00940 00142 18773 66003 62475 99560 91523 75843 46808 75103  
37134 28934 32862 25143 27837 31338 35741 05322 77130 58178  
04091 91857 44027 98826 57478 75242 34294 01145 43820 35781  
91186 12732 01284 17888 17228 58606 37206 01458 35717 20971  
84205 37171 30568 01116 75908 81575 11138 61032 86688 63339  
76818 45661 09787 51923 36418 58182 30135 06716 70155 93343  
97219 43564 93019 13832 42703 29114 64446 03581 94281 06301  
53920 05652 83479 08907 63273 89623 86528 79219 78379 10380  
27968 52062 19222 87344 21567 35954 92124 89588 63354 04913  
55845 12454 25064 97985 99152 84227 64686 31315 26980 82088  
11371 20177 34648 67501 17074 78883 87059 45743 23877 23693  
60618 96585 60946 62951 16511 46661 97899 02117 68576 83884  
51011 88448 01002 71675 15448 13174 22227 68215 49667 38909  
20662 33223 84776 41707 75045 51318 98005 81424 49429 38253  
70970 90789 55360 48032 13350

**15958/17458/18758 kHz, 14-10, 0800/0820/0840 UTC**

09719 00001 00000 41262

**15958/17458/18758 kHz, 16-10, 0800/0820/0840 UTC**

08788 00001 00000 40670

**15958/17458/18758 kHz, 21-10/23-10, 0800/0820/0840 UTC**

00713 00094 42747 79959 71656 80660 93008 99789 29079 45442  
16961 74606 73616 37795 19437 45107 67037 47157 05840 05944  
54222 74664 40406 52802 55385 24998 68529 24602 58855 51690  
91956 14864 20822 53611 31191 60495 81391 78441 94742 74448  
12711 79902 63703 47358 80604 79706 02108 16217 86933 12123  
76335 78957 33451 29384 40987 06827 63736 57283 24203 05011  
10513 83468 60055 82442 74544 43910 60572 26236 09967 02677  
71617 88284 79443 94184 14735 46611 10802 51320 31460 86519  
67396 85350 21565 52886 32473 22618 90617 86732 68760 42010  
53657 01807 72230 81028 65861 95096 65462

**15958/17458/18758 kHz, 28-10/30-10, 0800/0820/0840 UTC**

00931 00116 40612 51982 18218 94597 53680 43966 12648 42069  
65765 70205 95849 72625 92552 66277 50315 07790 77062 67977  
77086 02336 77086 64413 51432 52152 12188 77743 40123 76052  
13614 50277 13449 27799 39652 91371 09387 86734 52036 98126  
80044 92630 85561 67999 41018 72483 95989 08331 00085 90986  
12917 20139 42991 53883 16386 44312 59625 41234 99253 44358  
52980 70954 28365 48530 05756 52796 14078 04568 35096 77134  
67352 38458 78821 96249 98880 26210 62205 18227 89895 40336  
66794 86996 95965 05066 89354 04623 76357 06885 80356 86088  
79678 87077 38215 05614 16626 48244 27247 17958 10106 58388  
42585 12740 99975 65307 93380 76086 84820 51267 36823 43411  
02445 86676 06167 35324 18733 22985 29728 53123 51370

14469/16169/17469 kHz, 1200/1220/1240 UTC

**14469/16169/17469 kHz, 02-10, 1200/1220/1240 UTC**

05195 00214 24315 69860 97823 27451 17911 47094 02484 84493  
16017 56730 81730 57192 15694 24622 33416 22418 57741 28649  
25541 05402 17109 26033 71303 28843 11148 05031 47382 86032  
65421 02479 72180 01307 32708 46693 62508 46209 71122 96562  
99211 16477 58201 15918 93976 81767 02865 65680 28711 78492  
11227 75762 04776 93436 28359 98862 95420 30346 33401 76555

51178 67264 31542 76813 20596 12413 14881 47437 56598 36319  
68622 03981 27453 43492 65053 93069 72632 09561 56276 29760  
83338 53120 17096 28598 33365 81256 51656 05245 28064 14215  
22700 10053 30838 68932 80515 92205 59311 94207 02463 49154  
84489 42294 44240 50423 49850 98772 99844 67694 78521 79207  
25214 30163 79162 42224 66212 00660 32668 95428 38951 50496  
24777 61944 13174 63299 18924 10691 61870 24699 49330 21799  
66052 57499 51125 03599 13157 57024 51876 91902 65542 16513  
38794 73380 33209 49253 55679 51587 44098 14486 47505 40151  
02177 83329 98495 75701 50200 20276 43102 15335 16398 61845  
84316 81944 74215 00341 87152 55973 56394 47027 97522 12440  
78006 38076 12075 20072 48974 30300 52787 74848 34848 77441  
30578 44991 78028 88433 89283 07583 15949 98734 88303 34340  
68780 27794 26057 33888 19378 35504 57992 18909 76925 62220  
30665 61540 21672 66051 08014 32943 15801 82978 84511 50297  
47307 70750 51304 77045 29058 68358 53716

13372/14672/15872 kHz, 0700/0720/0740 UTC

**13372/14672/15872 kHz, 03-10/05-10, 0700/0720/0740 UTC**

09327 00140 97908 19919 06296 48949 00607 31855 11600 14640  
87955 17539 58800 44063 47624 72437 43186 87135 50942 13465  
02643 56365 32712 83561 96699 96345 94537 94862 63581 95143  
36091 65002 12265 23193 19811 24991 70401 80417 38512 76746  
47111 05400 41414 32160 03019 68188 24278 72464 11766 58253  
36136 86069 74734 36658 33755 67657 36438 26598 28924 69547  
38362 89756 34137 46768 44117 33161 35236 78348 07684 69414  
71459 21523 72531 04377 17461 82307 63485 87267 51686 44591  
65715 18586 42313 93694 44498 51650 30627 14426 55310 96671  
84443 06536 38240 98933 64452 48798 64044 18564 07419 95622  
93189 11127 55977 38655 96579 20916 97723 64469 54975 06808  
11763 75242 82994 80836 87238 02419 08652 67825 62892 48355  
70912 93282 22274 97653 10692 99008 04776 28194 95418 02525  
62227 51722 93943 62301 09862 49176 37644 03454 90480 30138  
50481 56143 30404

**13372/14672/15872 kHz, 10-10/12-10/17-10/19-10, 0700/0720/0740 UTC**

04266 00188 33780 68078 45836 08181 85018 11111 88343 81324  
68010 60130 86302 38608 24038 86006 86336 66315 67779 82628  
65830 38086 08080 32785 63838 08866 87081 81055 83368 80388  
78654 55262 85600 10263 83858 88638 38061 00338 10006 70506  
65010 85838 03288 37880 30856 62633 62680 65070 08468 18589  
00450 80836 46080 11625 66360 10633 60106 85628 84301 36830  
78584 00000 01611 66338 78886 30343 05080 10370 67543 66402  
40104 38588 64488 84221 70304 02203 77644 11704 77673 37680  
88886 60610 18876 00038 03820 10886 60664 88836 32020 33660  
16666 68888 70006 66031 03286 17882 87588 06366 03232 60230  
25830 51847 32614 41806 33700 30088 38882 86060 68635 30863  
80588 35881 60423 83300 33815 20000 00636 06035 88086 68530  
82336 05366 34609 36000 85258 24830 88783 08618 68782 50830  
36686 33870 86051 90130 15656 17803 93438 05519 81405 77830  
88313 03810 38888 03232 68603 02863 36100 23866 47886 33538  
63648 78332 30053 66308 81806 00660 50663 23687 06956 76669  
34963 56814 56135 65738 87605 89763 53583 78795 33588 57626  
81135 53303 28700 16337 46307 57713 73160 02496 41034 70074  
64171 79246 56605 26137 98331 42497 91249 00479 99721 03430  
53723

**13372/14672/15872 kHz, 24-10/26-10/31-10, 0700/0720/0740 UTC**

00965 00212 90163 36160 55709 41067 02587 54951 01878 83182  
48105 24918 91836 75267 26973 10112 40413 09400 22487 92910  
92749 92640 97677 63384 79982 97308 80301 44262 17988 02911  
11168 50186 68361 42573 84942 40671 46355 00482 60889 84541

80682 69676 29920 31290 47002 49266 10452 91651 19925 10697  
40951 90869 14061 48050 56757 30346 62022 55422 91979 11256  
83240 08518 50665 66500 94143 90249 74133 93180 19794 59435  
73842 22333 21965 69689 04533 38896 14075 71809 04471 19914  
44215 38060 28410 44915 80424 33950 43837 36977 11459 31361  
61174 28804 90526 23432 66939 73760 90738 86739 83261 84980  
14434 72578 19784 41378 76255 78213 39039 12787 32795 59527  
85247 20713 50619 92937 22778 09378 14925 02570 13976 71096  
67860 46010 11159 94180 82140 73373 34864 21525 76860 59803  
32805 62261 84949 98551 28191 30671 45529 48705 58860 65891  
31829 42129 93205 14483 92299 41279 82229 31485 36162 85177  
10422 19112 14626 68774 16615 90741 54757 24535 08692 33697  
95859 02845 82761 27021 15196 29780 85788 19572 03532 46968  
72234 64567 90058 09784 68421 32641 81586 79182 86559 08153  
94702 04114 68442 60404 11151 50983 00350 10456 61301 86334  
53572 48473 26577 31449 15722 95476 79308 89807 98504 63116  
46813 71430 55182 63790 35728 39588 32061 80323 33966 99704  
55510 36825 76967 44494 60653

17471/16149/14406 kHz, 0910/0930/0950 UTC

**17471/16149/14406 kHz, 03-10/05-10, 0910/0930/0950 UTC**

00995 00076 81076 88239 70466 96434 46089 18379 13536 83552  
64324 52442 30652 72950 26876 72715 16440 00008 98944 31333  
34658 13724 76098 46690 18812 55099 73963 48852 47281 73094  
39354 39941 47110 34265 50347 36820 07254 33298 00873 07451  
80806 83725 20131 75228 16651 26378 16170 62861 70345 99202  
61339 63340 29613 65066 60588 36204 80163 94292 36168 05462  
94915 86715 59498 67346 18246 14736 94651 49006 63718 87912  
50207 82373 39907 53035 12515 09642 26711 41701 07360

**17471/16149/14406 kHz, 10-10, 0910/0930/0950 UTC**

06580 00001 00000 33666

**17471/16149/14406 kHz, 12-10, 0910/0930/0950 UTC**

08369 00001 00000 37266

**17471/16149/14406 kHz, 17-10/19-10/24-10/26-10, 0910/0930/0950 UTC**

05954 00188 24777 36383 24296 70974 27785 71710 58440 16370  
03716 18978 17056 60163 06476 37303 36841 02423 83018 43166  
38954 37115 98010 61152 62121 23061 78068 61013 36123 94922  
23322 45538 12470 37949 93646 36629 25048 17897 32516 36429  
31721 98332 93540 92391 71374 59783 53518 62181 37528 29196  
11509 33172 52466 19776 54804 09888 59377 88569 68339 12247  
78864 33891 99283 50884 70009 37218 92849 62736 05149 25841  
86303 28259 68173 47653 78514 39704 01100 89079 38689 46966  
23785 50828 76158 85648 04900 29381 29119 38487 31193 37940  
55284 19592 78324 55218 56466 49950 60985 15484 04281 86308  
35155 26092 39324 33835 67072 91958 17809 92259 34354 41380  
38896 00930 17505 76834 03920 41321 48306 79457 59464 61758  
07425 26280 59760 39398 07544 19542 57697 02211 29334 69560  
13747 46670 97897 04903 80511 24771 98313 23244 50959 79109  
36814 17466 87129 17832 23767 32058 41825 12843 43884 66191  
04882 72888 77484 97073 27781 66401 08532 61520 02720 56589  
70614 71610 54739 81229 78487 05447 01438 61399 58883 82675  
84722 64218 56561 11398 35777 57026 19780 47290 69119 84858  
05991 19270 49711 38436 80598 49195 76127 67675 26833 73308  
07322

**17471/16149/14406 kHz, 31-10, 0910/0930/0950 UTC**

01550 00001 00000 33656

10238/11138/12138 kHz, 0500/0520/0540 UTC

**10238/11138/12138 kHz, 04-10/06-10, 0500/0520/0540 UTC**

00943 00133 09907 44008 41610 52029 42395 00910 22928 99598  
40593 16372 02278 24746 68901 11336 69299 33454 78158 40074  
70389 50082 51828 84194 85422 10980 10342 46378 46661 53541  
66208 46312 71016 08045 01477 93392 33482 46477 01533 00453  
96981 53846 53421 07435 36906 00541 55433 58986 51317 47814  
58591 11739 65154 80990 43797 71292 13067 40820 54871 32348  
20280 88497 96068 41515 86130 42083 62995 36726 96784 31509  
71999 58687 19975 62642 80563 33995 61913 47174 96122 10809  
29445 61352 33959 60805 48716 06222 11682 89389 84356 53660  
14288 14240 61394 51337 00554 94293 73455 42742 30355 87712  
74484 02565 88670 29852 59333 75391 86356 49676 66616 08364  
15684 45523 82075 10318 52077 88808 41108 70971 42885 78986  
13536 05624 33008 33803 56838 77441 15881 75667 04186 33972  
47771 35535 51909 77126 02008 07464

**10238/11138/12138 kHz, 11-10, 0500/0520/0540 UTC**

09097 00001 00000 34672

**10238/11138/12138 kHz, 13-10, 0500/0520/0540 UTC**

05766 00001 00000 37663

**10238/11138/12138 kHz, 18-10/21-10, 0500/0520/0540 UTC**

07524 00171 83405 26415 98373 54576 21697 10226 13766 10808  
60072 25227 31900 30847 61797 66634 84131 83277 59304 75827  
11823 52669 19405 59908 68612 26574 15969 46119 02392 18353  
80060 96728 72741 49309 13440 20259 75269 41852 15343 51616  
38687 07347 19790 86012 32954 66212 24236 55085 99453 61720  
62607 34559 56789 50383 91137 01014 53319 58991 52135 32571  
50752 72097 67070 88951 34442 64477 07307 51707 35667 99086  
81068 18497 29743 75012 45470 77117 98945 34778 72916 21294  
64801 05460 92122 12919 26393 08424 88350 06903 48966 22402  
13019 43179 31832 79186 62153 02812 49151 18702 65654 07990  
66513 11156 18325 52583 27259 54898 63252 38039 29229 21763  
79979 36928 42466 17752 21300 85541 47729 46438 80191 31872  
94855 17441 81716 88317 74400 43031 56840 92635 96353 99196  
21965 05742 55441 60033 53268 81665 26771 57799 98264 18856  
08916 35897 06756 39328 38597 78507 78971 14606 12387 65879  
67341 52465 47752 65109 67289 66162 93783 01792 78462 43115  
50022 06304 73202 32519 48191 35082 17467 10274 95914 72488  
81325 43427 23739 77760

**10238/11138/12138 kHz, 25-10, 0500/0520/0540 UTC**

01299 00001 00000 36662

**10238/11138/12138 kHz, 27-10, 0500/0520/0540 UTC**

05327 00001 00000 36257

14537/13437/10737 kHz, 1100/1120/1140 UTC

**14537/13437/10737 kHz, 04-10/07-10, 1100/1120/1140 UTC**

05392 00077 28008 39849 91900 56556 70250 09202 60711 76717  
56072 06232 02334 08290 08831 65933 84120 82288 88120 40556  
08218 67013 42585 32682 02206 22287 68481 30598 08183 44139  
37847 31080 02884 77073 79357 30475 94290 13885 30007 57846  
22374 20605 65300 00738 63018 72483 18834 25300 88669 96845  
36701 59706 03341 84846 85927 32307 15084 06871 96318 90578  
76882 51388 42112 70112 82101 23550 00136 55323 13453 26006  
45719 85928 62177 46002 75006 04209 90258 75080 74658 03540



**14537/13437/10737 kHz, 11-10, 1100/1120/1140 UTC**

04920 00001 00000 35656

**14537/13437/10737 kHz, 14-10, 1100/1120/1140 UTC**

05665 00001 00000 36663

**14537/13437/10737 kHz, 18-10/21-10/25-10/28-10, 1100/1120/1140 UTC**

02287 00198 00896 31585 84471 45788 78326 20058 78524 86886  
12684 22308 58881 17233 92574 37271 90060 45788 94976 70881  
64083 29605 57473 51399 97156 62196 03983 44376 50511 75019  
86601 64216 54033 62577 91887 12778 33697 86150 09351 89062  
15326 54824 22006 38526 88518 42998 24944 42053 98201 70034  
72662 66963 40365 81494 98259 45586 96556 99365 52040 33589  
99607 84310 00633 22745 75793 51023 30522 16353 45988 50254  
41853 79013 80421 05099 58628 33186 54748 49677 88332 29075  
20257 49231 55006 89634 11445 89968 47333 63008 43728 84565  
92078 50369 66672 24210 74376 68029 57004 55442 54378 38079  
79406 67553 50454 23543 04689 89658 19187 40584 37319 62680  
36389 15728 15037 56450 22129 36717 78446 81314 52281 53643  
52624 97008 25908 04233 20007 36079 00520 64017 33324 11954  
70137 83430 36753 24717 64522 08737 73987 06684 97749 05626  
30667 69540 27535 68203 60017 68277 65747 44453 33979 73198  
14427 23552 02396 73637 18753 55716 39180 31357 29883 16882  
68163 52368 20689 77963 27986 97124 01438 56267 36105 85476  
20296 96402 80317 15048 43166 28559 95122 10222 41482 86924  
65857 82438 66656 48033 40431 56797 07388 58236 21073 14069  
70740 37612 92770 97009 79401 06787 40106 24266 59312 36061  
27714

**14469/16169/17469 kHz, 1200/1220/1240 UTC****14469/16169/17469 kHz, 04-10/09-10, 1200/1220/1240 UTC**

08272 00192 40669 76692 01595 59625 95420 16413 06028 69234  
29317 53636 46868 22305 30459 64454 16878 16115 25954 07927  
73188 88733 95256 02282 81993 33049 97498 82564 92853 00199  
61453 77882 05021 00064 59821 41681 35980 17618 23482 59155  
65550 18626 11241 52041 65998 80845 82428 16348 12308 31657  
59804 44491 47762 27344 40307 34657 80091 50181 64097 40251  
72750 25881 85231 66254 56406 55571 11636 68880 90264 98230  
55359 43198 10781 81624 06632 72134 59378 74521 96816 58367  
20433 23117 31487 34057 50104 50702 71766 70621 02182 08234  
33260 66996 80420 44251 40384 49749 97010 92161 43794 46478  
99781 97254 79357 26869 01029 29695 47814 60905 09158 65588  
83489 28069 79464 90520 33071 28863 63275 66241 58510 06702  
00918 02994 95863 56689 08545 37090 80272 53554 51577 64149  
15166 90083 13431 91877 23689 25851 13159 21931 77142 11725  
27202 97310 61828 20316 34241 87219 95907 37501 01388 43855  
13570 79575 10216 41421 55035 63061 39594 64195 21437 48624  
94461 79041 91654 52296 93212 61690 36351 74553 77370 19541  
61606 79453 73195 58925 96412 17721 94544 83815 51071 63200  
61470 63552 16496 77615 94415 01829 71740 11864 45079 17869  
89507 00668 41707 06175 42553

**14469/16169/17469 kHz, 11-10/16-10, 1200/1220/1240 UTC**

00904 00232 70219 50160 63185 96191 98842 47465 01115 16455  
42272 21515 58791 75836 82469 61665 56971 99034 76967 00184  
15207 61012 20077 97943 84605 26905 56745 05372 59019 32798  
33956 23721 52684 65274 29180 44033 54831 80627 31120 35445  
51361 04493 10220 19786 50959 51835 74431 67846 18295 27285  
60160 70931 30677 33728 58107 12824 53573 12172 34404 69742  
33090 41392 80909 78730 32728 40068 51342 71704 19961 90684  
02886 73130 81987 87323 76495 66847 63357 44868 62965 54756  
15863 82787 78947 19902 14430 56645 20199 27092 21612 43502

14613 94723 10571 10953 95380 97682 61637 57034 22828 15293  
65066 40044 98047 67032 95161 83436 68095 18802 11582 71454  
90619 96533 24864 49442 76663 05510 76285 92769 89955 96362  
08030 13501 96599 55812 13140 39452 69652 86718 08617 28867  
76706 07619 46202 71908 52562 79008 22501 31277 36876 15170  
15633 97799 41368 94834 98103 14775 42319 68767 27051 07215  
40658 42322 65788 22672 33953 14244 45189 60699 14425 12288  
74349 25117 70196 38071 38096 32954 94763 02735 83153 74456  
65639 72769 82906 26146 95124 15322 37702 03583 90768 83266  
34368 94205 85019 74596 35141 83159 58506 56335 43486 09582  
40346 29201 58942 23445 81242 85011 84756 05336 31288 66670  
08820 74798 94057 44427 86477 60222 86747 81988 92557 61625  
20789 52688 57291 61288 87205 64567 69640 90364 77348 37754  
48659 08714 82004 40874 52875 93381 41615 54146 52692 82529  
81067 66509 70386 77740 03530

**14469/16169/17469 kHz, 18-10/23-10, 1200/1220/1240 UTC**

00959 00218 29104 35494 89651 76710 93188 29929 61066 81932  
42286 30002 16643 09731 16568 76810 72784 58886 65186 34604  
11678 63368 12241 01400 50117 21641 13434 76354 86915 66938  
79185 74039 39395 68842 82351 44773 61461 82325 45630 39013  
10169 87645 49373 83522 30191 16790 66085 33664 80777 01997  
71097 59496 53891 43482 70284 21126 27751 12679 96340 25543  
37555 43661 30831 09876 85444 25567 76123 52684 60925 31563  
80557 90223 97287 71412 56919 58655 21727 77587 92795 33352  
39098 47716 93598 21561 85531 60434 75232 86516 62935 98895  
30582 49359 98817 07210 62590 07682 38161 27826 07241 12100  
88369 12636 08488 17801 09108 58185 89476 71598 59669 57953  
61393 38540 15430 18476 08754 86429 34711 82081 33602 79937  
16703 10374 72809 84861 39053 59393 02425 10216 73558 28915  
52760 22467 36909 22090 04723 72345 04030 25173 84336 89644  
04111 62619 16748 97167 95018 30036 41972 21265 22962 10282  
71287 85632 91892 04646 51801 87954 89199 72416 18549 53108  
92526 88973 24592 48939 70842 11543 90819 43615 76671 71825  
18071 40387 42330 06440 22808 53934 57956 47435 90061 59875  
91813 25517 70021 38928 50735 19083 25152 72661 96627 53284  
46053 64738 60085 15747 86816 59647 06306 55954 83419 75349  
35692 70069 10359 03201 41031 91600 18020 64783 44728 42084  
14635 92376 00578 97611 30914 28167 23944 42967 63339 34243  
30021

**14469/16169/17469 kHz, 25-10/30-10, 1200/1220/1240 UTC**

00933 00180 29353 33953 68323 75091 67825 75132 70413 44273  
81136 67729 29156 31028 05571 06393 90921 31404 17931 06404  
50956 02138 26352 10747 16955 46430 81769 24596 12799 78978  
18843 71593 62551 74964 10221 82532 40626 27854 39775 20725  
79347 17916 01125 10424 12542 48523 74805 56416 26394 70497  
46442 72093 98221 78276 56356 58652 45854 79433 72294 54353  
65787 01306 67662 88330 49779 89898 56838 78225 44754 10442  
63966 79399 46602 46957 83176 56412 12140 20601 39508 75245  
83328 03493 02112 19212 39858 16837 46325 02457 85251 23566  
88502 54135 73184 43543 44573 64406 37180 95245 86318 49595  
65159 06213 16135 96173 01180 01133 29580 06533 11997 60818  
36190 57500 11937 78668 67041 68869 70435 19535 04226 30167  
25954 31805 64201 57690 19965 97717 39015 32891 98435 73887  
87327 29822 55628 73268 26262 43373 71501 62512 02860 62707  
42380 64549 39778 70259 43488 24546 43830 90728 26095 00598  
02493 01586 96190 27871 22778 20322 95866 00208 49475 48738  
36435 77943 92688 87954 91840 28357 19092 30279 20197 67417  
75384 58298 92833 21082 54654 56373 50402 83134 02835 47311  
34383 43695 61311

13542/12142/11442 kHz, 1600/1620/1640 UTC

**13542/12142/11442 kHz, 04-10, 1600/1620/1640 UTC**

08743 00001 00000 36264

**13542/12142/11442 kHz, 06-10, 1600/1620/1640 UTC**

04207 00001 00000 35654

**13542/12142/11442 kHz, 11-10/13-10, 1600/1620/1640 UTC**

03947 00190 60225 40678 44417 12865 26165 50070 17275 44751  
21973 78834 64746 35535 05853 23280 23422 17533 27203 44533  
49459 87791 15407 86989 91123 44835 43312 84490 00201 97263  
28329 31700 87847 57471 70919 40067 79323 56493 28901 19556  
35306 15928 14164 37717 69604 09886 79573 88756 98990 93570  
48255 44030 90145 33930 08494 93584 03574 44948 46538 93800  
65314 77656 95064 29845 68802 94820 62838 06797 37390 39934  
24554 63241 83530 41137 88177 05173 73219 74883 76912 97578  
57272 50569 45273 11905 44712 04299 77390 41269 88357 13466  
27032 25707 73830 09749 54327 93686 06619 38075 05318 80850  
56441 95482 39051 28341 05026 64208 78828 09439 13724 93301  
90574 65046 63213 64817 45112 65146 19686 17329 99499 57194  
86707 97986 45590 41527 54734 19771 78430 27121 97667 73306  
06953 33010 88684 17790 06129 90322 31700 51629 77393 23874  
21578 66756 11640 35360 74766 45887 68388 84443 51723 76916  
69409 58617 46020 27906 78822 72208 44046 47176 17127 62140  
92975 16482 38322 29291 42597 59259 23012 74498 93453 59364  
66552 11520 01829 23260 03697 92238 72584 31390 46791 53888  
18641 47839 89192 32775 54408 54256 39586 87339 76416 04239  
82135 02610 54366

**13542/12142/11442 kHz, 18-10, 1600/1620/1640 UTC**

02765 00001 00000 37260

**13542/12142/11442 kHz, 20-10, 1600/1620/1640 UTC**

01437 00001 00000 36654

**13542/12142/11442 kHz, 25-10/27-10, 1600/1620/1640 UTC**

00876 00248 18615 46123 51672 39062 45641 73543 37601 83696  
45140 71537 31395 14831 42232 65555 09658 56711 42581 63219  
89768 35191 19409 83842 18429 73392 46782 22009 02756 96574  
69144 26684 65758 31621 60355 70785 80010 64101 17458 76592  
82684 16452 86819 09959 41322 53920 51969 31474 89303 92958  
11635 10695 54433 09508 96218 59211 95518 32080 83239 58799  
70784 69261 73770 13812 87069 25290 03586 99039 42855 77423  
76648 21405 47109 54651 19165 85972 88992 35312 71263 59024  
46224 37136 28339 26359 99120 76792 83054 13518 67315 79355  
06081 56906 75232 55495 62167 49130 02627 46125 36770 44230  
66952 61354 56141 92688 79843 39811 78914 43443 51196 42499  
01980 03777 23456 98465 83982 21083 09892 90844 91265 18781  
07696 34658 94904 07513 20593 10939 91439 14832 11799 54497  
28603 60206 43827 48185 30490 28365 02124 57403 28653 92442  
35677 06321 25149 80808 73036 83651 32654 96405 27656 75570  
18730 40325 46802 24777 75936 14791 62665 36602 52260 12350  
78478 28612 67099 99988 33517 36654 73771 44834 03737 82021  
88335 63657 95151 81177 17321 78840 07560 31629 20007 74411  
57148 03155 77091 98616 12954 00301 60953 23201 41119 99831  
71433 44655 12642 95875 43154 06373 44175 24453 17594 47790  
01874 01932 17410 49213 03297 25554 80872 77749 39339 36575  
11261 92843 20993 83759 55768 02777 11930 83476 28380 80354  
07228 87979 69751 15717 55455 66848 87934 91860 66265 02250  
32557 67547 09134 52265 71427 73340 59063 23021 20853 96656  
26630 15195 32625 42004 58504 84516 31212 98252 61653 97548  
70634

14672/13472/12172 kHz, 1100/1120/1140 UTC

**14672/13472/12172 kHz, 05-10/06-10, 1100/1120/1140 UTC**

01447 00095 97043 69133 55123 15133 83662 74335 95777 96897  
65870 58597 48194 51582 96729 69135 06067 96411 42115 22011  
77292 12881 85121 96250 58709 91682 54132 34829 70971 02541  
28771 60555 91348 40400 17650 46471 01692 90685 88871 48366  
50182 89984 21066 14747 20192 88740 22833 86111 55704 87979  
74884 68227 31952 19182 72656 92916 16345 89303 73158 88120  
06196 60839 99475 79081 45944 36353 48772 11845 43997 00576  
36914 84870 96210 83781 54280 32297 04600 57025 18540 17837  
26838 92765 43776 56209 70190 53869 82360 21001 49117 07640  
26418 81262 76811 22693 06143 67432 33080 61346

**14672/13472/12172 kHz, 12-10/13-10, 1100/1120/1140 UTC**

02408 00122 16206 57885 68310 53529 30103 44196 02431 48467  
43119 87968 63393 60735 91243 82855 86949 73836 06017 92982  
80690 88161 06846 04075 28250 29654 90982 34752 24172 71708  
60409 66540 71537 86554 46982 71771 64292 92083 74138 64935  
77008 29921 32337 36311 30773 11622 73735 64094 07449 03175  
77191 70348 49792 61879 11040 32990 07958 90375 52403 81704  
53211 84178 23381 55531 20437 78249 48717 37112 45082 73767  
76068 15403 72347 18763 23032 34492 45461 44733 22425 29365  
99966 88282 08750 12386 55385 13625 64750 47101 83978 90862  
86842 80999 48067 47419 83828 36079 18830 37004 29687 03079  
80722 06680 18993 49441 55297 06175 70336 67986 07310 40078  
30684 47847 44884 28574 63342 90940 25362 21401 98987 05424  
09804 93766 92155 14559 36736

**14672/13472/12172 kHz, 19-10/20-10/26-10/27-10, 1100/1120/1140 UTC**

04363 00084 07852 00950 75144 83618 25288 85284 64334 40214  
05382 97727 99968 04936 37515 69497 37944 07250 53597 18844  
26315 90501 35736 72318 09982 04776 74060 99663 58198 91423  
68600 42910 90374 13776 58691 91699 72632 60748 80462 07768  
79430 35571 72519 98470 36929 13651 61038 11586 54711 72405  
32692 54051 45822 05537 96072 19979 23743 98675 49045 97884  
82432 33336 37292 62590 00223 72655 39310 63158 75947 76221  
11893 20780 61988 49596 43266 65417 14418 79358 26252 37904  
62873 57911 12484 98367 71604 33540 31565

13452/14452/15852 kHz, 1200/1220/1240 UTC

**13452/14452/15852 kHz, 05-10/07-10, 1200/1220/1240 UTC**

00801 00186 73242 09779 98289 85501 76810 91253 52577 79006  
14168 67983 92592 26412 29069 00663 55961 22318 50490 41136  
22390 65339 61650 57752 41988 44383 79878 48879 24821 71415  
69364 86781 15901 78190 29147 58479 04783 44995 25324 59874  
29729 56063 08867 64941 18402 34727 90761 93205 62356 30798  
85399 87601 28282 25346 44723 93937 69320 87225 24318 14611  
68393 51021 23525 88011 10524 15969 96803 23112 13309 47105  
19406 83885 20200 98942 66339 37579 50996 78084 12603 53211  
44543 41396 85233 45007 05811 75584 69559 44510 32309 44884  
46409 78051 26793 13698 22229 21691 87090 00522 75086 55412  
77388 04680 60406 93255 05185 94898 21202 61192 44271 98242  
48315 82146 81860 05226 35401 67928 76087 44887 51413 23785  
40378 43061 15336 01727 04890 51267 15671 95095 19934 17507  
96555 55926 44303 65535 83555 34006 19538 08764 43005 82901  
45909 30976 13607 58986 39432 32729 21310 50772 68487 40661  
60289 60159 38951 74460 26301 40719 10208 79129 63074 27427  
14773 53563 07106 31439 98616 89765 48252 84195 66678 02057  
82577 61816 01019 74083 52207 61991 14842 44868 47381 32973  
45263 28722 47686 31947 10410 32493 39167 50040 57726

**13452/14452/15852 kHz, 12-10/14-10, 1200/1220/1240 UTC**

00957 00228 65438 44679 17486 85779 50771 39688 27077 11318  
48590 48699 52810 22373 52735 90220 68149 96620 41753 93514  
16278 48237 99822 52082 74301 94576 62273 15168 53125 56749  
32529 22321 25965 65246 94807 01808 73629 33541 11369 60179  
37945 79289 13466 19255 15311 80097 61774 07136 42628 90292  
20656 06943 91456 71635 67304 62414 25014 38563 20569 90725  
98063 36544 14059 64406 92611 15778 97542 89968 07071 47950  
39449 90588 92820 15976 84822 01391 04869 11244 13757 69219  
84197 50086 24892 69645 62506 54455 52392 42481 73259 39053  
08000 46861 48652 86873 93105 23833 33057 58927 77780 57795  
02737 62384 74274 05036 84206 14195 00895 91410 58123 16037  
78920 68463 69477 25232 46958 36169 58061 34945 08734 81894  
38922 88935 30684 62870 43193 54861 40909 69569 05963 88198  
23869 63173 55203 95624 07742 53428 62228 65371 67400 13603  
85723 49221 16239 80900 90444 69849 70336 80989 92290 47825  
10012 66701 29549 14621 40706 99857 10989 78740 09607 86122  
11494 02176 20681 56341 58543 53686 85917 72838 35489 71414  
19250 77003 67539 73200 28837 96618 40973 95402 91212 85674  
14456 44445 54980 39604 57595 62213 21493 14013 95627 06697  
56933 91834 16423 39238 99826 55609 40101 61848 92913 57647  
22842 28697 53863 03584 71891 50303 57092 73732 76715 57741  
65487 81982 89075 08360 82448 43754 90492 79185 26063 53047  
93886 20924 65253 27680 26528 89975 99674 74616 68114 61425  
11623

**13452/14452/15852 kHz, 19-10/21-10, 1200/1220/1240 UTC**

04237 00208 78685 29159 94418 99414 79319 39555 57969 90454  
80839 79181 97376 87374 67273 94081 43772 37537 77157 99563  
29732 58066 40587 80786 44731 34240 80668 65111 55587 00960  
15101 85733 04403 19486 52460 80004 25590 22297 17342 03928  
68330 29759 86826 77959 18589 02742 10498 23424 72689 13686  
23213 39011 48228 17692 13844 61453 08486 07638 87165 61990  
32678 39877 78349 55741 44929 32709 20890 67960 59687 90506  
19070 32717 83226 31476 94271 60194 93816 34759 96796 19160  
26759 12282 59074 82284 30540 29363 18474 55412 69637 64182  
70484 57487 41390 16037 35477 16942 65121 25381 08852 76118  
12639 10514 67197 86848 19858 60479 70974 12500 62123 30853  
45272 34864 52226 90647 57350 92850 33410 72879 60611 56999  
64974 31821 23643 65131 60776 83995 50348 65618 25238 85735  
52204 68730 33230 28808 70919 67192 08099 67797 88858 32233  
14786 88719 35530 18335 77683 26218 61910 37139 47606 50066  
83333 81351 53343 52303 95176 65347 98450 64749 38781 08476  
76432 42015 86425 16029 55204 18246 35179 29586 68830 48086  
22396 84144 98021 68054 80027 49181 08141 29339 46922 03494  
27974 45512 36699 58334 30992 91919 24876 15569 78479 36057  
70057 20772 04252 63875 16115 98095 17804 64118 44369 03305  
39881 42019 25321 26777 90228 89431 42291 47709 28824 16113  
40507

**13452/14452/15852 kHz, 26-10/28-10, 1200/1220/1240 UTC**

00967 00184 52520 24576 50917 35668 92254 08784 52330 91576  
35010 37019 96896 51983 77935 70720 24037 12990 53964 76730  
17465 87723 48452 95243 66287 71048 66793 14612 17553 00356  
37323 94830 73800 57885 54041 38422 37718 78451 26379 85183  
33383 63552 86663 96562 43813 56146 27004 39302 63066 31821  
43386 85960 75861 38823 01199 47433 14876 18607 78907 97720  
36696 55220 42763 57347 52924 22486 19207 41923 46062 17834  
27826 23050 27584 51227 21479 85837 86828 01880 30046 06306  
81350 23384 32866 18308 51385 03606 40166 03163 72338 63735  
23603 03288 36883 64108 50441 83333 22181 46366 30016 04780  
78380 08188 56608 88280 32800 38343 16552 10173 80078 08243  
55842 05480 61034 58338 33820 60025 32080 61766 87495 67903

05436 50773 33270 40966 31687 75148 30882 63725 53261 68473  
11512 28650 28810 43039 35539 10511 37409 91410 92734 30481  
70480 61131 98086 05068 62666 80812 26600 40848 50047 36535  
60665 00140 66106 72385 62888 18883 63388 88860 02822 72326  
58237 91745 37853 03702 16604 24203 46038 88439 87163 45592  
86403 31170 13727 08814 53508 64761 70852 37275 51037 88695  
87270 33890 51249 03634 39113 47906 35556

Test or trainings sessions

**9142/10256/11574 kHz, 12-10, 0910/0915/9020 UTC**

00279 00020 19085 87241 43322 38726 82944 82323 11918 81939  
00662 77213 60124 53071 43275 11573 85316 03995 12192 96455  
38910 21861 32075

**13906 kHz, 17-10, 0817 UTC**

06555 00027 34327 37647 16834 32074 05830 81757 67152 43852  
60623 32800 58225 75817 18050 35218 82446 08686 61651 64704  
84661 68010 60710 24745 77841 02432 86260 45630 08488 53701

***XPB1***

16245 kHz, 01-10/05-10/08-10/1210/15-10/19-10/22-10/26-10/29-10, 1100 UTC  
15825 kHz, 01-10/05-10/08-10/1210/15-10/19-10/22-10/26-10/29-10, 1110 UTC  
14925 kHz, 01-10/05-10/08-10/1210/15-10/19-10/22-10/26-10/29-10, 1120 UTC  
13525 kHz, 01-10/05-10/08-10/1210/15-10/19-10/22-10/26-10/29-10, 1130 UTC  
12125 kHz, 01-10/05-10/08-10/1210/15-10/19-10/22-10/26-10/29-10, 1140 UTC  
11425 kHz, 01-10/05-10/08-10/1210/15-10/19-10/22-10/26-10/29-10, 1150 UTC

14462 kHz, 01-10/03-10/08-10/10-10/15-10/17-10/22-10/24-10/29-10/31-10, 1200 UTC  
13962 kHz, 01-10/03-10/08-10/10-10/15-10/17-10/22-10/24-10/29-10/31-10, 1210 UTC  
13462 kHz, 01-10/03-10/08-10/10-10/15-10/17-10/22-10/24-10/29-10/31-10, 1220 UTC  
12162 kHz, 01-10/03-10/08-10/10-10/15-10/17-10/22-10/24-10/29-10/31-10, 1230 UTC  
11562 kHz, 01-10/03-10/08-10/10-10/15-10/17-10/22-10/24-10/29-10/31-10, 1240 UTC  
10962 kHz, 01-10/03-10/08-10/10-10/15-10/17-10/22-10/24-10/29-10/31-10, 1250 UTC

9323 kHz, 02-10/04-10/11-10/16-10/18-10/23-10/25-10/30-10, 1900 UTC  
8123 kHz, 02-10/04-10/11-10/16-10/18-10/23-10/25-10/30-10, 1910 UTC  
7723 kHz, 02-10/04-10/11-10/16-10/18-10/23-10/25-10/30-10, 1920 UTC  
6923 kHz, 02-10/04-10/11-10/16-10/18-10/23-10/25-10/30-10, 1930 UTC  
5823 kHz, 02-10/04-10/11-10/16-10/18-10/23-10/25-10/30-10, 1940 UTC  
5123 kHz, 02-10/04-10/11-10/16-10/18-10/23-10/25-10/30-10, 1950 UTC

13471 kHz, 03-10/04-10/10-10/11-10/16-10/18-10/17-10/24-10/15-10/31-10, 0500 UTC  
14771 kHz, 03-10/04-10/10-10/11-10/16-10/18-10/17-10/24-10/15-10/31-10, 0510 UTC  
15871 kHz, 03-10/04-10/10-10/11-10/16-10/18-10/17-10/24-10/15-10/31-10, 0520 UTC  
16271 kHz, 03-10/04-10/10-10/11-10/16-10/18-10/17-10/24-10/15-10/31-10, 0530 UTC  
17471 kHz, 03-10/04-10/10-10/11-10/16-10/18-10/17-10/24-10/15-10/31-10, 0540 UTC  
18271 kHz, 03-10/04-10/10-10/11-10/16-10/18-10/17-10/24-10/15-10/31-10, 0550 UTC

20075 kHz, 18-10/21-10/25-10/28-10, 1300 UTC  
19575 kHz, 18-10/21-10/25-10/28-10, 1310 UTC  
18175 kHz, 18-10/21-10/25-10/28-10, 1320 UTC  
17475 kHz, 18-10/21-10/25-10/28-10, 1330 UTC  
16275 kHz, 18-10/21-10/25-10/28-10, 1340 UTC  
14975 kHz, 18-10/21-10/25-10/28-10, 1350 UTC

## Training sessions

9283 kHz, 13-10, 0650 UTC, MFSK-16/132Bd (1m42s)  
10427 kHz, 13-10, 0655 UTC, MFSK-16/132Bd (1m42s)  
11574 kHz, 13-10, 0700 UTC, MFSK-16/132Bd (1m42s)  
12192 kHz, 13-10, 0705 UTC, MFSK-16/132Bd (1m42s)  
13964 kHz, 13-10, 0710 UTC, MFSK-16/132Bd (1m42s)  
14712 kHz, 13-10, 0715 UTC, MFSK-16/132Bd (1m42s)

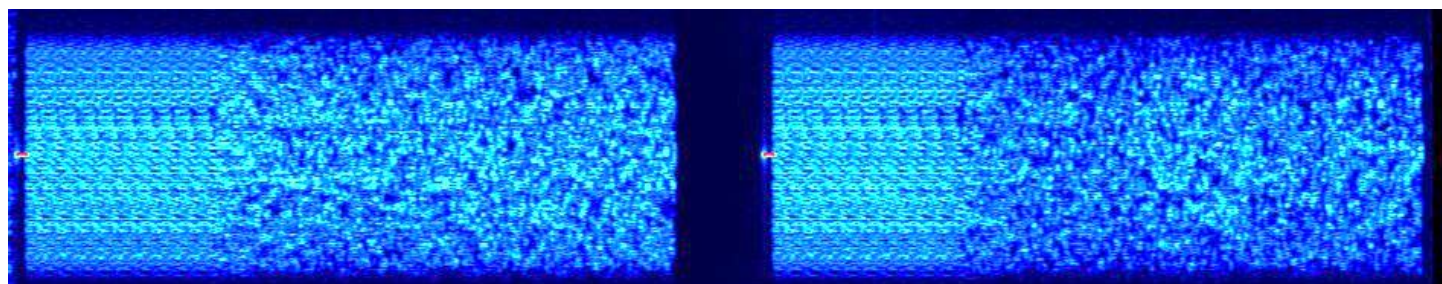
9283 kHz, 13-10, 0745 UTC, MFSK-16/132Bd (2m34s)  
10427 kHz, 13-10, 0750 UTC, MFSK-16/132Bd during 3 seconds then abruptly off  
11574 kHz, 13-10, 0750 UTC, MFSK-16/132Bd up mid message (2m12s)  
11574 kHz, 13-10, 0755 UTC, MFSK-16/132Bd (2m34s)  
12192 kHz, 13-10, 0800 UTC, MFSK-16/132Bd not heard  
13964 kHz, 13-10, 0805 UTC, MFSK-16/132Bd (2m34s)  
14712 kHz, 13-10, 0810 UTC, MFSK-16/132Bd (2m34s)

8094 kHz, 28-10, 1128 UTC, CW. Carrier for 15s. 1130z: 1000Hz test tone  
8094 kHz, 28-10, 1135 UTC, MFSK-16/66Bd. (1m32s)  
9142 kHz, 28-10, 1140 UTC, MFSK-16/66Bd. (1m32s)  
10256 kHz, 28-10, 1145 UTC. Nul

## DIPLOMATIC STATIONS

### Bulgarian diplomatic stations

17442 kHz, 07-10, 1233 UTC, RFSM	MFA Sofia tfc to unid embassy
17442 kHz, 07-10, 1300 UTC, RFSM	MFA Sofia tfc to unid embassy
17440 kHz, 14-10, 1225 UTC, RFSM	MFA Sofia tfc to unid embassy. QSX 17464 kHz
17464 kHz, 14-10, 1225 UTC, RFSM	Unid embassy tfc to MFA Sofia. QSX 17440 kHz
17442 kHz, 14-10, 1300 UTC, RFSM	Bulgarian diplo
17440 kHz, 21-10, 1226 UTC, RFSM	MFA Sofia tfc to unid embassy. QSX 17464 kHz
17464 kHz, 21-10, 1226 UTC, RFSM	Unid embassy tfc to MFA Sofia. QSX 17440 kHz
17442 kHz, 21-10, 1300 UTC, RFSM	Bulgarian diplo
17440 kHz, 28-10, 1225 UTC, RFSM	MFA Sofia tfc to unid embassy. QSX 17464 kHz
17464 kHz, 28-10, 1225 UTC, RFSM	Unid embassy tfc to MFA Sofia. QSX 17440 kHz
17440 kHz, 28-10, 1300 UTC, RFSM	Bulgarian diplo



### North Korean diplomatic stations

12203 kHz, 03-10, 0500 UTC. QSX 12208 kHz	
12208 kHz, 03-10, 0500 UTC. QSX 12203 kHz	
16252 kHz, 04-10, 1228 UTC	
14400 kHz, 07-10, 1330 UTC. QSX 14405 kHz	
14405 kHz, 07-10, 1330 UTC. QSX 14400 kHz	
14300 kHz, 07-10, 1333 UTC. QSX 14280 kHz	
14280 kHz, 07-10, 1336 UTC. QSX 14300 kHz	
16450 kHz, 07-10, 1342 UTC. QSX 16254 kHz	
16254 kHz, 07-10, 1336 UTC. QSX 16450 kHz	



20002 kHz, 12-10, 0646 UTC  
 11045 kHz, 12-10, 0820 UTC. QSX 11050 kHz  
 11050 kHz, 12-10, 0820 UTC. QSX 11045 kHz  
 14300 kHz, 12-10, 0822 UTC  
 11350 kHz, 12-10, 0828 UTC. QSX 11300 kHz  
 11300 kHz, 12-10, 0828 UTC. QSX 11350 kHz  
 14300 kHz, 18-10, 1233 UTC  
 11047 kHz, 18-10, 1236 UTC  
 17450 kHz, 19-10, 0800 UTC  
 12400 kHz, 21-10, 1009 UTC  
 12405 kHz, 22-10, 0840 UTC  
 12204 kHz, 26-10, 0458 UTC  
 12204 kHz, 27-10, 0500 UTC  
 16250 kHz, 27-10, 0649 UTC. QSX 16252 kHz  
 16252 kHz, 27-10, 0649 UTC. QSX 16250 kHz  
 12400 kHz, 27-10, 0651 UTC  
 19100 kHz, 27-10, 0732 UTC  
 12200 kHz, 27-10, 0756 UTC  
 17950 kHz, 27-10, 0819 UTC  
 16450 kHz, 27-10, 0820 UTC  
 12400 kHz, 27-10, 0823 UTC  
 10960 kHz, 27-10, 0839 UTC  
 12200 kHz, 27-10, 0906 UTC. QSX 12205 kHz  
 12205 kHz, 27-10, 0906 UTC. QSX 12200 kHz  
 17320 kHz, 27-10, 1316 UTC  
 12400 kHz, 28-10, 0810 UTC  
 17320 kHz, 28-10, 1303 UTC  
 17450 kHz, 29-10, 0755 UTC  
 12400 kHz, 29-10, 0807 UTC  
 17315 kHz, 29-10, 0930 UTC  
 17320 kHz, 30-10, 0704 UTC. QSX 16252 kHz  
 16252 kHz, 30-10, 0704 UTC. QSX 17320 kHz  
 17450 kHz, 30-10, 0904 UTC. QSX 16675 kHz  
 16675 kHz, 30-10, 0908 UTC. QSX 17450 kHz  
 12400 kHz, 31-10, 0800 UTC

## ***Egyptian diplomatic stations***

26180 kHz, 07-10, 1050 UTC, CODAN-3012  
 11116,7 kHz, 09-10, 1748 UTC, SITOR-A 100/170

6955 kHz, 11-10, 0858 UTC, CODAN-3012  
 18315 kHz, 21-10, 1040 UTC, CODAN-3012  
 12215 kHz, 26-10, 0459 UTC, CODAN-3012  
 17411,7 kHz, 28-10, 1445 UTC, SITOR-A 100/170  
 17410 kHz, 28-10, 1450 UTC, CODAN-3012  
 17445.7 kHz, 29-10, 0755 UTC, SITOR-A 100-170  
 17416.7 kHz, 29-10, 0905 UTC, SITOR-A 100-170  
 17421.7 kHz, 29-10, 0915 UTC, SITOR-A 100-170  
 16781.7 kHz, 29-10, 1005 UTC, SITOR-A 100-170

Egyptian diplo i.p.

Egyptian diplo i.p. SUNDAY, OCTOBER 09022 NUMBER OF GROUPS: 231 URGENT followed by 5-character groups

Egyptian diplo i.p.

99901: MFA Cairo msg to 44405: Egyptian embassy Islamabad

Egyptian diplo i.p.

MFA Cairo clg TVXC: Egyptian embassy Abidjan

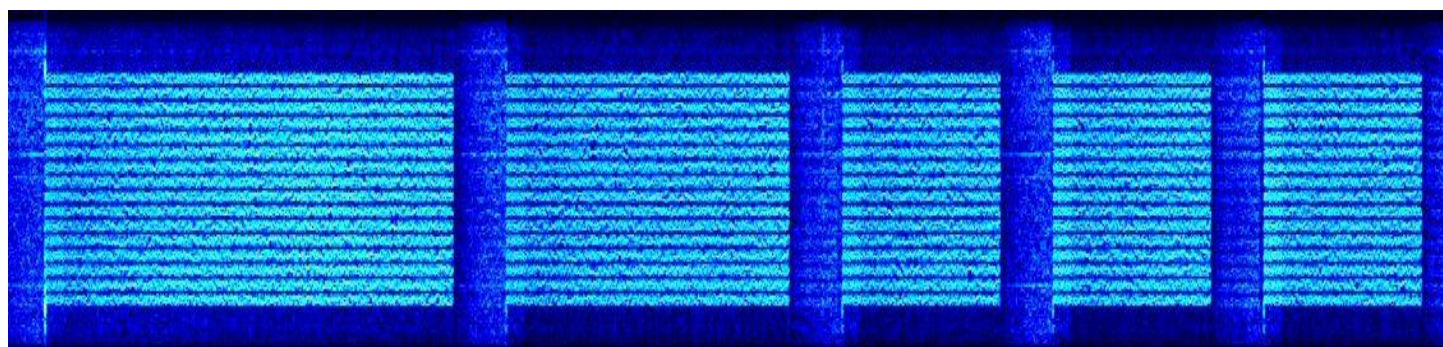
99901: MFA Cairo msg to 00016: Egyptian embassy Abidjan

MFA Cairo wkg unid embassy

MFA Cairo wkg unid embassy

MFA Cairo clg XBVM: Egyptian embassy Berlin

MFA Cairo wkg unid embassy



CODAN-3012



## Tunisian diplomatic stations

16125 kHz, 12-10, 0605 UTC, Mil-STD-188-141A/USB  
 16125 kHz, 12-10, 0621 UTC, Mil-STD-188-141A/USB  
 15635 kHz, 12-10, 0709 UTC, PACTOR-II  
 15635 kHz, 12-10, 0713 UTC, Mil-STD-188-141A/USB  
 12140 kHz, 12-10, 0923 UTC, PACTOR-II  
 12140 kHz, 12-10, 0928 UTC, Mil-STD-188-141A/USB  
 12140 kHz, 12-10, 0951 UTC, Mil-STD-188-141A/USB  
 12140 kHz, 12-10, 0955 UTC, Mil-STD-188-141A/USB  
 12140 kHz, 12-10, 0955 UTC, Mil-STD-188-141A/USB

12140 kHz, 13-10, 1043 UTC, Mil-STD-188-141A/USB  
 12140 kHz, 13-10, 1043 UTC, Mil-STD-188-141A/USB  
 12140 kHz, 13-10, 1043 UTC, Mil-STD-188-141A/USB

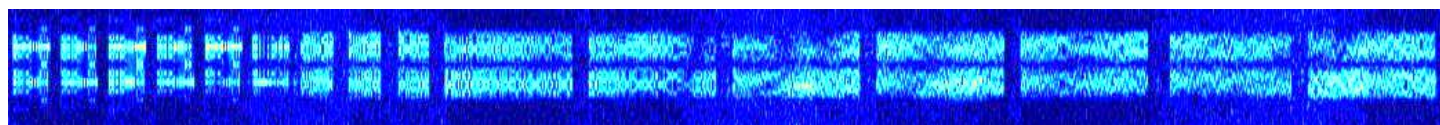
12140 kHz, 18-10, 0846 UTC, PACTOR-II  
 12140 kHz, 18-10, 0851 UTC, Mil-STD-188-141A/USB  
 12140 kHz, 18-10, 0852 UTC, Mil-STD-188-141A/USB  
 12140 kHz, 18-10, 0857 UTC, Mil-STD-188-141A/USB  
 16125 kHz, 19-10, 0600 UTC, Mil-STD-188-141A/USB  
 12140 kHz, 19-10, 0729 UTC, Mil-STD-188-141A/USB  
 12140 kHz, 20-10, 0853 UTC, Mil-STD-188-141A/USB  
 12140 kHz, 20-10, 0900 UTC, PACTOR-II

12140 kHz, 20-10, 0903 UTC, Mil-STD-188-141A/USB  
 12140 kHz, 20-10, 1002 UTC, Mil-STD-188-141A/USB

12140 kHz, 20-10, 1028 UTC, Mil-STD-188-141A/USB  
 13945 kHz, 27-10, 0803 UTC, PACTOR-II

13945 kHz, 27-10, 0816 UTC, Mil-STD-188-141A/USB  
 12140 kHz, 31-10, 0838 UTC, Mil-STD-188-141A/USB  
 12140 kHz, 31-10, 0839 UTC, Mil-STD-188-141A/USB

STAT11: Unid Tunisian embassy clg STAT155: MFA Tunis  
 STAT155: MFA Tunis clg STAT11: Unid Tunisian embassy  
 MFA Tunis sending encrypted email  
 STAT5: unid Tunisian embassy clg STAT154: MFA Tunis  
 Tunisian diplo. Encrypted email  
 STAT152: MFA Tunis clg STAT22: Tunisian embassy Rabat  
 STAT24: Tunisian embassy Rome sounding  
 TUD: MFA Tunis clg STAT21: Tunisian embassy Algiers  
 STAT21: Tunisian embassy Algiers clg TUD: MFA Tunis followed by  
 encrypted email in PACTOR-II #HFARQ#STAT152 #HFARQ#STAT152  
 STAT152: MFA Tunis clg STAT21: Tunisian embassy Algiers  
 STAT21: Tunisian embassy Algiers clg TUD: MFA Tunis  
 TUD: MFA Tunis clg STAT21: Tunisian embassy Algiers followed by  
 encrypted email in PACTOR-II  
 Tunisian diplo, encrypted email  
 TUD: MFA Tunis clg STAT21: Tunisian embassy Algiers  
 STAT24: Tunisian embassy Rome, sounding  
 STAT21: Tunisian embassy Algiers clg TUD: MFA Tunis  
 STAT11: unid Tunisian embassy clg STAT155: MFA Tunis  
 STAT24: Tunisian embassy Rome clg STAT155: MFA Tunis  
 STAT21: Tunisian embassy Algiers clg TUD: MFA Tunis  
 MFA Tunis: encrypted email to STA25: Tunisian embassy Brussels. IPM.  
 Note mail.hse HFARQ#STAT152 HFARQ#STAT25  
 20221020110150:DEFAULT@  
 TUD: MFA Tunis clg STAT21: Tunisian embassy Algiers  
 STAT155: MFA Tunis clg STAT24: Tunisian embassy Rome followed by  
 encrypted email in PACTOR-II  
 STAT24: Tunisian embassy Rome clg STAT155: MFA Tunis  
 STAT154: MFA Tunis encrypted email to unid embassy IPM.Note mail.hse  
 DEFAULT@#HFARQ#STAT154 DEFAULT@#HFARQ#STAT154 HFARQ#STA  
 20221027090038:DEFAULT@  
 STAT154: MFA Tunis clg TU1: Tunisian embassy Paris  
 TUD: MFA Tunis clg STAT21: Tunisian embassy Algiers  
 STAT21: Tunisian embassy Algiers clg TUD: MFA Tunis



PACTOR-II

## Russian diplomatic stations

13401 kHz, 04-10, 0831 UTC, MFSK-6  
 17475 kHz, 10-10, 0822 UTC, MFSK-6  
 14630 kHz, 11-10, 0832 UTC, Serdolik v2  
 15654 kHz, 11-10, 0855 UTC, OFDM-121  
 12164 kHz, 11-10, 1000 UTC, OFDM-121  
 12105 kHz, 11-10, 1000 UTC, OFDM-121  
 15654 kHz, 11-10, 1030 UTC, OFDM-121  
 19531 kHz, 12-10, 0649 UTC, OFDM-121  
 12188 kHz, 12-10, 0805 UTC, Serdolik v2  
 12188 kHz, 12-10, 0820 UTC, Serdolik v2  
 13506 kHz, 13-10, 1000 UTC, MFSK-6  
 14630 kHz, 13-10, 1006 UTC, Serdolik v2  
 16153 kHz, 13-10, 0812 UTC, MFSK-6  
 10408 kHz, 14-10, 0848 UTC, MFSK-66  
 11638 kHz, 17-10, 0648 UTC, MFSK-6  
 18750 kHz, 17-10, 0926 UTC, MFSK-6  
 18750 kHz, 17-10, 0923 UTC, MFSK-6

MFA Moscow clg 154263: Russian embassy Rome  
 MFA Moscow clg 156234: Russian embassy Kampala  
 Russian diplo/intel.  
 MFA Moscow tfc to unid embassy  
 Russian diplo  
 Russian diplo  
 MFA Moscow tfc to unid embassy  
 Russian diplo  
 Russian diplo/intel.  
 Russian diplo/intel.  
 MFA Moscow clg 164532: Russian embassy Dublin  
 Russian diplo  
 MFA Moscow clg 153624: Russian embassy Damascus  
 Russian diplo  
 MFA Moscow clg 165324: Russian embassy Vienna  
 MFA Moscow clg 641523: Russian embassy Lusaka  
 MFA Moscow clg 641523: Russian embassy Lusaka

20333 kHz, 18-10, 0923 UTC, MFSK-66	Russian diplo/intel.
19478 kHz, 21-10, 1039 UTC, Serdolik V2	Russian diplo
19234 kHz, 24-10, 0925 UTC, MFSK-6	MFA Moscow clg 463125: Russian embassy Rabat
15656 kHz, 24-10, 1245 UTC, MFSK-6	MFA Moscow clg 364152: Russian embassy New Delhi
20813 kHz, 25-10, 1020 UTC, MFSK-6	MFA Moscow clg 216354: Russian Consulate General Chennai
10814 kHz, 26-10, 0739 UTC, MFSK-6	MFA Moscow clg 412356: Russian embassy Budapest
14657 kHz, 26-10, 0747 UTC, Serdolik v2	Russian diplo
16116 kHz, 26-10, 0928 UTC, MFSK-6	MFA Moscow clg 134265: Russian embassy Tunis
16153 kHz, 27-10, 0825 UTC, MFSK-6	MFA Moscow clg 153624: Russian embassy Damascus
9357 kHz, 28-10, 0830 UTC, OFDM-121	Russian diplo/intel.
17431 kHz, 28-10, 1039 UTC, MFSK-66	Russian diplo
17463 kHz, 28-10, 1211 UTC, MFSK-6	MFA Moscow clg 256134: Russian embassy Abidjan

## CLANDESTINE STATIONS

10200 kHz, 31-10, 1036 UTC, USB	Russian national anthem. Loop transmission for at least 2 hours
7050 kHz, 31-10, 1252 UTC, LSB	Russian-Ukrainian radio war
7055 kHz, 31-10, 1322 UTC, LSB	Russian-Ukrainian radio war

## UTILITY ROUND-UP

### Chinese Military

**7700 kHz, 01-10, 1307 UTC**

Mil-STD-188-141A/USB: 146 clg 901

followed by voice traffic (stations A and B = 149 and 901 unclear which is which) and OFDM-39

A: (Unclear talking) 1515 stick together(?)

B: Ok (Unclear) 0574, 0574

A: Ok 1636 telegram please sent it.

B: Ok, please copy.

OFDM-39 message

B: How's receiving?

A: It's good.

Mil-STD-188-141A/USB (end of traffic)

## EMERGENCY ACTION MESSAGES & FOXTROT MESSAGES

**Frequencies: 4724, 8992, 11175, 15016 kHz.**

Date	UTC	Callsign	Details
26-10	1618	Distinct	30 chr EAM 6GPLH7 Q6KM3ACL4HGMDCHYTSWLH3YJ
26-10	1632	Distinct	30 chr EAM 6GDENV ZNHR7HM4QGJ5Z6P4GLJAF5B
26-10	1652	Distinct	30 chr EAM 6G04TW O2OYKKDAJTAEGEY2NQNARWLZ
26-10	1802	Distinct	30 chr EAM 6GH5AI 4HCQ42SZCR6CZTEBJTGLHZU3
26-10	1816	Distinct	30 chr EAM 6GHTDF JQ6FUG43LEUKGJRQPPAITAYB
26-10	1832	Distinct	30 chr EAM for Tinfoil ELACN7 WAPLCVB5RHHBWOZ2M6FL4EYZ
26-10	1845	Distinct	30 chr EAM 6GFQEB HWEATFLFTT6YCTHRVGFZAE2
26-10	1942	Distinct	30 chr EAM for Tinfoil ELMIEI SHMVGXBPO4O2PYVVSOSDWUHB
26-10	1946	Distinct	30 chr EAM 6GSKFW U7W54H6GRV7DPINHVRN7MKNM
26-10	1949	Distinct	30 chr EAM 6GORFP R6TLEEKWNDLDVOG3K2SFC6WQ
26-10	2000	Distinct	30 chr EAM 6GORFP R6TLEEKWNDLDVOG3K2SFC6WQ
26-10	2002	Distinct	30 chr EAM 6GSKFW U7W54H6GRV7DPINHVRN7MKNM
26-10	2023	Distinct	30 chr EAM 6GC4R6 6TKILVNVAO6F67SNOB6BDPEH
26-10	2025	Distinct	30 chr EAM 6GC4R6 6TKILVNVAO6F67SNOB6BDPEH
26-10	2030	Distinct	30 chr EAM 6GC4R6 6TKILVNVAO6F67SNOB6BDPEH
26-10	2032	Distinct	30 chr EAM 6GORFP R6TLEEKWNDLDVOG3K2SFC6WQ
26-10	2034	Distinct	30 chr EAM 6GSKFW U7W54H6GRV7DPINHVRN7MKNM
27-10	0120	Distinct	38 chr EAM ELCYWJ NKK72U6GKO3LUSI3KOIHPOWIHKJG4P7L
27-10	0139	Distinct	30 chr EAM ELNZCU 5WGKZEJHVCN2QLF6LLCXGQ5H

27-10	0220	Distinct	30 chr EAM 6GFWNH CFRJBD4P656QTGLLFNRQVCPG
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## RUSSIAN MILITARY TRANSCRIPTS

Excerpts from messages submitted by AB, Max and VSh

### Morse transmissions

Russian Military morse traffic

#### 17454 kHz, 02-10, 0803 UTC

MUOP MUOP MUOP DE ORM9 ORM9 K

#### 7824 kHz, 04-10, 1905 UTC

VVV VHBO VHBO VHBO

VHBO VHBO VHHB

#### 13442 kHz, 12-10, 0801 UTC

RGT77 RGT77 062 =

DDDDD YuYIKP DDEYaD ONHYD ShNHYP OYaCCV ShNYD DShCCV ShNHYP LYaCCV

DHOSHc TFLVT YaPPQU YaVPYaW = K

#### 17454 kHz, 16-10/18-10, 0811 UTC, i.p.

RK

SRYG SRYG SRYG DE OZ7O OZ7O K

JGNI JGNI JGNI DE OZ7O OZ7O QRV K

#### 17460 kHz, 26-10, 1415 UTC, FSK CW

RDL RDL RDL 31929 66956 31929 66956 31929 66956 K

#### 17460 kHz, 26-10, 1459 UTC, FSK CW

RDL RDL RDL 74029 98552 74029 98552 74029 98552 K

#### 17460 kHz, 26-10, 1535 UTC, FSK CW

RDL RDL RDL 66469 94029 66469 94029 66469 94029 K

#### 3981 kHz, 31-10, 2025 UTC, i.p.

2 K

RPT 15 K

RPT 37 K

RPT 35 K

RPT 35 K

BK BK RPT AA45 K

RPT AA45 K

O6AR 967 49 31 22

O6AR = O6AR 967 49 31 34 8 967 K

O6AR = 093 K

O6AR = SNYEA .....

O6AR = 230 K

Russian Navy morse traffic

#### 6324 kHz, 04-10, 1020 UTC,

RMPK: Nina Sokolova/SB-121 (seagoing tug/Project 02980), 501ST SAR group, MMSI 273545330, wkg RMP, navy Kaliningrad.

AIS pos 57.6N/11.1E at anchor east Skagen, voyage Lomonosov > Kattegat.

#### 6324 kHz, 04-10, 1245 UTC

RMPK: Nina Sokolova/SB-121 (seagoing tug/Project 02980), 501ST SAR group, MMSI 273545330, wkg RMP, navy Kaliningrad.

AIS pos 57.6N/11.1E at anchor east Skagen, voyage Lomonosov > Kattegat,

#### 6324 kHz, 05-10, 1205 UTC

UCTA5: Kola (medium seagoing tanker/Project 160)

MMSI 273318510, CW/A1A, wkg RMP QTC 482 16 1502 482=SML FOR RJH82 RCD88 = FM13 wx code.

AIS pos 57.6N/11.0E at anchor east Skagen, voyage Baltysk > Kattegat,



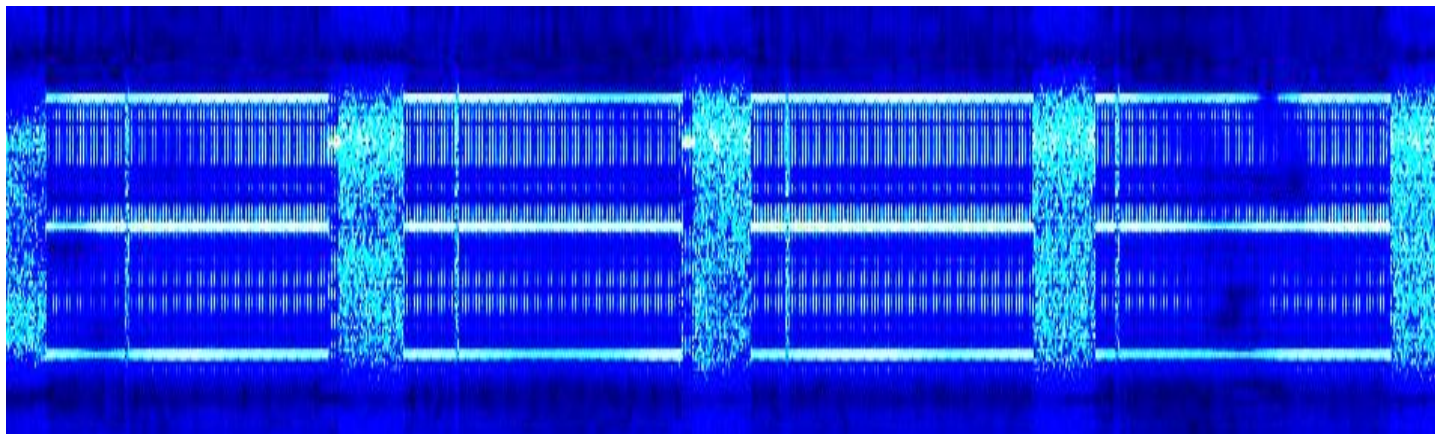
**6324 kHz, 05-10, 1240 UTC**

RMPK: Nina Sokolova/SB-121 (seagoing tug/Project 02980), 501ST SAR group, MMSI 273545330, wkg RMP, navy Kaliningrad.  
AIS Pos 57.6N/11.1E at anchor east Skagen, voyage Lomonosov > Kattegat,

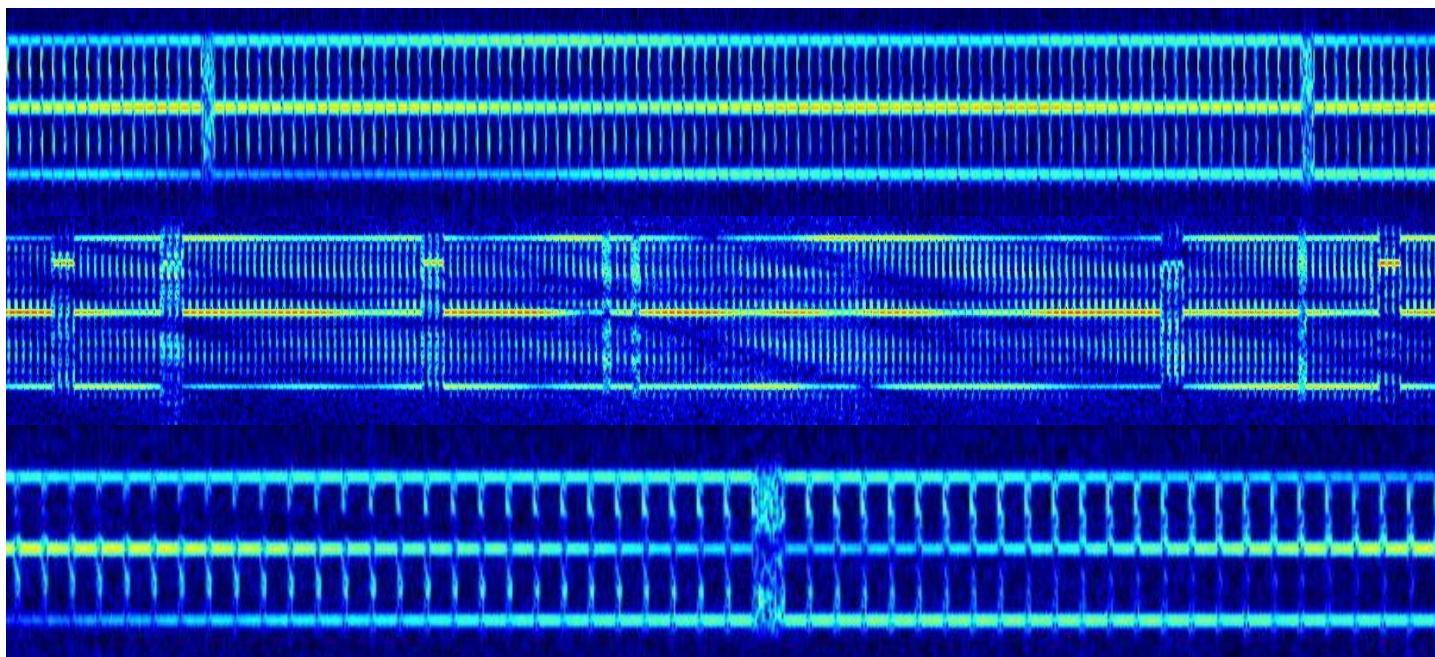
Russian Naval Air Transport morse traffic

Russian tactical data links

5390 kHz, 07-10, 1820 UTC, FSK 1200Bd/800  
5390 kHz, 09-10, 1700 UTC, FSK 1200Bd/800  
5390 kHz, 10-10, 1408 UTC, FSK 1200Bd/800  
5390 kHz, 12-10, 1712 UTC, FSK 1200Bd/800  
5390 kHz, 29-10, 1310 UTC, FSK 1200Bd/800



3392 kHz, 14-09, 0252 UTC, Akkord-SS-PD/USB, 1200BD/800Hz cf 1700HZ 69/48 bits unscrambled mode  
3845 kHz, 14-09, 0315 UTC, Akkord-SS-PD/USB, 1200BD/800Hz cf 1700HZ 69/48 bits unscrambled mode  
4220 kHz, 14-09, 0317 UTC, Akkord-SS-PD/USB, 1200BD/800Hz cf 1700HZ 69/48 bits unscrambled mode  
4242 kHz, 14-09, 0319 UTC, Akkord-SS-PD/USB, 1200BD/800Hz cf 1700HZ 69/48 bits unscrambled mode  
4680 kHz, 14-09, 0321 UTC, Akkord-SS-PD/USB, 1200BD/800Hz cf 1700HZ 69/48 bits unscrambled mode



## LOGS SECTION

Code	Date	UTC	freq	day	Veld0	mode	ctrb
---	31-10	1036	10200	Mon	Russian national anthem. Loop transmission for at least 2 hours	USB	(AB)
---	31-10	1252	7050	Mon	Russian-Ukrainian radio war	LSB	(AB)
BUL	7-10	1233	17442	Fri	MFA Sofia tfc to unid embassy	RFSM	(AB)
BUL	7-10	1300	17442	Fri	MFA Sofia tfc to unid embassy	RFSM	(AB)
BUL	14-10	1225	17440	Fri	MFA Sofia tfc to unid embassy. QSX 17464 kHz	RFSM	(AB)
BUL	14-10	1225	17464	Fri	Unid embassy tfc to MFA Sofia. QSX 17440 kHz	RFSM	(AB)
BUL	14-10	1300	17442	Fri	Bulgarian diplo	RFSM	(AB)
BUL	21-10	1226	17440	Fri	MFA Sofia tfc to unid embassy. QSX 17464 kHz	RFSM	(AB)
BUL	21-10	1226	17464	Fri	Unid embassy tfc to MFA Sofia. QSX 17440 kHz	RFSM	(AB)
BUL	21-10	1300	17442	Fri	Bulgarian diplo	RFSM	(AB)
BUL	28-10	1225	17440	Fri	MFA Sofia tfc to unid embassy. QSX 17464 kHz	RFSM	(AB)
BUL	28-10	1225	17464	Fri	Unid embassy tfc to MFA Sofia. QSX 17440 kHz	RFSM	(AB)
BUL	28-10	1300	17440	Fri	Bulgarian diplo	RFSM	(AB)
DPRK	3-10	0500	12203	Mon	North Korean diplo. QSX 12208 kHz	DPRK-ARQ 600 LSB	(AB-J)
DPRK	3-10	0500	12208	Mon	North Korean diplo. QSX 12203 kHz	DPRK-ARQ 600 LSB	(AB-J)
DPRK	4-10	1228	16252	Tue	North Korean diplo	DPRK-ARQ 600 LSB	(AB)
DPRK	7-10	1330	14400	Fri	North Korean diplo. QSX 14405 kHz	DPRK-ARQ 600 LSB	(AB)
DPRK	7-10	1330	14405	Fri	North Korean diplo. QSX 14400 kHz	DPRK-ARQ 600 LSB	(AB)
DPRK	7-10	1333	14300	Fri	North Korean diplo. QSX 14280 kHz	DPRK-ARQ 600 LSB	(AB)
DPRK	7-10	1336	14280	Fri	North Korean diplo. QSX 14300 kHz	DPRK-ARQ 600 LSB	(AB)
DPRK	7-10	1336	16254	Fri	North Korean diplo. QSX 16450 kHz	DPRK-ARQ 600 LSB	(AB)
DPRK	7-10	1342	16450	Fri	North Korean diplo. QSX 16254 kHz	DPRK-ARQ 600 LSB	(AB)
DPRK	12-10	0646	20002	Wed	North Korean diplo	DPRK-ARQ 600 LSB	(AB)
DPRK	12-10	0820	11045	Wed	North Korean diplo. QSX 11050 kHz	DPRK-ARQ 600 LSB	(AB)
DPRK	12-10	0820	11050	Wed	North Korean diplo. QSX 11045 kHz	DPRK-ARQ 600 LSB	(AB)
DPRK	12-10	0822	14300	Wed	North Korean diplo	DPRK-ARQ 600 LSB	(AB)
DPRK	12-10	0828	11300	Wed	North Korean diplo. QSX 11350 kHz	DPRK-ARQ 600 LSB	(AB)
DPRK	12-10	0828	11350	Wed	North Korean diplo. QSX 11300 kHz	DPRK-ARQ 600 LSB	(AB)
DPRK	18-10	1233	14300	Tue	North Korean diplo	DPRK-ARQ 600 LSB	(AB)
DPRK	18-10	1236	11047	Tue	North Korean diplo	DPRK-ARQ 600 LSB	(AB)
DPRK	19-10	0800	17450	Wed	North Korean diplo	DPRK-ARQ 600 LSB	(AB)
DPRK	21-10	1009	12400	Fri	North Korean diplo	DPRK-ARQ 600 LSB	(AB)
DPRK	22-10	0840	12405	Sat	North Korean diplo	DPRK-ARQ 600 LSB	(AB)
DPRK	26-10	0458	12204	Wed	North Korean diplo i.p.	DPRK-ARQ 600 LSB	(AB-J)
DPRK	27-10	0500	12204	Thu	North Korean diplo i.p.	DPRK-ARQ 600 LSB	(AB-J)
DPRK	27-10	0649	16250	Thu	North Korean diplo. QSX 16252 kHz	DPRK-ARQ 600 LSB	(AB)
DPRK	27-10	0649	16252	Thu	North Korean diplo. QSX 16250 kHz	DPRK-ARQ 600 LSB	(AB)
DPRK	27-10	0651	12400	Thu	North Korean diplo	DPRK-ARQ 600 LSB	(AB)

DPRK	27-10	0732	19100	Thu	North Korean diplo	DPRK-ARQ 600 LSB	(AB)
DPRK	27-10	0756	12200	Thu	North Korean diplo	DPRK-ARQ 600 LSB	(AB)
DPRK	27-10	0819	17950	Thu	North Korean diplo	DPRK-ARQ 600 LSB	(AB)
DPRK	27-10	0820	16450	Thu	North Korean diplo	DPRK-ARQ 600 LSB	(AB)
DPRK	27-10	0823	12400	Thu	North Korean diplo	DPRK-ARQ 600 LSB	(AB)
DPRK	27-10	0839	10960	Thu	North Korean diplo	DPRK-ARQ 600 LSB	(AB)
DPRK	27-10	0906	12200	Thu	North Korean diplo. QSX 12205 kHz	DPRK-ARQ 600 LSB	(AB)
DPRK	27-10	0906	12205	Thu	North Korean diplo. QSX 12200 kHz	DPRK-ARQ 600 LSB	(AB)
DPRK	27-10	1316	17320	Thu	North Korean diplo	DPRK-ARQ 600 LSB	(AB)
DPRK	28-10	0810	12400	Fri	North Korean diplo	DPRK-ARQ 600 LSB	(AB)
DPRK	28-10	1303	17320	Fri	North Korean diplo	DPRK-ARQ 600 LSB	(AB)
DPRK	29-10	0755	17450	Sat	North Korean diplo	DPRK-ARQ 600 LSB	(AB)
DPRK	29-10	0807	12400	Sat	North Korean diplo	DPRK-ARQ 600 LSB	(AB)
DPRK	29-10	0930	17315	Sat	North Korean diplo	DPRK-ARQ 600 LSB	(AB)
DPRK	30-10	0704	16252	Sun	North Korean diplo. QSX 17320 kHz	DPRK-ARQ 600 LSB	(AB)
DPRK	30-10	0704	17320	Sun	North Korean diplo. QSX 16252 kHz	DPRK-ARQ 600 LSB	(AB)
DPRK	30-10	0904	17450	Sun	North Korean diplo. QSX 16675 kHz	DPRK-ARQ 600 LSB	(AB)
DPRK	30-10	0908	16675	Sun	North Korean diplo. QSX 17450 kHz	DPRK-ARQ 600 LSB	(AB)
DPRK	31-10	0800	12400	Mon	North Korean diplo	DPRK-ARQ 600 LSB	(AB)
E06	3-10	0210	11513	Mon	537 241 30 39154 77173 01113 ... 79242 00028 40008 241 30 00000	USB	(PY)
E06	3-10	0310	14613	Mon	537 241 30 39154 77173 01113 ... 79242 00028 40008 241 30 00000	USB	(PY)
E06	4-10	0210	11528	Tue	537 241 30 39154 77173 01113 ... 79242 00028 40008 241 30 00000	USB	(PY)
E06	4-10	0310	14613	Tue	537 241 30 39154 77173 01113 ... 79242 00028 40008 241 30 00000	USB	(PY)
E06	6-10	0300	16219	Thu	361 209 47 05740 74958 12274 ... 86559 00468 21957 209 47 00000	USB	(PY/HFD)
E06	6-10	0400	13545	Thu	361 209 47 05740 74958 12274 ... 86559 00468 21957 209 47 00000	USB	(PY/HFD)
E06	6-10	0600	18425	Thu	186 327 50 96406 89146 16171 ... 95440 61656 74781 327 50 00000	USB	(AB-KWT/HFD)
E06	6-10	0700	20230	Thu	186 327 50 96406 89146 16171 ... 95440 61656 74781 327 50 00000	USB	(AB-KWT/HFD)
E06	7-10	0300	16209	Fri	361 209 47 05740 74958 12274 ... 86559 00468 21957 209 47 00000	USB	(PY)
E06	7-10	0400	13545	Fri	361 209 47 05740 74958 12274 ... 86559 00468 21957 209 47 00000	USB	(PY)
E06	7-10	0600	18425	Fri	186 327 50 96406 89146 16171 ... 95440 61656 74781 327 50 00000	USB	(AB-KWT)
E06	7-10	0700	20230	Fri	186 327 50 96406 89146 16171 ... 95440 61656 74781 327 50 00000	USB	(AB-KWT)
E06	10-10	0210	11528	Mon	537 908 31 60572 54904 45934 ... 68167 35424 18781 908 31 00000	USB	(PY/HFD)
E06	10-10	0310	14613	Mon	537 908 31 60572 54904 45934 ... 68167 35424 18781 908 31 00000	USB	(PY/HFD)
E06	11-10	0210	11528	Tue	537 908 31 60572 54904 45934 ... 68167 35424 18781 908 31 00000	USB	(PY)
E06	11-10	0310	14613	Tue	537 908 31 60572 54904 45934 ... 68167 35424 18781 908 31 00000	USB	(PY)
E06	11-10	1000	15643	Tue	527 806 49 08443 88150 74457 ... 93198 34399 79824 806 49 00000	USB	(VSh)
E06	11-10	1300	14721	Tue	527 806 49 08443 88150 74457 ... 93198 34399 79824 806 49 00000	USB	(XAH/kalv/VSh)
E06	11-10	1330	12188	Tue	527 806 49 08443 88150 74457 ... 93198 34399 79824 806 49 00000	USB	(kalv/VSh)
E06	13-10	0300	16219	Thu	361 257 48 87167 90336 41254 ... 08964 16221 74734 257 48 00000	USB	(PY)
E06	13-10	0400	13545	Thu	361 257 48 87167 90336 41254 ... 08964 16221 74734 257 48 00000	USB	(PY)
E06	14-10	0300	16219	Fri	361 257 48 87167 90336 41254 ... 08964 16221 74734 257 48 00000	USB	(PY)
E06	14-10	0400	13545	Fri	361 257 48 87167 90336 41254 ... 08964 16221 74734 257 48 00000	USB	(PY)



E06	17-10	0210	11513	Mon	537 146 32 39514 62342 98830 ... 38755 58819 51359 146 32 00000	USB	(PY)
E06	17-10	0310	14613	Mon	537 146 32 39514 62342 98830 ... 38755 58819 51359 146 32 00000	USB	(PY)
E06	18-10	0210	11528	Tue	537 146 32 39514 62342 98830 ... 38755 58819 51359 146 32 00000	USB	(PY)
E06	18-10	0310	14613	Tue	537 146 32 39514 62342 98830 ... 38755 58819 51359 146 32 00000	USB	(PY)
E06	20-10	0300	16219	Thu	361 508 49 59047 57568 33659 ... 04800 47700 48645 508 49 00000	USB	(PY)
E06	20-10	0400	13545	Thu	361 508 49 59047 57568 33659 ... 04800 47700 48645 508 49 00000	USB	(PY)
E06	20-10	0600	18425	Thu	186 490 52 24851 13789 03889 ... 99555 89432 85992 490 52 00000	USB	(AB)
E06	20-10	0700	20230	Thu	186 490 52 24851 13789 03889 ... 99555 89432 85992 490 52 00000	USB	(AB)
E06	20-10	1000	15643	Thu	527 391 48 91068 18768 19160 ... 88115 09036 44244 391 48 00000	USB	(PY/VSh)
E06	20-10	1030	13343	Thu	527 391 48 91068 18768 19160 ... 88115 09036 44244 391 48 00000	USB	(kalv/VSh)
E06	20-10	1300	14721	Thu	527 391 48 91068 18768 19160 ... 88115 09036 44244 391 48 00000	USB	(PY/VSh)
E06	20-10	1330	12188	Thu	527 391 48 91068 18768 19160 ... 88115 09036 44244 391 48 00000	USB	(kalv/VSh)
E06	21-10	0300	16219	Fri	361 508 49 59047 57568 33659 ... 04800 47700 48645 508 49 00000	USB	(PY)
E06	21-10	0400	13545	Fri	361 508 49 59047 57568 33659 ... 04800 47700 48645 508 49 00000	USB	(PY)
E06	21-10	0600	18425	Fri	186 490 52 24851 13789 03889 ... 99555 89432 85992 490 52 00000	USB	(AB)
E06	21-10	0700	20230	Fri	186 490 52 24851 13789 03889 ... 99555 89432 85992 490 52 00000	USB	(AB)
E06	24-10	0210	11528	Mon	537 982 33 06052 93684 23083 ... 23562 28219 31115 982 33 00000	USB	(PY)
E06	24-10	0310	14613	Mon	537 982 33 06052 93684 23083 ... 23562 28219 31115 982 33 00000	USB	(PY)
E06	25-10	0210	11528	Tue	537 982 33 06052 93684 23083 ... 23562 28219 31115 982 33 00000	USB	(PY)
E06	25-10	0310	14613	Tue	537 982 33 06052 93684 23083 ... 23562 28219 31115 982 33 00000	USB	(PY)
E06	25-10	1000	15643	Tue	527 608 43 07818 87655 97399 ... 03451 84017 98123 608 43 00000	USB	(PY/VSh)
E06	25-10	1030	13343	Tue	527 608 43 07818 87655 97399 ... 03451 84017 98123 608 43 00000	USB	(kalv/VSh)
E06	25-10	1300	14721	Tue	527 608 43 07818 87655 97399 ... 03451 84017 98123 608 43 00000	USB	(PY/VSh)
E06	25-10	1330	12188	Tue	527 608 43 07818 87655 97399 ... 03451 84017 98123 608 43 00000	USB	(PY/VSh)
E06	27-10	0300	16219	Thu	361 792 50 74091 52568 50264 ... 32529 24857 75485 792 50 00000	USB	(PY)
E06	27-10	0400	13545	Thu	361 792 50 74091 52568 50264 ... 32529 24857 75485 792 50 00000	USB	(PY)
E06	28-10	0300	16219	Fri	361 792 50 74091 52568 50264 ... 32529 24857 75485 792 50 00000	USB	(PY)
E06	28-10	0400	13545	Fri	361 792 50 74091 52568 50264 ... 32529 24857 75485 792 50 00000	USB	(PY)
E06	31-10	0210	11513	Mon	537 160 34 73201 07825 51990 ... 37052 00462 09227 160 34 00000	USB	(PY)
E06	31-10	0310	14613	Mon	537 160 34 73201 07825 51990 ... 37052 00462 09227 160 34 00000	USB	(PY)
E06	31-10	1000	15643	Mon	527 931 45 76304 22372 57530 ... 43674 14294 33689 931 45 00000	USB	(PY)
E06	31-10	1300	14721	Mon	527 931 45 76304 22372 57530 ... 43674 14294 33689 931 45 00000	USB	(kalv/VSh)
E06	31-10	1330	12188	Mon	527 931 45 76304 22372 57530 ... 43674 14294 33689 931 45 00000	USB	(kalv/Vsh)
E07	1-10	1300	12176	Sat	152 152 152 000	USB	(AB/XAH/HFD)
E07	1-10	1320	11576	Sat	152 152 152 000	USB	(AB/XAH/HFD)
E07	1-10	1410	15849	Sat	746 746 746 1 780 80 780 80 06982 37610 33926 ... 68978 55661 74878 000 000	USB	(AB/XAH/HFD)
E07	1-10	1430	14849	Sat	746 746 746 1 780 80 780 80 06982 37610 33926 ... 68978 55661 74878 000 000	USB	(AB/XAH/HFD)
E07	1-10	1450	13449	Sat	746 746 746 1 780 80 780 80 06982 37610 33926 ... 68978 55661 74878 000 000	USB	(AB/HFD)
E07	2-10	0600	10317	Sun	312 312 312 000	USB	(HFD)
E07	2-10	0620	11117	Sun	312 312 312 000	USB	(HFD)
E07	4-10	1500	17461	Tue	413 413 413 000	USB	(AB/XAH)
E07	4-10	1520	16161	Tue	413 413 413 000	USB	(AB/XAH)

E07	6-10	1410	15849	Thu	746 746 746 000	USB	(AB)
E07	6-10	1430	14849	Thu	746 746 746 000	USB	(AB)
E07	7-10	1500	17461	Fri	413 413 413 000	USB	(AB)
E07	7-10	1520	16161	Fri	413 413 413 000	USB	(AB)
E07	8-10	1300	12176	Sat	152 152 152 000	USB	(AB/MPJ)
E07	8-10	1320	11576	Sat	152 152 152 000	USB	(AB/MPJ)
E07	8-10	1410	15849	Sat	746 746 746 000	USB	(AB/MPJ)
E07	8-10	1430	14849	Sat	746 746 746 000	USB	(AB/MPJ)
E07	9-10	0600	10317	Sun	312 312 312 000	USB	(AB)
E07	9-10	0620	11117	Sun	312 312 312 000	USB	(AB)
E07	11-10	1500	17461	Tue	413 413 413 1 301 112 301 112 68563 69727 39281 ... 90208 27914 53176 000 000	USB	(AB/HFD)
E07	11-10	1520	16161	Tue	413 413 413 1 301 112 301 112 68563 69727 39281 ... 90208 27914 53176 000 000	USB	(AB/HFD)
E07	11-10	1540	14361	Tue	413 413 413 1 301 112 301 112 68563 69727 39281 ... 90208 27914 53176 000 000	USB	(AB/HFD)
E07	12-10	1050	9142	Wed	123 123 123 1 (R) 3167 1 3167 1 00000 000 000. E06 voice. E06 + E07 ending	USB	(AB/PY/VSh)
E07	12-10	1100	10256	Wed	123 123 123 1 (R) 3167 1 3167 1 00000 000 000. E06 voice. E06 + E07 ending	USB	(AB/PY/VSh)
E07	12-10	1208	10256	Wed	123 123 123 1 (R) 312 15 312 15 62028 04768 70784 ... 66505 22160 66030 000 000. E06 voice	USB	(AB/PY/VSh)
E07	13-10	1055	9283	Thu	E06 voice. No ID in callup 2055 17 2055 17 96401 93217 43182 ... 64860 19200 55950 000 000	AM	(PY/VSh)
E07	13-10	1410	15849	Thu	746 746 746 1 3362 65 3362 65 60657 08376 98148 ... 36846 83243 39877 000 000	USB	(AB/XAH/MPJ)
E07	13-10	1430	14849	Thu	746 746 746 1 3362 65 3362 65 60657 08376 98148 ... 36846 83243 39877 000 000	USB	(AB/XAH/MPJ)
E07	13-10	1450	13449	Thu	746 746 746 1 3362 65 3362 65 60657 08376 98148 ... 36846 83243 39877 000 000	USB	(AB/XAH/MPJ)
E07	14-10	1500	17461	Fri	413 413 413 1 301 112 301 112 68563 69727 39281 ... 90208 27914 53176 000 000	USB	(AB/XAH)
E07	14-10	1520	16161	Fri	413 413 413 1 301 112 301 112 68563 69727 39281 ... 90208 27914 53176 000 000	USB	(AB/XAH)
E07	14-10	1540	14361	Fri	413 413 413 1 301 112 301 112 68563 69727 39281 ... 90208 27914 53176 000 000	USB	(AB/XAH)
E07	15-10	1300	12176	Sat	152 152 152 000	USB	(AB/XAH)
E07	15-10	1320	11576	Sat	152 152 152 000	USB	(AB/XAH)
E07	15-10	1410	15849	Sat	746 746 746 1 3362 65 3362 65 60657 08376 98148 ... 36846 83243 39877 000 000	USB	(AB/XAH)
E07	15-10	1430	14849	Sat	746 746 746 1 3362 65 3362 65 60657 08376 98148 ... 36846 83243 39877 000 000	USB	(AB/XAH)
E07	15-10	1450	13449	Sat	746 746 746 1 3362 65 3362 65 60657 08376 98148 ... 36846 83243 39877 000 000	USB	(AB/XAH)
E07	16-10	0600	10317	Sun	312 312 312 000	USB	(AB)
E07	16-10	0620	11117	Sun	312 312 312 000	USB	(AB)
E07	18-10	1500	17461	Tue	413 413 413 000	USB	(AB/XAH)
E07	18-10	1520	16161	Tue	413 413 413 000	USB	(AB)
E07	20-10	1410	15849	Thu	746 746 746 000	USB	(AB/MPJ)
E07	20-10	1430	14849	Thu	746 746 746 000	USB	(AB/MPJ)
E07	21-10	1500	17461	Fri	413 413 413 000	USB	(AB)
E07	21-10	1520	16161	Fri	413 413 413 000	USB	(AB)
E07	22-10	1300	12176	Sat	152 152 152 000	USB	(AB/MPJ)
E07	22-10	1320	11576	Sat	152 152 152 000	USB	(AB/MPJ)
E07	22-10	1410	15849	Sat	746 746 746 000	USB	(AB/MPJ/XAH)
E07	22-10	1430	14849	Sat	746 746 746 000	USB	(AB/MPJ)
E07	23-10	0600	10317	Sun	312 312 312 000	USB	(AB)
E07	23-10	0620	11117	Sun	312 312 312 000	USB	(AB)



E07	25-10	1500	17461	Tue	413 413 413 1 7240 94 7240 94 94195 17412 52210 ... 02054 39329 84354 000 000	USB	(AB)
E07	25-10	1520	16161	Tue	413 413 413 1 7240 94 7240 94 94195 17412 52210 ... 02054 39329 84354 000 000	USB	(AB)
E07	25-10	1540	14361	Tue	413 413 413 1 7240 94 7240 94 94195 17412 52210 ... 02054 39329 84354 000 000	USB	(AB)
E07	27-10	1410	15849	Thu	746 746 746 1 976 58 976 58 65737 38451 24870 ... 22620 43700 44636 000 000	USB	(AB)
E07	27-10	1430	14849	Thu	746 746 746 1 976 58 976 58 65737 38451 24870 ... 22620 43700 44636 000 000	USB	(AB)
E07	27-10	1450	13449	Thu	746 746 746 1 976 58 976 58 65737 38451 24870 ... 22620 43700 44636 000 000	USB	(AB)
E07	28-10	1006	9142	Fri	1000Hz test tone then E07: 123 123 normal pace	USB	(PY)
E07	28-10	1010	9142	Fri	1000Hz tone then E07 123 1 (R1m30s) 5909 1 00000 000 000 wrong pacing and spacing	USB	(PY)
E07	28-10	1500	17461	Fri	413 413 413 1 7240 94 7240 94 94195 17412 52210 ... 02054 39329 84354 000 000	USB	(AB)
E07	28-10	1520	16161	Fri	413 413 413 1 7240 94 7240 94 94195 17412 52210 ... 02054 39329 84354 000 000	USB	(AB)
E07	28-10	1540	14361	Fri	413 413 413 1 7240 94 7240 94 94195 17412 52210 ... 02054 39329 84354 000 000	USB	(AB)
E07	29-10	1300	12176	Sat	152 152 152 000	USB	(AB/MPJ)
E07	29-10	1320	11576	Sat	152 152 152 000	USB	(AB/MPJ)
E07	29-10	1410	15849	Sat	746 746 746 1 976 58 976 58 65737 38451 24870 ... 22620 43700 44636 000 000	USB	(AB/MPJ)
E07	29-10	1430	14849	Sat	746 746 746 1 976 58 976 58 65737 38451 24870 ... 22620 43700 44636 000 000	USB	(AB/MPJ)
E07	29-10	1450	13449	Sat	746 746 746 1 976 58 976 58 65737 38451 24870 ... 22620 43700 44636 000 000	USB	(AB/MPJ)
E07	30-10	0600	10317	Sun	312 312 312 000	USB	(AB)
E07	30-10	0620	11117	Sun	312 312 312 000	USB	(AB)
E11	1-10	0700	9079	Sat	490/00	USB	(AB)
E11	1-10	1430	14972	Sat	910/00	USB	(AB/XAH)
E11	1-10	1530	4505	Sat	368/00	USB	(AB)
E11	1-10	1910	4181	Sat	390/00	USB	(AB)
E11	2-10	0700	9079	Sun	490/00	USB	(AB)
E11	2-10	1530	4505	Sun	365/00	USB	(AB/XAH)
E11	2-10	1605	5176	Sun	238/00	USB	(AB/MPJ/XAH)
E11	2-10	1745	13470	Sun	240/00	USB	(AB/MPJ/XAH)
E11	2-10	1815	11116	Sun	921/00	USB	(AB/MPJ/XAH)
E11	2-10	1910	8530	Sun	610/00	USB	(AB/XAH)
E11	2-10	2000	5737	Sun	524/00	USB	(AB)
E11	3-10	0450	5371	Mon	416/00	USB	(AB)
E11	3-10	0640	14865	Mon	942/00	USB	(AB)
E11	3-10	0715	15632	Mon	752/00	USB	(AB)
E11	3-10	0745	10213	Mon	260/00	USB	(AB)
E11	3-10	0830	15905	Mon	183/00	USB	(AB-POL/XAH)
E11	3-10	0845	12202	Mon	710/00	USB	(AB/XAH)
E11a	3-10	0900	9968	Mon	538/00	USB	(AB/XAH)
E11	3-10	1045	7317	Mon	696/00	USB	(AB)
E11	3-10	1300	5371	Mon	313/00	USB	(AB)
E11	3-10	1745	13470	Mon	249/00	USB	(AB/XAH)
E11a	3-10	1900	7317	Mon	648/34 Attention 92354 36805 96344 ... 27852 13833 58884 Attention (message repeated) Out	USB	(AB/XAH)
E11	4-10	0645	8423	Tue	515/00	USB	(AB)
E11	4-10	0700	8180	Tue	579/00	USB	(AB)

<b>E11a</b>	4-10	0715	9963	Tue	639/36 Attention 64657 89117 42991 ... 09390 48748 40632 Attention (message repeated) Out	USB	(AB)
<b>E11</b>	4-10	0745	14865	Tue	225/00	USB	(AB)
<b>E11a</b>	4-10	0820	19184	Tue	130/33 Attention 79606 41053 28462 ... 41465 67632 81942 Attention (message repeated) Out	USB	(AB-POL)
<b>E11</b>	4-10	0845	13908	Tue	156/00	USB	(AB)
<b>E11</b>	4-10	1000	9951	Tue	305/00	USB	(AB)
<b>E11</b>	4-10	1205	6923	Tue	469/00	USB	(AB/MPJ)
<b>E11</b>	4-10	1230	12530	Tue	335/00	USB	(AB/MPJ)
<b>E11</b>	4-10	1430	14972	Tue	917/00	USB	(AB-POL/MPJ)
<b>E11</b>	4-10	1605	5176	Tue	231/00	USB	(AB/XAH)
<b>E11</b>	5-10	0640	14865	Wed	949/00	USB	(AB)
<b>E11</b>	5-10	0715	15632	Wed	754/00	USB	(AB)
<b>E11</b>	5-10	0745	17410	Wed	342/00	USB	(AB)
<b>E11a</b>	5-10	0820	19184	Wed	130/33 Attention 79606 41053 28462 ... 41465 67632 81942 Attention (message repeated) Out	USB	(AB-POL)
<b>E11</b>	5-10	0845	12202	Wed	719/00	USB	(XAH)
<b>E11</b>	5-10	0900	9968	Wed	533/00	USB	(AB)
<b>E11</b>	5-10	0930	6940	Wed	278/00	USB	(AB)
<b>E11</b>	5-10	1045	7317	Wed	692/00	USB	(AB)
<b>E11</b>	5-10	1205	6923	Wed	463/00	USB	(AB)
<b>E11a</b>	5-10	1715	6923	Wed	978/35 Attention 48725 52446 57670 ... 94002 49199 65531 Attention (message repeated) Out	USB	(AB/XAH)
<b>E11a</b>	5-10	1900	4181	Wed	121/31 Attention 01056 38450 15055 ... 10468 50105 44808 Attention (message repeated) Out	USB	(AB/XAH/VSh)
<b>E11a</b>	5-10	1910	4181	Wed	392/39 Attention 65991 68834 33666 ... 41613 72734 15083 Attention (message repeated) Out	USB	(AB/XAH)
<b>E11</b>	6-10	0645	8423	Thu	515/00	USB	(AB)
<b>E11</b>	6-10	0745	14865	Thu	220/00	USB	(AB)
<b>E11a</b>	6-10	0820	5941	Thu	430/37 Attention 08826 83839 00997 ... 02275 45868 71242 Attention (message repeated) Out	USB	(AB)
<b>E11</b>	6-10	0845	13908	Thu	151/00	USB	(AB)
<b>E11</b>	6-10	0930	6940	Thu	270/00	USB	(AB)
<b>E11</b>	6-10	1230	12530	Thu	332/00	USB	(AB/MPJ)
<b>E11</b>	6-10	1300	5371	Thu	310/00	USB	(AB/MPJ)
<b>E11</b>	6-10	1530	10330	Thu	261/00	USB	(AB/MPJ)
<b>E11</b>	6-10	1730	7864	Thu	410/00	USB	(AB)
<b>E11a</b>	6-10	1900	7317	Thu	648/34 Attention 92354 36805 96344 ... 27852 13833 58884 Attention (message repeated) Out	USB	(AB)
<b>E11</b>	6-10	2000	5737	Thu	524/00	USB	(AB)
<b>E11a</b>	6-10	2030	4356	Thu	121/30 Attention 89708 76975 68564 ... 44878 75687 64756 Attention (message repeated) Out	USB	(Toprus/VSh)
<b>E11a</b>	7-10	0600	8680	Fri	359/35 Attention 25762 80121 18678 ... 16151 27528 84493 Attention (message repeated) Out	USB	(AB)
<b>E11</b>	7-10	0700	8180	Fri	571/00	USB	(AB)
<b>E11a</b>	7-10	0715	9963	Fri	639/36 Attention 64657 89117 42991 ... 09390 48748 40632 Attention (message repeated) Out	USB	(AB)
<b>E11</b>	7-10	0745	17410	Fri	343/00	USB	(AB)
<b>E11a</b>	7-10	0820	5941	Fri	430/37 Attention 08826 83839 00997 ... 02275 45868 71242 Attention (message repeated) Out	USB	(AB)
<b>E11</b>	7-10	0830	15905	Fri	184/00	USB	(AB)
<b>E11</b>	7-10	1000	9951	Fri	309/00	USB	(AB)
<b>E11a</b>	7-10	1715	6923	Fri	978/35 Attention 48725 52446 57670 ... 94002 49199 65531 Attention (message repeated) Out	USB	(AB)
<b>E11</b>	7-10	1815	11116	Fri	926/00	USB	(AB)

E11	7-10	1910	8530	Fri	613/00	USB	(AB)
E11	8-10	0700	9079	Sat	496/00	USB	(AB)
E11	8-10	1430	14972	Sat	919/00	USB	(AB)
E11	8-10	1530	4505	Sat	369/00	USB	(AB)
E11a	8-10	1910	4181	Sat	392/39 Attention 65991 68834 33666 ... 41613 72734 15083 Attention (message repeated) Out	USB	(AB)
E11a	9-10	0600	8680	Sun	359/35 Attention 25762 80121 18678 ... 16151 27528 84493 Attention (message repeated) Out	USB	(AB)
E11	9-10	0700	9079	Sun	498/00	USB	(AB)
E11	9-10	1530	4505	Sun	369/00	USB	(AB/MPJ)
E11	9-10	1605	5176	Sun	238/00	USB	(AB/MPJ)
E11	9-10	1745	13470	Sun	248/00	USB	(AB/MPJ)
E11	9-10	1815	11116	Sun	925/00	USB	(AB/MPJ)
E11	9-10	1910	8530	Sun	618/00	USB	(AB)
E11	9-10	2000	5737	Sun	525/00	USB	(AB)
E11a	10-10	0450	5371	Mon	415/31 Attention 57684 34416 15699 ... 97986 47261 06982 Attention (message repeated) Out	USB	(AB)
E11	10-10	0640	14865	Mon	946/00	USB	(AB)
E11	10-10	0715	15632	Mon	753/00	USB	(AB)
E11	10-10	0745	10213	Mon	264/00	USB	(AB)
E11a	10-10	0830	15905	Mon	184/30 Attention 72280 48261 02986 ... 48062 07764 04423 Attention (message repeated) Out	USB	(AB-POL)
E11	10-10	0845	12202	Mon	715/00	USB	(AB)
E11	10-10	0900	9968	Mon	532/00	USB	(AB)
E11	10-10	1045	7317	Mon	694/00	USB	(AB/MPJ)
E11a	10-10	1300	5371	Mon	314/37 Attention 00936 78436 21461 ... 24958 14355 52241 Attention (message repeated) Out	USB	(AB/XAH/MPJ-HNG)
E11	10-10	1745	13470	Mon	246/00	USB	(AB/XAH)
E11	10-10	1900	7317	Mon	649/00	USB	(AB)
E11	11-10	0645	8423	Tue	512/00	USB	(AB)
E11	11-10	0700	8180	Tue	576/00	USB	(AB)
E11	11-10	0715	9963	Tue	635/00	USB	(AB)
E11	11-10	0745	14865	Tue	227/00	USB	(AB)
E11	11-10	0820	19184	Tue	Unreadable. Raped by radar	USB	(AB-POL)
E11a	11-10	0845	13908	Tue	150/31 Attention 08211 66000 39976 ... 18556 92879 87882 (8782) Attention (message repeated) Out	USB	(AB)
E11a	11-10	1000	9951	Tue	304/22 Attention 20613 23898 27261 ... 75708 69322 17936 Attention (message repeated) Out	USB	(AB/MPJ)
E11	11-10	1205	6923	Tue	460/00	USB	(AB)
E11a	11-10	1230	12530	Tue	337/35 Attention 98639 98430 61274 ... 87563 93981 05943 Attention (message repeated) Out	USB	(AB/XAH)
E11	11-10	1430	14972	Tue	914/00	USB	(AB-POL)
E11	11-10	1605	5176	Tue	232/00	USB	(AB/XAH/MPJ)
E11	12-10	0315	11092	Wed	258/00	USB	(AB-POL)
E11	12-10	0640	14865	Wed	940/00	USB	(AB)
E11	12-10	0715	15632	Wed	751/00	USB	(AB)
E11	12-10	0745	17410	Wed	347/00	USB	(AB)
E11	12-10	0820	19184	Wed	135/00	USB	(AB-POL)

E11	12-10	0845	12202	Wed	713/00	USB	(AB)
E11	12-10	0900	9968	Wed	535/00	USB	(AB)
E11	12-10	0930	6940	Wed	276/00	USB	(AB/XAH)
E11	12-10	1045	7317	Wed	692/00	USB	(AB/XAH)
E11	12-10	1205	6923	Wed	461/00	USB	(AB)
E11	12-10	1715	6923	Wed	975/00	USB	(AB/MPJ)
E11	12-10	1910	4181	Wed	393/00	USB	(AB/XAH)
E11	13-10	0315	11092	Thu	250/00	USB	(AB-POL)
E11	13-10	0645	8423	Thu	518/00	USB	(AB)
E11	13-10	0745	14865	Thu	221/00	USB	(AB)
E11	13-10	0820	5941	Thu	435/00	USB	(AB)
E11a	13-10	0845	13908	Thu	150/31 Attention 08211 66000 39976 ... 18556 92879 87882 Attention (message repeated) Out	USB	(AB)
E11	13-10	0930	6940	Thu	271/00	USB	(AB/XAH)
E11a	13-10	1230	12530	Thu	337/35 Attention 98639 98430 61274 ... 87563 93981 05943 Attention (message repeated) Out	USB	(AB/MPJ)
E11a	13-10	1300	5371	Thu	314/37 Attention 00936 78436 21461 ... 24958 14355 52241 Attention (message repeated) Out	USB	(AB/XAH/MPJ)
E11	13-10	1530	10330	Thu	260/00	USB	(AB/XAH)
E11a	13-10	1730	7864	Thu	415/31 Attention 57684 34416 15699 ... 97986 47261 06982 Attention (message repeated) Out	USB	(AB/XAH/MPJ)
E11	13-10	1900	7317	Thu	646/00	USB	(AB)
E11	13-10	2000	5737	Thu	521/00	USB	(AB)
E11	14-10	0600	8680	Fri	350/00	USB	(AB)
E11	14-10	0700	8180	Fri	575/00	USB	(AB/XAH)
E11	14-10	0715	9963	Fri	633/00	USB	(AB/XAH)
E11	14-10	0745	17410	Fri	347/00	USB	(AB/XAH)
E11	14-10	0820	5941	Fri	430/00	USB	(AB/XAH)
E11a	14-10	0830	15905	Fri	184/30 Attention 72280 48261 02986 ... 48062 07764 04423 Attention (message repeated) Out	USB	(AB/XAH)
E11a	14-10	1000	9951	Fri	304/22 Attention 20613 23898 27261 ... 75708 69322 17936 Attention (message repeated) Out	USB	(AB/XAH)
E11	14-10	1715	6923	Fri	976/00	USB	(AB/XAH/MPJ)
E11	14-10	1815	11116	Fri	929/00	USB	(AB/MPJ)
E11a	14-10	1910	8530	Fri	611/40 Attention 96918 32479 21263 ... 36357 32728 24506 Attention (message repeated) Out	USB	(AB)
E11	15-10	0700	9079	Sat	498/00	USB	(AB)
E11	15-10	1430	14972	Sat	912/00	USB	(AB/XAH)
E11	15-10	1530	4505	Sat	363/00	USB	(AB-POL/XAH)
E11	15-10	1910	4181	Sat	396/00	USB	(AB/XAH)
E11	16-10	0600	8680	Sun	358/00	USB	(AB)
E11	16-10	0600	8680	Sun	358/00	USB	(HFD)
E11	16-10	0700	9079	Sun	497/00	USB	(AB)
E11	16-10	1530	4505	Sun	365/00	USB	(AB/XAH/MPJ)
E11	16-10	1605	5176	Sun	233/00	USB	(AB/XAH/MPJ)
E11	16-10	1745	13470	Sun	240/00	USB	(AB/MPJ)
E11	16-10	1815	11116	Sun	925/00	USB	(AB/MPJ)
E11a	16-10	1910	8530	Sun	611/40 Attention 96918 32479 21263 ... 36357 32728 24506 Attention (message repeated) Out	USB	(AB)
E11	16-10	2000	5737	Sun	522/00	USB	(AB)

<b>E11</b>	17-10	0450	5371	Mon	411/00	USB	(AB/HFD)
<b>E11a</b>	17-10	0640	14865	Mon	942/36 Attention 34141 02094 53295 ... 01905 57389 19110 Attention (message repeated) Out	USB	(AB)
<b>E11a</b>	17-10	0715	15632	Mon	755/33 Attention 11473 48822 02024 ... 21761 23131 95003 Attention (message repeated) Out	USB	(AB)
<b>E11a</b>	17-10	0745	10213	Mon	261/39 Attention 11050 25941 13831 ... 57308 84803 80390 Attention (message repeated) Out	USB	(AB/HFD)
<b>E11</b>	17-10	0830	15905	Mon	184/00	USB	(AB)
<b>E11a</b>	17-10	0845	12202	Mon	719/34 Attention 58576 69607 77099 ... 03268 01928 14188 Attention (message repeated) Out	USB	(AB/HFD)
<b>E11a</b>	17-10	0900	9968	Mon	537/34 Attention 58755 95098 43544 ... 68023 77353 26331 Attention (message repeated) Out	USB	(AB/XAH)
<b>E11</b>	17-10	1045	10200	Mon	691/00	USB	(PY)
<b>E11</b>	17-10	1300	5371	Mon	316/00	USB	(AB/XAH)
<b>E11</b>	17-10	1745	13470	Mon	246/00	USB	(AB)
<b>E11</b>	17-10	1900	7317	Mon	646/00	USB	(AB)
<b>E11</b>	18-10	0645	8423	Tue	518/00	USB	(AB)
<b>E11</b>	18-10	0700	8180	Tue	575/00	USB	(AB)
<b>E11</b>	18-10	0715	9963	Tue	639/00	USB	(AB)
<b>E11</b>	18-10	0745	14865	Tue	225/00	USB	(AB-POL)
<b>E11</b>	18-10	0820	19184	Tue	133/00	USB	(AB-POL)
<b>E11</b>	18-10	0845	13908	Tue	150/00	USB	(AB)
<b>E11</b>	18-10	1000	9951	Tue	302/00	USB	(AB/MPJ)
<b>E11</b>	18-10	1205	6923	Tue	461/00	USB	(AB/MPJ)
<b>E11</b>	18-10	1230	12530	Tue	332/00	USB	(AB/MPJ)
<b>E11</b>	18-10	1430	14972	Tue	914/00	USB	(AB/MPJ/XAH)
<b>E11a</b>	18-10	1605	5176	Tue	230/40 Attention 57803 84903 67905 ... 19886 16004 02937 Attention (message repeated) Out	USB	(AB/XAH)
<b>E11a</b>	19-10	0315	11092	Wed	259/38 Attention (too weak to copy)	USB	(AB-POL)
<b>E11a</b>	19-10	0640	14865	Wed	942/36 Attention 34141 02094 53295 ... 01905 57389 19110 Attention (message repeated) Out	USB	(AB-POL)
<b>E11a</b>	19-10	0715	15632	Wed	755/33 Attention 11473 48822 02024 ... 21761 23131 95003 Attention (message repeated) Out	USB	(AB)
<b>E11</b>	19-10	0745	17410	Wed	342/00	USB	(AB)
<b>E11</b>	19-10	0820	19184	Wed	138/00	USB	(AB-POL)
<b>E11a</b>	19-10	0845	12202	Wed	719/34 Attention 58576 69607 77099 ... 03268 01928 14188 Attention (message repeated) Out	USB	(AB)
<b>E11a</b>	19-10	0900	9968	Wed	537/34 Attention 58755 95098 43544 ... 68023 77353 26331 Attention (message repeated) Out	USB	(AB)
<b>E11</b>	19-10	0930	6940	Wed	277/00	USB	(AB)
<b>E11</b>	19-10	1045	10200	Wed	691/00	USB	(AB)
<b>E11</b>	19-10	1205	6923	Wed	460/00	USB	(AB)
<b>E11</b>	19-10	1715	6923	Wed	974/00	USB	(AB/MPJ)
<b>E11</b>	19-10	1910	4181	Wed	396/00	USB	(AB)
<b>E11</b>	20-10	0645	8423	Thu	517/00	USB	(AB)
<b>E11</b>	20-10	0745	14865	Thu	227/00	USB	(AB)
<b>E11</b>	20-10	0820	5941	Thu	432/00	USB	(AB)
<b>E11</b>	20-10	0845	13908	Thu	150/00	USB	(AB)
<b>E11</b>	20-10	0930	6940	Thu	271/00	USB	(AB-POL)
<b>E11</b>	20-10	1230	12530	Thu	335/00	USB	(AB)
<b>E11</b>	20-10	1300	5371	Thu	312/00	USB	(AB/MPJ)
<b>E11a</b>	20-10	1530	10330	Thu	261/39 Attention 11050 25941 13831 ... 57308 84803 80390 Attention (message repeated) Out	USB	(AB)

E11	20-10	1730	7864	Thu	414/00	USB	(AB)
E11	20-10	1900	7317	Thu	640/00	USB	(AB)
E11	20-10	2000	5737	Thu	522/00	USB	(AB)
E11	21-10	0600	8680	Fri	355/00	USB	(AB)
E11	21-10	0700	8180	Fri	570/00	USB	(AB)
E11	21-10	0715	9963	Fri	633/00	USB	(AB)
E11	21-10	0745	17410	Fri	347/00	USB	(AB)
E11	21-10	0820	5941	Fri	438/00	USB	(AB)
E11	21-10	0830	15905	Fri	181/00	USB	(AB)
E11	21-10	1000	9951	Fri	309/00	USB	(AB/MPJ)
E11	21-10	1715	6923	Fri	972/00	USB	(AB/MPJ)
E11	21-10	1815	11116	Fri	927/00	USB	(AB/MPJ)
E11	21-10	1910	8530	Fri	610/00	USB	(AB)
E11	22-10	0700	9079	Sat	491/00	USB	(AB)
E11	22-10	1430	14972	Sat	917/00	USB	(AB/MPJ/XAH)
E11	22-10	1530	4505	Sat	363/00	USB	(AB-POL)
E11	22-10	1910	4181	Sat	395/00	USB	(AB)
E11	23-10	0600	8680	Sun	350/00	USB	(AB)
E11	23-10	0700	9079	Sun	497/00	USB	(AB)
E11	23-10	1530	4505	Sun	363/00	USB	(AB)
E11a	23-10	1605	5176	Sun	230/40 Attention 57803 84903 67905 ... 19886 16004 02937 Attention (message repeated) Out	USB	(AB/MPJ-POL)
E11	23-10	1745	13470	Sun	249/00	USB	(AB/MPJ)
E11	23-10	1815	11116	Sun	924/00	USB	(AB/MPJ)
E11	23-10	1910	8530	Sun	613/00	USB	(AB)
E11	23-10	2000	5737	Sun	521/00	USB	(AB)
E11	24-10	0450	5371	Mon	416/00	USB	(AB)
E11	24-10	0640	14865	Mon	942/00	USB	(AB)
E11	24-10	0715	15632	Mon	757/00	USB	(AB-POL)
E11	24-10	0745	10213	Mon	266/00	USB	(AB)
E11	24-10	0830	15905	Mon	189/00	USB	(AB)
E11	24-10	0845	12202	Mon	716/00	USB	(AB)
E11	24-10	0900	9968	Mon	534/00	USB	(AB-POL)
E11a	24-10	1045	10200	Mon	696/21 Attention 95016 06198 69126 ... 38016 32428 61052 Attention (message repeated) Out	USB	(AB/MPJ)
E11	24-10	1300	5371	Mon	319/00	USB	(AB/MPJ)
E11a	24-10	1745	13470	Mon	240/32 Attention 91275 86715 78517 ... 86293 05216 78332 Attention (message repeated) Out	USB	(AB)
E11	24-10	1900	7317	Mon	640/00	USB	(AB)
E11a	25-10	0645	8423	Tue	512/38 Attention 01718 17164 03749 ... 85965 83609 97060 Attention (message repeated) Out	USB	(AB)
E11a	25-10	0700	8180	Tue	573/37 Attention 46486 13845 87096 ... 59961 42167 91624 Attention (message repeated) Out	USB	(AB)
E11	25-10	0715	9963	Tue	630/00	USB	(AB)
E11a	25-10	0745	14865	Tue	223/31 Attention 42372 16899 63754 ... 34887 73207 19819 Attention (message repeated) Out	USB	(AB-POL)
E11	25-10	0820	19184	Tue	131/00	USB	(AB-POL)
E11	25-10	0845	13908	Tue	150/00	USB	(AB)

E11	25-10	1000	9951	Tue	309/00	USB	(AB)
E11a	25-10	1205	6923	Tue	460/32 Attention 08397 95426 27753 ... 35471 47678 21211 Attention (message repeated) Out	USB	(AB)
E11	25-10	1230	12530	Tue	335/00	USB	(AB)
E11a	25-10	1430	14972	Tue	915/40 Attention 77571 06814 97057 ... 35023 48122 95124 Attention (message repeated) Out	USB	(AB/MPJ)
E11	25-10	1605	5176	Tue	235/00	USB	(AB/MPJ)
E11	26-10	0640	14865	Wed	946/00	USB	(AB-POL)
E11	26-10	0715	15632	Wed	754/00	USB	(AB)
E11a	26-10	0745	17410	Wed	346/34 Attention 98914 94836 19203 ... 71740 50389 48459 Attention (message repeated) Out	USB	(AB-POL)
E11	26-10	0820	19184	Wed	136/00	USB	(AB-POL)
E11	26-10	0845	12202	Wed	718/00	USB	(AB)
E11	26-10	0900	9968	Wed	535/00	USB	(AB)
E11a	26-10	0930	6940	Wed	275/33 Attention 77814 58599 28908 ... 06860 13500 38114 Attention (message repeated) Out	USB	(AB)
E11a	26-10	1045	10200	Wed	696/21 Attention 95016 06198 69126 ... 38016 32428 61052 Attention (message repeated) Out	USB	(AB)
E11a	26-10	1205	6923	Wed	460/32 Attention 08397 95426 27753 ... 35471 47678 21211 Attention (message repeated) Out	USB	(AB)
E11	26-10	1715	6923	Wed	978/00	USB	(AB)
E11	26-10	1910	4181	Wed	396/00	USB	(AB)
E11a	27-10	0645	8423	Thu	512/38 Attention 01718 17164 03749 ... 85965 83609 97060 Attention (message repeated) Out	USB	(AB)
E11a	27-10	0745	14865	Thu	223/31 Attention 42372 16899 63754 ... 34887 73207 19819 Attention (message repeated) Out	USB	(AB)
E11	27-10	0820	5941	Thu	432/00	USB	(AB)
E11	27-10	0845	13908	Thu	159/00	USB	(AB)
E11a	27-10	0930	6940	Thu	275/33 Attention 77814 58599 28908 ... 06860 13500 38114 Attention (message repeated) Out	USB	(AB)
E11	27-10	1230	12530	Thu	331/00	USB	(AB)
E11	27-10	1300	5371	Thu	316/00	USB	(AB)
E11	27-10	1530	10330	Thu	264/00	USB	(AB)
E11	27-10	1730	7864	Thu	414/00	USB	(AB)
E11	27-10	1900	7317	Thu	646/00	USB	(AB)
E11a	27-10	2000	5737	Thu	535/38 Attention 62951 72235 77382 ... 95797 62233 56994 Attention (message repeated) Out	USB	(AB)
E11	28-10	0600	8680	Fri	355/00	USB	(AB)
E11a	28-10	0700	8180	Fri	573/37 Attention 46486 13845 87096 ... 59961 42167 91624 Attention (message repeated) Out	USB	(AB)
E11	28-10	0715	9963	Fri	630/00	USB	(AB)
E11a	28-10	0745	17410	Fri	346/34 Attention 98914 94836 19203 ... 71740 50389 48459 Attention (message repeated) Out	USB	(AB)
E11	28-10	0820	5941	Fri	438/00	USB	(AB)
E11	28-10	0830	15905	Fri	189/00	USB	(AB)
E11	28-10	1000	9951	Fri	305/00	USB	(AB-POL)
E11	28-10	1715	6923	Fri	978/00	USB	(AB/MPJ)
E11a	28-10	1815	11116	Fri	929/36 Attention 90912 00682 35606 ... 63971 49635 02795 Attention (message repeated) Out	USB	(AB/MPJ)
E11	28-10	1910	8530	Fri	612/00	USB	(AB)
E11a	29-10	0700	9079	Sat	496/38 Attention 59022 95595 99940 ... 28392 13268 49523 Attention (message repeated) Out	USB	(AB-POL)
E11a	29-10	1430	14972	Sat	915/40 Attention 77571 06814 97057 ... 35023 48122 95124 Attention (message repeated) Out	USB	(AB/MPJ)
E11a	29-10	1530	4505	Sat	366/33 Attention 19718 84182 37505 ... 95170 75128 97696 Attention (message repeated) Out	USB	(AB-POL)
E11	29-10	1910	4181	Sat	390/00	USB	(AB)
E11	30-10	0600	8680	Sun	355/00	USB	(AB)



E11a	30-10	0700	9079	Sun	496/38 Attention 59022 95595 99940 ... 28392 13268 49523 Attention (message repeated) Out	USB	(AB)
E11a	30-10	1530	4505	Sun	366/33 Attention 19718 84182 37505 ... 95170 75128 97696 Attention (message repeated) Out	USB	(AB)
E11	30-10	1605	5176	Sun	236/00	USB	(AB/MPJ)
E11a	30-10	1745	13470	Sun	240/32 Attention 91275 86715 78517 ... 86293 05216 78332 Attention (message repeated) Out	USB	(AB)
E11a	30-10	1815	11116	Sun	929/36 Attention 90912 00682 35606 ... 63971 49635 02795 Attention (message repeated) Out	USB	(AB)
E11	30-10	1910	8530	Sun	612/00	USB	(AB)
E11a	30-10	2000	5737	Sun	525/38 Attention 62951 72235 77382 ... 95797 62233 56994 Attention (message repeated) Out	USB	(AB)
E11	31-10	0450	5371	Mon	410/00	USB	(AB)
E11	31-10	0640	14865	Mon	945/00	USB	(AB)
E11	31-10	0715	15632	Mon	752/00	USB	(AB-POL)
E11	31-10	0745	10213	Mon	268/00	USB	(AB)
E11	31-10	0830	15905	Mon	180/00	USB	(AB)
E11	31-10	0845	12202	Mon	718/00	USB	(AB)
E11	31-10	0900	9968	Mon	532/00	USB	(AB)
E11	31-10	1045	10200	Mon	691/00	USB	(AB)
E11	31-10	1300	5371	Mon	319/00	USB	(AB)
E11	31-10	1745	13470	Mon	249/00	USB	(AB-POL)
E11	31-10	1900	7317	Mon	646/00	USB	(AB)
EGY	7-10	1050	26180	Fri	Egyptian diplo	CODAN-3012	(AB)
EGY	9-10	1748	11116.7	Sun	Egyptian diplo i.p. SUNDAY, OCTOBER 09022 NUMBER OF GROUPS: 231 URGENT followed by 5-character groups	SITOR-A 100/170	(AB)
EGY	11-10	0858	6955	Tue	Egyptian diplo	CODAN-3012	(AB)
EGY	21-10	1040	18315	Fri	99901: MFA Cairo msg to 44405: Egyptian embassy Islamabad	CODAN 3012	(AB)
EGY	26-10	0459	12215	Wed	Egyptian diplo i.p.	CODAN-3012	(AB)
EGY	28-10	1445	17411.7	Fri	MFA Cairo clg TVXC: Egyptian embassy Abidjan	SITOR-A 100/170	(AB)
EGY	28-10	1450	17410	Fri	99901: MFA Cairo msg to 00016: Egyptian embassy Abidjan	CODAN-3012	(AB)
EGY	29-10	0755	17445.7	Sat	MFA Cairo wkg unid embassy	SITOR-A 100-170	(AB)
EGY	29-10	0905	17416.7	Sat	MFA Cairo wkg unid embassy	SITOR-A 100-170	(AB)
EGY	29-10	0915	17421.7	Sat	MFA Cairo clg XBVM: Egyptian embassy Berlin	SITOR-A 100-170	(AB)
EGY	29-10	1005	16781.7	Sat	MFA Cairo wkg unid embassy	SITOR-A 100-170	(AB)
F01	3-10	1015	11129	Mon	Russian diplo/intel. 37076 26843 30004 ... 61104 43284 90429 00000 +++++	FSK 200/500	(AB-RUS)
F01	3-10	1025	9082	Mon	Russian diplo/intel. 37076 26843 30004 ... 61104 43284 90429 00000 +++++	FSK 200/500	(AB-RUS)
F01	3-10	1035	7344	Mon	Russian diplo/intel. 37076 26843 30004 ... 61104 43284 90429 00000 +++++	FSK 200/500	(AB-RUS)
F01	4-10	1015	11129	Tue	Russian diplo/intel. Two messages	FSK 200/500	(AB)
F01	4-10	1025	9082	Tue	Russian diplo/intel. Two messages	FSK 200/500	(AB-RUS)
F01	4-10	1035	7344	Tue	Russian diplo/intel. Two messages	FSK 200/500	(AB-RUS)
F01	5-10	1015	11129	Wed	Russian diplo/intel. 30009 09782 65837 ... 33958 16932 93411 00000 +++++	FSK 200/500	(AB)
F01	5-10	1025	9082	Wed	Russian diplo/intel. 30009 09782 65837 ... 33958 16932 93411 00000 +++++	FSK 200/500	(AB-RUS)
F01	5-10	1035	7344	Wed	Russian diplo/intel. 30009 09782 65837 ... 33958 16932 93411 00000 +++++	FSK 200/500	(AB-RUS)
F01	5-10	1840	11136	Wed	Russian diplo/intel. 5761 00000 +++++ +++++	FSK 200/500	(AB)
F01	5-10	1850	9074	Wed	Russian diplo/intel. 5761 00000 +++++ +++++	FSK 200/500	(AB)
F01	5-10	1900	7723	Wed	Russian diplo/intel. 5761 00000 +++++ +++++	FSK 200/500	(AB)



F01	6-10	1015	11129	Thu	Russian diplo/intel. Two messages	FSK 200/500	(AB)
F01	6-10	1025	9082	Thu	Russian diplo/intel. Two messages	FSK 200/500	(AB-RUS)
F01	6-10	1035	7344	Thu	Russian diplo/intel. Two messages	FSK 200/500	(AB-RUS)
F01	7-10	1015	11129	Fri	Russian diplo/intel. 5761 00000 +++++ +++++	FSK 200/500	(AB)
F01	7-10	1025	9082	Fri	Russian diplo/intel. 5761 00000 +++++ +++++	FSK 200/500	(AB-RUS)
F01	7-10	1035	7344	Fri	Russian diplo/intel. 5761 00000 +++++ +++++	FSK 200/500	(AB-RUS)
F01	10-10	1015	11129	Mon	Russian diplo/intel. 22202 81849 57296 ... 56177 86864 96435 00000 +++++	FSK 200/500	(AB-RUS)
F01	10-10	1025	9082	Mon	Russian diplo/intel. 22202 81849 57296 ... 56177 86864 96435 00000 +++++	FSK 200/500	(AB-RUS)
F01	10-10	1035	7344	Mon	Russian diplo/intel. 22202 81849 57296 ... 56177 86864 96435 00000 +++++	FSK 200/500	(AB-RUS)
F01	11-10	1015	11129	Tue	Russian diplo/intel. Two messages	FSK 200/500	(AB/MPJ/HFD)
F01	11-10	1025	9082	Tue	Russian diplo/intel. Two messages	FSK 200/500	(AB-RUS/MPJ/HFD)
F01	11-10	1035	7344	Tue	Russian diplo/intel. Two messages	FSK 200/500	(AB-RUS/MPJ/HFD)
F01	12-10	1015	11129	Wed	Russian diplo/intel. 46206 74238 49901 ... 98144 91050 99425 00000 +++++ +++++	FSK 200/500	(AB)
F01	12-10	1025	9082	Wed	Russian diplo/intel. 46206 74238 49901 ... 98144 91050 99425 00000 +++++ +++++	FSK 200/500	(AB-RUS)
F01	12-10	1035	7344	Wed	Russian diplo/intel. 46206 74238 49901 ... 98144 91050 99425 00000 +++++ +++++	FSK 200/500	(AB-RUS)
F01	13-10	1015	11129	Thu	Russian diplo/intel. Two messages	FSK 200/500	(AB)
F01	13-10	1025	9082	Thu	Russian diplo/intel. Two messages	FSK 200/500	(AB-RUS)
F01	13-10	1035	7344	Thu	Russian diplo/intel. Two messages	FSK 200/500	(AB-RUS)
F01	14-10	1015	11129	Fri	Russian diplo/intel. 5761 00000 +++++ +++++	FSK 200/500	(AB)
F01	14-10	1025	9082	Fri	Russian diplo/intel. 5761 00000 +++++ +++++	FSK 200/500	(AB-RUS)
F01	14-10	1035	7344	Fri	Russian diplo/intel. 5761 00000 +++++ +++++	FSK 200/500	(AB-RUS)
F01	17-10	1015	11129	Mon	Russian diplo/intel. 67889 31776 54103 ... 73014 75535 03419 00000 +++++ +++++	FSK 200/500	(AB-RUS)
F01	17-10	1025	9082	Mon	Russian diplo/intel. 67889 31776 54103 ... 73014 75535 03419 00000 +++++ +++++	FSK 200/500	(AB-RUS)
F01	17-10	1035	7344	Mon	Russian diplo/intel. 67889 31776 54103 ... 73014 75535 03419 00000 +++++ +++++	FSK 200/500	(AB-RUS)
F01	18-10	1015	11129	Tue	Russian diplo/intel. Two messages	FSK 200/500	(AB)
F01	18-10	1025	9082	Tue	Russian diplo/intel. Two messages	FSK 200/500	(AB-RUS)
F01	18-10	1035	7344	Tue	Russian diplo/intel. Two messages	FSK 200/500	(AB-RUS)
F01	19-10	1015	11129	Wed	Russian diplo/intel. 91135 19443 78375 ... 35610 04702 06427 00000 +++++ +++++ +++++ Wrong shift	FSK 200/1000	(AB)
F01	19-10	1025	9082	Wed	Russian diplo/intel. 91135 19443 78375 ... 35610 04702 06427 00000 +++++ +++++ +++++	FSK 200/500	(AB-RUS)
F01	19-10	1035	7344	Wed	Russian diplo/intel. 91135 19443 78375 ... 35610 04702 06427 00000 +++++ +++++ +++++	FSK 200/500	(AB-RUS)
F01	20-10	1015	11129	Thu	Russian diplo/intel. Two messages	FSK 200/500	(AB)
F01	20-10	1025	9082	Thu	Russian diplo/intel. Two messages	FSK 200/500	(AB-RUS)
F01	20-10	1035	7344	Thu	Russian diplo/intel. Two messages	FSK 200/500	(AB-RUS)
F01	21-10	1015	11129	Fri	Russian diplo/intel. 5761 00000 +++++ +++++	FSK 200/500	(AB)
F01	21-10	1025	9082	Fri	Russian diplo/intel. 5761 00000 +++++ +++++	FSK 200/500	(AB-RUS)
F01	21-10	1035	7344	Fri	Russian diplo/intel. 5761 00000 +++++ +++++	FSK 200/500	(AB-RUS)
F01	24-10	1015	11129	Mon	Russian diplo/intel. 65118 76480 79276 ... 38982 59577 09413 00000 +++++ +++++	FSK 200/500	(AB-RUS)
F01	24-10	1025	9082	Mon	Russian diplo/intel. 65118 76480 79276 ... 38982 59577 09413 00000 +++++ +++++	FSK 200/500	(AB-RUS)
F01	24-10	1035	7344	Mon	Russian diplo/intel. 65118 76480 79276 ... 38982 59577 09413 00000 +++++ +++++	FSK 200/500	(AB-RUS)
F01	25-10	1015	11129	Tue	Russian diplo/intel. Two messages	FSK 200/500	(AB)
F01	25-10	1025	9082	Tue	Russian diplo/intel. Two messages	FSK 200/500	(AB-RUS)

<b>F01</b>	25-10	1035	7344	Tue	Russian diplo/intel. Two messages	FSK 200/500	(AB-RUS)
<b>F01</b>	26-10	1015	11129	Wed	Russian diplo/intel. 17524 63179 44988 ... 74293 06365 12407 00000 +++++ +++++	FSK 200/500	(AB)
<b>F01</b>	26-10	1025	9082	Wed	Russian diplo/intel. 17524 63179 44988 ... 74293 06365 12407 00000 +++++ +++++	FSK 200/500	(AB-RUS)
<b>F01</b>	26-10	1035	7344	Wed	Russian diplo/intel. 17524 63179 44988 ... 74293 06365 12407 00000 +++++ +++++	FSK 200/500	(AB-RUS)
<b>F01</b>	27-10	1015	11129	Thu	Russian diplo/intel. Two messages	FSK 200/500	(AB)
<b>F01</b>	27-10	1025	9082	Thu	Russian diplo/intel. Two messages	FSK 200/500	(AB-RUS)
<b>F01</b>	27-10	1035	7344	Thu	Russian diplo/intel. Two messages	FSK 200/500	(AB-RUS)
<b>F01</b>	28-10	1015	11129	Fri	Russian diplo/intel. 5761 00000 +++++ +++++	FSK 200/500	(AB-POL)
<b>F01</b>	28-10	1025	9082	Fri	Russian diplo/intel. 5761 00000 +++++ +++++	FSK 200/500	(AB-RUS)
<b>F01</b>	28-10	1035	7344	Fri	Russian diplo/intel. 5761 00000 +++++ +++++	FSK 200/500	(AB-RUS)
<b>F01</b>	31-10	1015	11129	Mon	Russian diplo/intel. 37542 12070 11762 ... 58972 99541 15433 00000 +++++ +++++ +++++	FSK 200/500	(AB-RUS)
<b>F01</b>	31-10	1025	9082	Mon	Russian diplo/intel. 37542 12070 11762 ... 58972 99541 15433 00000 +++++ +++++ +++++	FSK 200/500	(AB-RUS)
<b>F01</b>	31-10	1035	7344	Mon	Russian diplo/intel. 37542 12070 11762 ... 58972 99541 15433 00000 +++++ +++++ +++++	FSK 200/500	(AB-RUS)
<b>F02</b>	10-10	0820	13387	Mon	Russian net	MFSK-2/150Bd/4000Hz	(AB)
<b>F02</b>	10-10	0835	13387	Mon	Russian net	MFSK-4/150Bd/4000Hz	(AB)
<b>F02</b>	10-10	0840	12155	Mon	Russian net	MFSK-4/150Bd/4000Hz	(AB)
<b>F02</b>	11-10	0830	16230	Tue	Russian net. QSX 17467 kHz	MFSK-4/150Bd/4000Hz	(AB)
<b>F02</b>	11-10	0835	17467	Tue	Russian net. QSX 16230 kHz	MFSK-4/150Bd/4000Hz	(AB)
<b>F02</b>	17-10	0830	12155	Mon	Russian net. QSX 13992 kHz	MFSK-4/150Bd/4000Hz	(AB)
<b>F02</b>	17-10	0830	13392	Mon	Russian net. QSX 12155 kHz	MFSK-4/150Bd/4000Hz	(AB)
<b>F02</b>	18-10	0830	16230	Tue	Russian net. QSX 17467 kHz	MFSK-4/150Bd/4000Hz	(AB)
<b>F02</b>	18-10	0835	17467	Tue	Russian net. QSX 16230 kHz	MFSK-4/150Bd/4000Hz	(AB)
<b>F02</b>	21-10	0830	16230	Fri	Russian domestic net. QSX 17467 kHz	MFSK-4/150Bd/4000Hz	(AB)
<b>F02</b>	21-10	0830	17467	Fri	Russian domestic net. QSX 16230 kHz	MFSK-4/150Bd/4000Hz	(AB)
<b>F02</b>	24-10	0830	12155	Mon	Russian net. QSX 13992 kHz	MFSK-4/150Bd/4000Hz	(AB)
<b>F02</b>	24-10	0830	13392	Mon	Russian net. QSX 12155 kHz	MFSK-4/150Bd/4000Hz	(AB)
<b>F02</b>	25-10	0830	16230	Tue	Russian domestic net	MFSK-4/150Bd/4000Hz	(AB)
<b>F02</b>	28-10	0830	16230	Fri	Russian domestic net. QSX 17467 kHz	MFSK-4/150Bd/4000Hz	(AB)
<b>F02</b>	28-10	0830	17467	Fri	Russian domestic net. QSX 16230 kHz	MFSK-4/150Bd/4000Hz	(AB)
<b>F02</b>	31-10	0830	12155	Mon	Russian domestic net. QSX 13992 kHz	MFSK-4/150Bd/4000Hz	(AB)
<b>F02</b>	31-10	0830	13392	Mon	Russian domestic net. QSX 12155 kHz	MFSK-4/150Bd/4000Hz	(AB)
<b>F03j</b>	1-10	0135	4181	Sat	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	1-10	0140	4181	Sat	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	2-10	0135	4181	Sun	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	2-10	0140	4181	Sun	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	3-10	0135	4181	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	3-10	0140	4181	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	3-10	0615	16125	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	3-10	0620	16125	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	3-10	0630	19515	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	3-10	0635	19515	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	3-10	0950	10210	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)

<b>F03j</b>	3-10	0955	10210	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	4-10	0135	4181	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	4-10	0140	4181	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	4-10	0635	14975	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	4-10	0640	14975	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	4-10	0810	9339	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	4-10	0815	9339	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	4-10	0835	13046	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	4-10	0840	13046	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	4-10	1100	6849	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	4-10	1105	6849	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	5-10	0135	4181	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	5-10	0140	4181	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	5-10	0950	10210	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	5-10	0955	10210	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	5-10	1100	6849	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	5-10	1105	6849	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	6-10	0135	4181	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	6-10	0140	4181	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	6-10	0635	14975	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	6-10	0640	14975	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	6-10	0800	5409	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	6-10	0805	5409	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	6-10	0835	13046	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	6-10	0840	13046	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	7-10	0135	4181	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	7-10	0140	4181	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	7-10	0800	5409	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	7-10	0805	5409	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	7-10	0850	9339	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	7-10	0855	9339	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	8-10	0135	4181	Sat	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	8-10	0140	4181	Sat	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	9-10	0135	4181	Sun	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	9-10	0140	4181	Sun	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	10-10	0135	4181	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	10-10	0140	4181	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	10-10	0615	16125	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	10-10	0620	16125	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	10-10	0630	19515	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	10-10	0635	19515	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	10-10	0950	10210	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB/MPJ)

<b>F03j</b>	10-10	0955	10210	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB/MPJ)
<b>F03j</b>	11-10	0135	4181	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	11-10	0140	4181	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	11-10	0635	14975	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	11-10	0640	14975	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	11-10	0810	9339	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	11-10	0815	9339	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	11-10	0835	13046	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	11-10	0840	13046	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	11-10	1100	6849	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	11-10	1105	6849	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	12-10	0135	4181	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	12-10	0140	4181	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	12-10	0615	16125	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	12-10	0620	16125	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	12-10	0630	19515	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	12-10	0635	19515	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	12-10	0950	10210	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	12-10	0955	10210	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	12-10	1100	6849	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	12-10	1105	6849	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	13-10	0135	4181	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	13-10	0140	4181	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	13-10	0635	14975	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	13-10	0640	14975	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	13-10	0800	5409	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	13-10	0805	5409	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	13-10	0835	13046	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	13-10	0840	13046	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	14-10	0135	4181	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	14-10	0140	4181	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	14-10	0800	5409	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	14-10	0805	5409	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	14-10	0850	9339	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB/XAH)
<b>F03j</b>	14-10	0855	9339	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB/XAH)
<b>F03j</b>	15-10	0135	4181	Sat	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	15-10	0140	4181	Sat	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	16-10	0135	4181	Sun	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	16-10	0140	4181	Sun	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	17-10	0140	4181	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	17-10	0615	16125	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	17-10	0620	16125	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)

<b>F03j</b>	17-10	0630	19515	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	17-10	0635	19515	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	17-10	0950	10210	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	17-10	0955	10210	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	18-10	0135	4181	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	18-10	0140	4181	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	18-10	0635	14975	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	18-10	0640	14975	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	18-10	0810	9339	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	18-10	0815	9339	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	18-10	0835	13046	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	18-10	0840	13046	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	18-10	1100	6849	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB/MPJ)
<b>F03j</b>	18-10	1105	6849	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB/MPJ)
<b>F03j</b>	19-10	0135	4181	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	19-10	0140	4181	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	19-10	0615	16125	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	19-10	0620	16125	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	19-10	0630	19515	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	19-10	0635	19515	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	19-10	0950	10210	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	19-10	0955	10210	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	19-10	1100	6849	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	19-10	1105	6849	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	20-10	0135	4181	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
<b>F03j</b>	20-10	0140	4181	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
<b>F03j</b>	20-10	0635	14975	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	20-10	0640	14975	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	20-10	0800	5409	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	20-10	0805	5409	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	20-10	0835	13046	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	20-10	0840	13046	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	21-10	0135	4181	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	21-10	0140	4181	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	21-10	0800	5409	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	21-10	0805	5409	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	21-10	0850	9339	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	21-10	0855	9339	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	22-10	0135	4181	Sat	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	22-10	0140	4181	Sat	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	23-10	0135	4181	Sun	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	23-10	0140	4181	Sun	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)



F03j	24-10	0135	4181	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	24-10	0140	4181	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	24-10	0615	16125	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	24-10	0620	16125	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	24-10	0630	19515	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	24-10	0635	19515	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	24-10	0950	10210	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	24-10	0955	10210	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	25-10	0135	4181	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	25-10	0140	4181	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	25-10	0635	14975	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	25-10	0640	14975	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	25-10	0810	9339	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	25-10	0815	9339	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	25-10	0835	13046	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	25-10	0840	13046	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	25-10	1100	6849	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	25-10	1105	6849	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	26-10	0135	4181	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	26-10	0140	4181	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	26-10	0615	16125	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	26-10	0620	16125	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	26-10	0630	19515	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	26-10	0635	19515	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	26-10	0950	10210	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	26-10	0955	10210	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	26-10	1100	6849	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	26-10	1105	6849	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	27-10	0135	4181	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	27-10	0140	4181	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	27-10	0635	14975	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	27-10	0640	14975	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	27-10	0800	5409	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	27-10	0805	5409	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	27-10	0835	13046	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	27-10	0840	13046	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	28-10	0135	4181	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	28-10	0140	4181	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	28-10	0800	5409	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	28-10	0805	5409	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	28-10	0850	9339	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	28-10	0855	9339	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)

F03j	29-10	0135	4181	Sat	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	29-10	0140	4181	Sat	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	30-10	0135	4181	Sun	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	30-10	0140	4181	Sun	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	31-10	0135	4181	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	31-10	0140	4181	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	31-10	0630	19515	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	31-10	0635	19515	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	31-10	0950	10210	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	31-10	0955	10210	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03I	1-10	0735	10641	Sat	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	1-10	0740	10641	Sat	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	1-10	1335	10641	Sat	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	1-10	1340	10641	Sat	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	2-10	0735	10641	Sun	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	2-10	0740	10641	Sun	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	2-10	1335	10641	Sun	Polish intel.	FSK-2 100Bd/200Hz	(AB/MPJ)
F03I	2-10	1340	10641	Sun	Polish intel.	FSK-2 100Bd/200Hz	(AB/MPJ)
F03I	3-10	0735	10641	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	3-10	0740	10641	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	3-10	0810	12385	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	3-10	0815	12385	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	3-10	0930	6397	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	3-10	0935	6397	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	3-10	1010	12153	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	3-10	1015	12153	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	3-10	1030	7377	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	3-10	1035	7377	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	3-10	1335	10641	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	3-10	1340	10641	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	3-10	1830	7798	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	3-10	1835	7798	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	4-10	0615	10125	Tue	Polish intel.	FSK-2 100Bd/200Hz	(PY)
F03I	4-10	0620	10125	Tue	Polish intel.	FSK-2 100Bd/200Hz	(PY)
F03I	4-10	0720	10125	Tue	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	4-10	0725	10125	Tue	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	4-10	0735	10641	Tue	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	4-10	0740	10641	Tue	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	4-10	0800	18030	Tue	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	4-10	0805	18030	Tue	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	4-10	1335	10641	Tue	Polish intel.	FSK-2 100Bd/200Hz	(MPJ)
F03I	4-10	1340	10641	Tue	Polish intel.	FSK-2 100Bd/200Hz	(MPJ)

F03I	4-10	1500	7984	Tue	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	4-10	1505	7984	Tue	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	5-10	0430	11104	Wed	Polish intel.	FSK-2 100Bd/200Hz	(AB-POL)
F03I	5-10	0435	11104	Wed	Polish intel.	FSK-2 100Bd/200Hz	(AB-POL)
F03I	5-10	0735	10641	Wed	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	5-10	0740	10641	Wed	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	5-10	0800	18030	Wed	Polish intel.	FSK-2 100Bd/200Hz	(Time)
F03I	5-10	0805	18030	Wed	Polish intel.	FSK-2 100Bd/200Hz	(Time)
F03I	5-10	0915	6849	Wed	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	5-10	0920	6849	Wed	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	5-10	1010	12153	Wed	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	5-10	1015	12153	Wed	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	5-10	1030	7377	Wed	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	5-10	1035	7377	Wed	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	5-10	1315	15915	Wed	Polish intel.	FSK-2 100Bd/200Hz	(AB-POL)
F03I	5-10	1320	15915	Wed	Polish intel.	FSK-2 100Bd/200Hz	(AB-POL)
F03I	5-10	1335	10641	Wed	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	5-10	1340	10641	Wed	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	6-10	0615	10125	Thu	Polish intel.	FSK-2 100Bd/200Hz	(PY)
F03I	6-10	0620	10125	Thu	Polish intel.	FSK-2 100Bd/200Hz	(PY)
F03I	6-10	0720	10125	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	6-10	0725	10125	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	6-10	0725	13873	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	6-10	0730	13873	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	6-10	0735	10641	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	6-10	0740	10641	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	6-10	0915	6849	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB/MPJ)
F03I	6-10	0920	6849	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB/MPJ)
F03I	6-10	1335	10641	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB/MPJ)
F03I	6-10	1340	10641	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB/MPJ)
F03I	6-10	1830	7798	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	6-10	1835	7798	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	7-10	0735	10641	Fri	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	7-10	0740	10641	Fri	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	7-10	0810	12385	Fri	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	7-10	0815	12385	Fri	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	7-10	0930	6397	Fri	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	7-10	0935	6397	Fri	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	7-10	0945	6940	Fri	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	7-10	0950	6940	Fri	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	7-10	1315	15915	Fri	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	7-10	1320	15915	Fri	Polish intel.	FSK-2 100Bd/200Hz	(AB)



F03I	7-10	1335	10641	Fri	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	7-10	1340	10641	Fri	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	7-10	1500	7984	Fri	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	7-10	1505	7984	Fri	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	8-10	0735	10641	Sat	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	8-10	0740	10641	Sat	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	8-10	1335	10641	Sat	Polish intel.	FSK-2 100Bd/200Hz	(AB/MPJ)
F03I	8-10	1340	10641	Sat	Polish intel.	FSK-2 100Bd/200Hz	(AB/MPJ)
F03I	9-10	0735	10641	Sun	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	9-10	0740	10641	Sun	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	9-10	1335	10641	Sun	Polish intel.	FSK-2 100Bd/200Hz	(AB/MPJ)
F03I	9-10	1340	10641	Sun	Polish intel.	FSK-2 100Bd/200Hz	(AB/MPJ)
F03I	10-10	0735	10641	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	10-10	0740	10641	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	10-10	0810	12385	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	10-10	0815	12385	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	10-10	0930	6397	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB/MPJ)
F03I	10-10	0935	6397	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB/MPJ)
F03I	10-10	1010	12153	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	10-10	1015	12153	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	10-10	1030	7377	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	10-10	1035	7377	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	10-10	1335	10641	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	10-10	1340	10641	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	10-10	1830	7798	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	10-10	1835	7798	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	11-10	0615	10125	Tue	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	11-10	0620	10125	Tue	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	11-10	0720	10125	Tue	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	11-10	0725	10125	Tue	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	11-10	0725	13873	Tue	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	11-10	0730	13873	Tue	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	11-10	0735	10641	Tue	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	11-10	0740	10641	Tue	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	11-10	0800	18030	Tue	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	11-10	0805	18030	Tue	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	11-10	0945	6940	Tue	Polish intel.	FSK-2 100Bd/200Hz	(AB/MPJ)
F03I	11-10	0945	6940	Tue	Polish intel.	FSK-2 100Bd/200Hz	(AB/MPJ)
F03I	11-10	1335	10641	Tue	Polish intel.	FSK-2 100Bd/200Hz	(MPJ)
F03I	11-10	1340	10641	Tue	Polish intel.	FSK-2 100Bd/200Hz	(MPJ)
F03I	11-10	1500	7984	Tue	Polish intel.	FSK-2 100Bd/200Hz	(AB/MPJ)
F03I	11-10	1505	7984	Tue	Polish intel.	FSK-2 100Bd/200Hz	(AB/MPJ)

F03I	12-10	0430	11104	Wed	Polish intel.	FSK-2 100Bd/200Hz	(AB-POL)
F03I	12-10	0435	11104	Wed	Polish intel.	FSK-2 100Bd/200Hz	(AB-POL)
F03I	12-10	0735	10641	Wed	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	12-10	0740	10641	Wed	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	12-10	0800	18030	Wed	Polish intel.	FSK-2 100Bd/200Hz	(Time)
F03I	12-10	0805	18030	Wed	Polish intel.	FSK-2 100Bd/200Hz	(Time)
F03I	12-10	0915	6849	Wed	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	12-10	0920	6849	Wed	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	12-10	1010	12153	Wed	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	12-10	1015	12153	Wed	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	12-10	1030	7377	Wed	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	12-10	1035	7377	Wed	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	12-10	1315	15915	Wed	Polish intel.	FSK-2 100Bd/200Hz	(AB-POL)
F03I	12-10	1320	15915	Wed	Polish intel.	FSK-2 100Bd/200Hz	(AB-POL)
F03I	12-10	1335	10641	Wed	Polish intel.	FSK-2 100Bd/200Hz	(AB/MPJ)
F03I	12-10	1340	10641	Wed	Polish intel.	FSK-2 100Bd/200Hz	(AB/MPJ)
F03I	13-10	0430	11104	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB-POL)
F03I	13-10	0435	11104	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB-POL)
F03I	13-10	0615	10125	Thu	Polish intel.	FSK-2 100Bd/200Hz	(PY)
F03I	13-10	0620	10125	Thu	Polish intel.	FSK-2 100Bd/200Hz	(PY)
F03I	13-10	0720	10125	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	13-10	0725	10125	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	13-10	0725	13873	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	13-10	0730	13873	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	13-10	0735	10641	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	13-10	0740	10641	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	13-10	0915	6849	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	13-10	0920	6849	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	13-10	1335	10641	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB/MPJ)
F03I	13-10	1340	10641	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB/MPJ)
F03I	13-10	1830	7798	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	13-10	1835	7798	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	14-10	0735	10641	Fri	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	14-10	0740	10641	Fri	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	14-10	0810	12385	Fri	Polish intel.	FSK-2 100Bd/200Hz	(AB/XAH)
F03I	14-10	0815	12385	Fri	Polish intel.	FSK-2 100Bd/200Hz	(AB/XAH)
F03I	14-10	0930	6397	Fri	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	14-10	0935	6397	Fri	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	14-10	0945	6940	Fri	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	14-10	0950	6940	Fri	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	14-10	1315	15915	Fri	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	14-10	1320	15915	Fri	Polish intel.	FSK-2 100Bd/200Hz	(AB)

F03I	14-10	1335	10641	Fri	Polish intel.	FSK-2 100Bd/200Hz	(AB/MPJ)
F03I	14-10	1340	10641	Fri	Polish intel.	FSK-2 100Bd/200Hz	(AB/MPJ)
F03I	14-10	1500	7984	Fri	Polish intel.	FSK-2 100Bd/200Hz	(AB/MPJ)
F03I	14-10	1505	7984	Fri	Polish intel.	FSK-2 100Bd/200Hz	(AB/MPJ)
F03I	15-10	0735	10641	Sat	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	15-10	0740	10641	Sat	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	15-10	1335	10641	Sat	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	15-10	1340	10641	Sat	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	16-10	0735	10641	Sun	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	16-10	0740	10641	Sun	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	16-10	1335	10641	Sun	Polish intel.	FSK-2 100Bd/200Hz	(MPJ)
F03I	16-10	1340	10641	Sun	Polish intel.	FSK-2 100Bd/200Hz	(MPJ)
F03I	17-10	0735	10641	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	17-10	0740	10641	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	17-10	0810	12385	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	17-10	0815	12385	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	17-10	0930	6397	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	17-10	0935	6397	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	17-10	1010	12153	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	17-10	1015	12153	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	17-10	1030	11092	Mon	Polish intel.	FSK-2 100Bd/200Hz	(PY)
F03I	17-10	1035	11092	Mon	Polish intel.	FSK-2 100Bd/200Hz	(PY)
F03I	17-10	1335	10641	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	17-10	1340	10641	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	17-10	1830	7798	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	17-10	1835	7798	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	18-10	0615	10125	Tue	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	18-10	0620	10125	Tue	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	18-10	0720	10125	Tue	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	18-10	0725	10125	Tue	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	18-10	0725	13873	Tue	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	18-10	0730	13873	Tue	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	18-10	0735	10641	Tue	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	18-10	0740	10641	Tue	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	18-10	0800	18030	Tue	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	18-10	0805	18030	Tue	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	18-10	0945	6940	Tue	Polish intel.	FSK-2 100Bd/200Hz	(AB/MPJ)
F03I	18-10	0945	6940	Tue	Polish intel.	FSK-2 100Bd/200Hz	(AB/MPJ)
F03I	18-10	1335	10641	Tue	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	18-10	1340	10641	Tue	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	18-10	1500	7984	Tue	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	18-10	1505	7984	Tue	Polish intel.	FSK-2 100Bd/200Hz	(AB)

F03I	19-10	0430	11104	Wed	Polish intel.	FSK-2 100Bd/200Hz	(AB-POL)
F03I	19-10	0435	11104	Wed	Polish intel.	FSK-2 100Bd/200Hz	(AB-POL)
F03I	19-10	0735	10641	Wed	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	19-10	0740	10641	Wed	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	19-10	0800	18030	Wed	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	19-10	0805	18030	Wed	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	19-10	0915	6849	Wed	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	19-10	0920	6849	Wed	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	19-10	1010	12153	Wed	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	19-10	1015	12153	Wed	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	19-10	1030	11092	Wed	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	19-10	1035	11092	Wed	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	19-10	1315	15915	Wed	Polish intel.	FSK-2 100Bd/200Hz	(AB-POL)
F03I	19-10	1320	15915	Wed	Polish intel.	FSK-2 100Bd/200Hz	(AB-POL)
F03I	19-10	1335	10641	Wed	Polish intel.	FSK-2 100Bd/200Hz	(AB/MPJ)
F03I	19-10	1340	10641	Wed	Polish intel.	FSK-2 100Bd/200Hz	(AB/MPJ)
F03I	20-10	0430	11104	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB-POL)
F03I	20-10	0435	11104	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB-POL)
F03I	20-10	0615	10125	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	20-10	0620	10125	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	20-10	0720	10125	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	20-10	0725	10125	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	20-10	0725	13873	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	20-10	0730	13873	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	20-10	0735	10641	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	20-10	0740	10641	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	20-10	0915	6849	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	20-10	0920	6849	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	20-10	1335	10641	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB/MPJ)
F03I	20-10	1340	10641	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB/MPJ)
F03I	20-10	1830	7798	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	20-10	1835	7798	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	21-10	0735	10641	Fri	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	21-10	0740	10641	Fri	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	21-10	0810	12385	Fri	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	21-10	0815	12385	Fri	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	21-10	0930	6397	Fri	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	21-10	0935	6397	Fri	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	21-10	0945	6940	Fri	Polish intel.	FSK-2 100Bd/200Hz	(AB/MPJ)
F03I	21-10	0950	6940	Fri	Polish intel.	FSK-2 100Bd/200Hz	(AB/MPJ)
F03I	21-10	1315	15915	Fri	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	21-10	1320	15915	Fri	Polish intel.	FSK-2 100Bd/200Hz	(AB)

F03I	21-10	1335	10641	Fri	Polish intel.	FSK-2 100Bd/200Hz	(AB/MPJ)
F03I	21-10	1340	10641	Fri	Polish intel.	FSK-2 100Bd/200Hz	(AB/MPJ)
F03I	21-10	1500	7984	Fri	Polish intel.	FSK-2 100Bd/200Hz	(AB/MPJ)
F03I	21-10	1505	7984	Fri	Polish intel.	FSK-2 100Bd/200Hz	(AB/MPJ)
F03I	22-10	0735	10641	Sat	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	22-10	0740	10641	Sat	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	22-10	1335	10641	Sat	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	22-10	1340	10641	Sat	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	23-10	0735	10641	Sun	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	23-10	0740	10641	Sun	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	23-10	1335	10641	Sun	Polish intel.	FSK-2 100Bd/200Hz	(AB/MPJ)
F03I	23-10	1340	10641	Sun	Polish intel.	FSK-2 100Bd/200Hz	(AB/MPJ)
F03I	24-10	0735	10641	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	24-10	0740	10641	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	24-10	0810	12385	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	24-10	0815	12385	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	24-10	0930	6397	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	24-10	0935	6397	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	24-10	1010	12153	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB/MPJ)
F03I	24-10	1015	12153	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB/MPJ)
F03I	24-10	1030	11092	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB/MPJ)
F03I	24-10	1035	11092	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB/MPJ)
F03I	24-10	1335	10641	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB/MPJ)
F03I	24-10	1340	10641	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB/MPJ)
F03I	24-10	1830	7798	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	24-10	1835	7798	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	25-10	0615	10125	Tue	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	25-10	0620	10125	Tue	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	25-10	0720	10125	Tue	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	25-10	0725	10125	Tue	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	25-10	0725	13873	Tue	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	25-10	0730	13873	Tue	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	25-10	0735	10641	Tue	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	25-10	0740	10641	Tue	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	25-10	0800	18030	Tue	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	25-10	0805	18030	Tue	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	25-10	0945	6940	Tue	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	25-10	0945	6940	Tue	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	25-10	1335	10641	Tue	Polish intel.	FSK-2 100Bd/200Hz	(AB/MPJ)
F03I	25-10	1340	10641	Tue	Polish intel.	FSK-2 100Bd/200Hz	(AB/MPJ)
F03I	25-10	1500	7984	Tue	Polish intel.	FSK-2 100Bd/200Hz	(AB/MPJ)
F03I	25-10	1505	7984	Tue	Polish intel.	FSK-2 100Bd/200Hz	(AB/MPJ)

F03I	26-10	0430	11104	Wed	Polish intel.	FSK-2 100Bd/200Hz	(AB-POL)
F03I	26-10	0435	11104	Wed	Polish intel.	FSK-2 100Bd/200Hz	(AB-POL)
F03I	26-10	0735	10641	Wed	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	26-10	0740	10641	Wed	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	26-10	0800	18030	Wed	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	26-10	0805	18030	Wed	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	26-10	0915	6849	Wed	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	26-10	0920	6849	Wed	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	26-10	1010	12153	Wed	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	26-10	1015	12153	Wed	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	26-10	1030	11092	Wed	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	26-10	1035	11092	Wed	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	26-10	1315	15915	Wed	Polish intel.	FSK-2 100Bd/200Hz	(AB-POL)
F03I	26-10	1320	15915	Wed	Polish intel.	FSK-2 100Bd/200Hz	(AB-POL)
F03I	26-10	1335	10641	Wed	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	26-10	1340	10641	Wed	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	27-10	0430	11104	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB-POL)
F03I	27-10	0435	11104	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB-POL)
F03I	27-10	0615	10125	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	27-10	0620	10125	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	27-10	0720	10125	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	27-10	0725	10125	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	27-10	0725	13873	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	27-10	0730	13873	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	27-10	0735	10641	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	27-10	0740	10641	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	27-10	0915	6849	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	27-10	0920	6849	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	27-10	1335	10641	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	27-10	1340	10641	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	27-10	1830	7798	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	27-10	1835	7798	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	28-10	0735	10641	Fri	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	28-10	0740	10641	Fri	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	28-10	0810	12385	Fri	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	28-10	0815	12385	Fri	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	28-10	0930	6397	Fri	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	28-10	0935	6397	Fri	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	28-10	0945	6940	Fri	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	28-10	0950	6940	Fri	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	28-10	1315	15915	Fri	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	28-10	1320	15915	Fri	Polish intel.	FSK-2 100Bd/200Hz	(AB)



F03I	28-10	1335	10641	Fri	Polish intel.	FSK-2 100Bd/200Hz	(AB/MPJ)
F03I	28-10	1340	10641	Fri	Polish intel.	FSK-2 100Bd/200Hz	(AB/MPJ)
F03I	28-10	1500	7984	Fri	Polish intel.	FSK-2 100Bd/200Hz	(AB/MPJ)
F03I	28-10	1505	7984	Fri	Polish intel.	FSK-2 100Bd/200Hz	(AB/MPJ)
F03I	29-10	0735	10641	Sat	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	29-10	0740	10641	Sat	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	29-10	1335	10641	Sat	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	29-10	1340	10641	Sat	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	30-10	0735	10641	Sun	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	30-10	0740	10641	Sun	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	30-10	1335	10641	Sun	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	30-10	1340	10641	Sun	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	31-10	0735	10641	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	31-10	0740	10641	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	31-10	0810	12385	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	31-10	0815	12385	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	31-10	0930	6397	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	31-10	0935	6397	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	31-10	1010	12153	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	31-10	1015	12153	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	31-10	1030	11092	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	31-10	1035	11092	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	31-10	1335	10641	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	31-10	1340	10641	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	31-10	1830	7798	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	31-10	1835	7798	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F06	2-10	1530	12189	Sun	Russian diplo/intel. 11166 10053 15937 02001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ/XAH)
F06	2-10	1540	10734	Sun	Russian diplo/intel. 11166 10053 15937 02001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ/XAH)
F06	2-10	1550	9129	Sun	Russian diplo/intel. 11166 10053 15937 02001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ/XAH)
F06	3-10	0400	6848	Mon	Russian diplo/intel. 11166 70059 15973 03001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	3-10	0410	5433	Mon	Russian diplo/intel. 11166 70059 15973 03001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	3-10	0420	4840	Mon	Russian diplo/intel. 11166 70059 15973 03001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	3-10	0700	10541	Mon	Russian diplo/intel. 11166 70202 18526 30022 02199	FSK 200/1000	(AB)
F06	3-10	0710	8113	Mon	Russian diplo/intel. 11166 70202 18526 30022 02199	FSK 200/1000	(AB-RUS)
F06	3-10	0720	6791	Mon	Russian diplo/intel. 11166 70202 18526 30022 02199	FSK 200/1000	(AB-RUS)
F06	3-10	1200	11173	Mon	Russian diplo/intel. 11166 70202 18526 30022 02199	FSK 200/1000	(AB)
F06	3-10	1210	9246	Mon	Russian diplo/intel. 11166 70202 18526 30022 02199	FSK 200/1000	(AB-RUS)
F06	3-10	1220	7611	Mon	Russian diplo/intel. 11166 70202 18526 30022 02199	FSK 200/1000	(AB-RUS)
F06	4-10	0700	10541	Tue	Russian diplo/intel. 11166 70202 26541 03023 01539 and 11166 70202 45712 03024 01799	FSK 200/1000	(AB)
F06	4-10	0710	8113	Tue	Russian diplo/intel. 11166 70202 26541 03023 01539 and 11166 70202 45712 03024 01799	FSK 200/1000	(AB-RUS)
F06	4-10	0720	6791	Tue	Russian diplo/intel. 11166 70202 26541 03023 01539 and 11166 70202 45712 03024 01799	FSK 200/1000	(AB-RUS)
F06	4-10	1200	11173	Tue	Russian diplo/intel. 11166 70202 26541 03023 01539 and 11166 70202 45712 03024 01799	FSK 200/1000	(AB/MPJ)

F06	4-10	1210	9246	Tue	Russian diplo/intel. 11166 70202 26541 03023 01539 and 11166 70202 45712 03024 01799	FSK 200/1000	(AB-RUS/MPJ)
F06	4-10	1220	7611	Tue	Russian diplo/intel. 11166 70202 26541 03023 01539 and 11166 70202 45712 03024 01799	FSK 200/1000	(AB-RUS/MPJ)
F06	4-10	1650	12215	Tue	Russian diplo/intel. 11166 10053 15973 04001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	4-10	1700	10814	Tue	Russian diplo/intel. 11166 10053 15973 04001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	4-10	1710	9046	Tue	Russian diplo/intel. 11166 10053 15973 04001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	5-10	0600	19268	Wed	Russian diplo/intel. 11166 40122 63259 01023 03579	FSK 200/1000	(AB-J)
F06	5-10	0610	17548	Wed	Russian diplo/intel. 11166 40122 63259 01023 03579	FSK 200/1000	(AB-J)
F06	5-10	0620	15779	Wed	Russian diplo/intel. 11166 40122 63259 01023 03579	FSK 200/1000	(AB-J)
F06	5-10	0700	10541	Wed	Russian diplo/intel. 11166 70202 62547 04025 02339	FSK 200/1000	(AB)
F06	5-10	0710	8113	Wed	Russian diplo/intel. 11166 70202 62547 04025 02339	FSK 200/1000	(AB-RUS)
F06	5-10	0720	6791	Wed	Russian diplo/intel. 11166 70202 62547 04025 02339	FSK 200/1000	(AB-RUS)
F06	5-10	1200	11173	Wed	Russian diplo/intel. 11166 70202 62547 04025 02339	FSK 200/1000	(AB)
F06	5-10	1210	9246	Wed	Russian diplo/intel. 11166 70202 62547 04025 02339	FSK 200/1000	(AB-RUS)
F06	5-10	1220	7611	Wed	Russian diplo/intel. 11166 70202 62547 04025 02339	FSK 200/1000	(AB-RUS)
F06	6-10	0600	19268	Thu	Russian diplo/intel. 11166 40122 63259 01023 03579	FSK 200/1000	(AB-J)
F06	6-10	0610	17548	Thu	Russian diplo/intel. 11166 40122 63259 01023 03579	FSK 200/1000	(AB-J)
F06	6-10	0620	15779	Thu	Russian diplo/intel. 11166 40122 63259 01023 03579	FSK 200/1000	(AB-J)
F06	6-10	0700	10541	Thu	Russian diplo/intel. 11166 70202 95137 05026 02119 and 11166 70202 15493 05027 01819	FSK 200/1000	(AB)
F06	6-10	0710	8113	Thu	Russian diplo/intel. 11166 70202 95137 05026 02119 and 11166 70202 15493 05027 01819	FSK 200/1000	(AB-RUS)
F06	6-10	0720	6791	Thu	Russian diplo/intel. 11166 70202 95137 05026 02119 and 11166 70202 15493 05027 01819	FSK 200/1000	(AB-RUS)
F06	6-10	1200	11173	Thu	Russian diplo/intel. 11166 70202 95137 05026 02119 and 11166 70202 15493 05027 01819	FSK 200/1000	(AB)
F06	6-10	1210	9246	Thu	Russian diplo/intel. 11166 70202 95137 05026 02119 and 11166 70202 15493 05027 01819	FSK 200/1000	(AB-RUS)
F06	6-10	1220	7611	Thu	Russian diplo/intel. 11166 70202 95137 05026 02119 and 11166 70202 15493 05027 01819	FSK 200/1000	(AB-RUS)
F06	7-10	0700	10541	Fri	Russian diplo/intel. 11166 70202 97531 07082 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	7-10	0710	8113	Fri	Russian diplo/intel. 11166 70202 97531 07082 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS)
F06	7-10	0720	6791	Fri	Russian diplo/intel. 11166 70202 97531 07082 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS)
F06	9-10	1530	12189	Sun	Russian diplo/intel. 11166 10053 54231 09001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	9-10	1540	10734	Sun	Russian diplo/intel. 11166 10053 54231 09001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	9-10	1550	9129	Sun	Russian diplo/intel. 11166 10053 54231 09001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	10-10	0700	10541	Mon	Russian diplo/intel. 11166 70202 25476 07028 02639	FSK 200/1000	(AB)
F06	10-10	0710	8113	Mon	Russian diplo/intel. 11166 70202 25476 07028 02639	FSK 200/1000	(AB-RUS)
F06	10-10	0720	6791	Mon	Russian diplo/intel. 11166 70202 25476 07028 02639	FSK 200/1000	(AB-RUS)
F06	10-10	1200	11173	Mon	Russian diplo/intel. 11166 70202 25476 07028 02639	FSK 200/1000	(AB)
F06	10-10	1210	9246	Mon	Russian diplo/intel. 11166 70202 25476 07028 02639	FSK 200/1000	(AB-RUS)
F06	10-10	1220	7611	Mon	Russian diplo/intel. 11166 70202 25476 07028 02639	FSK 200/1000	(AB-RUS)
F06	11-10	0030	9489	Tue	Russian diplo/intel. 11166 60070 75319 11001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	11-10	0040	8133	Tue	Russian diplo/intel. 11166 60070 75319 11001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	11-10	0050	7318	Tue	Russian diplo/intel. 11166 60070 75319 11001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	11-10	0700	10541	Tue	Russian diplo/intel. 11166 70202 42318 10029 01599 and 11166 70202 24815 10030 01839	FSK 200/1000	(AB)
F06	11-10	0710	8113	Tue	Russian diplo/intel. 11166 70202 42318 10029 01599 and 11166 70202 24815 10030 01839	FSK 200/1000	(AB-RUS)
F06	11-10	0720	6791	Tue	Russian diplo/intel. 11166 70202 42318 10029 01599 and 11166 70202 24815 10030 01839	FSK 200/1000	(AB-RUS)
F06	11-10	1200	11173	Tue	Russian diplo/intel. 11166 70202 42318 10029 01599 and 11166 70202 24815 10030 01839	FSK 200/1000	(AB)



F06	11-10	1210	9246	Tue	Russian diplo/intel. 11166 70202 42318 10029 01599 and 11166 70202 24815 10030 01839	FSK 200/1000	(AB-RUS)
F06	11-10	1220	7611	Tue	Russian diplo/intel. 11166 70202 42318 10029 01599 and 11166 70202 24815 10030 01839	FSK 200/1000	(AB-RUS)
F06	11-10	1250	10297	Tue	Russian diplo/intel. 11166 30154 12356 10088 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS)
F06	11-10	1650	12215	Tue	Russian diplo/intel. 11166 10053 25877 11001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	11-10	1700	10814	Tue	Russian diplo/intel. 11166 10053 25877 11001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	11-10	1710	9046	Tue	Russian diplo/intel. 11166 10053 25877 11001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	12-10	0600	19268	Wed	Russian diplo/intel. 11166 40122 84725 08024 03029 and 11166 40122 95174 08025 02649	FSK 200/1000	(AB-RUS)
F06	12-10	0610	17548	Wed	Russian diplo/intel. 11166 40122 84725 08024 03029 and 11166 40122 95174 08025 02649	FSK 200/1000	(AB-J)
F06	12-10	0620	15779	Wed	Russian diplo/intel. 11166 40122 84725 08024 03029 and 11166 40122 95174 08025 02649	FSK 200/1000	(AB-J)
F06	12-10	0700	10541	Wed	Russian diplo/intel. 11166 70202 14758 11031 02199	FSK 200/1000	(AB)
F06	12-10	0710	8113	Wed	Russian diplo/intel. 11166 70202 14758 11031 02199	FSK 200/1000	(AB-RUS)
F06	12-10	0720	6791	Wed	Russian diplo/intel. 11166 70202 14758 11031 02199	FSK 200/1000	(AB-RUS)
F06	12-10	0930	20026	Wed	Russian diplo/intel. 11166 40023 78541 12001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	12-10	0945	18269	Wed	Russian diplo/intel. 11166 40023 78541 12001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	12-10	1200	11173	Wed	Russian diplo/intel. 11166 70202 14758 11031 02199	FSK 200/1000	(AB)
F06	12-10	1210	9246	Wed	Russian diplo/intel. 11166 70202 14758 11031 02199	FSK 200/1000	(AB-RUS)
F06	12-10	1220	7611	Wed	Russian diplo/intel. 11166 70202 14758 11031 02199	FSK 200/1000	(AB-RUS)
F06	13-10	0600	19268	Thu	Russian diplo/intel. 11166 40122 84725 08024 03029 and 11166 40122 95174 08025 02649	FSK 200/1000	(AB-RUS)
F06	13-10	0610	17548	Thu	Russian diplo/intel. 11166 40122 84725 08024 03029 and 11166 40122 95174 08025 02649	FSK 200/1000	(AB-J)
F06	13-10	0620	15779	Thu	Russian diplo/intel. 11166 40122 84725 08024 03029 and 11166 40122 95174 08025 02649	FSK 200/1000	(AB-J)
F06	13-10	0700	10541	Thu	Russian diplo/intel. 11166 70202 41567 12032 01499 and 11166 70202 42938 12033 02039	FSK 200/1000	(AB)
F06	13-10	0710	8113	Thu	Russian diplo/intel. 11166 70202 41567 12032 01499 and 11166 70202 42938 12033 02039	FSK 200/1000	(AB-RUS)
F06	13-10	0720	6791	Thu	Russian diplo/intel. 11166 70202 41567 12032 01499 and 11166 70202 42938 12033 02039	FSK 200/1000	(AB-RUS)
F06	13-10	1200	11173	Thu	Russian diplo/intel. 11166 70202 41567 12032 01499 and 11166 70202 42938 12033 02039	FSK 200/1000	(AB)
F06	13-10	1210	9246	Thu	Russian diplo/intel. 11166 70202 41567 12032 01499 and 11166 70202 42938 12033 02039	FSK 200/1000	(AB-RUS)
F06	13-10	1220	7611	Thu	Russian diplo/intel. 11166 70202 41567 12032 01499 and 11166 70202 42938 12033 02039	FSK 200/1000	(AB-RUS)
F06	14-10	0700	10541	Fri	Russian diplo/intel. 11166 70202 12458 14034 00049 00000 00000 00000 00000	FSK 200/1000	(AB/XAH)
F06	14-10	0710	8113	Fri	Russian diplo/intel. 11166 70202 12458 14034 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS/XAH)
F06	14-10	0720	6791	Fri	Russian diplo/intel. 11166 70202 12458 14034 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS/XAH)
F06	16-10	1530	12189	Sun	Russian diplo/intel. 11166 10053 75319 16001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	16-10	1540	10734	Sun	Russian diplo/intel. 11166 10053 75319 16001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	16-10	1550	9129	Sun	Russian diplo/intel. 11166 10053 75319 16001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	17-10	0400	6848	Mon	Russian diplo/intel. 11166 70059 78431 17001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	17-10	0410	5433	Mon	Russian diplo/intel. 11166 70059 78431 17001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	17-10	0420	4840	Mon	Russian diplo/intel. 11166 70059 78431 17001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	17-10	0700	10541	Mon	Russian diplo/intel. 11166 70202 96358 14034 02539	FSK 200/1000	(AB)
F06	17-10	0710	8113	Mon	Russian diplo/intel. 11166 70202 96358 14034 02539	FSK 200/1000	(AB-RUS)
F06	17-10	0720	6791	Mon	Russian diplo/intel. 11166 70202 96358 14034 02539	FSK 200/1000	(AB-RUS)
F06	17-10	1200	11173	Mon	Russian diplo/intel. 11166 70202 96358 14034 02539	FSK 200/1000	(AB)
F06	17-10	1210	9246	Mon	Russian diplo/intel. 11166 70202 96358 14034 02539	FSK 200/1000	(AB-RUS)
F06	17-10	1220	7611	Mon	Russian diplo/intel. 11166 70202 96358 14034 02539	FSK 200/1000	(AB-RUS)
F06	18-10	0030	9489	Tue	Russian diplo/intel. 11166 60070 54231 18001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)

F06	18-10	0040	8133	Tue	Russian diplo/intel. 11166 60070 54231 18001 00049 00000 00000 00000 00000 4181 17-10-2022 0135 F03j FSK-4 100Bd/400Hz/448bp (AB) Polish intel.	FSK 200/1000	(AB)
F06	18-10	0050	7318	Tue	Russian diplo/intel. 11166 60070 54231 18001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	18-10	0700	10541	Tue	Russian diplo/intel. 11166 70202 25468 17035 01539 and 11166 70202 45682 17036 01739	FSK 200/1000	(AB)
F06	18-10	0710	8113	Tue	Russian diplo/intel. 11166 70202 25468 17035 01539 and 11166 70202 45682 17036 01739	FSK 200/1000	(AB-RUS)
F06	18-10	0720	6791	Tue	Russian diplo/intel. 11166 70202 25468 17035 01539 and 11166 70202 45682 17036 01739	FSK 200/1000	(AB-RUS)
F06	18-10	1200	11173	Tue	Russian diplo/intel. 11166 70202 25468 17035 01539 and 11166 70202 45682 17036 01739	FSK 200/1000	(AB/MPJ)
F06	18-10	1210	9246	Tue	Russian diplo/intel. 11166 70202 25468 17035 01539 and 11166 70202 45682 17036 01739	FSK 200/1000	(AB-RUS/MPJ)
F06	18-10	1220	7611	Tue	Russian diplo/intel. 11166 70202 25468 17035 01539 and 11166 70202 45682 17036 01739	FSK 200/1000	(AB-RUS/MPJ)
F06	18-10	1240	12159	Tue	Russian diplo/intel. 11166 30154 25874 18069 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS)
F06	18-10	1250	10297	Tue	Russian diplo/intel. 11166 30154 25874 18069 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS)
F06	18-10	1650	12215	Tue	Russian diplo/intel. 11166 10053 78451 18001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	18-10	1700	10814	Tue	Russian diplo/intel. 11166 10053 78451 18001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	18-10	1710	9046	Tue	Russian diplo/intel. 11166 10053 78451 18001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	19-10	0600	19268	Wed	Russian diplo/intel. 11166 40122 12365 19022 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS)
F06	19-10	0610	17548	Wed	Russian diplo/intel. 11166 40122 12365 19022 00049 00000 00000 00000 00000	FSK 200/1000	(AB-J)
F06	19-10	0620	15779	Wed	Russian diplo/intel. 11166 40122 12365 19022 00049 00000 00000 00000 00000	FSK 200/1000	(AB-J)
F06	19-10	0700	10541	Wed	Russian diplo/intel. 11166 70202 24685 18037 02739	FSK 200/1000	(AB)
F06	19-10	0710	8113	Wed	Russian diplo/intel. 11166 70202 24685 18037 02739	FSK 200/1000	(AB-RUS)
F06	19-10	0720	6791	Wed	Russian diplo/intel. 11166 70202 24685 18037 02739	FSK 200/1000	(AB-RUS)
F06	19-10	1200	11173	Wed	Russian diplo/intel. 11166 70202 24685 18037 02739	FSK 200/1000	(AB)
F06	19-10	1210	9246	Wed	Russian diplo/intel. 11166 70202 24685 18037 02739	FSK 200/1000	(AB-RUS)
F06	19-10	1220	7611	Wed	Russian diplo/intel. 11166 70202 24685 18037 02739	FSK 200/1000	(AB-RUS)
F06	20-10	0700	10541	Thu	Russian diplo/intel. 11166 70202 32958 19038 01639 and 11166 70202 18742 19039 01819	FSK 200/1000	(AB)
F06	20-10	0710	8113	Thu	Russian diplo/intel. 11166 70202 32958 19038 01639 and 11166 70202 18742 19039 01819	FSK 200/1000	(AB-RUS)
F06	20-10	0720	6791	Thu	Russian diplo/intel. 11166 70202 32958 19038 01639 and 11166 70202 18742 19039 01819	FSK 200/1000	(AB-RUS)
F06	20-10	1200	11173	Thu	Russian diplo/intel. 11166 70202 32958 19038 01639 and 11166 70202 18742 19039 01819	FSK 200/1000	(AB/MPJ)
F06	20-10	1210	9246	Thu	Russian diplo/intel. 11166 70202 32958 19038 01639 and 11166 70202 18742 19039 01819	FSK 200/1000	(AB-RUS/MPJ)
F06	20-10	1220	7611	Thu	Russian diplo/intel. 11166 70202 32958 19038 01639 and 11166 70202 18742 19039 01819	FSK 200/1000	(AB-RUS/MPJ)
F06	21-10	0700	10541	Fri	Russian diplo/intel. 11166 70202 58932 21037 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	21-10	0710	8113	Fri	Russian diplo/intel. 11166 70202 58932 21037 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS)
F06	21-10	0720	6791	Fri	Russian diplo/intel. 11166 70202 58932 21037 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS)
F06	23-10	1530	12189	Sun	Russian diplo/intel. 11166 10053 40672 23001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	23-10	1540	10734	Sun	Russian diplo/intel. 11166 10053 40672 23001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	23-10	1550	9129	Sun	Russian diplo/intel. 11166 10053 40672 23001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	24-10	0700	10541	Mon	Russian diplo/intel. 11166 70202 85417 21040 02659	FSK 200/1000	(AB)
F06	24-10	0710	8113	Mon	Russian diplo/intel. 11166 70202 85417 21040 02659	FSK 200/1000	(AB-RUS)
F06	24-10	0720	6791	Mon	Russian diplo/intel. 11166 70202 85417 21040 02659	FSK 200/1000	(AB-RUS)
F06	24-10	1200	11173	Mon	Russian diplo/intel. 11166 70202 85417 21040 02659	FSK 200/1000	(AB/MPJ)
F06	24-10	1210	9246	Mon	Russian diplo/intel. 11166 70202 85417 21040 02659	FSK 200/1000	(AB-RUS/MPJ)
F06	24-10	1220	7611	Mon	Russian diplo/intel. 11166 70202 85417 21040 02659	FSK 200/1000	(AB-RUS/MPJ)
F06	25-10	0030	9489	Tue	Russian diplo/intel. 11166 60070 46825 25001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)

F06	25-10	0040	8133	Tue	Russian diplo/intel. 11166 60070 46825 25001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	25-10	0050	7318	Tue	Russian diplo/intel. 11166 60070 46825 25001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	25-10	0700	10541	Tue	Russian diplo/intel. 11166 70202 36958 24041 02119 and 11166 70202 36958 24041 02119	FSK 200/1000	(AB)
F06	25-10	0710	8113	Tue	Russian diplo/intel. 11166 70202 36958 24041 02119 and 11166 70202 36958 24041 02119	FSK 200/1000	(AB-RUS)
F06	25-10	0720	6791	Tue	Russian diplo/intel. 11166 70202 36958 24041 02119 and 11166 70202 36958 24041 02119	FSK 200/1000	(AB-RUS)
F06	25-10	1200	11173	Tue	Russian diplo/intel. 11166 70202 36958 24041 02119 and 11166 70202 36958 24041 02119	FSK 200/1000	(AB)
F06	25-10	1210	9246	Tue	Russian diplo/intel. 11166 70202 36958 24041 02119 and 11166 70202 36958 24041 02119	FSK 200/1000	(AB-RUS)
F06	25-10	1220	7611	Tue	Russian diplo/intel. 11166 70202 36958 24041 02119 and 11166 70202 36958 24041 02119	FSK 200/1000	(AB-RUS)
F06	25-10	1650	12215	Tue	Russian diplo/intel. 11166 10053 23658 25001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	25-10	1700	10814	Tue	Russian diplo/intel. 11166 10053 23658 25001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	25-10	1710	9046	Tue	Russian diplo/intel. 11166 10053 23658 25001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	26-10	0600	19268	Wed	Russian diplo/intel. 11166 40122 72486 22026 03599	FSK 200/1000	(AB-RUS)
F06	26-10	0610	17548	Wed	Russian diplo/intel. 11166 40122 72486 22026 03599	FSK 200/1000	(AB-J)
F06	26-10	0620	15779	Wed	Russian diplo/intel. 11166 40122 72486 22026 03599	FSK 200/1000	(AB-J)
F06	26-10	0700	10541	Wed	Russian diplo/intel. 11166 70202 85417 25043 02759	FSK 200/1000	(AB)
F06	26-10	0710	8113	Wed	Russian diplo/intel. 11166 70202 85417 25043 02759	FSK 200/1000	(AB-RUS)
F06	26-10	0720	6791	Wed	Russian diplo/intel. 11166 70202 85417 25043 02759	FSK 200/1000	(AB-RUS)
F06	26-10	0930	20026	Wed	Russian diplo/intel. 11166 40023 75269 26001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	26-10	0945	18269	Wed	Russian diplo/intel. 11166 40023 75269 26001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	26-10	1200	11173	Wed	Russian diplo/intel. 11166 70202 85417 25043 02759	FSK 200/1000	(AB)
F06	26-10	1210	9246	Wed	Russian diplo/intel. 11166 70202 85417 25043 02759	FSK 200/1000	(AB-RUS)
F06	26-10	1220	7611	Wed	Russian diplo/intel. 11166 70202 85417 25043 02759	FSK 200/1000	(AB-RUS)
F06	27-10	0600	19268	Thu	Russian diplo/intel. 11166 40122 72486 22026 03599	FSK 200/1000	(AB-KOR)
F06	27-10	0610	17548	Thu	Russian diplo/intel. 11166 40122 72486 22026 03599	FSK 200/1000	(AB-J)
F06	27-10	0620	15779	Thu	Russian diplo/intel. 11166 40122 72486 22026 03599	FSK 200/1000	(AB-J)
F06	27-10	0700	10541	Thu	Russian diplo/intel. 11166 70202 15378 26044 01839 and 11166 70202 34815 26045 02079	FSK 200/1000	(AB)
F06	27-10	0710	8113	Thu	Russian diplo/intel. 11166 70202 15378 26044 01839 and 11166 70202 34815 26045 02079	FSK 200/1000	(AB-RUS)
F06	27-10	0720	6791	Thu	Russian diplo/intel. 11166 70202 15378 26044 01839 and 11166 70202 34815 26045 02079	FSK 200/1000	(AB-RUS)
F06	27-10	1200	11173	Thu	Russian diplo/intel. 11166 70202 15378 26044 01839 and 11166 70202 34815 26045 02079	FSK 200/1000	(AB)
F06	27-10	1210	9246	Thu	Russian diplo/intel. 11166 70202 15378 26044 01839 and 11166 70202 34815 26045 02079	FSK 200/1000	(AB-RUS)
F06	27-10	1220	7611	Thu	Russian diplo/intel. 11166 70202 15378 26044 01839 and 11166 70202 34815 26045 02079	FSK 200/1000	(AB-RUS)
F06	28-10	0700	10541	Fri	Russian diplo/intel. 11100 70202 64825 28051 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	28-10	0710	8113	Fri	Russian diplo/intel. 11100 70202 64825 28051 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS)
F06	28-10	0720	6791	Fri	Russian diplo/intel. 11100 70202 64825 28051 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS)
F06	30-10	1530	12189	Sun	Russian diplo/intel. 11166 10053 75139 30001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	30-10	1540	10734	Sun	Russian diplo/intel. 11166 10053 75139 30001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	30-10	1550	9129	Sun	Russian diplo/intel. 11166 10053 75139 30001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	31-10	0700	10541	Mon	Russian diplo/intel. 11166 70202 46851 28046 02139	FSK 200/1000	(AB)
F06	31-10	0710	8113	Mon	Russian diplo/intel. 11166 70202 46851 28046 02139	FSK 200/1000	(AB-RUS)
F06	31-10	0720	6791	Mon	Russian diplo/intel. 11166 70202 46851 28046 02139	FSK 200/1000	(AB-RUS)
F06	31-10	1200	11173	Mon	Russian diplo/intel. 11166 70202 46851 28046 02139	FSK 200/1000	(AB)
F06	31-10	1210	9246	Mon	Russian diplo/intel. 11166 70202 46851 28046 02139	FSK 200/1000	(AB-RUS)

<b>F06</b>	31-10	1220	7611	Mon	Russian diplo/intel. 11166 70202 46851 28046 02139	FSK 200/1000	(AB-RUS)
<b>F06a</b>	1-10	1500	14621	Sat	Russian diplo/intel. File 04440	FSK 200/1000	(AB)
<b>F06a</b>	1-10	1515	11057	Sat	Russian diplo/intel. File 04440	FSK 200/1000	(AB)
<b>F06a</b>	1-10	1530	9369	Sat	Russian diplo/intel. File 04440	FSK 200/1000	(AB)
<b>F06a</b>	2-10	1500	14621	Sun	Russian diplo/intel. File 04440	FSK 200/1000	(AB)
<b>F06a</b>	2-10	1515	11057	Sun	Russian diplo/intel. File 04440	FSK 200/1000	(AB/XAH)
<b>F06a</b>	2-10	1530	9369	Sun	Russian diplo/intel. File 04440	FSK 200/1000	(AB/XAH)
<b>F06a</b>	6-10	0400	5845	Thu	Russian diplo/intel. File 04448	FSK 200/1000	(AB)
<b>F06a</b>	6-10	0400	5845	Thu	Russian diplo/intel. File 04448	FSK 200/1000	(AB)
<b>F06a</b>	6-10	0415	5249	Thu	Russian diplo/intel. File 04448	FSK 200/1000	(AB)
<b>F06a</b>	6-10	0415	5249	Thu	Russian diplo/intel. File 04448	FSK 200/1000	(AB)
<b>F06a</b>	6-10	0430	4525	Thu	Russian diplo/intel. File 04448	FSK 200/1000	(AB)
<b>F06a</b>	6-10	0430	4525	Thu	Russian diplo/intel. File 04448	FSK 200/1000	(AB)
<b>F06a</b>	8-10	1500	14621	Sat	Russian diplo/intel. File 04441	FSK 200/1000	(AB)
<b>F06a</b>	8-10	1515	11057	Sat	Russian diplo/intel. File 04441	FSK 200/1000	(AB)
<b>F06a</b>	8-10	1530	9369	Sat	Russian diplo/intel. File 04441	FSK 200/1000	(AB)
<b>F06a</b>	9-10	1500	14621	Sun	Russian diplo/intel. File 04441	FSK 200/1000	(AB)
<b>F06a</b>	9-10	1515	11057	Sun	Russian diplo/intel. File 04441	FSK 200/1000	(AB)
<b>F06a</b>	9-10	1530	9369	Sun	Russian diplo/intel. File 04441	FSK 200/1000	(AB)
<b>F06a</b>	11-10	1533	9159	Tue	File: 80159-~1.TXT. Header: 11100 80159 23069 09134 03489	FSK 200/1000	(linkz)
<b>F06a</b>	11-10	1540	7569	Tue	File: 80159-~1.TXT. Header: 11100 80159 23069 09134 03489	FSK 200/1000	(linkz)
<b>F06a</b>	13-10	0400	5845	Thu	Russian diplo/intel. File 44449	FSK 200/1000	(AB)
<b>F06a</b>	13-10	0415	5249	Thu	Russian diplo/intel. File 44449	FSK 200/1000	(AB)
<b>F06a</b>	13-10	0430	4525	Thu	Russian diplo/intel. File 44449	FSK 200/1000	(AB)
<b>F06a</b>	14-10	0400	5845	Fri	Russian diplo/intel. File 44449	FSK 200/1000	(AB)
<b>F06a</b>	14-10	0415	5249	Fri	Russian diplo/intel. File 44449	FSK 200/1000	(AB)
<b>F06a</b>	14-10	0430	4525	Fri	Russian diplo/intel. File 44449	FSK 200/1000	(AB)
<b>F06a</b>	15-10	1500	14621	Sat	Russian diplo/intel. File 04442	FSK 200/1000	(AB/XAH)
<b>F06a</b>	15-10	1515	11057	Sat	Russian diplo/intel. File 04442	FSK 200/1000	(AB/XAH)
<b>F06a</b>	15-10	1530	9369	Sat	Russian diplo/intel. File 04442	FSK 200/1000	(AB/XAH)
<b>F06a</b>	16-10	1500	14621	Sun	Russian diplo/intel. File 04442	FSK 200/1000	(AB/MPJ)
<b>F06a</b>	16-10	1515	11057	Sun	Russian diplo/intel. File 04442	FSK 200/1000	(AB/MPJ)
<b>F06a</b>	16-10	1530	9369	Sun	Russian diplo/intel. File 04442	FSK 200/1000	(AB/MPJ)
<b>F06a</b>	20-10	0400	5845	Thu	Russian diplo/intel. File 44450	FSK 200/1000	(AB)
<b>F06a</b>	20-10	0415	5249	Thu	Russian diplo/intel. File 44450	FSK 200/1000	(AB)
<b>F06a</b>	20-10	0430	4525	Thu	Russian diplo/intel. File 44450	FSK 200/1000	(AB)
<b>F06a</b>	21-10	0400	5845	Fri	Russian diplo/intel. File 44450	FSK 200/1000	(AB)
<b>F06a</b>	21-10	0415	5249	Fri	Russian diplo/intel. File 44450	FSK 200/1000	(AB)
<b>F06a</b>	21-10	0430	4525	Fri	Russian diplo/intel. File 44450	FSK 200/1000	(AB)
<b>F06a</b>	22-10	1500	14621	Sat	Russian diplo/intel. File 04443	FSK 200/1000	(AB/MPJ)
<b>F06a</b>	22-10	1515	11057	Sat	Russian diplo/intel. File 04443	FSK 200/1000	(AB/MPJ)
<b>F06a</b>	22-10	1530	9369	Sat	Russian diplo/intel. File 04443	FSK 200/1000	(AB/MPJ)

F06a	23-10	1500	14621	Sun	Russian diplo/intel. File 04443	FSK 200/1000	(AB/MPJ)
F06a	23-10	1515	11057	Sun	Russian diplo/intel. File 04443	FSK 200/1000	(AB/MPJ)
F06a	23-10	1530	9369	Sun	Russian diplo/intel. File 04443	FSK 200/1000	(AB/MPJ)
F06a	27-10	0400	5845	Thu	Russian diplo/intel. File 44451	FSK 200/1000	(AB)
F06a	27-10	0415	5249	Thu	Russian diplo/intel. File 44451	FSK 200/1000	(AB)
F06a	27-10	0430	4525	Thu	Russian diplo/intel. File 44451	FSK 200/1000	(AB)
F06a	28-10	0400	5845	Fri	Russian diplo/intel. File 44451	FSK 200/1000	(AB)
F06a	28-10	0415	5249	Fri	Russian diplo/intel. File 44451	FSK 200/1000	(AB)
F06a	28-10	0430	4525	Fri	Russian diplo/intel. File 44451	FSK 200/1000	(AB)
F06a	29-10	0615	12142	Sat	Russian diplo/intel. 143 blocks, 1 msg, no proper decode	FSK 200/1000	(PY)
F06a	29-10	0630	11456	Sat	Russian diplo/intel. 143 blocks, 1 msg, no proper decode	FSK 200/1000	(PY)
F06a	29-10	1500	14621	Sat	Russian diplo/intel. File 44444	FSK 200/1000	(AB)
F06a	29-10	1515	11057	Sat	Russian diplo/intel. File 44444	FSK 200/1000	(AB)
F06a	29-10	1530	9369	Sat	Russian diplo/intel. File 44444	FSK 200/1000	(AB)
F06a	30-10	1500	14621	Sun	Russian diplo/intel. File 44444	FSK 200/1000	(AB)
F06a	30-10	1515	11057	Sun	Russian diplo/intel. File 44444	FSK 200/1000	(AB)
F06a	30-10	1530	9369	Sun	Russian diplo/intel. File 44444	FSK 200/1000	(AB)
HM01	4-10	1700	11530	Tue	Carrier. Off after a couple of minutes	AM/WinDRM	(AB-USA)
HM01	5-10	1600	11435	Wed	21351 63642 70712 36055 42289 85331 Files: 82522135.TXT 24626364.TXT 50547071.F1C 27423605.TXT 67464228.TXT 36768533.F1G. Callsign: QWERTY01	AM/WinDRM	(AB-USA)
HM01	5-10	1730	11530	Wed	21351 63642 70712 36055 42289 85331	AM/WinDRM	(RR2)
HM01	6-10	1600	11435	Thu	21351 63642 70712 36055 42289 85331 (repeat of 5 Oct)	AM/WinDRM	(AB-USA)
HM01	6-10	1800	11530	Thu	21351 63642 70712 36055 42289 85331 (repeat of 5 Oct)	AM/WinDRM	(RR2)
HM01	7-10	1600	11435	Fri	Radio Habana Cuba. At 1604z HM01 already in progress. 21351 63642 70712 36055 42289 85331 (repeat of 5 Oct)	AM/WinDRM	(AB-USA)
HM01	7-10	1730	11530	Fri	21351 63642 70712 36055 42289 85331 (repeat of 5 Oct)	AM/WinDRM	(RR2)
HM01	8-10	1559	11435	Sat	21351 63642 70712 36055 42289 85331 (repeat of 5 Oct)	AM/WinDRM	(AB-USA)
HM01	8-10	1800	11635	Sat	21351 63642 70712 36055 42289 85331 (repeat of 5 Oct)	AM/WinDRM	(RR2)
HM01	9-10	1657	11530	Sun	21351 63642 70712 36055 42289 85331 (repeat of 5 Oct)	AM/WinDRM	(AB-USA)
HM01	10-10	1643	11435	Mon	i.p. 21351 63642 70712 36055 42289 85331 (repeat of 5 Oct)	AM/WinDRM	(AB-USA)
HM01	10-10	1700	11530	Mon	21351 63642 70712 36055 42289 85331 (repeat of 5 Oct)	AM/WinDRM	(RR2)
HM01	11-10	0823	11635	Tue	i.p. 21351 63642 70712 36055 42289 85331 (repeat of 5 Oct)	AM/WinDRM	(AB)
HM01	11-10	0930	11462	Tue	21351 63642 70712 36055 42289 85331 (repeat of 5 Oct)	AM/WinDRM	(AB)
HM01	11-10	1617	11435	Tue	i.p. 33852 73622 11271 50084 03638 14241 Files 84763385.TXT 72847362.TXT 24351127.TXT 50475008.F1C 61410363.TXT 46331424.TXT Callsign QWERTY01	AM/WinDRM	(AB-USA)
HM01	11-10	1700	11530	Tue	33852 73622 11271 50084 03638 14241	AM/WinDRM	(RR2)
HM01	12-10	1600	11435	Wed	33852 73622 11271 50084 03638 14241 (repeat of 11 Oct)	AM/WinDRM	(AB-USA/XAH)
HM01	12-10	1800	11635	Wed	33852 73622 11271 50084 03638 14241 (repeat of 11 Oct)	AM/WinDRM	(RR2)
HM01	13-10	1601	11435	Thu	33852 73622 11271 50084 03638 14241 (repeat of 11 Oct)	AM/WinDRM	(AB-USA)
HM01	13-10	1700	11530	Thu	33852 73622 11271 50084 03638 14241 (repeat of 11 Oct)	AM/WinDRM	(RR2)
HM01	14-10	1700	11530	Fri	33852 73622 11271 50084 03638 14241 (repeat of 11 Oct)	AM/WinDRM	(RR2)
HM01	14-10	1800	11635	Fri	33852 73622 11271 50084 03638 14241 (repeat of 11 Oct)	AM/WinDRM	(AB-USA)



HM01	15-10	1610	11435	Sat	i.p. 33852 73622 11271 50084 03638 14241 (repeat of 11 Oct)	AM/WinDRM	(AB-USA/RR2)
HM01	17-10	1604	11435	Mon	i.p. 33852 73622 11271 50084 03638 14241 (repeat of 11 Oct)	AM/WinDRM	(AB-USA)
HM01	17-10	1830	11635	Mon	33852 73622 11271 50084 03638 14241 (repeat of 11 Oct)	AM/WinDRM	(RR2)
HM01	18-10	1600	11435	Tue	33852 73622 11271 50084 03638 14241	AM/WinDRM	(AB-USA)
HM01	19-10	1600	11435	Wed	33852 73622 11271 50084 03638 14241 (repeat of 11 Oct)	AM/WinDRM	(AB-USA)
HM01	20-10	1552	11435	Thu	Radio Habana Cuba. Off at 1554z. 1559z: 33852 73622 11271 50084 03638 14241 (repeat of 11 Oct)	AM/WinDRM	(AB-USA)
HM01	20-10	1730	11530	Thu	33852 73622 11271 50084 03638 14241 (repeat of 11 Oct)	AM/WinDRM	(RR2)
HM01	21-10	1600	11435	Fri	33852 73622 11271 50084 03638 14241 (repeat of 11 Oct)	AM/WinDRM	(AB-USA)
HM01	22-10	1800	11635	Sat	33852 73622 11271 50084 03638 14241 (repeat of 11 Oct)	AM/WinDRM	(RR2)
HM01	23-10	1800	11635	Sun	33852 73622 11271 50084 03638 14241 (repeat of 11 Oct)	AM/WinDRM	(RR2)
HM01	24-10	1628	11435	Mon	33852 73622 11271 50084 03638 14241 (repeat of 11 Oct)	AM/WinDRM	(AB-USA)
HM01	25-10	1730	11530	Tue	33852 73622 11271 50084 03638 14241	AM/WinDRM	(AB-USA)
HM01	26-10	1559	11435	Wed	33852 73622 11271 50084 03638 14241 (repeat of 11 Oct)	AM/WinDRM	(AB-USA)
HM01	27-10	1625	11435	Thu	33852 73622 11271 50084 03638 14241 (repeat of 11 Oct)	AM/WinDRM	(AB-USA)
HM01	27-10	1830	11635	Thu	33852 73622 11271 50084 03638 14241 (repeat of 11 Oct)	AM/WinDRM	(RR2)
HM01	28-10	1600	11435	Fri	No transmission	AM/WinDRM	(AB-USA)
HM01	28-10	1630	11435	Fri	No transmission	AM/WinDRM	(AB-USA)
HM01	28-10	1700	11530	Fri	33852 73622 11271 50084 03638 14241 (repeat of 11 Oct)	AM/WinDRM	(AB-USA)
HM01	28-10	2130	11635	Fri	33852 73622 11271 50084 03638 14241 (repeat of 11 Oct)	AM/WinDRM	(RR2)
HM01	29-10	1557	11435	Sat	Radio Habana Cuba for 1 minute. At 1559z: 33852 73622 11271 50084 03638 14241 (repeat of 11 Oct)	AM/WinDRM	(RR2)
HM01	30-10	1609	11435	Sun	i.p. 33852 73622 11271 50084 03638 14241 (repeat of 11 Oct)	AM/WinDRM	(AB-USA)
HM01	30-10	1730	11530	Sun	33852 73622 11271 50084 03638 14241 (repeat of 11 Oct)	AM/WinDRM	(RR2)
HM01	31-10	1636	11435	Mon	33852 73622 11271 50084 03638 14241 (repeat of 11 Oct)	AM/WinDRM	(AB-USA)
HM01	31-10	1805	11635	Mon	33852 73622 11271 50084 03638 14241 (repeat of 11 Oct)	AM/WinDRM	(RR2)
M01	1-10	1500	6260	Sat	463 272 272 30 30 == 93827 01921 12871 ... 01837 18231 98194 == 272 272 30 30 000	CW	(AB-BLR)
M01	2-10	0700	6510	Sun	463 131 131 30 30 == 81926 01827 02817 ... 92836 91736 19384 == 131 131 30 30 000	CW	(AB-BLR)
M01	4-10	1800	5475	Tue	463 404 404 30 30 == 53607 10290 30298 ... 10298 30445 43564 == 404 404 30 30 000	CW	(AB-BLR/MPJ)
M01	6-10	1800	5475	Thu	463 230 923 30 30 == 98 7 98098798 57647 65650 ... 24311 35343 65465 == 923 923 30 30 000	CW	(AB-BLR/MPJ)
M01	6-10	2000	5020	Thu	463 976 976 30 30 == 98798 54543 65654 ... 19877 59876 34321 == 976 976 30 30 000	CW	(AB)
M01	8-10	1500	6260	Sat	463 144 144 30 30 == 63289 90389 07329 ... 90923 45367 67348 == 144 144 30 30 000	CW	(AB/MPJ-POL)
M01	9-10	0700	6510	Sun	463 720 720 30 30 == 73546 20398 36457 ... 67489 00127 89364 720 720 30 30 000	CW	(AB-POL)
M01	11-10	1800	5475	Tue	463 805 805 30 30 == 10928 37621 74658 ... 74362 61543153 1048 194 == 805 805 30 30 000	CW	(AB/MPJ)
M01	11-10	2000	5020	Tue	463 717 717 30 30 == 73625 61736 84930 ... 47252 53423 74859 == 717 717 30 30 000	CW	(AB)
M01	13-10	1800	5475	Thu	463 125 125 30 30 == 19471 76847 17362 ... 31288 38112 01769 == 125 125 30 30 000	CW	(AB-BLR/MPJ)
M01	13-10	2000	5020	Thu	463 654 654 30 30 == 93812 01928 21098 ...43091 76175 91746 == 654 654 30 30 000	CW	(AB)
M01	15-10	1500	6260	Sat	463 981 981 30 30 == 10958 47362 64739 ...	CW	(AB/XAH)
M01	16-10	0701	6510	Sun	463 351 351 30 30 19234 74632 85746 ... 64532 61541 64518 351 351 30 30 000	CW	(AB-BLR)
M01	18-10	1800	5475	Tue	463 871 871 30 30 == 34728 90347 64789 ... 53647 89236 01823 == 871 861 30 30 000	CW	(AB/MPJ)
M01	18-10	2000	5020	Tue	463 102 102 30 30 == 64739 20198 46389 ... 74658 6 83645 8937497 == 102 102 30 30 000 errors in msg	CW	(AB)

M01	20-10	1800	5475	Thu	463 932 932 30 30 = = 92817 63728 49387 ... 10928 37261 84709 = = 932 932 30 30 000	CW	(AB-BLR/MPJ)
M01	20-10	2000	5020	Thu	463 655 655 30 30 = = 09187 21876 28739 ... 91635 42154 72615 = = 655 655 30 30 000	CW	(AB)
M01	22-10	1500	6260	Sat	463 715 715 30 30 85671 90451 65821 ... 46912 57822 90423 715 715 30 30 000	CW	(AB)
M01	23-10	0700	6510	Sun	463 239 239 30 30 = = 71921 46719 47823 ... 47182 90471 09342 = = 239 239 30 30 000	CW	(AB-BLR)
M01	25-10	1800	5475	Tue	463 256 256 30 30 83461 45671 84912 ... 45367 36101 45189 256 256 30 30 000	CW	(AB/MPJ)
M01	25-10	2000	5020	Tue	463 512 512 30 30 58931 59032 56432 ... 87678 13460 45236 512 512 30 30 000	CW	(AB)
M01	27-10	1800	5475	Thu	463 765 765 30 30 = = 48738 89695 34901 ... 98609 04974 95843 = = 765 765 30 30 000	CW	(AB)
M01	27-10	2000	5020	Thu	463 271 271 30 30 = = 85934 01831 02817 ... 01958 (01957) 79843 11987 = = 271 271 30 30 000	CW	(AB)
M01	29-10	1500	6260	Sat	463 172 172 30 30 = = 74636 91873 26354 ... 17365 01965 17431 = = 172 172 30 30 000	CW	(AB)
M01	30-10	0700	6510	Sun	463 647 647 30 30 = = 93827 93818 01983 ... 10937 48398 12987 = = 647 647 30 30 000	CW	(AB)
M12	1-10	1800	11435	Sat	938 938 938 1 5888 77 5888 77 69185 55388 57249 ... 97867 58821 24854 000 000	CW	(AB)
M12	1-10	1820	10598	Sat	938 938 938 1 5888 77 5888 77 69185 55388 57249 ... 97867 58821 24854 000 000	CW	(AB)
M12	1-10	1840	9327	Sat	938 938 938 1 5888 77 5888 77 69185 55388 57249 ... 97867 58821 24854 000 000	CW	(AB)
M12	1-10	2100	5794	Sat	770 770 770 1 9537 130 9537 130 74681 19916 42939 ... 15850 93750 21526 000 000	CW	(AB)
M12	1-10	2120	6794	Sat	770 770 770 1 9537 130 9537 130 74681 19916 42939 ... 15850 93750 21526 000 000	CW	(AB)
M12	1-10	2140	8094	Sat	770 770 770 1 9537 130 9537 130 74681 19916 42939 ... 15850 93750 21526 000 000	CW	(AB)
M12	2-10	0800	17441	Sun	462 462 462 000	CW	(AB)
M12	2-10	0820	18641	Sun	462 462 462 000	CW	(AB)
M12	3-10	1230	12205	Mon	973 973 973 1 7705 60 7705 60 80200 76537 07861 ... 26334 95937 22703 000 000	CW	(AB)
M12	3-10	1250	13559	Mon	973 973 973 1 7705 60 7705 60 80200 76537 07861 ... 26334 95937 22703 000 000	CW	(AB)
M12	3-10	1310	14728	Mon	973 973 973 1 7705 60 7705 60 80200 76537 07861 ... 26334 95937 22703 000 000	CW	(AB)
M12	3-10	1400	20168	Mon	142 142 142 1 2843 102 2843 102 16842 42770 88219 ... 82363 73512 43664 000 000	CW	(AB/HFD)
M12	3-10	1420	19468	Mon	142 142 142 1 2843 102 2843 102 16842 42770 88219 ... 82363 73512 43664 000 000	CW	(AB/HFD)
M12	3-10	1440	16268	Mon	142 142 142 1 2843 102 2843 102 16842 42770 88219 ... 82363 73512 43664 000 000	CW	(AB/HFD)
M12	3-10	2000	10318	Mon	178 178 178 000	CW	(AB/HFD)
M12	3-10	2020	9218	Mon	178 178 178 000	CW	(AB/HFD)
M12	3-10	2110	8164	Mon	197 197 197 000	CW	(AB/HFD)
M12	3-10	2130	6964	Mon	197 197 197 000	CW	(AB/HFD)
M12	4-10	0030	6837	Tue	802 802 802 000	CW	(AB)
M12	4-10	0050	8037	Tue	802 802 802 000	CW	(AB)
M12	5-10	0800	17441	Wed	462 462 462 1 950 66 950 66 76134 26304 91760 ... 28305 44021 63374 000 000	CW	(AB)
M12	5-10	0820	18641	Wed	462 462 462 1 950 66 950 66 76134 26304 91760 ... 28305 44021 63374 000 000	CW	(AB)
M12	5-10	0840	19241	Wed	462 462 462 1 950 66 950 66 76134 26304 91760 ... 28305 44021 63374 000 000	CW	(AB)
M12	5-10	1900	11135	Wed	122 122 122 1 7407 124 7407 124 52262 60796 14588 ... 26810 21810 79213 000 000	CW	(AB/HFD)
M12	5-10	1920	10235	Wed	122 122 122 1 7407 124 7407 124 52262 60796 14588 ... 26810 21810 79213 000 000	CW	(AB/HFD)
M12	5-10	1940	9235	Wed	122 122 122 1 7407 124 7407 124 52262 60796 14588 ... 26810 21810 79213 000 000	CW	(AB/HFD)
M12	6-10	1110	13386	Thu	725 725 725 1 3483 94 3483 94 91790 99065 16787 ... 59117 45970 69079 000 000	CW	(AB)
M12	6-10	1130	12189	Thu	725 725 725 1 3483 94 3483 94 91790 99065 16787 ... 59117 45970 69079 000 000	CW	(AB)
M12	6-10	1150	11491	Thu	725 725 725 1 3483 94 3483 94 91790 99065 16787 ... 59117 45970 69079 000 000	CW	(AB)
M12	6-10	1400	20168	Thu	142 142 142 1 2843 102 2843 102 16842 42770 88219 ... 82363 73512 43664 000 000	CW	(AB/MPJ)
M12	6-10	1420	19468	Thu	142 142 142 1 2843 102 2843 102 16842 42770 88219 ... 82363 73512 43664 000 000	CW	(AB/MPJ)
M12	6-10	1440	16268	Thu	142 142 142 1 2843 102 2843 102 16842 42770 88219 ... 82363 73512 43664 000 000	CW	(AB/MPJ)



M12	6-10	2000	10318	Thu	178 178 178 000	CW	(AB/RL)
M12	6-10	2020	9218	Thu	178 178 178 000	CW	(AB/RL)
M12	6-10	2110	8164	Thu	197 197 197 000	CW	(AB/RL)
M12	6-10	2130	6964	Thu	197 197 197 000	CW	(AB/RL)
M12	7-10	0030	6837	Fri	802 802 802 000	CW	(AB)
M12	7-10	0050	8037	Fri	802 802 802 000	CW	(AB)
M12	7-10	0800	14969	Fri	981 981 981 000	CW	(AB)
M12	7-10	0820	15869	Fri	981 981 981 000	CW	(AB)
M12	7-10	1900	11135	Fri	122 122 122 1 7407 124 7407 124 52262 60796 14588 ... 26810 21810 79213 000 000	CW	(AB)
M12	7-10	1920	10235	Fri	122 122 122 1 7407 124 7407 124 52262 60796 14588 ... 26810 21810 79213 000 000	CW	(AB)
M12	7-10	1940	9235	Fri	122 122 122 1 7407 124 7407 124 52262 60796 14588 ... 26810 21810 79213 000 000	CW	(AB)
M12	7-10	2100	5794	Fri	770 770 770 1 5463 142 5463 142 24772 90159 68033 ... 81495 66375 96448 000 000	CW	(AB/HFD)
M12	7-10	2120	6794	Fri	770 770 770 1 5463 142 5463 142 24772 90159 68033 ... 81495 66375 96448 000 000	CW	(AB/HFD)
M12	7-10	2140	8094	Fri	770 770 770 1 5463 142 5463 142 24772 90159 68033 ... 81495 66375 96448 000 000	CW	(AB/HFD)
M12	8-10	1800	11435	Sat	938 938 938 1 7080 80 7080 80 75315 64449 01106 ... 33585 73639 18183 000 000	CW	(AB)
M12	8-10	1820	10598	Sat	938 938 938 1 7080 80 7080 80 75315 64449 01106 ... 33585 73639 18183 000 000	CW	(AB)
M12	8-10	1840	9327	Sat	938 938 938 1 7080 80 7080 80 75315 64449 01106 ... 33585 73639 18183 000 000	CW	(AB)
M12	8-10	2100	5794	Sat	770 770 770 1 5463 142 5463 142 24772 90159 68033 ... 81495 66375 96448 000 000	CW	(AB)
M12	8-10	2120	6794	Sat	770 770 770 1 5463 142 5463 142 24772 90159 68033 ... 81495 66375 96448 000 000	CW	(AB)
M12	8-10	2140	8094	Sat	770 770 770 1 5463 142 5463 142 24772 90159 68033 ... 81495 66375 96448 000 000	CW	(AB)
M12	9-10	0800	17441	Sun	462 462 462 1 950 66 950 66 76134 26304 91760 ... 28305 44021 63374 000 000	CW	(AB/HFD)
M12	9-10	0820	18641	Sun	462 462 462 1 950 66 950 66 76134 26304 91760 ... 28305 44021 63374 000 000	CW	(AB/HFD)
M12	9-10	0840	19241	Sun	462 462 462 1 950 66 950 66 76134 26304 91760 ... 28305 44021 63374 000 000	CW	(AB/HFD)
M12	10-10	1230	12205	Mon	973 973 973 1 6055 60 6055 60 74026 89571 90726 ... 95658 64683 21680 000 000	CW	(AB)
M12	10-10	1250	13559	Mon	973 973 973 1 6055 60 6055 60 74026 89571 90726 ... 95658 64683 21680 000 000	CW	(AB)
M12	10-10	1310	14728	Mon	973 973 973 1 6055 60 6055 60 74026 89571 90726 ... 95658 64683 21680 000 000	CW	(AB)
M12	10-10	1400	20168	Mon	142 142 142 000	CW	(AB/MPJ)
M12	10-10	1420	19468	Mon	142 142 142 000	CW	(AB/MPJ)
M12	10-10	2000	10318	Mon	178 178 178 1 6470 88 6470 88 12541 48931 19327 ... 59185 19742 65400 000 000	CW	(AB)
M12	10-10	2020	9218	Mon	178 178 178 1 6470 88 6470 88 12541 48931 19327 ... 59185 19742 65400 000 000	CW	(AB)
M12	10-10	2040	8118	Mon	178 178 178 1 6470 88 6470 88 12541 48931 19327 ... 59185 19742 65400 000 000	CW	(AB)
M12	10-10	2110	8164	Mon	197 197 197 1 954 177 954 177 53645 71298 01458 ... 07573 08980 43688 000 000	CW	(AB)
M12	10-10	2130	6964	Mon	197 197 197 1 954 177 954 177 53645 71298 01458 ... 07573 08980 43688 000 000	CW	(AB)
M12	10-10	2150	5764	Mon	197 197 197 1 954 177 954 177 53645 71298 01458 ... 07573 08980 43688 000 000	CW	(AB)
M12	11-10	0030	6837	Tue	802 802 802 1 956 136 956 136 71154 84047 88086 ... 93579 24833 77789 000 000	CW	(AB/HFD)
M12	11-10	0050	8037	Tue	802 802 802 1 956 136 956 136 71154 84047 88086 ... 93579 24833 77789 000 000	CW	(AB/HFD)
M12	11-10	0110	9237	Tue	802 802 802 1 956 136 956 136 71154 84047 88086 ... 93579 24833 77789 000 000	CW	(AB/HFD)
M12	11-10	0800	14969	Tue	981 981 981 000	CW	(AB/HFD)
M12	11-10	0820	15869	Tue	981 981 981 000	CW	(AB/HFD)
M12	12-10	0800	17441	Wed	462 462 462 000	CW	(AB)
M12	12-10	0820	18641	Wed	462 462 462 000	CW	(AB)
M12	12-10	1900	11135	Wed	122 122 122 000	CW	(AB)

M12	12-10	1920	10235	Wed	122 122 122 000	CW	(AB)
M12	13-10	1110	13386	Thu	725 725 725 1 7617 94 7617 94 56565 42769 37296 ... 57642 12773 58022 000 000	CW	(AB/MPJ)
M12	13-10	1130	12189	Thu	725 725 725 1 7617 94 7617 94 56565 42769 37296 ... 57642 12773 58022 000 000	CW	(AB/MPJ)
M12	13-10	1150	11491	Thu	725 725 725 1 7617 94 7617 94 56565 42769 37296 ... 57642 12773 58022 000 000	CW	(AB/MPJ)
M12	13-10	1400	20168	Thu	142 142 142 000	CW	(AB)
M12	13-10	1420	19468	Thu	142 142 142 000	CW	(AB/XAH)
M12	13-10	2000	10318	Thu	178 178 178 1 6470 88 6470 88 12541 48931 19327 ... 59185 19742 65400 000 000	CW	(AB)
M12	13-10	2020	9218	Thu	178 178 178 1 6470 88 6470 88 12541 48931 19327 ... 59185 19742 65400 000 000	CW	(AB)
M12	13-10	2040	8118	Thu	178 178 178 1 6470 88 6470 88 12541 48931 19327 ... 59185 19742 65400 000 000	CW	(AB)
M12	13-10	2110	8164	Thu	197 197 197 1 954 177 954 177 53645 71298 01458 ... 07573 08980 43688 000 000	CW	(AB)
M12	13-10	2130	6964	Thu	197 197 197 1 954 177 954 177 53645 71298 01458 ... 07573 08980 43688 000 000	CW	(AB)
M12	13-10	2150	5764	Thu	197 197 197 1 954 177 954 177 53645 71298 01458 ... 07573 08980 43688 000 000	CW	(AB)
M12	14-10	0030	6837	Fri	802 802 802 1 956 136 956 136 71154 84047 88086 ... 93579 24833 77789 000 000	CW	(AB)
M12	14-10	0050	8037	Fri	802 802 802 1 956 136 956 136 71154 84047 88086 ... 93579 24833 77789 000 000	CW	(AB)
M12	14-10	0110	9237	Fri	802 802 802 1 956 136 956 136 71154 84047 88086 ... 93579 24833 77789 000 000	CW	(AB)
M12	14-10	0800	14969	Fri	981 981 981 000	CW	(AB/XAH)
M12	14-10	0820	15869	Fri	981 981 981 000	CW	(AB/XAH)
M12	14-10	1900	11135	Fri	122 122 122 000	CW	(AB)
M12	14-10	1920	10235	Fri	122 122 122 000	CW	(AB)
M12	14-10	2100	5794	Fri	770 770 770 1 5463 142 5463 142 24772 90159 68033 ... 81495 66375 96448 000 000	CW	(AB)
M12	14-10	2120	6794	Fri	770 770 770 1 5463 142 5463 142 24772 90159 68033 ... 81495 66375 96448 000 000	CW	(AB)
M12	14-10	2140	8094	Fri	770 770 770 1 5463 142 5463 142 24772 90159 68033 ... 81495 66375 96448 000 000	CW	(AB)
M12	15-10	1800	11435	Sat	938 938 938 1 7581 79 7581 79 51064 52950 54261 ...	CW	(AB/XAH)
M12	15-10	1820	10598	Sat	938 938 938 1 7581 79 7581 79 51064 52950 54261 ...	CW	(AB/XAH)
M12	15-10	1840	9327	Sat	938 938 938 1 7581 79 7581 79 51064 52950 54261 ...	CW	(AB/XAH)
M12	15-10	2100	5794	Sat	770 770 770 1 5463 142 5463 142 24772 90159 68033 ... 81495 66375 96448 000 000	CW	(AB)
M12	15-10	2120	6794	Sat	770 770 770 1 5463 142 5463 142 24772 90159 68033 ... 81495 66375 96448 000 000	CW	(AB)
M12	15-10	2140	8094	Sat	770 770 770 1 5463 142 5463 142 24772 90159 68033 ... 81495 66375 96448 000 000	CW	(AB)
M12	16-10	0800	17441	Sun	462 462 462 000	CW	(AB)
M12	16-10	0820	18641	Sun	462 462 462 000	CW	(AB)
M12	17-10	1230	12205	Mon	973 973 973 1 8693 55 8693 55 68718 20445 25660 ... 77187 92113 93830 000 000	CW	(AB)
M12	17-10	1250	13559	Mon	973 973 973 1 8693 55 8693 55 68718 20445 25660 ... 77187 92113 93830 000 000	CW	(AB)
M12	17-10	1310	14728	Mon	973 973 973 1 8693 55 8693 55 68718 20445 25660 ... 77187 92113 93830 000 000	CW	(AB)
M12	17-10	1400	20168	Mon	142 142 142 1 9842 146 9842 146 23129 67750 31926 ... 16408 86349 63172 000 000	CW	(AB)
M12	17-10	1420	19468	Mon	142 142 142 1 9842 146 9842 146 23129 67750 31926 ... 16408 86349 63172 000 000	CW	(AB)
M12	17-10	1440	16268	Mon	142 142 142 1 9842 146 9842 146 23129 67750 31926 ... 16408 86349 63172 000 000	CW	(AB)
M12	17-10	2000	10318	Mon	178 178 178 000	CW	(AB)
M12	17-10	2020	9218	Mon	178 178 178 000	CW	(AB)
M12	17-10	2110	8164	Mon	197 197 197 000	CW	(AB)
M12	17-10	2130	6964	Mon	197 197 197 000	CW	(AB)
M12	18-10	0030	6837	Tue	802 802 802 000	CW	(AB)
M12	18-10	0050	8037	Tue	802 802 802 000	CW	(AB)

M12	18-10	0800	14969	Tue	981 981 981 000	CW	(AB)
M12	18-10	0820	15869	Tue	981 981 981 000	CW	(AB)
M12	19-10	0800	17441	Wed	462 462 462 1 222 72 222 72 37497 83361 29048 ... 33618 85163 89521 000 000	CW	(AB)
M12	19-10	0820	18641	Wed	462 462 462 1 222 72 222 72 37497 83361 29048 ... 33618 85163 89521 000 000	CW	(AB)
M12	19-10	0840	19241	Wed	462 462 462 1 222 72 222 72 37497 83361 29048 ... 33618 85163 89521 000 000	CW	(AB)
M12	19-10	1900	11135	Wed	122 122 122 1 948 144 948 144 34020 29586 07862 ... 92356 92160 74271 000 000	CW	(AB)
M12	19-10	1920	10235	Wed	122 122 122 1 948 144 948 144 34020 29586 07862 ... 92356 92160 74271 000 000	CW	(AB)
M12	19-10	1940	9235	Wed	122 122 122 1 948 144 948 144 34020 29586 07862 ... 92356 92160 74271 000 000	CW	(AB)
M12	20-10	1110	13386	Thu	725 725 725 1 4888 90 4888 90 25724 42549 89980 ... 46375 99724 02558 000 000	CW	(AB)
M12	20-10	1130	12189	Thu	725 725 725 1 4888 90 4888 90 25724 42549 89980 ... 46375 99724 02558 000 000	CW	(AB)
M12	20-10	1150	11491	Thu	725 725 725 1 4888 90 4888 90 25724 42549 89980 ... 46375 99724 02558 000 000	CW	(AB)
M12	20-10	1400	20168	Thu	142 142 142 1 9842 146 9842 146 23129 67750 31926 ... 16408 86349 63172 000 000	CW	(AB/MPJ)
M12	20-10	1420	19468	Thu	142 142 142 1 9842 146 9842 146 23129 67750 31926 ... 16408 86349 63172 000 000	CW	(AB/MPJ)
M12	20-10	1440	16268	Thu	142 142 142 1 9842 146 9842 146 23129 67750 31926 ... 16408 86349 63172 000 000	CW	(AB/MPJ)
M12	20-10	2000	10318	Thu	178 178 178 000	CW	(AB)
M12	20-10	2020	9218	Thu	178 178 178 000	CW	(AB)
M12	20-10	2110	8164	Thu	197 197 197 000	CW	(AB)
M12	20-10	2130	6964	Thu	197 197 197 000	CW	(AB)
M12	21-10	0030	6837	Fri	802 802 802 000	CW	(AB)
M12	21-10	0050	8037	Fri	802 802 802 000	CW	(AB)
M12	21-10	0800	14969	Fri	981 981 981 000	CW	(AB)
M12	21-10	0820	15869	Fri	981 981 981 000	CW	(AB)
M12	21-10	1900	11135	Fri	122 122 122 1 948 144 948 144 34020 29586 07862 ... 92356 92160 74271 000 000	CW	(AB)
M12	21-10	1920	10235	Fri	122 122 122 1 948 144 948 144 34020 29586 07862 ... 92356 92160 74271 000 000	CW	(AB)
M12	21-10	1940	9235	Fri	122 122 122 1 948 144 948 144 34020 29586 07862 ... 92356 92160 74271 000 000	CW	(AB)
M12	21-10	2100	5794	Fri	770 770 770 1 4517 184 4517 184 89846 05043 52637 ... 62653 67146 83629 000 000	CW	(AB)
M12	21-10	2120	6794	Fri	770 770 770 1 4517 184 4517 184 89846 05043 52637 ... 62653 67146 83629 000 000	CW	(AB)
M12	21-10	2140	8094	Fri	770 770 770 1 4517 184 4517 184 89846 05043 52637 ... 62653 67146 83629 000 000	CW	(AB)
M12	22-10	1800	11435	Sat	938 938 938 1 ... (too weak to copy)	CW	(AB)
M12	22-10	1820	10598	Sat	938 938 938 1 ... (too weak to copy)	CW	(AB)
M12	22-10	1840	9327	Sat	938 938 938 1 ... (too weak to copy)	CW	(AB)
M12	22-10	2100	5794	Sat	770 770 770 1 4517 184 4517 184 89846 05043 52637 ... 62653 67146 83629 000 000	CW	(AB)
M12	22-10	2120	6794	Sat	770 770 770 1 4517 184 4517 184 89846 05043 52637 ... 62653 67146 83629 000 000	CW	(AB)
M12	22-10	2140	8094	Sat	770 770 770 1 4517 184 4517 184 89846 05043 52637 ... 62653 67146 83629 000 000	CW	(AB)
M12	23-10	0800	17441	Sun	462 462 462 1 222 72 222 72 37497 83361 29048 ... 33618 85163 89521 000 000	CW	(AB)
M12	23-10	0820	18641	Sun	462 462 462 1 222 72 222 72 37497 83361 29048 ... 33618 85163 89521 000 000	CW	(AB)
M12	23-10	0840	19241	Sun	462 462 462 1 222 72 222 72 37497 83361 29048 ... 33618 85163 89521 000 000	CW	(AB)
M12	24-10	0010	17429	Mon	429 429 429 1 ...	CW	(HFD-J)
M12	24-10	0030	16219	Mon	429 429 429 1 ...	CW	(HFD-J)
M12	24-10	0050	15929	Mon	429 429 429 1 ...	CW	(HFD-J)
M12	24-10	1230	12205	Mon	973 973 973 1 7766 58 7766 58 90153 06712 05500 ... 75127 82944 07964 000 000	CW	(AB/MPJ)
M12	24-10	1250	13559	Mon	973 973 973 1 7766 58 7766 58 90153 06712 05500 ... 75127 82944 07964 000 000	CW	(AB/MPJ)

M12	24-10	1310	14728	Mon	973 973 973 1 7766 58 7766 58 90153 06712 05500 ... 75127 82944 07964 000 000	CW	(AB/MPJ)
M12	24-10	1400	20168	Mon	142 142 142 000	CW	(AB/MPJ)
M12	24-10	1420	19468	Mon	142 142 142 000	CW	(AB/MPJ)
M12	24-10	2000	10318	Mon	178 178 178 1 932 97 932 97 93485 16274 44674 ... 39641 78548 55647 000 000	CW	(AB)
M12	24-10	2020	9218	Mon	178 178 178 1 932 97 932 97 93485 16274 44674 ... 39641 78548 55647 000 000	CW	(AB)
M12	24-10	2040	8118	Mon	178 178 178 1 932 97 932 97 93485 16274 44674 ... 39641 78548 55647 000 000	CW	(AB)
M12	25-10	0300	17437	Tue	Quickly cut off (wrong frequency?)	CW	(PY)
M12	25-10	0301	17473	Tue	495 495 495 1 160 108 160 108 43160 48815 98308 ... 41713 16167 15147 000 000	CW	(PY)
M12	25-10	0320	15973	Tue	495 495 495 1 160 108 160 108 43160 48815 98308 ... 41713 16167 15147 000 000	CW	(PY)
M12	25-10	0340	14573	Tue	495 495 495 1 160 108 160 108 43160 48815 98308 ... 41713 16167 15147 000 000	CW	(PY)
M12	25-10	0800	14969	Tue	981 981 981 000	CW	(AB)
M12	25-10	0820	15869	Tue	981 981 981 000	CW	(AB)
M12	26-10	0800	17441	Wed	462 462 462 000	CW	(AB)
M12	26-10	0820	18641	Wed	462 462 462 000	CW	(AB)
M12	26-10	1900	11135	Wed	122 122 122 000	CW	(AB)
M12	26-10	1920	10235	Wed	122 122 122 000	CW	(AB)
M12	27-10	0301	17437	Thu	495 495 495 1 160 108 160 108 43160 48815 98308 ... 41713 16167 15147 000 000 note the freq	CW	(PY)
M12	27-10	0320	15973	Thu	495 495 495 1 160 108 160 108 43160 48815 98308 ... 41713 16167 15147 000 000	CW	(PY)
M12	27-10	0340	14573	Thu	495 495 495 1 160 108 160 108 43160 48815 98308 ... 41713 16167 15147 000 000	CW	(PY)
M12	27-10	1110	13386	Thu	725 725 725 1 3896 91 3896 06051 09808 69520 ... 21522 19019 62007 000 000	CW	(AB)
M12	27-10	1130	12189	Thu	725 725 725 1 3896 91 3896 06051 09808 69520 ... 21522 19019 62007 000 000	CW	(AB)
M12	27-10	1150	11491	Thu	725 725 725 1 3896 91 3896 06051 09808 69520 ... 21522 19019 62007 000 000	CW	(AB)
M12	27-10	1400	20168	Thu	142 142 142 000	CW	(AB)
M12	27-10	1420	19468	Thu	142 142 142 000	CW	(AB)
M12	27-10	2000	10318	Thu	178 178 178 1 932 97 932 97 93485 16274 44674 ... 39641 78548 55647 000 000	CW	(AB)
M12	27-10	2020	9218	Thu	178 178 178 1 932 97 932 97 93485 16274 44674 ... 39641 78548 55647 000 000	CW	(AB)
M12	27-10	2040	8118	Thu	178 178 178 1 932 97 932 97 93485 16274 44674 ... 39641 78548 55647 000 000	CW	(AB)
M12	27-10	2110	8164	Thu	197 197 197 1 4308 193 4308 193 22020 41153 04679 ... 84823 68169 84777 000 000	CW	(AB)
M12	27-10	2130	6964	Thu	197 197 197 1 4308 193 4308 193 22020 41153 04679 ... 84823 68169 84777 000 000	CW	(AB)
M12	27-10	2150	5764	Thu	197 197 197 1 4308 193 4308 193 22020 41153 04679 ... 84823 68169 84777 000 000	CW	(AB)
M12	28-10	0030	6837	Fri	802 802 802 1 823 94 823 94 61506 49885 66275 ... 96505 78749 02610 000 000	CW	(AB)
M12	28-10	0050	8037	Fri	802 802 802 1 823 94 823 94 61506 49885 66275 ... 96505 78749 02610 000 000	CW	(AB)
M12	28-10	0110	9237	Fri	802 802 802 1 823 94 823 94 61506 49885 66275 ... 96505 78749 02610 000 000	CW	(AB)
M12	28-10	0800	14969	Fri	981 981 981 000	CW	(AB)
M12	28-10	0820	15869	Fri	981 981 981 000	CW	(AB)
M12	28-10	1900	11135	Fri	122 122 122 000	CW	(AB-RUS)
M12	28-10	1920	10235	Fri	122 122 122 000	CW	(AB-RUS)
M12	28-10	2100	5794	Fri	770 770 770 1 4517 184 4517 184 89846 05043 52637 ... 62653 67146 83629 000 000	CW	(AB)
M12	28-10	2120	6794	Fri	770 770 770 1 4517 184 4517 184 89846 05043 52637 ... 62653 67146 83629 000 000	CW	(AB)
M12	28-10	2140	8094	Fri	770 770 770 1 4517 184 4517 184 89846 05043 52637 ... 62653 67146 83629 000 000	CW	(AB)
M12	29-10	1800	11435	Sat	938 938 938 1 9500 77 9500 77 14424 02277 74833 .. 75064 96548 70673 000 000	CW	(AB)
M12	29-10	1820	10598	Sat	938 938 938 1 9500 77 9500 77 14424 02277 74833 .. 75064 96548 70673 000 000	CW	(AB)

<b>M12</b>	29-10	1840	9327	Sat	938 938 938 1 9500 77 9500 77 14424 02277 74833 .. 75064 96548 70673 000 000	CW	(AB)
<b>M12</b>	29-10	2100	5794	Sat	770 770 770 1 4517 184 4517 184 89846 05043 52637 ... 62653 67146 83629 000 000	CW	(AB)
<b>M12</b>	29-10	2120	6794	Sat	770 770 770 1 4517 184 4517 184 89846 05043 52637 ... 62653 67146 83629 000 000	CW	(AB)
<b>M12</b>	29-10	2140	8094	Sat	770 770 770 1 4517 184 4517 184 89846 05043 52637 ... 62653 67146 83629 000 000	CW	(AB)
<b>M12</b>	30-10	0800	17441	Sun	462 462 462 000	CW	(AB)
<b>M12</b>	30-10	0820	18641	Sun	462 462 462 000	CW	(AB)
<b>M12</b>	31-10	1230	12205	Mon	973 973 973 1 6016 60 6016 60 73000 26423 11508 ... 00527 81969 76016 000 000	CW	(AB)
<b>M12</b>	31-10	1250	13559	Mon	973 973 973 1 6016 60 6016 60 73000 26423 11508 ... 00527 81969 76016 000 000	CW	(AB)
<b>M12</b>	31-10	1310	14728	Mon	973 973 973 1 6016 60 6016 60 73000 26423 11508 ... 00527 81969 76016 000 000	CW	(AB)
<b>M12</b>	31-10	1400	20168	Mon	142 142 142 1 5 755 96 5755 96 64136 63207 91133... 84106 89234 73109 000 000	CW	(AB)
<b>M12</b>	31-10	1420	19468	Mon	142 142 142 1 5 755 96 5755 96 64136 63207 91133... 84106 89234 73109 000 000	CW	(AB)
<b>M12</b>	31-10	1440	16268	Mon	142 142 142 1 5 755 96 5755 96 64136 63207 91133... 84106 89234 73109 000 000	CW	(AB)
<b>M12</b>	31-10	2000	10318	Mon	178 178 178 000	CW	(AB)
<b>M12</b>	31-10	2020	9218	Mon	178 178 178 000	CW	(AB)
<b>M12</b>	31-10	2110	8164	Mon	197 197 197 000	CW	(AB)
<b>M12</b>	31-10	2130	6964	Mon	197 197 197 000	CW	(AB)
<b>M14</b>	3-10	0500	12211	Mon	952 340 340 59 59 == 29017 86005 28834 ... 62091 30679 58269 == 340 340 59 59 (no closing nulls)	CW	(AB-J)
<b>M14</b>	3-10	0520	10243	Mon	952 340 340 59 59 == 29017 86005 28834 ... 62091 30679 58269 == 340 340 59 59 (no closing nulls)	CW	(AB-J)
<b>M14</b>	4-10	0500	12211	Tue	952 786 786 51 51 == 51629 48372 49316 ... 04012 13798 03775 == 786 786 51 51 00000	CW	(AB-J)
<b>M14</b>	4-10	0520	10243	Tue	952 786 786 51 51 == 51629 48372 49316 ... 04012 13798 03775 == 786 786 51 51 00000	CW	(AB-J)
<b>M14</b>	5-10	0500	12211	Wed	952 103 103 62 62 == 15577 30505 77778 ... 83330 82602 88551 == 103 103 62 62 00000	CW	(AB-J)
<b>M14</b>	5-10	0520	10243	Wed	952 103 103 62 62 == 15577 30505 77778 ... 83330 82602 88551 == 103 103 62 62 00000	CW	(AB-J)
<b>M14</b>	6-10	0500	12211	Thu	952 847 847 62 62 == 87517 33879 33401 ... Off after group 34	CW	(AB-J)
<b>M14</b>	6-10	0520	10243	Thu	952 847 847 62 62 == 87517 33879 33401 ... 85747 97935 98352 847 847 62 62 00000	CW	(AB-J)
<b>M14</b>	7-10	0500	12211	Fri	Odd preamble. Slow morse, break in gr 8, then normal speed 480 480 480 00000 (R4) 631 631 52 52 == 02962 42275 28580 ... 70421 04391 53514 == 631 631 52 52 00000	CW	(AB-J)
<b>M14</b>	7-10	0520	10243	Fri	Odd preamble. 480 480 480 00000 (R4) 631 631 52 52 == 02962 42275 28580 ... 70421 04391 53514 == 631 631 52 52 00000	CW	(AB-J)
<b>M14</b>	10-10	0503	12211	Mon	952 478 478 51 51 == 03998 38013 20236 ... 74368 84277 59928 == 478 478 51 51 00000 Late start and briefly slow morse at 0503z, then normal speed.	CW	(AB-J)
<b>M14</b>	10-10	0520	10243	Mon	952 478 478 51 51 == 03998 38013 20236 ... 74368 84277 59928 == 478 478 51 51 00000	CW	(AB-J)
<b>M14</b>	11-10	0502	12211	Tue	952 106 106 52 52 == 89766 85928 26101 ... 07685 07501 99163 == 106 106 52 52 00000 Late start	CW	(AB-J)
<b>M14</b>	11-10	0520	10243	Tue	952 106 106 52 52 == 89766 85928 26101 ... 07685 07501 99163 == 106 106 52 52 00000 Distorted audio. Mixed carrier and morse signal	CW	(AB-J)
<b>M14</b>	12-10	0500	12211	Wed	952 437 437 56 56 == 40961 62245 38998 ... 96314 12565 04963 == 437 437 56 56 00000	CW	(AB-J)
<b>M14</b>	12-10	0520	10243	Wed	952 437 437 56 56 == 40961 62245 38998 ... 96314 12565 04963 == 437 437 56 56 00000	CW	(AB-J)
<b>M14</b>	13-10	0500	12211	Thu	952 806 806 52 52 == 31462 93696 31606 ... 09211 42727 58108 == 806 806 52 52 00000	CW	(AB-J)
<b>M14</b>	13-10	0520	10243	Thu	952 806 806 52 52 == 31462 93696 31606 ... 09211 42727 58108 == 806 806 52 52 00000	CW	(AB-J)
<b>M14</b>	14-10	0500	12211	Fri	952 317 317 58 58 == 10638 05931 33907 ... 23141 19417 33326 == 317 317 58 58 00000	CW	(AB-J)

<b>M14</b>	14-10	0520	10243	Fri	952 317 317 58 58 == 10638 05931 33907 ... 23141 19417 33326 == 317 317 58 58 00000	CW	(AB-J)
<b>M14</b>	17-10	0501	12211	Mon	952 648 648 55 55 == 16632 20266 15557 ... 23585 67881 75611 == 648 648 55 55 00000 Late start. Several breaks during the callup	CW	(AB-J)
<b>M14</b>	18-10	0500	12211	Tue	952 107 107 55 55 == 78506 30112 16817 ... 14342 76566 45512 == 107 107 55 55 00000	CW	(AB-J)
<b>M14</b>	18-10	0520	10243	Tue	952 107 107 55 55 == 78506 30112 16817 ... 14342 76566 45512 == 107 107 55 55 00000 Carrier till 0524z, then mixed carrier and morse signal. At 0526z normal morse	CW	(AB-J)
<b>M14</b>	19-10	0500	12211	Wed	952 463 463 52 52 == 23119 31972 85779 ... 54851 10527 29487 == 463 463 52 52 00000	CW	(AB-J)
<b>M14</b>	19-10	0522	10243	Wed	952 463 463 52 52 == 23119 31972 85779 ... 54851 10527 29487 == 463 463 52 52 00000 Late start	CW	(AB-J)
<b>M14</b>	20-10	0500	12211	Thu	952 870 870 52 52 == 39507 49060 81628 ... 71554 88870 89126 == 870 870 52 52 00000	CW	(AB-J)
<b>M14</b>	20-10	0520	10243	Thu	952 870 870 52 52 == 39507 49060 81628 ... 71554 88870 89126 == 870 870 52 52 00000	CW	(AB-J)
<b>M14</b>	21-10	0500	12211	Fri	952 136 136 57 57 == 78290 21484 67649 ... 71422 44961 00545 == 136 136 57 57 00000	CW	(AB-J)
<b>M14</b>	21-10	0520	10243	Fri	952 136 136 57 57 == 78290 21484 67649 ... 71422 44961 00545 == 136 136 57 57 00000	CW	(AB-J)
<b>M14</b>	24-10	0505	12211	Mon	Late start. 952 (R4) only	CW	(AB-J)
<b>M14</b>	24-10	0522	10243	Mon	952 136 136 57 57 == 78290 21484 67649 ... 71422 44961 00545 == 136 136 57 57 00000 Late start	CW	(AB-J)
<b>M14</b>	25-10	0500	12211	Tue	952 183 183 52 52 == 75377 47534 92431 ... 53951 29967 15241 == 183 183 52 52 00000	CW	(AB-J)
<b>M14</b>	25-10	0520	10243	Tue	952 183 183 52 52 == 75377 47534 92431 ... 53951 29967 15241 == 183 183 52 52 00000	CW	(AB-J)
<b>M14</b>	25-10	0930	17458	Tue	617 617 617 00000	CW	(AB)
<b>M14</b>	26-10	0500	12211	Wed	952 674 674 51 51 == 51547 91604 03412 ... 37706 74944 05115 == 674 674 51 51 00000	CW	(AB-J)
<b>M14</b>	26-10	0520	10243	Wed	952 674 674 51 51 == 51547 91604 03412 ... 37706 74944 05115 == 674 674 51 51 00000	CW	(AB-J)
<b>M14</b>	27-10	0500	12211	Thu	952 380 380 59 59 == 30327 57163 22332 ... 81673 87609 53464 == 380 380 59 59 00000	CW	(AB-J)
<b>M14</b>	27-10	0520	10243	Thu	952 380 380 59 59 == 30327 57163 22332 ... 81673 87609 53464 == 380 380 59 59 00000	CW	(AB-J)
<b>M14</b>	28-10	0500	12211	Fri	952 761 761 54 54 == 68080 92421 09471 ... 32002 31721 98738 == 761 761 54 54 00000	CW	(AB-J)
<b>M14</b>	28-10	0520	10243	Fri	952 761 761 54 54 == 68080 92421 09471 ... 32002 31721 98738 == 761 761 54 54 00000	CW	(AB-J)
<b>M14</b>	31-10	0505	12211	Mon	952 430 430 58 58 == 15591 76929 80679 ... 17291 57950 07341 == 430 430 58 58 00000	CW	(AB-J)
<b>M14</b>	31-10	0522	10243	Mon	952 430 430 58 58 == 15591 76929 80679 ... 17291 57950 07341 == 430 430 58 58 00000	CW	(AB-J)
<b>M32</b>	2-10	0803	17454	Sun	MUOP MUOP MUOP DE ORM9 ORM9 K	CW	(AB)
<b>M32</b>	4-10	1905	7824	Tue	VVV VHBO VHBO VHBO. VHBO VHBO VHHB	CW	(AB)
<b>M32</b>	12-10	0801	13442	Wed	RGT77 RGT77 062 = DDDDD YuYIKP DDEYaD ONHYD ShNHYD OYaCCV ShNYD DShCCV ShNHYD LYaCCV DHOSHC TFLVT YaPPQU YaVPYaW = K	CW	(VSh)
<b>M32</b>	16-10	0811	17454	Sun	RK SRYG SRYG SRYG DE OZ7O OZ7O K JGNI JGNI JGNI DE OZ7O OZ7O QRV K	CW	(AB)
<b>M32</b>	26-10	1415	17460	Wed	RDL RDL RDL 31929 66956 31929 66956 31929 66956 K	FSK CW	(AB)
<b>M32</b>	26-10	1459	17460	Wed	RDL RDL RDL 74029 98552 74029 98552 74029 98552 K	FSK CW	(AB)
<b>M32</b>	26-10	1535	17460	Wed	RDL RDL RDL 66469 94029 66469 94029 66469 94029 K	FSK CW	(AB)
<b>M32a</b>	4-10	1020	6324	Tue	RMPK: Nina Sokolova/SB-121 wkg RMP. AIS pos 57.6N/11.1E at anchor east Skagen,voyage Lo-monosov > Kattegat	CW	(Max)
<b>M41</b>	20-10	1200	8293.5	Thu	952 06657997 13 952 16657967 13 960 06683254 72 60 14 952 36663946 71 60 900 13 72 960 16683234 72 600	CW	(Mario-J)
<b>M42</b>	10-10	1200	9142	Mon	Russian intel	20Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	10-10	1210	10256	Mon	Russian intel	20Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	10-10	1220	11431	Mon	Russian intel	20Bd 16FSK+250Bd BPSK	(PY/VSh)



<b>M42</b>	10-10	1230	12192	Mon	Russian intel	20Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	10-10	1240	13439	Mon	Russian intel	20Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	10-10	1240	14712	Mon	Russian intel	20Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	10-10	1300	9142	Mon	Russian intel	20Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	10-10	1310	10256	Mon	Russian intel	20Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	10-10	1320	11431	Mon	Russian intel	20Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	10-10	1330	12192	Mon	Russian intel	20Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	10-10	1340	13439	Mon	Russian intel	20Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	10-10	1350	14712	Mon	Russian intel	20Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	10-10	1400	9142	Mon	Russian intel	20Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	10-10	1410	10256	Mon	Russian intel	20Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	10-10	1420	11431	Mon	Russian intel	20Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	10-10	1430	12192	Mon	Russian intel	20Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	10-10	1440	13439	Mon	Russian intel	20Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	10-10	1450	14712	Mon	Russian intel	20Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	11-10	0640	12192	Tue	Russian intel	8x62.5Bd QPSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	11-10	0645	13439	Tue	Russian intel	8x62.5Bd QPSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	11-10	0650	14712	Tue	Russian intel	8x62.5Bd QPSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	11-10	0700	12192	Tue	Russian intel	5x10Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	11-10	0705	13439	Tue	Russian intel	5x10Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	11-10	0710	14712	Tue	Russian intel	5x10Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	11-10	0720	12192	Tue	Russian intel	8x62.5Bd QPSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	11-10	0720	14712	Tue	Russian intel	8x62.5Bd QPSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	11-10	0725	13439	Tue	Russian intel	8x62.5Bd QPSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	11-10	0740	12192	Tue	Russian intel	10Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	11-10	0745	13439	Tue	Russian intel	10Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	11-10	0750	14712	Tue	Russian intel	10Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	11-10	0800	12192	Tue	Russian intel	40Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	11-10	0805	13439	Tue	Russian intel	40Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	11-10	0810	14712	Tue	Russian intel	40Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	11-10	0830	12192	Tue	Russian intel	10Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	11-10	0832	14630	Tue	Russian diplo/intel.	Serdolik v2	(AB)
<b>M42</b>	11-10	0835	13439	Tue	Russian intel	10Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	11-10	0840	14712	Tue	Russian intel	10Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	11-10	0855	15654	Tue	MFA Moscow tfc to unid embassy	OFDM-121	(AB)



M42	11-10	0900	12192	Tue	Russian intel	40Bd 16FSK+250Bd BPSK	(PY/VSh)
M42	11-10	0910	13439	Tue	Russian intel	40Bd 16FSK+250Bd BPSK	(PY/VSh)
M42	11-10	0920	14712	Tue	Russian intel	40Bd 16FSK+250Bd BPSK	(PY/VSh)
M42	11-10	1000	12105	Tue	Russian diplo	OFDM-121	(AB)
M42	11-10	1000	12164	Tue	Russian diplo	OFDM-121	(AB)
M42	11-10	1020	9142	Tue	Russian intel	5x10Bd 16FSK+250Bd BPSK	(PY/VSh)
M42	11-10	1030	15654	Tue	MFA Moscow tfc to unid embassy	OFDM-121	(AB)
M42	11-10	1030	10256	Tue	Russian intel	5x10Bd 16FSK+250Bd BPSK	(PY/VSh)
M42	11-10	1050	12192	Tue	Russian intel	5x10Bd 16FSK+250Bd BPSK	(PY/VSh)
M42	11-10	1100	13964	Tue	Russian intel	5x10Bd 16FSK+250Bd BPSK	(PY/VSh)
M42	11-10	1110	14712	Tue	Russian intel	5x10Bd 16FSK+250Bd BPSK	(PY/VSh)
M42	11-10	1140	12192	Tue	Russian intel	8x62.5Bd QPSK+250Bd BPSK	(PY/VSh)
M42	11-10	1145	13964	Tue	Russian intel	8x62.5Bd QPSK+250Bd BPSK	(PY/VSh)
M42	11-10	1150	14712	Tue	Russian intel	8x62.5Bd QPSK+250Bd BPSK	(PY/VSh)
M42	11-10	1210	12192	Tue	Russian intel	8x62.5Bd QPSK+250Bd BPSK	(PY/VSh)
M42	11-10	1215	13964	Tue	Russian intel	8x62.5Bd QPSK+250Bd BPSK	(PY/VSh)
M42	11-10	1220	14712	Tue	Russian intel	8x62.5Bd QPSK+250Bd BPSK	(PY/VSh)
M42	11-10	1235	12192	Tue	Russian intel	40Bd 16FSK+250Bd BPSK	(PY/VSh)
M42	11-10	1240	13439	Tue	Russian intel	40Bd 16FSK+250Bd BPSK	(PY/VSh)
M42	11-10	1245	14712	Tue	Russian intel	40Bd 16FSK+250Bd BPSK	(PY/VSh)
M42	11-10	1300	9142	Tue	Russian intel	10Bd 16FSK+250Bd BPSK	(PY/VSh)
M42	11-10	1305	10256	Tue	Russian intel	10Bd 16FSK+250Bd BPSK	(PY/VSh)
M42	11-10	1310	11431	Tue	Russian intel	10Bd 16FSK+250Bd BPSK	(PY/VSh)
M42	11-10	1350	9142	Tue	Russian intel	10Bd 16FSK+250Bd BPSK	(PY/VSh)
M42	11-10	1355	10256	Tue	Russian intel	10Bd 16FSK+250Bd BPSK	(PY/VSh)
M42	11-10	1400	11431	Tue	Russian intel	10Bd 16FSK+250Bd BPSK	(PY/VSh)
M42	11-10	1405	12192	Tue	Russian intel	10Bd 16FSK+250Bd BPSK	(PY/VSh)
M42	11-10	1410	13964	Tue	Russian intel	10Bd 16FSK+250Bd BPSK	(PY/VSh)
M42	11-10	1415	14712	Tue	Russian intel	10Bd 16FSK+250Bd BPSK	(PY/VSh)
M42	12-10	0635	11431	Wed	Russian intel	20Bd 16FSK+250Bd BPSK	(AB)
M42	12-10	0649	19531	Wed	Russian diplo	OFDM-121	(AB)
M42	12-10	0740	11431	Wed	Russian intel	40Bd 16FSK+250Bd BPSK	(AB/PY/VSh)
M42	12-10	0745	12192	Wed	Russian intel	40Bd 16FSK+250Bd BPSK	(AB/PY/VSh)

<b>M42</b>	12-10	0750	13964	Wed	Russian intel. A few beeps, possibly TX failure during callup of Russian 7 experimental mode	USB	(PY/VSh)
<b>M42</b>	12-10	0800	11431	Wed	Russian intel. 8 secs transmitter noise	USB	(PY/VSh)
<b>M42</b>	12-10	0805	12188	Wed	Russian diplo/intel.	Serdolik v2	(AB)
<b>M42</b>	12-10	0805	12192	Wed	Russian intel	8x62.5Bd QPSK+250Bd BPSK	(AB/PY/VSh)
<b>M42</b>	12-10	0810	13964	Wed	Russian intel	8x62.5Bd QPSK+250Bd BPSK	(AB/PY/VSh)
<b>M42</b>	12-10	0820	12188	Wed	Russian diplo/intel.	Serdolik v2	(AB)
<b>M42</b>	12-10	0825	11431	Wed	Russian intel	40Bd 16FSK+250Bd BPSK	(AB/PY/VSh)
<b>M42</b>	12-10	0830	12192	Wed	Russian intel	40Bd 16FSK+250Bd BPSK	(AB/PY/VSh)
<b>M42</b>	12-10	0835	13964	Wed	Russian intel	40Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	12-10	0900	11431	Wed	Russian intel	8x62.5Bd QPSK+250Bd BPSK	(AB/PY/VSh)
<b>M42</b>	12-10	0905	12192	Wed	Russian intel	8x62.5Bd QPSK+250Bd BPSK	(AB/PY/VSh)
<b>M42</b>	12-10	0910	13964	Wed	Russian intel	8x62.5Bd QPSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	12-10	0930	9142	Wed	Russian intel	10Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	12-10	0935	10256	Wed	Russian intel	10Bd 16FSK+250Bd BPSK	(AB/PY/VSh)
<b>M42</b>	12-10	0935	10256	Wed	Russian intel	10Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	12-10	0940	11574	Wed	Russian intel	10Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	12-10	0940	11574	Wed	Russian intel	10Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	12-10	0945	12192	Wed	Russian intel	10Bd 16FSK+250Bd BPSK	(AB/PY/VSh)
<b>M42</b>	12-10	0950	13964	Wed	Russian intel	10Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	12-10	0955	14712	Wed	Russian intel	10Bd 16FSK+250Bd BPSK	(AB/PY/VSh)
<b>M42</b>	12-10	1000	11431	Wed	Russian intel	8x62.5Bd QPSK+250Bd BPSK	(AB)
<b>M42</b>	12-10	1005	12192	Wed	Russian intel	8x62.5Bd QPSK+250Bd BPSK	(AB)
<b>M42</b>	12-10	1010	13964	Wed	Russian intel	8x62.5Bd QPSK+250Bd BPSK	(AB)
<b>M42</b>	12-10	1110	9283	Wed	Russian intel	10Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	12-10	1115	10427	Wed	Russian intel	10Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	12-10	1120	11574	Wed	Russian intel	10Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	12-10	1125	12192	Wed	Russian intel	10Bd 16FSK+250Bd BPSK	(AB/PY/VSh)
<b>M42</b>	12-10	1130	13964	Wed	Russian intel	10Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	12-10	1135	14712	Wed	Russian intel	10Bd 16FSK+250Bd BPSK	(AB/PY/VSh)
<b>M42</b>	12-10	1150	11574	Wed	Russian intel	10Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	12-10	1155	12192	Wed	Russian intel	10Bd 16FSK+250Bd BPSK	(AB/PY/VSh)
<b>M42</b>	12-10	1200	13964	Wed	Russian intel	10Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	12-10	1245	9283	Wed	Russian intel	10Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	12-10	1250	10427	Wed	Russian intel	10Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	12-10	1255	11574	Wed	Russian intel	10Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	12-10	1300	12192	Wed	Russian intel	10Bd 16FSK+250Bd BPSK	(AB/PY/VSh)

<b>M42</b>	12-10	1305	13964	Wed	Russian intel	10Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	12-10	1310	14712	Wed	Russian intel	10Bd 16FSK+250Bd BPSK	(AB/PY/VSh)
<b>M42</b>	12-10	1330	9283	Wed	Russian intel	10Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	12-10	1335	10427	Wed	Russian intel	10Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	12-10	1340	11574	Wed	Russian intel	10Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	12-10	1345	12192	Wed	Russian intel	10Bd 16FSK+250Bd BPSK	(AB/PY/VSh)
<b>M42</b>	12-10	1350	13964	Wed	Russian intel	10Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	12-10	1355	14712	Wed	Russian intel	10Bd 16FSK+250Bd BPSK	(AB/PY/VSh)
<b>M42</b>	12-10	1400	9283	Wed	Russian intel	2x62.5Bd QPSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	12-10	1405	10427	Wed	Russian intel	2x62.5Bd QPSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	12-10	1410	11574	Wed	Russian intel	2x62.5Bd QPSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	12-10	1415	12192	Wed	Russian intel	2x62.5Bd QPSK+250Bd BPSK	(AB/PY/VSh)
<b>M42</b>	12-10	1420	13964	Wed	Russian intel	2x62.5Bd QPSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	12-10	1425	14712	Wed	Russian intel	2x62.5Bd QPSK+250Bd BPSK	(AB/PY/VSh)
<b>M42</b>	13-10	0845	9283	Thu	Russian intel, alternate waveform (1m35s)	5x10Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	13-10	0850	10427	Thu	Russian intel, alternate waveform (1m35s)	5x10Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	13-10	0855	11574	Thu	Russian intel, alternate waveform (1m35s)	5x10Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	13-10	1006	14630	Thu	Russian diplo	Serdolik v2	(AB)
<b>M42</b>	13-10	1100	10427	Thu	Russian intel, alternate waveform (1m24s)	5x10Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	13-10	1105	11574	Thu	Russian intel, alternate waveform (1m24s)	5x10Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	13-10	1135	11574	Thu	Russian intel, alternate waveform (2m05s)	5x10Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	13-10	1200	9283	Thu	Russian intel (2m44s)	5x10Bd 16FSK+ 250Bd BPSK	(PY/VSh)
<b>M42</b>	13-10	1210	10427	Thu	Russian intel (2m44s)	5x10Bd 16FSK+ 250Bd BPSK	(PY/VSh)
<b>M42</b>	13-10	1220	11574	Thu	Russian intel (2m44s)	5x10Bd 16FSK+ 250Bd BPSK	(PY/VSh)
<b>M42</b>	13-10	1230	12192	Thu	Russian intel (2m44s)	5x10Bd 16FSK+ 250Bd BPSK	(PY/VSh)
<b>M42</b>	13-10	1240	13964	Thu	Russian intel (2m44s)	5x10Bd 16FSK+ 250Bd BPSK	(PY/VSh)
<b>M42</b>	13-10	1250	14712	Thu	Russian intel (2m44s)	5x10Bd 16FSK+ 250Bd BPSK	(PY/VSh)
<b>M42</b>	13-10	1306	16156	Thu	Russian diplo/intel. Header 11100 70103 31914 13129 04009	FSK 140/500 + FSK CW	(VSh)

M42	14-10	0700	14712	Fri	Russian intel. 2-minute two-tone callup (2m28s)	PSK	(PY/VSh)
M42	14-10	0705	13964	Fri	Russian intel. 2-minute two-tone callup (2m28s)	PSK	(PY/VSh)
M42	14-10	0710	12192	Fri	Russian intel. 2-minute two-tone callup (2m28s)	PSK	(PY/VSh)
M42	14-10	0720	14712	Fri	Russian intel. 2-minute two-tone callup (2m16s)	PSK	(PY/VSh)
M42	14-10	0725	13964	Fri	Russian intel. 2-minute two-tone callup (2m16s)	PSK	(PY/VSh)
M42	14-10	0730	12192	Fri	Russian intel. 2-minute two-tone callup (2m16s)	PSK	(PY/VSh)
M42	14-10	0740	14712	Fri	Russian intel. No callup (16s)	PSK	(PY/VSh)
M42	14-10	0745	13964	Fri	Russian intel. No callup (16s)	PSK	(PY/VSh)
M42	14-10	0750	12192	Fri	Russian intel. No callup (16s)	PSK	(PY/VSh)
M42	14-10	0800	14712	Fri	Russian intel. 2-minute two-tone callup (2m16s)	PSK	(PY/VSh)
M42	14-10	0805	13964	Fri	Russian intel. 2-minute two-tone callup (2m16s)	PSK	(PY/VSh)
M42	14-10	0810	12192	Fri	Russian intel. 2-minute two-tone callup (2m16s)	PSK	(PY/VSh)
M42	14-10	0820	14712	Fri	Russian intel. No callup (16s)	PSK	(PY/VSh)
M42	14-10	0825	13964	Fri	Russian intel. No callup (16s)	PSK	(PY/VSh)
M42	14-10	0830	12192	Fri	Russian intel. No callup (16s)	PSK	(PY/VSh)
M42	14-10	0840	14712	Fri	Russian intel. Alternate waveform (49s)	PSK+PSK bursts	(PY/VSh)
M42	14-10	0848	10408	Fri	Russian diplo	MFSK-66	(AB)
M42	14-10	0849	12192	Fri	Russian intel. Carrier for 17s, no transmission following	USB	(PY/VSh)
M42	14-10	0855	11431	Fri	Russian intel. 5-second two-tone callup cut off at 3s	USB	(PY/VSh)
M42	14-10	0900	10643	Fri	Russian intel. Alternate waveform (49s)	PSK+PSK bursts	(PY/VSh)
M42	14-10	1020	14712	Fri	Russian intel. Alternate waveform (1m02s)	PSK+PSK bursts	(PY/VSh)
M42	14-10	1025	13964	Fri	Russian intel. Alternate waveform (1m02s)	PSK+PSK bursts	(PY/VSh)
M42	14-10	1030	12192	Fri	Russian intel. Alternate waveform (1m02s)	PSK+PSK bursts	(PY/VSh)
M42	14-10	1035	11431	Fri	Russian intel. Alternate waveform (1m02s)	PSK+PSK bursts	(PY/VSh)
M42	14-10	1040	10643	Fri	Russian intel. Alternate waveform (1m02s)	PSK+PSK bursts	(PY/VSh)
M42	14-10	1045	9142	Fri	Russian intel. Alternate waveform (1m02s)	PSK+PSK bursts	(PY/VSh)
M42	14-10	1100	14712	Fri	Russian intel. Alternate waveform (1m52s)	10Bd 16FSK+250Bd BPSK	(PY/VSh)
M42	14-10	1104	13964	Fri	Russian intel. 1104z: Carrier for 17s, no transmission following. 1105z: Carrier for 17s. 1106z and 1109: 1000Hz test tone	USB	(PY/VSh)
M42	14-10	1110	12192	Fri	Russian intel. Alternate waveform (1m52s)	10Bd 16FSK+250Bd BPSK	(PY/VSh)
M42	14-10	1115	11431	Fri	Russian intel. Alternate waveform (1m52s)	10Bd 16FSK+250Bd BPSK	(PY/VSh)
M42	14-10	1120	10643	Fri	Russian intel. Alternate waveform (1m52s)	10Bd 16FSK+250Bd BPSK	(PY/VSh)
M42	14-10	1125	9142	Fri	Russian intel. Alternate waveform (1m52s)	10Bd 16FSK+250Bd BPSK	(PY/VSh)
M42	14-10	1140	14712	Fri	Russian intel (1m42s)	10Bd 16FSK+250Bd BPSK	(PY/VSh)
M42	14-10	1150	13964	Fri	Russian intel (1m42s)	10Bd 16FSK+250Bd BPSK	(PY/VSh)
M42	14-10	1152	12192	Fri	Russian intel. Carrier for 17s no transmission following	USB	(PY/VSh)
M42	14-10	1200	14712	Fri	Russian intel. Alternate waveform cut off at 2m31s without outro	10Bd 16FSK+250Bd BPSK	(PY/VSh)
M42	14-10	1206	14712	Fri	Russian intel. Carrier for 19s	USB	(PY/VSh)
M42	14-10	1210	14712	Fri	Russian intel. Alternate waveform (1m52s)	10Bd 16FSK+250Bd BPSK	(PY/VSh)
M42	14-10	1215	13964	Fri	Russian intel. Alternate waveform (1m52s)	10Bd 16FSK+250Bd BPSK	(PY/VSh)
M42	14-10	1220	12192	Fri	Russian intel. Alternate waveform (1m52s). Cut off at 14s without outro (too short to include PSK)	10Bd 16FSK+250Bd BPSK	(PY/VSh)
M42	16-10	0730	10638	Sun	Russian diplo/intel.	MFSK-66	(AB)

<b>M42</b>	16-10	0745	12118	Sun	Russian diplo/intel.	MFSK-66	(AB)
<b>M42</b>	18-10	0800	9338	Tue	Russian intel (6m15s)	10Bd 16FSK+250Bd BPSK	(AB/PY/VSh)
<b>M42</b>	18-10	0810	10427	Tue	Russian intel (6m15s)	10Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	18-10	0820	11431	Tue	Russian intel (6m15s)	10Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	18-10	0830	9338	Tue	Russian intel (6m56s)	10Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	18-10	0840	10427	Tue	Russian intel (6m56s)	10Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	18-10	0850	11431	Tue	Russian intel (6m56s)	10Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	18-10	0923	20333	Tue	Russian diplo/intel.	MFSK-66	(AB)
<b>M42</b>	19-10	0740	9338	Wed	Russian intel. Cut off at 3m50s without outro	10Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	19-10	0744	10427	Wed	Russian intel. 0744z: Carrier for 15 seconds. 0745z: TX noise for 2 seconds no transmission. Carrier for 12 seconds	USB	(PY/VSh)
<b>M42</b>	19-10	0750	11431	Wed	Russian intel (3m34s)	10Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	19-10	0840	9338	Wed	Russian intel (3m34s)	10Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	19-10	0845	10427	Wed	Russian intel (3m34s)	10Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	19-10	0850	11431	Wed	Russian intel (3m34s)	10Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	20-10	0740	9338	Thu	Russian intel (3m34s)	10Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	20-10	0745	10427	Thu	Russian intel (3m34s)	10Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	20-10	0750	11431	Thu	Russian intel (3m34s)	10Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	20-10	0840	9338	Thu	Russian intel (3m34s)	10Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	20-10	0845	10427	Thu	Russian intel (3m34s)	10Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	20-10	0845	11431	Thu	Russian intel (3m34s)	10Bd 16FSK+250Bd BPSK	(PY/VSh)
<b>M42</b>	20-10	1300	16156	Thu	UAL UAL UAL BK. Header: 11100 70103 46825 20134 04009 K K K K K CFM NIL K SK	FSK 140/500 + FSK CW	(AB)
<b>M42</b>	21-10	1039	19478	Fri	Russian diplo	Serdolik V2	(AB)
<b>M42</b>	24-10	1122	10256	Mon	Russian intel. Carrier for 19s, 1123z: 1000Hz test tone + 5-second two-tone callup cut off at 3s	USB	(PY)
<b>M42</b>	24-10	1125	11431	Mon	Russian intel. Carrier for 17s	USB	(PY)
<b>M42</b>	24-10	1130	11431	Mon	Russian intel. Alternate waveform (22s, too short to include PSK bursts)	5x10Bd 16FSK+250Bd BPSK	(PY)
<b>M42</b>	24-10	1155	9142	Mon	Russian intel. (22s, too short to include PSK bursts)	5x10Bd 16FSK+250Bd BPSK	(PY)
<b>M42</b>	24-10	1200	10256	Mon	Russian intel. (22s, too short to include PSK bursts)	5x10Bd 16FSK+250Bd BPSK	(PY)
<b>M42</b>	24-10	1205	11431	Mon	Russian intel. (22s, too short to include PSK bursts)	5x10Bd 16FSK+250Bd BPSK	(PY)
<b>M42</b>	24-10	1220	9142	Mon	Russian intel. (1m13s)	5x10Bd 16FSK+250Bd BPSK	(PY)
<b>M42</b>	24-10	1225	10256	Mon	Russian intel. (1m13s)	5x10Bd 16FSK+250Bd BPSK	(PY)
<b>M42</b>	24-10	1230	11431	Mon	Russian intel. (1m13s)	5x10Bd 16FSK+250Bd BPSK	(PY)
<b>M42</b>	24-10	1245	14647	Mon	Russian intel. (25s)	PSK	(PY)
<b>M42</b>	24-10	1250	13526	Mon	Russian intel. (25s)	PSK	(PY)
<b>M42</b>	24-10	1255	11431	Mon	Russian intel. (25s)	PSK	(PY)
<b>M42</b>	24-10	1310	14647	Mon	Russian intel. (50s)	PSK+PSK bursts	(PY)
<b>M42</b>	24-10	1315	13526	Mon	Russian intel. (50s)	PSK+PSK bursts	(PY)
<b>M42</b>	24-10	1320	11431	Mon	Russian intel. (50s)	PSK+PSK bursts	(PY)
<b>M42</b>	24-10	1335	9142	Mon	Russian intel. (3m24s)	5x 10Bd 16FSK+250Bd BPSK	(PY)
<b>M42</b>	24-10	1340	10256	Mon	Russian intel. (3m24s)	5x 10Bd 16FSK+250Bd BPSK	(PY)
<b>M42</b>	24-10	1345	11431	Mon	Russian intel. (3m24s)	5x 10Bd 16FSK+250Bd BPSK	(PY)
<b>M42</b>	24-10	1400	9142	Mon	Russian intel. (22s, too short to include PSK burst)	5x 10Bd 16FSK+250Bd BPSK	(PY)

M42	24-10	1405	10256	Mon	Russian intel. (42s)	5x 10Bd 16FSK+250Bd BPSK	(PY)
M42	24-10	1410	11431	Mon	Russian intel. (42s)	5x 10Bd 16FSK+250Bd BPSK	(PY)
M42	24-10	1435	14647	Mon	Russian intel. (42s) No callup	PSK	(PY)
M42	24-10	1440	13526	Mon	Russian intel. (42s) No callup	PSK	(PY)
M42	25-10	0800	9142	Tue	Russian intel. (1m12s)	5x 10Bd 16FSK+250Bd BPSK	(PY)
M42	25-10	0805	10256	Tue	Russian intel. (1m12s)	5x 10Bd 16FSK+250Bd BPSK	(PY)
M42	25-10	0810	11431	Tue	Russian intel. (1m12s)	5x 10Bd 16FSK+250Bd BPSK	(PY)
M42	25-10	0825	11431	Tue	Russian intel. (1m43s)	5x 10Bd 16FSK+250Bd BPSK	(PY)
M42	25-10	0830	13526	Tue	Russian intel. (1m43s)	5x 10Bd 16FSK+250Bd BPSK	(PY)
M42	25-10	0835	14647	Tue	Russian intel. (1m43s)	5x 10Bd 16FSK+250Bd BPSK	(PY)
M42	25-10	0850	11431	Tue	Russian intel. (1m19s) No callup	PSK	(PY)
M42	25-10	0855	13526	Tue	Russian intel. (1m19s) No callup	PSK	(PY)
M42	25-10	0900	14647	Tue	Russian intel. (1m19s) No callup	PSK	(PY)
M42	25-10	1100	9142	Tue	Russian intel. (29s) No callup	PSK	(PY)
M42	25-10	1105	9338	Tue	Russian intel. (29s) No callup	PSK	(PY)
M42	25-10	1110	10256	Tue	Russian intel. (29s) No callup	PSK	(PY)
M42	25-10	1125	9142	Tue	Russian intel. (38s)	PSK+PSK bursts	(PY)
M42	25-10	1130	9338	Tue	Russian intel. (38s)	PSK+PSK bursts	(PY)
M42	25-10	1135	10256	Tue	Russian intel. (38s)	PSK+PSK bursts	(PY)
M42	25-10	1150	9142	Tue	Russian intel. (24s)	PSK	(PY)
M42	25-10	1155	9338	Tue	Russian intel. (24s)	PSK	(PY)
M42	25-10	1200	10256	Tue	Russian intel. (24s)	PSK	(PY)
M42	25-10	1205	9142	Tue	Russian intel. (24s)	PSK	(PY)
M42	25-10	1210	10256	Tue	Russian intel. (24s)	PSK	(PY)
M42	25-10	1215	11431	Tue	Russian intel. (24s)	PSK	(PY)
M42	25-10	1225	9142	Tue	Russian intel. (1m12s)	5x10Bd 16FSK+250Bd BPSK	(PY)
M42	25-10	1230	10256	Tue	Russian intel. (1m12s)	5x10Bd 16FSK+250Bd BPSK	(PY)
M42	25-10	1235	11431	Tue	Russian intel. (1m12s)	5x10Bd 16FSK+250Bd BPSK	(PY)
M42	26-10	0747	14657	Wed	Russian diplo	Serdolik v2	(AB)
M42	26-10	1300	9338	Wed	Russian intel. (25s)	PSK	(PY)
M42	26-10	1305	10427	Wed	Russian intel. (25s)	PSK	(PY)
M42	26-10	1310	11431	Wed	Russian intel. (25s)	PSK	(PY)
M42	27-10	0740	8094	Thu	Russian intel. (1m01s)	5x10Bd 16FSK+250Bd BPSK	(PY)
M42	27-10	0750	9142	Thu	Russian intel. (1m01s)	5x10Bd 16FSK+250Bd BPSK	(PY)
M42	27-10	0800	10256	Thu	Russian intel. (1m01s)	5x10Bd 16FSK+250Bd BPSK	(PY)
M42	27-10	0810	11431	Thu	Russian intel. (1m01s)	5x10Bd 16FSK+250Bd BPSK	(PY)
M42	27-10	0820	12153	Thu	Russian intel. (1m01s)	5x10Bd 16FSK+250Bd BPSK	(PY)
M42	27-10	0830	13526	Thu	Russian intel. (1m01s)	5x10Bd 16FSK+250Bd BPSK	(PY)
M42	27-10	0845	8094	Thu	Russian intel. (1m14s)	PSK+PSK bursts	(PY)
M42	27-10	0855	9142	Thu	Russian intel. (1m14s)	PSK+PSK bursts	(PY)
M42	27-10	0905	10256	Thu	Russian intel. (1m14s)	PSK+PSK bursts	(PY)
M42	27-10	0915	11431	Thu	Russian intel. (1m14s)	PSK+PSK bursts	(PY)



M42	27-10	0925	12153	Thu	Russian intel. (1m14s)	PSK+PSK bursts	(PY)
M42	27-10	0935	13526	Thu	Russian intel. (1m14s)	PSK+PSK bursts	(PY)
M42	27-10	1040	8094	Thu	Russian intel. (50s)	PSK+PSK bursts	(PY)
M42	27-10	1045	9142	Thu	Russian intel. (50s)	PSK+PSK bursts	(PY)
M42	27-10	1050	10256	Thu	Russian intel. (50s)	PSK+PSK bursts	(PY)
M42	27-10	1055	11431	Thu	Russian intel. (50s)	PSK+PSK bursts	(PY)
M42	27-10	1100	12153	Thu	Russian intel. (50s)	PSK+PSK bursts	(PY)
M42	27-10	1105	13526	Thu	Russian intel. (50s)	PSK+PSK bursts	(PY)
M42	27-10	1130	8094	Thu	Russian intel. (50s)	PSK+PSK bursts	(PY)
M42	27-10	1135	9236	Thu	Russian intel. (50s)	PSK+PSK bursts	(PY)
M42	27-10	1140	10256	Thu	Russian intel. (50s)	PSK+PSK bursts	(PY)
M42	27-10	1145	11431	Thu	Russian intel. (50s)	PSK+PSK bursts	(PY)
M42	27-10	1150	12153	Thu	Russian intel. (50s)	PSK+PSK bursts	(PY)
M42	27-10	1155	13526	Thu	Russian intel. (50s)	PSK+PSK bursts	(PY)
M42	27-10	1215	8094	Thu	Russian intel. (51s)	5x10Bd 16FSK+250Bd BPSK	(PY)
M42	27-10	1220	9236	Thu	Russian intel. (51s)	5x10Bd 16FSK+250Bd BPSK	(PY)
M42	27-10	1225	9380	Thu	Russian intel. (51s)	5x10Bd 16FSK+250Bd BPSK	(PY)
M42	27-10	1250	8094	Thu	Russian intel. Cut off at 1m33s without outro	PSK	(PY)
M42	27-10	1258	9142	Thu	Russian intel. No callup. (2m06s)	PSK	(PY)
M42	27-10	1300	16156	Thu	UAL UAL BK QSA4 K. Header: 11100 70103 30947 27139 04009 CFM K QRZ QDG 2 QSA? K CFM NIL K VVV NIL K SK	FSK 100/500 + FSK CW	(AB)
M42	27-10	1303	9236	Thu	Russian intel. No callup. (2m06s)	PSK	(PY)
M42	27-10	1310	8094	Thu	Russian intel. (1m15s)	PSK+PSK bursts	(PY)
M42	27-10	1315	9142	Thu	Russian intel. (1m15s)	PSK+PSK bursts	(PY)
M42	27-10	1320	9236	Thu	Russian intel. (1m15s)	PSK+PSK bursts	(PY)
M42	28-10	0700	8094	Fri	Russian intel. No callup (1m06s). Transmitter up at 0654z	PSK	(PY)
M42	28-10	0705	9142	Fri	Russian intel. No callup (1m06s)	PSK	(PY)
M42	28-10	0710	10256	Fri	Russian intel. No callup (1m06s)	PSK	(PY)
M42	28-10	0715	11431	Fri	Russian intel. No callup (1m06s)	PSK	(PY)
M42	28-10	0723	10256	Fri	Russian intel. Test tone	CW	(PY)
M42	28-10	0730	10256	Fri	Russian intel. (1m16s)	PSK+PSK bursts	(PY)
M42	28-10	0731	11431	Fri	Russian intel. carrier for 4s. 1733z: carrier for 14s. 0737z: TX noise for 8s, no proper trans	CW	(PY)
M42	28-10	0740	12153	Fri	Russian intel. (1m16s)	PSK+PSK bursts	(PY)
M42	28-10	0745	13526	Fri	Russian intel. (1m16s)	PSK+PSK bursts	(PY)
M42	28-10	0830	9357	Fri	Russian diplo/intel.	OFDM-121	(AB)
M42	28-10	0900	9142	Fri	Russian intel. No callup (1m18s)	PSK	(PY)
M42	28-10	0905	10256	Fri	Russian intel	2x62.5Bd QPSK	(AB)
M42	28-10	0905	10256	Fri	Russian intel	2x62.5Bd QPSK	(AB)
M42	28-10	0905	10256	Fri	Russian intel. No callup (1m18s)	PSK	(PY)
M42	28-10	0910	11431	Fri	Russian intel. No callup (1m18s)	PSK	(PY)
M42	28-10	0920	9142	Fri	Russian intel. No callup (16s)	PSK	(PY)
M42	28-10	0925	10256	Fri	Russian intel	8x62.5Bd QPSK	(AB)



<b>M42</b>	28-10	0925	10256	Fri	Russian intel. No callup (16s)	PSK	(PY)
<b>M42</b>	28-10	0930	11431	Fri	Russian intel. No callup (16s)	PSK	(PY)
<b>M42</b>	28-10	1040	9142	Fri	Russian intel. (2m54s)	5x10Bd 16FSK+250Bd BPSK	(PY)
<b>M42</b>	28-10	1045	10256	Fri	Russian intel.	5x10Bd 16FSK+250 Bd BPSK	(AB)
<b>M42</b>	28-10	1045	10256	Fri	Russian intel. (2m54s)	5x10Bd 16FSK+250Bd BPSK	(PY)
<b>M42</b>	28-10	1050	11431	Fri	Russian intel. (2m54s)	5x10Bd 16FSK+250Bd BPSK	(PY)
<b>M42</b>	28-10	1100	9142	Fri	Russian intel. (38s)	PSK+PSK bursts	(PY)
<b>M42</b>	28-10	1105	10256	Fri	Russian intel.	2x62.5Bd QPSK+250 Bd BPSK	(AB)
<b>M42</b>	28-10	1105	10256	Fri	Russian intel. (38s)	PSK+PSK bursts	(PY)
<b>M42</b>	28-10	1110	11431	Fri	Russian intel. (38s)	PSK+PSK bursts	(PY)
<b>M42</b>	28-10	1128	8094	Fri	Russian intel. Carrier for 15s. 1130z: 1000Hz test tone	CW	(PY)
<b>M42b</b>	11-10	1105	11429	Tue	K4MT K4MT K4MT DE NT9P NT9P K QSA3 QTC1 ZZC K 387 105 11 1049 51672 = 92724 09960 47422 62709 ... 32206 16185 30 ____ -1110= CFM NIL QRU? K RPT K	FSK 50/500 + FSK CW	(PY)
<b>M51a</b>	16-10	0820	3881	Sun	VVV VVV VVV DE FAV22 FAV22 FAV22 QLH 3881/6825 KHZ followed by two messages //6825 kHz	CW	(AB)
<b>M51a</b>	16-10	0820	6825	Sun	VVV VVV VVV DE FAV22 FAV22 FAV22 QLH 3881/6825 KHZ followed by two messages //3881 kHz	CW	(AB)
<b>M51b</b>	11-10	1825	5501	Tue	GVXHS WNQHA IKDLS ... LKFHT KHDYT XVDJK //6825 kHz	CW	(AB)
<b>M51b</b>	11-10	1825	6825	Tue	GVXHS WNQHA IKDLS ... LKFHT KHDYT XVDJK //5501 kHz	CW	(AB)
<b>M51b</b>	16-10	0900	3881	Sun	Non-stop 5-character groups composed of M51a messages //6825 kHz	CW	(AB)
<b>M51b</b>	16-10	0900	6825	Sun	Non-stop 5-character groups composed of M51a messages //3881 kHz	CW	(AB)
<b>M51b</b>	26-10	1625	3881	Wed	Non-stop 5 chr groups composed from M51a messages //6825 kHz	CW	(AB)
<b>M51b</b>	26-10	1625	6825	Wed	Non-stop 5 chr groups composed from M51a messages //3881 kHz	CW	(AB)
<b>M89</b>	9-10	1111	3596	Sun	V QYE2 (x3) DE 9WFFV (x2) //6824	CW	(JPL)
<b>M89</b>	9-10	1111	6824	Sun	V QYE2 (x3) DE 9WFFV (x2) //3596	CW	(JPL)
<b>M89</b>	9-10	1115	4853	Sun	RPT 1P 36W 4T7D 4T7N K RPT 1P 50W 6N76 6N76 K RPT 2P 08W ATAU ATAU K RPT2P 13W 4T5N 4T5N K R GA K	CW	(JPL)
<b>M89</b>	9-10	1120	4860	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //6840	CW	(JPL)
<b>M89</b>	9-10	1120	6840	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //4860	CW	(JPL)
<b>M89</b>	9-10	1130	4720	Sun	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K //5150	CW	(JPL)
<b>M89</b>	9-10	1130	5150	Sun	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K //4720	CW	(JPL)
<b>M89</b>	30-10	1214	4985	Sun	i.p. R FF NR 69 4/EX 2014 RMKS 0141 TO 0166 = EF/G75 AR NR 6994/EX 2014 RMKS 0141 TO 0166 = EF/G75	CW	(JPL)
<b>M89</b>	30-10	1216	5014	Sun	i.p. 576D NAU 3456 437D ...	CW	(JPL)
<b>M89</b>	30-10	1220	4860	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
<b>M89</b>	30-10	1220	6840	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //4860	CW	(JPL)
<b>M89</b>	30-10	1221	4457	Sun	VVV (x3) Q5Z1 (x3) DE W2XB (x2)	CW	(JPL)
<b>M89</b>	30-10	1227	3596	Sun	V QYE2 (x3) DE 9WFFV (x2)	CW	(JPL)
<b>M89</b>	30-10	1230	4720	Sun	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K //5150	CW	(JPL)
<b>M89</b>	30-10	1230	5150	Sun	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K //4720	CW	(JPL)
<b>M95</b>	9-10	1052	5651	Sun	V XP5B (x3) DE S2DJ (x2) //12039	CW	(JPL)
<b>M95</b>	9-10	1052	12039	Sun	V XP5B (x3) DE S2DJ (x2) //5651	CW	(JPL)
<b>M95</b>	9-10	1146	4364	Sun	V BNGC (x3) DE XSV85 (X2) HR MSGS GA PSE CY NR 0767 CK 518 35 1009 1601 = //8073	CW	(JPL)

<b>M95</b>	9-10	1146	8073	Sun	V BNGC (x3) DE XSV85 (X2) HR MSGS GA PSE CY NR 0767 CK 518 35 1009 1601 = //4364	CW	(JPL)
<b>M95</b>	9-10	1152	9054	Sun	343 N3U 3D4 TT3 ...	CW	(JPL)
<b>M95</b>	18-10	1310	4283	Tue	XSV70 wkg BNEC = NR 939 CK 117 35 10 18 1634 = 3U6 3A4 007 773 34A U46 353 4A7 445 ff = (message repeated twice)	CW	(Mario-J)
<b>M95</b>	30-10	1156	4243	Sun	i.p. TT6 773 3UD 353 373 N3D //9054	CW	(JPL)
<b>M95</b>	30-10	1158	4364	Sun	BNGC DE XSV85 i.p. 773 TU6 773 T.7 773 TUN 773 7AN 7AD ... AR //8073	CW	(JPL)
<b>M95</b>	30-10	1158	8073	Sun	BNGC DE XSV85 i.p. 773 TU6 773 T.7 773 TUN 773 7AN 7AD ... AR //8073 4364	CW	(JPL)
<b>M95</b>	30-10	1207	5651	Sun	V XP5B (x3) DE S2DJ (x2) //12039	CW	(JPL)
<b>M95</b>	30-10	1207	12039	Sun	V XP5B (x3) DE S2DJ (x2) //5651	CW	(JPL)
<b>M95</b>	30-10	1242	4754	Sun	i.p. R RPT 8.W TO 90W = 5DAN AN3T 3756 5NA6 5NAT TNA3 5DNU 35TD ATU6 53NT AR K	CW	(JPL)
<b>MC03</b>	18-10	1300	4167.5	Tue	Chinese Air Defense i.p. d54 uaau56 u5 = d54 ua5a74 n5ta636 tn7 u5 = d55 u3au3a u7atu34 a55 u6 =	CW	(Mario-J)
<b>P03</b>	1-10	1935	6940	Sat	Polish intel.	BPSK	(AB)
<b>P03</b>	1-10	1940	6940	Sat	Polish intel.	BPSK	(AB)
<b>P03</b>	2-10	1935	6940	Sun	Polish intel.	BPSK	(AB)
<b>P03</b>	2-10	1940	6940	Sun	Polish intel.	BPSK	(AB)
<b>P03</b>	3-10	1935	6940	Mon	Polish intel.	BPSK	(AB)
<b>P03</b>	3-10	1940	6940	Mon	Polish intel.	BPSK	(AB)
<b>P03</b>	4-10	1935	6940	Tue	Polish intel.	BPSK	(AB)
<b>P03</b>	4-10	1940	6940	Tue	Polish intel. mixing with XBP1	BPSK	(AB)
<b>P03</b>	5-10	1935	6940	Wed	Polish intel.	BPSK	(AB)
<b>P03</b>	5-10	1940	6940	Wed	Polish intel.	BPSK	(AB)
<b>P03</b>	6-10	1935	6940	Thu	Polish intel.	BPSK	(AB)
<b>P03</b>	6-10	1940	6940	Thu	Polish intel.	BPSK	(AB)
<b>P03</b>	7-10	1935	6940	Fri	Polish intel.	PSK	(AB)
<b>P03</b>	7-10	1940	6940	Fri	Polish intel.	PSK	(AB)
<b>P03</b>	8-10	1935	6940	Sat	Polish intel.	BPSK	(AB)
<b>P03</b>	8-10	1940	6940	Sat	Polish intel.	BPSK	(AB)
<b>P03</b>	9-10	1935	6940	Sun	Polish intel.	BPSK	(AB)
<b>P03</b>	9-10	1940	6940	Sun	Polish intel.	BPSK	(AB)
<b>P03</b>	10-10	1935	6940	Mon	Polish intel.	BPSK	(AB)
<b>P03</b>	10-10	1940	6940	Mon	Polish intel.	BPSK	(AB)
<b>P03</b>	11-10	1935	6940	Tue	Polish intel.	BPSK	(AB)
<b>P03</b>	11-10	1940	6940	Tue	Polish intel.	BPSK	(AB)
<b>P03</b>	12-10	1935	6940	Wed	Polish intel.	BPSK	(AB)
<b>P03</b>	12-10	1940	6940	Wed	Polish intel.	BPSK	(AB)
<b>P03</b>	13-10	1935	6940	Thu	Polish intel.	BPSK	(AB)
<b>P03</b>	13-10	1940	6940	Thu	Polish intel.	BPSK	(AB)
<b>P03</b>	14-10	1935	6940	Fri	Polish intel.	PSK	(AB)
<b>P03</b>	14-10	1940	6940	Fri	Polish intel.	PSK	(AB)
<b>P03</b>	15-10	1935	6940	Sat	Polish intel.	BPSK	(AB)
<b>P03</b>	15-10	1940	6940	Sat	Polish intel.	BPSK	(AB)

P03	16-10	1935	6940	Sun	Polish intel.	BPSK	(AB)
P03	16-10	1940	6940	Sun	Polish intel.	BPSK	(AB)
P03	17-10	1935	6940	Mon	Polish intel.	BPSK	(AB)
P03	17-10	1940	6940	Mon	Polish intel.	BPSK	(AB)
P03	18-10	1935	6940	Tue	Polish intel.	BPSK	(AB)
P03	18-10	1940	6940	Tue	Polish intel.	BPSK	(AB)
P03	19-10	1935	6940	Wed	Polish intel.	BPSK	(AB)
P03	19-10	1940	6940	Wed	Polish intel.	BPSK	(AB)
P03	20-10	1935	6940	Thu	Polish intel.	BPSK	(AB)
P03	20-10	1940	6940	Thu	Polish intel.	BPSK	(AB)
P03	21-10	1935	6940	Fri	Polish intel.	PSK	(AB)
P03	21-10	1940	6940	Fri	Polish intel.	PSK	(AB)
P03	22-10	1935	6940	Sat	Polish intel.	BPSK	(AB)
P03	22-10	1940	6940	Sat	Polish intel.	BPSK	(AB)
P03	23-10	1935	6940	Sun	Polish intel.	BPSK	(AB)
P03	23-10	1940	6940	Sun	Polish intel.	BPSK	(AB)
P03	24-10	1935	6940	Mon	Polish intel.	BPSK	(AB)
P03	24-10	1940	6940	Mon	Polish intel.	BPSK	(AB)
P03	25-10	1935	6940	Tue	Polish intel.	BPSK	(AB)
P03	25-10	1940	6940	Tue	Polish intel.	BPSK	(AB)
P03	26-10	1935	6940	Wed	Polish intel.	BPSK	(AB)
P03	26-10	1940	6940	Wed	Polish intel.	BPSK	(AB)
P03	27-10	1935	6940	Thu	Polish intel.	BPSK	(AB)
P03	27-10	1940	6940	Thu	Polish intel.	BPSK	(AB)
P03	28-10	1935	6940	Fri	Polish intel.	PSK	(AB)
P03	28-10	1940	6940	Fri	Polish intel.	PSK	(AB)
P03	29-10	1935	6940	Sat	Polish intel.	BPSK	(AB)
P03	29-10	1940	6940	Sat	Polish intel.	BPSK	(AB)
P03	30-10	1935	6940	Sun	Polish intel.	BPSK	(AB)
P03	30-10	1940	6940	Sun	Polish intel.	BPSK	(AB)
P03	31-10	1935	6940	Mon	Polish intel.	BPSK	(AB)
P03	31-10	1940	6940	Mon	Polish intel.	BPSK	(AB)
P03e	2-10	1515	14972	Sun	Polish intel.	QPSK 100Bd/488bp	(AB)
P03e	2-10	1520	14972	Sun	Polish intel.	QPSK 100Bd/488bp	(AB)
P03e	2-10	1725	5409	Sun	Polish intel.	QPSK 100Bd/488bp	(AB)
P03e	2-10	1730	5409	Sun	Polish intel.	QPSK 100Bd/488bp	(AB)
P03e	3-10	0530	13911	Mon	Polish intel.	QPSK 100Bd/488bp	(AB)
P03e	3-10	0535	13911	Mon	Polish intel.	QPSK 100Bd/488bp	(AB)
P03e	4-10	1725	5409	Tue	Polish intel.	QPSK 100Bd/488bp	(AB)
P03e	4-10	1730	5409	Tue	Polish intel.	QPSK 100Bd/488bp	(AB)
P03e	5-10	0530	13911	Wed	Polish intel.	QPSK 100Bd/488bp	(AB)
P03e	5-10	0535	13911	Wed	Polish intel.	QPSK 100Bd/488bp	(AB)

P03e	7-10	1515	14972	Fri	Polish intel.	QPSK 100Bd/488bp	(AB)
P03e	7-10	1520	14972	Fri	Polish intel.	QPSK 100Bd/488bp	(AB)
P03e	9-10	1515	14972	Sun	Polish intel.	QPSK 100Bd/488bp	(AB/MPJ)
P03e	9-10	1520	14972	Sun	Polish intel.	QPSK 100Bd/488bp	(AB/MPJ)
P03e	9-10	1725	5409	Sun	Polish intel.	QPSK 100Bd/488bp	(AB)
P03e	9-10	1730	5409	Sun	Polish intel.	QPSK 100Bd/488bp	(AB)
P03e	10-10	0530	13911	Mon	Polish intel.	QPSK 100Bd/488bp	(AB)
P03e	10-10	0535	13911	Mon	Polish intel.	QPSK 100Bd/488bp	(AB)
P03e	11-10	1725	5409	Tue	Polish intel.	QPSK 100Bd/488bp	(AB)
P03e	11-10	1730	5409	Tue	Polish intel.	QPSK 100Bd/488bp	(AB)
P03e	12-10	0530	13911	Wed	Polish intel.	QPSK 100Bd/488bp	(AB)
P03e	12-10	0535	13911	Wed	Polish intel.	QPSK 100Bd/488bp	(AB)
P03e	14-10	1515	14972	Fri	Polish intel.	QPSK 100Bd/488bp	(AB/XAH/MPJ)
P03e	14-10	1520	14972	Fri	Polish intel.	QPSK 100Bd/488bp	(AB/XAH/MPJ)
P03e	16-10	1515	14972	Sun	Polish intel.	QPSK 100Bd/488bp	(AB/MPJ)
P03e	16-10	1520	14972	Sun	Polish intel.	QPSK 100Bd/488bp	(AB/MPJ)
P03e	16-10	1725	5409	Sun	Polish intel.	QPSK 100Bd/488bp	(AB)
P03e	16-10	1730	5409	Sun	Polish intel.	QPSK 100Bd/488bp	(AB)
P03e	17-10	0530	13911	Mon	Polish intel.	QPSK 100Bd/488bp	(AB)
P03e	17-10	0535	13911	Mon	Polish intel.	QPSK 100Bd/488bp	(AB)
P03e	18-10	1725	5409	Tue	Polish intel.	QPSK 100Bd/488bp	(AB)
P03e	18-10	1730	5409	Tue	Polish intel.	QPSK 100Bd/488bp	(AB)
P03e	19-10	0530	13911	Wed	Polish intel.	QPSK 100Bd/488bp	(AB)
P03e	19-10	0535	13911	Wed	Polish intel.	QPSK 100Bd/488bp	(AB)
P03e	21-10	1515	14972	Fri	Polish intel.	QPSK 100Bd/488bp	(AB)
P03e	21-10	1520	14972	Fri	Polish intel.	QPSK 100Bd/488bp	(AB)
P03e	23-10	1515	14972	Sun	Polish intel.	QPSK 100Bd/488bp	(AB)
P03e	23-10	1520	14972	Sun	Polish intel.	QPSK 100Bd/488bp	(AB)
P03e	23-10	1725	5409	Sun	Polish intel.	QPSK 100Bd/488bp	(AB)
P03e	23-10	1730	5409	Sun	Polish intel.	QPSK 100Bd/488bp	(AB)
P03e	24-10	0530	13911	Mon	Polish intel.	QPSK 100Bd/488bp	(AB)
P03e	24-10	0535	13911	Mon	Polish intel.	QPSK 100Bd/488bp	(AB)
P03e	25-10	1725	5409	Tue	Polish intel.	QPSK 100Bd/488bp	(AB)
P03e	25-10	1730	5409	Tue	Polish intel.	QPSK 100Bd/488bp	(AB)
P03e	26-10	0530	13911	Wed	Polish intel.	QPSK 100Bd/488bp	(AB)
P03e	26-10	0535	13911	Wed	Polish intel.	QPSK 100Bd/488bp	(AB)
P03e	28-10	1515	14972	Fri	Polish intel.	QPSK 100Bd/488bp	(AB/MPJ)
P03e	28-10	1520	14972	Fri	Polish intel.	QPSK 100Bd/488bp	(AB/MPJ)
P03e	30-10	1515	14972	Sun	Polish intel.	QPSK 100Bd/488bp	(AB/MPJ)
P03e	30-10	1520	14972	Sun	Polish intel.	QPSK 100Bd/488bp	(AB/MPJ)
P03e	30-10	1725	5409	Sun	Polish intel.	QPSK 100Bd/488bp	(AB/MPJ)
P03e	30-10	1730	5409	Sun	Polish intel.	QPSK 100Bd/488bp	(AB/MPJ)

P03e	31-10	0530	13911	Mon	Polish intel.	QPSK 100Bd/488bp	(AB)
P03e	31-10	0535	13911	Mon	Polish intel.	QPSK 100Bd/488bp	(AB)
P03g	4-10	1800	7840	Tue	Polish intel.	BPSK 50Bd/464bp	(AB/MPJ)
P03g	4-10	1805	7840	Tue	Polish intel.	BPSK 50Bd/464bp	(AB/MPJ)
P03g	6-10	1800	7840	Thu	Polish intel.	BPSK 50Bd/464bp	(AB/MPJ)
P03g	6-10	1805	7840	Thu	Polish intel.	BPSK 50Bd/464bp	(AB/MPJ)
P03g	11-10	1800	7840	Tue	Polish intel.	BPSK 50Bd/464bp	(AB/MPJ)
P03g	11-10	1805	7840	Tue	Polish intel.	BPSK 50Bd/464bp	(AB/MPJ)
P03g	13-10	1800	7840	Thu	Polish intel.	BPSK 50Bd/464bp	(AB/MPJ)
P03g	13-10	1805	7840	Thu	Polish intel.	BPSK 50Bd/464bp	(AB/MPJ)
P03g	18-10	1800	7840	Tue	Polish intel.	BPSK 50Bd/464bp	(AB/MPJ)
P03g	18-10	1805	7840	Tue	Polish intel.	BPSK 50Bd/464bp	(AB/MPJ)
P03g	20-10	1800	7840	Thu	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	20-10	1805	7840	Thu	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	25-10	1800	7840	Tue	Polish intel.	BPSK 50Bd/464bp	(AB/MPJ)
P03g	25-10	1805	7840	Tue	Polish intel.	BPSK 50Bd/464bp	(AB/MPJ)
P03g	27-10	1800	7840	Thu	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	27-10	1805	7840	Thu	Polish intel.	BPSK 50Bd/464bp	(AB)
P03k	1-10	0630	7600	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	1-10	0635	7600	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	1-10	1200	5082	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	1-10	1205	5082	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	1-10	1230	15795	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	1-10	1235	15795	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	1-10	1310	10213	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	1-10	1315	10213	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	1-10	1800	4356	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	1-10	1805	4356	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	2-10	0630	7600	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	2-10	0635	7600	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	2-10	1100	8180	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	2-10	1105	8180	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	2-10	1200	5082	Sun	Polish intel.	BPSK 100Bd/480bp	(AB-POL)
P03k	2-10	1205	5082	Sun	Polish intel.	BPSK 100Bd/480bp	(AB-POL)
P03k	2-10	1220	8544	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	2-10	1225	8544	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	2-10	1950	5371	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	2-10	1955	5371	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	3-10	1220	8544	Mon	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	3-10	1225	8544	Mon	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	3-10	1950	5371	Mon	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	3-10	1955	5371	Mon	Polish intel.	BPSK 100Bd/480bp	(AB)

P03k	4-10	1230	15795	Tue	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	4-10	1235	15795	Tue	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	5-10	1310	10213	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	5-10	1315	10213	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	5-10	1800	4356	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	5-10	1805	4356	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	6-10	1950	5371	Thu	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	6-10	1955	5371	Thu	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	7-10	0530	9200	Fri	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	7-10	0535	9200	Fri	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	7-10	1100	8180	Fri	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	7-10	1105	8180	Fri	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	8-10	0630	7600	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	8-10	0635	7600	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	8-10	1200	5082	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	8-10	1205	5082	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	8-10	1230	15795	Sat	Polish intel.	BPSK 100Bd/480bp	(AB/MPJ)
P03k	8-10	1235	15795	Sat	Polish intel.	BPSK 100Bd/480bp	(AB/MPJ)
P03k	8-10	1310	10213	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	8-10	1315	10213	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	8-10	1800	4356	Sat	Polish intel.	BPSK 100Bd/480bp	(AB/MPJ)
P03k	8-10	1805	4356	Sat	Polish intel.	BPSK 100Bd/480bp	(AB/MPJ)
P03k	9-10	0530	9200	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	9-10	0535	9200	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	9-10	0630	7600	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	9-10	0635	7600	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	9-10	1100	8180	Sun	Polish intel.	BPSK 100Bd/480bp	(AB/MPJ)
P03k	9-10	1105	8180	Sun	Polish intel.	BPSK 100Bd/480bp	(AB/MPJ)
P03k	9-10	1200	5082	Sun	Polish intel.	BPSK 100Bd/480bp	(AB-POL/MPJ-HOL)
P03k	9-10	1205	5082	Sun	Polish intel.	BPSK 100Bd/480bp	(AB-POL/MPJ-HOL)
P03k	9-10	1220	8544	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	9-10	1225	8544	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	9-10	1950	5371	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	9-10	1955	5371	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	10-10	1220	8544	Mon	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	10-10	1225	8544	Mon	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	10-10	1950	5371	Mon	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	10-10	1955	5371	Mon	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	11-10	1230	15795	Tue	Polish intel.	BPSK 100Bd/480bp	(AB/MPJ)
P03k	11-10	1235	15795	Tue	Polish intel.	BPSK 100Bd/480bp	(AB/MPJ)
P03k	12-10	1310	10213	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	12-10	1315	10213	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)



P03k	12-10	1800	4356	Wed	Polish intel.	BPSK 100Bd/480bp	(AB/MPJ)
P03k	12-10	1805	4356	Wed	Polish intel.	BPSK 100Bd/480bp	(AB/MPJ)
P03k	13-10	1950	5371	Thu	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	13-10	1955	5371	Thu	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	14-10	0530	9200	Fri	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	14-10	0535	9200	Fri	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	14-10	1100	8180	Fri	Polish intel.	BPSK 100Bd/480bp	(AB/XAH)
P03k	14-10	1105	8180	Fri	Polish intel.	BPSK 100Bd/480bp	(AB/XAH)
P03k	15-10	0630	7600	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	15-10	0635	7600	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	15-10	1200	5082	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	15-10	1205	5082	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	15-10	1230	15795	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	15-10	1235	15795	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	15-10	1310	10213	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	15-10	1315	10213	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	15-10	1800	4356	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	15-10	1805	4356	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	16-10	0530	9200	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	16-10	0535	9200	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	16-10	0630	7600	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	16-10	0635	7600	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	16-10	1100	8180	Sun	Polish intel.	BPSK 100Bd/480bp	(AB/MPJ)
P03k	16-10	1105	8180	Sun	Polish intel.	BPSK 100Bd/480bp	(AB/MPJ)
P03k	16-10	1200	5082	Sun	Polish intel.	BPSK 100Bd/480bp	(AB-POL/MPJ)
P03k	16-10	1205	5082	Sun	Polish intel.	BPSK 100Bd/480bp	(AB-POL/MPJ)
P03k	16-10	1220	8544	Sun	Polish intel.	BPSK 100Bd/480bp	(AB/MPJ)
P03k	16-10	1225	8544	Sun	Polish intel.	BPSK 100Bd/480bp	(AB/MPJ)
P03k	16-10	1950	5371	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	16-10	1955	5371	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	17-10	1220	8544	Mon	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	17-10	1225	8544	Mon	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	18-10	1230	15795	Tue	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	18-10	1235	15795	Tue	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	19-10	1310	10213	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	19-10	1315	10213	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	19-10	1800	4356	Wed	Polish intel.	BPSK 100Bd/480bp	(AB/MPJ)
P03k	19-10	1805	4356	Wed	Polish intel.	BPSK 100Bd/480bp	(AB/MPJ)
P03k	20-10	1950	5371	Thu	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	20-10	1955	5371	Thu	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	21-10	0530	9200	Fri	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	21-10	0535	9200	Fri	Polish intel.	BPSK 100Bd/480bp	(AB)



P03k	21-10	1100	8180	Fri	Polish intel.	BPSK 100Bd/480bp	(AB/MPJ)
P03k	21-10	1105	8180	Fri	Polish intel.	BPSK 100Bd/480bp	(AB/MPJ)
P03k	22-10	0630	7600	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	22-10	0635	7600	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	22-10	1200	5082	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	22-10	1205	5082	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	22-10	1230	15795	Sat	Polish intel.	BPSK 100Bd/480bp	(AB/MPJ)
P03k	22-10	1235	15795	Sat	Polish intel.	BPSK 100Bd/480bp	(AB/MPJ)
P03k	22-10	1310	10213	Sat	Polish intel.	BPSK 100Bd/480bp	(AB/MPJ)
P03k	22-10	1315	10213	Sat	Polish intel.	BPSK 100Bd/480bp	(AB/MPJ)
P03k	22-10	1800	4356	Sat	Polish intel.	BPSK 100Bd/480bp	(AB/MPJ)
P03k	22-10	1805	4356	Sat	Polish intel.	BPSK 100Bd/480bp	(AB/MPJ)
P03k	23-10	0530	9200	Sun	Polish intel.	BPSK 100Bd/480bp	(AB-POL)
P03k	23-10	0535	9200	Sun	Polish intel.	BPSK 100Bd/480bp	(AB-POL)
P03k	23-10	0630	7600	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	23-10	0635	7600	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	23-10	1100	8180	Sun	Polish intel.	BPSK 100Bd/480bp	(AB/MPJ)
P03k	23-10	1105	8180	Sun	Polish intel.	BPSK 100Bd/480bp	(AB/MPJ)
P03k	23-10	1200	5082	Sun	Polish intel.	BPSK 100Bd/480bp	(AB-POL/MPJ)
P03k	23-10	1205	5082	Sun	Polish intel.	BPSK 100Bd/480bp	(AB-POL/MPJ)
P03k	23-10	1220	8544	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	23-10	1225	8544	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	23-10	1950	5371	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	23-10	1955	5371	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	24-10	1220	8544	Mon	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	24-10	1225	8544	Mon	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	25-10	1230	15795	Tue	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	25-10	1235	15795	Tue	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	26-10	1310	10213	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	26-10	1315	10213	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	26-10	1800	4356	Wed	Polish intel.	BPSK 100Bd/480bp	(AB/MPJ)
P03k	26-10	1805	4356	Wed	Polish intel.	BPSK 100Bd/480bp	(AB/MPJ)
P03k	27-10	1950	5371	Thu	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	27-10	1955	5371	Thu	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	28-10	0530	9200	Fri	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	28-10	0535	9200	Fri	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	28-10	1100	8180	Fri	Polish intel.	BPSK 100Bd/480bp	(AB/MPJ)
P03k	28-10	1105	8180	Fri	Polish intel.	BPSK 100Bd/480bp	(AB/MPJ)
P03k	29-10	0630	7600	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	29-10	0635	7600	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	29-10	1200	5082	Sat	Polish intel.	BPSK 100Bd/480bp	(AB/MPJ)
P03k	29-10	1205	5082	Sat	Polish intel.	BPSK 100Bd/480bp	(AB/MPJ)

P03k	29-10	1230	15795	Sat	Polish intel.	BPSK 100Bd/480bp	(AB/MPJ)
P03k	29-10	1235	15795	Sat	Polish intel.	BPSK 100Bd/480bp	(AB/MPJ)
P03k	29-10	1310	10213	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	29-10	1315	10213	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	29-10	1800	4356	Sat	Polish intel.	BPSK 100Bd/480bp	(AB/MPJ)
P03k	29-10	1805	4356	Sat	Polish intel.	BPSK 100Bd/480bp	(AB/MPJ)
P03k	30-10	0530	9200	Sun	Polish intel.	BPSK 100Bd/480bp	(AB-POL)
P03k	30-10	0535	9200	Sun	Polish intel.	BPSK 100Bd/480bp	(AB-POL)
P03k	30-10	0630	7600	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	30-10	0635	7600	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	30-10	1100	8180	Sun	Polish intel.	BPSK 100Bd/480bp	(AB/MPJ)
P03k	30-10	1105	8180	Sun	Polish intel.	BPSK 100Bd/480bp	(AB/MPJ)
P03k	30-10	1200	5082	Sun	Polish intel.	BPSK 100Bd/480bp	(AB-POL/MPJ)
P03k	30-10	1205	5082	Sun	Polish intel.	BPSK 100Bd/480bp	(AB-POL/MPJ)
P03k	30-10	1220	8544	Sun	Polish intel.	BPSK 100Bd/480bp	(AB/MPJ)
P03k	30-10	1225	8544	Sun	Polish intel.	BPSK 100Bd/480bp	(AB/MPJ)
P03k	30-10	1950	5371	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	30-10	1955	5371	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	31-10	1220	8544	Mon	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	31-10	1225	8544	Mon	Polish intel.	BPSK 100Bd/480bp	(AB)
P03l	1-10	1245	5344	Sat	Polish intel.	QPSK 100Bd/464bp	(AB-POL)
P03l	1-10	1250	5344	Sat	Polish intel.	QPSK 100Bd/464bp	(AB-POL)
P03l	2-10	1245	5344	Sun	Polish intel.	QPSK 100Bd/464bp	(AB-POL/MPJ)
P03l	2-10	1250	5344	Sun	Polish intel.	QPSK 100Bd/464bp	(AB-POL/MPJ)
P03l	3-10	1200	4909	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	3-10	1205	4909	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	5-10	1345	7984	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	5-10	1350	7984	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	6-10	1200	4909	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	6-10	1205	4909	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	7-10	1345	7984	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	7-10	1350	7984	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	8-10	1245	5344	Sat	Polish intel.	QPSK 100Bd/464bp	(AB/MPJ)
P03l	8-10	1250	5344	Sat	Polish intel.	QPSK 100Bd/464bp	(AB/MPJ)
P03l	9-10	1245	5344	Sun	Polish intel.	QPSK 100Bd/464bp	(AB/MPJ)
P03l	9-10	1250	5344	Sun	Polish intel.	QPSK 100Bd/464bp	(AB/MPJ)
P03l	10-10	1200	4909	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	10-10	1205	4909	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	12-10	1345	7984	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	12-10	1350	7984	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	13-10	0430	10210	Thu	Polish intel.	QPSK 100Bd/464bp	(AB-POL)
P03l	13-10	0435	10210	Thu	Polish intel.	QPSK 100Bd/464bp	(AB-POL)

P03I	13-10	1200	4909	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	13-10	1205	4909	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	14-10	1345	7984	Fri	Polish intel.	QPSK 100Bd/464bp	(AB/MPJ)
P03I	14-10	1350	7984	Fri	Polish intel.	QPSK 100Bd/464bp	(AB/MPJ)
P03I	15-10	1245	5344	Sat	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	15-10	1250	5344	Sat	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	16-10	1245	5344	Sun	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	16-10	1250	5344	Sun	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	17-10	1200	4909	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	17-10	1205	4909	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	18-10	0430	10210	Tue	Polish intel.	QPSK 100Bd/464bp	(AB-POL)
P03I	18-10	0435	10210	Tue	Polish intel.	QPSK 100Bd/464bp	(AB-POL)
P03I	19-10	1345	7984	Wed	Polish intel.	QPSK 100Bd/464bp	(AB/MPJ)
P03I	19-10	1350	7984	Wed	Polish intel.	QPSK 100Bd/464bp	(AB/MPJ)
P03I	20-10	0430	10210	Thu	Polish intel.	QPSK 100Bd/464bp	(AB-POL)
P03I	20-10	0435	10210	Thu	Polish intel.	QPSK 100Bd/464bp	(AB-POL)
P03I	20-10	1200	4909	Thu	Polish intel.	QPSK 100Bd/464bp	(AB-POL/MPJ)
P03I	20-10	1205	4909	Thu	Polish intel.	QPSK 100Bd/464bp	(AB-POL/MPJ)
P03I	21-10	1345	7984	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	21-10	1350	7984	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	22-10	1245	5344	Sat	Polish intel.	QPSK 100Bd/464bp	(AB/MPJ)
P03I	22-10	1250	5344	Sat	Polish intel.	QPSK 100Bd/464bp	(AB/MPJ)
P03I	23-10	1245	5344	Sun	Polish intel.	QPSK 100Bd/464bp	(AB/MPJ)
P03I	23-10	1250	5344	Sun	Polish intel.	QPSK 100Bd/464bp	(AB/MPJ)
P03I	24-10	1200	4909	Mon	Polish intel.	QPSK 100Bd/464bp	(AB-POL)
P03I	24-10	1205	4909	Mon	Polish intel.	QPSK 100Bd/464bp	(AB-POL)
P03I	25-10	0430	10210	Tue	Polish intel.	QPSK 100Bd/464bp	(AB-POL)
P03I	25-10	0435	10210	Tue	Polish intel.	QPSK 100Bd/464bp	(AB-POL)
P03I	26-10	1345	7984	Wed	Polish intel.	QPSK 100Bd/464bp	(AB/MPJ)
P03I	26-10	1350	7984	Wed	Polish intel.	QPSK 100Bd/464bp	(AB/MPJ)
P03I	27-10	0430	10210	Thu	Polish intel.	QPSK 100Bd/464bp	(AB-POL)
P03I	27-10	0435	10210	Thu	Polish intel.	QPSK 100Bd/464bp	(AB-POL)
P03I	27-10	1200	4909	Thu	Polish intel.	QPSK 100Bd/464bp	(AB-POL)
P03I	27-10	1205	4909	Thu	Polish intel.	QPSK 100Bd/464bp	(AB-POL)
P03I	28-10	1345	7984	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	28-10	1350	7984	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	29-10	1245	5344	Sat	Polish intel.	QPSK 100Bd/464bp	(AB/MPJ)
P03I	29-10	1250	5344	Sat	Polish intel.	QPSK 100Bd/464bp	(AB/MPJ)
P03I	30-10	1245	5344	Sun	Polish intel.	QPSK 100Bd/464bp	(AB/MPJ)
P03I	30-10	1250	5344	Sun	Polish intel.	QPSK 100Bd/464bp	(AB/MPJ)
P03I	31-10	1200	4909	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	31-10	1205	4909	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)

<b>Q26</b>	9-10	1132	4364	Sun	Messages //8073	4+4 QPSK 75/3000 LSB	(JPL)
<b>Q26</b>	9-10	1132	8073	Sun	Messages //4364	4+4 QPSK 75/3000 LSB	(JPL)
<b>RADv</b>	12-10	1602	3360	Wed	Russian Air defense, tracking data	USB	(VSh)
<b>RADv</b>	12-10	1642	4504	Wed	Russian Air defense, tracking data	USB	(VSh)
<b>RNv</b>	12-10	1705	3240	Wed	Test count	USB	(VSh)
<b>S06</b>	3-10	0400	11616	Mon	480 975 62 61696 29843 35159 ... 27153 32423 65929 975 62 00000	USB	(Subilo)
<b>S06</b>	3-10	0420	9322	Mon	480 975 62 61696 29843 35159 ... 27153 32423 65929 975 62 00000	USB	(Subilo)
<b>S06</b>	4-10	0400	11616	Tue	480 263 51 41377 13279 91598 ... 11718 67433 96891 263 51 00000	USB	(Subilo)
<b>S06</b>	4-10	0420	9322	Tue	480 263 51 41377 13279 91598 ... 11718 67433 96891 263 51 00000	USB	(Subilo)
<b>S06</b>	5-10	0400	11616	Wed	480 175 62 49384 86750 60742 ... 62052 22421 17691 175 62 00000	USB	(Subilo)
<b>S06</b>	5-10	0420	9322	Wed	480 175 62 49384 86750 60742 ... 62052 22421 17691 175 62 00000	USB	(Subilo)
<b>S06</b>	6-10	0400	11616	Thu	480 153 62 96420 37184 92714 ... 64243 02887 33464 153 62 00000	USB	(Subilo)
<b>S06</b>	6-10	0420	9322	Thu	480 153 62 96420 37184 92714 ... 64243 02887 33464 153 62 00000	USB	(Subilo)
<b>S06</b>	7-10	0400	11616	Fri	480 480 480 00000 153 62 96420 37184 92714 ... 64243 02887 33464 153 62 00000	USB	(PY/SUBilo)
<b>S06</b>	7-10	0420	9322	Fri	480 153 62 96420 37184 92714 ... 64243 02887 33464 153 62 00000	USB	(PY/SUBilo)
<b>S06</b>	7-10	2000	9268	Fri	319 319 319 00000	USB	(AB/HFD)
<b>S06</b>	7-10	2100	6775	Fri	319 319 319 00000	USB	(AB/HFD)
<b>S06</b>	10-10	0400	11616	Mon	480 792 51 25271 20414 60550 ... 29189 12689 77928 792 51 00000	USB	(Subilo)
<b>S06</b>	10-10	0420	9322	Mon	480 792 51 25271 20414 60550 ... 29189 12689 77928 792 51 00000	USB	(Subilo)
<b>S06</b>	11-10	0400	11616	Tue	480 (R) into inverted morse till 0412z, then normal morse. 93756 27578 23987 75064 63354 32911 = = 365 365 70 70 00000 Feedback for 40secs, then off. They sent the message in morse instead of voice.	USB	(PY/SUBilo)
<b>S06</b>	11-10	0420	9322	Tue	0416-0423: Feedback 0423z: preamble and restart. 365 365 70 7480 480 365 70 32776 23829 43828 ... 75064 73354 32911 365 70 00000	USB	(PY/SUBilo)
<b>S06</b>	12-10	0400	11616	Wed	480 179 54 08964 91022 70366 ... 32380 22125 71152 179 54 00000	USB	(Subilo)
<b>S06</b>	12-10	0420	9322	Wed	480 179 54 08964 91022 70366 ... 32380 22125 71152 179 54 00000	USB	(Subilo)
<b>S06</b>	13-10	0400	11616	Thu	480 625 58 81613 98736 95566 ... 18434 27760 85870 625 58 00000	USB	(Subilo)
<b>S06</b>	13-10	0420	9322	Thu	480 625 58 81613 98736 95566 ... 18434 27760 85870 625 58 00000	USB	(Subilo)
<b>S06</b>	14-10	0400	11616	Fri	480 317 56 45378 41722 14982 ... 33110 51119 40848 318 56 00000	USB	(Subilo)
<b>S06</b>	14-10	0420	9322	Fri	480 317 56 45378 41722 14982 ... 33110 51119 40848 318 56 00000	USB	(Subilo)
<b>S06</b>	17-10	0400	11616	Mon	480 296 55 23463 52651 63816 ... 97543 93265 22923 296 55 00000	USB	(Subilo)
<b>S06</b>	17-10	0420	9322	Mon	480 296 55 23463 52651 63816 ... 97543 93265 22923 296 55 00000	USB	(Subilo)
<b>S06</b>	18-10	0400	11616	Tue	480 357 61 40875 46286 56607 ... 63153 00182 98319 357 61 00000	USB	(Subilo)
<b>S06</b>	18-10	0420	9322	Tue	480 357 61 40875 46286 56607 ... 63153 00182 98319 357 61 00000	USB	(Subilo)
<b>S06</b>	19-10	0400	11616	Wed	480 192 53 95098 32067 88583 ... 53755 97171 16131 192 53 00000	USB	(Subilo)
<b>S06</b>	19-10	0420	9322	Wed	480 192 53 95098 32067 88583 ... 53755 97171 16131 192 53 00000	USB	(Subilo)
<b>S06</b>	20-10	0400	11616	Thu	480 537 61 39761 60307 06097 ... 28717 69322 91639 537 61 00000	USB	(Subilo)
<b>S06</b>	20-10	0420	9322	Thu	480 537 61 39761 60307 06097 ... 28717 69322 91639 537 61 00000	USB	(Subilo)
<b>S06</b>	21-10	0400	11616	Fri	480 196 54 79582 57180 80967 ... 41083 03077 78953 196 54 00000	USB	(Subilo)
<b>S06</b>	21-10	0420	9322	Fri	480 196 54 79582 57180 80967 ... 41083 03077 78953 196 54 00000	USB	(Subilo)
<b>S06</b>	21-10	2000	9268	Fri	319 319 319 00000	USB	(AB)
<b>S06</b>	21-10	2100	6775	Fri	319 319 319 00000	USB	(AB)

S06	24-10	0400	11616	Mon	480 237 51 33139 11005 06712 ... 03494 15153 85036 237 51 00000	USB	(Subilo)
S06	24-10	0420	9322	Mon	480 237 51 33139 11005 06712 ... 03494 15153 85036 237 51 00000	USB	(Subilo)
S06	25-10	0400	11616	Tue	480 659 70 45369 61970 09519 ... 38014 72223 62999 659 70 00000	USB	(Subilo)
S06	25-10	0420	9322	Tue	480 659 70 45369 61970 09519 ... 38014 72223 62999 659 70 00000	USB	(Subilo)
S06	25-10	1325	15674	Tue	583 762 41 38946 90885 88774 ... 76281 23304 30786 762 41 00000	USB	(PY/VSh)
S06	25-10	1425	12203	Tue	583 762 41 38946 90885 88774 ... 76281 23304 30786 762 41 00000	USB	(Subilo/VSh)
S06	26-10	0400	11616	Wed	480 127 53 71773 70005 12388 ... 11525 87133 62878 127 53 00000	USB	(Subilo)
S06	26-10	0420	9322	Wed	480 127 53 71773 70005 12388 ... 11525 87133 62878 127 53 00000	USB	(Subilo)
S06	27-10	0400	11616	Thu	480 935 61 81783 51608 29521 ... 44699 16872 43798 935 61 00000	USB	(Subilo)
S06	27-10	0420	9322	Thu	480 935 61 81783 51608 29521 ... 44699 16872 43798 935 61 00000	USB	(Subilo)
S06	28-10	0400	11616	Fri	480 617 52 34644 75113 57240 ... 74820 34465 15322 617 52 00000	USB	(Subilo)
S06	28-10	0420	9322	Fri	480 617 52 34644 75113 57240 ... 74820 34465 15322 617 52 00000	USB	(Subilo)
S06	31-10	0400	11616	Mon	480 352 64 50884 23216 78258 ... 10899 55182 73542 352 64 00000	USB	(Subilo)
S06	31-10	0420	9322	Mon	480 352 64 50884 23216 78258 ... 10899 55182 73542 352 64 00000	USB	(Subilo)
S06b	26-10	1325	15674	Wed	583 409 2 11111 00058 402 2 00000	USB	(PY/VSh)
S06b	26-10	1425	12203	Wed	583 409 2 11111 00058 402 2 00000	USB	(Subilo/MPJ/VSh)
S07	28-10	1013	9142	Fri	123 123 123	USB	(PY)
S11a	1-10	0830	6433	Sat	372/00	USB	(AB/XAH)
S11a	1-10	1850	10213	Sat	282/00	USB	(AB)
S11a	2-10	0830	6433	Sun	376/00	USB	(AB)
S11a	3-10	0510	11116	Mon	651/00	USB	(AB)
S11a	3-10	0700	8597	Mon	476/00	USB	(AB)
S11a	3-10	0915	6480	Mon	480/00	USB	(AB/XAH)
S11a	4-10	0445	10728	Tue	798/00	USB	(AB)
S11a	4-10	0500	14769	Tue	385/32 Vnimanaye 62284 00824 75006 ... 69117 21404 91245 Vnimanaye (message repeated) Konets	USB	(AB-POL)
S11a	4-10	1400	6797	Tue	424/00	USB	(AB)
S11a	5-10	0510	11116	Wed	655/00	USB	(AB)
S11a	5-10	1850	10213	Wed	281/00	USB	(AB/XAH)
S11a	6-10	0445	10728	Thu	791/00	USB	(AB)
S11a	6-10	0500	14769	Thu	385/32 Vnimanaye 62284 00824 75006 ... 69117 21404 91245 Vnimanaye (message repeated) Konets	USB	(AB-POL)
S11a	7-10	0915	6480	Fri	484/00	USB	(AB)
S11a	7-10	1400	6797	Fri	421/00	USB	(AB)
S11a	8-10	0830	6433	Sat	372/00	USB	(AB)
S11a	8-10	1850	10213	Sat	284/00	USB	(AB)
S11a	9-10	0830	6433	Sun	379/00	USB	(AB)
S11a	10-10	0510	11116	Mon	654/33 Vnimanaye 66498 40876 01296 ... 00095 25111 29210 Vnimanaye (message repeated) Konets	USB	(AB-POL)
S11A	10-10	0510	11116	Mon	655/33=66578 (hfd)	USB	(HFD)
S11a	10-10	0700	8597	Mon	476/00	USB	(AB)
S11a	10-10	0915	6480	Mon	481/00	USB	(AB)

<b>S11a</b>	11-10	0445	10728	Tue	797/31 Vnimanaye 01811 65482 06306 ... 80425 40579 51895 Vnimanaye (message repeated) Konets	USB	(AB-POL)
<b>S11a</b>	11-10	0500	14769	Tue	389/00	USB	(AB-POL)
<b>S11A</b>	11-10	0500	14769	Tue	389/00 (hfd)	USB	(HFD)
<b>S11a</b>	11-10	1400	6797	Tue	424/00	USB	(AB/MPJ)
<b>S11a</b>	12-10	0510	11116	Wed	654/33 Vnimanaye 66498 40876 01296 ... 00095 25111 29210 Vnimanaye (message repeated) Konets	USB	(AB)
<b>S11a</b>	12-10	1850	10213	Wed	288/32 Vnimanaye 51396 48438 08054 ... 22342 20687 45085 Vnimanaye (message repeated) Konets	USB	(AB/XAH/MPJ)
<b>S11a</b>	13-10	0445	10728	Thu	797/31 Vnimanaye 01811 65482 06306 ... 80425 40579 51895 Vnimanaye (message repeated) Konets	USB	(AB-POL)
<b>S11a</b>	13-10	0500	14769	Thu	387/00	USB	(AB-POL)
<b>S11a</b>	14-10	0915	6480	Fri	482/00	USB	(AB/XAH)
<b>S11a</b>	14-10	1400	6797	Fri	422/00	USB	(AB/XAH)
<b>S11a</b>	15-10	0830	6433	Sat	372/00	USB	(AB/XAH)
<b>S11a</b>	15-10	1850	10213	Sat	288/32 Vnimanaye 51396 48438 08054 ... 22342 20687 45085 Vnimanaye (message repeated) Konets	USB	(AB/XAH)
<b>S11a</b>	16-10	0830	6433	Sun	379/00	USB	(AB)
<b>S11a</b>	17-10	0510	11116	Mon	652/00	USB	(AB-POL)
<b>S11a</b>	17-10	0700	8597	Mon	476/34 Vnimanaye 99633 36362 87289 ... 54938 23116 93807 Vnimanaye (message repeated) Konets	USB	(AB)
<b>S11a</b>	17-10	0915	6480	Mon	483/00	USB	(AB/XAH)
<b>S11a</b>	18-10	0445	10728	Tue	791/00	USB	(AB-POL/HFD)
<b>S11a</b>	18-10	0500	14769	Tue	381/00	USB	(AB-POL)
<b>S11a</b>	18-10	1400	6797	Tue	425/00	USB	(AB/MPJ)
<b>S11a</b>	19-10	0510	11116	Wed	656/00	USB	(AB)
<b>S11a</b>	19-10	1850	10213	Wed	285/00	USB	(AB/MPJ)
<b>S11a</b>	20-10	0445	10728	Thu	797/00	USB	(AB-POL)
<b>S11a</b>	20-10	0500	14769	Thu	384/00	USB	(AB-POL)
<b>S11a</b>	20-10	0700	8597	Thu	476/34 Vnimanaye 99633 36362 87289 ... 54938 23116 93807 Vnimanaye (message repeated) Konets	USB	(AB)
<b>S11a</b>	21-10	0915	6480	Fri	483/00	USB	(AB)
<b>S11a</b>	21-10	1400	6797	Fri	422/00	USB	(AB/MPJ)
<b>S11a</b>	22-10	0830	6433	Sat	379/37 Vnimanaye 38752 20484 41993 ... 71222 15012 86348 Vnimanaye (message repeated) Konets	USB	(AB)
<b>S11a</b>	22-10	1850	10213	Sat	284/00	USB	(AB)
<b>S11a</b>	23-10	0830	6433	Sun	379/37 Vnimanaye 38752 20484 41993 ... 71222 15012 86348 Vnimanaye (message repeated) Konets	USB	(AB)
<b>S11a</b>	24-10	0510	11116	Mon	652/00	USB	(AB)
<b>S11a</b>	24-10	0700	8597	Mon	476/00	USB	(AB)
<b>S11a</b>	24-10	0915	6480	Mon	484/33 Vnimanaye 52817 88320 95149 ... 94960 00139 26911 Vnimanaye (message repeated) Konets	USB	(AB)



<b>S11a</b>	25-10	0445	10728	Tue	790/00	USB	(AB-POL)
<b>S11a</b>	25-10	0500	14769	Tue	384/00	USB	(AB-POL)
<b>S11a</b>	25-10	1400	6797	Tue	427/35 Vnmaniye 66394 34111 63649 ... 73113 26013 36083 Vnmaniye (message repeated) Konets Heavily jammed by idiots who think that it is a Russian station	USB	(AB/MPJ)
<b>S11a</b>	26-10	0510	11116	Wed	656/00	USB	(AB)
<b>S11a</b>	26-10	1850	10213	Wed	282/00	USB	(AB/MPJ)
<b>S11a</b>	27-10	0445	10728	Thu	794/00	USB	(AB-POL)
<b>S11a</b>	27-10	0500	14769	Thu	381/00	USB	(AB-POL)
<b>S11a</b>	27-10	0700	8597	Thu	478/00	USB	(AB)
<b>S11a</b>	28-10	0915	6480	Fri	484/33 Vnmaniye 52817 88320 95149 ... 94960 00139 26911 Vnmaniye (message repeated) Konets	USB	(AB)
<b>S11a</b>	28-10	1400	6797	Fri	427/35 Vnmaniye 66394 34111 63649 ... 73113 26013 36083 Vnmaniye (message repeated)	USB	(AB/MPJ)
<b>S11a</b>	29-10	0830	6433	Sat	371/00	USB	(AB)
<b>S11a</b>	29-10	1850	10213	Sat	280/00	USB	(AB)
<b>S11a</b>	30-10	0830	6433	Sun	379/00	USB	(AB)
<b>S11a</b>	31-10	0510	11116	Mon	654/00	USB	(AB)
<b>S11a</b>	31-10	0700	8597	Mon	475/00	USB	(AB)
<b>S11a</b>	31-10	0915	6480	Mon	480/00	USB	(AB)
<b>TUN</b>	12-10	0605	16125	Wed	STAT11: unid Tunisian embassy clg STAT155: MFA Tunis	Mil-STD-188-141A/USB	(AB)
<b>TUN</b>	12-10	0621	16125	Wed	STAT155: MFA Tunis clg STAT11: Unid Tunisian embassy	Mil-STD-188-141A/USB	(AB)
<b>TUN</b>	12-10	0709	15635	Wed	MFA Tunis sending encrypted email	PACTOR-II	(AB)
<b>TUN</b>	12-10	0713	15635	Wed	STAT5: unid Tunidian embassy clg STAT154: MFA Tunis	Mil-STD-188-141A/USB	(AB)
<b>TUN</b>	12-10	0923	12140	Wed	Tunisian diplo. Encrypted email	PACTOR-II	(AB)
<b>TUN</b>	12-10	0928	12140	Wed	STAT152: MFA Tunis clg STAT22: Tunisian embassy Rabat	Mil-STD-188-141A/USB	(AB)
<b>TUN</b>	12-10	0951	12140	Wed	STAT24: Tunisian embassy Rome sounding	Mil-STD-188-141A/USB	(AB)
<b>TUN</b>	12-10	0955	12140	Wed	TUD: MFA Tunis clg STAT21: Tunisian embassy Algiers	Mil-STD-188-141A/USB	(AB)
<b>TUN</b>	12-10	0955	12140	Wed	STAT21: Tunisian embassy Algiers clg TUD: MFA Tunis followed by encrypted email in PACTOR-II #HFARQ#STAT152 #HFARQ#STAT152	Mil-STD-188-141A/USB	(AB)
<b>TUN</b>	13-10	1043	12140	Thu	TUD: MFA Tunis clg STAT21: Tunisian embassy Algiers followed by encrypted email in PACTOR-II	Mil-STD-188-141A/USB	(AB)
<b>TUN</b>	13-10	1043	12140	Thu	STAT152: MFA Tunis clg STAT21: Tunisian embassy Algiers	Mil-STD-188-141A/USB	(AB)
<b>TUN</b>	13-10	1043	12140	Thu	STAT21: Tunisian embassy Algiers clg TUD: MFA Tunis	Mil-STD-188-141A/USB	(AB)
<b>TUN</b>	18-10	0846	12140	Tue	Tunisian diplo, encrypted email	PACTOR-II	(AB)
<b>TUN</b>	18-10	0851	12140	Tue	TUD: MFA Tunis clg STAT21: Tunisian embassy Algiers	Mil-STD-188-141A/USB	(AB)
<b>TUN</b>	18-10	0852	12140	Tue	STAT24: Tunisian embassy Rome, sounding	Mil-STD-188-141A/USB	(AB)
<b>TUN</b>	18-10	0857	12140	Tue	STAT21: Tunisian embassy Algiers clg TUD: MFA Tunis	Mil-STD-188-141A/USB	(AB)
<b>TUN</b>	19-10	0600	16125	Wed	STAT11: unid Tunisian embassy clg STAT155: MFA Tunis	Mil-STD-188-141A/USB	(AB)
<b>TUN</b>	19-10	0729	12140	Wed	STAT24: Tunisian embassy Rome clg STAT155: MFA Tunis	Mil-STD-188-141A/USB	(AB)
<b>TUN</b>	20-10	0853	12140	Thu	STAT21: Tunisian embassy Algiers clg TUD: MFA Tunis	Mil-STD-188-141A/USB	(AB)
<b>TUN</b>	20-10	0900	12140	Thu	MFA Tunis: encrypted email to STA25: Tunisian embassy Brussels. IPM. Note mail.hse HFARQ#STAT152 HFARQ#STAT25 20221020110150:DEFAULT@	PACTOR-II	(AB)
<b>TUN</b>	20-10	0903	12140	Thu	TUD: MFA Tunis clg STAT21: Tunisian embassy Algiers	Mil-STD-188-141A/USB	(AB)



TUN	20-10	1002	12140	Thu	STAT155: MFA Tunis clg STAT24: Tunisian embassy Rome followed by encrypted email in PACTOR-II	Mil-STD-188-141A/USB	(AB)
TUN	20-10	1028	12140	Thu	STAT24: Tunisian embassy Rome clg STAT155: MFA Tunis	Mil-STD-188-141A/USB	(AB)
TUN	27-10	0803	13945	Thu	STAT154: MFA Tunis encrypted email to unid embassy IPM.Note mail.hse DE-FAULT@#HFARQ#STAT154 DEFAULT@#HFARQ#STAT154 HFARQ#STA 20221027090038:DE-FAULT@	PACTOR-II	(AB)
TUN	27-10	0816	13945	Thu	STAT154: MFA Tunis clg TU1: Tunisian embassy Paris	Mil-STD-188-141A/USB	(AB)
TUN	31-10	0838	12140	Mon	TUD: MFA Tunis clg STAT21: Tunisian embassy Algiers	Mil-STD-188-141A/USB	(AB)
TUN	31-10	0839	12140	Mon	STAT21: Tunisian embassy Algiers clg TUD: MFA Tunis	Mil-STD-188-141A/USB	(AB)
UM04	1-10	0700	4735	Sat	VVV VVV PROMRCh = 01 10 = 1000 0780 0820 0960 1380 ... 0800 0680 0700 0830 1220 = AR	CW	(Subilo)
UM04	2-10	0700	4735	Sun	VVV VVV PROMRCh = 02 10 = 1000 0780 0820 0970 1380 ... 0800 0670 0710 0840 1220 = AR	CW	(Subilo)
UM04	3-10	0700	4735	Mon	VVVVV PROMRCh = 0310 = 1000 0790 0830 0P80 1390 ... 0800 0670 0710 0860 1230 = AR	CW	(Subilo)
UM04	4-10	0700	4735	Tue	VVVVV PROMRCh = 04 10 = 1000 0800 0840 0980 1410 ... 0800 0680 0720 0860 1250 = AR	CW	(Subilo)
UM04	6-10	0700	4735	Thu	VVV VVV PROMRCh = 06 10 = 1000 0810 0850 1000 1420 ... 0800 0690 0730 0870 1260 = AR	CW	(Subilo)
UM04	7-10	0700	4735	Fri	VVV VVV PROMRCh = 07 10 = 1000 0810 0850 1010 1450 ... 0800 0690 0730 0870 1770 = AR	CW	(Subilo)
UM04	8-10	0700	4735	Sat	VVV VVV PROMRCh = 0810 = 1000 0820 0870 1010 1450 ... 0800 0690 0740 0880 1280 = AR	CW	(Subilo)
UM04	9-10	0700	4735	Sun	VVVVV PROMRCh = 0910 = 1000 0830 0870 1020 1470 ... 0800 0700 0740 0880 2290 = AR	CW	(Subilo)
UM04	10-10	0700	4735	Mon	VVVVV PROMRCh = 1010 = 1000 0840 0880 1030 1480 ... 0800 0710 0750 0890 1300 = AR	CW	(AB-GRC/Subilo)
UM04	11-10	0702	4735	Tue	VVVVV PROMRCh = 11 10 = 1000 0850 0890 1040 1490 ... 0800 0710 0760 0900 1310 = AR Sent twice	CW	(Subilo)
UM04	12-10	0700	4735	Wed	VVVVV PROMRCh = 12 10 = 1000 0860 0900 1060 1510 ... 0800 0720 0760 0910 1330 = AR	CW	(Subilo)
UM04	13-10	0700	4735	Thu	VVV VVV PROMRCh = 13 10 = 1000 0860 0910 1060 1520 ... 0800 0730 0770 0920 1340 = AR	CW	(Subilo)
UM04	14-10	0700	4735	Fri	VVV VVV PROMRCh = 1410 = 1000 0870 0910 1070 1530 ... 0800 0730 0780 0930 1350 = AR	CW	(Subilo)
UM04	15-10	0700	4735	Sat	VVVVV PROMRCh = 15 10 = 1000 0880 0920 1080 1550 ... 0800 0740 0780 0930 1360 = AR	CW	(AB-GRC/Subilo)
UM04	16-10	0700	4735	Sun	VVV VVV PROMRCh = 1610 = 1000 0890 0940 1090 1560 ... 0800 0740 0790 0940 1370 = AR	CW	(Subilo)
UM04	17-10	0700	4735	Mon	VVVVV PROMRCh = 17 10 = 1000 0890 1050 100 1580 ... 0800 0750 0790 0950 1380 = AR	CW	(AB-GRC/Subilo)
UM04	17-10	0700	4735	Mon	VVVVV PROMRCh = 17 10 = 1000 0890 1050 1100 1580 ... 0800 0750 0790 0950 1380 = AR	CW	(Subilo)
UM04	18-10	0700	4735	Tue	VVV VVV PROMCh = 18 10 = 1000 0900 0940 1100 1580 ... 0800 0750 0800 0950 1390 = AR	CW	(Subilo)
UM04	19-10	0700	4735	Wed	VVV VVV PROMRCh = 1910 = 1000 0900 0950 1110 1590 ... 0800 0750 0800 0960 1390 = AR	CW	(Subilo)
UM04	20-10	0700	4735	Thu	VVVVV PROMRCh = 20 10 = 1000 0900 0950 1110 1600 ... 0800 0750 0800 0960 1400 = AR	CW	(Subilo)
UM04	21-10	0700	4735	Fri	VVVVV = PROMRCh = 21 10 = 1000 0910 0960 1120 1610 ... 0800 0780 0800 0960 1410 = AR	CW	(Subilo)
UM04	22-10	0700	4735	Sat	VVVVV PROMRCh = 21 10 = 1000 0910 0960 1120 1610 ... 0800 0750 0800 0960 1410 = AR	CW	(AB-HNG/Subilo)
UM04	23-10	0700	4735	Sun	VVVVVV PROMRCh = 2310 = 1000 0910 0950 1120 1610 ... 0800 0750 0800 0960 1400 = AR	CW	(AB-HNG/Subilo)
UM04	24-10	0700	4735	Mon	VVVVV = PROMRCh = 2410 = 1000 0910 0950 1120 1610 ... 0800 0750 0800 0960 1400 = AR	CW	(Subilo)
UM04	25-10	0700	4735	Tue	VVVVV PROMRCh = 25 10 = 1000 0900 0950 1120 1610 ... 0800 0750 0790 0950 1400 = AR	CW	(Subilo)
UM04	26-10	0700	4735	Wed	VVVVV PROMRCh = 2610 = 1000 0900 0950 1120 1600 ... 0800 0750 0790 0950 1400 = AR	CW	(Subilo)
UM04	27-10	0700	4735	Thu	VVVVV PROMRCh = 27 10 = 1000 0890 0940 1100 1590 ... 0800 0740 0790 0950 1390 = AR AK	CW	(AB-HNG/Subilo)
UM04	28-10	0700	4735	Fri	VVVVV PROMRCh = 2810 = 1000 0890 0940 1100 1580 ... 0800 0730 0780 0940 1380 = AR	CW	(Subilo)
UM04	29-10	0700	4735	Sat	VVV VVV PROMRCh = 29 10 = 1000 0880 0930 1090 1570 ... 0800 0730 0780 0940 1380 = AR	CW	(AB-AUT/Subilo)
UM04	30-10	0800	4735	Sun	VVVVV PROMRCh = 30 10 = 1000 0880 0920 1090 1570 ... 0800 0730 0770 0930 1370 = AR	CW	(AB-AUT/Subilo)
UM04	31-10	0800	4735	Mon	VVV VVV PROMRCh = 31 10 = 1000 0870 0920 1080 1560 ... 0800 0720 0770 0930 1370 = AR	CW	(AB-AUT/Subilo)
V07	2-10	0120	14725	Sun	974 974 974 1 208 84 208 84 44031 57428 32884 ... 15859 31772 7770? 000 000	USB	(Dan)

V07	9-10	0120	14725	Sun	974 974 974 1 362 66 362 66 73174 74923 86911 ... 22813 71667 09250 000 000	USB	(Dan/HFD)
V07	9-10	0120	14725	Sun	974 974 974 1 362 66 362 66 73174 74923 86911 ... 22813 71667 09250 000 000	USB	(HFD)
V07	9-10	0140	13425	Sun	974 974 974 1 362 66 362 66 73174 74923 86911 ... 22813 71667 09250 000 000	USB	(HFD)
V07	13-10	1125	9283	Thu	687 687 687 1 8211 18 8211 18 16451 94160 63142 ... 41674 25815 32888 000 000	AM	(PY/VSh)
V07	16-10	0100	15925	Sun	974 974 974 1 5923 46 5923 46 14628 49417 11586 ... 59498 08495 000 000	USB	(Dan)
V07	23-10	0100	15925	Sun	974 974 974 1 546 58 546 58 24842 72651 95147 ... 33095 40143 03727 000 000	USB	(Dan)
V07	28-10	1015	9142	Fri	V07 123 123 123 1 123 123 123 1 123 123 alternate 2021 voice	USB	(PY)
V07	30-10	0100	15925	Sun	974 974 974 1 464 122 464 122 40654 70830 93893 ... 76506 30899 18871 000 000	USB	(Dan)
V07	30-10	0120	17425	Sun	974 974 974 1 464 122 464 122 40654 70830 93893 ... 76506 30899 18871 000 000	USB	(CMP)
V13	1-10	1300	7688	Sat	New Star Broadcasting. Carrier only	USB	(AB-TWN)
V13	1-10	1300	11430	Sat	New Star Broadcasting. Carrier only	AM	(AB-TWN)
V13	2-10	0100	18040	Sun	New Star Broadcasting, Station No. 1. Messages 7127, 7130, 7153, 7300, 7436, 7658	AM	(VSh)
V13	6-10	1330	7688	Thu	New Star Broadcasting	AM	(AB-TWN)
V13	6-10	1330	11430	Thu	New Star Broadcasting. Carrier and transmitter noise only	AM	(AB-TWN)
V13	7-10	1230	9276	Fri	New Star Broadcasting	AM	(AB-TWN)
V13	7-10	1230	13974	Fri	New Star Broadcasting	AM	(AB-TWN)
V13	7-10	1300	7688	Fri	New Star Broadcasting	AM	(AB-TWN)
V13	7-10	1300	11430	Fri	New Star Broadcasting	AM	(AB-TWN)
V13	8-10	1330	7688	Sat	New Star Broadcasting. Carrier only	USB	(AB-TWN)
V13	8-10	1330	11430	Sat	New Star Broadcasting. Carrier only	AM	(AB-TWN)
V13	11-10	1230	9276	Tue	New Star Broadcasting	AM	(AB-TWN)
V13	11-10	1233	13974	Tue	New Star Broadcasting	AM	(AB-TWN)
V13	13-10	1230	9276	Thu	New Star Broadcasting	AM	(AB-TWN)
V13	13-10	1230	13974	Thu	New Star Broadcasting	AM	(AB-TWN)
V13	13-10	1330	7688	Thu	New Star Broadcasting	AM	(AB-TWN)
V13	13-10	1330	11430	Thu	New Star Broadcasting	AM	(AB-TWN)
V13	20-10	1200	9276	Thu	New Star Broadcasting	USB	(AB-TWN)
V13	20-10	1330	7688	Thu	New Star Broadcasting	AM	(AB-TWN)
V13	20-10	1330	11430	Thu	New Star Broadcasting	AM	(AB-TWN)
V13	21-10	1345	11430	Fri	New Star Broadcasting i.p.	USB	(Phil)
V13	27-10	0105	18040	Thu	New Star Broadcasting	USB	(EW)
V13	31-10	1300	11430	Mon	New Star Broadcasting	USB	(AB)
V13	31-10	1301	7688	Mon	New Star Broadcasting	USB	(AB)
V26	9-10	1130	4364	Sun	Callup in Chinese voice //8073	USB	(JPL)
V26	9-10	1130	8073	Sun	Callup in Chinese voice //4364	USB	(JPL)
V28	2-10	1200	3043	Sun	Parrot	AM	(HK)
V28	2-10	1200	3530.5	Sun	Parrot	AM	(HK)
V28	2-10	1200	5226	Sun	Parrot	AM	(HK)
V28	2-10	2200	4510	Sun	Parrot	AM	(HK)
V28	2-10	2200	5050	Sun	Parrot	AM	(HK)
V28	2-10	2205	5050	Sun	Parrot. Male operator	AM	(HK)
V28	3-10	2200	4511.6	Mon	Parrot. Female operator	AM	(HK)

V28	4-10	1207	3031.5	Tue	Parrot	AM	(HK)
V28	4-10	1207	3531.5	Tue	Parrot	AM	(HK)
V28	4-10	1207	5236.5	Tue	Parrot	AM	(HK)
VC01	6-10	1420	5360	Thu	Chinese Air Defense, a.k.a. Chinese Robot	LSB	(AB-HK)
VC01	12-10	1914	5241	Wed	Chinese Air Defense a.k.a. Chinese Robot	USB	(AB)
VC01	19-10	1657	7207	Wed	Chinese Air Defense a.k.a. Chinese Robot	USB	(AB)
VC01	21-10	1409	7207	Fri	Chinese Air Defense a.k.a. Chinese Robot	USB	(AB)
VC01	31-10	2002	5241	Mon	Chinese Air Defense a.k.a. Chinese Robot	USB	(AB)
X06	4-10	0831	13401	Tue	MFA Moscow clg 154263: Russian embassy Rome	MFSK-6	(AB)
X06	7-10	1025	17450	Fri	111666 test (R14m)	MFSK-6	(AB)
X06	10-10	0822	17475	Mon	MFA Moscow clg 156234: Russian embassy Kampala	MFSK-6	(Moon)
X06	11-10	1248	16340	Tue	111666 for a couple seconds	MFSK-6	(AB)
X06	13-10	0812	16153	Thu	MFA Moscow clg 153624: Russian embassy Damascus	MFSK-6	(Moon)
X06	13-10	0958	13506	Thu	MFA Moscow clg 164532: Russian embassy Dublin	MFSK-6	(AB/Moon)
X06	17-10	0648	11638	Mon	MFA Moscow clg 165324: Russian embassy Vienna	MFSK-6	(AB/Moon)
X06	17-10	0923	18750	Mon	MFA Moscow clg 641523: Russian embassy Lusaka	MFSK-6	(Moon)
X06	17-10	0926	18750	Mon	MFA Moscow clg 641523: Russian embassy Lusaka	MFSK-6	(AB/Moon)
X06	24-10	0925	19234	Mon	MFA Moscow clg 463125: Russian embassy Rabat	MFSK-6	(EW)
X06	24-10	1245	15656	Mon	MFA Moscow clg 364152: Russian embassy New Delhi	MFSK-6	(Moon)
X06	25-10	1020	20813	Tue	MFA Moscow clg 216354: Russian Consulate General Chennai	MFSK-6	(Moon)
X06	26-10	0739	10814	Wed	MFA Moscow clg 412356: Russian embassy Budapest	MFSK-6	(AB)
X06	26-10	0928	16116	Wed	MFA Moscow clg 134265: Russian embassy Tunis	MFSK-6	(AB)
X06	27-10	0825	16153	Thu	MFA Moscow clg 153624: Russian embassy Damascus	MFSK-6	(AB)
X06	28-10	1211	17463	Fri	MFA Moscow clg 256134: Russian embassy Abidjan	MFSK-6	(AB)
X06b	18-10	0912	13330	Tue	111666 (test, off at 0942z)	MFSK-6	(AB)
X06c	28-10	1053	14250	Fri	Sequence: 123456 ended at 1113 UTC	MFSK-6	(AB)
X06d	11-10	1215	16340	Tue	111111	CW	(AB)
X06d	11-10	1235	16340	Tue	111111	CW	(AB)
XPA1	5-10	1210	14564	Wed	554 554 554 1 04962 00088 52679 ... 73557 20237 41525	MFSK-20/10Bd	(AB)
XPA1	5-10	1210	14564	Wed	msg via KiwiSDR RUS (hfd)	MFSK-20/10Bd	(HFD)
XPA1	5-10	1230	13564	Wed	554 554 554 1 04962 00088 52679 ... 73557 20237 41525	MFSK-20/10Bd	(AB)
XPA1	5-10	1230	13564	Wed	msg via KiwiSDR RUS (hfd)	MFSK-20/10Bd	(HFD)
XPA1	5-10	1250	11464	Wed	554 554 554 1 04962 00088 52679 ... 73557 20237 41525	MFSK-20/10Bd	(AB)
XPA1	5-10	1250	11464	Wed	msg via KiwiSDR RUS (hfd)	MFSK-20/10Bd	(HFD)
XPA1	7-10	1210	14564	Fri	554 554 554 1 04962 00088 52679 ... 73557 20237 41525	MFSK-20/10Bd	(AB)
XPA1	7-10	1230	13564	Fri	554 554 554 1 04962 00088 52679 ... 73557 20237 41525	MFSK-20/10Bd	(AB)
XPA1	7-10	1250	11464	Fri	554 554 554 1 04962 00088 52679 ... 73557 20237 41525	MFSK-20/10Bd	(AB)
XPA1	12-10	1210	14564	Wed	554 554 554 1 05166 00102 09504 ... 31675 89874 35543	MFSK-20/10Bd	(AB)
XPA1	12-10	1230	13564	Wed	554 554 554 1 05166 00102 09504 ... 31675 89874 35543	MFSK-20/10Bd	(AB)
XPA1	12-10	1250	11464	Wed	554 554 554 1 05166 00102 09504 ... 31675 89874 35543	MFSK-20/10Bd	(AB)
XPA1	14-10	1210	14564	Fri	554 554 554 1 05166 00102 09504 ... 31675 89874 35543	MFSK-20/10Bd	(AB/XAH)
XPA1	14-10	1230	13564	Fri	554 554 554 1 05166 00102 09504 ... 31675 89874 35543	MFSK-20/10Bd	(AB/XAH)

XPA1	14-10	1250	11464	Fri	554 554 554 1 05166 00102 09504 ... 31675 89874 35543	MFSK-20/10Bd	(AB/XAH)
XPA1	19-10	1210	14564	Wed	554 554 554 1 05166 00102 09504 ... 31675 89874 35543	MFSK-20/10Bd	(AB)
XPA1	19-10	1230	13564	Wed	554 554 554 1 05166 00102 09504 ... 31675 89874 35543	MFSK-20/10Bd	(AB)
XPA1	19-10	1250	11464	Wed	554 554 554 1 05166 00102 09504 ... 31675 89874 35543	MFSK-20/10Bd	(AB)
XPA1	21-10	1210	14564	Fri	554 554 554 1 05166 00102 09504 ... 31675 89874 35543	MFSK-20/10Bd	(AB/MPJ)
XPA1	21-10	1230	13564	Fri	554 554 554 1 05166 00102 09504 ... 31675 89874 35543	MFSK-20/10Bd	(AB/MPJ)
XPA1	21-10	1250	11464	Fri	554 554 554 1 05166 00102 09504 ... 31675 89874 35543	MFSK-20/10Bd	(AB/MPJ)
XPA1	26-10	1210	14564	Wed	554 554 554 1 00951 00128 54639 ... 67558 74325 25271	MFSK-20/10Bd	(AB)
XPA1	26-10	1230	13564	Wed	554 554 554 1 00951 00128 54639 ... 67558 74325 25271	MFSK-20/10Bd	(AB)
XPA1	26-10	1250	11464	Wed	554 554 554 1 00951 00128 54639 ... 67558 74325 25271	MFSK-20/10Bd	(AB)
XPA1	28-10	0800	9142	Fri	Message	MFSK-20/10Bd	(PY)
XPA1	28-10	0805	10256	Fri	1 1 1 1 1 1 1 02471 00046 92117 ... 67966 76050 24611	MFSK-20/10Bd	(AB/PY)
XPA1	28-10	0810	11431	Fri	Message	MFSK-20/10Bd	(PY)
XPA1	28-10	0820	9142	Fri	Message	MFSK-20/10Bd	(PY)
XPA1	28-10	0825	10256	Fri	Message1 1 1 1 1 1 1 02630 00001 00000 10140	MFSK-20/10Bd	(PY)
XPA1	28-10	0830	11431	Fri	Message	MFSK-20/10Bd	(PY)
XPA1	28-10	1210	14564	Fri	554 554 554 1 00951 00128 54639 ... 67558 74325 25271	MFSK-20/10Bd	(AB/MPJ)
XPA1	28-10	1230	13564	Fri	554 554 554 1 00951 00128 54639 ... 67558 74325 25271	MFSK-20/10Bd	(AB/MPJ)
XPA1	28-10	1250	11464	Fri	554 554 554 1 00951 00128 54639 ... 67558 74325 25271	MFSK-20/10Bd	(AB/MPJ)
XPA2	1-10	0910	17438	Sat	02335 00068 26361 ... 62830 88680 00357	MFSK-16/20Bd	(AB)
XPA2	1-10	0930	16338	Sat	02335 00068 26361 ... 62830 88680 00357	MFSK-16/20Bd	(AB)
XPA2	1-10	0950	15938	Sat	02335 00068 26361 ... 62830 88680 00357	MFSK-16/20Bd	(AB/XAH)
XPA2	1-10	1500	13906	Sat	03477 00257 00588 ... 10561 67167 41444	MFSK-16/20Bd	(AB)
XPA2	1-10	1520	12106	Sat	03477 00257 00588 ... 10561 67167 41444	MFSK-16/20Bd	(AB)
XPA2	1-10	1540	10906	Sat	03477 00257 00588 ... 10561 67167 41444	MFSK-16/20Bd	(AB)
XPA2	2-10	0800	15958	Sun	07895 00001 00000 37670	MFSK-16/20Bd	(AB)
XPA2	2-10	0820	17458	Sun	07895 00001 00000 37670	MFSK-16/20Bd	(AB)
XPA2	2-10	0840	18758	Sun	07895 00001 00000 37670	MFSK-16/20Bd	(AB)
XPA2	2-10	1200	14469	Sun	05195 00214 24315 ... 29058 68358 53716	MFSK-16/20Bd	(AB/MPJ)
XPA2	2-10	1220	16169	Sun	05195 00214 24315 ... 29058 68358 53716	MFSK-16/20Bd	(AB/MPJ)
XPA2	2-10	1240	17469	Sun	05195 00214 24315 ... 29058 68358 53716	MFSK-16/20Bd	(AB/MPJ)
XPA2	3-10	0700	13372	Mon	09327 00140 97908 ... 50481 56143 30404	MFSK-16/20Bd	(AB/HFD)
XPA2	3-10	0720	14672	Mon	09327 00140 97908 ... 50481 56143 30404	MFSK-16/20Bd	(AB/HFD)
XPA2	3-10	0740	15872	Mon	09327 00140 97908 ... 50481 56143 30404	MFSK-16/20Bd	(AB/HFD)
XPA2	3-10	0910	17471	Mon	00995 00076 81076 ... 26711 41701 07360	MFSK-16/20Bd	(AB)
XPA2	3-10	0930	16149	Mon	00995 00076 81076 ... 26711 41701 07360	MFSK-16/20Bd	(AB)
XPA2	3-10	0950	14406	Mon	00995 00076 81076 ... 26711 41701 07360	MFSK-16/20Bd	(AB)
XPA2	3-10	1500	13906	Mon	04700 00001 00000 34654	MFSK-16/20Bd	(AB)
XPA2	3-10	1520	12106	Mon	04700 00001 00000 34654	MFSK-16/20Bd	(AB)
XPA2	3-10	1540	10906	Mon	04700 00001 00000 34654	MFSK-16/20Bd	(AB)
XPA2	4-10	0500	10238	Tue	00943 00133 09907 ... 77126 02008 07464	MFSK-16/20Bd	(AB)
XPA2	4-10	0520	11138	Tue	00943 00133 09907 ... 77126 02008 07464	MFSK-16/20Bd	(AB)

XPA2	4-10	0540	12138	Tue	00943 00133 09907 ... 77126 02008 07464	MFSK-16/20Bd	(AB)
XPA2	4-10	1100	14537	Tue	05392 00077 28008 ... 75080 74658 03540	MFSK-16/20Bd	(AB)
XPA2	4-10	1120	13437	Tue	05392 00077 28008 ... 75080 74658 03540	MFSK-16/20Bd	(AB)
XPA2	4-10	1140	10737	Tue	05392 00077 28008 ... 75080 74658 03540	MFSK-16/20Bd	(AB)
XPA2	4-10	1200	14469	Tue	08272 00192 40669 ... 41707 06175 42553	MFSK-16/20Bd	(AB)
XPA2	4-10	1220	16169	Tue	08272 00192 40669 ... 41707 06175 42553	MFSK-16/20Bd	(AB)
XPA2	4-10	1240	17469	Tue	08272 00192 40669 ... 41707 06175 42553	MFSK-16/20Bd	(AB)
XPA2	4-10	1600	13542	Tue	08743 00001 00000 36264	MFSK-16/20Bd	(AB/MPJ)
XPA2	4-10	1620	12142	Tue	08743 00001 00000 36264	MFSK-16/20Bd	(AB/MPJ)
XPA2	4-10	1640	11442	Tue	08743 00001 00000 36264	MFSK-16/20Bd	(AB/MPJ)
XPA2	5-10	0700	13372	Wed	09327 00140 97908 ... 50481 56143 30404	MFSK-16/20Bd	(AB)
XPA2	5-10	0720	14672	Wed	09327 00140 97908 ... 50481 56143 30404	MFSK-16/20Bd	(AB)
XPA2	5-10	0740	15872	Wed	09327 00140 97908 ... 50481 56143 30404	MFSK-16/20Bd	(AB)
XPA2	5-10	0910	17471	Wed	00995 00076 81076 ... 26711 41701 07360	MFSK-16/20Bd	(AB)
XPA2	5-10	0930	16149	Wed	00995 00076 81076 ... 26711 41701 07360	MFSK-16/20Bd	(AB)
XPA2	5-10	0950	14406	Wed	00995 00076 81076 ... 26711 41701 07360	MFSK-16/20Bd	(AB)
XPA2	5-10	1100	14672	Wed	01447 00095 97043 ... 67432 33080 61346	MFSK-16/20Bd	(AB)
XPA2	5-10	1120	13472	Wed	01447 00095 97043 ... 67432 33080 61346	MFSK-16/20Bd	(AB)
XPA2	5-10	1140	12172	Wed	01447 00095 97043 ... 67432 33080 61346	MFSK-16/20Bd	(AB)
XPA2	5-10	1200	13452	Wed	00801 00186 73242 ... 39167 50040 57726	MFSK-16/20Bd	(AB/HFD)
XPA2	5-10	1220	14452	Wed	00801 00186 73242 ... 39167 50040 57726	MFSK-16/20Bd	(AB/HFD)
XPA2	5-10	1240	15852	Wed	00801 00186 73242 ... 39167 50040 57726	MFSK-16/20Bd	(AB/HFD)
XPA2	6-10	0500	10238	Thu	00943 00133 09907 ... 77126 02008 07464	MFSK-16/20Bd	(AB/HFD)
XPA2	6-10	0520	11138	Thu	00943 00133 09907 ... 77126 02008 07464	MFSK-16/20Bd	(AB/HFD)
XPA2	6-10	0540	12138	Thu	00943 00133 09907 ... 77126 02008 07464	MFSK-16/20Bd	(AB/HFD)
XPA2	6-10	0910	17438	Thu	07383 00001 00000 34267	MFSK-16/20Bd	(AB/MPJ)
XPA2	6-10	0930	16338	Thu	07383 00001 00000 34267	MFSK-16/20Bd	(AB/MPJ)
XPA2	6-10	0950	15938	Thu	07383 00001 00000 34267	MFSK-16/20Bd	(AB/MPJ)
XPA2	6-10	1100	14672	Thu	01447 00095 97043 ... 67432 33080 61346	MFSK-16/20Bd	(AB)
XPA2	6-10	1120	13472	Thu	01447 00095 97043 ... 67432 33080 61346	MFSK-16/20Bd	(AB)
XPA2	6-10	1140	12172	Thu	01447 00095 97043 ... 67432 33080 61346	MFSK-16/20Bd	(AB)
XPA2	6-10	1600	13542	Thu	04207 00001 00000 35654	MFSK-16/20Bd	(AB)
XPA2	6-10	1620	12142	Thu	04207 00001 00000 35654	MFSK-16/20Bd	(AB)
XPA2	6-10	1640	11442	Thu	04207 00001 00000 35654	MFSK-16/20Bd	(AB)
XPA2	7-10	0800	15958	Fri	00940 00142 18773 ... 55360 48032 13350	MFSK-16/20Bd	(AB)
XPA2	7-10	0820	17458	Fri	00940 00142 18773 ... 55360 48032 13350	MFSK-16/20Bd	(AB)
XPA2	7-10	0840	18758	Fri	00940 00142 18773 ... 55360 48032 13350	MFSK-16/20Bd	(AB)
XPA2	7-10	1100	14537	Fri	05392 00077 28008 ... 75080 74658 03540	MFSK-16/20Bd	(AB)
XPA2	7-10	1120	13437	Fri	05392 00077 28008 ... 75080 74658 03540	MFSK-16/20Bd	(AB)
XPA2	7-10	1140	10737	Fri	05392 00077 28008 ... 75080 74658 03540	MFSK-16/20Bd	(AB)
XPA2	7-10	1200	13452	Fri	00801 00186 73242 ... 39167 50040 57726	MFSK-16/20Bd	(AB)
XPA2	7-10	1220	14452	Fri	00801 00186 73242 ... 39167 50040 57726	MFSK-16/20Bd	(AB)



XPA2	7-10	1240	15852	Fri	00801 00186 73242 ... 39167 50040 57726	MFSK-16/20Bd	(AB)
XPA2	8-10	0910	17438	Sat	08012 0001 00000 32261	MFSK-16/20Bd	(AB)
XPA2	8-10	0930	16338	Sat	08012 0001 00000 32261	MFSK-16/20Bd	(AB)
XPA2	8-10	0950	15938	Sat	08012 0001 00000 32261	MFSK-16/20Bd	(AB)
XPA2	8-10	1500	13906	Sat	02429 00001 00000 37654	MFSK-16/20Bd	(AB/HFD)
XPA2	8-10	1520	12106	Sat	02429 00001 00000 37654	MFSK-16/20Bd	(AB/HFD)
XPA2	8-10	1540	10906	Sat	02429 00001 00000 37654	MFSK-16/20Bd	(AB/HFD)
XPA2	9-10	0800	15958	Sun	00940 00142 18773 ... 55360 48032 13350	MFSK-16/20Bd	(AB/HFD)
XPA2	9-10	0820	17458	Sun	00940 00142 18773 ... 55360 48032 13350	MFSK-16/20Bd	(AB/HFD)
XPA2	9-10	0840	18758	Sun	00940 00142 18773 ... 55360 48032 13350	MFSK-16/20Bd	(AB/HFD)
XPA2	9-10	1200	14469	Sun	08272 00192 40669 ... 41707 06175 42553	MFSK-16/20Bd	(AB)
XPA2	9-10	1220	16169	Sun	08272 00192 40669 ... 41707 06175 42553	MFSK-16/20Bd	(AB)
XPA2	9-10	1240	17469	Sun	08272 00192 40669 ... 41707 06175 42553	MFSK-16/20Bd	(AB)
XPA2	10-10	0700	13372	Mon	04266 00188 33780 ... 99721 03430 53723	MFSK-16/20Bd	(AB)
XPA2	10-10	0720	14672	Mon	04266 00188 33780 ... 99721 03430 53723	MFSK-16/20Bd	(AB)
XPA2	10-10	0740	15872	Mon	04266 00188 33780 ... 99721 03430 53723	MFSK-16/20Bd	(AB)
XPA2	10-10	0910	17471	Mon	06580 00001 00000 33666	MFSK-16/20Bd	(AB/MPJ/HFD)
XPA2	10-10	0930	16149	Mon	06580 00001 00000 33666	MFSK-16/20Bd	(AB/MPJ/HFD)
XPA2	10-10	0950	14406	Mon	06580 00001 00000 33666	MFSK-16/20Bd	(AB/MPJ/HFD)
XPA2	10-10	1500	13906	Mon	04479 00212 39448 ... 39720 70299 61564	MFSK-16/20Bd	(AB/MPJ)
XPA2	10-10	1520	12106	Mon	04479 00212 39448 ... 39720 70299 61564	MFSK-16/20Bd	(AB/MPJ)
XPA2	10-10	1540	10906	Mon	04479 00212 39448 ... 39720 70299 61564	MFSK-16/20Bd	(AB/MPJ)
XPA2	11-10	0500	10238	Tue	09097 00001 00000 34672	MFSK-16/20Bd	(AB)
XPA2	11-10	0520	11138	Tue	09097 00001 00000 34672	MFSK-16/20Bd	(AB)
XPA2	11-10	0540	12138	Tue	09097 00001 00000 34672	MFSK-16/20Bd	(AB)
XPA2	11-10	1100	14537	Tue	04920 00001 00000 35656	MFSK-16/20Bd	(AB/MPJ/HFD)
XPA2	11-10	1120	13437	Tue	04920 00001 00000 35656	MFSK-16/20Bd	(AB/MPJ/HFD)
XPA2	11-10	1140	10737	Tue	04920 00001 00000 35656	MFSK-16/20Bd	(AB/MPJ/HFD)
XPA2	11-10	1200	14469	Tue	00904 00232 70219 ... 70386 77740 03530	MFSK-16/20Bd	(AB)
XPA2	11-10	1220	16169	Tue	00904 00232 70219 ... 70386 77740 03530	MFSK-16/20Bd	(AB)
XPA2	11-10	1240	17469	Tue	00904 00232 70219 ... 70386 77740 03530	MFSK-16/20Bd	(AB)
XPA2	11-10	1600	13542	Tue	03947 00190 60225 ... 82135 02610 54366	MFSK-16/20Bd	(AB)
XPA2	11-10	1620	12142	Tue	03947 00190 60225 ... 82135 02610 54366	MFSK-16/20Bd	(AB)
XPA2	11-10	1640	11442	Tue	03947 00190 60225 ... 82135 02610 54366	MFSK-16/20Bd	(AB)
XPA2	12-10	0700	13372	Wed	04266 00188 33780 ... 99721 03430 53723	MFSK-16/20Bd	(AB)
XPA2	12-10	0720	14672	Wed	04266 00188 33780 ... 99721 03430 53723	MFSK-16/20Bd	(AB)
XPA2	12-10	0740	15872	Wed	04266 00188 33780 ... 99721 03430 53723	MFSK-16/20Bd	(AB)
XPA2	12-10	0910	17471	Wed	08369 00001 00000 37266	MFSK-16/20Bd	(AB)
XPA2	12-10	0910	9142	Wed	00279 00020 19085 ... 38910 21861 32075	MFSK-16/20Bd	(PY/VSh)
XPA2	12-10	0915	10256	Wed	00279 00020 19085 ... 38910 21861 32075	MFSK-16/20Bd	(AB/PY/VSh)
XPA2	12-10	0920	11574	Wed	00279 00020 19085 ... 38910 21861 32075	MFSK-16/20Bd	(PY/VSh)
XPA2	12-10	0930	16149	Wed	08369 00001 00000 37266	MFSK-16/20Bd	(AB)

XPA2	12-10	0950	14406	Wed	08369 00001 00000 37266	MFSK-16/20Bd	(AB)
XPA2	12-10	1100	14672	Wed	02408 00122 16206 ... 92155 14559 36736	MFSK-16/20Bd	(AB/HFD)
XPA2	12-10	1120	13472	Wed	02408 00122 16206 ... 92155 14559 36736	MFSK-16/20Bd	(AB/HFD)
XPA2	12-10	1140	12172	Wed	02408 00122 16206 ... 92155 14559 36736	MFSK-16/20Bd	(AB/HFD)
XPA2	12-10	1200	13452	Wed	00957 00228 65438 ... 68114 61425 11623	MFSK-16/20Bd	(AB)
XPA2	12-10	1220	14452	Wed	00957 00228 65438 ... 68114 61425 11623	MFSK-16/20Bd	(AB)
XPA2	12-10	1240	15852	Wed	00957 00228 65438 ... 68114 61425 11623	MFSK-16/20Bd	(AB)
XPA2	13-10	0500	10238	Thu	05766 00001 00000 37663	MFSK-16/20Bd	(AB)
XPA2	13-10	0520	11138	Thu	05766 00001 00000 37663	MFSK-16/20Bd	(AB)
XPA2	13-10	0540	12138	Thu	05766 00001 00000 37663	MFSK-16/20Bd	(AB)
XPA2	13-10	0910	17438	Thu	00870 00188 48342 ... 96289 15072 06600	MFSK-16/20Bd	(AB/HFD)
XPA2	13-10	0930	16338	Thu	00870 00188 48342 ... 96289 15072 06600	MFSK-16/20Bd	(AB/HFD)
XPA2	13-10	0950	15938	Thu	00870 00188 48342 ... 96289 15072 06600	MFSK-16/20Bd	(AB/HFD)
XPA2	13-10	1100	14672	Thu	02408 00122 16206 ... 92155 14559 36736	MFSK-16/20Bd	(AB)
XPA2	13-10	1120	13472	Thu	02408 00122 16206 ... 92155 14559 36736	MFSK-16/20Bd	(AB)
XPA2	13-10	1140	12172	Thu	02408 00122 16206 ... 92155 14559 36736	MFSK-16/20Bd	(AB)
XPA2	13-10	1600	13542	Thu	03947 00190 60225 ... 82135 02610 54366	MFSK-16/20Bd	(AB)
XPA2	13-10	1620	12142	Thu	03947 00190 60225 ... 82135 02610 54366	MFSK-16/20Bd	(AB)
XPA2	13-10	1640	11442	Thu	03947 00190 60225 ... 82135 02610 54366	MFSK-16/20Bd	(AB)
XPA2	14-10	0800	15958	Fri	09719 00001 00000 41262	MFSK-16/20Bd	(AB/XAH)
XPA2	14-10	0820	17458	Fri	09719 00001 00000 41262	MFSK-16/20Bd	(AB/XAH)
XPA2	14-10	0840	18758	Fri	09719 00001 00000 41262	MFSK-16/20Bd	(AB/XAH)
XPA2	14-10	1100	14537	Fri	05665 00001 00000 36663	MFSK-16/20Bd	(AB/XAH)
XPA2	14-10	1120	13437	Fri	05665 00001 00000 36663	MFSK-16/20Bd	(AB/XAH)
XPA2	14-10	1140	10737	Fri	05665 00001 00000 36663	MFSK-16/20Bd	(AB/XAH)
XPA2	14-10	1200	13452	Fri	00957 00228 65438 ... 68114 61425 11623	MFSK-16/20Bd	(AB/XAH)
XPA2	14-10	1220	14452	Fri	00957 00228 65438 ... 68114 61425 11623	MFSK-16/20Bd	(AB/XAH)
XPA2	14-10	1240	15852	Fri	00957 00228 65438 ... 68114 61425 11623	MFSK-16/20Bd	(AB/XAH)
XPA2	15-10	0910	17438	Sat	00870 00188 48342 ... 96289 15072 06600	MFSK-16/20Bd	(AB/XAH)
XPA2	15-10	0930	16338	Sat	00870 00188 48342 ... 96289 15072 06600	MFSK-16/20Bd	(AB/XAH)
XPA2	15-10	0950	15938	Sat	00870 00188 48342 ... 96289 15072 06600	MFSK-16/20Bd	(AB/XAH)
XPA2	15-10	1500	13906	Sat	04479 00212 39448 ... 39720 70299 61564	MFSK-16/20Bd	(AB/XAH)
XPA2	15-10	1520	12106	Sat	04479 00212 39448 ... 39720 70299 61564	MFSK-16/20Bd	(AB/XAH)
XPA2	15-10	1540	10906	Sat	04479 00212 39448 ... 39720 70299 61564	MFSK-16/20Bd	(AB/XAH)
XPA2	16-10	0800	15958	Sun	08788 00001 00000 40670	MFSK-16/20Bd	(AB)
XPA2	16-10	0820	17458	Sun	08788 00001 00000 40670	MFSK-16/20Bd	(AB)
XPA2	16-10	0840	18758	Sun	08788 00001 00000 40670	MFSK-16/20Bd	(AB)
XPA2	16-10	1200	14469	Sun	00904 00232 70219 ... 70386 77740 03530	MFSK-16/20Bd	(AB)
XPA2	16-10	1220	16169	Sun	00904 00232 70219 ... 70386 77740 03530	MFSK-16/20Bd	(AB)
XPA2	16-10	1240	17469	Sun	00904 00232 70219 ... 70386 77740 03530	MFSK-16/20Bd	(AB)
XPA2	17-10	0700	13372	Mon	04266 00188 33780 ... 99721 03430 53723	MFSK-16/20Bd	(AB)
XPA2	17-10	0720	14672	Mon	04266 00188 33780 ... 99721 03430 53723	MFSK-16/20Bd	(AB)



XPA2	17-10	0740	15872	Mon	04266 00188 33780 ... 99721 03430 53723	MFSK-16/20Bd	(AB)
XPA2	17-10	0817	13906	Mon	06555 00027 34327 ... 45630 08488 53701	MFSK-16/20Bd	(PY)
XPA2	17-10	0910	17471	Mon	05954 00188 24777 ... 26833 73308 07322	MFSK-16/20Bd	(AB/XAH)
XPA2	17-10	0930	16149	Mon	05954 00188 24777 ... 26833 73308 07322	MFSK-16/20Bd	(AB)
XPA2	17-10	0950	14406	Mon	05954 00188 24777 ... 26833 73308 07322	MFSK-16/20Bd	(AB)
XPA2	17-10	1500	13906	Mon	04794 00001 00000 36665	MFSK-16/20Bd	(AB)
XPA2	17-10	1520	12106	Mon	04794 00001 00000 36665	MFSK-16/20Bd	(AB)
XPA2	17-10	1540	10906	Mon	04794 00001 00000 36665	MFSK-16/20Bd	(AB)
XPA2	18-10	0500	10238	Tue	07524 00171 83405 ... 43427 23739 77760	MFSK-16/20Bd	(AB)
XPA2	18-10	0520	11138	Tue	07524 00171 83405 ... 43427 23739 77760	MFSK-16/20Bd	(AB)
XPA2	18-10	0540	12138	Tue	07524 00171 83405 ... 43427 23739 77760	MFSK-16/20Bd	(AB)
XPA2	18-10	1100	14537	Tue	02287 00198 00896 ... 59312 36061 27714	MFSK-16/20Bd	(AB)
XPA2	18-10	1120	13437	Tue	02287 00198 00896 ... 59312 36061 27714	MFSK-16/20Bd	(AB)
XPA2	18-10	1140	10737	Tue	02287 00198 00896 ... 59312 36061 27714	MFSK-16/20Bd	(AB)
XPA2	18-10	1200	14469	Tue	00959 00218 29104 ... 63339 34243 30021	MFSK-16/20Bd	(AB)
XPA2	18-10	1220	16169	Tue	00959 00218 29104 ... 63339 34243 30021	MFSK-16/20Bd	(AB)
XPA2	18-10	1240	17469	Tue	00959 00218 29104 ... 63339 34243 30021	MFSK-16/20Bd	(AB)
XPA2	18-10	1600	13542	Tue	02765 00001 00000 37260	MFSK-16/20Bd	(AB/MPJ)
XPA2	18-10	1620	12142	Tue	02765 00001 00000 37260	MFSK-16/20Bd	(AB/MPJ)
XPA2	18-10	1640	11442	Tue	02765 00001 00000 37260	MFSK-16/20Bd	(AB/MPJ)
XPA2	19-10	0700	13372	Wed	04266 00188 33780 ... 99721 03430 53723	MFSK-16/20Bd	(AB)
XPA2	19-10	0720	14672	Wed	04266 00188 33780 ... 99721 03430 53723	MFSK-16/20Bd	(AB)
XPA2	19-10	0740	15872	Wed	04266 00188 33780 ... 99721 03430 53723	MFSK-16/20Bd	(AB)
XPA2	19-10	0910	17471	Wed	05954 00188 24777 ... 26833 73308 07322	MFSK-16/20Bd	(AB)
XPA2	19-10	0930	16149	Wed	05954 00188 24777 ... 26833 73308 07322	MFSK-16/20Bd	(AB)
XPA2	19-10	0950	14406	Wed	05954 00188 24777 ... 26833 73308 07322	MFSK-16/20Bd	(AB)
XPA2	19-10	1100	14672	Wed	04363 00084 07852 ... 71604 33540 31565	MFSK-16/20Bd	(AB)
XPA2	19-10	1120	13472	Wed	04363 00084 07852 ... 71604 33540 31565	MFSK-16/20Bd	(AB)
XPA2	19-10	1140	12172	Wed	04363 00084 07852 ... 71604 33540 31565	MFSK-16/20Bd	(AB)
XPA2	19-10	1200	13452	Wed	04237 00208 78685 ... 28824 16113 40507	MFSK-16/20Bd	(AB)
XPA2	19-10	1220	14452	Wed	04237 00208 78685 ... 28824 16113 40507	MFSK-16/20Bd	(AB)
XPA2	19-10	1240	15852	Wed	04237 00208 78685 ... 28824 16113 40507	MFSK-16/20Bd	(AB)
XPA2	20-10	0500	10238	Thu	07524 00171 83405 ... 43427 23739 77760	MFSK-16/20Bd	(AB)
XPA2	20-10	0520	11138	Thu	07524 00171 83405 ... 43427 23739 77760	MFSK-16/20Bd	(AB)
XPA2	20-10	0540	12138	Thu	07524 00171 83405 ... 43427 23739 77760	MFSK-16/20Bd	(AB)
XPA2	20-10	0910	17438	Thu	00870 00188 48342 ... 96289 15072 06600	MFSK-16/20Bd	(AB)
XPA2	20-10	0930	16338	Thu	00870 00188 48342 ... 96289 15072 06600	MFSK-16/20Bd	(AB)
XPA2	20-10	0950	15938	Thu	00870 00188 48342 ... 96289 15072 06600	MFSK-16/20Bd	(AB)
XPA2	20-10	1100	14672	Thu	04363 00084 07852 ... 71604 33540 31565	MFSK-16/20Bd	(AB)
XPA2	20-10	1120	13472	Thu	04363 00084 07852 ... 71604 33540 31565	MFSK-16/20Bd	(AB)
XPA2	20-10	1140	12172	Thu	04363 00084 07852 ... 71604 33540 31565	MFSK-16/20Bd	(AB)
XPA2	20-10	1600	13542	Thu	01437 00001 00000 36654	MFSK-16/20Bd	(AB/MPJ)

XPA2	20-10	1620	12142	Thu	01437 00001 00000 36654	MFSK-16/20Bd	(AB/MPJ)
XPA2	20-10	1640	11442	Thu	01437 00001 00000 36654	MFSK-16/20Bd	(AB/MPJ)
XPA2	21-10	0800	15958	Fri	00713 00094 42747 ... 65861 95096 65462	MFSK-16/20Bd	(AB)
XPA2	21-10	0820	17458	Fri	00713 00094 42747 ... 65861 95096 65462	MFSK-16/20Bd	(AB)
XPA2	21-10	0840	18758	Fri	00713 00094 42747 ... 65861 95096 65462	MFSK-16/20Bd	(AB)
XPA2	21-10	1100	14537	Fri	02287 00198 00896 ... 59312 36061 27714	MFSK-16/20Bd	(AB)
XPA2	21-10	1120	13437	Fri	02287 00198 00896 ... 59312 36061 27714	MFSK-16/20Bd	(AB)
XPA2	21-10	1140	10737	Fri	02287 00198 00896 ... 59312 36061 27714	MFSK-16/20Bd	(AB)
XPA2	21-10	1200	13452	Fri	04237 00208 78685 ... 28824 16113 40507	MFSK-16/20Bd	(AB)
XPA2	21-10	1220	14452	Fri	04237 00208 78685 ... 28824 16113 40507	MFSK-16/20Bd	(AB)
XPA2	21-10	1240	15852	Fri	04237 00208 78685 ... 28824 16113 40507	MFSK-16/20Bd	(AB)
XPA2	22-10	0910	17438	Sat	00870 00188 48342 ... 96289 15072 06600	MFSK-16/20Bd	(AB)
XPA2	22-10	0930	16338	Sat	00870 00188 48342 ... 96289 15072 06600	MFSK-16/20Bd	(AB)
XPA2	22-10	0950	15938	Sat	00870 00188 48342 ... 96289 15072 06600	MFSK-16/20Bd	(AB)
XPA2	22-10	1500	13906	Sat	09477 00001 00000 36670	MFSK-16/20Bd	(AB)
XPA2	22-10	1520	12106	Sat	09477 00001 00000 36670	MFSK-16/20Bd	(AB)
XPA2	22-10	1540	10906	Sat	09477 00001 00000 36670	MFSK-16/20Bd	(AB)
XPA2	23-10	0800	15958	Sun	00713 00094 42747 ... 65861 95096 65462	MFSK-16/20Bd	(AB)
XPA2	23-10	0820	17458	Sun	00713 00094 42747 ... 65861 95096 65462	MFSK-16/20Bd	(AB)
XPA2	23-10	0840	18758	Sun	00713 00094 42747 ... 65861 95096 65462	MFSK-16/20Bd	(AB)
XPA2	23-10	1200	14469	Sun	00959 00218 29104 ... 63339 34243 30021	MFSK-16/20Bd	(AB/MPJ)
XPA2	23-10	1220	16169	Sun	00959 00218 29104 ... 63339 34243 30021	MFSK-16/20Bd	(AB/MPJ)
XPA2	23-10	1240	17469	Sun	00959 00218 29104 ... 63339 34243 30021	MFSK-16/20Bd	(AB/MPJ)
XPA2	24-10	0700	13372	Mon	00965 00212 90163 ... 76967 44494 60653	MFSK-16/20Bd	(AB)
XPA2	24-10	0720	14672	Mon	00965 00212 90163 ... 76967 44494 60653	MFSK-16/20Bd	(AB)
XPA2	24-10	0740	15872	Mon	00965 00212 90163 ... 76967 44494 60653	MFSK-16/20Bd	(AB)
XPA2	24-10	0910	17471	Mon	05954 00188 24777 ... 26833 73308 07322	MFSK-16/20Bd	(AB)
XPA2	24-10	0930	16149	Mon	05954 00188 24777 ... 26833 73308 07322	MFSK-16/20Bd	(AB)
XPA2	24-10	0950	14406	Mon	05954 00188 24777 ... 26833 73308 07322	MFSK-16/20Bd	(AB)
XPA2	24-10	1500	13906	Mon	00926 00248 10384 ... 04101 76319 56000	MFSK-16/20Bd	(AB/MPJ)
XPA2	24-10	1520	12106	Mon	00926 00248 10384 ... 04101 76319 56000	MFSK-16/20Bd	(AB/MPJ)
XPA2	24-10	1540	10906	Mon	00926 00248 10384 ... 04101 76319 56000	MFSK-16/20Bd	(AB/MPJ)
XPA2	25-10	0500	10238	Tue	01299 00001 00000 36662	MFSK-16/20Bd	(AB)
XPA2	25-10	0520	11138	Tue	01299 00001 00000 36662	MFSK-16/20Bd	(AB)
XPA2	25-10	0540	12138	Tue	01299 00001 00000 36662	MFSK-16/20Bd	(AB)
XPA2	25-10	1100	14537	Tue	02287 00198 00896 ... 59312 36061 27714	MFSK-16/20Bd	(AB)
XPA2	25-10	1120	13437	Tue	02287 00198 00896 ... 59312 36061 27714	MFSK-16/20Bd	(AB)
XPA2	25-10	1140	10737	Tue	02287 00198 00896 ... 59312 36061 27714	MFSK-16/20Bd	(AB)
XPA2	25-10	1200	14469	Tue	00933 00180 29353 ... 34383 43695 61311	MFSK-16/20Bd	(AB)
XPA2	25-10	1220	16169	Tue	00933 00180 29353 ... 34383 43695 61311	MFSK-16/20Bd	(AB)
XPA2	25-10	1240	17469	Tue	00933 00180 29353 ... 34383 43695 61311	MFSK-16/20Bd	(AB)
XPA2	25-10	1600	13542	Tue	00876 00248 18615 ... 61653 97548 70634	MFSK-16/20Bd	(AB/MPJ/HFD)

XPA2	25-10	1620	12142	Tue	00876 00248 18615 ... 61653 97548 70634	MFSK-16/20Bd	(AB/MPJ/HFD)
XPA2	25-10	1640	11442	Tue	00876 00248 18615 ... 61653 97548 70634	MFSK-16/20Bd	(AB/MPJ/HFD)
XPA2	26-10	0700	13372	Wed	00965 00212 90163 ... 76967 44494 60653	MFSK-16/20Bd	(AB)
XPA2	26-10	0720	14672	Wed	00965 00212 90163 ... 76967 44494 60653	MFSK-16/20Bd	(AB)
XPA2	26-10	0740	15872	Wed	00965 00212 90163 ... 76967 44494 60653	MFSK-16/20Bd	(AB)
XPA2	26-10	0910	17471	Wed	05954 00188 24777 ... 26833 73308 07322	MFSK-16/20Bd	(AB)
XPA2	26-10	0930	16149	Wed	05954 00188 24777 ... 26833 73308 07322	MFSK-16/20Bd	(AB)
XPA2	26-10	0950	14406	Wed	05954 00188 24777 ... 26833 73308 07322	MFSK-16/20Bd	(AB)
XPA2	26-10	1100	14672	Wed	04363 00084 07852 ... 71604 33540 31565	MFSK-16/20Bd	(AB)
XPA2	26-10	1120	13472	Wed	04363 00084 07852 ... 71604 33540 31565	MFSK-16/20Bd	(AB)
XPA2	26-10	1140	12172	Wed	04363 00084 07852 ... 71604 33540 31565	MFSK-16/20Bd	(AB)
XPA2	26-10	1200	13452	Wed	00967 00184 52520 ... 39113 47906 35556	MFSK-16/20Bd	(AB)
XPA2	26-10	1220	14452	Wed	00967 00184 52520 ... 39113 47906 35556	MFSK-16/20Bd	(AB)
XPA2	26-10	1240	15852	Wed	00967 00184 52520 ... 39113 47906 35556	MFSK-16/20Bd	(AB)
XPA2	27-10	0500	10238	Thu	05327 00001 00000 36257	MFSK-16/20Bd	(AB)
XPA2	27-10	0520	11138	Thu	05327 00001 00000 36257	MFSK-16/20Bd	(AB)
XPA2	27-10	0540	12138	Thu	05327 00001 00000 36257	MFSK-16/20Bd	(AB)
XPA2	27-10	0910	17438	Thu	05399 00001 00000 36166	MFSK-16/20Bd	(AB)
XPA2	27-10	0930	16338	Thu	05399 00001 00000 36166	MFSK-16/20Bd	(AB)
XPA2	27-10	0950	15938	Thu	05399 00001 00000 36166	MFSK-16/20Bd	(AB)
XPA2	27-10	1100	14672	Thu	04363 00084 07852 ... 71604 33540 31565	MFSK-16/20Bd	(AB)
XPA2	27-10	1120	13472	Thu	04363 00084 07852 ... 71604 33540 31565	MFSK-16/20Bd	(AB)
XPA2	27-10	1140	12172	Thu	04363 00084 07852 ... 71604 33540 31565	MFSK-16/20Bd	(AB)
XPA2	27-10	1600	13542	Thu	00876 00248 18615 ... 61653 97548 70634	MFSK-16/20Bd	(AB)
XPA2	27-10	1620	12142	Thu	00876 00248 18615 ... 61653 97548 70634	MFSK-16/20Bd	(AB)
XPA2	27-10	1640	11442	Thu	00876 00248 18615 ... 61653 97548 70634	MFSK-16/20Bd	(AB)
XPA2	28-10	0800	15958	Fri	00931 00116 40612 ... 29728 53123 51370	MFSK-16/20Bd	(AB)
XPA2	28-10	0820	17458	Fri	00931 00116 40612 ... 29728 53123 51370	MFSK-16/20Bd	(AB)
XPA2	28-10	0840	18758	Fri	00931 00116 40612 ... 29728 53123 51370	MFSK-16/20Bd	(AB)
XPA2	28-10	1100	14537	Fri	02287 00198 00896 ... 59312 36061 27714	MFSK-16/20Bd	(AB/MPJ)
XPA2	28-10	1120	13437	Fri	02287 00198 00896 ... 59312 36061 27714	MFSK-16/20Bd	(AB/MPJ)
XPA2	28-10	1140	10737	Fri	02287 00198 00896 ... 59312 36061 27714	MFSK-16/20Bd	(AB/MPJ)
XPA2	28-10	1200	13452	Fri	00967 00184 52520 ... 39113 47906 35556	MFSK-16/20Bd	(AB)
XPA2	28-10	1220	14452	Fri	00967 00184 52520 ... 39113 47906 35556	MFSK-16/20Bd	(AB)
XPA2	28-10	1240	15852	Fri	00967 00184 52520 ... 39113 47906 35556	MFSK-16/20Bd	(AB)
XPA2	29-10	0910	17438	Sat	07363 00001 00000 34265	MFSK-16/20Bd	(AB)
XPA2	29-10	0930	16338	Sat	07363 00001 00000 34265	MFSK-16/20Bd	(AB)
XPA2	29-10	0950	15938	Sat	07363 00001 00000 34265	MFSK-16/20Bd	(AB)
XPA2	29-10	1500	13906	Sat	00926 00248 10384 ... 04101 76319 56000	MFSK-16/20Bd	(AB)
XPA2	29-10	1520	12106	Sat	00926 00248 10384 ... 04101 76319 56000	MFSK-16/20Bd	(AB)
XPA2	29-10	1540	10906	Sat	00926 00248 10384 ... 04101 76319 56000	MFSK-16/20Bd	(AB)
XPA2	30-10	0800	15958	Sun	00931 00116 40612 ... 29728 53123 51370	MFSK-16/20Bd	(AB)

XPA2	30-10	0820	17458	Sun	00931 00116 40612 ... 29728 53123 51370	MFSK-16/20Bd	(AB)
XPA2	30-10	0840	18758	Sun	00931 00116 40612 ... 29728 53123 51370	MFSK-16/20Bd	(AB)
XPA2	30-10	1200	14469	Sun	00933 00180 29353 ... 34383 43695 61311	MFSK-16/20Bd	(AB)
XPA2	30-10	1220	16169	Sun	00933 00180 29353 ... 34383 43695 61311	MFSK-16/20Bd	(AB)
XPA2	30-10	1240	17469	Sun	00933 00180 29353 ... 34383 43695 61311	MFSK-16/20Bd	(AB)
XPA2	31-10	0700	13372	Mon	00965 00212 90163 ... 76967 44494 60653	MFSK-16/20Bd	(AB)
XPA2	31-10	0720	14672	Mon	00965 00212 90163 ... 76967 44494 60653	MFSK-16/20Bd	(AB)
XPA2	31-10	0740	15872	Mon	00965 00212 90163 ... 76967 44494 60653	MFSK-16/20Bd	(AB)
XPA2	31-10	0910	17471	Mon	01550 00001 00000 33656	MFSK-16/20Bd	(AB)
XPA2	31-10	0930	16149	Mon	01550 00001 00000 33656	MFSK-16/20Bd	(AB)
XPA2	31-10	0950	14406	Mon	01550 00001 00000 33656	MFSK-16/20Bd	(AB)
XPA2	31-10	1500	13906	Mon	02012 00001 00000 32253	MFSK-16/20Bd	(AB)
XPA2	31-10	1520	12106	Mon	02012 00001 00000 32253	MFSK-16/20Bd	(AB)
XPA2	31-10	1540	10906	Mon	02012 00001 00000 32253	MFSK-16/20Bd	(AB)
XPB	13-10	0650	9283	Thu	Russian intel (1m42s)	MFSK-16/132Bd	(PY/VSh)
XPB	13-10	0655	10427	Thu	Russian intel (1m42s)	MFSK-16/132Bd	(PY/VSh)
XPB	13-10	0700	11574	Thu	Russian intel (1m42s)	MFSK-16/132Bd	(PY/VSh)
XPB	13-10	0705	12192	Thu	Russian intel (1m42s)	MFSK-16/132Bd	(AB)
XPB	13-10	0710	13964	Thu	Russian intel (1m42s)	MFSK-16/132Bd	(PY/VSh)
XPB	13-10	0715	14712	Thu	Russian intel (1m42s)	MFSK-16/132Bd	(AB/PY)
XPB	13-10	0745	9283	Thu	Russian intel (2m34s)	MFSK-16/132Bd	(PY/VSh)
XPB	13-10	0750	10427	Thu	Russian intel during 3 seconds then abruptly off	MFSK-16/132Bd	(PY/VSh)
XPB	13-10	0750	11574	Thu	Russian intel up mid message (2m12s)	MFSK-16/132Bd	(PY/VSh)
XPB	13-10	0755	11574	Thu	Russian intel (2m34s)	MFSK-16/132Bd	(AB/PY)
XPB	13-10	0800	12192	Thu	Russian intel not heard	MFSK-16/132Bd	(PY/VSh)
XPB	13-10	0805	13964	Thu	Russian intel (2m34s)	MFSK-16/132Bd	(PY/VSh)
XPB	13-10	0810	14712	Thu	Russian intel (2m34s)	MFSK-16/132Bd	(PY/VSh)
XPB	28-10	1135	8094	Fri	Russian intel. (1m32s)	MFSK-16/66Bd	(PY)
XPB	28-10	1140	9142	Fri	Russian intel. (1m32s)	MFSK-16/66Bd	(PY)
XPB1	1-10	1100	16245	Sat	Russian intel.	MFSK-16	(AB/XAH)
XPB1	1-10	1110	15825	Sat	Russian intel.	MFSK-16	(AB/XAH)
XPB1	1-10	1120	14925	Sat	Russian intel.	MFSK-16	(AB/XAH)
XPB1	1-10	1130	13525	Sat	Russian intel.	MFSK-16	(AB/XAH)
XPB1	1-10	1140	12125	Sat	Russian intel.	MFSK-16	(AB/XAH)
XPB1	1-10	1150	11425	Sat	Russian intel.	MFSK-16	(AB/XAH)
XPB1	1-10	1200	14462	Sat	Russian intel.	MFSK-16	(AB/XAH)
XPB1	1-10	1210	13962	Sat	Russian intel.	MFSK-16	(AB/XAH)
XPB1	1-10	1220	13462	Sat	Russian intel.	MFSK-16	(AB/XAH)
XPB1	1-10	1230	12162	Sat	Russian intel.	MFSK-16	(AB/XAH)
XPB1	1-10	1240	11562	Sat	Russian intel.	MFSK-16	(AB/XAH)
XPB1	1-10	1250	10962	Sat	Russian intel.	MFSK-16	(AB/XAH)
XPB1	2-10	1900	9323	Sun	Russian intel.	MFSK-16	(AB)

<b>XPB1</b>	2-10	1910	8123	Sun	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	2-10	1920	7723	Sun	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	2-10	1930	6923	Sun	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	2-10	1940	5823	Sun	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	2-10	1950	5123	Sun	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	3-10	0500	13471	Mon	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	3-10	0510	14771	Mon	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	3-10	0520	15871	Mon	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	3-10	0530	16271	Mon	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	3-10	0540	17471	Mon	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	3-10	0550	18271	Mon	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	3-10	1200	14462	Mon	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	3-10	1210	13962	Mon	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	3-10	1220	13462	Mon	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	3-10	1230	12162	Mon	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	3-10	1240	11562	Mon	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	3-10	1250	10962	Mon	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	4-10	0500	13471	Tue	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	4-10	0510	14771	Tue	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	4-10	0520	15871	Tue	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	4-10	0530	16271	Tue	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	4-10	0540	17471	Tue	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	4-10	0550	18271	Tue	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	4-10	1900	9323	Tue	Russian intel.	MFSK-16	(AB/HFD)
<b>XPB1</b>	4-10	1910	8123	Tue	Russian intel.	MFSK-16	(AB/HFD)
<b>XPB1</b>	4-10	1920	7723	Tue	Russian intel.	MFSK-16	(AB/HFD)
<b>XPB1</b>	4-10	1930	6923	Tue	Russian intel.	MFSK-16	(AB/HFD)
<b>XPB1</b>	4-10	1940	5823	Tue	Russian intel.	MFSK-16	(AB/HFD)
<b>XPB1</b>	4-10	1950	5123	Tue	Russian intel.	MFSK-16	(AB/HFD)
<b>XPB1</b>	5-10	1100	16245	Wed	Russian intel.	MFSK-16	(AB/HFD)
<b>XPB1</b>	5-10	1110	15825	Wed	Russian intel.	MFSK-16	(AB/HFD)
<b>XPB1</b>	5-10	1120	14925	Wed	Russian intel.	MFSK-16	(AB/HFD)
<b>XPB1</b>	5-10	1130	13525	Wed	Russian intel.	MFSK-16	(AB/HFD)
<b>XPB1</b>	5-10	1140	12125	Wed	Russian intel.	MFSK-16	(AB/HFD)
<b>XPB1</b>	5-10	1150	11425	Wed	Russian intel.	MFSK-16	(AB/HFD)
<b>XPB1</b>	8-10	1100	16245	Sat	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	8-10	1110	15825	Sat	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	8-10	1120	14925	Sat	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	8-10	1130	13525	Sat	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	8-10	1140	12125	Sat	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	8-10	1150	11425	Sat	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	8-10	1200	14462	Sat	Russian intel.	MFSK-16	(AB/MPJ/HFD)

XPB1	8-10	1210	13962	Sat	Russian intel.	MFSK-16	(AB/MPJ/HFD)
XPB1	8-10	1220	13462	Sat	Russian intel.	MFSK-16	(AB/HFD)
XPB1	8-10	1230	12162	Sat	Russian intel.	MFSK-16	(AB/HFD)
XPB1	8-10	1240	11562	Sat	Russian intel.	MFSK-16	(AB/HFD)
XPB1	8-10	1250	10962	Sat	Russian intel.	MFSK-16	(AB/HFD)
XPB1	9-10	1900	9323	Sun	Russian intel.	MFSK-16	(AB)
XPB1	9-10	1910	8123	Sun	Russian intel.	MFSK-16	(AB)
XPB1	9-10	1920	7723	Sun	Russian intel.	MFSK-16	(AB)
XPB1	9-10	1930	6923	Sun	Russian intel.	MFSK-16	(AB)
XPB1	9-10	1940	5823	Sun	Russian intel.	MFSK-16	(AB)
XPB1	9-10	1950	5123	Sun	Russian intel.	MFSK-16	(AB)
XPB1	10-10	0500	13471	Mon	Russian intel.	MFSK-16	(AB/HFD)
XPB1	10-10	0510	14771	Mon	Russian intel.	MFSK-16	(AB/HFD)
XPB1	10-10	0520	15871	Mon	Russian intel.	MFSK-16	(AB/HFD)
XPB1	10-10	0530	16271	Mon	Russian intel.	MFSK-16	(AB/HFD)
XPB1	10-10	0540	17471	Mon	Russian intel.	MFSK-16	(AB/HFD)
XPB1	10-10	0550	18271	Mon	Russian intel.	MFSK-16	(AB/HFD)
XPB1	10-10	1200	14462	Mon	Russian intel.	MFSK-16	(AB)
XPB1	10-10	1210	13962	Mon	Russian intel.	MFSK-16	(AB)
XPB1	10-10	1220	13462	Mon	Russian intel.	MFSK-16	(AB)
XPB1	10-10	1230	12162	Mon	Russian intel.	MFSK-16	(AB)
XPB1	10-10	1240	11562	Mon	Russian intel.	MFSK-16	(AB)
XPB1	10-10	1250	10962	Mon	Russian intel.	MFSK-16	(AB)
XPB1	11-10	0500	13471	Tue	Russian intel.	MFSK-16	(AB)
XPB1	11-10	0510	14771	Tue	Russian intel.	MFSK-16	(AB)
XPB1	11-10	0520	15871	Tue	Russian intel.	MFSK-16	(AB)
XPB1	11-10	0530	16271	Tue	Russian intel.	MFSK-16	(AB)
XPB1	11-10	0540	17471	Tue	Russian intel.	MFSK-16	(AB)
XPB1	11-10	0550	18271	Tue	Russian intel.	MFSK-16	(AB)
XPB1	11-10	1900	9323	Tue	Russian intel.	MFSK-16	(AB)
XPB1	11-10	1910	8123	Tue	Russian intel.	MFSK-16	(AB)
XPB1	11-10	1920	7723	Tue	Russian intel.	MFSK-16	(AB)
XPB1	11-10	1930	6923	Tue	Russian intel.	MFSK-16	(AB)
XPB1	11-10	1940	5823	Tue	Russian intel.	MFSK-16	(AB)
XPB1	11-10	1950	5123	Tue	Russian intel.	MFSK-16	(AB)
XPB1	12-10	1100	16245	Wed	Russian intel.	MFSK-16	(AB)
XPB1	12-10	1110	15825	Wed	Russian intel.	MFSK-16	(AB)
XPB1	12-10	1120	14925	Wed	Russian intel.	MFSK-16	(AB)
XPB1	12-10	1130	13525	Wed	Russian intel.	MFSK-16	(AB)
XPB1	12-10	1140	12125	Wed	Russian intel.	MFSK-16	(AB)
XPB1	12-10	1150	11425	Wed	Russian intel.	MFSK-16	(AB)
XPB1	15-10	1100	16245	Sat	Russian intel.	MFSK-16	(AB)



XPB1	15-10	1110	15825	Sat	Russian intel.	MFSK-16	(AB)
XPB1	15-10	1120	14925	Sat	Russian intel.	MFSK-16	(AB)
XPB1	15-10	1130	13525	Sat	Russian intel.	MFSK-16	(AB)
XPB1	15-10	1140	12125	Sat	Russian intel.	MFSK-16	(AB)
XPB1	15-10	1150	11425	Sat	Russian intel.	MFSK-16	(AB)
XPB1	15-10	1200	14462	Sat	Russian intel.	MFSK-16	(AB)
XPB1	15-10	1210	13962	Sat	Russian intel.	MFSK-16	(AB)
XPB1	15-10	1220	13462	Sat	Russian intel.	MFSK-16	(AB)
XPB1	15-10	1230	12162	Sat	Russian intel.	MFSK-16	(AB)
XPB1	15-10	1240	11562	Sat	Russian intel.	MFSK-16	(AB)
XPB1	15-10	1250	10962	Sat	Russian intel.	MFSK-16	(AB)
XPB1	16-10	1900	9323	Sun	Russian intel.	MFSK-16	(AB)
XPB1	16-10	1910	8123	Sun	Russian intel.	MFSK-16	(AB)
XPB1	16-10	1920	7723	Sun	Russian intel.	MFSK-16	(AB)
XPB1	16-10	1930	6923	Sun	Russian intel.	MFSK-16	(AB)
XPB1	16-10	1940	5823	Sun	Russian intel.	MFSK-16	(AB)
XPB1	16-10	1950	5123	Sun	Russian intel.	MFSK-16	(AB)
XPB1	17-10	0500	13471	Mon	Russian intel.	MFSK-16	(AB)
XPB1	17-10	0510	14771	Mon	Russian intel.	MFSK-16	(AB)
XPB1	17-10	0520	15871	Mon	Russian intel.	MFSK-16	(AB)
XPB1	17-10	0530	16271	Mon	Russian intel.	MFSK-16	(AB)
XPB1	17-10	0540	17471	Mon	Russian intel.	MFSK-16	(AB)
XPB1	17-10	0550	18271	Mon	Russian intel.	MFSK-16	(AB)
XPB1	17-10	1200	14462	Mon	Russian intel.	MFSK-16	(AB)
XPB1	17-10	1210	13962	Mon	Russian intel.	MFSK-16	(AB)
XPB1	17-10	1220	13462	Mon	Russian intel.	MFSK-16	(AB)
XPB1	17-10	1230	12162	Mon	Russian intel.	MFSK-16	(AB)
XPB1	17-10	1240	11562	Mon	Russian intel.	MFSK-16	(AB)
XPB1	17-10	1250	10962	Mon	Russian intel.	MFSK-16	(AB)
XPB1	18-10	0500	13471	Tue	Russian intel.	MFSK-16	(AB)
XPB1	18-10	0510	14771	Tue	Russian intel.	MFSK-16	(AB)
XPB1	18-10	0520	15871	Tue	Russian intel.	MFSK-16	(AB)
XPB1	18-10	0530	16271	Tue	Russian intel.	MFSK-16	(AB)
XPB1	18-10	0540	17471	Tue	Russian intel.	MFSK-16	(AB)
XPB1	18-10	0550	18271	Tue	Russian intel.	MFSK-16	(AB)
XPB1	18-10	1300	20075	Tue	Russian intel	MFSK-16	(FD)
XPB1	18-10	1310	19575	Tue	Russian intel	MFSK-16	(FD)
XPB1	18-10	1320	18175	Tue	Russian intel	MFSK-16	(FD)
XPB1	18-10	1330	17475	Tue	Russian intel	MFSK-16	(FD)
XPB1	18-10	1340	16275	Tue	Russian intel	MFSK-16	(FD)
XPB1	18-10	1350	14975	Tue	Russian intel	MFSK-16	(FD)
XPB1	18-10	1900	9323	Tue	Russian intel.	MFSK-16	(AB)



<b>XPB1</b>	18-10	1910	8123	Tue	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	18-10	1920	7723	Tue	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	18-10	1930	6923	Tue	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	18-10	1940	5823	Tue	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	18-10	1950	5123	Tue	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	19-10	1100	16245	Wed	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	19-10	1110	15825	Wed	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	19-10	1120	14925	Wed	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	19-10	1130	13525	Wed	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	19-10	1140	12125	Wed	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	19-10	1150	11425	Wed	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	21-10	1300	20075	Fri	Russian intel	MFSK-16	(FD)
<b>XPB1</b>	21-10	1310	19575	Fri	Russian intel	MFSK-16	(FD)
<b>XPB1</b>	21-10	1320	18175	Fri	Russian intel	MFSK-16	(FD)
<b>XPB1</b>	21-10	1330	17475	Fri	Russian intel	MFSK-16	(FD)
<b>XPB1</b>	21-10	1340	16275	Fri	Russian intel	MFSK-16	(FD)
<b>XPB1</b>	21-10	1350	14975	Fri	Russian intel	MFSK-16	(FD)
<b>XPB1</b>	22-10	1100	16245	Sat	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	22-10	1110	15825	Sat	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	22-10	1120	14925	Sat	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	22-10	1130	13525	Sat	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	22-10	1140	12125	Sat	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	22-10	1150	11425	Sat	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	22-10	1200	14462	Sat	Russian intel.	MFSK-16	(AB/RL)
<b>XPB1</b>	22-10	1210	13962	Sat	Russian intel.	MFSK-16	(AB/RL)
<b>XPB1</b>	22-10	1220	13462	Sat	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	22-10	1230	12162	Sat	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	22-10	1240	11562	Sat	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	22-10	1250	10962	Sat	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	23-10	1900	9323	Sun	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	23-10	1910	8123	Sun	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	23-10	1920	7723	Sun	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	23-10	1930	6923	Sun	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	23-10	1940	5823	Sun	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	23-10	1950	5123	Sun	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	24-10	0500	13471	Mon	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	24-10	0510	14771	Mon	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	24-10	0520	15871	Mon	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	24-10	0530	16271	Mon	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	24-10	0540	17471	Mon	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	24-10	0550	18271	Mon	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	24-10	1200	14462	Mon	Russian intel.	MFSK-16	(AB)

XPB1	24-10	1210	13962	Mon	Russian intel.	MFSK-16	(AB)
XPB1	24-10	1220	13462	Mon	Russian intel.	MFSK-16	(AB)
XPB1	24-10	1230	12162	Mon	Russian intel.	MFSK-16	(AB)
XPB1	24-10	1240	11562	Mon	Russian intel.	MFSK-16	(AB)
XPB1	24-10	1250	10962	Mon	Russian intel.	MFSK-16	(AB)
XPB1	25-10	0500	13471	Tue	Russian intel.	MFSK-16	(AB)
XPB1	25-10	0510	14771	Tue	Russian intel.	MFSK-16	(AB)
XPB1	25-10	0520	15871	Tue	Russian intel.	MFSK-16	(AB)
XPB1	25-10	0530	16271	Tue	Russian intel.	MFSK-16	(AB)
XPB1	25-10	0540	17471	Tue	Russian intel.	MFSK-16	(AB)
XPB1	25-10	0550	18271	Tue	Russian intel.	MFSK-16	(AB)
XPB1	25-10	1300	20075	Tue	Russian intel	MFSK-16	(FD)
XPB1	25-10	1310	19575	Tue	Russian intel	MFSK-16	(FD)
XPB1	25-10	1320	18175	Tue	Russian intel	MFSK-16	(FD)
XPB1	25-10	1330	17475	Tue	Russian intel	MFSK-16	(FD)
XPB1	25-10	1340	16275	Tue	Russian intel	MFSK-16	(FD)
XPB1	25-10	1350	14975	Tue	Russian intel	MFSK-16	(FD)
XPB1	25-10	1900	9323	Tue	Russian intel.	MFSK-16	(AB)
XPB1	25-10	1910	8123	Tue	Russian intel.	MFSK-16	(AB)
XPB1	25-10	1920	7723	Tue	Russian intel.	MFSK-16	(AB)
XPB1	25-10	1930	6923	Tue	Russian intel.	MFSK-16	(AB)
XPB1	25-10	1940	5823	Tue	Russian intel.	MFSK-16	(AB)
XPB1	25-10	1950	5123	Tue	Russian intel.	MFSK-16	(AB)
XPB1	26-10	1100	16245	Wed	Russian intel.	MFSK-16	(AB)
XPB1	26-10	1110	15825	Wed	Russian intel.	MFSK-16	(AB)
XPB1	26-10	1120	14925	Wed	Russian intel.	MFSK-16	(AB)
XPB1	26-10	1130	13525	Wed	Russian intel.	MFSK-16	(AB)
XPB1	26-10	1140	12125	Wed	Russian intel.	MFSK-16	(AB)
XPB1	26-10	1150	11425	Wed	Russian intel.	MFSK-16	(AB)
XPB1	28-10	1300	20075	Fri	Russian intel	MFSK-16	(Time)
XPB1	28-10	1310	19575	Fri	Russian intel	MFSK-16	(Time)
XPB1	28-10	1320	18175	Fri	Russian intel	MFSK-16	(AB)
XPB1	28-10	1330	17475	Fri	Russian intel	MFSK-16	(AB)
XPB1	28-10	1340	16275	Fri	Russian intel	MFSK-16	(AB)
XPB1	28-10	1350	14975	Fri	Russian intel	MFSK-16	(AB)
XPB1	29-10	1100	16245	Sat	Russian intel.	MFSK-16	(AB/MPJ)
XPB1	29-10	1110	15825	Sat	Russian intel.	MFSK-16	(AB)
XPB1	29-10	1120	14925	Sat	Russian intel.	MFSK-16	(AB)
XPB1	29-10	1130	13525	Sat	Russian intel.	MFSK-16	(AB)
XPB1	29-10	1140	12125	Sat	Russian intel.	MFSK-16	(AB)
XPB1	29-10	1150	11425	Sat	Russian intel.	MFSK-16	(AB)
XPB1	29-10	1200	14462	Sat	Russian intel.	MFSK-16	(AB)

<b>XPB1</b>	29-10	1210	13962	Sat	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	29-10	1220	13462	Sat	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	29-10	1230	12162	Sat	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	29-10	1240	11562	Sat	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	29-10	1250	10962	Sat	Russian intel.	MFSK-16	(AB/MPJ)
<b>XPB1</b>	30-10	1900	9323	Sun	Russian intel.	MFSK-16	(AB/MPJ)
<b>XPB1</b>	30-10	1910	8123	Sun	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	30-10	1920	7723	Sun	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	30-10	1930	6923	Sun	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	30-10	1940	5823	Sun	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	30-10	1950	5123	Sun	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	31-10	0500	13471	Mon	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	31-10	0510	14771	Mon	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	31-10	0520	15871	Mon	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	31-10	0530	16271	Mon	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	31-10	0540	17471	Mon	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	31-10	0550	18271	Mon	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	31-10	1200	14462	Mon	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	31-10	1210	13962	Mon	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	31-10	1220	13462	Mon	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	31-10	1230	12162	Mon	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	31-10	1240	11562	Mon	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	31-10	1250	10962	Mon	Russian intel.	MFSK-16	(AB)

## CONTRIBUTORS

AB	Ary Boender, Netherlands
AB-BLR	Ary Boender via remote rx Belarus
AB-GRC	Ary Boender via remote rx Greece
AB-HK	Ary Boender via remote rx Hong Kong
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-KWT	Ary Boender via remote rx Kuwait
AB-POL	Ary Boender via remote rx Poland
AB-RUS	Ary Boender via remote rx Russia
AB-TWN	Ary Boender via remote rx Taiwan
AB-USA	Ary Boender via remote rx USA
CMP	Cameron MacPherson
Dan	Daniel LU5EMM, Argentina
EW	Eddy Waters, Australia
FD	Full Day Waterfall, University Twente SDR
HFD	Hans-Friedrich Dumrese, Germany
HFD-J	Hans-Friedrich Dumrese via remote rx Japan
HK	Hiroyuki Komatsubara, Japan
JPL	JPL, NB, Canada (and various remote rx)
Kalv	Kalvados
linkz	Linkz, S.E. France
Mario-J	Mario via remote rx Japan
Max	Max
Moon	Moonlight (Dave AU)
MPJ	Jim, SW England
MPJ-HNG	Jim via remote rx Hungary
MPJ-HOL	Jim via remote rx Netherlands
MPJ-POL	Jim via remote rx Poland
Phil	Philco, NJ, USA
Priyom	Priyom Team
PY	Pierre Ynard, France and via remote rx
RL	Roberto Landolpho, Brazil
RR2	Rich Ray, IL, USA
Subilo	Subilo
Time	Time Machine
VSh	V. Shortwaver
XAH	Xaver Andreas Hellmeier, Germany

## 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

#### Voice stations

Code	Language	Origin	Related stations
<b>E06</b>	English	Russia	G06, G06b, S06, S06b, S06c, M14, F01, F06, F06a
<b>E07</b>	English	Russia	E07a, V07, M12, XPA1, XPA2, XPB1
<b>E07a</b>	English	Russia	E07, V07, M12, XPA1, XPA2, XPB1
<b>E11</b>	English	Poland	E11a, S11a, F03, P03
<b>E11a</b>	English	Poland	E11, S11a, F03, P03
<b>E17z</b>	English	Ukraine	S06s
<b>E25</b>	English	Egypt	E25a
<b>E25a</b>	English	Egypt	E25
<b>G06</b>	German	Russia	E06, G06b, S06, S06b, S06c, M14, F01, F06, F06a
<b>G06b</b>	German	Russia	E06, G06, S06, S06b, S06c, M14, F01, F06, F06a
<b>S06</b>	Russian	Russia	E06, G06, G06b, S06b, S06c, M14, F01, F06, F06a
<b>S06b</b>	Russian	Russia	E06, G06, G06b, S06, S06c, M14, F01, F06, F06a
<b>S06c</b>	Russian	Russian	E06, G06, G06b, S06, S06b, M14, F01, F06, F06a
<b>S06s</b>	Russian	Ukraine	E17z
<b>S11a</b>	Russian	Poland	E11, E11a, F03, P03
<b>S25</b>	Russian	Russia	
<b>V07</b>	Spanish	Russia	E07, M12, XPA1, XPA2, XPB1
<b>V13</b>	Mandarin	Taiwan	
<b>V15</b>	Korean	North Korea	
<b>V24</b>	Korean	South Korea	
<b>V26</b>	Chinese	China	M95, Q26
<b>V28</b>	Korean	North Korea	
<b>VC01</b>	Chinese	China	VC03, MC03
<b>VC03</b>	Chinese	China	VC01, MC03

### Morse stations

Code	Mode	Origin	Related stations
M01	Morse	Russia	M01a
M01a	Morse	Russia	M01
M12	Morse	Russia	E07, V07, XPA1, XPA2, XPBa
M14	Morse	Russia	E06, G06, G06b, S06, S06b, S06c, 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
M89	Morse	China	
M95	Morse	China	V26, Q26
MC03	Morse	China	VC01, VC03
UM03	Morse	China	
UM04	Morse	Bulgaria	PROMRÖ daily schedule
UM10	Morse	?	

### Digital stations

Code	Mode	Origin	Related stations
F01	FSK	Russia	E06, G06, S06, S06b, S06c, M14, F06, F06a
F02	MFSK-4/150Bd/4000Hz	Russia	
F03	2FSK, 4FSK	Poland	E11, E11a, S11a, P03
F06	FSK	Russia	E06, G06, S06, S06b, S06c, M14, F01, F06a
F06a	FSK	Russia	E06, G06, S06, S06b, S06c, M14, F01, F06
HM01	Voice/RDFT	Cuba	
M42	Various	Russia	
P03	BPSK, QPSK	Poland	E11, E11a, S11a, F03
Q26	4+4 QPSK	China	V26, M95
SK01	Various	Cuba	
X06	MFSK-6	Russia	X06a, X06b, X06c, X06d
X06a	MFSK-6	Russia	X06a, X06b, X06c, X06d
X06b	MFSK-6	Russia	X06a, X06b, X06c, X06d
X06c	MFSK-6	Russia	X06a, X06b, X06c, X06d
X06d	CW	Russia	X06a, X06b, X06c, X06d
XPA	MFSK-20	Russia	E07, V07, M12, XPA2, XPB1
XPA2	MFSK-16	Russia	E07, V07, M12, XPA1, XPB1
XPB1	MFSK-16	Russia	E07, V07, M12, XPA1, XPA2

### 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	Itmien
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

F03	Undefined FSK
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
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
- N&O uses designator POL for Polish digital modes without a designator
- 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.

All information in this newsletter was submitted by independent radio monitors or has been obtained from public available sources and public sites on the web. Wherever data was obtained via the web or elsewhere, references and/or links to these sources have been noted.

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### Relevant mailing lists and websites:

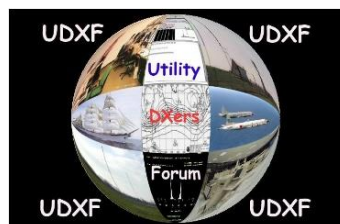
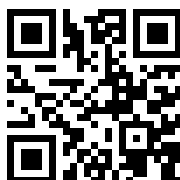
NUMBERS & ODDITIES	<a href="http://www.numbersoddities.nl">http://www.numbersoddities.nl</a>
SPY NUMBERS ONLINE DATABASE	<a href="http://www.spynumbers.com/numbersDB">http://www.spynumbers.com/numbersDB</a>
UDXF - UTILITY DXERS FORUM	<a href="http://www.udxf.nl">http://www.udxf.nl</a>
HF UNDERGROUND	<a href="http://www.hfunderground.com/board/">http://www.hfunderground.com/board/</a>
PRIYOM	<a href="http://priyom.org/">http://priyom.org/</a>
ENIGMA	<a href="http://www.signalshed.com/">http://www.signalshed.com/</a>
NUMBERS STATIONS SCHEDULES	<a href="http://priyom.org/number-stations/station-schedule">http://priyom.org/number-stations/station-schedule</a>

To become an UDXF member go to <https://groups.io/g/UDXF> and follow the instructions.

To become a Spooks member go to <http://mailman.gth.net/mailman/listinfo/spooks> fill in the form and follow the instructions that will be mailed to you.

976 27364 92866 89428 61288 49982 30498 32704 81276 61	
986 48932 70987 32123 49817 26346 81267 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 1	
591 87364 87265 96718 27638 12673 84769 28743 98127 0	
8 63298 75698 27465 87326 49876 28376 81273 98615 86	
67 87432 74328 78674 29867 32867 67867 86786 43266 486	
37 68768 68763 34234 34238 68768 62342 48273 48768 20	
36 98432 32432 86743 43286 43286 43286 43286 43286 432	
743 86743 86743 39867 32867 86743 43286 43286 43286 86	
741 86743 86743 86743 86743 86743 86743 86743 86743 43	
493 98798 98754 98754 98754 98754 29867 67543 67986 86	
76 87698 69876 87698 69876 87612 12341 34867 86798 65	
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