

402 20333 42143 21307 12798 8322 10011 34433 70021 00
 314 14463 8581 19593 40593 81388 64568 12455 85781 53
 246 01075 18002 14984 53393 41368 28085 56953 58686 71
 157 41 61170 60688 60256 62652 95683 82429 48 73
 746 61170 83090 07192 86437 57524 18135 26488 15847 03
 153070 90593 49368 69186 23536 24132 59165 58743
 133064 10809 86213 04685 69443 06040 32078 97643
 707856 15621 15647 84325 08096 41943 76712 55903
 384412 13741 37600 24052 72499 22656 72902 45307
 060 445 00441 53297 13677 27032 31016 61517 64 59
 343 445 00441 53297 13677 27032 31016 61517 64 59
 390 7159 11190 26037 10692 45472 98800 15359 85
 507 96348 383 86835 09964 69719 42008 1038 34633 46
 715 26831 32045 36714 12445 98835 101078 60073 33264 51

Numbers & Oddities

Edition #347, August 2026

Editor: Ary Boender email: udxf@udxf.nl

Numbers & Oddities <http://www.numbersoddities.nl>

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

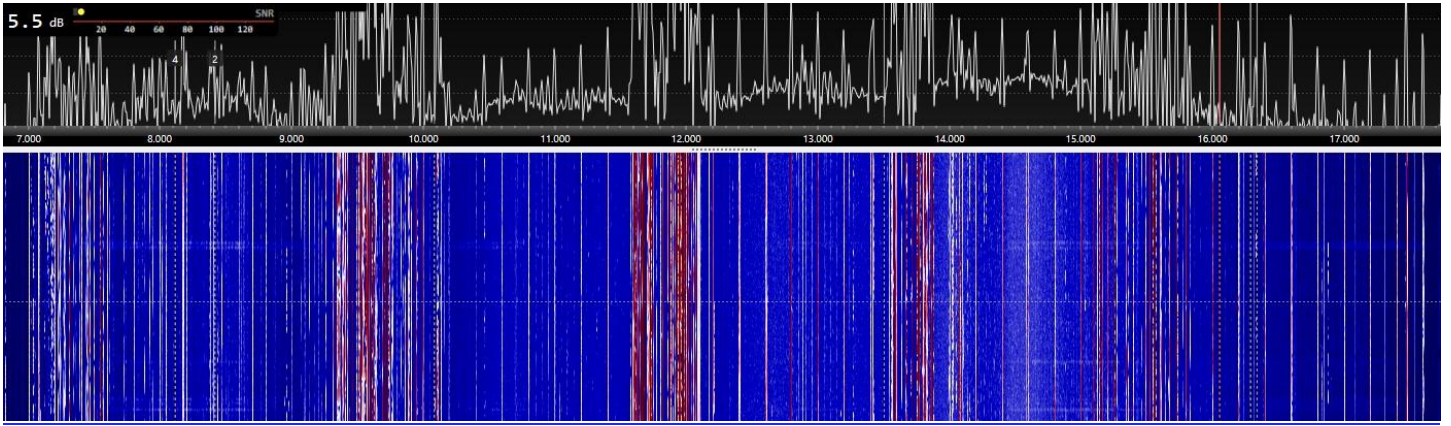


-. .- -- -... . - - - - -.. -.. .. -

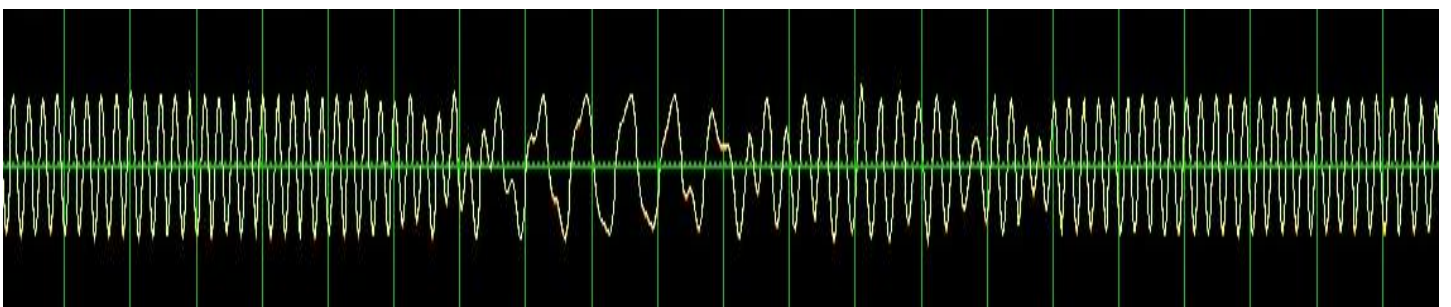


Numbers and Oddities

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NOTE FROM THE EDITOR

Besides the usual transcripts and logs we received a collection of logs from PY covering the Russian operator 7 tests in June, July and August. Thanks for that.

Secret Communications 5

First opening day: Sunday 1 November 2026

Following the success of earlier editions of Secret Communications, the last of which was in 2023, Crypto Museum and the Foundation for German Communications (CDV&T) have teamed up again. The Crypto Museum is very pleased to announce the new exhibition: Secret Communications 5, to be held in Duivendrecht (near Amsterdam, Netherlands). It is the first opening of the CDV&T museum since the passing of CDV&T's chairman Arthur Bauer last year.

See <https://www.cryptomuseum.com/events/2026/sc/> for more information.

Secret Communications 5 will be open to everyone on the following days:

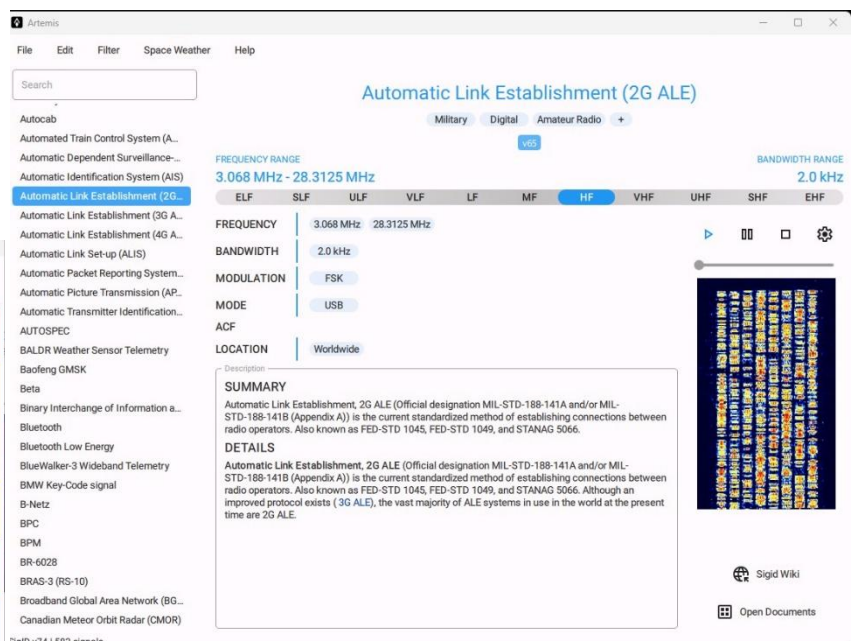
Day	Date	Local time	Admission
Sunday	01 November 2026	1000-1700	Free
Saturday	14 November 2026	1000-1700	Free
Sunday	15 November 2026	1000-1700	Free
Sunday	29 November 2026	1000-1700	Free
Saturday	12 December 2026	1000-1700	Free
Sunday	13 December 2026	1000-1700	Free
Sunday	27 December 2026	1000-1700	Free



Websites: [Crypto Museum](https://www.cryptomuseum.com/) and [CDV&T](https://www.cdvandt.nl/)

Artemis update

Artemis combines a comprehensive RF signal library of over 580 signals with parametric filtering for manual identification. The program also includes space weather info. A new version of this excellent program is available from <https://aresvalley.com/>





VOICE STATIONS

E07

18241/17456/15937 kHz, 1000/1020/1040 UTC

18241/17456/15937 kHz, 01-08, 1000/1020/1040 UTC

249 249 249 1 1091 176 1091 176
47273 89056 18752 85708 16820 18921 71488 10997 23816 61951
88972 16895 27514 65537 93057 34312 19396 39491 56351 51540
18874 04492 33368 56431 53728 10160 48047 48548 12108 78100
55251 65206 48474 19510 33785 02692 96844 20131 56060 53753
70414 48900 66841 76233 82769 00653 90288 98298 81835 13988
52162 55977 05928 17246 96116 01034 19476 64675 57325 00472
59404 77742 70924 80351 55819 06973 64641 17192 36585 68431
45189 98541 57717 25924 95432 25539 89389 33966 53110 01493
35883 48074 87788 98701 18353 66451 93048 54339 88607 23680
64958 11813 34949 28602 10622 95991 13257 14184 93395 54299
33728 85491 23602 93795 43350 57837 84137 54618 39048 06987
20751 91036 59788 34852 50989 51438 67438 74236 31801 59381
10524 70079 84764 57189 27358 56227 21726 27757 03248 80805
52866 61439 31334 10469 31300 68209 75654 12296 16052 14955
41348 77702 05022 30515 75738 72429 91441 40447 19043 19708
73571 82795 10482 98741 99244 30206 80193 92962 88667 01218
32239 14269 19749 50535 01499 63232 29348 22829 25189 54579
78895 34844 20200 33586 49281 33596

18241/17456/15937 kHz, 13-08/15-08, 1000/1020/1040 UTC

249 249 249 1 9148 179 9148 179
98077 01703 29946 57875 20809 02190 34723 47218 89091 35423
62256 85741 23470 06446 05492 59616 44068 61024 14116 36763
87937 02824 31080 51990 69040 34036 21423 39412 40555 48572
52468 42911 90867 61115 72147 79313 45843 44879 51598 94120
31097 37434 83896 45092 17777 19163 32532 49370 81485 26509
67551 67611 31064 08545 42856 66353 89924 67880 95883 25372
32897 69381 88444 10286 94672 37181 13482 25375 51576 10920
31348 42559 85965 20979 20546 52240 10116 08905 02277 26411
68558 87055 26327 63522 48249 20718 47403 91654 77292 15700
65268 11532 64645 00913 87452 75724 63325 37755 50214 80830
72997 99075 04134 32427 29777 05833 21876 22700 21257 46090
61734 48998 71468 12908 62129 42169 00834 60558 31856 35463
84517 28873 42910 84991 33071 56888 45789 30627 42914 99183
06128 72404 11455 15111 67699 20285 08400 81111 43138 42923
84741 09181 67336 36067 25963 17890 23879 94538 80034 43215
57132 69331 19559 44560 64947 85733 66955 61108 84966 32117
39835 94041 01198 03015 60104 83381 02646 45429 05214 86446
07745 89580 76093 66311 35807 20565 12416 27378 79014 000 000

18241/17456/15937 kHz, 27-08/29-08, 1000/1025/1051 UTC

249 249 249 1 5883 183 5883 183
95411 74824 12267 22874 23692 69025 13797 69704 54040 17563
54646 83708 11034 23662 85683 65704 96551 89069 60493 14007
04090 11109 49232 62492 71721 11184 09704 44602 74760 11466
58332 93676 75470 23845 11047 28627 93298 74616 24273 31300
75429 43937 38835 68145 90221 58930 48451 97812 24455 44912
00462 91942 11685 85625 98949 65635 54706 49000 72950 05434
65723 44775 53061 68279 39959 99828 43873 54361 34840 65661

81120 02032 00511 49693 13944 43485 96554 67370 89929 37058
83313 86885 77603 99905 67801 16037 05035 59072 14711 28770
61901 11618 05640 57382 17129 27300 39469 88273 78285 75674
48600 49333 08549 13357 20295 97048 34268 90439 94640 81252
13761 14261 69981 63198 89650 51410 86984 50976 29578 07837
52802 26135 78024 85145 03902 79693 64224 14814 83548 11771
76187 22311 17969 09815 79001 97459 68200 15136 33953 46210
20415 08065 65223 72815 24757 81335 41357 84464 30738 13822
12253 88742 68616 89446 31167 40783 58709 39341 64124 76403
65304 24971 23827 66474 65137 34920 02736 51804 53822 99728
14251 63868 54787 54540 43003 22123 58787 76961 18769 23026
08329 08135 54504 000 000

17453/18353/19253 kHz, 1500/1520/1540 UTC

17453/18353/19253 kHz, 04-08/07-08, 1500/1520/1540 UTC

432 432 432 1 6473 105 6473 105
25004 26108 83536 11220 47694 80505 78123 09567 14005 62902
81697 41138 07437 35993 87058 59004 68238 67049 17031 15312
70869 07691 29117 19827 33715 35627 42196 58878 01578 05974
41820 65129 10438 76881 51820 15946 49962 55273 74813 40495
81955 47070 01150 82805 44537 22745 36910 86266 21039 37385
30065 72283 16222 88578 18777 70425 78367 72590 52064 28936
21712 98095 53826 35227 10728 50644 88738 16795 32375 39749
26660 29068 52410 67478 71856 42084 93287 88013 82766 72202
34322 67685 85737 59241 14780 38892 09352 92485 93597 32841
03227 39332 24427 13559 34954 34554 10787 94826 27224 15968
97708 40846 89003 79475 81978 000 000

17453/18353/19253 kHz, 18-08/21-08, 1500/1520/1540 UTC

432 432 432 1 741 80 741 80
56621 72897 48454 84508 33458 62626 93513 05934 89394 34304
41068 77986 48014 70539 44926 51670 76112 43362 58257 54047
00064 80929 32257 58822 42860 06345 24518 01512 52276 82220
89903 96899 23050 83692 40302 94461 89521 66058 99262 66176
08375 90292 19385 15465 83453 73501 51554 58559 16018 26954
69486 19160 99791 87742 42698 02794 00644 70663 70617 18577
54998 80702 71783 22628 50062 21541 82017 61190 48416 08199
69566 24052 82192 06505 33729 65306 72184 41247 31664 18082
000 000

E11a

Since a few months we regularly see that E11 doesn't repeat messages but instead transmits a different one. Why, I was asked? Of course, I don't know the answer either, but I wonder if it really is a different message. Since the number of groups is always the same in both messages, it could also be that the key changed after the first transmission, causing the message to look different in the second transmission.

16530 kHz, 03-08/05-08, 0315 UTC

252/33
40870 36928 32003 30899 38399 98543 72506 03154 38022 94247
89723 09274 31131 31888 09918 13784 32956 43712 98856 99614
06039 98324 41953 53699 81005 76360 94859 08687 46864 22846
40634 19991 06731

15825 kHz, 03-08/05-08, 0715 UTC

751/34 Attention
62212 35409 09409 73384 63905 70260 11231 80185 48134 79071
43924 38938 15887 24514 47392 10166 28685 02270 40015 58747
06967 82211 61516 13842 92005 35446 54388 47466 50838 93999
01775 18036 81859 78947
Attention (message repeated) out

11116 kHz, 03-08/05-08, 0900 UTC

538/32 Attention

26292 67820 07187 89994 78606 60501 34353 44924 17266 36872
49261 14326 68119 35586 54866 68838 33022 96467 65918 46263
20320 63369 65504 12414 58651 82521 01238 55684 91418 98186
60633 36657

Attention (message repeated) Out

7600 kHz, 03-08/06-08, 1900 UTC

644/38 Attention

76781 21209 35105 99763 16796 19075 39005 99630 50696 56595
60864 30156 95060 05752 57509 34631 38545 42447 30756 34113
82125 99116 00223 88551 51059 34725 31349 20440 95430 98749
93318 27274 69710 88396 12127 50231 44064 35505

Attention (message repeated) Out

10508 kHz, 04-08/07-08, 0715 UTC

637/31 Attention

11384 86996 27035 96952 40945 95538 71859 30883 49686 81783
18603 38902 94503 46187 57553 23668 03477 19305 38885 10156
80838 70520 49978 11952 95492 18540 44273 10838 06514 23833
93452

Attention (message repeated) Out

5231 kHz, 04-08, 1605 UTC. Not repeated

231/31 Attention

68646 84296 28171 32865 68404 24326 72835 63930 06437 77171
39471 78770 15100 42617 94610 53144 76148 26086 47833 20400
07410 76259 46260 22659 11068 56048 82114 44773 73638 13200
58572

Attention (message repeated) Out

14575 kHz, 04-08/06-08, 1645 UTC

337/35 Attention

94377 01704 60457 95754 40606 43661 63661 64601 52189 17402
98669 93180 57157 85859 45119 21762 52920 84816 66622 49543
44606 40702 79199 72631 29336 80768 81733 59717 05370 32389
42526 42129 30600 66030 30735

Attention (message repeated) Out

4783 kHz, 05-08/08-08, 1610 UTC

390/32 Attention

13943 23524 92176 40599 63542 77434 50199 87904 27969 84529
19175 02668 86268 91561 41128 54396 87632 64358 43323 50551
65925 46713 71510 10221 66103 68113 42424 24844 73522 22272
68510 78492

Attention (message repeated) Out

7863 kHz, 05-08/07-08, 1715 UTC

972/38 Attention

83520 77753 29281 01318 79649 10888 34001 27750 30436 95323
02391 07083 92721 89114 24182 56151 21115 49489 32935 85509
69948 14903 90274 67651 39255 54309 76670 26675 44395 89273
02018 68875 08881 88610 42888 10365 66422 62910

Attention (message repeated) Out

7984 kHz, 06-08/07-08, 0720 UTC

439/35 Attention

94299 63828 87721 41536 63763 30241 22983 38271 52820 50051
78920 51257 43285 31855 45528 79744 34807 39399 67913 62902
20654 07491 64078 01174 09683 66186 52417 05199 49707 56963
10632 74640 92700 34939 55308

Attention (message repeated) Out

12229 kHz, 07-08, 1815 UTC

925/39 Attention

76591 34842 82433 04550 18006 59116 78916 35774 57697 87279
48619 10515 07195 69885 10477 76037 14938 04407 10883 77274
05855 63460 08778 36360 23647 72955 68594 42466 88669 12326
74330 06840 01406 31796 42223 51947 53536 73682 71744

Attention (message repeated) Out

5231 kHz, 09-08, 1605 UTC. New message

232/31 Attention

70050 50154 35184 30494 29606 71335 34163 38383 33742 31181
05439 63110 39931 61688 07410 69702 86846 83974 23647 15672
30581 29757 20194 98557 36455 13691 00673 61634 90144 92507
77620

Attention (message repeated) Out

9339 kHz, 10-08/12-08, 0645 UTC

413/35 Attention

50483 12187 75448 62445 01210 27770 54621 12714 75885 33591
27989 86862 01108 06868 96652 98086 85022 86754 08369 18646
12276 11345 45681 08281 80394 06418 07410 65405 77241 02149
55411 46554 53881 86423 98672

Attention (message repeated) Out

11092 kHz, 11-08/13-08, 0645 UTC

515/37 Attention

99544 47576 57460 42603 09488 97647 97093 08232 53890 64207
32637 27190 94781 95484 32318 48456 26553 21826 82347 08153
72859 35572 25982 56783 53504 84247 57256 00460 18550 56584
13138 56045 24689 70887 93649 67111 50419

Attention (message repeated) Out

8680 kHz, 11-08/14-08, 0700 UTC

573/35 Attention

15298 33352 63278 38731 39221 55188 79097 00984 97108 18585
49140 89914 82756 48284 51461 58920 95554 16271 40426 92891
90941 95118 89573 24567 16768 37734 15099 29004 63663 63444
93924 08852 30981 03404 37758

Attention (message repeated) Out

20640 kHz, 11-08/13-08, 0745 UTC

225/39 Attention

47186 86927 26432 26200 65336 32401 28605 71098 91478 93156
37120 50544 02690 49090 11122 05822 15704 65405 44347 75112
32937 15335 00703 70359 77221 87544 68678 42846 07832 32034
09080 73665 73564 11996 20559 73309 07502 42194 79054

Attention (message repeated) Out

12153 kHz, 11-08/14-08, 1000 UTC

305/26 Attention

49695 58135 61910 07076 51346 95126 43322 41838 90556 01902
33842 92898 78441 95373 46646 11188 31276 97925 68245 71431
50222 63371 08285 41518 43950 59551

Attention (message repeated) Out

8274 kHz, 11-08/12-08, 1205 UTC

464/37 Attention

11992 44842 42233 93634 49462 31157 90257 65828 05141 74647
88246 82814 36283 33553 50271 15346 43877 52452 54662 86289
34715 48596 06844 15047 41331 83659 77280 86897 75698 41702
77401 29641 41242 01208 22634 12523 68848

Attention (message repeated) Out

9150 kHz, 14-08/16-08, 0600 UTC

354/37 Attention

96234 02168 14569 65659 68238 01782 35506 44027 44222 79065
76764 75751 80293 03572 42021 73268 72288 21590 83329 92146
25349 29581 14988 93292 34850 63019 78088 97984 12427 83690
50677 10317 73235 29916 68729 30667 41240

Attention (message repeated) Out

9610 kHz, 17-08, 0745 UTC

10356 kHz, 20-08, 1530 UTC

266/33 Attention

20978 35712 02243 92973 61656 44021 22548 21816 53225 31142
14780 27946 79049 65072 50602 59520 12257 59492 78899 49121
33829 84467 71431 67082 22978 92291 19182 25259 67576 04785
35663 61080 35470

Attention (message repeated) Out

5737 kHz, 17-08/20-08, 1300 UTC

312/34 Attention

29843 63629 99831 13909 33429 40165 03914 64700 85014 88093
23461 57819 34541 21631 66070 63834 34058 87329 88624 51089
16650 82197 83853 50010 34539 81946 44217 02276 42367 31791
42589 08579 37311 68336

Attention (message repeated) Out

14410 kHz, 17-08, 1745 UTC. Not repeated

246/36 Attention

23617 26882 89735 23813 30855 94155 02635 43750 23325 71233
75660 64986 28292 60037 88813 83303 08084 69415 01400 79164
65912 13483 16406 56836 67132 61001 30711 69723 94719 33669
97921 68307 79914 14287 20240 28444

Attention (message repeated) Out

17378 kHz, 18-08/19-08, 0930 UTC

131/36 Attention

77041 46762 37990 88082 03511 12117 34350 82556 15966 26521
92167 42169 33742 03319 29596 99390 58306 39283 25443 40943
70731 17459 06355 27003 57739 81138 93283 16807 20610 39912
36290 98812 77960 66901 25082 35854

Attention (message repeated) Out

266/33 Attention

20978 35712 02243 92973 61656 44021 22548 21816 53225 31142
14780 27946 79049 65072 50602 59520 12257 59492 78899 49121
33829 84467 71431 67082 22978 92291 19182 25259 67576 04785
35663 61080 35470

Attention (message repeated) Out

7377 kHz, 22-08/23-08, 0700 UTC

492/32 Attention

29380 55478 03567 31786 84861 35396 48000 98752 39539 06164
07419 45625 44091 01909 62568 91810 10797 82502 32637 38660
00812 06462 59683 91373 29341 32598 97812 67040 95952 46958
70182 45875

Attention (message repeated) out

5082 kHz, 22-08/23-08, 1645 UTC

360/33 Attention

05580 57681 43016 94075 18893 95127 63224 74385 83183 50199
47863 90268 18607 77085 51088 19849 95357 78911 93968 25113
40075 91631 48408 61759 63786 70458 40836 26728 68335 90680
23719 01283 39487

Attention (message repeated) Out

14410 kHz, 23-08, 1745 UTC. New message

247/36 Attention

21326 98715 05889 65566 69466 86335 97185 03810 47639 61987
05264 30704 36331 80809 14808 90998 56971 70305 95105 92957
59266 66651 53674 33298 66477 63733 64993 63376 31399 17560
88725 96531 63460 70353 68940 92673

Attention (message repeated) Out

21906 kHz, 24-08, 0600 UTC. Not repeated

944/35 Attention

56760 71111 83525 95583 79200 22879 20935 07043 36393 33851
41866 81580 85786 34564 11949 23505 07878 16273 28403 86937
98679 39075 67668 71358 92725 34883 74883 36076 89051 89365
53733 97208 74933 63398 97033

Attention (message repeated) Out

16335 kHz, 24-08, 0830 UTC. Not repeated

183/35 Attention

86810 04429 46878 33918 30918 11790 39367 59737 85897 44553
32270 55659 69514 28325 00325 95062 82805 63545 66454 59367
96027 39305 72005 33388 62970 74299 08207 23585 86053 67689
82669 83418 69277 57681 71642

Attention (message repeated) Out

12815 kHz, 24-08/26-08, 0845 UTC

719/32 Attention

67880 47171 24954 79242 41098 98360 71305 49747 16390 65764
63572 51654 42993 44918 36510 85905 17764 55382 97010 53067
40359 69675 44271 26105 20943 98862 53665 51881 46472 82552
53598 80566

Attention (message repeated) Out

10210 kHz, 24-08, 1045 UTC. Not repeated

692/35 Attention

11719 58734 60534 54022 62553 79038 22532 43361 92293 19845
46436 99208 18318 41036 52744 77102 00569 66232 66749 48216
83466 10928 82780 19043 15793 00490 35492 04150 63187 01096
40347 74581 29938 39964 26201

Attention (message repeated) Out

19184 kHz, 25-08/27-08, 0845 UTC

152/35 Attention

05083 95309 95705 35223 56196 36948 48363 31393 62507 92366
13728 13520 70036 29710 27537 81830 22994 14106 39703 32356
53341 06097 87146 34028 59861 49690 69729 57169 25193 55481
07027 30723 08907 32812 17946

Attention (message repeated) Out

12984 kHz, 25-08/29-08, 1430 UTC

918/31 Attention

34666 74268 17128 88623 42932 59695 89195 85382 90543 18955
54800 40992 41392 18355 82083 46344 42178 87691 99899 54227
94221 87871 02108 39707 19418 05266 63182 87827 93477 18242
82657

Attention (message repeated) Out

21906 kHz, 26-08, 0600 UTC. New message

949/35 Attention

68765 98985 04965 61810 75197 90999 42725 55190 77499 16744
22149 44867 68422 61107 79148 24380 66654 67969 87889 06201
26887 64012 64674 06529 34629 66997 38696 25050 07265 15777
75655 70994 78402 71943 26709

Attention (message repeated) Out

15720 kHz, 26-08, 0745 UTC

15720 kHz, 28-08, 1020 UTC

349/31 Attention

88465 21523 18323 10446 44632 16710 75815 97063 46727 91109
83933 97161 46066 89637 44233 66568 27857 52999 35804 14328
28306 34128 73975 01041 28323 55406 60564 87955 51761 41481
49221

Attention (message repeated) Out

6923 kHz, 26-08/27-08, 0930 UTC

278/36 Attention

79540 75247 21488 41420 97920 79992 42307 37387 69518 46657
22103 49448 24918 31350 85802 53335 98460 69073 50852 32014
51232 61399 83128 28283 15499 50494 83176 07647 94716 79627
88237 27726 92340 50826 46858 10153

Attention (message repeated) Out

10210 kHz, 26-08, 1045 UTC. New message. Partly resent

697/35 Attention

03248 12323 73499 33852 21817 64795 63189 48019 31201 38705
96582 13437 96553 24925 96167 52272 43842 14490 85493 56608
83971 11888 82421 55427 91842 52240 11191 67461 25602 81406
36917 82456 68727 37777 02657

Attention (message repeated) Out

697/35 Attention

03248 12323 73499 33852 21817 64795 63189 48019 31201 38705
96582 13437 96553 24925 96167 52272 43842 14490 85493 5 off

5409 kHz, 27-08/30-08, 2000 UTC

527/39 Attention

75134 74843 19212 38363 49936 44609 69007 40420 23742 96746
74895 67142 65059 50296 77973 17069 23880 35436 50677 57599
16900 16066 67827 76422 22203 58437 66143 71210 45091 71084
41939 43969 62165 74077 83596 03071 76659 90624 29694

Attention (message repeated) Out

16335 kHz, 28-08, 0830 UTC. New message

189/35 Attention

93185 66817 82424 30741 91733 38868 26061 77284 57143 56131
45476 49603 65098 08034 59426 15422 48920 98689 16870 76081
64223 55335 40523 57475 95996 52042 08192 38927 52079 15617
14639 13145 10585 25230 19169

Attention (message repeated) Out

9610 kHz, 28-08/30-08, 1910 UTC

617/34 Attention

27163 51033 45333 73613 16432 65949 32479 14233 29735 81253
86847 25263 12067 30095 78487 64185 70936 32254 39729 85307
77707 54324 98362 88638 17905 06440 06266 07808 30814 75066
31640 78943 66116 81304

Attention (message repeated) Out

30-08: interrupted by non-related 5 and 10-counts in Russian throughout and after the transmission

11616/9322 kHz, 03-08/04-08, 0400/0420 UTC

480 123 57
 15512 84037 23733 06232 58608 35574 17459 33971 85979 88316
 11675 12928 97014 09008 64088 26729 59357 60738 84549 21576
 38755 20963 93860 94123 31750 13670 78381 33277 68377 91649
 95125 14415 77078 29799 57034 69508 29007 15402 33114 81543
 03914 46311 83116 76704 44806 72988 11470 12746 93560 45320
 45125 86987 24682 50163 65019 12426 19396
 123 57 00000

11616/9322 kHz, 05-08/06-08, 0400/0420 UTC

480 567 24
 79897 74967 45917 49105 60873 09288 52447 83436 14818 91156
 14564 53312 24060 48193 73921 90814 06484 60491 19383 38648
 48656 90153 96726 72382
 567 24

480 195 23
 48039 73419 36997 01734 90123 66392 43789 22357 49126 32661
 45277 38457 59784 10541 34120 74649 73759 21635 82262 27602
 64085 86421 33707
 195 23 00000

11616/9322 kHz, 07-08, 0400/0420 UTC

480 480 480 00000

11616/9322 kHz, 10-08/11-08, 0400/0420 UTC

480 279 51
 04018 62141 41347 48966 78754 95748 53424 96600 52756 07220
 34276 33414 51178 55927 15608 90513 26135 73061 37291 05190
 40534 63542 11146 53103 68753 66997 34194 60581 75625 24973
 65730 08508 43413 69816 19860 18726 55645 49159 23448 19624
 86797 83337 66609 32999 40594 02379 55834 11484 41499 07925
 75419
 279 51 00000

11616/9322 kHz, 12-08/13-08, 0400/0420 UTC

480 136 27
 20536 43447 69191 60432 87071 86612 11976 81685 92770 26225
 35456 75291 87440 60811 54703 03798 94734 38203 31705 66272
 30676 16907 25965 70076 56264 97887 97160
 136 27

480 197 23
 01232 87602 29620 92222 01241 18460 50771 96254 32609 30461
 82193 88481 59444 43832 98432 83690 41012 56530 72455 37618
 85460 31642 06388
 197 23 00000

11616/9322 kHz, 14-08, 0400/0420 UTC

480 480 480 00000

11616/9322 kHz, 17-08/18-08, 0400/0420 UTC

480 325 60
 70050 07783 14944 35838 53781 75924 99077 53630 28255 75368
 29236 56901 45990 65754 63842 13924 04080 86233 42086 12809
 78901 72773 89191 81597 95302 47824 83496 17427 41189 37035
 58793 91969 63474 92712 40358 25328 06300 28701 38105 45575
 77483 96375 45318 76124 54132 56441 16371 18126 63347 26213
 21902 20056 98965 07080 04861 51720 60274 21823 85875 24822
 325 60 00000

11616/9322 kHz, 19-08/20-08, 0400/0420 UTC

480 691 29
20311 10764 93683 50943 22438 90400 30144 90931 42363 47648
93059 31784 92350 97998 05772 94578 74646 11939 91979 29127
69927 25930 74386 25980 91074 80045 06657 94935 69478
691 23

480 753 21
58603 05944 24585 37457 75084 29183 52649 75697 48763 74306
83708 67099 30733 31145 13676 99995 81489 71282 21042 44735
17302
753 21 00000

11616/9322 kHz, 21-08, 0400/0420 UTC

480 480 480 00000

11616/9322 kHz, 24-08/25-08, 0400/0420 UTC

480 162 53
17443 89797 68604 04069 51388 98820 83287 84264 15289 70780
99183 28746 46997 06995 12194 18602 92497 49565 66407 63214
28859 44570 09509 07140 07665 38889 24623 81719 89533 36841
41318 69978 08072 91366 72461 73545 14627 39407 90764 24277
16038 13615 58933 85021 00969 95850 71541 22764 58773 92308
44294 95344 86514
162 53 00000

11616/9322 kHz, 26-08/27-08, 0400/0420 UTC

480 397 24
06518 82338 37663 18365 82137 26648 24151 44932 32785 04784
18512 31162 16035 81444 03406 61127 81138 22310 79267 72234
66267 48959 82684 65854
397 24

480 261 34
63323 13688 97677 18018 44566 40916 62597 05174 86393 46603
05353 48250 36856 17183 63939 41404 62606 40287 23368 18940
56436 61185 91609 03792 23421 32295 40874 82664 00380 29184
81404 43770 88310 31527
261 34 00000

11616/9322 kHz, 28-08, 0400/0420 UTC

480 480 480 00000

11616/9322 kHz, 31-08, 0400/0420 UTC

480 539 60
71236 64028 61514 64277 18140 29715 33975 87620 44657 34264
31293 20814 12294 24053 54576 90466 34438 42753 80846 50016
94954 68064 65472 85657 46569 47378 39234 95412 74973 62054
48457 83533 39588 74996 11642 37426 26928 41220 91043 79279
77502 86089 02626 09588 72181 80926 12832 84760 88979 70662
95607 95994 66183 33231 48124 41610 32768 75390 88615 10024
539 60 00000

S11a

6814 kHz, 10-08/14-08, 0915 UTC

487/33 Vnimanıye
59341 27390 46131 66258 37431 34182 09809 15047 95361 01522
71466 07527 93683 42724 69363 84457 23932 40108 57783 52937
10827 33450 22376 99276 87131 13325 68912 20841 43284 87597
37110 53577 42106
Vnimanıye (message repeated) Konets

5149 kHz, 15-08/16-08, 0830 UTC

372/33 Vnimanije

97255 08885 20305 65843 99574 23285 04111 16269 90946 74949
85612 65435 46550 44571 30976 53247 97011 13540 98368 04817
03930 50605 76504 73362 17326 58584 44115 44029 06959 38952
78797 66528 38970

Vnimanije (message repeated) Konets

9968 kHz, 18-08/20-08, 0445 UTC

797/40 Vnimanije

84995 22648 57586 35096 28478 62490 75578 75749 83550 78027
80276 44886 28041 82068 59521 96710 41480 19577 91326 79218
18600 34265 64301 50521 39212 42123 83547 53825 18401 22662
74498 92499 56385 04978 79425 74633 16960 68964 57146 48975

Vnimanije (message repeated) Konets

16357 kHz, 24-08, 0510 UTC. Unreadable

16357 kHz, 26-08, 0510 UTC

654/38 Vnimanije

93376 98092 87664 73876 51127 72790 45476 25771 11632 99173
00917 78367 88864 17924 61959 16513 52030 74155 62050 05079
89077 22599 18379 31926 67299 11501 32070 02769 48892 34070
13028 47307 97209 13909 50873 03186 42494 36227

Vnimanije (message repeated) Out

9339 kHz, 24-08/27-08, 0700 UTC

470/33 Vnimanije

55868 50905 82717 27989 08819 93606 98582 19506 30476 49490
60150 83680 91153 64388 74539 72176 32676 29159 65405 52858
72283 43848 14847 51937 16308 29183 00732 42975 64439 25634
35570 77450 60081

Vnimanije (message repeated) Konets

9448 kHz, 25-08/28-08, 1400 UTC

425/32 Vnimanije

35884 97208 35642 31698 09025 57244 83469 20936 86515 81483
36896 52022 99093 91561 49148 85124 17879 43275 47591 55823
72111 37403 80300 35852 79888 05843 26802 21733 70501 19175
78247 86505

Vnimanije (message repeated) Konets

18773 kHz, 26-08/28-08, 0735 UTC

382/37 Vnimanije

98932 17130 98516 78752 87691 23135 34994 32572 93589 71958
14646 55675 01482 78622 47348 47415 40901 91478 86936 59878
42493 28996 78097 00864 08160 89951 01144 75138 39316 11562
42117 29004 69018 70884 09165 59262 22639

Vnimanije (message repeated) Konets

12457 kHz, 26-08, 1850 UTC. Began to resent the message after it was finished but was cut off during the callup

12457 kHz, 29-08, 1850 UTC

285/34 Vnimanije

06955 05924 05395 87365 01133 47440 19689 06213 69756 95208
59843 10361 95502 36573 41536 14616 74905 18120 71959 48344
33222 36152 09585 88660 98789 15793 04650 19194 79332 05436
33247 20980 24815 27816

Vnimanije (message repeated) Konets

13408/12208 kHz, 02-08, 0700/0720 UTC

425 425 425 000

13408/12208/11508 kHz, 09-08, 0700/0720/0740 UTC

425 425 425 1 2296 116 2296 116

49327 49697 45639 42900 36616 58707 10348 37921 01586 45651
12053 23030 11460 14417 41961 59495 70050 97462 88997 45166
69482 39887 86051 09067 08399 65680 18626 34175 64198 74517
15350 30527 76314 27900 60727 30516 50866 58040 82905 64712
41573 14310 00447 53144 03518 79452 93681 40403 24358 63068
81314 11956 81698 09984 78656 57113 25879 97491 15434 68205
76780 99181 96852 35890 29848 91521 51728 07857 50150 31276
45893 18406 43890 08912 35974 82374 77484 94860 11894 31495
75209 58599 06097 27975 26921 88575 73081 05565 74944 14945
46206 98997 44225 65799 00340 61725 10823 59725 69364 36852
06917 66390 97457 89802 59808 50098 36170 47556 01855 12359
76667 39214 89295 02793 57275 78387 000 000

13408/12208/11508 kHz, 16-08, 0700/0720/0740 UTC

425 425 425 1 1824 114 1824 114

72528 51214 93332 53205 03823 83336 27836 80537 75804 33117
68211 57443 52273 42570 99522 87217 98302 39948 00564 88246
59594 08568 98404 26663 19033 90124 60644 31153 81048 75700
77011 76749 17434 13128 03568 61486 02162 42733 47615 61720
69596 71773 82518 91389 04375 82334 38957 04263 29895 76184
81107 52578 07605 53837 28984 60663 56250 04603 76092 62519
29238 34597 68696 25572 75604 32610 57087 32944 35237 81756
51559 44841 63954 32128 43530 44266 17991 68205 37525 91747
35183 94622 39860 31294 90160 71103 85161 52535 52735 41104
29308 53170 20819 50112 68370 23961 17584 49916 84652 98918
67101 53260 68360 68466 29465 25839 19690 02348 89799 23199
41933 30985 62789 64285 000 000

13408/12208/11508 kHz, 23-08, 0700/0720/0740 UTC

425 425 425 1 5572 73 5572 73

87683 04721 40108 45147 82450 73580 93403 59608 66142 80777
11350 34322 09375 67558 74870 82780 17521 25577 90822 29571
15930 77220 81347 63943 30561 05277 49267 39096 80229 95534
56671 90688 09706 18937 65235 93763 55444 66851 50972 14913
89047 71604 07006 54613 82149 16038 78801 99922 75172 04846
04021 64684 28527 48569 80534 93481 33112 41302 07910 93770
35382 97390 60854 33977 15307 99373 86803 37895 52302 53569
96856 28331 86843 000 000

13408/12208/11508 kHz, 30-08, 0700/0720/0740 UTC

425 425 425 1 3149 121 3149 121

99799 67773 50795 64790 32789 90129 19320 16829 44022 84729
53047 23152 41782 95313 32567 86523 00948 55049 79282 34020
05758 81970 65664 33591 10428 29010 78460 23585 29751 49475
71669 44936 54266 81961 61316 38832 44385 42565 18434 16387
29363 55577 85786 90190 80479 61087 73571 13532 21470 99087
43047 75458 58305 26315 07480 87711 07812 94259 96686 68718
32188 86181 86522 14411 05684 36517 41064 52669 72325 92302
31748 26048 29417 09245 11238 92203 01478 52771 11969 19943
25321 81159 49146 01221 47865 25957 40069 84756 66598 30715
45287 65161 52522 43058 59856 81026 86937 47584 86206 65711
11262 04385 16067 96953 86018 02478 05180 54610 61924 04668
09873 32115 54251 69599 31726 50791 09520 85482 02402 88187
17864 000 000

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

15890 kHz, 19-07, 0000 UTC. New Star Broadcasting. Station 3

Unit IDs: 3037, 5430, 7670

Group Counts: 33, 30, 32

9106 5427 5655 2691 0784 0957 3424 6747 5326 5137
3272 2682 8834 2798 6620 6345 2177 0093 9263 5316
4736 2701 8627 4295 4049 0143 3162 7519 4295 7783
1604 5191 7281

6846 8264 8096 9825 2240 1149 5781 7173 5186 7922
7714 9128 8555 0627 8234 7188 0125 9325 6137 2754
5752 6314 0090 0255 2480 9591 3693 5769 8944 1685

6682 2641 6606 1747 3805 3826 7153 6818 0075 7765
1935 2764 5149 8926 2067 1794 1214 0367 6273 1892
3665 6066 7922 9471 0152 9642 6838 0620 4499 0872
3667 1720

18040 kHz, 19-07, 0030 UTC. New Star Broadcasting. Station 4

Unit IDs: 2868, 6146, 7791

Group Counts: 35, 31, 35

3539 7672 1594 8049 4592 8105 8726 9851 4061 0357
1655 3622 9553 3906 8751 7396 3424 7219 7507 2688
6660 7618 7716 4981 9234 8300 7277 6135 7911 4434
8373 3635 2752 4572 3001

3458 5172 4481 5543 7225 5414 9490 4194 5915 5980
6248 2481 8451 3977 8544 5305 4160 8168 0873 0072
4713 9248 5048 3814 0975 0133 9646 8897 2485 5838
6905

7683 2796 0195 6222 6806 9168 7460 2128 9768 6712
2093 5904 0963 4182 8488 6643 3575 9715 3821 3433
9184 8890 2645 6928 3545 1858 1836 1717 8716 9157
9662 4325 3650 2783 0521

15890 kHz, 27-07, 0030 UTC. New Star Broadcasting. Station 3

Unit IDs: 1250, 4695, 6835

Group Counts: 35, 35, 32

0231 4626 3947 5971 6214 9424 7827 0113 3369 9604
3700 8396 4426 0662 3757 6688 4171 2861 5961 7549
4107 9910 1838 3246 2819 7993 5040 4507 4933 7409
4879 8970 4672 0471 5157

6049 2379 3102 1826 9932 5886 6823 4808 6689 5618
5891 4610 1115 7705 2579 1527 3313 9089 5518 1807
2280 7126 5168 4202 6181 4842 0325 1422 3798 0648
9051 6333 6372 0570 5785

9742 5321 5637 1453 1162 9737 3561 4327 6293 0833
1271 8073 7297 6802 3221 7985 0274 9752 1819 4371
1963 9909 1692 4890 5403 8950 3076 5337 5548 7520
0327 0154

20025 kHz, 27-07, 0100 UTC. New Star Broadcasting. Station 4

Unit IDs: 3961, 4615, 8460

Group Counts: 31, 30, 34

6384 9630 5329 9755 6431 2917 9189 0435 8984 3631
5581 4355 1822 6723 9997 6574 2587 8391 6743 1873
7806 7317 7634 0445 2909 5260 1277 7299 1600 9112
7317

3396 9673 1637 7361 4028 8265 4728 9584 0416 1731
9921 0531 5652 1924 9490 3127 0464 3786 1128 3737
9679 5054 4020 9160 6173 5996 1954 3077 3170 4440

6415 7968 8747 6794 3857 5030 4830 7040 7896 1923
1521 3807 8572 2044 5608 6622 2997 7064 5708 5712
4374 4638 7325 0115 4530 2321 2363 9466 8964 6108
2452 9554 3130 9780

V28 - 앵무새 Aengmusae (Parrot)

Thanks to HK, WLTZ and Pille for the V28 logs.

3042 kHz, 06-08, 0132 UTC	Parrot
3042 kHz, 11-08, 2100 UTC	Parrot. Female and male operators
5486 kHz, 13-08, 2102 UTC	Parrot
5484 kHz, 16-08, 2101 UTC	Parrot
5073 kHz, 17-08, 2102 UTC	Parrot. Intermittent, broken, sporadic
5485 kHz, 17-08, 2102 UTC	Parrot
3042 kHz, 17-08, 2101 UTC	Parrot. Male operator
5486 kHz, 17-08, 2106 UTC	Parrot. Female operator
5485.5 kHz, 18-08, 0908 UTC	Parrot
3043 kHz, 20-08, 2113 UTC	Parrot
5486 kHz, 20-08, 2118 UTC	Parrot
5485 kHz, 21-08, 0903 UTC	Parrot, instable signal:5485~5487 kHz. Female operator
5485 kHz, 21-08, 0914 UTC	Parrot. Male operator. For the most part, there was no modulation.
5486.5 kHz, 22-08, 2100 UTC	Parrot
3042 kHz, 22-08, 2100 UTC	Parrot
5559 kHz, 25-08, 2103 UTC	Parrot
3041 kHz, 25-08, 2106 UTC	Parrot
5561 kHz, 26-08, 2100 UTC	Parrot
3041 kHz, 26-08, 2103 UTC	Parrot
5561 kHz, 26-08, 2107 UTC	Parrot. Drifting freq: 5561-5563.5 kHz. Long transmission. Ended at 2141z
5561 kHz, 28-08, 2100 UTC	Parrot. Drifting signal
5563 kHz, 27-08, 2058 UTC	Parrot
3042 kHz, 27-08, 2102 UTC	Parrot
5562.75 kHz, 27-08, 2126 UTC	Parrot. Drifting transmitter. Long transmission. Ended at 2158z
5561 kHz, 28-08, 2100 UTC	Parrot
3041 kHz, 28-08, 2102 UTC	Parrot
5488.5 kHz, 29-08, 2058 UTC	Parrot



MORSE STATIONS

MX

"V" frequencies for August 2026:

Fast: 4031.0 (n), 5590.0 (d)

Slow: 5007.0 (n), 7577.5 (d)

4031.0 kHz, 11-08, 1633 UTC	V
5007.0 kHz, 11-08, 1633 UTC	V
5154.1 kHz, 11-08, 1615 UTC	A: Astrakhan
5154.2 kHz, 11-08, 1623 UTC	F: Vladivostok
5156.8 kHz, 11-08, 1626 kHz	L: St Petersburg
7508.7 kHz, 11-08, 0910 UTC	D: Sevastopol
7508.9 kHz, 11-08, 0910 UTC	S: Sevoromorsk
8494.6 kHz, 11-08, 0910 UTC	S: Sevoromorsk (off freq, normally on .9)
8495.1 kHz, 11-08, 1615 UTC	A: Astrakhan
8495.3 kHz, 11-08, 1620 UTC	K: Petropavlovsk Kamchatskiy
8495.4 kHz, 11-08, 1648 UTC	M: Magadan
8497.6 kHz, 11-08, 1626 kHz	L: St Petersburg
10870.7 kHz, 11-08, 0910 UTC	D: Sevastopol
10870.8 kHz, 11-08, 0910 UTC	P: Kalinigrad
10870.9 kHz, 11-08, 0910 UTC	S: Sevoromorsk
10871.0 kHz, 11-08, 1628 UTC	C: Moscow
10871.1 kHz, 11-08, 1622 UTC	A: Astrakhan
10871.2 kHz, 11-08, 1615 UTC	F: Vladobostok
13527.7 kHz, 11-08, 1615 UTC	D: Sevastopol
13527.8 kHz, 11-08, 0910 UTC	P: Kalinigrad
13527.9 kHz, 11-08, 0910 UTC	S: Sevoromorsk
16331.7 kHz, 11-08, 0910 UTC	D: Sevastopol
16331.8 kHz, 11-08, 0910 UTC	005006
16331.8 kHz, 11-08, 1629 UTC	005006
16331.8 kHz, 12-08, 1649 UTC	005006
16331.9 kHz, 11-08, 0910 UTC	S: Sevoromorsk
16331.8 kHz, 17-08, 0600 UTC	005006
20047.7 kHz, 11-08, 0910 UTC	D: Sevastopol
20047.9 kHz, 11-08, 0910 UTC	S: Sevoromorsk

9736 kHz, 01-08, 0715 UTC, CW USB no carrier. No key and group count

475
 62258 13487 11397 89518 99479 19936 95878 39336 98535 14446
 14994 07419 31784 42442 54412 15748 10276 97575 52987 05413
 08568 55053 92304 11454 22186 82684 08058 20721 41123 30773
 61277 44742 05462 70137 97337 **97331** 20721 55492 56224 43946 74572
 54242 92152 71486 14818 50869 91892 79261 57084 32268 83188
 000

6435 kHz, 01-08, 1500 UTC. Different repeat in red

025 827 827 30 30 = =
 24575 37954 08587 53845 78543 07467 90767 46787 54309 66891
 86467 96663 33753 **35753** 87757 29800 47388 56371 56780 56389 56443
 83048 45760 03567 74740 24685 93764 98456 26841 15736 98005
 = = 827 827 30 30 000

4903 kHz, 04-08, 2000 UTC

025 845 845 30 30 = =
 87695 46574 36451 29785 46375 78791 23207 68451 34561 30784
 86740 56471 24432 30789 68792 35491 46758 30785 45657 58321
 96832 34541 20780 57483 26485 67434 59781 22132 38795 57541
 = = 845 845 30 30 000

4903 kHz, 06-08, 1959 UTC

025 638 638 30 30 = =
 37954 16847 07842 39580 39458 84794 27493 03851 84967 19559
 83400 84391 54093 15099 74399 54781 27452 54809 54785 48330
 85497 75498 10395 65793 10503 12085 54789 35771 75489 05489
 = = 638 638 30 30 000

6435 kHz, 08-08, 1501 UTC

025 (R1m21s) silence (2m33s) 025 363 363 30 30 = =
 85734 28675 49897 68121 34275 68573 40891 75639 76812 45308
 75612 12134 39784 56476 20897 67823 34340 67859 47566 48321
 87965 45653 84587 84756 97815 75642 56387 69878 86754 58343
 = = 363 363 30 30 000

4903 kHz, 11-08, 2000 UTC

025 111 111 30 30 = =
 67564 67564 11112 43423 98090 67675 78788 43243 12356 78901
 54324 67564 78907 78435 54342 28306 13342 77543 87889 45231
 43243 56435 89789 90008 65745 34213 64532 67345 98675 34254
 = = 111 111 30 30 000

6435 kHz, 15-08, 1500 UTC

025 341 341 30 30 = =
 13245 97666 35109 85461 26778 08971 14273 46321 75643 09994
 06712 17845 56621 35509 16458 05711 14370 91136 73429 05762
 05645 13288 67343 08642 13579 97531 24680 87541 30097 83219
 = = 341 341 30 30 000

4903 kHz, 20-08, 2000 UTC

025 892 892 30 30 = =
 85764 37564 39807 57681 23156 47689 67452 39781 23215 67849
 86743 34521 78965 67743 76843 46509 80602 76854 56323 49785
 86943 45386 78450 35461 23109 78954 56734 40980 68591 16573
 = = 892 892 30 30 000

5280 kHz, 25-08, 1800 UTC

025 657 657 30 30 = =
 65018 22091 38716 51423 88476 30911 44098 53627 55093 09101
 90198 32141 41525 61542 65171 54236 28910 17625 15267 39091
 17627 87165 09187 87365 27634 33981 38901 37616 91176 27618
 = = 657 637 30 30 000

4903 kHz, 25-08, 2000 UTC

025 908 908 30 30 = =
 10928 20918 30918 40957 10938 60944 97066 50948 35415 22091
 28718 65161 27615 27615 20938 50948 57488 50948 36476 47638
 33094 48737 40984 38737 01981 27618 30981 42561 28716 33091
 = = 908 908 30 30 000

5280 kHz, 27-08, 1800 UTC. Errors in red

025 196 196 30 30 = =
 75632 12256 08944 24365 97856 64512 07853 00809 53535 08864
 53310 68645 13579 08642 24680 97531 **088690** 88690 **551119 551119** 27845
 34346 07089 13245 56780 06734 14364 07864 22437 07674 09965
 = = 196 196 30 30 000

M12

17461/14814/13471 kHz, 2310/2330/2350 UTC

Last logged in February but found again by PY.

17461/14814/13471 kHz, 01-07, 2310/2330/2350 UTC Active. Too weak top copy
17461/14814/13471 kHz, 05-07, 2310/2330/2350 UTC Active. Too weak top copy
17461/14814/13471 kHz, 08-07, 2310/2330/2350 UTC Active. Too weak top copy

17461/14814/13471 kHz, 12-07, 2310/2330/2350 UTC

487 487 487 1 7228 98 7228 98
 37371 82621 89043 12140 85784 10684 99723 43050 29733 22965
 03546 48016 52512 63094 44001 62481 57543 25496 69136 94510
 42844 21312 09548 36980 76020 20026 04375 17495 46677 27564
 35268 06593 91151 06209 17194 27099 67645 34505 29846 33711
 99699 52854 55426 78666 00813 23615 08425 24702 77024 29461
 21406 96675 39464 18619 04706 85576 08444 20798 54396 13080
 25860 99254 64108 72748 17358 84943 77689 46736 29816 49043
 90476 83477 1_041 48793 96882 24620 60976 87865 62630 61041
 00278 00299 14726 69017 03971 61652 83076 79688 11279 11009
 24418 78098 26394 19557 83576 61171 97287 98397 000 000

17461/14814/13471 kHz, 15-07, 2310/2330/2350 UTC Active. Too weak top copy

17461/14814/13471 kHz, 19-07, 2310/2330/2350 UTC

487 487 487 1 5652 64 5652 64
 20171 44192 53903 74617 33724 00167 66434 71085 70870 89791
 94390 12486 99336 72243 64294 69422 61879 29644 15020 62318
 84373 06572 35312 68273 15835 96536 67964 94962 70275 56742
 50973 94557 96070 21270 39648 12642 03490 59076 24675 13709
 89065 36482 51453 37210 94884 29677 40569 04846 87843 80714
 70167 03648 86927 49719 45326 58351 40420 28588 72664 35430
 35038 94960 41848 57281 000 000

17461/14814/13471 kHz, 22-07, 2310/2330/2350 UTC

487 487 487 1 6668 98 6669 98
 80459 80543 36643 41435 34759 64863 40024 24938 25779 22959
 84359 62346 03708 60367 96165 14296 38562 43676 41616 60544
 09385 51564 23861 98175 02546 47245 40508 47548 01763 93464
 73861 56059 72115 49542 10175 19043 99817 40252 56692 53974

57300 84575 04294 32796 92271 69844 90538 81555 13482 44584
96087 63688 10664 50180 40471 21468 81031 27002 88691 74415
91369 28822 54916 43519 91873 49064 70861 30372 04484 84639
13297 71401 94493 50315 61457 48750 38018 14588 76701 02570
86861 80790 87880 28524 30922 76734 87861 73597 01342 17455
37919 22891 24755 36544 46904 24257 68789 03211 000 000

17461/14814/13471 kHz, 26-07, 2310/2330/2350 UTC Active. Too weak top copy

17461/14814/13471 kHz, 29-07, 2310/2330/2350 UTC

487 487 487 1 3529 115 3529 115
11124 43449 06960 51523 11822 19945 60537 98394 35439 28258
88756 63739 00481 11355 79614 40863 48182 80717 85421 23839
91919 76281 09537 11270 85426 27156 29175 29638 40476 04702
12803 50426 65061 17758 73127 55039 60539 95423 28194 22285
45528 06544 92815 42718 54474 18951 38604 38621 77742 83366
41906 37550 79993 89021 43642 14752 24403 16104 14913 75862
20700 09526 17149 82778 92409 14430 29048 63292 45818 33237
41320 33035 33952 86683 69442 41681 25658 05975 22439 55010
35388 68676 31296 02828 29951 39847 46250 13819 53893 23188
73955 04511 80253 74554 55281 43838 76505 20401 02127 92411
50482 48411 05753 25531 80673 53347 37671 94568 31898 72311
50709 82970 59909 65154 17050 000 000

17461/14814/13471 kHz, 02-08, 2310/2330/2350 UTC

881 881 881 1 3529 115 3529 115
11124 43449 06960 51523 11822 19945 60537 98394 35439 28258
88756 63739 00481 11355 79614 40863 48182 80717 85421 23839
91919 76281 09537 11270 85426 27156 29175 29638 40476 04702
12803 50426 65061 17758 73127 55039 60539 95423 28194 22285
45528 06544 92815 42718 54474 18951 38604 38621 77742 83366
41906 37550 79993 89021 43642 14752 24403 16104 14913 75862
20700 09526 17149 82778 92409 14430 29048 63292 45818 33237
41320 33035 33952 86683 69442 41681 25658 05975 22439 55010
35388 68676 31296 02828 29951 39847 46250 13819 53893 23188
73955 04511 80253 74554 55281 43838 76505 20401 02127 92411
50482 48411 05753 25531 80673 53347 37671 94568 31898 72311
50709 82970 59909 65154 17050 000 000

17461/14814/13471 kHz, 09-08, 2310/2330/2350 UTC

881 881 881 1 1432 219 1432 219
70547 74134 74513 44329 93900 34046 41670 49548 48539 58620
96778 95430 27433 47735 10495 22654 88116 12362 05123 70545
22572 33181 40920 30655 62713 76646 51185 52670 08898 77256
38134 84767 50481 44420 30336 19862 21192 78325 57134 66196
14963 19972 27533 76481 93935 98884 81299 34152 52541 98935
88675 44506 49343 19152 74453 51529 57197 26647 90171 18269
65311 12193 99497 56630 94975 01023 38387 20147 57507 26789
43458 21269 98524 23724 32922 67797 70421 79952 93968 60146
85471 44787 69566 87547 03744 59706 14775 33826 14285 33922
05787 25260 07847 01748 36208 79521 64244 03776 64563 92804
59700 74089 21053 99880 12160 60042 95963 11538 18922 77154
23839 25428 69375 15173 90405 91005 13894 38694 98277 28090
09587 60624 59475 46337 15318 75673 00939 15900 42656 52379
05376 32393 54592 44516 21016 79613 76471 47657 51539 10211
25525 80492 66774 74090 40418 09767 86031 72457 05117 21569
63399 83096 60897 08640 61707 06092 91496 38750 00741 64893
21739 00721 81836 14978 72818 47997 97035 80697 62022 92874
05856 77459 60060 53859 17508 75894 98825 11122 74181 45240
37275 89127 69950 09367 29238 02556 37988 91228 41190 99109
99279 10967 34994 75040 68521 91753 75305 87111 39318 25980
39965 56412 18047 70247 07199 30128 88981 93272 53675 38872
94555 20551 53474 12133 88599 56200 20302 24271 28850 000 000

13409/12195/11526 kHz, 27-07/02-08, 1900/1920/1940 UTC

397 397 397 1 9209 195 9209 195

32137 93234 98959 04978 24641 74465 03655 83541 93868 19914
 53111 63395 57506 36491 93318 58127 52827 83069 26854 50815
 64611 56338 30761 21164 47035 84897 45846 07055 23295 33111
 09292 75027 26038 21975 32914 45222 03968 90352 71605 32491
 48417 80391 78022 17700 75370 54467 85373 43526 25049 81865
 95319 53360 26526 11372 26548 75798 62473 77795 57941 39742
 28618 96599 60245 60756 10622 78083 37356 35530 03576 48095
 54158 62474 11464 94361 02398 84219 78314 13060 45792 92567
 99523 02319 82004 41429 37790 55930 48501 14666 95426 57114
 82748 26171 32410 31862 03873 51816 20145 17265 07077 97286
 17110 49842 39949 76952 27706 32845 41896 32163 08973 42327
 97483 49412 32002 65373 40218 26298 14595 18816 22966 54691
 29582 22690 40103 46461 65346 27987 30063 79601 90488 50580
 64074 61049 05982 48505 75456 49681 62368 05051 13723 04945
 14034 16338 05693 53098 59630 33335 94168 67036 91643 77573
 37221 01329 94298 52385 67704 94419 09739 93487 11606 99718
 02782 62293 41673 58391 78252 36434 43429 83495 89916 90535
 63928 09543 05092 18020 40657 13244 16997 87003 86829 32010
 33817 63026 87957 12914 13359 62744 66749 53596 80800 81035
 39942 68880 93444 14003 02162 000 000

13409/12195/11526 kHz, 03-08/09-08, 1900/1920/1940 UTC

397 397 397 1 1612 153 1612 153

13109 20470 66047 66998 95941 77184 22832 62044 24652 00644
 02193 83037 93720 31137 50038 99371 48353 09732 91845 66446
 41700 39854 12784 61597 72462 71580 26771 79509 99053 42031
 55100 01507 67597 05079 57695 25542 66648 28847 65002 65331
 16838 01639 42095 23503 50365 35073 99480 89640 15193 02423
 71328 17009 33114 42047 64986 73254 07685 04450 94475 24360
 50413 43322 62990 82620 45543 00786 20440 88640 73440 24495
 32722 19506 44729 26514 49608 40061 97758 89280 11231 37388
 72099 37129 64315 96629 70701 38091 68391 20549 40091 84439
 17857 62197 34370 40641 14917 73514 38648 59473 77959 49679
 14633 10839 16199 90697 69699 51822 72278 06600 92437 24925
 75495 18404 93217 57087 52259 13284 79005 66359 11919 07451
 32293 99889 48549 89000 06638 70524 85134 04088 11596 76092
 01412 38284 11320 61551 22755 61260 20930 73617 26929 18879
 65811 61791 28110 15165 08943 99451 68979 77282 88380 01633
 94508 72287 47554 000 000

13409/12195/11526 kHz, 10-08/16-08, 1900/1920/1940 UTC

397 397 397 1 62728 151 6278 151

60541 37803 30840 35098 92016 40057 41986 60242 33728 28027
 31843 85691 52911 79408 97581 22386 97846 09322 82205 73218
 33885 87164 69296 84983 27278 65765 27652 07543 78263 02099
 96875 17835 89728 06833 47973 83577 86855 11059 93961 48036
 10920 67339 15115 25919 07556 30664 99662 31886 27503 93230
 67589 19703 63228 81425 69255 73376 68505 45855 07820 26250
 12404 34442 81978 31628 31151 14008 95962 46078 31434 14003
 35530 86787 15360 34168 62298 66544 72048 43376 77426 96612
 66102 95765 80038 85031 34509 77172 54605 08302 37577 74596
 15072 40999 03238 67710 35631 76476 85360 83485 94767 93547
 34701 53583 00451 13500 57699 80800 04342 29059 19127 02710
 01327 25128 68428 11206 60147 16638 54402 96945 97117 53978
 59402 87659 08501 56837 98930 94530 83548 47648 98536 85820
 81182 88562 48608 83878 61911 12518 95313 66538 27331 53708
 72289 25545 89174 34866 73269 89942 72569 92030 07563 18993
 22074 000 000

13409/12195/11526 kHz, 17-08/23-08, 1900/1920/1940 UTC

397 397 397 1 1359 151 1359 151
52624 45212 13142 26215 66419 86702 58842 30761 18394 66135
37679 40407 48977 34259 81641 91873 21063 93109 24497 41428
88189 29052 71417 42102 85273 98978 89014 18723 90638 68901
29084 91011 58958 07770 13769 12486 24877 80215 52492 23412
23346 39776 83614 00503 99739 51268 32285 33732 89951 11582
40856 55572 16523 62860 15808 23572 73793 71039 40940 67439
97687 40119 40121 49492 37050 46667 81447 41207 20490 69154
66995 40847 40616 01085 18082 48413 45437 70914 42361 34004
66693 55281 28770 79056 28045 73511 74487 96097 91961 90195
38691 53837 39274 85051 25723 83225 99653 34122 63451 53072
69819 91077 13242 20796 44585 00009 14955 15438 44778 67393
78134 02879 28678 06936 00746 42406 11348 61064 21446 63538
72178 85349 49245 30293 30462 13158 01572 55564 75361 34855
48759 11315 07463 89288 64183 75614 42039 07973 34470 28036
58555 59049 51318 24567 12061 35812 25158 32338 84305 83315
71877 000 000

13409/12195/11526 kHz, 24-08/30-08, 1900/1920/1940 UTC

397 397 397 1 9459 169 9459 169
52129 88050 01575 99600 97284 09347 39015 47002 81254 81540
24724 22946 16070 42283 43810 53875 46759 41163 10754 58316
04136 69092 40773 00540 81627 84186 21594 68170 75607 02961
01068 72340 22982 03277 17053 50124 06370 00447 36670 82919
70051 91087 64526 80881 83558 61425 49213 02091 16112 92328
23161 46910 37118 58100 34435 83035 47277 01035 17872 13098
87752 70843 71393 78293 80471 52382 99962 12793 25229 93685
47504 46312 04493 27833 88264 13047 04566 59891 16981 20202
34972 19502 52058 83278 79798 54156 35221 64881 68840 34016
02846 05395 82470 23572 95165 99206 19694 86231 00409 31055
61461 36520 76860 22425 44823 76848 42417 09285 69835 21388
78469 87385 84052 97769 78125 68049 18785 88113 98493 26315
17161 35081 43952 91212 90838 42169 63837 80920 32666 89156
93351 18333 59481 85805 58739 98551 42641 29633 38455 02950
11738 25936 95044 47451 55546 15460 21282 84702 45446 26915
80421 31579 87737 74093 14013 26380 92467 85647 31585 02654
13010 61496 76617 80777 28035 60135 27903 98245 39030 000 000

13409/12195/11526 kHz, 31-08, 1900/1920/1940 UTC

397 397 397 1 4372 186 4372 186
89363 80848 69211 97106 35119 10956 27088 11770 69145 68096
70285 96487 65427 92055 95845 57325 65920 06275 44537 44137
23163 47843 94956 15016 95521 09163 29822 69691 04666 40024
36961 05626 72968 04945 69128 64911 31911 48663 84735 82197
24380 88705 56683 09829 69080 46023 29413 42532 16575 67696
41078 45667 97690 51581 50120 41520 85891 54195 01585 25956
81133 57396 07104 29120 31135 64658 23519 60482 22926 30933
25414 17257 21538 62339 19756 34456 91158 85126 45934 49497
79748 87288 53116 36968 98945 91293 07935 21387 54823 27608
79019 77714 47077 58779 01063 66983 81601 27562 78693 04421
22504 68930 19605 85640 42282 23821 24128 35350 31824 15664
50360 00764 08260 52086 46206 93843 04279 70135 30174 39840
56723 02131 05658 95316 51913 47698 70178 62758 61275 52771
52853 63596 06433 41513 26993 10818 67682 67474 94684 75123
67164 72583 89561 39158 77247 78254 69454 94989 12573 07219
62703 11466 97387 38852 47696 20372 63271 24287 33727 94582
53641 61369 74073 79051 62809 86763 94329 66745 25092 35387
26160 36804 75449 55049 72675 84138 12569 66499 18069 73657
78243 75188 50185 54056 90067 41387 000 000

11564/10487/9319 kHz, 06-08/08-08, 1900/1920/1940 UTC

258 0258 258 1 5387 278 5387 278

75130 06529 96969 41503 52649 06060 12554 58390 70587 65838
55011 85495 14675 66189 26855 83954 44621 62186 35966 69794
55279 70966 62788 65526 56058 27896 47443 41735 91900 97935
17257 00026 78405 50843 06352 18227 38688 43071 73312 92308
11839 72707 14291 31391 98447 36997 51716 45044 59057 90575
19906 55910 72882 36180 01986 04164 43740 31442 85444 24753
58616 70818 70818 72650 48580 54985 07089 63830 59837 08626
45265 01550 88873 43657 57954 82570 56674 31397 67077 19061
76179 02399 22677 01324 78029 61345 27142 42224 48856 02187
74487 07245 57626 48558 33691 41020 06217 41640 82809 43462
29907 87884 85205 50430 45310 18355 67036 29224 78225 19414
47488 12342 64364 66382 48572 56217 88140 65165 94620 87233
27842 64864 14973 57649 34138 38019 43923 40315 09965 16934
76353 15034 48586 23614 89153 88293 17192 32246 56012 59673
94308 97917 63998 29441 54698 62144 42880 91243 99984 77473
52878 41050 47018 95575 15620 65041 72910 27556 16292 07290
74431 26720 19251 61290 43060 32454 63755 40749 77227 60278
39024 55893 09152 34946 92924 29924 00866 85530 02951 71992
95137 52679 40329 32491 64054 35302 68014 53010 07994 24111
15382 89635 15954 48722 85241 67587 78658 02707 86380 22243
98387 02131 14015 39706 30448 90983 31898 12071 02650 85695
64175 87379 24604 44298 12151 21751 86390 86766 97234 07757
64438 10745 32755 53116 44895 49388 39939 60429 49704 25336
51264 98157 99149 80706 73604 93006 38663 00622 94041 67069
03404 55943 50359 22297 59935 28002 65030 71654 36570 63489
81195 91890 05471 78623 57804 87642 69374 60898 94810 89058
57044 71468 62366 77313 34430 66017 88228 43896 70693 19143
83087 85768 92723 30165 04352 08495 60385 10457 000 000

11564/10487/9319 kHz, 13-08/15-08, 1900/1920/1940 UTC

258 258 258 1 2248 279 2248 279

08346 34539 09514 38833 07230 46714 59485 85516 23971 07930
34474 29012 58880 56882 26969 76941 35567 08511 68403 14785
19677 06717 85565 95896 96584 04596 13446 06252 49676 73442
98613 16990 28730 62405 43674 76623 88625 96871 78048 72443
40713 82613 71038 70273 34929 03980 81260 31426 26339 86136
43667 39553 79789 64457 38555 01628 48973 13616 42247 02634
33267 53233 35840 50528 09315 17483 00281 96474 13207 50344
88315 38695 30462 95959 74070 37062 35678 15291 60966 92604
23334 82019 79911 63538 29770 59059 37200 64272 23849 42046
27650 75008 54623 75414 39175 87478 46773 20510 60957 17445
03698 84785 18218 75993 97819 04971 09091 83829 90385 01492
65949 33681 52648 49642 79298 51246 73320 72300 20753 50254
90282 36007 72634 71160 22694 13306 84071 55046 56783 86590
90288 15168 54333 43521 88905 38548 63800 03918 65712 24803
49968 53369 73086 22357 76095 93968 22360 04980 96114 87928
14158 74471 99755 10702 37162 67690 12161 47056 53298 84512
20899 54043 27045 03794 11203 50781 79347 09167 70736 40749
87445 69401 06582 95949 00286 26912 62120 50266 95064 28725
99205 79090 58930 68854 72432 15816 15411 43630 06359 21215
26307 16744 50619 81204 03903 95923 26320 70091 11154 25314
14621 13032 04243 55364 00483 44755 67888 03806 10446 10249
05569 61893 51991 24573 93566 41808 95112 58190 31360 95385
35369 35716 02768 39520 14362 70700 18782 25377 92045 04362
00588 92028 39112 69749 14104 77712 34846 03566 68371 27677
47926 11604 33213 96108 15640 64492 64751 26045 87636 62094
00811 68133 38710 15767 89943 78903 10464 04722 41002 29781
25972 42511 11759 06053 09660 13539 23761 82241 10469 15853
06961 91545 89817 03683 47458 23764 02503 06658 23874 000 000

11564/10487/9319 kHz, 20-08/22-08 1900/1920/1940 UTC

258 258 258 1 5329 286 5329 286
81189 56900 74953 11877 32476 77983 72483 83884 00595 92901
76643 04670 57556 08912 26655 45555 01321 29963 66926 31517
85549 60035 82133 37712 02069 63956 08120 03174 19592 67130
31618 99690 30769 11871 77824 67731 74200 26216 23606 51671
63445 35327 62739 95141 52910 84334 06977 76386 10622 49481
89378 14431 49214 00255 87465 21154 74766 37241 09808 68518
69862 69309 64291 33463 61284 76951 73899 45685 31087 58922
71354 95103 06357 15255 68091 50221 97294 86991 84801 17733
56979 31733 92551 70109 77750 17186 50476 30514 24405 56670
92964 36959 16408 55086 81807 94135 71034 29275 33856 75957
10435 61290 45299 51698 78126 94274 08074 33958 32063 37243
23858 87773 52438 92073 11539 38129 76757 94181 55712 14098
26474 43385 21279 74416 65957 34594 78695 51269 33447 73954
79186 68019 53135 08844 07298 95687 86433 40852 99198 83475
09111 16518 98349 87160 32811 05190 84520 24334 43547 43678
17378 76851 73561 89756 49483 67049 40011 70881 85739 43732
15579 56803 00511 58207 58056 55837 34638 43594 84774 15850
51095 35904 02199 72236 35986 09956 45034 34118 41604 60766
59173 54360 07722 89768 56576 02334 94456 60377 59359 40248
55676 15551 55112 48249 26784 52307 16007 40141 29104 76972
70550 40925 39558 26697 91980 81473 74651 01325 54770 39527
22014 05892 92277 24972 93857 61217 49081 10741 01631 55721
60380 17260 84233 44526 60172 36144 80790 53949 04340 82678
93947 04892 05013 64630 90215 08947 14802 80024 97787 75102
27681 93131 08606 19832 19233 39783 86272 30339 54390 06678
03225 05266 38510 73381 15592 92856 56691 95030 67523 55836
00682 20702 96983 72090 45578 17122 00879 64646 34756 84909
46415 69056 12953 26528 28040 68248 62654 64400 26293 10388
49870 50651 99558 97660 79453 88681 000 000

11564/10487/9319 kHz, 27-08/29-08, 1900/1920/1940 UTC

258 258 258 1 5185 287 5185 287
15356 91442 68413 65820 34718 53172 43479 14994 53058 66256
54847 30764 51808 65755 51974 16754 05906 34099 21437 51739
86664 66819 84011 20128 50361 88506 94337 04186 99287 19835
15166 23452 49733 43132 84415 07963 94781 81263 13564 28738
11361 04711 60659 10248 84860 77561 95385 44133 68637 97851
91796 63609 53108 57057 88033 48536 07430 48284 15458 46210
58234 39292 15706 33223 51089 31395 81030 08676 81338 44011
21971 24642 20535 92698 40377 81952 06160 73763 35266 72799
93119 50803 35548 01435 28038 51556 70342 92674 55098 35879
00532 46496 65804 67353 70503 72067 89004 27435 59158 53465
96529 86709 62794 24605 75080 67153 43073 60409 16679 06080
42375 33666 13018 42658 53089 07430 03744 14270 05185 99531
61052 88354 53577 45459 43478 75473 58837 53181 22169 98309
92947 78724 14605 81800 76268 06410 88008 10922 25553 60883
08482 09932 75994 49017 95003 66865 33478 23145 14263 63072
68323 74733 22250 59625 92411 08175 33132 17334 81146 00406
08316 89891 38214 48369 13132 63650 19060 31217 66389 46679
19421 92821 88715 44300 91049 51119 12359 04559 51955 76611
41995 35692 38917 59121 99985 18213 56474 54978 89387 68093
73276 70673 29774 25147 52567 18589 71717 27625 35884 29853
47404 02261 56755 67583 43650 75501 86016 77948 68575 41292
95814 28572 65378 04535 58409 72623 50974 79091 48383 94917
07175 64081 41828 98295 73402 48747 63046 63568 91732 27459
79400 84733 68674 22102 28806 39734 78935 71333 15470 24484
32196 78525 86402 48095 72277 44703 05294 25239 66736 79943
67614 92625 79240 40965 22677 83722 60431 58458 94180 94902
12454 22447 86214 96115 61890 11081 59897 43276 75727 18675
93686 79640 63620 23899 62721 28649 77678 93731 26017 28698
43452 37806 96831 11788 04844 86774 05493 000 000

12189/13475/14643 kHz, 2100/2120/2140 UTC

12189/13475/14643 kHz, 07-08/08-08/14-08/15-08, 2100/2120/2140 UTC

146 146 146 1 9373 74 9373 74
74563 60401 73555 39389 32617 03155 98998 46932 43800 14631
17498 32520 68854 57470 13532 07000 98364 04765 26519 73623
71854 03916 19266 56471 27918 55444 56684 50512 50188 36239
43154 32548 32286 97936 95135 65056 62222 05468 83250 28509
11896 32144 62676 92351 19708 22862 00114 14055 33499 36766
88317 66764 02867 49112 99836 54897 09376 05176 60827 23378
69293 72222 84887 93493 97795 70807 07302 61633 70976 58112
69850 78377 65961 75120 000 000

12189/13475/14643 kHz, 21-08/22-08/28-08/29-08, 2100/2120/2140 UTC

146 146 146 1 5915 151 5915 151
51250 29608 01659 44402 67641 73795 56177 52057 93983 84265
21294 67617 81602 96852 29502 01131 63376 33579 51919 17022
63400 53496 94460 58964 27770 43701 66467 64669 71743 67173
78471 21176 31780 74598 71300 33218 85858 92014 85182 74877
13106 99097 00160 36103 29598 98255 07897 84465 31573 01352
33244 42599 31262 22379 30156 00866 18346 98920 85016 42431
98224 55693 37980 62960 11264 70352 29336 41947 91383 48262
49410 18386 46435 50370 73223 18903 16224 89151 24570 91969
47539 19438 35383 92269 02753 13938 96533 12180 89213 09794
08726 34568 99532 06511 09829 64759 76108 10558 78534 64690
96958 22680 29547 02535 69472 81452 92954 63737 32106 36976
69047 35995 70942 27168 01731 34734 04115 19747 39180 89884
08160 13719 48627 52836 57105 31086 98125 68731 77965 12845
54952 36743 46899 09164 92915 79692 70291 03182 20318 07984
75946 25860 45250 70033 28883 91194 43137 40611 87819 77616
40656 000 000

13457/12161/10928 kHz, 0800/0820/0840 UTC

13457/12161/10928 kHz, 10-08/14-08, 0800/0820/0840 UTC

419 419 419 1 2968 134 2968 134
35601 58179 15903 53705 38489 04977 91619 81680 87402 27812
38794 60094 12198 30137 42774 08605 06289 42353 78953 96771
98166 35505 29864 91354 71494 28504 87752 29268 35513 24550
21948 09833 85259 68770 16811 47476 18235 44933 90427 53363
13693 18516 28863 18604 07370 96397 50364 23491 20133 15209
86303 36173 16489 12347 52921 89182 37629 72125 50468 56080
41569 98488 38538 38950 18907 62231 48377 31963 34273 36918
96251 04411 53956 17988 85920 65057 78848 07896 67544 31220
68302 49227 38111 09680 55204 40287 22312 77463 54494 99789
37941 76206 73182 49246 25847 42852 29598 23806 99613 51477
58357 09143 08533 85134 76580 69824 83407 36240 47094 36123
57228 13098 16819 86686 05849 08356 17188 71854 54272 12723
79312 98040 06314 25679 98701 95417 62160 31636 60034 27009
23363 11854 18724 54760 000 000

13457/12161/10928 kHz, 24-08/28-08, 0800/0820/0840 UTC

419 419 419 1 3142 78 3142 78
29569 15499 85785 25922 73389 23069 06312 59580 86009 34960
46394 15219 22009 04244 17841 40587 26293 11741 13187 92345
97107 53800 95204 85569 72320 32072 58565 38501 52753 96033
19499 44650 71500 56054 72303 69737 14331 48921 17435 26050
70900 02625 40403 72223 34248 10834 76464 24198 54828 11584
89509 87816 23594 90744 02907 94675 56649 96505 10043 37925
86887 49407 82635 04854 04896 47159 31290 26940 62777 48741
88699 95980 59003 48918 77146 82741 05868 96042 000 000

13457/12161/10928 kHz, 31-08, 0800/0820/0840 UTC

419 419 419 1 9230 189 9230 189
 30986 72846 22748 50076 76372 19616 88291 61083 17203 07715
 52804 09874 90180 42373 76752 95770 60694 87432 49169 65982
 57489 41812 56467 39110 96414 87601 07002 06560 22391 47405
 10946 33609 14592 99872 33815 82432 08821 66029 10221 97867
 60491 42427 44750 25025 06251 02190 60748 98161 04643 83492
 38521 54636 55684 08495 26749 55674 69451 38244 15876 97778
 43439 23713 80582 48682 29563 23162 32698 50762 92898 06762
 82064 93634 50318 24958 26737 42785 78197 93609 67568 86485
 57317 27115 22298 76527 94149 94283 97622 15747 11488 44044
 12701 79477 66609 50439 10365 70112 19280 13113 79930 94160
 97035 20328 17586 80567 83318 85501 56185 76829 01150 37253
 44788 27587 89091 41055 31051 73418 81213 38080 12605 80592
 06375 17389 69874 07084 67386 02234 09930 56089 32027 57496
 47804 71477 49959 32209 72936 65169 90324 16898 23057 66979
 46397 72793 74041 11205 64633 94547 64462 42290 53580 50675
 41409 58626 76679 83324 16093 39014 09697 59632 66374 09582
 44679 19559 69516 08495 38824 93199 85168 46985 22726 28877
 15243 71991 97745 40624 80239 26015 06944 84202 77977 42192
 89139 24367 21749 86645 22953 32336 91598 69584 88900 000 000

M14**12211/10243 kHz, 03-08/04-08, 0500/0520 UTC**

952 107 107 52 52 = =
 89359 15223 28157 39633 99745 82324 72234 66464 83979 43239
 22315 78289 19652 51526 49195 19111 51859 33021 58885 78133
 97388 00554 34934 45146 40422 26177 68354 03906 18173 63117
 36088 68186 19900 34604 13932 90198 47746 31795 34887 96057
 12824 87957 28848 27986 64993 21121 04582 97946 79771 62358
 59919 82389
 = = 107 107 52 52 00000

12211/10243 kHz, 05-08/06-08, 0500/0520 UTC

952 138 138 22 22 = =
 83321 12282 54364 66669 60212 50599 29780 69360 82729 47200
 69880 39860 81217 89325 19695 62294 31693 90773 01926 23777
 65796 25908
 = = 138 138 22 22

952 460 460 25 25 = =
 32214 79757 31015 84093 29351 30960 66268 32754 04983 72528
 95889 15489 74980 51679 38682 66344 60970 94737 35336 02781
 83448 99502 00136 28578 80974
 = = 460 460 25 25 00000

12211/10243 kHz, 07-08, 0500/0520 UTC

Not monitored

12211/10243 kHz, 10-08/11-08, 0500/0520 UTC

952 378 378 54 54 = =
 98719 76225 67231 50318 09716 52331 30841 66015 84192 80833
 42155 96863 10331 80741 70144 83574 99254 76664 28449 05632
 47586 03141 84151 59601 08953 34231 66609 19564 67327 50969
 27533 19513 28881 72144 14007 70462 67565 43310 21796 29778
 81586 11375 82080 87566 06112 18701 66697 23809 32356 10649
 17730 24537 56143 34331
 = = 378 378 54 54 00000

12211/10243 kHz, 12-08/13-08, 0500/0520 UTC

952 416 416 32 32 = =
78103 02020 30778 87159 90651 34122 96973 41005 46370 05996
26946 64881 40827 78562 15711 60910 94766 81204 13468 71555
52906 74496 83030 85573 07442 36482 74947 32344 63446 58421
49981 13014
= = 416 416 32 32

952 170 170 25 25 = =
89667 79192 96378 03764 41253 22954 84878 97376 78072 16751
31955 71154 78690 77209 14746 55882 97491 53573 41079 73678
34989 72995 44631 57547 54321
= = 170 170 25 25 00000

12211 kHz, 14-08, 0500 UTC	No transmission. Test tones at 0508z
10243 kHz, 14-08, 0520 UTC	952 952 952 00000

12211/10243 kHz, 17-08/18-08, 0500/0520 UTC

952 839 839 51 51 = =
13589 22920 76776 70377 26491 05257 03274 05349 55865 35162
20234 88545 69988 27249 41810 71181 02158 09096 86439 23148
65370 38454 81618 50656 09312 31876 25813 99525 05545 34465
55933 86312 71874 85414 93809 24444 71803 59048 70115 37571
50022 86026 49162 77307 89877 84420 03017 87560 03744 55334
08372
= = 839 839 51 51 83 952 9 83 95 off (17-08, 0500)
= = 839 839 51 51 00000

12211/10243 kHz, 19-08/20-08, 0500/0520 UTC

19-08, 0500z: 952 (R) 4m49s silence 7713 = = 630 630 21 21 + second message
20-08, 0500z: Off during the repeat of the last group
20-08, 0520z: Ends with = = 417 417 36 36 00000 00000 00000 00000 00000

952 630 630 21 21 = =
69539 60932 29586 55334 41719 13047 47700 40939 81531 54168
79132 04853 23055 12477 28718 65956 09203 20092 19829 29955
87713
= = 630 630 21 21

952 417 417 36 36 = =
26028 82291 13191 68548 37848 45242 54341 67040 24409 94786
60267 60248 71129 45758 71789 50320 29380 04496 43045 95116
99375 01644 50082 64018 48703 53523 41467 09699 64921 93909
40940 00149 09444 12164 81807
= = 417 417 36 36 00000

12211/10243 kHz, 21-08, 0500/0520 UTC

952 952 952 00000

12211/10243 kHz, 24-08/25-08, 0500/0520 UTC

952 148 148 50 50 = =
57558 00173 45090 11821 84123 07406 63943 82273 34423 28025
35734 77742 54442 14121 54177 28170 43898 10523 70370 58705
92749 51964 08406 71435 57814 07263 74319 93674 84228 76188
85204 81805 09718 44701 32877 13573 08710 24368 31967 84566
70855 99154 98095 26499 94078 47929 04952 52520 13978 67666
= = 148 148 50 50 00000

12211 kHz, 26-08, 0505 UTC Late start
12211 kHz, 26-08, 0520 UTC 952 (R) Wrong freq. Switched freq at 0523z
10243 kHz, 26-08, 0523 UTC
12211/10243 kHz, 27-08, 0500/0520 UTC
 952 367 367 25 25 = =
 73276 56903 51451 77675 58277 43976 87281 09851 37684 00724
 05061 46183 42764 74387 70455 37353 13630 73999 45989 57762
 06239 74138 53553 36866 42846
 = = 367 367 25 25

952 184 184 32 32 = =
 91262 64195 37062 88109 30581 72274 18383 16823 72098 06635
 09092 90225 64840 31317 99009 80429 59483 25279 85719 64401
 61042 89535 29060 90134 28515 89171 79925 14422 32448 84906
 56823 79377
 = = 184 184 32 32 00000

12211/10243 kHz, 28-08, 0500/0520 UTC
 952 952 952 00000

12211/10243 kHz, 31-08/01-09, 0500/0520 UTC
 952 376 376 54 54 = =
 44905 41858 04143 75082 11849 53519 13496 08627 71177 96768
 05628 63060 83992 22976 41754 41312 24198 72928 57136 51305
 64484 50482 48085 34730 88967 29518 25474 28345 68429 73873
 33186 49982 59086 74968 54946 26443 10841 36777 57965 05480
 95933 62859 46844 19050 93948 25134 26160 90020 94099 19066
 95191 99523 00747 34977
 = = 376 376 54 54 00000

M23

6936 kHz, 02-05 Aug, 1459 UTC	00000 33333 55555 77777 (R25m)
6936 kHz, 02-05 Aug, 1529 UTC	00000 33333 55555 77777 (R25m)
7668 kHz, 06-28 Aug, 1059 UTC	00000 33333 55555 77777 (R25m)
7668 kHz, 06-28 Aug, 1129 UTC	00000 33333 55555 77777 (R25m)
4880 kHz, 09-27 Aug, 1859 UTC	00000 33333 55555 77777 (R25m)
4880 kHz, 09-27 Aug, 1929 UTC	00000 33333 55555 77777 (R25m)

4880 kHz, hh59: Hourly Beep. Not heard after 27-08
 7668 kHz, hh59: Hourly Beep

M89 - Chinese Military

13457 kHz, 03-08, 0755 UTC
 i.p. 7N4U 6443 73 ?
 73NT 3D4D 4NTA 6UAN T47D AR K
 R = 65D6 65N6 T64D 55AD TD4D 5463 5463 AR
 R = A33U A44D K

5454 kHz, 18-08, 1219 UTC
 i.p. /31/22/22/222232/X732A/COMM/6273 AR
 22222 =
 784/XZ56/7253/27/30/22/X723A/COMM/6273 AR =
 784/XZ52/6056/274/38/52/X752A/COMM/6273 AR

5323 kHz, 18-08, 1553 UTC

i.p. F NR 1824/EX 2352 =
CF1/W2 AR QSY 03 QSY 03

4551.5 kHz, 18-08, 1610 UTC

i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M

8556 kHz, 26-08, 1700 UTC, i.p.

NR 226 CK 51 53 0829 0100 RMKS 8636 TO 8573 =
FF NR 89/EX 0108 RMKS 8573 TO 8536 = ABC1/DEF2 AR K (2nd stn)
FF NR 235/EX 0107 8539 TO 8573 = ABC1/DEF2 =
NR 888 CK 51 .3 08 0110 RMKS 8573 TO 8539 =

M95 - Chinese Military**5040 kHz, 17-08, 1335 UTC, i.p.**

191 24 01 8 094 3930 RMKS 13US TO 69U6
NR 1492/CCK CK 191 25 0818 094 30 094 0940 0945 RMKS JS TO 693U6
1296/CCK CK 2191 24 618 0943 030 RMKS 1WUU TO NNO N
NR 1282/CCK 191 34 0618 08 0940 RMKS JUUS TO 69UB TO 4950 RMKS JUUS TO 69UB BBBB 91 ...

9042 6352, 4156 kHz, 30-08, 1151 UTC

NR 014 CK 29 35 0830 1530 =
NR 088 CK 49 35 0830 1531 =
NR 60 CK 186 35 0830 1534 =

UM04 - PROMRCh**4735 kHz, 01-08, 0700 UTC****Note the missing date.**

VVV VVV PROMRCh =
1000 0740 0770 0870 1300
1200 0770 0790 0890 1350
1400 0770 0800 0900 1340
1600 0770 0790 0890 1250
1800 0710 0740 0840 1150
2000 0780 0810 0900 1210
2200 0740 0770 0850 1140
0000 0660 0680 0750 0990
0200 0560 0580 0640 0840
0400 0490 0510 0560 0750
0600 0560 0590 0670 0920
0800 0670 0700 0810 1130 =
ABV
VVV VVV PROMRCh =
1000 0740 0770 0870 1300
1200 0770 0790 0890 1350
1400 0770 0800 0900 1340
1600 0770 0790 0890 1250
1800 0710 0740 0840 1150
2000 0780 0810 0900 1210
2200 0740 0770 0850 1140
0000 0660 0680 0750 0990
0200 0560 0580 0640 0840
0400 0490 0510 0560 0750
0600 0560 0590 0670 0920
0800 0670 0700 0810 1130 =
AR

4735 kHz, 02-08, 0700 UTC

VVV VVV PROMRCh = 02 08 =
1000 0720 0740 0850 1300
1200 0750 0780 0870 1350
1400 076N 0790 0880 1330
1600 0760 0790 0880 1250
1800 0710 0730 0830 2140
2000 0780 0810 0900 1200
2200 0740 0760 0850 1120
0000 0650 0670 0740 0980
0200 0560 0580 0630 0830
0400 0490 0510 0560 0750
0600 0560 0580 0660 0920
0800 0670 0700 0810 1130 =
ABV
VVV VVV PROMRCh = 02 08 =
1000 0720 0740 0850 1300
1200 0750 0780 0870 1350
1400 076N 0790 0880 1330
1600 0760 0790 0880 1250
1800 0710 0730 0830 2140
2000 0780 0810 0900 1200
2200 0740 0760 0850 1120
0000 0650 0670 0740 0980
0200 0560 0580 0630 0830
0400 0490 0510 0560 0750
0600 0560 0580 0660 0920
0800 0670 0700 0810 1130 =
AR

4735 kHz, 03-08, 0700 UTC

VVV VVV PROMRCh = 03 08 =
1000 0730 0760 0860 1290
1200 0770 0790 0880 1330
1400 0770 0800 0900 1320
1600 0770 0800 0900 1240
1800 0720 0740 0840 1160
2000 0790 0820 0910 1220
2200 0750 0770 0850 1130
0000 0660 0680 0740 0980
0200 0570 0580 0640 0840
0400 0500 0510 0570 0750
0600 0560 0590 0670 0920
0800 0680 0710 0820 1140 =
ABV
VVV VVV PROMRCh = 03 08 =
1000 0730 0760 0860 1290
1200 0770 0790 0880 1330
1400 0770 0800 0900 1320
1600 0770 0800 0900 1240
1800 0720 0740 0840 1160
2000 0790 0820 0910 1220
2200 0750 0770 0850 1130
0000 0660 0680 0740 0980
0200 0570 0580 0640 0840
0400 0500 0510 0570 0750
0600 0560 0590 0670 0920
0800 0680 0710 0820 1140 =
AR

4735 kHz, 04-08, 0700 UTC

VVV VVV PROMRCh = 04 08 =
1000 0740 0770 0870 1290
1200 0770 0800 0890 1330
1400 0780 0810 0900 1320
1600 0780 0800 0900 1230
1800 0720 0750 0850 1160
2000 0790 0820 0910 1220
2200 0750 0770 0860 1140
0000 0660 0680 0740 0980
0200 0580 0590 0650 0850
0400 0500 0520 0570 0760
0600 0570 0590 0670 0920
0800 0690 0720 0830 1160 =
ABV
VVV VVV PROMRCh = 04 08 =
1000 0740 0770 0870 1290
1200 0770 0800 0890 1330
1400 0780 0810 0900 1320
1600 0780 0800 0900 1230
1800 0720 0750 0850 1160
2000 0790 0820 0910 1220
2200 0750 0770 0860 1140
0000 0660 0680 0740 0980
0200 0580 0590 0650 0850
0400 0500 0520 0570 0760
0600 0570 0590 0670 0920
0800 0690 0720 0830 1160 =
AR

4735 kHz, 05-08, 0700 UTC

VVV VVV PROMRCh = 05 08 =
 1000 0720 0750 0850 1290
 1200 0760 0780 0880 1330
 1400 0770 0790 0890 1320
 1600 0760 0790 0890 1240
 1800 0710 0740 0840 1160
 2000 0790 0810 0910 1220
 2200 0740 0770 0850 1130
 0000 0650 0770 0740 0970
 0200 0570 0590 0650 0840
 0400 0500 0510 0570 0750
 0600 0560 0590 0670 0930
 0800 0690 0720 0830 1160 =
 ABV

VVV VVV PROMRCh = 05 08 =
 1000 0720 0750 0850 1290
 1200 0760 0780 0880 1330
 1400 0770 0790 0890 1320
 1600 0760 0790 0890 1240
 1800 0710 0740 0840 1160
 2000 0790 0810 0910 1220
 2200 0740 0770 0850 1130
 0000 0650 0770 0740 0970
 0200 0570 0590 0650 0840
 0400 0500 0510 0570 0750
 0600 0560 0590 0670 0930
 0800 0690 0720 0830 1160 =
 AR

4735 kHz, 06-08, 0700 UTC

VVV VVV PROMRCh = 06 08 =
 1000 0680 0710 0810 1290
 1200 0720 0750 0850 1320
 1400 0740 0760 0870 1310
 1600 0740 0770 0870 1230
 1800 0700 0720 0820 1140
 2000 0870 0800 0890 1200
 2200 0730 0750 0840 1120
 0000 0640 0660 0730 0960
 0200 0570 0580 0640 0840
 0400 0490 0510 0560 0750
 0600 0560 0580 0660 0920
 0800 0690 0720 0830 1160 =
 ABV

VVV VVV PROMRCh = 06 08 =
 1000 0680 0710 0810 1290
 1200 0720 0750 0850 1320
 1400 0740 0760 0870 1310
 1600 0740 0770 0870 1230
 1800 0700 0720 0820 1140
 2000 0870 0800 0890 1200
 2200 0730 0750 0840 1120
 0000 0640 0660 0730 0960
 0200 0570 0580 0640 0840
 0400 0490 0510 0560 0750
 0600 0560 0580 0660 0920
 0800 0690 0720 0830 1160 =
 AR

4735 kHz, 07-08, 0700 UTC

VVV VVV PROMRCh = 07 08 =
 1000 0670 0700 0810 1290
 1200 0620 0740 0840 1320
 1400 0730 0760 0860 1310
 1600 0740 0760 0870 1230
 1800 0690 0720 0830 1140
 2000 0770 0800 0890 1200
 2200 0730 0750 0830 1110
 0000 0640 0650 0720 0950
 0200 0560 0580 0630 0820
 0400 0490 0500 0560 0740
 0600 0560 0580 0660 0920
 0800 0690 0720 0830 1170 =
 ABV

VVV VVV PROMRCh = 07 08 =
 1000 0670 0700 0810 1290
 1200 0620 0740 0840 1320
 1400 0730 0760 0860 1310
 1600 0740 0760 0870 1230
 1800 0690 0720 0830 1140
 2000 0770 0800 0890 1200
 2200 0730 0750 0830 1110
 0000 0640 0650 0720 0950
 0200 0560 0580 0630 0820
 0400 0490 0500 0560 0740
 0600 0560 0580 0660 0920
 0800 0690 0720 0830 1170 =
 AR

4735 kHz, 08-08, 0700 UTC

VVV VVV PROMRCh = 08 08 =
 1000 0710 0740 0840 1290
 1200 0750 0770 0870 1320
 1400 0760 0780 0880 1310
 1600 0750 0780 0880 1230
 1800 0710 0740 0840 1200
 2000 0780 0810 0900 1220
 2200 0730 0760 0840 1120
 0000 0640 0660 0730 0950
 0200 0570 0580 0640 0830
 0400 0490 0500 0560 0740
 0600 0560 0580 0660 0920
 0800 0700 0720 0840 1170 =
 ABV

VVV VVV PROMRCh = 08 08 =
 1000 0710 0740 0840 1290
 1200 0750 0770 0870 1320
 1400 0760 0780 0880 1310
 1600 0750 0780 0880 1230
 1800 0710 0740 0840 1200
 2000 0780 0810 0900 1220
 2200 0730 0760 0840 1120
 0000 0640 0660 0730 0950
 0200 0570 0580 0640 0830
 0400 0490 0500 0560 0740
 0600 0560 0580 0660 0920
 0800 0700 0720 0840 1170 =
 AR

4735 kHz, 09-08, 0700 UTC

VVV VVV PROMRCh = 09 08 =
 1000 0690 0720 0830 1280
 1200 0730 0760 0860 1320
 1400 0740 0770 0870 1310
 1600 0740 0770 0870 1230
 1800 0700 0720 0830 1150
 2000 0770 0800 0890 1210
 2200 0720 0750 0830 1110
 0000 0640 0660 0720 0950
 0200 0570 0580 0640 0830
 0400 0480 0500 0550 0740
 0600 0560 0580 0660 0920
 0800 0700 0730 0830 1170 =
 ABV

VVV VVV PROMRCh = 09 08 =
 1000 0690 0720 0830 1280
 1200 0730 0760 0860 1320
 1400 0740 0770 0870 1310
 1600 0740 0770 0870 1230
 1800 0700 0720 0830 1150
 2000 0770 0800 0890 1210
 2200 0720 0750 0830 1110
 0000 0640 0660 0720 0950
 0200 0570 0580 0640 0830
 0400 0480 0500 0550 0740
 0600 0560 0580 0660 0920
 0800 0700 0730 0830 1170 =
 AR

4735 kHz, 10-08, 0700 UTC

VVV VVV PROMRCh = 10 08 =
 1000 0690 0720 0830 1290
 1200 0720 0750 0850 1320
 1400 0740 0760 0870 1310
 1600 0740 0760 0870 1230
 1800 0690 0720 0830 1150
 2000 0770 0790 0890 1200
 2200 0720 0740 0820 1110
 0000 0630 0650 0710 0940
 0200 0560 0580 0630 0830
 0400 0480 0490 0550 0730
 0600 0550 0580 0670 0910
 0800 0700 0730 0840 1180 =
 ABV

VVV VVV PROMRCh = 10 08 =
 1000 0690 0720 0830 1290
 1200 0720 0750 0850 1320
 1400 0740 0760 0870 1310
 1600 0740 0760 0870 1230
 1800 0690 0720 0830 1150
 2000 0770 0790 0890 1200
 2200 0720 0740 0820 1110
 0000 0630 0650 0710 0940
 0200 0560 0580 0630 0830
 0400 0480 0490 0550 0730
 0600 0550 0580 0670 0910
 0800 0700 0730 0840 1180 =
 AR

4735 kHz, 11-08, 0700 UTC

VVV VVV PROMRCh = 11 08 =
 1000 0640 0670 0790 1280
 1200 0680 0710 0810 1310
 1400 0700 0730 0840 1300
 1600 0710 0730 0840 1230
 1800 0670 0700 0810 1120
 2000 0750 0770 0870 1170
 2200 0700 0720 0800 1080
 0000 0610 0630 0700 0920
 0200 0550 0560 0620 0810
 0400 0460 0480 0530 0710
 0600 0540 0560 0650 0900
 0800 0690 0720 0830 1160 =
 ABV

VVV VVV PROMRCh = 11 08 =
 1000 0640 0670 0790 1280
 1200 0680 0710 0810 1310
 1400 0700 0730 0840 1300
 1600 0710 0730 0840 1230
 1800 0670 0700 0810 1120
 2000 0750 0770 0870 1170
 2200 0700 0720 0800 1080
 0000 0610 0630 0700 0920
 0200 0550 0560 0620 0810
 0400 0460 0480 0530 0710
 0600 0540 0560 0650 0900
 0800 0690 0720 0830 1160 =
 AR

4735 kHz, 12-08, 0700 UTC

VVV VVV PROMRCh = 12 08 =
 1000 0670 0700 0810 1290
 1200 0710 0730 0840 1310
 1400 0720 0750 0850 1300
 1600 0720 0750 0850 1220
 1800 0680 0710 0810 1140
 2000 0750 0780 0880 1180
 2200 0700 0720 0800 1080
 0000 0610 0630 0690 0910
 0200 0540 0560 0610 0800
 0400 0460 0480 0530 0710
 0600 0540 0560 0650 0900
 0800 0690 0720 0830 1170 =
 ABV

VVV VVV PROMRCh = 12 08 =
 1000 0670 0700 0810 1290
 1200 0710 0730 0840 1310
 1400 0720 0750 0850 1300
 1600 0720 0750 0850 1220
 1800 0680 0710 0810 1140
 2000 0750 0780 0880 1180
 2200 0700 0720 0800 1080
 0000 0610 0630 0690 0910
 0200 0540 0560 0610 0800
 0400 0460 0480 0530 0710
 0600 0540 0560 0650 0900
 0800 0690 0720 0830 1170 =
 AR

4735 kHz, 13-08, 0700 UTC.**K + underscores at the end**

VVV VVV PROMRCh = 13 08 =
 1000 0670 0700 0820 1280
 1200 0710 0740 0840 1310
 1400 0720 0750 0850 1300
 1600 0720 0750 0850 1220
 1800 0680 0700 0810 1140
 2000 0750 0780 0800 1180
 2200 0690 0710 0800 1080
 0000 0600 0620 0680 0900
 0200 0530 0550 0600 0790
 0400 0460 0470 0520 0700
 0600 0540 0560 0640 0900
 0800 0690 0720 0830 1170 =
 ABV
 VVV VVV PROMRCh = 13 08 =
 1000 0670 0700 0820 1280
 1200 0710 0740 0840 1310
 1400 0720 0750 0850 1300
 1600 0720 0750 0850 1220
 1800 0680 0700 0810 1140
 2000 0750 0780 0800 1180
 2200 0690 0710 0800 1080
 0000 0600 0620 0680 0900
 0200 0530 0550 0600 0790
 0400 0460 0470 0520 0700
 0600 0540 0560 0640 0900
 0800 0690 0720 0830 1170 =
 AR K_ K_ _ K_

4735 kHz, 17-08, 0700 UTC

VVV VVV PROMRCh = 17 08 =
 1000 0700 0740 0850 1280
 1200 0730 0760 0870 1300
 1400 0740 0760 0870 1300
 1600 0730 0760 0870 1220
 1800 0680 0710 0820 1150
 2000 0750 0780 0880 1190
 2200 0680 0700 0790 1070
 0000 0580 0600 0660 0870
 0200 0510 0520 0580 0760
 0400 0440 0450 0500 0670
 0600 0510 0540 0620 0870
 0800 0670 0710 0820 1160 =
 ABV
 VVV VVV PROMRCh = 17 08 =
 1000 0700 0740 0850 1280
 1200 0730 0760 0870 1300
 1400 0740 0760 0870 1300
 1600 0730 0760 0870 1220
 1800 0680 0710 0820 1150
 2000 0750 0780 0880 1190
 2200 0680 0700 0790 1070
 0000 0580 0600 0660 0870
 0200 0510 0520 0580 0760
 0400 0440 0450 0500 0670
 0600 0510 0540 0620 0870
 0800 0670 0710 0820 1160 =
 AR

4735 kHz, 14-08, 0700 UTC

VVV VVV PROMRCh = 14 08 =
 1000 0660 0700 0820 1280
 1200 0700 0730 0840 1310
 1400 0710 0740 0850 1300
 1600 0710 0740 0850 1230
 1800 0670 0700 0810 1130
 2000 0740 0770 0870 1180
 2200 0680 0710 0790 1070
 0000 0590 0610 0680 0890
 0200 0520 0540 0590 0780
 0400 0450 0460 0520 0690
 0600 0530 0550 0630 0890
 0800 0680 0720 0830 1170 =
 ABV
 VVV VVV PROMRCh = 14 08 =
 1000 0660 0700 0820 1280
 1200 0700 0730 0840 1310
 1400 0710 0740 0850 1300
 1600 0710 0740 0850 1230
 1800 0670 0700 0810 1130
 2000 0740 0770 0870 1180
 2200 0680 0710 0790 1070
 0000 0590 0610 0680 0890
 0200 0520 0540 0590 0780
 0400 0450 0460 0520 0690
 0600 0530 0550 0630 0890
 0800 0680 0720 0830 1170 =
 AR

4735 kHz, 18-08, 0700 UTC

VVV VVV PROMRCh = 18 08 =
 1000 0710 0740 0860 1280
 1200 0740 0770 0870 1300
 1400 0740 0760 0880 1290
 1600 0730 0760 0870 1220
 1800 0680 0710 0820 1102
 2000 0750 0770 0870 1190
 2200 0670 0700 0780 1070
 0000 0570 0590 0650 0860
 0200 0500 0510 0570 0740
 0400 0430 0440 0490 0660
 0600 0510 0530 0620 0870
 0800 0670 0700 0820 1160 =
 ABV
 VVV VVV PROMRCh = 18 08 =
 1000 0710 0740 0860 1280
 1200 0740 0770 0870 1300
 1400 0740 0760 0880 1290
 1600 0730 0760 0870 1220
 1800 0680 0710 0820 1102
 2000 0750 0770 0870 1190
 2200 0670 0700 0780 1070
 0000 0570 0590 0650 0860
 0200 0500 0510 0570 0740
 0400 0430 0440 0490 0660
 0600 0510 0530 0620 0870
 0800 0670 0700 0820 1160 =
 AR

4735 kHz, 15-08, 0700 UTC

VVV VVV PROMRCh = 15 08 =
 1000 0700 0730 0840 1280
 1200 0730 0760 0860 1310
 1400 0730 0760 0870 1300
 1600 0730 0760 0870 1220
 1800 0680 0710 0820 1150
 2000 0750 0780 0880 1190
 2200 0690 0710 08A0 1080
 0000 0590 0610 0670 0880
 0200 0520 0540 0590 0780
 0400 0450 0460 0520 0690
 0600 0530 0550 0640 0890
 0800 0690 0720 0830 1170 =
 ABV
 VVV VVV PROMRCh = 15 08 =
 1000 0700 0730 0840 1280
 1200 0730 0760 0860 1310
 1400 0730 0760 0870 1300
 1600 0730 0760 0870 1220
 1800 0680 0710 0820 1150
 2000 0750 0780 0880 1190
 2200 0690 0710 08A0 1080
 0000 0590 0610 0670 0880
 0200 0520 0540 0590 0780
 0400 0450 0460 0520 0690
 0600 0530 0550 0640 0890
 0800 0690 0720 0830 1170 =
 AR

4735 kHz, 19-08, 0700 UTC

VVV VVV PROMRCh = 19 08 =
 1000 0730 0760 0880 1270
 1200 0750 0780 0890 1300
 1400 0750 0780 0890 1290
 1600 0740 0770 0880 1230
 1800 0680 0720 0830 1160
 2000 0760 0780 0880 1200
 2200 0670 0700 0790 1070
 0000 0570 0590 0650 0850
 0200 0490 0500 0560 0730
 0400 0420 0440 0490 0650
 0600 0510 0530 0610 0870
 0800 0670 0700 0810 1160 =
 ABV
 VVV VVV PROMRCh = 19 08 =
 1000 0730 0760 0880 1270
 1200 0750 0780 0890 1300
 1400 0750 0780 0890 1290
 1600 0740 0770 0880 1230
 1800 0680 0720 0830 1160
 2000 0760 0780 0880 1200
 2200 0670 0700 0790 1070
 0000 0570 0590 0650 0850
 0200 0490 0500 0560 0730
 0400 0420 0440 0490 0650
 0600 0510 0530 0610 0870
 0800 0670 0700 0810 1160 =
 AR

4735 kHz, 16-08, 0700 UTC

VVV VVV PROMRCh = 16 08 =
 1000 0690 0730 0840 1270
 1200 0730 0750 0860 1300
 1400 0730 0760 0860 1300
 1600 0720 0760 0860 1220
 1800 0680 0710 0820 1140
 2000 0750 0780 0870 1190
 2200 0680 0710 0790 1070
 0000 0580 0600 0670 0870
 0200 0520 0530 0590 0770
 0400 0440 0460 0510 0680
 0600 0520 0540 0630 0880
 0800 0670 0710 0820 1160 =
 ABV
 VVV VVV PROMRCh = 16 08 =
 1000 0690 0730 0840 1270
 1200 0730 0750 0860 1300
 1400 0730 0760 0860 1300
 1600 0720 0760 0860 1220
 1800 0680 0710 0820 1140
 2000 0750 0780 0870 1190
 2200 0680 0710 0790 1070
 0000 0580 0600 0670 0870
 0200 0520 0530 0590 0770
 0400 0440 0460 0510 0680
 0600 0520 0540 0630 0880
 0800 0670 0710 0820 1160 =
 AR

4735 kHz, 20-08, 0659 UTC

VVV VVV PROMRCh = 20 08 =
 1000 0740 0770 0880 1270
 1200 0750 0780 0890 1290
 1400 0750 0780 0890 1290
 1600 0740 0770 0880 1240
 1800 0690 0720 0830 1170
 2000 0760 0780 0890 1210
 2200 0670 0700 0780 1060
 0000 0560 0580 0640 0850
 0200 0480 0490 0550 0720
 0400 0420 0430 0480 0650
 0600 0500 0520 0610 0860
 0800 0670 0700 0820 1160 =
 ABV
 VVV VVV PROMRCh = 20 08 =
 1000 0740 0770 0880 1270
 1200 0750 0780 0890 1290
 1400 0750 0780 0890 1290
 1600 0740 0770 0880 1240
 1800 0690 0720 0830 1170
 2000 0760 0780 0890 1210
 2200 0670 0700 0780 1060
 0000 0560 0580 0640 0850
 0200 0480 0490 0550 0720
 0400 0420 0430 0480 0650
 0600 0500 0520 0610 0860
 0800 0670 0700 0820 1160 =
 AR

4735 kHz, 29-08, 0700 UTC

VVV VVV PROMRCh = 29 08 =
 1000 0730 0760 0880 1260
 1200 0750 0780 0890 1290
 1400 0750 0780 0890 1290
 1600 0740 0770 0880 1230
 1800 0690 0720 0830 1170
 2000 0760 0790 0890 1220
 2200 0560 0690 0780 1060
 0000 0540 0560 0620 0820
 0200 0480 0490 0540 0720
 0400 0420 0430 0480 0640
 0600 0490 0510 0590 0840
 0800 0660 0690 0800 1150 =
 ABV

VVV VVV PROMRCh = 29 08 =
 1000 0730 0760 0880 1260
 1200 0750 0780 0890 1290
 1400 0750 0780 0890 1290
 1600 0740 0770 0880 1230
 1800 0690 0720 0830 1170
 2000 0760 0790 0890 1220
 2200 0560 0690 0780 1060
 0000 0540 0560 0620 0820
 0200 0480 0490 0540 0720
 0400 0420 0430 0480 0640
 0600 0490 0510 0590 0840
 0800 0660 0690 0800 1150 =
 AR

4735 kHz, 30-08, 0700 UTC

VVV VVV PROMRCh = 30 08 =
 1000 0760 0790 0910 1270
 1200 0780 0810 0920 1290
 1400 0770 0800 0910 1290
 1600 0760 0790 0900 1250
 1800 0710 0740 0850 1200
 2000 0770 0800 0900 1230
 2200 0680 0700 0790 1080
 0000 0550 0570 0630 0830
 0200 0490 0500 0550 0730
 0400 0420 0440 0490 0650
 0600 0490 0520 0600 0850
 0800 0660 0700 0810 1160 =
 ABV

VVV VVV PROMRCh = 30 08 =
 1000 0760 0790 0910 1270
 1200 0780 0810 0920 1290
 1400 0770 0800 0910 1290
 1600 0760 0790 0900 1250
 1800 0710 0740 0850 1200
 2000 0770 0800 0900 1230
 2200 0680 0700 0790 1080
 0000 0550 0570 0630 0830
 0200 0490 0500 0550 0730
 0400 0420 0440 0490 0650
 0600 0490 0520 0600 0850
 0800 0660 0700 0810 1160 =
 AR

4735 kHz, 31-08, 0700 UTC

VVV VVV PROMRCh = 31 08 =
 1000 0710 0750 0860 1260
 1200 0740 0770 0880 1290
 1400 0740 0770 0880 1280
 1600 0730 0760 0870 1220
 1800 0690 0720 0830 1170
 2000 0760 0790 0890 1210
 2200 0660 0690 0780 1060
 0000 0540 0560 0620 0820
 0200 0490 0500 0550 0730
 0400 0420 0440 0490 0660
 0600 0490 0510 0600 0840
 0800 0660 0690 0810 1150 =
 ABV

VVV VVV PROMRCh = 31 08 =
 1000 0710 0750 0860 1260
 1200 0740 0770 0880 1290
 1400 0740 0770 0880 1280
 1600 0730 0760 0870 1220
 1800 0690 0720 0830 1170
 2000 0760 0790 0890 1210
 2200 0660 0690 0780 1060
 0000 0540 0560 0620 0820
 0200 0490 0500 0550 0730
 0400 0420 0440 0490 0660
 0600 0490 0510 0600 0840
 0800 0660 0690 0810 1150 =
 AR

UM10 - 10-minutes net

All logged by JP

3257/3629 kHz, 01-08 UTC, SDXL (1520 – 1530)
 3257/3629 kHz, 02-08 UTC, SDXL (1050 – 1100)
 3257/3629 kHz, 03-08 UTC, SDXL (1150 – 1200)

3287/3886 kHz, 04-08 UTC, LEQA (1155 – 1205)
 3287/3886 kHz, 11-08 UTC, LEQA (1625 – 1635)
 3287/3886 kHz, 20-08 UTC, LEQA (1055 – 1105)
 3287/3886 kHz, 24-08 UTC, LEQA (1455 – 1505)
 3287/3886 kHz, 30-08 UTC, LEQA (1925 – 1935)

4075 kHz, 07-08 UTC, EM4X (1755 – 1805)

3205/4075 kHz, 08-08 UTC, EM4X (1555 – 1605)
 3205/4075 kHz, 11-08 UTC, EM4X (1625 – 1635)
 3205/4075 kHz, 20-08 UTC, EM4X (1055 – 1105)
 3205/4075 kHz, 14-08 UTC, EM4X (1455 – 1505)

6487/7268 kHz, 04-08 UTC, CWS4 (0855 – 0905)
 6487/7268 kHz, 04-08 UTC, CWS4 (0855 – 0905)
 6487/7268 kHz, 11-08 UTC, CWS4 (0925 – 0935)

5945 kHz, 05-08 UTC, EQA7 (0855 – 0905)
 5945 kHz, 07-08 UTC, EQA7 (1025 – 1035)
 5945/6975 kHz, 08-08 UTC, EQA7 (0955 – 1005)
 5945/6975 kHz, 11-08 UTC, EQA7 (0925 – 0935)



DIGITAL MODES

F01

F01 – FSK 200/500 Mon-Fri schedule

11076/9164/7316 kHz, 03-08, 1015/1025/1035 UTC

04269 31367 35976 84807 83905 09092 83543 23518 12595 82039
64833 57940 50630 32221 67608 90429 02541 21020 67512 17837
20718 26102 06363 91707 50168 83886 98273 17639 69049 11032
30792 29740 04713 03345 53254 01118 29908 35588 69519 76350
68859 10590 77302 36855 67885 31116 21266 35112 10265 92927
52068 58672 80022 22473 08564 09892 04331 07642 65330 12314
29212 95022 12715 79664 08229 52108 61591 08371 08847 17872
90004 79560 66169 90165 73907 81465 38715 23369 69158 88175
45933 34730 36979 55679 92153 42840 30057 21122 06638 86664
81482 16232 54442 98586 63696 30835 97762 29892 09658 87412
12456 52124 13395 12627 89424 82767 52145 16759 75557 08676
97260 16992 33899 05694 06071 65484 27753 77912 11896 68160
58394 64986 54382 05163 11085 90950 17365 88904 89075 52992
66434 20655 40284 73585 03399 31593 06337 64457 79825 19286
48664 75793 36857 15494 31327 29145 63482 46280 65275 57464
90444 70330 43719 00700 61998 06439 23297 30402 52665 86087
30738 01767 21217 92067 99691 56561 19037 69063 67431 25360
95070 17159 86099 02542 64549 04177 28195 92474 33663 57819
90987 50330 97380 23519 29543 65961 52607 98952 73049 64292
93852 81160 04135 20639 83612 87186 05854 14417 14643 34206
06047 69661 06317 90052 73740 55803 02249 30095 47294 47135
61377 61418 98969 64407 59694 00173 65610 46990 44802 13162
00126 29036 10494 59462 23463 18092 83538 93109 81754 99581
39863 12751 38330 15611 92310 69206 55274 91521 17178 66880
44228 08642 11700 19954 91114 46658 99685 49305 84476 44065
27485 31085 02119 50108 17470 32895 35730 66671 71229 98494
58193 03548 39655 66989 63246 95521 02113 37420 32204 54706
21874 14706 07411 56571 70018 97869 77124 83103 34972 96489
01511 71530 59873 86304 34438 42047 74973 39923 20760 02987
17228 93565 73780 56869 54291 35777 62569 55768 55095 29055
63842 79425 74186 00319 58071 34565 42036 61167 7419 98830
78478 43861 14895 57792 71496 63962 10303 08455 88510 45573
91186 27709 12392 70106 74939 29163 19355 34532 00887 56787
40943 30039 67317 88811 77276 77028 50250 50325 53763 77412
08627 57986 38447 70119 05621 45318 62194 00768 00748 41994
08899 41435 92455 05573 67889 21464 15905 29108 65740 55234
25598 73077 19654 77857 17567 95060 79619 24705 70799 75616
51527 15734 12589 63781 18428 30525 37496 90638 02121 84987
34615 24391 32267 45660 02828 65374 15204 42547 58727 04447
19658 66425 66916 93201 21539 61561 47343 99428 75000 49783
39386 46267 01966 46823 27361 58488 17287 56902 57138 64347
31744 56454 98564 26435 00061 02964 33373 99971 06130 29831
73266 05421 00000 +++++ +++++ +++++

11076/9164/7316 kHz, 04-08, 1015/1025/1035 UTC

55811 20450 99197 19782 27146 62381 36616 52978 60286 46997
69792 47004 59305 27450 03443 95130 14064 45602 84644 96593
14954 99474 08841 30341 40385 74461 44688 23023 15480 30512
38684 15904 65377 62451 85529 60387 11624 75630 75139 96841
85047 44099 52257 96421 53593 43490 49601 70550 88522 75786
80489 77781 17435 28184 01867 82698 37545 33212 83685 46561
87646 22321 45568 54375 02211 90104 46695 08071 96046 11363
39851 40490 52966 78180 25568 06075 00000

45299 20356 61345 19953 31880 64012 02432 84605 77319 32462
02796 36291 81457 63649 20895 85921 66999 86803 56358 74104
24263 64907 56111 70501 51719 16180 15516 48281 72032 12991
66719 94617 28265 81665 71394 43147 89951 51595 60067 39351
23725 27108 85213 74771 08176 80527 80303 51024 97641 89864
42006 59525 64607 69570 77709 87880 75407 67797 85573 88879
78917 28600 59285 73012 12916 42515 34702 10468 57818 33955
20589 53541 92454 58863 80615 15385 31588 11052 58818 66048
49860 60671 65697 31742 21846 73251 67152 08255 32914 82738
43439 07091 00000 +++++

11076/9164/7316 kHz, 05-08, 1015/1025/1035 UTC

83744 10470 93321 21689 99042 13220 95277 57182 28397 36122
73959 88910 66044 56402 20639 73997 76389 65006 09657 57164
23151 56077 64525 95014 59532 21595 49916 09713 65382 80894
37965 14252 42254 99723 22325 76478 02315 78541 78413 14089
12042 14746 93293 37757 76637 68510 13611 84603 76110 86926
85048 09177 88952 66127 81706 24152 64342 56094 48876 07911
28836 37822 07621 21214 38457 27537 94614 00137 12138 87651
35668 17469 07448 49149 76392 29749 24540 75075 18419 52140
49260 19837 34627 28319 71357 63979 61819 87574 38720 29157
94261 06304 33596 02946 26557 16083 81714 28223 19259 25513
30257 36779 85681 48023 55619 31851 23344 52814 86887 49279
38468 81137 55982 51956 36995 95094 10393 37267 80534 51139
49451 62204 30690 15476 70081 15852 30211 63544 32952 93909
94390 30769 84980 54963 11157 06765 99121 63179 73293 90191
17380 47114 91226 46437 07984 29319 59815 35324 72646 06436
77585 01014 64882 84474 41839 41322 05272 98942 68082 98595
04659 74534 07206 39378 31179 04057 58859 15020 82082 51277
04453 20434 46278 07388 08226 93192 68532 55769 59813 20135
51272 24747 56770 43682 54922 33014 50452 85050 82708 57428
03733 26547 60883 77850 33960 20128 50285 78727 39616 14425
50194 12099 34095 17405 80405 51717 35058 36870 52461 92965
82778 65972 65983 78270 85946 05938 91043 52685 18333 43184
22498 79334 14786 23020 17239 69419 39974 87116 50295 06451
28317 66932 50710 69412 18556 50283 03149 84534 31380 63248
26164 60378 63562 34591 63057 85892 97035 34888 46282 96159
46347 07555 21307 35499 92930 33951 40902 72620 79629 99756
65767 47519 63915 54805 32445 54795 53232 83557 74455 93083
70909 28419 07596 35289 26077 33058 15333 99307 86021 97951
95233 23925 74425 65309 52365 79571 43915 75586 50609 68640
96371 62771 57822 95034 49426 80617 45778 07641 72584 77031
30838 47420 41427 58785 66277 52794 83299 13755 22212 03027
12952 82861 14058 04278 81558 98904 65465 48013 87552 34488
16661 96481 22709 26198 14142 74913 51926 67260 42650 75154
50137 85817 85369 00413 44777 51063 23290 05800 37267 74374
09660 14372 01933 97660 80478 13330 85801 86114 86962 60101
57716 67526 60920 52958 80209 85385 48973 45882 02558 57931
76564 12352 98473 60345 27687 87741 96863 72283 51278 45028
79083 57920 30202 83475 41139 70707 73778 35005 44270 00020
19774 17922 02344 01887 56812 92696 79505 80995 03124 99482
96520 16146 02587 82063 69244 46353 23989 27903 27657 59785
74446 79011 88909 52712 62928 93286 82801 50671 74805 61038

53143 09018 43380 06375 83434 35068 29325 08417 00000 +++++

11076/9164/7316 kHz, 06-08, 1015/1025/1035 UTC

71542 88378 61331 73493 14011 53630 54388 84001 48823 19813
49712 01736 38265 46962 65532 83047 65149 29391 49647 23150
61665 83687 38203 43780 16456 27842 70053 58697 70848 06166
30101 84197 40188 39696 20100 86838 21205 06788 80328 85558
71354 83555 10574 50372 71064 98874 63883 64846 04836 83619
11496 44520 22121 18823 02403 28480 63933 12457 65987 86262
66111 59506 31151 09063 00000

19871 01970 90637 84846 35164 32739 23736 85175 03853 75770
58594 66860 93685 54147 07385 49534 71649 21923 10951 65313
12853 02271 98317 00124 25908 08157 58809 98019 93262 37722
87693 33170 49898 61556 91305 79213 48853 44049 62576 30668
87000 66023 62913 56067 89511 40812 71362 87536 76453 40989
86998 76468 59948 77927 95464 70012 45342 01376 35625 88041
34810 11249 27238 05302 56843 98802 45610 68422 70050 59403
54159 02476 14715 44053 30826 86780 10542 41882 49262 04623
24038 10782 00758 96595 53950 98369 67810 72241 08214 20477
85305 59675 70844 89334 50229 97893 82199 10097 00000 +++++

+++++

11076/9164/7316 kHz, 07-08, 1015/1025/1035 UTC

00000 +++++ +++++

11076/9164/7316 kHz, 10-08, 1015/1025/1035 UTC

88201 20062 66151 26967 89923 59389 06518 98129 45805 06229
13331 72503 05451 74496 60633 17641 68322 44978 44711 51766
84493 37831 90361 93861 98852 02381 43587 45890 55957 10123
80405 55582 07719 61900 86452 33228 91108 45172 87082 20908
68062 02318 32641 37602 44791 95911 68595 48621 12670 81912
45227 32788 77887 26700 46544 58067 20661 28891 43178 03264
10202 31886 98753 31706 93848 38068 84747 61199 59532 60608
83195 57849 43268 73778 21261 19695 99671 47854 93358 84411
85072 79146 47340 22280 16077 51757 44729 12836 46588 91332
69399 28652 80472 97158 92564 74694 62055 63397 22695 56668
11638 25412 80926 76814 98217 92139 06650 80586 66612 50430
22950 02638 61154 52932 16614 85563 13162 20999 12364 69841
84367 36959 46017 78389 83486 89329 66269 44204 98119 04281
19764 54486 09181 85857 99162 09724 80018 30379 58882 21144
37447 00307 28205 94984 86849 68528 764+4 77019 28555 68985
09749 55775 67668 14586 04613 47874 34553 68345 07112 13952
58133 78676 53238 78566 59228 14788 89598 52561 56088 63113
99312 81296 99320 70714 62773 67204 78405 46588 07961 40094
66978 56834 29988 73652 99066 74592 84576 71566 93473 70717
85148 71719 68498 56101 58212 41886 14163 11602 36744 65373
14161 66502 96236 40035 34693 11445 63119 39106 22384 56775
50225 07294 78470 72230 98995 90551 01450 68919 33114 22990
15365 09521 53247 19350 25932 57639 27595 46483 71674 02266
57921 72269 62279 18268 25766 15414 21335 48854 48516 44566
75655 20950 00031 00189 58379 29418 75500 37612 18018 51070
05242 14729 50653 74390 47089 72749 97462 55933 12105 83458
74770 39306 03265 61419 28802 97694 71824 64550 32329 85859
21052 31522 65405 12539 12004 29411 47367 69207 51043 10036
12286 76109 63789 98431 45077 31526 85168 61886 20432 75189
20276 32977 11768 01812 55720 85058 62396 85629 26148 83622
36072 01940 65626 61972 89132 56530 98583 94655 31407 58967
49977 67089 68078 00668 79399 64809 39691 23687 68791 30790
02494 91177 18453 64262 16298 95434 31048 59483 32046 64483
88283 07874 96271 53138 49952 11978 14646 29473 30022 84679
41787 92631 29467 32100 85331 82934 30527 43635 70858 70199
82076 37555 21614 31229 30793 35605 67302 52389 77818 65051

27045 18226 65593 11607 71950 72060 24554 71665 80068 59481
34382 77303 55105 90695 79490 92456 01103 82662 03438 03743
70256 66948 91954 54336 26073 74237 39267 94354 89037 31452
77417 46186 56999 32395 73250 08189 17441 67873 22770 45221
93835 26229 97540 39408 93273 00218 22839 99613 47548 61170
92212 53032 64875 86382 48169 67353 34460 50660 83658 76926
51071 17963 44042 11369 51830 94084 34241 50049 82388 26307
60748 50894 34693 60955 63188 26940 23517 11437 00000 +++++
+++++

11076/9164/7316 kHz, 11-08, 1015/1025/1035 UTC

28435 33964 57234 54672 87049 98733 50388 21173 94203 62753
86642 57718 25860 28471 66386 82046 24689 54140 80381 12019
00000

20725 71383 96945 80048 66888 56950 07797 95788 84943 03672
21980 61274 43705 46617 44789 27749 98283 30843 24045 21992
95937 34413 33931 09232 09368 28623 44860 86231 20892 92613
65310 34232 05935 24576 66581 86454 89270 16717 26384 89837
72458 86189 52230 65698 55910 79158 70533 99010 04016 90208
92374 10978 26780 64266 91867 94604 76400 73226 58055 17931
82218 84478 06281 24641 72493 63514 59969 86717 56427 77799
38754 88832 64879 94109 13896 49170 73214 86509 16912 06356
54713 97156 12380 27190 37987 17133 70826 14873 66837 79483
02660 22397 85990 81641 39071 00811 01150 79446 70846 37027
86803 19920 81027 60876 40220 05011 32354 26081 05078 03474
95436 94839 13157 53089 28580 80722 17535 20393 45209 29546
15726 10125 29833 42928 86200 41561 88473 74201 86716 33933
44514 51384 87906 68117 15886 06885 40558 16780 34547 18635
00024 60165 94180 92330 56190 13145 00000 +++++ +++++ +++++

11076/9164/7316 kHz, 12-08, 1015/1025/1035 UTC

36988 68815 44090 37807 01327 59729 11467 72207 28396 07822
02671 17014 71645 96624 91792 99775 29347 95115 86777 50538
78260 94769 58454 65699 86678 43587 54416 96189 49077 88030
52458 33404 09513 58808 33254 91322 65989 61449 76950 08265
72968 57589 13389 16706 84207 47929 80613 54598 03123 92779
71377 16640 32854 31156 72319 68907 43225 84325 25505 75323
96790 54785 67022 09367 01150 56573 22309 49474 79712 37871
62912 81573 78117 81825 54355 57187 48477 96538 49810 80532
78647 30144 09258 23064 58695 71924 48819 88901 01772 25405
49956 79568 61562 64348 83218 31484 13500 07606 26235 24652
91948 73746 80618 85970 00522 01415 17500 35616 37733 46348
06352 49929 05175 90983 06802 39233 90390 27611 28127 64050
41655 00992 86105 38111 76825 21394 11925 91637 93472 83962
92820 93308 72459 55391 49149 54352 92169 13807 77567 63209
95566 52813 15020 24201 77274 85637 03206 98632 82860 10311
58228 71781 37518 21817 75105 94200 46329 82158 21830 70773
33293 84264 02671 95960 11321 70686 95396 58680 00364 93013
92114 65248 35881 22954 98411 53825 34826 51009 70480 98806
11336 33685 94922 28587 59322 75172 40916 05150 44133 54444
39435 38896 70498 33696 69200 37184 18922 09071 54064 09978
67718 89606 01509 81076 42892 15351 36933 78340 63022 50562
13446 01365 71362 12955 01820 90021 72336 24913 90314 42332
14610 97613 49054 55078 87937 84002 38636 85620 25962 61548
67671 58329 32162 30724 28932 64098 71130 40148 68806 26348
92368 74323 69738 31979 78795 64906 50343 50702 37144 11456
12886 91185 72444 22591 92813 67451 13771 13491 90020 73970
83455 20684 86545 92883 26934 20063 80377 81782 45436 59053
90062 15510 98682 38882 09803 80382 69805 07885 19729 44307
09643 51782 81031 51209 02634 91865 70652 13210 21474 27032
35206 99001 62727 80608 68830 41850 80586 37886 44651 15661
60962 85333 54547 52553 03096 87389 36900 00372 00874 61801

97025 43579 41039 39433 49963 35965 60489 19486 40322 18611
29833 56060 18857 21540 55416 37010 80478 72502 16984 41017
93372 61326 83176 83822 73918 33267 72050 89561 87100 09806
48795 48127 77093 60321 77856 44515 57706 73077 71632 71066
17387 98974 02947 58570 18453 66475 73472 87144 95259 91175
55303 62841 80971 28433 47857 70912 17646 42502 17302 41673
29289 90606 10677 89898 62606 45400 61926 13694 25098 04235
31999 63781 75223 58683 50227 19120 44284 22762 49159 29826
94750 43268 10035 13308 44693 40702 61096 14562 13013 54171
95917 66565 65162 14403 00000 +++++ +++++ +++++

11076/9164/7316 kHz, 13-08, 1015/1025/1035 UTC

83914 22512 50853 14342 44575 71369 56241 77787 40999 38521
71028 40234 19640 23407 54455 50152 37398 27084 79981 00323
21396 72313 54255 76775 16572 13838 22099 68852 88101 02112
72633 34447 35687 50755 96718 33878 39890 59402 02118 43234
56343 81593 35566 17569 36592 48905 59910 53301 61674 87322
55746 66015 74566 84787 04088 16824 08911 30253 36862 15059
00000

80631 46317 53722 43531 77180 24818 99041 27991 13419 57442
43128 74345 89524 54709 56770 22686 57319 19094 70921 83633
61307 75616 26356 24166 27793 96987 73189 48194 00237 93124
13744 34531 94196 92972 68451 89940 41914 79421 43128 61343
90169 44628 74866 50680 37308 69075 00114 51423 62501 11624
76466 54198 44673 43949 53209 79653 00041 63224 91959 85580
96778 52977 37930 17072 01911 89435 42027 55234 58814 63618
37576 98670 46616 09117 42002 62413 81285 11434 76329 60187
46783 37894 85099 08953 29222 97393 03963 44441 72175 89867
07730 37016 41903 89630 22127 12135 88554 03400 76767 08790
46218 49046 50021 25113 91381 51463 39346 23977 23581 16109
00000 +++++ +++++

11076/9164/7316 kHz, 14-08, 1015/1025/1035 UTC

00000 +++++ +++++

11076/9164/7316 kHz, 17-08, 1015/1025/1035 UTC

25493 62200 27641 75344 96152 35701 56219 23904 68757 55088
71589 76015 21154 53902 38005 10737 12572 22996 58242 59505
62965 50984 94591 04837 15264 79242 62599 42797 16466 51145
96001 01427 78526 60226 06294 32310 04958 26956 85356 17485
94098 58819 24592 58858 54974 73379 48999 42339 96694 89020
89629 93861 77328 13048 42857 69494 23182 81848 89904 46810
54426 32781 75060 09724 78013 12495 66022 43969 33812 51365
44811 85404 04905 58721 02687 88346 27980 18574 37500 06102
64765 90506 76939 00899 20426 45440 76071 25403 19880 90944
62655 42994 77953 65785 28640 79009 24333 08398 91286 20124
69226 28983 72363 04068 20694 39889 68847 66861 89574 23993
13554 39757 42944 45752 49163 13075 92050 34626 64047 09124
25656 95534 63360 31387 24731 26074 73819 82170 19426 45140
05609 65888 74273 62679 19857 20190 12548 45230 75113 42095
15721 56958 51269 01349 58952 80870 74356 58160 68555 49878
90659 27529 12375 42432 63588 57338 59003 22376 91738 12408
66795 27739 71576 81691 88590 38135 53197 50799 03112 75464
62586 07053 08947 17606 88817 69235 42074 29782 59634 59239
02860 43285 53844 57803 03460 36262 23973 11508 71579 96230
27600 83235 71507 69023 90835 63271 28377 23843 52352 83238
66591 89125 61429 00054 98341 38882 28433 42085 23158 34224
51177 34708 24443 49746 65602 47445 73900 39465 94206 29872
79830 21993 90668 28478 40190 89635 04098 01681 86392 71110
11354 75160 28756 02558 90868 04727 39556 86545 36411 38880
34613 43745 34226 98274 39347 86974 51995 14265 50246 72292
13049 93715 27688 06826 54271 02274 81035 18030 91134 83283

31961 14055 38294 54532 66936 89919 59193 50015 14806 59168
43112 98914 10412 15705 33086 58959 30177 55494 53146 46383
10610 02807 08318 29638 85649 90708 55800 79074 03796 90473
70783 89758 10970 69608 55328 19632 10027 83181 63753 10176
32868 88134 42956 81795 86088 15278 11123 21097 56101 38643
23244 02237 84667 96885 96897 09552 50771 46432 96706 53641
19788 51047 00941 98095 45867 37515 98676 39051 38485 72125
90963 04774 29080 37641 94428 67443 98739 15450 70765 84332
52849 02571 30538 10573 53655 18218 84731 50680 46674 79599
42505 41052 41889 51641 78567 80595 35665 00330 18619 51693
84328 04346 16298 98691 65345 04697 20074 56089 87026 97017
53507 43626 32714 96239 57339 70450 50375 28305 66827 15560
23543 28625 22775 76694 84541 51962 39687 04874 55935 23422
79497 66775 31140 85252 04298 02121 30128 19125 06502 68277
91169 48594 39900 17403 00000 +++++ +++++ +++++

11076/9164/7316 kHz, 18-08, 1015/1025/1035 UTC

25983 81280 13735 21989 48861 14675 43196 19151 70964 41708
36255 50365 38940 52725 05152 54433 09855 23374 54668 62965
55222 53471 70191 09413 49881 30179 27346 45999 00435 88932
90405 04508 92926 70571 91650 61852 64440 98079 08884 96369
28310 21414 83263 45771 07641 03822 44671 02693 56806 48102
36773 08785 75627 86253 58984 33267 45918 80928 67512 46895
45073 12147 02670 27282 16403 47701 34644 56496 00887 20690
44913 96884 60044 62613 85494 56060 44608 65482 83204 76979
88676 71357 81141 14065 34058 12776 34546 81288 14457 52491
03253 83175 54235 95967 07912 64651 61389 75061 42164 40671
19469 26341 57963 91580 08099 12463 66226 18107 00000

91650 98315 69294 11095 72935 62744 21973 29805 56235 93922
80856 87128 97139 68606 98740 67146 91512 18439 70441 01914
64551 68983 96698 34763 06030 09713 02878 57523 75176 12140
98379 51367 23621 38288 87725 85941 09836 06673 69229 56502
03529 07994 82208 63714 03408 87724 88668 65818 16769 37776
00393 57849 74325 64440 87390 19055 00000 +++++

11076/9164/7316 kHz, 19-08, 1015/1025/1035 UTC

41254 96505 13535 10970 26692 08623 62731 19820 84409 60130
12902 23973 22352 89171 21827 22657 63307 17859 15971 02659
88549 64260 19136 25355 91741 05645 37469 95471 41522 85191
61747 16290 76233 79343 72892 60942 79201 67991 61639 14531
08031 74677 98308 66715 76332 69004 13608 59490 11342 48443
76412 19821 35840 41720 79448 31824 47837 00974 68831 28198
96446 74867 78383 05573 77383 79850 54679 93470 96537 11746
83744 31571 75040 64861 55360 34967 94281 50809 25897 52087
04301 34215 65625 44995 43996 27510 01429 46725 46584 11999
90875 75367 28761 77375 88568 09573 86977 96891 90718 55172
49293 80351 68876 57599 56229 72126 28770 39798 69059 86382
55166 70306 28989 96695 28713 91206 15641 22252 25688 60623
78301 77817 36596 89457 38356 79664 64555 77055 86350 24645
89396 75479 22125 84587 08432 37086 11446 83226 89816 25095
57585 47829 99449 91822 11271 52718 87343 54294 67462 96879
44402 21894 22372 82841 65552 55759 89184 88998 80160 64600
95899 52598 35662 66634 13749 05546 45365 72313 89605 30231
36338 67552 80844 27569 58345 02121 16078 14429 39747 12907
30210 92643 01309 36727 47240 56795 63865 92375 09261 32953
10762 36601 75087 65556 91027 23694 36948 94628 74195 23377
28684 90518 92736 76680 23882 38334 33013 94499 47401 89285
60716 28506 48696 21101 91709 69122 10413 74715 44216 50221
90662 59416 33301 65260 22435 43631 93564 24528 18565 73554
41006 08185 55718 86783 09977 94801 35809 13170 26174 70069
48294 80061 01606 45368 81794 64126 62465 40896 58460 56951
45852 13026 89531 36588 26280 30597 75527 62252 57911 29816

99504 34351 43439 02456 86811 87030 65585 97049 29795 05432
42113 37754 00875 84837 90333 90580 02443 73904 12003 31673
27015 69164 34580 97328 26068 52982 69766 20439 11015 92157
75264 83051 34736 39359 30703 39723 27127 04578 63651 91370
83074 88790 86678 14290 26321 97010 31379 74042 97640 72931
90309 78893 40772 22329 02772 52483 84539 17425 45388 30430
44606 99400 13388 10542 93290 21233 03565 11333 70889 98055
34827 18525 36944 57227 67278 24224 84874 05290 05785 88465
68449 54019 98934 77807 13488 72730 69359 60654 13272 59054
36335 64023 31074 45346 16603 21405 58260 82939 14358 66442
01389 71407 36326 52083 96761 25036 92886 99917 75841 93695
71156 09377 29994 80289 90992 81479 47983 21970 79839 36821
24656 27320 27362 32486 64255 86671 05797 07573 26801 97756
66974 12022 90975 73887 51926 98430 31950 26824 74036 81544
37586 41562 61660 95111 11461 85176 71158 00787 36140 16958
06270 28774 95143 91986 04784 54898 77046 75364 78418 43788
10132 09277 16872 12854 01064 20425 00000 +++++ +++++

11076/9164/7316 kHz, 20-08, 1015/1025/1035 UTC

98319 95682 02975 22390 62193 39627 67727 82156 95253 47065
70568 99527 72440 57216 05229 06312 43594 48275 82576 31334
00279 90236 88494 58584 10266 36099 33661 44836 49394 99888
37398 07680 85469 94932 12804 19899 93913 30827 45330 71135
09827 92531 82013 82778 46176 50028 73532 87004 32777 71995
36289 05930 55761 41905 26689 91781 02230 00016 44829 14059
39758 59673 09755 04587 85459 71367 73495 96430 44287 32976
66048 17592 21257 69647 88519 25421 37283 21077 00000

74694 45675 74915 48977 64480 22371 10783 58129 98666 32213
38460 08274 05334 31120 90050 97494 37772 74869 66096 11785
17317 02051 94095 36361 83713 54618 75003 06936 45178 96975
22413 24354 45363 19532 24092 81053 89403 37674 80582 72776
96223 22080 00526 93975 69313 21323 57420 40347 03139 62691
37494 66927 67390 42177 33372 75197 36252 39553 63237 27631
54869 19495 20165 13111 60222 04666 81318 11678 98571 31721
31704 32015 06682 26152 82149 20143 48993 56917 86223 62725
27947 56805 85758 33454 09637 19440 39681 55934 31981 08901
15823 81507 87602 42868 50412 05459 98602 35246 04933 70036
25420 22101 00000 +++++ +++++ +++++

11076/9164/7316 kHz, 21-08, 1015/1025/1035 UTC

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11076/9164/7316 kHz, 24-08, 1015/1025/1035 UTC

66538 28335 24743 77427 86686 50162 18520 65520 03179 12671
30794 23112 60022 80293 80775 06477 14744 96412 39060 12032
41590 68070 94936 31602 01609 85151 96050 69502 21820 84979
15121 94876 50654 98254 23400 27726 81846 37281 75550 82069
63977 12418 35646 14664 37845 87684 98958 52737 68854 11473
89251 99153 66616 83282 36232 38464 08945 42441 62878 92273
12424 89725 37311 97354 16971 77837 68908 04963 75079 31658
53340 24773 67372 84227 96221 61887 79277 39391 70063 20341
13372 97030 84213 71556 25184 01840 72473 11173 01083 01572
28075 52691 20269 25694 40713 31375 68020 20392 15311 16841
92397 00858 77218 57781 21603 06800 93514 07250 84159 72119
65121 01952 99116 44674 69394 93975 28460 17089 57898 58408
08919 54524 39042 25256 05353 30373 00264 09132 52906 05789
49459 35125 80127 14008 80326 84303 30222 35394 91332 07283
22646 74136 12979 79295 22217 72557 23052 95207 07928 23939
54553 27911 58661 69841 25990 98529 97983 92812 48717 31884
65206 40461 91019 95644 04907 41802 03619 46614 92093 01835
36292 32578 35203 85276 00293 23160 24117 25392 56259 68111
15382 18864 32300 06487 71831 92627 01494 75137 98786 53626

76634 89950 44019 57404 92469 98287 53686 56491 95863 26046
01396 14509 57825 67793 32610 96931 71533 93397 91570 74457
12899 69607 22928 99896 68812 20001 65262 44551 62742 71764
78694 04988 32394 62713 73757 16176 39099 07008 33730 31892
13640 42999 47617 58363 68176 11646 95956 52060 28984 38922
56647 17592 69669 56547 17592 69669 20680 22987 66635 49576
33383 51100 23841 87034 19162 78956 90636 22184 18618 84142
02898 49012 49819 72612 43383 21340 56934 15561 94910 62401
76916 76647 45179 32739 97708 96726 79196 36080 06376 28290
20240 67888 50625 36804 05290 36283 62141 11131 05872 10006
15171 50214 30252 73124 18801 18222 67905 91167 66372 85341
62225 18367 90448 96399 22372 00707 54451 75803 71881 63431
24861 14782 25144 40252 54763 59577 57092 97557 17674 98941
92318 37484 95163 70092 38759 83962 03141 08901 32387 74941
96756 93147 47241 81280 08607 52284 37977 88238 99917 42134
07118 00495 29417 07969 14204 56647 69561 84406 69024 64117
24815 05565 76120 90403 31670 23897 22738 71620 45089 61166
27435 24260 41063 39982 91513 71113 89972 69339 20472 17292
80426 82602 07670 37278 98292 51365 97379 58954 90577 23629
69425 55540 68867 59732 12591 81379 31996 64478 78983 12506
12654 38879 36540 77940 77593 99981 61870 92639 36149 42185
40616 28049 36737 38504 67518 81190 56035 05214 63379 28215
10525 78305 51105 73376 45082 75203 58019 29346 78308 23419
00000 +++++ +++++

11076/9164/7316 kHz, 25-08, 1015/1025/1035 UTC

45140 44313 65491 15450 98100 63265 11749 08025 86461 27716
23319 92824 47043 22822 06233 76239 68026 45617 01298 15513
76617 12087 63223 33090 04544 53402 85537 59967 98571 37253
50999 06495 68226 75213 12179 84041 87914 02081 31912 25991
95620 38128 38293 81482 55380 70199 73913 80348 75700 12591
44026 92676 01137 33661 93321 31441 19194 59090 66002 71637
49749 87747 28850 84359 09179 81089 69680 92526 63871 12026
46881 13782 32910 84206 06694 12768 54290 57647 77984 46590
94910 24081 00000

69304 51108 80144 71126 08677 02820 96422 58611 63976 05695
27760 25387 74753 76414 27159 59482 71276 91883 81949 86594
02211 71378 43280 11262 09270 93559 29916 29629 59778 03032
79795 80981 73081 86142 47782 30229 01738 20711 73036 98545
53443 29362 64462 84330 64603 91167 77652 41694 61509 91275
81777 08651 70050 13213 39852 02207 59898 03550 50821 22527
34098 63619 26894 33373 00011 47974 04577 11000 82537 74266
12830 25071 00000 +++++ +++++

11076/9164/7316 kHz, 26-08, 1015/1025/1035 UTC

33030 63969 45723 06027 71395 73359 63210 59717 38997 46475
01103 94637 60314 83811 27379 53192 34945 96225 35659 75134
94925 85279 15656 93575 03551 31097 61226 18994 94138 79932
76961 15910 72173 48632 69236 01925 29263 88179 32686 23822
42351 73505 68018 90386 56623 11761 92116 66673 75537 86231
26361 59366 06427 78082 74114 47957 35098 33127 23308 41400
27881 65800 35050 64948 84549 17524 04223 06849 90561 11659
02978 79598 42055 72223 43085 75420 42029 98573 18066 20688
91163 13217 11049 58941 21695 24972 79281 17223 47803 74637
51248 35384 30939 55374 97314 63083 83524 24977 59849 54137
59478 52231 53758 12923 04990 64543 73358 72528 67984 89013
66543 09316 89719 04174 62172 23604 26948 44541 61612 41155
78079 25196 30386 15143 11796 78573 50850 33302 21528 20638
21848 59937 54263 88646 16268 67486 87102 17686 32461 37315
50005 48155 00428 34449 18168 81403 28742 85908 22466 25692
03126 17349 51404 99683 72623 27685 42998 85630 84318 06402
90050 49464 52508 23214 07227 69963 73305 44788 33398 44190

20575 58194 67667 61388 84159 05793 62529 62520 36333 61226
22594 27642 37403 01212 82313 58292 16426 52833 61156 47089
87939 20994 19648 51728 90687 25742 64745 15555 59234 04143
77947 01905 64446 56395 64612 34412 83742 40864 47891 60452
87079 47735 55736 79920 49589 05966 74411 06527 26818 03222
66939 53806 53500 23502 79936 63013 51802 32107 87254 15105
59979 62677 43883 93990 17383 85957 48542 93240 66742 64992
38401 83439 59681 26432 64362 82367 76390 02641 20359 95206
95391 24297 25083 16953 74346 68160 79594 14215 27832 89710
49254 28612 13029 95330 43400 68922 59255 33735 91222 84199
02287 11320 37268 35033 09401 61120 05002 05138 06076 20084
01884 20462 40297 94318 64382 68008 45387 17020 66364 31542
87320 28764 39306 86386 07433 34854 77754 20486 96496 19394
28481 73926 61068 20800 86766 14099 68059 98420 48248 88696
78476 44953 89773 23735 06249 24358 77696 58769 63096 39938
27050 36515 75371 62293 60035 89050 83803 71810 37267 87781
62103 95409 60207 49372 15339 42201 68231 14813 44044 67762
78757 43824 84986 21718 43879 91781 64523 58299 21948 61341
25508 14592 87518 45968 13653 86134 28129 07539 34317 54578
01321 55220 15633 47075 50354 17801 38915 32103 02061 26665
22305 81391 95247 51611 68563 52660 13116 56668 12962 72839
18119 68144 32218 26464 12699 72046 00395 78938 74336 83099
02712 89344 38359 52526 43205 92492 26937 06787 07175 54896
47715 34459 64352 34362 10500 63460 23725 97876 35458 95777
75964 77487 51258 91910 84388 68855 06583 22209 10390 02168
43469 27293 84285 40112 05890 54736 57503 82577 82033 64218
97059 82786 03718 26433 00000 +++++ +++++ +++++

11076/9164/7316 kHz, 27-08, 1015/1025/1035 UTC

72207 17073 82748 50807 79174 34746 73105 51529 22287 21950
37942 72812 79344 86113 81557 46969 40977 00774 48569 56731
94063 41413 96832 68594 32199 56545 46627 47514 72899 72496
98306 13875 86232 55309 35581 28694 64567 78222 56647 17981
88113 68145 00323 72189 65960 29578 59397 81715 57283 69411
98379 94356 02420 71040 17813 05692 18489 91233 32381 18298
39257 78195 54948 30763 03927 34253 03765 42413 24532 71609
74988 84703 86646 34610 47739 15208 63070 86938 13844 27079
00000

01817 79923 79900 70374 17605 62671 30534 97369 68502 30631
07136 11569 31287 82713 54335 61486 50372 25138 99005 35366
11382 83070 27207 39662 02328 50254 51080 27234 23318 81306
89107 92430 30741 56393 08203 75259 26861 72941 01046 41827
30759 44097 97109 33233 91553 08607 30823 00108 29859 81811
15292 64986 18387 02442 95028 79700 37655 54903 76119 69976
67732 71737 57276 84425 01949 45941 10201 90122 93524 07843
82701 81948 71037 46214 23007 97892 83687 78306 48701 57497
62268 98505 08735 65638 06815 60280 11927 48819 36839 71121
20425 16181 65101 05163 31526 62394 80858 63155 96329 54648
53519 34502 48634 28103 00000 +++++ +++++ +++++

11076/9164/7316 kHz, 28-08, 1015/1025/1035 UTC

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11076/9164/7316 kHz, 31-08, 1015/1025/1035 UTC

35857 74653 17183 54902 05599 78304 06541 39139 23708 01819
30640 00786 80147 37463 38101 94328 79362 42497 65382 27928
66421 38624 77824 87334 40365 47491 90851 60688 71949 48145
01051 12634 67970 67414 81792 81192 49359 39127 23094 95815
35232 93120 20404 40080 50088 59971 42011 07442 96337 02385
29736 23494 59346 09182 12630 33171 37194 12828 38335 76325
12323 16422 51818 00124 07267 41105 76147 81700 91651 29817
75012 59496 32658 68328 01667 96729 06119 09511 63986 25432

10454 11750 60328 44493 50625 27470 65875 70137 84299 02689
 74161 62289 47398 73539 23453 75248 01242 70713 62688 06122
 68450 67742 36650 39447 49812 34070 95069 11444 39291 78842
 55333 42331 79365 96362 73504 10151 23890 49142 03322 64529
 00663 49483 47879 03823 90884 25541 33667 64070 67706 82788
 61665 93212 61041 96838 15173 08995 40833 98535 29067 63996
 35971 37290 50170 66231 31039 33555 43422 28756 08083 56411
 23539 46706 25577 87183 16849 25228 78318 70550 &8294 06714
 94783 55445 51142 70794 96024 87599 50557 05531 80169 71479
 39926 73222 77834 30740 65428 19290 63754 52219 02053 97659
 77458 58054 57913 11090 18652 51324 46243 89873 34483 21177
 54744 57365 40908 18358 66995 55748 45310 37084 15595 30507
 62586 64216 71727 97019 41871 81640 00852 37723 46100 32813
 39177 03275 51586 89410 70640 16162 59804 79002 09049 00189
 38576 59710 15096 84275 34827 52763 02916 54019 26124 68913
 15888 49438 03159 89626 76362 32349 00385 89003 38996 71813
 16983 07360 23921 21078 95344 12382 58729 84471 49268 08879
 86064 97663 59038 82921 13001 69756 75601 91462 10402 60614
 01002 33269 89852 91902 37274 62149 13536 15234 20988 28402
 45230 85902 85616 59428 97104 15608 18929 15434 52001 02626
 07587 81173 65900 62853 86140 79666 80234 10181 32603 18819
 98770 59604 77792 06898 08717 51539 20635 97787 50765 20759
 66610 51973 67735 58397 31532 24175 86534 40466 77841 13592
 13093 21297 75616 37673 44979 15375 05467 15363 31384 15988
 45517 70757 35146 24121 09658 93107 76521 86052 29252 14110
 63378 63071 95489 88414 37505 81766 04569 88302 91715 38315
 72903 48446 37448 55218 14529 21725 27538 13907 97913 31991
 63850 11676 24342 34766 44468 16359 95072 21769 30119 17207
 59453 30243 34520 95382 61179 42989 68345 62539 24883 90078
 91492 40881 50242 88148 53328 83186 05804 78236 25625 56191
 39688 48092 57844 35807 49386 49894 09489 87576 77822 49315
 39174 30829 27876 66877 55142 09967 12544 97518 56875 21310
 82938 19371 22523 68954 01303 27413 21805 48060 51236 53681
 59099 79032 02312 29413 00000 +++++ +++++

F02

14983 kHz, 11-08, 0800 UTC, MFSK-4 150Bd/4000Hz

F06

Link 00000

9362/7984/6802 kHz, 03-08/04-08, 0800/0810/0820 UTC

11100 00000 15478 30055 01399
 11863 59648 28052 94142 53385 60669 13008 82142 29304 18962
 93561 08404 68206 02139 06196 22406 27818 25469 35427 62622
 54985 70518 00786 60183 47703 14055 95067 98869 98883 65637
 66045 92408 26552 37337 58811 64983 20152 94023 60972 45904
 57654 57655 17847 14377 73153 64014 09879 55309 79639 95313
 09441 12087 76636 37129 59223 47262 97381 33075 39394 47086
 75259 35683 15704 30831 34143 76900 85755 50832 32364 06657
 65587 94189 14975 72941 83784 22072 53999 41812 75299 07549
 81363 80787 92157 57900 44190 54058 73257 32337 37134 02950
 40430 91063 91468 10072 12960 36631 25591 70609 57750 33511
 86641 19163 17320 16831 37924 85608 82818 26204 71815 78390
 04253 25596 52852 18692 55098 95167 20673 73930 93508 06020
 07523 63997 87275 13796 49989 38695 94762 32060 99662 49801
 18972 71407 62413 66197 76948 55223 20972 55137 00000

9362/7984/6802 kHz, 10-08/11-08, 0800/0810/0820 UTC

11100 00000 64852 07056 02739
61069 73946 60026 52124 12369 93526 29884 43922 97475 17531
81592 57692 26336 81301 94969 83020 74386 74600 56678 17554
26520 80168 46819 68705 29351 53808 33040 92955 31467 44389
64355 33688 16358 77242 81854 43494 57706 49372 88497 01897
51730 09915 45178 64413 06266 24295 85243 03908 91273 45507
64659 30164 80455 40966 90006 98622 38677 48360 91497 44207
34880 58945 33201 01199 85160 51719 77656 95067 55721 26910
47078 17230 80370 12222 48322 18640 72257 40271 53813 83175
34534 20645 55617 66742 99635 55041 34840 13040 51852 68894
13557 81922 12898 57954 81436 51302 95149 73244 14267 78512
52253 92827 26562 32096 81775 53835 25438 29929 59601 43183
57944 44639 10749 70414 69041 62236 46305 71113 12411 04914
21159 14323 81285 53942 92217 12399 51481 33596 81811 56746
53831 42058 75950 27874 18197 40233 12133 53200 56249 34403
36400 11047 75211 13678 34308 04274 39735 28157 65520 51963
24124 18764 56691 72624 22064 34666 32349 57326 06067 99238
88445 56218 53807 10498 38275 26863 83541 86941 85443 17822
65793 94743 03569 85939 03502 17231 27418 70746 97811 52578
85149 74433 41693 50671 26359 20836 08585 25060 25613 91844
28238 00954 66160 64713 66967 85185 33504 98666 54469 69083
73522 44273 24417 00198 94836 74002 61017 83803 20095 57418
68700 00138 15874 29431 07150 48280 55881 25058 58853 52650
97144 79126 21352 93025 73881 14349 41394 44039 38722 66223
33164 35085 05996 18183 47784 66571 76744 45436 86271 43461
50169 90936 73139 12032 51187 21923 32834 10797 28790 40456
36187 71526 04891 46404 09077 31301 78343 76303 20483 41539
13832 66532 92125 84933 70302 14249 96868 36237 48643 34507
38089 56271 00000

9362/7984/6802 kHz, 17-08/18-08, 0800/0810/0820 UTC

11100 00000 01563 14057 00979
79373 09065 88838 13456 36116 26389 83262 23321 67796 64839
17064 06619 88466 52662 96394 93699 22796 52818 09173 64757
49758 25204 54960 92966 87058 92494 92904 77947 27207 64279
81187 36750 61190 99193 06411 44547 50691 09717 26363 42222
34765 39345 74610 53034 81934 66803 00324 75561 23634 17007
41817 45091 29930 83435 57200 80661 13477 91637 60603 59937
72621 58517 37408 89094 09611 27123 36914 59923 84835 81607
65889 11318 93041 72046 31437 37357 72458 03818 06609 09141
82768 71211 17222 02598 12867 39965 73291 49430 04341 08420
93542 53388 01610 01966 96415 57095 00000

9362/7984/6802 kHz, 24-08/25-08, 0800/0810/0820 UTC

11100 00000 94382 21058 01239
75776 34712 01290 77106 12938 11407 03156 98229 76644 16003
34491 86820 29846 86667 78199 92719 73381 60775 62037 34184
70873 93133 18526 41166 83880 25491 01196 80335 15736 99487
18137 66516 87517 30264 68750 90251 94589 82891 94676 16159
17140 18825 80808 31773 83158 04569 67353 51576 07309 99727
58854 05875 54093 66645 41128 69242 98794 68813 42053 08192
84591 50231 97136 52773 99316 12920 05809 21792 20268 34757
89373 56320 00536 94843 86563 41199 95264 98563 47621 19222
51296 19552 12859 27669 08627 00733 86628 11904 87119 81638
42635 95705 56912 44176 21540 13024 15945 94042 06787 30846
23064 19972 89579 17872 60121 98001 58971 38671 21523 32947
77974 78018 54650 54268 31657 25090 99599 08519 58138 72213
01678 58121 00000

Link 09777

This slot usually sends link id 00000 but now 09777

9362/7984/6802 kHz, 31-08, 0800/0810/0820 UTC

11100 09777 30516 28029 04149
35857 74653 17183 54902 05599 78304 06541 39139 23708 01819
30640 00786 80147 37463 38101 94328 79362 42497 65382 27928
66421 38624 77824 87334 40365 47491 90851 60688 71949 48145
01051 12634 67970 67414 81792 81192 49359 39127 23094 95815
35232 93120 20404 40080 50088 59971 42011 07442 96337 02385
29736 23494 59346 09182 12630 33171 37194 12828 38335 76325
12323 16422 51818 00124 07267 41105 76147 81700 91651 29817
75012 59496 32658 68328 01667 96729 06119 09511 63986 25432
10454 11750 60328 44493 50625 27470 65875 70137 84299 02689
74161 62289 47398 73539 23453 75248 01242 70713 62688 06122
68450 67742 36650 39447 49812 34070 95069 11444 39291 78842
55333 42331 79365 96362 73504 10151 23890 49142 03322 64529
00663 49483 47879 03823 90884 25541 33667 64070 67706 82788
61665 93212 61041 96838 15173 08995 40833 98535 29067 63996
35971 37290 50170 66231 31039 33555 43422 28756 08083 56411
23539 46706 25577 87183 16849 25228 51801 55031 82984 06714
94783 55445 51142 70794 96024 87599 50557 05531 80169 71479
39926 73222 77834 30740 65428 19290 63754 52219 02053 97659
77458 58054 57913 11090 18652 51324 46243 89873 34483 21177
54744 57365 40908 18358 66995 55748 45310 37084 15595 30507
62586 64216 71727 97019 41871 81640 00852 37723 46100 32813
39177 03275 51586 89410 70640 16162 59804 79002 09049 00189
38576 59710 15096 84275 34827 52763 02916 54019 26124 68913
15888 49438 03159 89626 76362 32349 00385 89003 38996 71813
16983 07356 02392 21078 95344 12382 58729 84471 49268 08879
86064 97663 59038 82921 13001 69756 75601 91462 10402 60614
01002 33269 89852 91902 37274 62149 13536 15234 20988 28402
45230 85902 85616 59428 97104 15608 18929 15434 52001 02626
07587 81173 65900 62853 86140 79666 80234 10181 32603 18819
98770 59604 77792 06898 08717 51539 20635 97787 50765 20759
66610 51973 67735 58397 31532 24175 86534 40466 77841 13592
13093 21297 75616 37673 44979 15375 05467 15363 31384 15988
45517 70757 35146 24121 09658 93107 76521 86052 29252 14110
63378 63071 95489 88414 37505 81766 04569 88302 91715 38315
72903 48446 37448 55218 14529 21725 27538 13907 97913 31991
63850 11676 24342 34766 44468 16359 95072 21769 30119 17207
59453 30243 34520 95382 61179 42989 68345 62539 24883 90078
91492 40881 50242 88148 53328 83186 05804 78236 25625 56191
39688 48092 57844 35807 49386 49894 09489 87576 77822 49315
39174 30829 27876 66877 55142 09967 12544 97518 56875 21310
82938 19337 22523 68954 01303 27413 21805 48060 51236 53681
59099 79032 02312 29413 00000

Link 10053

22913/18241/17455 kHz, 02-08, 1530/1540/1550 UTC

11166 10053 25843 02001 00049 00000 00000 00000 00000

22913/18241/17455 kHz, 09-08, 1530/1540/1550 UTC

11166 10053 79135 09001 00049 00000 00000 00000 00000

22913/18241/17455 kHz, 16-08, 1530/1540/1550 UTC

11166 10053 15467 16001 00049 00000 00000 00000 00000

22913/18241/17455 kHz, 23-08, 1530/1540/1550 UTC

11166 10053 25843 23001 00049 00000 00000 00000 00000

22913/18241/17455 kHz, 30-08, 1530/1540/1550 UTC
11166 10053 48751 30001 00049 00000 00000 00000 00000

20917/17529/15765 kHz, 04-08, 1650/1700/1710 UTC
11166 10053 25718 04001 00049 00000 00000 00000 00000

20917/17529/15765 kHz, 11-08, 1650/1700/1710 UTC
11166 10053 63124 11001 00049 00000 00000 00000 00000

20917/17529/15765 kHz, 18-08, 1650/1700/1710 UTC
11166 10053 25843 18001 00049 00000 00000 00000 00000

20917/17529/15765 kHz, 25-08, 1650/1700/1710 UTC
11166 10053 24813 25001 00049 00000 00000 00000 00000

Link 60070

12139/9991/9175 kHz, 04-08, 0030/0040/0050 UTC
11166 60070 97642 04001 00049 00000 00000 00000 00000

12139/9991/9175 kHz, 11-08, 0030/0040/0050 UTC
11166 60070 17935 11001 00049 00000 00000 00000 00000

12139/9991/9175 kHz, 18-08, 0030/0040/0050 UTC
11166 60070 95184 18001 00049 00000 00000 00000 00000

12139/9991/9175 kHz, 25-08, 0030/0040/0050 UTC
11166 60070 28537 25082 00049 00000 00000 00000 00000

Link 70202

11076/9053/7386 kHz, 03-08, 0700/0715/0730 UTC File 44408 (binary contents)
10394/8076/6768 kHz, 03-08, 1200/1215/1230 UTC File 44408 (binary contents)

11076/9053/7386 kHz, 04-08, 0700/0710/0720 UTC
10394/8076/6768 kHz, 04-08, 1200/1210/1220 UTC
11166 70202 34852 03009 01079
47831 82883 83004 46801 51209 72642 63245 90688 11297 12571
41475 80522 82718 24972 00174 58573 01114 84513 69989 39567
22611 59315 03892 25257 15424 62672 04570 85103 82004 57619
15968 57758 85219 81501 14938 53037 76951 82768 63913 59064
52584 87150 10565 84285 79809 35422 45361 89027 75180 59934
52980 86299 26861 92102 18502 16517 86998 18040 74325 25839
82174 24525 98753 02813 15343 02485 02158 52994 57726 00189
61699 16259 54078 43333 90505 56461 89768 64212 52265 78158
93119 07154 57171 50062 71439 02418 00146 39923 04176 25732
27290 90523 41640 85666 41490 91472 82739 06028 83130 26495
30144 95448 46827 00882 46334 09105 00000

11166 70202 37496 03010 02339
32073 80459 78589 42640 16947 18907 06758 90774 32258 59582
85316 32438 49668 15843 31326 79278 34140 21073 29550 19342
22056 13024 22921 13175 20532 24118 32807 38871 51352 94894
94982 15717 87975 52788 22276 61145 59050 23423 29803 60676
16856 66623 83744 55532 94141 54306 59585 77618 97767 32470
20780 86549 12607 34437 53745 88422 14136 37566 20158 41008
13157 80607 12464 75058 81080 83878 23546 86415 29223 39477
66497 78608 40533 63686 05427 60622 77204 28781 83229 29539
12606 16418 57282 92719 60958 59789 78973 09229 03210 66739
78023 55188 32538 41020 37530 42737 67917 43886 70668 47298
09191 63200 34993 22830 32084 82253 45273 09756 46598 65474
70799 65254 67215 03227 28108 70602 68365 82868 05040 95258

23579 78274 77093 22365 51769 74999 02006 65369 19080 73276
03476 30449 69743 36035 80003 04413 84369 74118 99755 72793
89125 85907 67402 97788 64220 93518 73870 10764 25150 42773
64938 98991 75136 59121 89622 91306 52185 76720 14277 72389
19224 82829 13361 80339 70730 44737 72806 67242 54311 11389
66909 27408 30655 06915 94703 22979 20308 58229 86743 61579
10694 23914 18230 05717 21832 16545 89425 18592 54185 35674
59291 76038 67068 53634 43282 99252 61066 21373 11241 88014
62891 86484 46331 59087 36115 40640 50934 19476 66228 38605
10466 29238 93441 56016 51033 33537 91682 78120 51881 68613
17228 36662 98560 71373 75393 37097 87755 47282 78727 43325
19709 10231 00000

11076/9053/7386 kHz, 05-08, 0700/0715/0730 UTC File 44411 (binary contents)
10394/8076/6768 kHz, 05-08, 1200/1215/1230 UTC File 44411 (binary contents)

11076/9053/7386 kHz, 06-08, 0700/0710/0720 UTC
10394/8076/6768 kHz, 06-08, 1200/1210/1220 UTC No transmissions

11166 70202 96742 05012 01239
89030 14123 84760 30061 73288 78955 09346 68654 12477 45353
90404 03196 50847 62687 90301 98014 47620 89910 93132 95255
96791 88399 37686 23393 88465 22310 87983 93733 10109 58650
02375 89596 11201 84236 87090 77852 79686 81741 45211 97517
03692 32004 56986 05087 16928 34803 52434 81284 51220 65269
62162 28940 44616 08132 57359 16656 78479 36988 14868 47965
42040 30775 68308 60670 47816 44633 31166 86037 46352 77365
02790 22547 13719 02649 93241 03880 10190 56212 27927 65830
33565 96162 17952 41835 15544 78631 07138 41794 34613 15952
31634 93891 43873 09535 53065 54083 37240 74646 51156 12953
02472 99263 86757 54616 34437 04198 71228 47364 07089 96677
03097 70732 27552 34582 57950 08684 20793 43490 42479 63591
18279 12121 00000

11166 70202 48156 05013 02139
36724 52854 88812 47697 75392 94343 86900 40843 02238 71922
80515 82359 01137 43619 28043 80353 68566 46485 63051 19242
84497 44803 04100 52543 95103 37382 59958 72715 80722 91123
66174 37741 07511 93034 13923 59132 86226 37901 57078 81050
86580 93776 08454 05228 80586 12507 61129 41375 13358 77444
95819 87768 24781 05576 60213 71693 70503 46212 31223 04449
15682 43467 96083 30580 99913 54676 13233 76042 96800 41973
38918 24979 16585 79191 30462 79796 25277 41284 62124 84229
78735 68458 14500 14083 95120 22196 23392 65336 14167 75359
99089 94298 16706 03571 52000 89497 02886 70041 85558 80007
52513 21052 42369 09874 15969 34257 14498 33348 09120 87020
53868 10612 10681 36945 43692 08673 85445 31808 16868 37122
81841 91070 32299 73451 77237 26159 45046 57597 69441 91707
31280 60420 37823 84938 53943 55790 22513 35378 80079 50978
95092 52095 85762 55032 19242 20637 09553 89834 24747 66872
40433 73511 43340 29906 51149 30910 79786 11269 12905 10795
16660 92561 52337 14485 76255 38748 36712 65597 88060 29271
98288 75593 35234 84201 33772 84812 78527 77578 39807 83679
81079 55159 70441 43781 82537 98738 27504 13488 95919 04248
19822 57816 25680 65804 52233 47217 30394 82907 30315 24976
78517 32965 91770 07916 70644 76344 00424 00087 26708 86126
63737 13211 00000

11076/9053/7386 kHz, 07-08, 0700/0710/0720 UTC
11166 70202 62854 07063 00049 00000 00000 00000 00000

11076/9053/7386 kHz, 10-08, 0700/0715/0730 UTC File 44414 (binary contents)
10394/8076/6768 kHz, 10-08, 1200/1215/1230 UTC File 44414 (binary contents)

11076/9053/7386 kHz, 11-08, 0700/0710/0720 UTC

10394/8076/6768 kHz, 11-08, 1200/1210/1220 UTC

11166 70202 78524 10015 00819

53547 84845 35793 56002 75349 43307 62768 01244 38437 68441
63391 11430 86339 00918 31115 79383 85978 64380 04350 73113
32154 81630 16118 27821 26345 62385 01614 27467 03269 29819
99617 55569 03628 78039 08685 19924 16486 77732 84068 80949
39711 72121 86295 38325 31923 30453 17341 55616 54382 51192
05341 27579 26257 32106 23774 19827 41705 49434 56057 35549
22215 13324 41485 88966 02633 91729 63455 90211 74318 19952
65920 71324 33876 38005 08995 08047 10874 23015 99661 15079
00000

11166 70202 36940 10016 02239

12280 50391 39175 57362 60302 63239 85368 89405 82414 66018
73920 73306 46991 11021 93412 62599 49791 92542 67840 14840
41465 53177 31831 86429 95402 91769 14150 68935 83083 08965
09212 65353 49152 51294 41250 29750 03374 39736 50870 18725
71683 93678 58629 28118 73495 86242 85376 13418 17473 91879
34005 17290 32946 12194 62326 52684 79158 90932 01734 14929
99528 54059 01367 21280 13131 35877 02446 01347 60557 77119
72467 86827 46370 05942 53954 74005 45320 37778 07445 57434
64525 54967 53399 58250 78790 52111 42735 95556 81258 58090
10646 74305 16587 70675 93420 88124 88824 64674 12933 60519
61185 59557 58498 72900 89907 57484 20774 52851 59378 87685
57407 21102 10714 18123 95101 20617 80988 20378 97800 76266
95295 98702 55670 58481 78826 19154 74569 49369 81150 99782
70699 34697 29904 47780 00113 70191 56045 54544 77776 95600
57893 84585 65869 94935 96111 19223 36006 26352 36842 41006
35080 70092 85173 69785 09402 67930 76126 86395 66822 52561
15342 04861 81541 90370 86670 79080 71274 86014 68842 54922
01464 22260 28403 03661 96243 33513 81107 97710 60815 36478
38966 14568 44941 66379 85108 79922 02248 92192 43681 85866
25001 09310 36943 45133 59071 33095 46758 67313 28756 41742
22672 67979 26150 41899 03755 46658 44760 55475 46403 94587
62046 51080 75287 18200 00566 68533 99628 89256 22429 09868
61996 16221 00000

11076/9053/7386 kHz, 12-08, 0700/0715/0730 UTC

File 44417 (binary contents)

10394/8076/6768 kHz, 12-08, 1200/1215/1230 UTC

File 44417 (binary contents)

11076/9053/7386 kHz, 13-08, 0700/0710/0720 UTC

10394/8076/6768 kHz, 13-08, 1200/1210/1220 UTC

11166 70202 45612 12018 01179

32144 72344 13455 05766 07778 07888 58998 59000 90911 21132
32334 42445 15566 86758 36798 78808 39099 29210 59102 51222
34344 05465 45565 05687 47871 48909 79921 02111 51345 83333
03346 95556 77670 66798 19899 79000 60910 71143 23333 73344
64455 16676 36687 77789 28909 38110 70213 71325 54344 64455
05565 96667 37878 68899 80091 91112 31133 83233 73355 54555
55667 96777 18878 91009 33410 40129 70322 82338 34546 15666
96697 68787 28890 19101 61125 02213 44364 53554 75565 06767
46877 78890 29000 51101 61122 91233 04444 65555 84660 97677
78889 58909 60900 11111 52322 63335 63445 46476 66690 27788
88899 59120 71211 02113 03654 33354 65456 05664 06769 18889
18080 31001 81023 82143 53644 18115 00000

11166 70202 12378 12019 02199

14676 15968 87678 90898 49803 20922 21032 73334 73655 93455
05739 50288 37813 88000 99000 00113 43322 24253 35457 66576
47667 07097 17890 19200 62153 90133 74435 64444 54555 66668
06787 18889 19006 70911 40512 91013 93446 53676 66656 66697
78774 98999 32011 11023 60134 53333 12464 33565 36167 66897

08880 69080 01111 61244 52233 60335 84665 33658 96778 99889
49019 80401 21213 42322 42434 75654 26665 16780 56688 78800
89101 00033 51123 54433 73354 83456 05668 37877 48880 28090
01000 91132 31233 44445 63545 94677 86768 48888 27809 69901
79112 41322 12324 22448 06556 45677 17698 68889 52380 80014
32113 23223 33455 44455 25666 06777 07989 28959 51901 80121
92133 44344 44555 44599 07778 08788 08899 29900 70021 71222
71324 33445 46545 65666 07687 20958 50399 92212 10727 32183
33456 52475 85477 56760 13847 38999 30900 22181 50635 26337
25444 34647 46596 77789 70999 29001 40342 41321 52233 83354
14455 15599 67777 87889 98990 49003 79312 43233 03343 83445
37556 36767 36889 18889 80003 00023 51123 62273 93544 75556
16566 89778 47798 88800 00144 20211 12334 33455 86554 75677
26777 47978 39410 59194 11312 12322 21444 65354 34545 86676
85288 48898 30809 81021 01222 33234 24544 33486 75567 28778
45108 59191 99000 73111 82224 53439 55645 86566 96676 17798
38988 60901 60002 82222 02333 13444 34576 19217 00000

11076/9053/7386 kHz, 14-08, 0700/0710/0720 UTC

11100 70202 12456 14025 00049 00000 00000 00000 00000

11076/9053/7386 kHz, 17-08, 0700/0715/0730 UTC

File 44420 (binary contents)

10394/8076/6768 kHz, 17-08, 1200/1215/1230 UTC

File 44420 (binary contents)

11076/9053/7386 kHz, 18-08, 0700/0710/0720 UTC

10394/8076/6768 kHz, 18-08, 1200/1210/1220 UTC

11166 70202 16842 17021 01939

50766 61945 14140 26060 12695 67489 06806 41367 85358 92596
47047 44905 58735 58129 69030 31789 04858 81548 21562 28556
43895 76081 07666 09765 20881 03106 90258 45158 35275 88695
18638 50821 90536 40269 55449 42797 55917 24263 08839 16569
57634 90791 99457 00863 41638 56201 17029 59204 75142 79485
46141 37666 79114 93477 65981 82246 08905 76771 53665 74310
25218 77294 45884 57534 22596 23488 38527 54801 07606 84015
28988 98461 43935 61946 30828 22421 06552 34348 15500 89474
12148 73229 60798 52341 18034 08768 10741 71814 06676 20754
76568 40493 98069 69204 33535 85505 57135 00069 93195 48681
88306 86969 55863 67600 34532 94915 72933 05955 22849 76932
73759 06672 23723 39528 36761 66220 16354 37955 09463 53554
77120 87189 07149 22113 33359 99569 44810 88335 49660 85037
82087 75110 38874 74908 85888 43602 15010 55118 40362 61902
30215 19880 58933 83926 63028 81689 78069 37007 50087 98606
37476 41613 78479 04778 76399 11638 80926 55097 00742 08689
00990 19984 00652 48820 20480 91179 23299 85145 66263 84532
30512 14762 38647 50679 95959 83433 28539 29583 21578 86464
15561 09851 77921 89201 64304 78779 98127 15598 60926 74055
80175 21191 00000

11166 70202 91435 17022 01759

36937 01888 75543 47706 49956 03359 81060 47665 19333 36736
73297 99941 57935 24742 32722 16218 45931 51973 76150 24693
19889 54184 21878 89482 38547 90862 71318 12542 61175 80790
05573 10299 99472 05292 20390 82174 28939 08832 47936 13191
70655 51672 38819 77844 79411 94269 02804 37445 99124 18086
31662 48085 71467 12531 52580 21454 08674 82684 85576 05668
66428 57528 03359 78299 77793 03337 17058 68815 34117 71939
36285 52584 23842 38530 76934 83661 65166 08721 15181 58526
93485 99513 11109 27964 89567 23890 50404 99285 59371 33702
77550 96060 01480 00547 18971 67559 23057 39322 19539 65087
90282 04144 40919 27408 24194 11310 95151 42430 77881 69011
11931 77350 55957 18460 63012 94445 62261 16133 92192 94694
86718 11823 24279 56416 67294 02167 51517 61123 87985 64358
20887 23761 98789 99719 70712 69533 68574 41826 90040 24498

06803 08869 99192 12119 15041 04941 74958 72957 54186 99939
68850 49707 38362 42767 91861 04738 91399 87523 64171 62348
26866 37368 53218 92919 37557 35755 48603 81144 05407 59706
47234 45527 67738 22173 00000

11076/9053/7386 kHz, 19-08, 0700/0715/0730 UTC File 44423 (binary contents)
10394/8076/6768 kHz, 19-08, 1200/1215/1230 UTC File 44423 (binary contents)

11076/9053/7386 kHz, 20-08, 0700/0710/0720 UTC
10394/8076/6768 kHz, 20-08, 1200/1210/1220 UTC

11166 70202 53691 19024 01739
52050 95276 75148 80106 15880 13956 71529 03440 71526 45958
96638 33861 45381 11396 41143 25638 63480 63615 37761 22175
92053 29524 50359 38996 39978 59529 10860 86055 57541 58809
63531 25996 15916 21985 25621 15662 01594 43016 24222 27341
10280 22051 18327 96779 74570 41377 65660 94863 09796 32017
43683 69789 12363 03179 83889 56615 95095 56179 29135 01134
93763 54855 73175 94714 29378 74258 91633 67360 60421 99610
24208 35498 09598 97248 16930 51577 99276 29555 84513 52292
80162 35732 01412 52382 87479 50248 81627 80655 09046 80802
56313 05445 99745 17876 08521 46084 26498 97383 74635 17429
78380 88812 71736 04269 26199 30096 60338 12470 65669 81760
01864 93811 28965 21625 20186 91226 98700 52364 26667 01502
08862 43563 18045 02272 66964 80266 06563 40007 81954 39790
91660 26166 32123 68780 32707 38098 57409 82313 31973 71846
10501 56976 87507 43413 51178 39668 24891 85710 18018 44261
67703 37721 62204 57705 55611 73052 77540 27568 69905 64568
11079 52996 75429 32015 88897 50832 38637 69586 41191 18725
30952 41710 00000

11166 70202 45978 19025 01959
68362 67065 68986 64303 12826 57034 20683 49912 65864 94007
98318 71381 86825 02713 40553 72073 17877 95826 94912 85403
79976 22545 04435 86787 26356 04767 32296 35533 45714 21799
29110 30105 32303 29544 72601 25209 65095 25089 34319 84128
63224 92649 53091 64758 09879 91797 19911 62755 61842 73906
03927 60268 86864 37761 74242 53665 96054 60268 97196 58701
63478 63195 13826 16569 50150 01885 27186 49261 74608 86878
54227 37693 97262 74393 21904 21011 10692 86577 12215 40530
53090 47486 85852 76742 87048 45730 39158 52824 10849 59705
74055 03090 94469 06375 85675 29817 57485 99503 97326 96898
31050 28328 97532 33737 71142 92546 58796 47843 15279 54617
42794 69546 99862 95265 21684 77292 80371 83157 70214 76927
21556 94666 08321 33431 49857 44682 98894 78529 85207 14383
30425 42620 94416 86925 39177 84456 33336 26979 50623 17019
69964 65045 44791 53015 05711 72504 75226 18451 36985 38312
96257 07702 24308 83303 78250 78522 61124 73029 15533 10447
59522 15064 56691 74987 95019 51721 11909 91107 77630 84123
17049 64366 41386 88554 59160 33208 69498 11028 93098 70810
97357 51026 03945 15934 60545 70331 94916 31223 80065 87888
05451 12374 01953 25193 00000

11076/9053/7386 kHz, 21-08, 0700/0710/0720 UTC
11166 70202 91435 21063 00049 00000 00000 00000 00000

11076/9053/7386 kHz, 24-08, 0700/0715/0730 UTC File 44426 (binary contents)
10394/8076/6768 kHz, 24-08, 1200/1215/1230 UTC File 44426 (binary contents)

11076/9053/7386 kHz, 25-08, 0700/0710/0720 UTC
10394/8076/6768 kHz, 25-08, 1200/1210/1220 UTC

11166 70202 96352 24027 01759
04392 47454 91987 08830 29275 64475 89235 01399 51793 15569
37912 14233 80324 65457 50757 31716 15173 82628 80054 39455

80350 41994 49653 78159 61701 59281 45687 90972 12321 61854
89419 81449 11190 25643 40653 24364 85968 32878 05149 96543
35897 30314 44481 19898 15719 92622 11775 33854 66585 20656
61756 39366 04870 29260 08564 81700 04823 04318 29738 64172
36023 33730 39856 10029 41539 42002 82220 14666 67763 83132
12058 55364 81831 71494 69657 50729 37587 55383 66886 87028
76015 62937 35525 53612 71084 75105 10857 54598 56936 05349
48942 89020 97364 90779 01031 16616 83514 24399 93533 51449
70739 83147 87002 50551 90559 31434 12550 89769 98652 04852
09146 44011 44820 03747 10235 14066 75858 51343 53103 67202
07287 96104 09441 83718 24850 63022 60529 26640 01752 83517
65498 76744 42543 58641 96083 00112 89609 35265 36330 40379
53200 99950 70670 52886 50915 20172 08822 22913 67617 87600
20935 35174 71683 43124 81436 86780 48546 88286 45000 60840
37450 12849 03083 02893 82378 93146 94464 67363 33071 40936
68232 26224 57076 27173 00000

11166 70202 48157 24028 01659
90023 54250 71593 97195 33843 56158 67757 73934 11077 79855
23000 79519 13906 08678 41174 44145 22877 68184 39223 73190
43274 51767 93939 74823 11901 98302 48998 88871 10208 01547
80668 09165 44710 55950 45663 16501 80615 68596 59547 64466
39630 91932 79155 85257 97848 56988 87449 07717 44681 11777
04254 04769 88762 94553 71305 12426 21756 96625 85065 87575
76019 94406 75714 96715 37048 55385 55776 52841 96642 47721
86817 42656 57737 08127 37637 11311 26824 47751 32411 96845
54914 00732 12206 31524 12972 45108 58315 52255 12760 50793
50845 87277 09025 34278 60992 11308 43980 24762 00457 86330
20000 71399 76411 30218 11480 46346 25481 80372 51797 23288
25166 44575 56296 36159 06135 56229 67259 47706 13845 76182
31777 82618 92904 08325 48472 04889 92642 21140 44009 44096
17289 92396 65321 00315 69234 19182 98501 82310 58790 60447
50295 58733 78887 04263 53113 26982 68157 76965 79540 29436
10830 36393 77230 71729 46878 16382 60168 22779 90868 14726
17201 01217 82921 28163 00000

11076/9053/7386 kHz, 26-08, 0700/0715/0730 UTC File 44429 (binary contents)
10394/8076/6768 kHz, 26-08, 1200/1215/1230 UTC File 44429 (binary contents)

11076/9053/7386 kHz, 27-08, 0700/0710/0720 UTC
10394/8076/6768 kHz, 27-08, 1200/1210/1220 UTC

11166 70202 83691 26030 01759
67397 67113 93144 52489 79754 16769 70133 27767 41688 23591
37191 63635 03134 37336 18468 32681 61181 89221 73935 29171
34210 81375 40371 42727 74016 66217 22050 80538 20621 39235
48329 24043 29434 93561 40322 31022 25470 09816 53832 19041
64305 79630 90748 91176 04463 86310 96086 89964 20902 91057
82860 90510 14318 98196 51975 68693 95921 97849 99320 05411
52405 09481 27271 12794 20760 74760 02752 93328 27651 73187
29093 67830 73033 58898 23823 33202 62683 42105 19621 35913
19355 63602 30590 72140 27230 35776 51057 50507 89356 48553
79077 78355 02769 63736 81834 57488 80962 46144 45117 00334
78426 05015 74076 02443 96911 44096 37429 32276 78124 43868
72312 24224 12533 24326 91965 85768 18979 61775 63436 54760
74767 58062 47489 67717 00949 85683 17916 25107 32443 57215
02416 64527 27735 92493 12257 77748 97794 81990 52892 32529
58928 69809 32712 85159 39243 04759 12140 94663 93408 32923
60241 74603 05414 30173 11038 43408 83991 98062 36724 59190
80412 71533 79957 49957 83326 11882 12422 75181 70347 83407
11850 79650 21051 30173 00000

11166 70202 35978 26031 01979
29017 07615 79249 08916 30953 15823 69494 88881 88053 55556

78659 83974 93736 54516 23353 42737 93238 26462 85232 12794
 96331 53526 16347 36300 98335 10040 51998 82991 89121 26294
 23302 81773 54792 15682 86657 36778 01720 13659 12284 38830
 57642 01956 99039 08267 29492 16478 07690 30036 22653 62345
 29818 67024 51331 84488 34580 62535 94724 67249 60464 67878
 78681 61431 44268 55979 87536 62216 04465 06973 35809 86411
 21154 76702 54449 22438 79780 84067 71327 51520 70811 78156
 90647 63497 62556 71100 00971 15702 89321 47588 66544 08352
 22083 86983 81616 74867 13862 58969 92425 10584 37007 78667
 16559 88265 54541 32174 14352 33887 92793 08437 92035 61097
 07483 98414 41302 87813 60437 47471 44994 83384 49164 71914
 03578 19759 56421 75646 62122 25088 12004 27840 42445 63214
 83927 87591 10120 87471 41191 86483 31039 42248 55303 04993
 97217 10723 32777 03689 26510 32255 95763 95147 65957 37818
 53012 67532 53419 76948 28360 95767 17210 34639 38924 01253
 18392 61598 40187 46039 65452 66342 80164 72430 56013 42526
 29845 23921 25290 29976 82084 08420 05975 32846 36149 89703
 29228 43344 10080 18024 21478 44459 48092 35813 76699 90128
 15169 19428 08879 86291 96055 31195 00000

11076/9053/7386 kHz, 28-08, 0700/0710/0720 UTC

11166 70202 12458 28001 00049 00000 00000 00000 00000

11076/9053/7386 kHz, 31-08, 0700/0715/0730 UTC

File 44432 (binary contents)

10394/8076/6768 kHz, 31-08, 1200/1215/1230 UTC

File 44432 (binary contents)

Link 80214

17439/13387/11145 kHz, 06-08, 1330/1340/1350 UTC. Wrong date

11166 80214 19458 05021 00049 00000 00000 00000 00000

17439/13387/11145 kHz, 13-08, 1330/1340/1350 UTC

11166 80214 18745 12027 00049 00000 00000 00000 00000. Wrong date

17439/13387/11145 kHz, 20-08, 1330/1340/1350 UTC

11166 80214 24689 20014 00049 00000 00000 00000 00000

17439/13387/11145 kHz, 27-08, 1330/1340/1350 UTC

11166 80214 83716 26023 00049 00000 00000 00000 00000

F06a

15611/14379/13389 kHz, 31-07, 1900/1915/1930 UTC

File 04456 (binary contents)

12194/11415/10311 kHz, 01-08, 0600/0615/0630 UTC

File 04456 (binary contents)

13469/16223/17419 kHz, 05-08/06-08, 0600/0615/0630 UTC

File 40407 (binary contents)

13469/16223/17419 kHz, 12-08/13-08, 0600/0615/0630 UTC

File 44108 (binary contents)

13469/16223/17419 kHz, 19-08/20-08, 0600/0615/0630 UTC

File 24409 (binary contents)

13469/16223/17419 kHz, 26-08/27-08, 0600/0615/0630 UTC

File 43410 (binary contents)

25043/22891/20690 kHz, 08-08, 1600/1615/1630 UTC

File 54464 (binary message)

20129/19284/18309 kHz, 09-08, 1600/1615/1630 UTC

File 54464 (binary message)

25043/22891/20690 kHz, 15-08, 1600/1615/1630 UTC

File 49465 (binary message)

20129/19284/18309 kHz, 16-08, 1600/1615/1630 UTC

File 49465 (binary message)

25043/22891/20690 kHz, 22-08, 1600/1615/1630 UTC

File 44866 (binary message)

22913/18241/17455 kHz, 23-08, 1530/1540/1550 UTC

File 44866 (binary message)

25043/22891/20690 kHz, 29-08, 1600/1615/1630 UTC

Not heard/unreadable

22913/18241/17455 kHz, 30-08, 1530/1540/1550 UTC

File 74467 (binary contents)

15763/14513/13531 kHz, 28-08, 1900/1915/1930 UTC

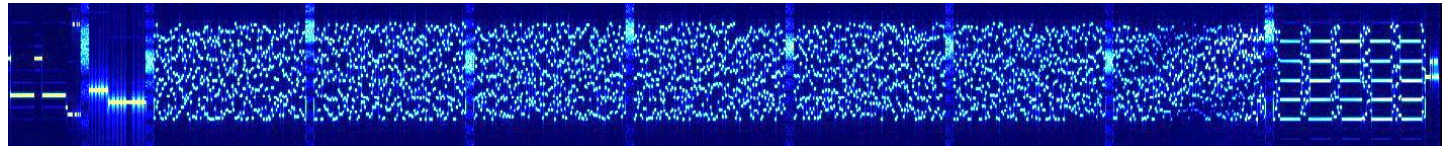
File 40457 (binary contents)

12131/11092/10208 kHz, 29-08, 0600/0615/0630 UTC

File 40457 (binary contents)

F07

16263 kHz, 04-08/06-08/11-08/13-08/18-07/20-08/25-08/27-08, 2000 UTC
15852 kHz, 04-08/06-08/11-08/13-08/18-07/20-08/25-08/27-08, 2010 UTC
14968 kHz, 04-08/06-08/11-08/13-08/18-07/20-08/25-08/27-08, 2020 UTC
14417 kHz, 04-08/06-08/11-08/13-08/18-07/20-08/25-08/27-08, 2030 UTC
13478 kHz, 04-08/06-08/11-08/13-08/18-07/20-08/25-08/27-08, 2040 UTC
12143 kHz, 04-08/06-08/11-08/13-08/18-07/20-08/25-08/27-08, 2050 UTC



M42

Link id 70103: Moscow - Havana

15156 kHz, 13-08, 1300 UTC, FSK CW + FSK 50/500

UAL: MFA Moscow wkg UAG: Russian embassy Havana

UAL UAL UAL followed by operator chat and a message

R Y R Y R Y R Y R Y R Y R Y R Y R Y R Y R Y R Y R Y R Y R Y R Y R Y R Y

11100 70103 17935 13103 04009

96351 98830 29357 61157 83513 74590 64058 94951 57718 90823

66509 89685 24156 88699 93594 60032 82431 72462 72669 48411

47845 09602 71135 16611 28240 08846 55175 83209 29859 43183

73580 86482 90638 10078 27623 77487 64381 46094 12892 73014

04244 38095 44043 23081 18987 98210 98400 72672 00404 94761

39333 22403 45389 56339 05364 17792 21069 91198 75934 21842

46432 89186 49766 50602 88909 98370 96763 76411 99327 93962

69377 38500 33681 78925 84391 45647 35155 91848 11052 60571

74843 00378 36474 30755 74595 10700 34289 75369 60426 38944

87431 83012 19931 41015 61037 19931 62147 06139 86374 93414

03384 70141 81744 000E7 36770 04F63 81301 13F71 01104 40338

03284 79141 81744 90037 20779 04303 81291 13371 91104 49338
67667 01831 8276E 66E86 E0471 E78E8 44033 07486 30433 34207

000003 33183 34185 36815 38334 36050 81704 53073 45308 06081

0909Z ZS487 34185 70815 58334 20030 81794 33977 43398 90084
43613 31704 30330 60388 34783 60148 38348 36566 80044 40854

47617 71794 30239 60288 74787 69148 78348 76366 80044 40833
84343 85715 30033 67369 60348 81575 65265 55018 84886 76811

94343 95715 30932 67369 69248 91575 65265 55918 04896 76811
88888 88716 18818 16511 18878 71158 78677 16881 18888 15866

38838 22746 43910 46544 1227871159 78677 16984 13003 45062

37772 51282 33213 62663 73249 89775 49860 60049 97265 26809

77513 99313 41443 01332 90089 20911 37431 93445 72359 44951

42098 44105 87171 51096 55785 40144 69353 91764 07064 31821

82188 18322 02440 75077 97446 24943 64431 15685 84879 39847

06467 57476 22122 18573 18033 81845 60950 18999 58517 10710

10819 62787 83179 30105 25623 12941 49687 16628 04618 22163

78656 33881 43441 31701 66635 91141 96165 25371 74964 81413

34326 68441 42951 41065 13859 86071 98808 98233 85883 60985

66771 02194 12274 55068 93848 50865 71951 84587 44645 58648

68840 03700 37681 31793 77412 75960 21655 43456 86778 38494

15089 25670 29243 88544 57782 20385 04275 47062 47529 56780

33822 79035 60521 47036 09913 75249 78879 17748 20482 25154

73753 19174 64352 35534 17427 79500 91317 74670 22858 96314

28258 46674 34110 82475 77234 25681 16082 08560 96482 04607

17013 09087 00263 38127 02158 44688 38492 84596 82107 37433

42101 76570 84167 21482 45048 74634 40244 76257 18932 84216

89665 34324 81139 40084 20394 81161 62468 88189 97039 89024

45156 19583 49142 52063 07262 36052 18133 14911 34325 52190

86430 11909 84257 63582 37106 59164 16385 35784 17547 66634

20597 93795 05562 62405 07520 16710 01371 46377 45674 67219

93903 15536 56535 10680 74862 37935 03442 03413 98960 97781

18726 kHz, 13-08, 1300 UTC, FSK CW + FSK 50/500
UAG: Russian embassy Havana wkg UAL: MFA Moscow

						64429	47553	77940	45340	92792
72962	66594	14902	63350	96050	16241	47746	18522	65999	33222	
52721	63157	85160	99794	4064?	2_	8	62918	76884	05947	76737
79707	72649	17986	23612	50486	23713	34846	94042	25369	72231	
50195	49_91	07_11	10744		7	03580	24334	88669	23874	38734
63323	43106	78182	19271	02663	81584	71959	57469	52239	82434	
41351	31597	66053	04023	94962	43546	22886	61798			
88124	56220	021_4	02930	_468	99991	15471	30367	_8317	18058	
67889	24661	24938	8_726	0_76	31930	_8596	7007_0706	_42_14		
052_3	14047	12_52	81926	4_730	89651	39707	01536	84729	58193	
74234	79334	60668	28371	06357	90160	86101	13138	23569	69959	
88061	09155	91668	35190	61221	22667	21347	11992	70276	45205	
06535	20156	08941	66500	90031	17659	44732	36014	&7055	06066	
69293	55423	06669	44023	52179	03615	57729	56394	32079	56919	
11146	47306	52556	22779	27250	09014	02891	62605	63170	52535	
39993	45117	58280	28612	61989	57982	11140	06200	69390	57440	
46389	00656	74803	60612	95012	68831	47119	10162	36423	13233	
01102	66017	75798	62466	68328	03824	55114	20132	10423	24827	
21299	99359	60495	06870	99957	85185	03760	51181	48101	91941	
33233	04669	84319	07852	41484	62371	19822	44029	34343	79788	
38811	30049	77530	49746	01595	23291	12124	23518	68902	24244	
99821	80854	70817	14953	83920	78642	68790	62790	76953	32848	
84140	56763	10932	13465	91515	68509	11118	57125	00713	55201	
79268	27081	75330	46527	97290	75233	61668	82939	87249	85902	
26316	97363	88653	06018	25875	57553	38965	91429	57246	11268	
68277	24015	61921	01483	44077	79275	82712	43798	27054	49107	
96363	83243	23874	49439	70481	72665	47871	67417	18213	39887	
23977	278\$0	31120	03382	20018	83452	69610	07030	_930	99037	
71857	50770	16002	03528	13170	72230	00821	30361	36706	15200	
34201	50368	04518	04364	86704	27076	62825	88774	68321	09049	
22487	37920	77539	18966	23143	56242	42690	04129	00491	13299	
41526	78006	43211	_7774	09957	08045	58673	60448	75875	27792	
96355	84509	79030	80766	61977	90082	62862	23017	04988	45476	
49255	40693	14809	66138	32612	60_	82730	98021	_007_	71590	
					15032	91537	32035	08285	02894	
90519	65453	68582	21851	00_7_		_02_6_	0739	74780	16898	
63654	63704	32847	60725	24562	58952	96912	91587	88466	11121	
44310	78047	51632	98764	29018	71034	48862	71660	53699	27782	
60916	81632	92592	70041	24370	25593	75441	47487	673		

UAL UAL UAL followed by operator chat and a message

54

71281 71627 86378 72924 33006 12197 37154 07373 12709 70960
46954 10010 62719 48400 87395 59983 59120 01662 02882 47643
70345 31299 63039 30475 05567 66927 09782 62163 28796 81509
47441 37001 49649 88925 49402 16807 26712 04543 79677 32559
44438 73451 52863 77916 49518 96075 80910 36827 57662 05823
80149 12403 66727 78477 37006 49250 37133 78026 55849 66453
25495 68581 37400 43377 82425 47120 61149 25499 50424 76705
70215 42444 22810 24881 82078 55417 49621 36933 73632 76212
01429 98700 13996 24998 26996 68628 43502 19053 65726 83736
22335 09654 00825 69214 97213 09286 64131 06308 59596 76381
28546 38196 93814 49761 48985 18548 38591 49970 37820 32434
10375 89698 85718 44299 61927 60465 63835 52664 74605 87770
68288 56262 07762 71878 92857 61276 53726 56442 40848 84394
71781 92147 12039 31336 99582 87554 25685 55562 65454 64348
65471 26853 50010 59158 57397 64430 70516 39155 16491 14315
86455 23604 23322 75620 49716 28555 16231 05450 47844 76876
10219 57102 13806 40801 78432 31258 00691 09181 57194 44847
44786 96632 60491 47279 65476 36776 14887 38722 75393 26729
50769 70120 99256 19066 10894 29641 24845 50422 62143 45228
34534 32929 21450 57963 90833 35662 31815 45910 74374 88309
49360 03139 97765 40221 27361 03611 43773 45050 08178 04613
01253 34159 59043 69433 97271 70981 12632 13966 48860 03534
98355 06917 82828 57252 75312 78321 97090 35359 02838 16051
61929 18922 09594 54986 84633 83821 47122 88560 85962 76791
38819 57353 61853 17734 60244 94420 28830 20490 11728 32050
76533 49253 69192 99633 75818 52815 24136 67335 15865 43836
48716 15253 68713 19314 46665 32749 04696 11455 77380 77653
07169 95120 59923 50009 60014 79051 99868 60058 06322 13042
92933 95160 01700 44258 95537 15312 10663 92895 71814 31976
19508 10341 53226 49900 64150 12092 71709 76601 96317 02454
52302 29227 36579 33473 76166 93455 87618 65024 49974 14139
06199 18400 42566 22377 57259 40538 74843 28694 98576 21084
73806 37026 69433 29463 26708 59189 81721 64174 96225 34529
36928 31466 82617 84431 17443 95597 43786 56381 25610 67876
09182 37264 68975 26640 48504 40590 15170 85396 81118

18726 kHz, 20-08, 1300 UTC, FSK CW + FSK 50/500

UAG: Russian embassy Havana wkg UAL: MFA Moscow.

UAG UAG UAG followed by operator chat and a message

message i.p. 57278 42875 93953 92595 65834 76143 93100
54211 12596 49754 92114 63735 30827 85669 54000 77181 80555
58813 02276 31648 19809 96989 39326 30836 00945 06299 92198
67766 53017 26713 09276 01905 36118 47532 56265 32856 78623
37378 84942 37838 33297 68432 73088 65107 13166 39601 59053
00526 93129 28288 19386 49469 88225 25474 62968 01249 44491
33781 40092 68237 03361 33213 89915 16898 25539 44261 74729
32886 85282 43057 74488 87428 71022 08268 40022 97156 53287
04416 28386 94578 05831 31307 68766 51395 90934 94269 32404
21823 44801 74870 04945 98134 23980 06815 84680 95586 98772
86709 55096 08933 04548 74367 05184 07707 86893 62363 95930
62459 01569 19505 96456 19144 55170 37926 38198 63829 97455
38471 60610 44939 01278 14075 46804 45190 91034 15818 72563
20431 05611 11341 17178 47558 06720 70312 09535 48709 68591
56633 07892 83903 09952 32075 36789 29334 54220 01014 29524
83488 28871 50986 49625 68290 39884 68718 89777 17448 82246
36333 71617 69199 72408 37430 94849 05633 13663 27704 09113
05785 30364 49807 07046 04690 31940 97140 61969 75578 92619
56251 58649 77400 57822 82536 90549 34881 13149 88932 22037
43266 76901 52283 38960 14978 02083 67064 36047 10344 98799
01170 14550 19596 13018 33425 88594 88331 22599 77533 23645
03615 36565 22132 55543 82908 08518 41653 63547 33030 00160

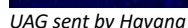
27-08: complete communications transcript. Red is Havana, blue is Moscow:

16156 kHz, 27-08, 1300 UTC, FSK CW + FSK 50/500
UAL: MFA Moscow wkg UAG: Russian embassy Havana.

RYYRYRYYYRRYRYRYRYRYRYRYRYRYRYRY
11100 70103 63195 27107 04009
69617 14907 94965 47706 20638 91441 01098077203 70031086537
10028 534-2 31236000721 66262 83385 35362 48352 10419 89159
64074 65648 38116 96506 59096 02014 75348 05308 44320 74352
68820 34993 21460 89058 14647 61815 25170 61376 73874 90204
48577 86796 48259 25396 75160 44207 14730 39514 77909 35457
41986 48295 71719 91043 37659 40651 29931 96590 99475 28245
00976 19824 68870 07280 86058 42716 10466 49678 63806 28496
65879 65843 72833 78215 55277 06192 88147 56542 25123 93642
52349 91490 65554 04251 47546 77754 45827 38175 18933 38352
41260 48157 85965 24252 50125 17722 02073 56675 23914 06255
48840 41764 59422 03182 75601 12296 26088 58394 20381 76143
27017 81157 73119 76155 17146 24641 67126 91147 26964 98294
09683 32704 65239 75238 87753 17458 99193 86861 09726 19550
35545 21816 69126 32954 50879 71590 41245 98350 44761 89854
48605 74237 14053 57761 56226 56969 71846 72393 82598 79405
59474 00539 37326 42868 25015 64992 21367 62075 66747 55557
50802 27761 64977 81944 90083 16654 50686 10756 05690 03507
84430 53733 76130 54865 43933 99466 19234 09262 43804 05747
22660 73522 35828 94749 88568 89876 63251 18239 28396 53551
67520 84977 68648 85545 70888 67536 53689 90263 83343 30675
56422 52703 07290 48504 32825 54879 38423 02599 81270 16175
86229 78254 92571 87303 62554 01080 01680 52574 11674 81106
76990 20146 80309 56606 08174 04952 51021 54800 78488 33996
87412 11658 32494 28692 64596 17955 75123 43946 83350 83795
63028 68664 91395 38780 74158 17368 60247 09996 66491 67619
91070 45039 61866 22930 47973 72235 15852 05840 42178 15257

Page 2 of 2

18726 kHz, 27-08, 1300 UTC, FSK CW + FSK 50/500
UAG: Russian embassy Havana wkg UAL: MFA Moscow.

[illegible]

57

M42b

[illegible]

P07

Q26 - Chinese military

7898 2395 5723 2754 519 4162 3250 9179 9790 8735
W968 0973 629- 0830 8265 1430 8510 9665
5073 3574 7110 43
HS2A HS2A HS2A DE POJW POJW POJW
XYXYXYXYXY HR MSG GA PSE NOTE CY

3692.25 kHz, 04-08, 1156 UTC. Switched to unknown digital mode after the message

XYXYXYXYXY HR TRY LL
2163 5748 4102 3596 7821 4093 5798 2601 7835 4096
7651 3842 1340 9526 7492 1830 2516 0789 5840 3679
5146 3827 9623 1540 7203 8149 0521 9867 4978 3065
5348 7162 0369 5412 3091 8742 2916 0587 6837 5490
3675 2814 2506 3491 8013 4792 5726 9810 8073 9645
QSL?

3692.25 kHz, 04-08, 1213 UTC. Switched to unknown digital mode after the message

MSG AGN
MZ=1234651=05=092424=283866=302352=204=259=091001=091124=15=114=090504
MZ=1234652=05=092525=283867=302353=205=260=091102=091125=10=115=090515
MZ=1234653=05=092626=283868=302354=206=261=091103=091126=13=116=090526
MZ=1234654=05=092727=283869=302355=207=262=091001=091127=09=117=090537
MZ=1234655=05=092828=283870=302356=208=263=091102=091128=15=118=090548
MZ=1234656=05=092929=283871=302357=209=264=091103=091129=10=119=090559
MZ=1234657=05=093030=283872=302358=210=265=091001=091130=13=120=090518
MZ=1234658=05=093131=283873=302359=211=266=091102=091131=09=121=090545
MZ=1234659=05=093232=283874=302360=212=267=091103=091132=15=122=090536
MZ=1234660=05=093333=283875=302361=213=268=091001=091133=10=123=090603
MZ=1234661=05=093434=283876=302362=214=269=091102=091134=13=124=090614
MZ=1234662=05=093535=283877=302363=215=270=091103=091135=09=125=090625
MZ=1234663=05=093636=283878=302364=216=271=091001=091136=15=126=090636
MZ=1234664=05=093737=283879=302365=217=272=091102=091137=10=127=090647
MZ=1234665=05=093838=283880=302366=218=273=091103=091138=13=128=090658
MZ=1234666=05=093939=283881=302367=219=274=091001=091139=09=129=090630
MZ=1234667=06=094040=283882=302368=220=275=091000=091140=15=130=090500
MZ=1234668=06=094141=283883=302369=221=276=091001=091141=10=131=090501
MZ=1234669=06=094242=283884=302370=222=277=091102=091142=13=132=090502
MZ=1234670=06=094343=283885=302371=223=278=091103=091143=09=133=090503
QSL?IKN

//&&/ 4.&&

.13610=944236=032242901029111=1=954
.1=620=955236=0332=20010=9011=0=955
.1=630=966236=0342621010=9161=1=956
.13640=977236=03527220=+=9112=1=957
.1=650=988237=0362823010=9181=1=958
.13660=999237=037292=010=9091=1=959
.13670=900237=0382=25010=9101=2=)58
.13680=911237=0392=21010=9110=2=955
.13640=922237=0306=27010=9121=2=956
.1=600=933237=0316=28010=9033=0=963
.13610=944232=0326429010=9141=2=964
.13620=955237=0332=20010=9110=2=965
.13630=966237=0342621010=9166=2=966
.1=640=977237=035272201032011=2=967
.13650=988238=0362823010=9181=2=968
.13660=999238=0372924010=9190=2=960
.13670=900238=0382=25019=9111=3=900
.13680=91123860392126010=9111=0=951
.13690=928438=0307=21010=9111=3=952
.13600=933238=0312=28010=91=0=3=953

1B

YMYMH S A

ZVWRTVTPWWRIIEWTVPTVOPQPQWVTQRPPP
ZVWRTVTPWWVIIIEWTVPVYVOQWPQWVPQTTPPQ

ZVWRTVTPWWVIIIWTVPVYVOQEPQWVEQYPPW
ZVWRTVTPWWVIIIWTVPWYVOPQPQWVOQUPPE
.243=5022=803325=0262312012=518004
EMWRTVTPWWVIIIWTVPVYVOQEPQWQPQOPPT
ZVWRTVTPEEVIIIEWPVQVYVOPQPQEVEQPPPQ
ZVWRTVTPEEVIIIEWTVQVQVOQWPQEVOQQPPR
ZYWRTVOPEEIIIEWYVQVYPOQEPQEVTQWPPE
ZVWRYVTPEEIIIEWYVQVYVOPQPQEVPPPPM
ZVWFYVTPEEIIIEWYVQVYVOOWPQEVEQRPPQ
=246=5033=883326=1=7=913013=915002
ZVWRYVTPEEIIIEWYVQVUVOQWPQEVTQYPPE
ZVWQYVTPEEIVFWEUWGVQVUVOQWPQEVPPPPR
EVWRYVTPEEIIIEWIVQVUVOQEPQEVEQYWPT
EYWRYVTPEEIIIEWYVQVUVOQWPQEVOPOPPE
ZVWRYVYPRRVIIEWEYVWVUVOQWPQRETQPPPP
ZVWRYVYPRVIIIEWYVWVQVOPQPQRVPQQPPP
ZVWREVYPREIIIEWPVWVUVOQQPQRVEQWPPP
ZMWRUVYPRRVIIEWUWVWUVOQEPQRVOQEPPP
ES G
VM13610=948236=0325=29010=9141=1=954
.1=620=985236=0332=20010=9011=01955
.13630=966236=0342621010=91=6=1=956
.13640=977236=0352=22010=1110=1=957
.1=650=988237=0362=23010=9181=1=958
..13660=999237=0322=24019=9019=1=959
5=..13600=900237=0382025010=9101=2=958
.41=683=911337=0392=26010=9110=9=955
.1=690=922037=0306=27010=9121=2=956
.13600=933237=0316328010=9013=2=963
.13610=944237=0326=29010=9141=2=964
.13620=955237=0332=20010=9110=2=965
.13630=966237=0322=21010=9161=2=966
.13640=973237=0352722010=9011=2=967
=.13650=988238=0362823010=9111=2=968
.QVYYPVOOOWEIVPEUWVWRPQPVOQOPVWVOYP
.1=670=900238=0382=25010=9111=3=950
.1=60=911238=0392=26010=9111=0=951
.1=690=928438=0302=27010=9121=3=952
.1=600=933238=0327=28010=9130=3=953
1B

6552.25 kHz, 05-08, 0908 UTC, i.p. Repeated at 0912z
7929 7973 6170 5607 7662 5407 2883 3207 4393 0494
4516 9242 2966 9264 5409 4661 1369 0629 5030 2910
1019 1238 4360 0336 2117 3157 1941 4351 7561 0187
7121 7553 4856 5813 9821 5208 7427 6068 2861 3514
6734 3920 8831 0351 9986 0820 5306 7462 2897 7952
8254 3895 3726 4304 9734 0970 6745 8436 0208 6740-1
6254 5497 4148 2352 9593 1836 6408 4220 3579 6734
2838 7860 6292 7234 4375 1725 9639 5387 0351 4598
4949 6443 1861 0716 5152 5326 2368 7080 7901 0489
1709 0386 1903 6847 2474 7032 1962 8940 7971 8221
5347 5149 4920 5324 2012 2119 6097 5458 0574 5098
6765 4578 4084 8003 2317 5189 6146 9763 4676 9648
8774 4191 4539 2576 2963 5018 9040 6715 0609 0151
6487 1201 7249 5624 3761 6332 2559 5886 3871 7615
3040 3989 2856 9378 7624 0628 2581 3707 9679 8053
3131

6552.25 kHz, 05-08, 0912 UTC

NK6U NK6U NK6U DE 5PYB 5PYB 5PYB
NK6U NK6U NK6U DE 5PYB 5PYB 5PYB
NK6U NK6U NK6U DE 5PYB 5PYB 5PYB
XYXYXYXYXY CY GD QSL 1715 AHR MSG GA
2991=CCK 191 24 0805 1700
5692-1590
1986 8986 8134 8910 9401 5892 7570 2167 1265 4231
2548 6570 9791 9827 4545 9568 8412 9867 7345 7684
4195 0359 0384 1645 0542 7932 3687 8035 3815 5163
6341 5838 9080 7261 3720 9312 9582 2471 2804 4532
7929 7973 6170 5607 7662 5407 2883 3207 4393 0494
4516 9242 2966 9264 5409 4661 1369 0629 5030 2910
1019 1238 4360 0336 2117 3157 1941 4351 7561 0187
7121 7553 4856 5813 9821 5208 7427 6068 2861 3514
6734 3920 8831 0351 9986 0820 5306 7462 2897 7952
8254 3895 3726 4304 9734 0970 6745 8436 0208 6740-1
6254 5497 4148 2352 9593 1836 6408 4220 3579 6734
2838 7860 6292 7234 4375 1725 9639 5387 0351 4598
4949 6443 1861 0716 5152 5326 2368 7080 7901 0489
1709 0386 1903 6847 2474 7032 1962 8940 7971 8221
5347 5149 4920 5324 2012 2119 6097 5458 0574 5098
6765 4578 4084 8003 2317 5189 6146 9763 4676 9648
8774 4191 4539 2576 2963 5018 9040 6715 0609 0151
6487 1201 7249 5624 3761 6332 2559 5886 3871 7615
3040 3989 2856 9378 7624 0628 2581 3707 9679 8053
3131
1590=1711=1834
QSL?QSL?QSL?QSL? X
QSL?QSL?QSL?#5/QSL?QSL?QSL?
YCI8 YCI8 YCI8 DE Q6EA Q6EA Q6EA
XYXYXYXYXY CY GD QSL 1715 BOZ NIL SK X

NK6U NK6U NK6U DE 5PYB 5PYB 5PYB
NK6U NK6U NK6U DE 5PYB 5PYB 5PYB
NK6U NK6U NK6U DE 5PYB 5PYB 5PYB
XYXYXYXYXY OK BOZ NIL SK X

5457.75 kHz, 17-08, 1221 UTC

1213 0030 2240 7540 3611 0651 4299 1066 0837 4726
5207 3305 3394 9112 3336 2481 1595 3497 1244 0149
8301 1760 7559 7646 1964
8T6K 8T6K 8T6K DE JP5H JP5H JP5H
8T6K 8T6K 8T6K DE JP5H JP5H JP5H
8T6K 8T6K 8T6K DE JP5H JP5H JP5H
XYXYXYXYXY HR MSG GA
5257 25 51 0817 1111
QLII---P9FI
1213 0030 2240 7540 3611 0651 4299 1066 0837 4726
5207 3305 3394 9112 3336 2481 1595 3497 1244 0149
8301 1760 7559 7646 1964
MSG AGN
5257 25 51 0817 1111
QFII---P9FI
1213 0030 2240 7540 3611 0651 4299 1066 0837 4726
5207 3305 3394 9112 3336 2481 1595 3497 1244 0149
8301 1760 7559 7646 1964
8T6K 8T6K 8T6T DE JP5H JP5H JP5H
8T6K 8T6K 8T6K DE JP5H JP5H JP5H
8T6K 8T6K 8T6K DE JP5H JP5H JP5H
XYXYXYXYXY HR MSG GA
5257 25 51 0817 1111
QFII---P9FI

1213 0030 2240 7540 3611 0651 4299 1066 0837 4726
5207 3305 3394 9112 3336 2481 1595 3497 1244 0149
8301 1760 7559 7646 1964
MSG AGN
5257 25 51 0817 1111
QFII---P9FI
1213 0030 2240 7540 3611 0651 4299 1066 0837 4726
5207 3305 3394 9112 3336 2481 1595 3497 1244 0149
8301 1760 7559 7646 1964
8T6K 8T6K 8T6K DE JP5H JP5H JP5H
8T6K 8T6K 8T6K DE JP5H JP5H JP5H
8T6K 8T6K 8T6K DE JP5H JP5H JP5
XYXYXYXYXY HR MSG GA
5257 25 51 0817 1111
QFII---P9FI
1213 0030 2240 7540 3611 0651 4299 1066 0837 4726
5207 3305 3394 9112 3336 2481 1595 3497 1244 0149
8301 1760 7559 7646 1964
MSG AGN
WTU WT TQ PIQU QQQQ
QFII---P9FI
1213 0030 2240 7540 3611 0651 4299 1066 0837 4726
5207 3305 3394 9112 3336 2481 1595 3497 1244 0149
8301 1760 7559 7646 1964
8T6K 8T6K 8T6K DE JP5H JP5H JP5H
8T6K 8T6K 8T6K DE JP5H JP5H JP5H
8T6K 8T6K 8T6K DE JP5H JP5HH
YYXYXY HR MSG GA
5257 25 51 0817 1111
QFII---P9FI
1213 0030 2240 7540 3611 0651 4299 1066 0837 4726
5207 3305 3394 9112 3336 2481 1595 3497 1244 0149
8301 1760 7559 7646 1964
MSG AGN
5257 25 51 0817 1111
QFII---P9FI
1213 0030 2240 7540 3611 0651 4299 1066 0837 4726
5207 3305 3394 9112 3336 2481 1595 3497 1244 0149
8301 1760 7559 7646 1964
AHR ZNN SK /

XPA1

13491/12191/10691 kHz, 05-08/07-08/12-08/14-08, 1210/1230/1250 UTC

416 416 416 1 416 416 416 1 416 416 416 1
01885 00379 17404 40632 40605 99574 90488 71933 61194 54781
67397 66476 30104 03051 11548 74524 33172 41934 34576 39963
15793 22655 45240 56989 18026 20164 09373 71240 08943 32349
89386 87819 58175 45600 51047 20704 22417 50654 40440 95935
75046 36489 37298 71890 24914 56147 91742 54064 60056 63043
93263 67738 32145 22391 41579 31873 86639 14489 89686 83995
26703 04009 33911 29066 99249 23634 75389 11232 68354 57397
70806 84202 21316 24237 87744 73390 68618 49732 17747 30466
63755 96444 01149 69909 90097 13984 64344 54832 92825 92889
39320 56333 28268 62074 81576 29021 54606 03521 67740 27522
85031 80812 55674 47869 31777 03371 77945 45256 48885 70540
54132 72425 69642 26744 40020 22598 87109 20981 88744 27252
38702 94827 08661 63133 81221 72225 50586 36783 37466 80560
71238 00505 87615 24696 44325 83577 74630 11244 11244 94074
39196 39661 23646 85936 77976 77721 20912 35866 65569 83509
69562 57943 79179 79902 14809 94772 29255 89013 57722 20380
51236 37426 79942 68216 12604 86652 56867 79182 28310 09479

38634 44500 50363 15112 92838 61764 70733 03666 92144 32179
37178 27370 58036 96149 52118 04064 38118 34997 93856 87247
45885 52081 02180 58052 17861 80418 54556 12094 15857 94958
36904 35756 44700 49175 24394 31097 57979 82041 16276 19976
28629 50128 79325 06777 97476 18077 87775 41415 88512 24181
70542 80600 10393 70114 90326 84835 95521 05780 62298 08588
43984 46649 06803 82906 18879 00696 44943 19131 61976 03120
06632 76504 50044 85371 96506 85966 82443 86725 24140 88274
41376 36410 35301 98279 15089 17419 41923 59706 24185 53394
82200 95544 49114 44121 68400 18068 47785 25323 12820 72655
38909 73927 13579 51880 08358 07636 02135 53117 77547 44917
77330 92375 46650 25942 82831 44727 01344 73118 73863 18662
09973 32933 52109 99476 14222 02251 24513 52593 03058 54759
93412 66918 77683 02954 07403 19372 43625 67660 66162 21104
52688 96144 96311 97153 51917 95317 37992 30227 70553 42969
55642 33669 59466 22042 58920 23086 34022 01628 88737 32939
20991 18044 63597 27342 29528 03001 72941 10881 60959 21553
19391 59722 93738 31589 93238 30989 94891 47617 96193 91906
33818 70220 03840 68495 40822 30829 30325 99580 25195 57960
95995 31932 22446 29245 97033 36321 22109 46472 75789 18634
06713 24734 05577 39986 02973 46058 11802 63936 89018 14926
97907 53140 74431

13491/12191/10691 kHz, 19-08/21-08/26-08/28-08, 1210/1230/1250 UTC

416 416 416 1 416 416 416 1 416 416 416 1
06073 00224 10681 41424 79298 74614 04640 95288 27502 89869
13970 05445 14950 99129 26974 01221 65129 96227 90205 98867
33775 93656 70157 77956 35453 36891 75009 53031 86488 83466
44889 01913 30229 13954 57904 67179 15740 05135 98892 67217
81318 45943 90121 31027 33449 67520 59009 02237 47940 69556
25206 73715 10948 87561 80607 12409 78027 52345 39356 12233
25353 55902 84459 09268 90184 95253 90136 08820 46686 20884
66260 88043 41207 33719 53503 27963 22837 66415 92551 90347
97249 50279 33664 41790 21293 39870 30361 03680 54491 25964
40949 50467 92203 66807 51174 44288 32896 89128 15709 12717
02964 76071 11539 82403 32057 30849 91794 50610 26529 27896
80743 42130 93412 51179 94753 43125 77945 73170 36182 38983
75583 00882 08665 26388 32890 08710 15274 50019 05800 31574
98278 61219 21653 73494 21955 23103 09901 46303 43340 77266
26201 03715 21156 73815 90098 59264 63292 49024 52692 44777
31085 91083 89772 41929 21383 63984 09581 92809 37844 73985
53119 58819 62339 68716 52496 05792 39783 15747 31172 96815
33105 93376 49862 41376 10768 39612 81088 82410 03092 99976
54037 18896 50171 57333 68328 86337 74165 21267 11556 38405
14597 98725 71039 34253 47260 84077 71513 40002 86867 43537
24185 20804 82693 20411 75594 91133 50123 70570 24644 15084
79228 99548 04813 66425 35615 79297 34659 00459 80556 62763
52720 53306 58965 41048 59973 23418 76537

XPA2

18376/17431/16184 kHz, 0900/0920/0940 UTC

18376/17431/16184 kHz, 01-08, 0900/0920/0940 UTC

00344 00140 60357 12305 03912 23884 28766 40904 61497 83239
59567 38578 62555 41965 02369 93395 86823 51796 33504 94549
71503 29645 37985 62137 10159 86362 80221 05617 87837 14789
13921 33991 92108 12382 77038 58329 78718 78417 63737 74737
82524 92023 94403 74053 90431 00693 85849 33296 18599 63910
29283 30995 69794 48599 06143 29253 17843 05408 00102 82410
34962 57182 27255 10059 94753 52437 12513 74817 72031 60131
49384 14876 07841 71852 91238 56733 42371 03305 96308 61061

05225 10077 94297 02593 97076 38458 56232 23115 96705 28194
70464 16795 38591 88765 17737 47013 40789 80729 84927 89874
00518 08629 46962 58568 18077 32844 46832 94434 28267 33008
38136 21617 50558 70064 60571 23415 24691 95108 53165 68749
10095 91348 16711 13383 83563 70984 25243 19001 97560 36284
78973 77895 44640 20397 09131 79654 80960 04349 11864 17219
28304 49152 02023

18376/17431/16184 kHz, 06-08/08-08, 0900/0920/0940 UTC

00634 00085 66926 13307 83911 61719 48294 82604 22509 85102
45668 03800 63290 22847 13099 42782 56785 02220 04981 94163
18540 38739 24370 40265 14535 43592 06650 25295 78525 74670
79604 41447 86643 93269 00821 82663 11009 48925 35914 63501
66374 75270 01822 35080 21761 28156 95437 21745 13232 63043
39426 36410 69005 67329 42546 93723 26555 25563 88156 06568
87474 65985 10077 05700 85486 92769 67487 16322 13360 10122
79929 20835 62111 90492 56414 05203 75359 23960 82085 49257
18329 57582 99745 63268 92479 53478 98321 26623

18376/17431/16184 kHz, 13-08, 0900/0920/0940 UTC

06493 00001 00000 10140

18376/17431/16184 kHz, 15-08, 0900/0920/0940 UTC

06461 00001 00000 10140

18376/17431/16184 kHz, 20-08, 0900/0920/0940 UTC

01222 00001 00000 00140

18376/17431/16184 kHz, 22-08, 0900/0920/0940 UTC

04262 00001 00000 10140

18376/17431/16184 kHz, 27-08, 0900/0920/0940 UTC

07136 00001 00000 10140

18376/17431/16184 kHz, 29-08, 0900/0920/0940 UTC

09431 00001 00000 10140

18064/17419/16038 kHz, 1500/1520/1540 UTC

18064/17419/16038 kHz, 01-08, 1500/1520/1540 UTC

08882 00165 62512 83706 26678 23934 96289 35110 41729 14908
15276 79303 27016 00186 47936 53367 62288 98769 03074 73446
79877 11582 14431 64986 39356 23908 02827 01878 96540 42580
04081 14759 95413 13596 68094 99146 91134 66640 72994 75125
89648 73027 39151 06567 51586 64200 83975 38724 18489 57936
78990 92391 29133 22440 26088 74129 54342 27046 88359 25438
95468 01837 25804 36852 15533 88016 30997 78599 65672 84257
27918 92701 80984 49407 50782 81155 77809 66615 35844 37428
33020 34908 24122 12237 89351 55517 60516 29526 34516 26029
28562 12172 77550 04078 16632 10397 18595 08515 72301 87926
62329 10330 23795 58882 76678 33847 64532 44273 89590 23920
66234 50319 26787 94461 55696 22257 14091 31753 98112 99065
81460 22036 60060 41678 14047 85223 59425 68437 31981 75544
31175 23595 58097 10038 63786 21795 88283 83913 59587 39094
28345 04270 60444 74312 89882 39268 40457 47296 20016 12044
21717 45790 61360 55487 46867 84808 55085 91931 07497 75240
17367 52614 63048 05967 88106 37172 46668 60052

18064/17419/16038 kHz, 08-08, 1500/1520/1540 UTC

04117 00001 00000 35255

18064/17419/16038 kHz, 10-08/15-08, 1500/1520/1540 UTC

09296 00147 71082 85865 66462 58295 49485 33725 81528 86882
03638 02241 52091 00077 82909 39220 78440 33354 73304 29200
41305 37822 84060 44409 14730 13369 49995 22298 84777 14469
42154 36531 22360 31751 86218 87811 06576 49055 11255 26649
87427 14291 74435 62817 59198 27219 92005 32001 96405 47773
54207 97554 64000 38655 04461 72944 19396 97210 54015 76573
19752 93884 40842 22275 62680 98153 06592 61181 88448 83408
35184 46219 55000 96448 82253 11406 01711 54430 67829 84457
09096 93863 22155 40779 07775 78313 20762 31234 03678 47297
17114 80667 71721 40617 98139 95252 57388 13209 43317 30332
83213 40083 22302 68171 25223 66664 11085 06504 92602 75308
00077 29261 09668 46103 33006 54764 41335 24282 16666 61889
04427 07069 54108 58204 52229 42711 42712 51182 55713 15865
55428 61138 77620 00617 00331 47873 40025 47392 81432 90694
15960 66688 81568 86477 11203 80270 11316 70933 48500 64053

18064/17419/16038 kHz, 17-08, 1500/1520/1540 UTC

05811 00001 00000 35656

18064/17419/16038 kHz, 22-08, 1500/1520/1540 UTC

09138 00001 00000 10140

18064/17419/16038 kHz, 24-08/29-08, 1500/1520/1540 UTC

05914 00220 28915 18952 79629 85844 91990 77969 52064 35381
77861 80856 69818 95943 78368 65107 65516 04504 60024 76636
60179 90043 74020 12006 64681 46355 41457 37850 06688 24583
41775 80660 23456 51987 79558 83709 52364 15698 87413 42881
15561 59546 33117 23734 03251 81058 72866 91395 21435 95565
12607 15254 94249 45378 45739 42232 41941 44287 31012 04374
14126 93675 61420 62367 28568 00759 02857 76663 11593 35626
71415 98163 71425 65498 55471 56922 18750 36687 07554 06991
00581 02788 07093 00657 72658 76467 40442 40446 39809 57471
66003 35555 46877 37591 89068 73209 57558 03332 86794 14286
74357 76419 43049 12606 63558 91231 82821 41683 07570 51044
86616 87172 10773 02704 88395 72833 07157 91297 44161 23531
74407 43051 27793 11953 55467 07801 70861 58954 75729 26892
41151 91492 65288 35055 84783 20082 21787 87790 73887 45168
77597 47910 75654 58421 54244 45222 76335 37624 23835 49802
38896 99222 24465 90918 63693 46924 75943 77625 91322 10946
06862 18935 13716 00485 22382 72348 37660 91447 99427 25305
05256 67702 50254 53654 84638 03764 63422 82518 26033 85644
88043 73501 75034 01419 87288 19489 31664 65772 05995 55035
63609 82080 43064 86220 78515 32364 41545 32568 74004 24949
90323 76380 62427 09017 15645 25261 67073 16816 53618 30333
50467 10701 28033 20793 24547 83608 75358 40294 58574 29001
86164 84164 26470

18064/17419/16038 kHz, 31-08, 1500/1520/1540 UTC

01520 00001 00000 10140

15843/16218/17424 kHz, 0700/0720/0740 UTC

15843/16218/17424 kHz, 03-08, 0700/0720/0740 UTC

04760 00001 00000 10140

15843/16218/17424 kHz, 05-08, 0700/0720/0740 UTC

01222 00001 00000 10140

15843/16218/17424 kHz, 10-08/12-08/17-08/19-08, 0700/0720/0740 UTC

00717 00341 19299 97971 47008 04684 21651 52066 57289 83446
73304 18380 07303 03325 75110 67226 22823 86204 06382 50685
33084 86833 90850 05704 16853 10737 73011 15355 12698 37462

01834 21991 58574 04652 27768 56769 78038 16059 47671 65810
72006 49358 22769 11893 41846 39827 29708 50705 12724 15708
36674 53258 58952 53088 60686 83860 88700 30583 53680 12970
28063 05363 88353 37269 62547 83966 15587 15601 50679 47268
63906 64879 65865 82467 84389 93332 40607 00215 83875 50599
52122 38176 99244 52431 35418 97268 64342 64511 24511 69698
80833 02630 92283 30688 00533 25917 86633 45929 35863 51003
26913 90000 82732 64483 32610 17563 03594 33099 11950 64546
44973 56906 13697 84033 39704 76515 02559 90868 78918 96526
33665 83927 77990 26820 62608 62686 33863 88933 17063 70473
25634 54882 43396 75429 26338 82233 40035 05502 82560 02385
17915 88592 58712 76204 03188 77482 80753 20085 01059 30586
80547 88015 04009 33164 84372 83902 07268 33726 07153 44098
11564 29339 49032 40254 65972 12160 50543 53070 60511 23093
86300 87408 88085 36288 66003 06507 60083 08083 91614 25063
36863 33330 83016 88061 63086 82736 38600 56386 27790 60028
80360 20748 11775 85878 28668 66800 86307 84366 77633 88605
00436 33836 15880 34863 22787 87560 37570 86638 35371 10851
28063 11200 86846 83366 80418 88003 68630 65060 68500 53660
36088 86563 60853 05880 83566 88387 60748 00028 16383 33403
88058 88682 35306 02484 04868 36253 32367 08475 77200 72637
65038 83395 43948 53428 30089 00544 46808 33688 46663 56036
36186 29980 55097 66278 23023 27366 83368 35863 33086 64038
88602 87701 83623 86218 03658 97609 14097 27929 02375 79209
08312 49850 40416 22865 62967 94611 62040 71949 16258 23021
00709 29664 27188 26754 70467 43896 48216 97245 19096 66250
81712 98814 55869 36843 41472 06939 88061 73047 40705 55005
88144 54095 85616 64554 12828 96476 09269 83042 51949 68988
09579 10060 75526 92012 09458 38903 17605 06348 38641 90851
88652 61727 68499 57345 30780 00086 00008 70538 53586 33703
33523 30668 23053 33000 48256 68833 08883 84476 20468 77686
33372 88701 55218 57765

15843/16218/17424 kHz, 24-08/26-08/31-08, 0700/0720/0740 UTC

00922 00212 83723 48490 04557 58846 27619 57380 44126 65488
07761 21937 66387 28169 50716 76259 38004 34079 22994 96198
00353 46567 42241 47280 67372 03990 78260 88780 72211 10625
83346 63461 23195 54330 12069 38056 29398 85497 73142 23736
85943 45150 54558 40450 16006 01079 84403 49235 17516 95867
60124 22480 31661 35379 54805 83882 12893 56970 12429 32448
58070 15072 41104 56874 24725 77773 55673 66057 45684 18764
48803 01162 26905 16785 14802 26298 11426 85495 34026 14040
39155 21123 00585 81770 46564 58286 35441 43406 59563 20267
96116 14818 28431 51482 03386 24199 19931 33350 26702 43655
57292 73766 65880 07431 99468 47456 83833 09915 10833 06378
22286 07526 76557 02804 66939 84637 90281 14983 59481 70010
49245 85589 97726 87785 14892 10215 53409 26025 80477 75742
83161 54960 07468 94677 66257 81799 53065 31135 27547 22239
04404 24390 84797 20762 18728 80758 27913 95482 31537 35471
66160 86486 96076 63075 47630 79634 14935 13166 52265 95831
61780 91990 79084 69476 33530 72337 71966 84494 42718 46828
40980 08950 34114 21385 35890 29630 24647 13013 94420 41802
07124 04233 58854 36376 14733 24985 70483 03496 26917 31732
59421 95694 87641 99841 00369 94692 11418 73832 77846 43625
86064 13880 59935 85059 19209 61663 42637 89954 32898 11406
89985 46855 69315 44537 50374

19597/18173/17472 kHz, 0910/0930/0950 UTC

19597/18173/17472 kHz, 03-08, 0910/0930/0950 UTC

07316 00001 00000 10140

19597/18173/17472 kHz, 05-08, 0910/0930/0950 UTC

03550 00001 00000 10140

19597/18173/17472 kHz, 10-08/12-08, 0910/0930/0950 UTC

02637 00119 14743 04904 43263 85282 49402 89644 10844 68874
98703 16854 24417 32290 62696 38326 99565 35534 89156 35680
08369 15663 56394 46397 84269 70125 08294 72324 11424 99544
08710 91658 51943 91089 48997 96037 07176 09501 09573 73672
60179 98714 55525 52088 25744 06419 25062 36880 97480 56106
36037 72478 04540 41371 26925 35553 16621 76267 75505 86864
27078 61715 14734 66253 04185 12661 15851 99827 46239 28341
11323 96103 94231 76135 39955 73341 18516 68198 47026 83460
44064 38473 83081 77981 51632 50586 67793 40476 62611 35314
44420 46463 90299 61469 94247 21748 10415 56663 50932 57506
38059 89264 04207 97255 77482 88604 36863 74776 15344 99487
11795 98508 70889 77370 06484 39951 42671 79272 03309 46722
91355 52535

19597/18173/17472 kHz, 17-08/19-08, 0910/0930/0950 UTC

06491 00171 35416 48928 15863 49947 71760 64798 01235 94210
28018 10466 60709 86926 32003 96621 77309 32588 09863 80035
94962 04983 60019 47513 91908 57795 39629 40441 98987 64565
73628 66355 52636 08413 96386 30363 00972 55989 58556 03107
02013 89694 09557 91557 27724 07180 21485 86477 12721 24674
54753 20223 75691 82067 53656 03057 54355 71149 68143 41193
74537 16047 46885 91240 89352 22710 68696 51610 10591 15886
94067 80925 86979 27269 99947 30895 80429 75861 76212 29850
66239 99807 02123 46998 70161 15027 14374 85475 46309 65238
46519 39916 24074 54635 26947 73596 76135 96601 74277 28470
61880 73780 70871 52429 67638 34378 42693 86922 43137 64199
02150 02872 48621 51384 00387 70900 22649 81830 76788 97088
79498 17719 26351 65834 52218 18767 00363 31131 72392 91370
35218 87474 51735 39001 25792 32398 87553 93244 19516 79968
82542 09491 16025 44542 30086 27227 65485 44025 48370 81183
55011 55825 19010 60916 51164 73922 30187 12055 61118 93842
64639 71312 56650 80486 26080 08506 93222 70119 02722 31318
04276 71692 79148 75417

19597/18173/17472 kHz, 24-08, 0910/0930/0950 UTC

08711 00001 00000 10140

19597/18173/17472 kHz, 26-08, 0910/0930/0950 UTC

03369 00000 00000 00040

19597/18173/17472 kHz, 31-08, 0910/0930/0950 UTC

07933 00001 00000 10140

18048/16271/14494 kHz, 1100/1120/1140 UTC
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18048/16271/14494 kHz, 05-08, 1100/1120/1140 UTC

02467 00001 00000 10140

18048/16271/14494 kHz, 06-08, 1100/1120/1140 UTC

03598 00001 00000 10140

18048/16271/14494 kHz, 12-08/13-08, 1100/1120/1140 UTC

00200 00088 99052 73035 71606 80361 08981 20504 18321 97894
82418 25820 81457 91426 56188 46992 14971 08733 89430 92772
58520 52903 24993 61235 39769 00781 78929 09593 78437 12642
53023 18248 89265 25542 92700 05676 30365 85168 68862 32756
28364 52641 95729 68278 74032 98662 82922 73097 13070 40766
14971 70939 18764 15539 49527 46893 87643 44571 46685 16154
83496 76532 04712 15377 57575 21515 86940 86554 93444 03857

31422 17548 99840 39214 84705 13321 03286 10585 95024 36418
83980 13821 30950 34250 61264 79270 67380 37816 70974 71874
60525

18048/16271/14494 kHz, 19-08/20-08, 1100/1120/1140 UTC

00926 00150 49526 59704 53404 35207 59979 77265 98247 63171
80963 56027 83285 02077 38806 59063 76252 88172 65569 32384
21828 39728 41665 81068 30867 59656 15461 13416 48646 06662
11661 41483 01817 41412 32616 24942 79036 79587 34618 80195
79682 60024 96116 02142 88745 15635 76567 20840 42926 15670
60740 69104 93341 12902 88648 26980 93525 83146 84052 54548
81743 95327 23587 94278 96339 13690 33317 51557 60067 57860
02765 89919 43896 70797 87339 69080 04594 70674 11772 58982
81418 00815 45334 25402 69308 55782 41973 51621 18874 23675
14395 34423 69251 33842 80639 24526 80953 64603 58905 97398
08826 03358 80304 04577 83136 00926 83560 55700 06535 06724
90576 22247 36039 74451 44750 83250 36019 65726 82017 51350
13699 98549 22227 78662 57479 23430 40097 34664 59569 82382
92294 61036 75824 33328 62810 51907 01276 67020 33001 43548
41409 82678 23564 10897 61683 93847 31077 89367 57741 43794
71779 45365 05363

18048/16271/14494 kHz, 26-08, 1100/1120/1140 UTC

02038 00001 00000 10140

18048/16271/14494 kHz, 27-08, 1100/1120/1140 UTC

09465 00001 00000 10140

15884/14684/13484 kHz, 1800/1820/1840 UTC

15884/14684/13484 kHz, 05-08/07-08, 1800/1820/1840 UTC

06549 00103 02261 52942 93757 77247 91602 36862 28830 20880
05168 74069 35121 86760 76040 22462 18012 91294 96096 20589
04021 47928 66839 44354 39711 32546 94132 58459 53888 47235
63061 03331 80179 92379 43435 07996 15344 50305 41337 56350
16382 48102 07321 65642 13712 29476 85792 67410 48168 89748
99218 87776 00713 58725 21992 42790 38531 62190 44316 05896
29033 46264 86823 23975 07237 19186 33963 47974 40551 86002
77730 12937 46574 50117 23271 98699 65056 93136 29293 36950
53124 16730 79748 81213 64416 29851 51377 45106 03517 70274
67031 51542 48746 85677 82760 42257 06098 16080 35350 22520
47412 90985 85380 40425 08562 43762

15884/14684/13484 kHz, 12-08, 1800/1820/1840 UTC

09242 00001 00000 10140

15884/14684/13484 kHz, 14-08, 1800/1820/1840 UTC

04572 00001 00000 10140

15884/14684/13484 kHz, 19-08/21-08, 1800/1820/1840 UTC

06414 00239 20856 12797 45369 10966 17194 24888 46148 28194
38630 44691 17272 89616 74398 24069 41215 43419 26704 68382
19571 08260 39551 02846 82616 96320 12232 19632 73910 25080
56791 72285 69146 93563 90497 59838 21451 49529 89856 28554
46493 39492 19042 60517 37473 47772 66941 35746 97184 05626
45673 36030 47021 48961 44180 20422 04213 37848 69626 76729
12723 29904 44134 45884 19953 38775 49951 79576 36515 11563
56686 84713 90961 39939 05215 62098 02589 30029 69093 49054
21176 94664 71546 02020 62029 75804 51622 63932 33182 16267
83512 67652 82111 30441 53135 60273 15876 00168 53052 62685
16192 06936 03771 18276 69109 85597 26823 27816 45067 71986
62759 98063 36120 19626 77954 29323 17863 21414 70910 74562
27304 60487 07445 88698 86951 36213 11320 89935 78925 50510

10721 86397 03245 74833 47532 28106 14572 19046 14766 36206
20626 75392 46444 30447 86765 23588 59420 58487 58748 19829
91030 46999 64611 64417 65454 31715 11725 50645 18770 43786
41325 62481 20775 65521 93669 66187 41603 38037 53969 02944
57947 58532 57368 92456 91981 38711 33014 58276 39087 57765
25337 92239 74291 79141 99154 48336 10588 98950 44964 26314
33020 20798 05540 49325 62970 64273 93008 51251 06796 56667
73440 04341 41648 07827 32337 58787 60798 17377 06147 76484
78735 16593 94428 07376 52928 59331 57350 54789 56651 40311
86027 12915 61490 00107 71934 85312 50221 64865 00921 61275
31805 30477 80402 62552 39527 55433 01843 61025 47080 76081
64015 04311

15884/14684/13484 kHz, 26-08/28-08, 1800/1820/1840 UTC

08226 00083 26891 74267 61700 11689 77693 67227 24263 73414
24692 77026 06385 06995 92350 31112 02444 83096 71803 72248
19665 99556 41614 89977 33909 01840 15964 12000 64552 64431
45849 84422 12488 82509 93011 75730 63681 24678 97877 47708
95114 85301 88533 78166 11800 31399 36204 01758 92117 79016
56004 11103 00244 59256 50744 50553 64818 24637 70428 61773
66611 28808 00084 77733 96171 35341 33841 39412 39644 39007
96677 71559 36023 58618 74167 19668 84128 79192 59933 83052
34736 07199 14533 51665 50509 51612

19164/18239/17451 kHz,, 1700/1720/1740 UTC
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19164/18239/17451 kHz, 06-08, 1700/1720/1740 UTC

09482 00001 00000 34271

19164/18239/17451 kHz, 11-08/13-08, 1700/1720/1740 UTC

04675 00203 45732 72836 06708 94063 58147 93648 25345 65243
20033 44185 30901 28712 57910 07655 27609 97006 33160 53564
96923 50560 79305 84336 62217 60626 04224 49728 32898 79533
68995 23898 51308 34010 46062 60782 79875 99483 47266 09832
94652 82745 71544 20020 38597 19774 71622 02333 01748 65601
03213 56179 72174 28687 33766 23983 10694 31074 06362 91662
73629 96154 36954 06365 62356 60051 16960 33573 84569 72042
72986 45740 17686 42338 01723 14262 72283 01330 97082 90145
48624 82923 68326 14985 13252 53347 15279 41120 37350 00615
10477 35934 57561 76301 71208 02478 29880 20196 43499 48710
38776 77547 85598 11081 66272 90995 35456 43634 98693 06710
98872 24841 70631 01183 00758 27486 52874 75123 47095 80095
88674 08727 52287 05565 58571 17094 80916 07975 30455 40942
50690 14990 74012 99489 01430 46974 25392 25496 55361 55591
13204 58311 54691 13849 91081 57812 88690 04074 04101 41053
04788 89120 83195 58965 66757 79862 37623 02459 17096 71353
91881 82976 31188 72476 39877 34230 15781 96067 33321 79154
10305 27526 27841 18489 62211 85737 32574 84657 46944 40820
86088 61017 73708 54614 12502 05441 35662 65637 58253 53442
30159 33907 34023 96180 05573 56121 15706 91472 14989 50730
02810 94594 48004 68361 07779 52465

19164/18239/17451 kHz, 18-08, 1700/1720/1740 UTC

01662 00001 00000 35257

19164/18239/17451 kHz, 20-08, 1700/1720/1740 UTC

08330 00001 00000 00140

19164/18239/17451 kHz, 25-08/27-08, 1700/1720/1740 UTC

08455 00212 63442 82809 71633 11699 71861 22115 05369 08364
92731 99002 59448 88362 38710 95555 14912 74119 10339 56399
46666 83266 32595 17859 77066 10482 95493 00607 22529 61500
76470 90785 05090 33111 46293 73308 40769 05485 77019 36229

35809 06537 88383 63855 56008 40480 42620 41378 10706 62232
95299 68437 69698 63191 25072 17477 03951 77758 41724 97519
06664 10054 66100 60443 26598 04768 36096 16665 00773 70654
98623 83766 29299 81621 32024 57057 77764 00977 98553 95537
61233 55890 86492 54577 91975 65033 34813 29289 36017 16653
77936 95186 13495 83017 81195 50200 03304 01091 83737 59160
93553 72932 68393 34346 17136 20222 82025 33644 05070 11227
59372 40274 10703 40943 29011 02155 89268 20443 36446 98858
66495 78044 03630 08213 02445 51834 21125 88688 10925 90168
61172 90220 15314 32642 58736 60809 48368 51537 94406 67431
96605 02363 94575 90123 08592 94242 26679 23400 32217 97945
40607 75258 92562 18103 96556 84257 72931 26680 75766 59946
00838 80314 61379 38841 20209 12161 17266 67046 68674 83911
61804 22900 58194 04956 99653 33652 68887 08249 42051 87935
94196 98897 93892 98649 02338 22953 42481 71694 01899 09922
18430 20553 16187 29599 05299 07146 02688 96701 76386 42164
46142 42592 63780 05279 02146 77320 86938 36834 42785 44810
17114 29006 14964 46671 58453 72661

13887/12187/10387 kHz, 1100/1120/1140 UTC

13887/12187/10387 kHz, 07-08, 1100/1120/1140 UTC

08509 00063 38444 41717 04107 61528 21544 16429 81237 99623
61383 76656 36408 78810 80300 16172 94130 24459 97938 02597
39636 97651 81710 74644 28382 44260 68784 55286 70263 56867
07210 12726 39113 09744 69969 74938 79833 08033 17515 47421
32649 49977 37612 48923 52730 22144 05004 37936 12088 31463
49521 10712 56662 54497 45919 10145 08084 21472 87494 50623
00791 08690 49314 07845 90713 67500

13887/12187/10387 kHz, 11-08, 1100/1120/1140 UTC

07436 00001 00000 10140

13887/12187/10387 kHz, 14-08, 1100/1120/1140 UTC

07505 00001 00000 10140

13887/12187/10387 kHz, 18-08, 1100/1120/1140 UTC

02959 00001 00000 10140

13887/12187/10387 kHz, 21-08, 1100/1120/1140 UTC

09005 00001 00000 10140

13887/12187/10387 kHz, 25-08/28-08, 1100/1120/1140 UTC

09123 00131 92624 89666 98076 43749 16153 97629 12896 08901
12403 61420 37896 06053 51196 36170 10893 41337 45033 29854
40424 68379 47510 33328 34106 39596 24739 16320 24699 76403
24938 56355 02340 93049 93384 51805 19949 54954 65167 35856
24811 69813 05774 27887 09853 40756 54211 78861 00503 39864
33147 10127 30335 91910 84818 29085 15643 01151 16490 86742
59867 46880 82797 79423 28016 89718 68139 62139 03689 19371
15904 97414 90178 34814 43332 93917 37848 26818 66049 88842
56823 88367 53537 65941 56891 58324 51878 84716 14415 39846
29012 98644 52146 55175 87007 59047 35185 31546 15544 04229
57227 22427 94353 92794 45938 67688 10638 48133 07425 85747
53012 93649 27215 88087 25169 63138 78012 48914 41374 34749
42177 67030 14214 67912 69370 52023 36839 48025 44916 45705
23281 72345 98894 71623

XPB1

Mon/Tue schedules

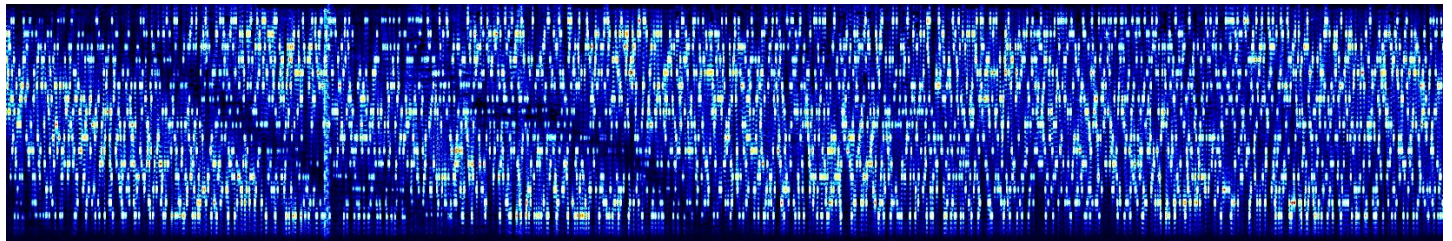
18451 kHz, 03-08/04-08/10-08/11-08/17-08/18-08/24-08/25-08/31-08, 0500 UTC
18051 kHz, 03-08/04-08/10-08/11-08/17-08/18-08/24-08/25-08/31-08, 0510 UTC
17451 kHz, 03-08/04-08/10-08/11-08/17-08/18-08/24-08/25-08/31-08, 0520 UTC
16251 kHz, 03-08/04-08/10-08/11-08/17-08/18-08/24-08/25-08/31-08, 0530 UTC
15851 kHz, 03-08/04-08/10-08/11-08/17-08/18-08/24-08/25-08/31-08, 0540 UTC
14451 kHz, 03-08/04-08/10-08/11-08/17-08/18-08/24-08/25-08/31-08, 0550 UTC

Tue/Fri schedules

20064 kHz, 04-08/07-08/11-08/14-08/18-08/21-08/25-08/28-08, 1300 UTC
19364 kHz, 04-08/07-08/11-08/14-08/18-08/21-08/25-08/28-08, 1310 UTC
18464 kHz, 04-08/07-08/11-08/14-08/18-08/21-08/25-08/28-08, 1320 UTC
17464 kHz, 04-08/07-08/11-08/14-08/18-08/21-08/25-08/28-08, 1330 UTC
16264 kHz, 04-08/07-08/11-08/14-08/18-08/21-08/25-08/28-08, 1340 UTC
15864 kHz, 04-08/07-08/11-08/14-08/18-08/21-08/25-08/28-08, 1350 UTC

Thu/Fri schedules

18451 kHz, 06-08/07-08/13-08/14-08/20-08/21-08/27-08/28-08, 0500 UTC
18051 kHz, 06-08/07-08/13-08/14-08/20-08/21-08/27-08/28-08, 0510 UTC
17451 kHz, 06-08/07-08/13-08/14-08/20-08/21-08/27-08/28-08, 0520 UTC
16251 kHz, 06-08/07-08/13-08/14-08/20-08/21-08/27-08/28-08, 0530 UTC
15851 kHz, 06-08/07-08/13-08/14-08/20-08/21-08/27-08/28-08, 0540 UTC
14451 kHz, 06-08/07-08/13-08/14-08/20-08/21-08/27-08/28-08, 0550 UTC



X--

19032 kHz, 20-08, 1035 UTC, MFSK-21/MFSK-13
18543 kHz, 20-08, 1039 UTC, MFSK-21/MFSK-13
16228 kHz, 20-08, 1042 UTC, MFSK-21/MFSK-13
14827 kHz, 20-08, 1046 UTC, MFSK-21/MFSK-13

RUSSIAN OPERATOR 7 TESTS

E07: 10735/11513/12197 kHz, 18-06, 0800/0850/0910 UTC

873 873 873 1 6434 135 6434 135
52985 02965 88885 01134 63361 98178 49266 71998 00622 49856
54827 01425 57305 78593 32049 01989 49917 12574 43958 54700
43923 04633 97712 09964 01806 46843 70848 27330 11014 03841
49698 34126 46389 24185 73342 85153 39067 44651 53911 25700
08329 19320 73593 83470 61343 93439 84931 75698 58788 99431
92707 07378 91047 95430 60928 48352 05252 78921 99327 16518
27329 21935 60983 96780 00157 20700 55034 33120 05250 46895
62921 05266 58662 18258 46371 24603 31038 14242 48619 08365
61910 95149 68541 11581 11132 42320 43078 50958 63255 24990
79901 60144 45323 37393 98369 86393 58335 76812 83312 40642
38405 51811 70447 11893 36510 87441 48714 72789 49059 36324
17313 91008 30302 90961 54606 32179 53393 49402 85647 57836
77621 04076 69863 80259 66992 02776 59942 21268 19887 59976
66267 54225 30928 07976 69959 000 000

E07: 10735 kHz, 18-06, 0930 UTC. Restart after group 123.

E07: 11513 kHz, 18-06, 0956 UTC. Restart after group 85.

E07: No third transmission

873 873 873 1 2837 135 2837 135
43699 37078 95706 41414 01372 17834 54941 06464 51988 52707
48902 06391 52389 97554 75407 75378 10696 20962 72335 95143
09226 96621 46072 02128 00105 46463 01648 05327 13847 29181
96014 23214 27008 69125 92838 93629 46073 12739 05476 02915
08553 50645 64407 42257 30252 88962 04432 01856 27245 60420
08402 18210 72039 32062 27388 47077 91005 93577 41308 54907
16185 49614 92616 22806 56691 21688 79382 83263 04716 81776
29305 77956 15485 69419 86590 58580 32214 03815 71875 11141
42031 99791 78081 53425 20779 77803 55174 94944 41737 45761
02624 52494 71429 50568 86728 58938 58028 41601 85564 08564
09580 21168 97139 45467 31115 30444 02724 02619 45471 68806
14863 87189 21701 30166 12876 16392 71532 39190 02026 78887
66512 84436 41525 58954 79151 76809 06527 64916 82689 27652
00551 90611 18249 63311 01561 000 000

E07: 10735 kHz, 18-06, 1020 UTC

E07: 11513 kHz, 18-06, 1040 UTC. Off after group 125

E07: No third transmission

873 873 873 1 5072 135 5072 135
58213 55194 93039 66570 84311 65451 80019 26515 97110 18847
83286 16333 64570 73350 45067 58678 73117 00007 91621 78147
73594 21211 56961 16060 98804 95714 58742 48563 79552 39963
21928 75831 78164 64932 39713 01824 70319 26295 13071 80732
48323 39228 53892 93454 66068 10286 63538 72852 19193 92810
94954 98787 75079 81495 32549 37001 98231 76979 67764 88595
06709 31455 46961 57146 96918 07455 38168 99637 33637 43243
88358 46822 86934 10889 29823 34366 67318 63506 49991 88518
32176 84888 29370 86741 45007 23139 00752 96667 32382 02711
03591 93339 58530 24474 74022 16867 92265 96745 96534 58613
72117 63899 39215 75948 04451 48132 11853 64189 51671 98181
69682 34725 26988 79244 56419 20820 02085 60219 12139 73779
06702 41499 67254 30925 39651 95018 88290 62459 36865 12956
42100 70572 66970 91376 16401 000 000

XPB1: 8154/9341/10429 kHz, 14-07, 0800/0810/0820 UTC. 2m15s TXs

XPB1: 8154/9341/10429 kHz, 14-07, 0900/0910/0920 UTC. 2m15s TXs

XPB1: 8154/9341/10429 kHz, 14-07, 1200/1210/1220 UTC. 2m15s TXs

XPB1: 8154/9341/10429 kHz, 14-07, 1300/1310/1320 UTC. 2m15s TXs

P07: 10719 kHz, 17-07, 0946 UTC. P07 variant, 2m 2-tones callup, 1 block

P07: 10719 kHz, 17-07, 0952 UTC. P07 variant, 2m 2-tones callup, 1 block

This P07 variant had the 1600/2100Hz DP01-style callup, a shorter preamble, and I'm unclear how many subchannels it had actually used. Strange presentation for the transmissions: I could not find any other on any other frequency.

There were mixed-mode tests for a week in August, always on the same 3-frequency cycle, although apparently some latter transmission slots didn't make it. Some M12 cycles strangely used 11-minute spacing between transmissions. 687 is a known Russian 7 test ID, and 123 is an obvious one too.

XPB1: 10250/9702/9445 kHz, 10-08, 1255/1300/1305 UTC 1m30s OXs

XPB1: 10250/9702/9445 kHz, 11-08, 1100/1105/1110 UTC 1m30s OXs

XPB1: 10250/9702/9445 kHz, 11-08, 1115/1120/1125 UTC MFSK-16/32bd. 2m OXs

P07: 10250/9702/9445 kHz, 10-08, 1315/1320/1325 UTC 1 block

P07: 10250/9702/9445 kHz, 11-08, 1130/1135/1140 UTC 1 block

10250 kHz, 11-08, 0853 UTC. Carrier for 2 hours

XPA2: 10250/9702 kHz, 11-08, 0720/0725 UTC

No 9445 kHz transmission

01475 00050 92507 93515 67126 10552 57995 66052 96940 97540
65006 86776 58625 31241 71138 99784 85650 27222 95169 61576
92694 89196 20595 84924 70176 66214 02062 46225 59270 28953
72372 93843 31770 57028 20754 49716 01552 09974 37176 81479
43787 70224 84629 90881 75812 40762 18335 36967 85421 50664
59934 58750 50726

XPA1: 10250 kHz, 11-08, 0820 UTC

No 9702/9445 kHz transmissions

186 186 186 1 186 186 186 1 186 186 186 1
06697 00042 45770 38015 84432 94385 45717 35344 39874 45630
12606 27252 84097 02099 20941 83818 86258 37487 62548 99910
03254 75869 96304 88956 79444 50154 48360 04367 56176 13381
78244 74007 84828 96096 82135 83438 39318 74003 97987 74287
18400 33891 22882 81773 34257

XPA2: 10250/9702 kHz, 11-08, 1145/1150 UTC

No 9445 kHz transmission

00161 00050 22491 48970 72070 59600 51553 38860 62228 97056
69428 36411 90059 44417 04662 77233 68883 22334 77946 33190
94100 61693 36695 07555 90377 13324 47301 82680 20801 59359
70835 84024 38009 60660 09496 30039 73452 51644 39355 66956
96733 27559 95036 18689 20569 51739 91458 87961 31319 81888
17336 12655 35632

XPA2: 10250/9702 kHz, 12-08, 1235/1240 UTC

No 9445 kHz transmission

00132 00051 41795 17903 84966 99913 31264 12614 91313 05027
96860 23423 07193 01813 34285 62503 26909 59988 08522 69229
29156 89701 38733 50384 00791 29054 89762 35420 44663 79269
85262 81967 70750 95962 25825 81583 52835 43250 94093 26391
86834 72335 57382 44722 45565 84472 54236 33295 85638 81551
89134 54725 33127 51471

M12: 10250/9702/9445 kHz, 10-08, 1220/1230/1240 UTC

687 687 687 1 6213 53 6213 53
32539 23178 02694 83428 50909 72431 29978 19610 92353 37348
63179 82469 32494 53777 25269 06160 64359 93832 31571 01147
03351 72033 94902 27467 59181 38169 00867 74996 38188 01880
82201 48536 14733 41857 87929 86967 02521 87313 78720 82385
38327 33148 78501 60346 16789 84690 79822 87329 54375 87139
00229 64431 25335 000 000

M12: 10250/9702/9445 kHz, 11-08, 0840/0851/0902 UTC

687 687 687 1 825 43 825 43
15816 51303 92731 13871 24767 56724 66224 94710 97449 65209
06976 40323 18705 39994 55675 06752 04308 53659 42849 92813
82384 25909 45674 16875 55803 22749 21584 28283 97938 26984
99576 35898 18448 97712 57321 60488 74281 93137 76075 32460
48729 35431 94193 000 000

M12: 10250/9702/9445 kHz, 12-08, 1140/1151/1202 UTC

123 123 123 1 176 51 176 51
93056 46475 84763 11242 36536 49054 46084 42177 04580 57703
78773 27715 86871 33378 44781 85749 57646 19811 10995 12868
32742 15850 28408 18410 83339 71021 03030 65262 25073 20406
74390 88648 32214 81480 56059 42574 14660 87184 65901 53764
36596 60354 55296 92183 62262 82503 29951 15086 25221 22379
48461 000 000

M12: 10250 kHz, 13-08, 0800 UTC

M12: No 9702/9445 kHz transmissions

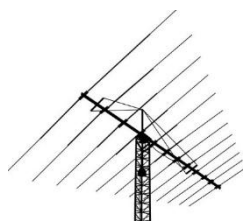
123 123 123 1 871 38 871 38
 31635 98567 29178 57060 80250 20654 76665 51161 29039 85414
 45194 36110 78017 34863 12218 46099 23511 07104 87013 96272
 82764 36617 68236 66182 96055 26712 75034 77725 54845 39080
 39033 85228 07846 23643 75093 85645 23464 63118 000 000

M12: 10250 kHz, 13-08, 0823 UTC
 123 123 123 1 123 123 123 1 12 off

M12: 10250/9702 kHz, 14-08, 1125/1135 UTC

M12: No 9445 kHz transmission

123 123 123 1 508 38 508 38
 49409 84043 10151 32983 33740 60601 73999 42294 39869 28145
 23105 50385 97962 09885 84488 37471 25697 00053 00179 74513
 35992 30641 82502 71634 13009 99985 38044 55942 86022 55218
 00342 54162 62588 60643 45164 90738 32088 31757 000 000



DIPLOMATIC STATIONS

Diplomatic stations: Bulgaria

14785 kHz, 14-06, 1034 UTC, RFSM-8000	Bulgarian diplo
14755 kHz, 18-08, 0823 UTC, RFSM-8000	Bulgarian diplo
14755 kHz, 19-08, 0823 UTC, RFSM-8000	Bulgarian diplo
17440 kHz, 19-08, 1222 UTC, RFSM-8000	Bulgarian diplo
14786 kHz, 20-08, 1026 UTC, RFSM-8000	Bulgarian diplo
14781 kHz, 20-08, 1300 UTC, RFSM-8000	Bulgarian diplo
17440 kHz, 21-08, 1223 UTC, RFSM-8000	Bulgarian diplo
14786 kHz, 28-08, 1023 UTC, RFSM-8000	Bulgarian diplo
14781 kHz, 28-08, 1305 UTC, RFSM-8000	Bulgarian diplo
17440 kHz, 28-08, 1224 UTC, RFSM-8000	Bulgarian diplo

Diplomatic stations: Egypt

18051.7 kHz, 07-08, 0719 UTC, SITOR-A 100/170	Egyptian diplo
18050.0 kHz, 07-08, 0721 UTC, CODAN	Egyptian diplo
16667.7 kHz, 11-08, 0813 UTC, SITOR-A 100/170	MFA Cairo clg XBVC: Egyptian embassy Vienna
16666.0 kHz, 11-08, 0815 UTC, CODAN	99903: MFA Cairo wkg 11106: Egyptian embassy Vienna

Diplomatic stations: North Korea

13100 kHz, 12-08, 1208 UTC, DPRK-ARQ 1200/600 LSB	DPRK embassy Rome wkg DPRK embassy Moscow
14350 kHz, 12-08, 1208 UTC, DPRK-ARQ 600/600 LSB	DPRK embassy Moscow wkg DPRK embassy Poland
14253 kHz, 12-08, 1215 UTC, DPRK-ARQ 600/600 LSB	DPRK embassy Rome wkg DPRK embassy Moscow.
	Messages 79, 81, 82 from Warsaw to Moscow and
	messages 2009, 2012, 2013, 2014 from Moscow to Warsaw

Diplomatic stations: Russia

14595 kHz, 02-08, 0658 UTC, MFSK-6	MFA Moscow clg 452163: Russian embassy Kabul
11490 kHz, 03-08, 0752 UTC, MFSK-66	Russian diplo
12157 kHz, 03-08, 0752 UTC, MFSK-6	MFA Moscow clg 165324: Russian embassy Vienna
13395 kHz, 03-08, 0806 UTC, MFSK-6	MFA Moscow clg 532614: Russian embassy Paris

15989 kHz, 03-08, 0747 UTC, MFSK-6	MFA Moscow clg 125643: Russian embassy Ulaanbaatar
12149 kHz, 04-08, 0829 UTC, MFSK-6	MFA Moscow clg 154263: Russian embassy Rome
14454 kHz, 05-08, 0630 UTC, Serdolik v2	Russian diplo
13838 kHz, 05-08, 0633 UTC, MFSK-6	MFA Moscow clg 256341: Russian embassy Beirut
14633 kHz, 05-08, 0833 UTC, MFSK-66	Russian diplo
16115 kHz, 05-08, 0833 UTC, MFSK-6	MFA Moscow clg 215346: Russian Consulate General Mumbai
20844 kHz, 06-08, 0933 UTC, MFSK-66	Russian diplo
18197 kHz, 06-08, 0936 UTC, MFSK-6	MFA Moscow clg 645321: Russian Consulate General Ho Chi Minh City
14824 kHz, 07-08, 1019 UTC, MFSK-6	MFA Moscow clg 625413: Russian embassy Tel Aviv
15710 kHz, 09-08, 0913 UTC, MFSK-6	MFA Moscow clg 261453: Russian embassy Cairo
19235 kHz, 10-08, 0932 UTC, MFSK-6	MFA Moscow clg 463125: Russian embassy Rabat
17523 kHz, 11-08, 0801 UTC, MFSK-6	MFA Moscow clg 542136: Russian embassy Beijing
16257 kHz, 11-08, 0805 UTC, MFSK-6	MFA Moscow clg 542136: Russian embassy Beijing
12177 kHz, 14-08, 0812 UTC, MFSK-66	Russian diplo
12195 kHz, 14-08, 0831 UTC, MFSK-66	Russian diplo
11473 kHz, 14-08, 0831 UTC, MFSK-66	Russian diplo
10653 kHz, 14-08, 0820 UTC, MFSK-6	MFA Moscow clg 356412: Russian embassy Berlin
12195 kHz, 14-08, 0847 UTC, MFSK-66	Russian diplo
13532 kHz, 14-08, 0631 UTC, Serdolik v2	Russian diplo
13532 kHz, 14-08, 0640 UTC, Serdolik v2	Russian diplo
14863 kHz, 14-08, 0744 UTC, MFSK-6	MFA Moscow clg 615243: Russian Permanent Mission to the UN, Geneva
13575 kHz, 14-08, 0748 UTC, MFSK-6	MFA Moscow clg 615243: Russian Permanent Mission to the UN, Geneva
12213 kHz, 14-08, 0802 UTC, MFSK-6	MFA Moscow clg 615243: Russian Permanent Mission to the UN, Geneva
15989 kHz, 18-08, 0749 UTC, MFSK-6	MFA Moscow clg 125643: Russian embassy Ulaanbataar
12149 kHz, 18-08, 0830 UTC, MFSK-6	MFA Moscow clg 154263: Russian embassy Rome
14801 kHz, 18-08, 0841 UTC, MFSK-66	Russian diplo
15989 kHz, 18-08, 0751 UTC, MFSK-6	MFA Moscow clg 125643: Russian embassy Ulaanbaatar
12149 kHz, 18-08, 0834 UTC, MFSK-6	MFA Moscow clg 154263: Russian embassy Rome
16336 kHz, 19-08, 0624 UTC, Serdolik v2	Russian diplo
17450 kHz, 20-08, 0928 UTC, MFSK-66	Russian diplo
18197 kHz, 20-08, 0932 UTC, MFSK-6	MFA Moscow clg 645321: Russian Consulate General Ho Chi Minh City
16277 kHz, 20-08, 1517 UTC, MFSK-6	MFA Moscow clg 436512: Russian embassy Harare
16278 kHz, 20-08, 1501 UTC, MFSK-66	Russian diplo
16060 kHz, 23-08, 0927 UTC, MFSK-6	MFA Moscow clg 261453: Russian embassy Cairo
15810 kHz, 23-08, 0943 UTC, MFSK-6	MFA Moscow clg 145632: Russian embassy Algiers
17523 kHz, 25-08, 0938 UTC, MFSK-6	MFA Moscow clg 542136: Russian embassy Beijing
11025 kHz, 25-08, 1142 UTC, MFSK-6	MFA Moscow clg 612534: Russian embassy Ashgabat



SPECIAL PURPOSE RADIO STATIONS

Iran related

15730 kHz, 02-08, 0549 UTC	Iran Intl TV. Jammed by Iran
15730 kHz, 06-08, 1300 UTC	Iran Intl TV. Jammed by Iran
17900 kHz, 11-08, 1100 UTC	Iran Intl. TV. Not jammed
9360 kHz, 30-08, 1652 UTC	Radio Farda jammed by Iran
15730 kHz, 30-08, 1657 UTC	Iran Intl TV. Not jammed
9360 kHz, 10-08, 0957 UTC	Radio Farda jammed by Iran
9360 kHz, 27-08, 1650 UTC	Radio Farda jammed by Iran

Russian-Ukrainian radio war

7055 kHz, 27-08, 1655 UTC	Music on top of another station
14113 kHz, 28-08, 1147 UTC	Anti Putin loop followed by a anti Russia song and a pro Ukraine message. Off at 1157z
14113 kHz, 28-08, 1211 UTC	Propaganda talks followed by the same song as before. Off at 1217z
7055 kHz, 28-08, 1601 UTC	Radio war



UTILITY ROUND-UP

Unid stations

6528 kHz, 04-08, 1024 kHz, cw. Logged by JPL

77777 (R) followed by high speed dots and groups

Series of fast dots then unreadable

0175 (R)

fast dots REG53 5SEEG54H U 0185 (R) unreaable 0413 (R) unreadble 0410 (R) 0914 (R) 0418 (R)

Unid CW net/beacon

Graham found an unid net/beacon. The XXX XXX indicator suggest that it is a Russian military net, but the message format is different. Logged by Graham (GC) and Trond (TJ)

6975.0 kHz, 25-08, 1934 UTC	XXX XXX SM 32111 R 69191 K followed by a long dash
6976.0 kHz, 25-08, 1939 UTC	XXX XXX SM 11211 R 33111 K followed by a long dash
6975.0 kHz, 26-08, 0702 UTC	XXX XXX SM 32111 R 69191 K followed by a long dash
6976.0 kHz, 26-08, 1818 UTC	XXX XXX SM 12211 R 33211 K followed by a long dash
6976.9 kHz, 26-08, 1822 UTC	XXX XXX MSK 090545 R 240222 K followed by a long dash
6975.0 kHz, 26-08, 1800 UTC	XXX XXX SM 32111 R 69191 K followed by a long dash
6976.0 kHz, 26-08, 1800 UTC	XXX XXX SM 11211 R 33211 k followed by a long dash
6975.0 kHz, 26-08, 2010 UTC	XXX XXX SM 32111 R 69191 K followed by a long dash
6976.0 kHz, 26-08, 2022 UTC	XXX XXX SM 11211 R 33111 K followed by a long dash
6976.9 kHz, 26-08, 2002 UTC	XXX XXX MSK 090545 R 240222 K followed by a long dash
6976.0 kHz, 27-08, 1810 UTC	XXX XXX SM 11211 R 33111 K followed by a long dash
6976.9 kHz, 27-08, 1810 UTC	XXX XXX MSK 090545 R 240222 K followed by a long dash
6975.0 kHz, 28-08, 1710 UTC	Not heard
6976.0 kHz, 28-08, 1710 UTC	XXX XXX SM 11211 R 33111 K followed by a long dash
6976.9 kHz, 28-08, 1710 UTC	XXX XXX MSK 090545 R 240222 K followed by a long dash
6975.0 kHz, 28-08, 1748 UTC	Not heard
6976.0 kHz, 28-08, 1748 UTC	XXX XXX SM 11211 R 33111 K followed by a long dash
6976.9 kHz, 28-08, 1748 UTC	XXX XXX MSK 090545 R 240222 K followed by a long dash
6975.0 kHz, 28-08, 1803 UTC	Not heard
6976.0 kHz, 28-08, 1803 UTC	XXX XXX SM 11211 R 33111 K followed by a long dash
6976.9 kHz, 28-08, 1803 UTC	XXX XXX MSK 090545 R 240222 K followed by a long dash
6975.0 kHz, 28-08, 1812 UTC	Not heard
6976.0 kHz, 28-08, 1812 UTC	XXX XXX SM 11211 R 33111 K followed by a long dash
6976.9 kHz, 28-08, 1812 UTC	XXX XXX MSK 090545 R 240222 K followed by a long dash
6975.0 kHz, 28-08, 1820 UTC	Not heard
6976.0 kHz, 28-08, 1820 UTC	XXX XXX SM 11211 R 33111 K followed by a long dash
6976.9 kHz, 28-08, 1820 UTC	XXX XXX MSK 090545 R 240222 K followed by a long dash



RUSSIAN MILITARY

Morse transmissions

14552 kHz, 21-08, 1240 UTC

XXX XXX JWB1 JWB1 27845 PERIODONTIT 0802 7571 WEKOWIS 0403 2514 GRADIENTNYJ 6280 2940 DIREKTRISA 6940 2226
XXX XXX JWB1 JWB1 27845 PERIODONTIT 0802 7571 WEKOWIS 0403 2514 GRADIENTNYJ 6280 2940 DIREKTRISA 6940 2226 K



CONTRIBUTORS

AB	Ary Boender, Netherlands
AB-ABW	Ary Boender via remote rx Aruba
AB-ARS	Ary Boender via remote rx Saudi Arabia
AB-AZR	Ary Boender via remote rx Azores
AB-BER	Ary Boender via remote rx Bermuda
AB-FIN	Ary Boender via remote rx Finland
AB-GRC	Ary Boender via remote rx Greece
AB-HNG	Ary Boender via remote rx Hungary
AB-IRL	Ary Boender via remote rx in Ireland
AB-J	Ary Boender via remote rx Japan
AB-KOR	Ary Boender via remote rx South Korea
AB-POL	Ary Boender via remote rx Poland
AB-QAT	Ary Boender via remote rx Qatar
AB-RUS	Ary Boender via remote rx Russia
AB-S	Ary Boender via remote rx Sweden
AB-USA	Ary Boender via remote rx USA
Anon	Anonymous
Fspy	Feline Spy SWL
GC2	Graham
HK	Hiroyuki Komatsubara, Japan
JPL	JPL, NB, Canada (and various remote rx)
Lac	Lazycrypt
Moon	Moonlight (Dave AU)
Pille	Pille
RL	Roberto Landolpho, Brazil
RO	Rando One, Sweden
Subilo	Subilo
T101	RadiotekhnikaT101 via Priyom
TJ	Trond Jacobsen, Norway
WO	Wofag



LOGBOOK

Code	Date	UTC	Freq	Day	Details	Mode	Contributor
BUL	14-8	1034	14785	Fri	Bulgarian diplo	RFSM-8000	(AB)
BUL	18-8	0823	14755	Tue	Bulgarian diplo	RFSM-8000	(AB)
BUL	19-8	0823	14755	Wed	Bulgarian diplo	RFSM-8000	(AB)
BUL	19-8	1222	17440	Wed	Bulgarian diplo	RFSM-8000	(AB)
BUL	20-8	1026	14786	Thu	Bulgarian diplo	RFSM-8000	(AB)
BUL	20-8	1300	14781	Thu	Bulgarian diplo	RFSM-8000	(AB)
BUL	21-8	1223	17440	Fri	Bulgarian diplo	RFSM-8000	(AB)
BUL	28-8	1023	14786	Fri	Bulgarian diplo	RFSM-8000	(AB)
BUL	28-8	1224	17440	Fri	Bulgarian diplo	RFSM-8000	(AB)
BUL	28-8	1305	14781	Fri	Bulgarian diplo	RFSM-8000	(AB)
E07	18-6	0830	10735	Thu	873 873 873 1 6434 135 6434 135 52985 02965 88885 ... 30928 07976 69959 000 000	USB	(PY)
E07	18-6	0850	11513	Thu	873 873 873 1 6434 135 6434 135 52985 02965 88885 ... 30928 07976 69959 000 000	USB	(PY)
E07	18-6	0910	12197	Thu	873 873 873 1 6434 135 6434 135 52985 02965 88885 ... 30928 07976 69959 000 000	USB	(PY)
E07	18-6	0930	10735	Thu	873 873 873 1 2837 135 2837 135 43699 37078 95706 ... 18249 63311 01561 000 000 Restart during the transmission	USB	(PY)
E07	18-6	0956	11513	Thu	873 873 873 1 2837 135 2837 135 43699 37078 95706 ... 18249 63311 01561 000 000 Restart during the transmission	USB	(PY)
E07	18-6	1020	10735	Thu	873 873 873 1 5072 135 5072 135 58213 55194 93039 ... 66970 91376 16401 000 000	USB	(PY)
E07	18-6	1040	11513	Thu	873 873 873 1 5072 135 5072 135 58213 55194 93039 ... off during group 125	USB	(PY)
E07	1-8	1000	18241	Sat	249 249 249 1 1091 176 1091 176 47273 89056 18752 ... 33586 49281 33596	USB	(AB/Lac)
E07	1-8	1020	17456	Sat	249 249 249 1 1091 176 1091 176 47273 89056 18752 ... 33586 49281 33596	USB	(AB/Lac)
E07	1-8	1040	15937	Sat	249 249 249 1 1091 176 1091 176 47273 89056 18752 ... 33586 49281 33596	USB	(AB/Lac)
E07	4-8	1500	17453	Tue	432 432 432 1 6473 105 6473 105 25004 26108 83536 ... 89003 79475 81978 000 000	USB	(AB/Lac)
E07	4-8	1520	18353	Tue	432 432 432 1 6473 105 6473 105 25004 26108 83536 ... 89003 79475 81978 000 000	USB	(AB/Lac)
E07	4-8	1540	19253	Tue	432 432 432 1 6473 105 6473 105 25004 26108 83536 ... 89003 79475 81978 000 000	USB	(AB/Lac)
E07	6-8	1000	18241	Thu	249 249 249 000	USB	(AB/Lac)
E07	6-8	1020	17456	Thu	249 249 249 000	USB	(AB/Lac)
E07	7-8	1500	17453	Fri	432 432 432 1 6473 105 6473 105 25004 26108 83536 ... 89003 79475 81978 000 000	USB	(AB)
E07	7-8	1520	18353	Fri	432 432 432 1 6473 105 6473 105 25004 26108 83536 ... 89003 79475 81978 000 000	USB	(AB)
E07	7-8	1540	19253	Fri	432 432 432 1 6473 105 6473 105 25004 26108 83536 ... 89003 79475 81978 000 000	USB	(AB)

E07	8-8	1000	18241	Sat	249 249 249 000	USB	(AB)
E07	8-8	1020	17456	Sat	249 249 249 000	USB	(AB)
E07	11-8	1500	17453	Tue	432 432 432 000	USB	(AB-IRL)
E07	11-8	1520	18353	Tue	432 432 432 000	USB	(AB-IRL)
E07	13-8	1000	18241	Thu	249 249 249 1 9148 179 9148 179 98077 01703 29946 ... 12416 27378 79014 000 000	USB	(AB/Lac)
E07	13-8	1020	17456	Thu	249 249 249 1 9148 179 9148 179 98077 01703 29946 ... 12416 27378 79014 000 000	USB	(AB/Lac)
E07	13-8	1040	15937	Thu	249 249 249 1 9148 179 9148 179 98077 01703 29946 ... 12416 27378 79014 000 000	USB	(AB/Lac)
E07	14-8	1500	17453	Fri	432 432 432 000	USB	(AB)
E07	14-8	1520	18353	Fri	432 432 432 000	USB	(AB)
E07	15-8	1000	18241	Sat	249 249 249 1 9148 179 9148 179 98077 01703 29946 ... 12416 27378 79014 000 000	USB	(AB)
E07	15-8	1020	17456	Sat	249 249 249 1 9148 179 9148 179 98077 01703 29946 ... 12416 27378 79014 000 000	USB	(AB)
E07	15-8	1040	15937	Sat	249 249 249 1 9148 179 9148 179 98077 01703 29946 ... 12416 27378 79014 000 000	USB	(AB)
E07	18-8	1500	17453	Tue	432 432 432 1 741 80 741 80 56621 72897 48454 ... 41247 31664 18082 000 000	USB	(AB)
E07	18-8	1520	18353	Tue	432 432 432 1 741 80 741 80 56621 72897 48454 ... 41247 31664 18082 000 000	USB	(AB)
E07	18-8	1540	19253	Tue	432 432 432 1 741 80 741 80 56621 72897 48454 ... 41247 31664 18082 000 000	USB	(AB)
E07	20-8	1000	18241	Thu	249 249 249 000	USB	(AB/Lac)
E07	20-8	1020	17456	Thu	249 249 249 000	USB	(AB/Lac)
E07	21-8	1500	17453	Fri	432 432 432 1 741 80 741 80 56621 72897 48454 ... 41247 31664 18082 000 000	USB	(AB/Lac)
E07	21-8	1520	18353	Fri	432 432 432 1 741 80 741 80 56621 72897 48454 ... 41247 31664 18082 000 000	USB	(AB/Lac)
E07	21-8	1540	19253	Fri	432 432 432 1 741 80 741 80 56621 72897 48454 ... 41247 31664 18082 000 000	USB	(AB/Lac)
E07	22-8	1000	18241	Sat	249 249 249 000	USB	(AB)
E07	22-8	1020	17456	Sat	249 249 249 000	USB	(AB)
E07	25-8	1500	17453	Tue	432 432 432 000	USB	(AB)
E07	25-8	1520	18353	Tue	432 432 432 000	USB	(AB)
E07	27-8	1000	18241	Thu	249 249 249 1 5883 183 5883 183 95411 74824 12267 ... 08329 08135 54504 000 000	USB	(AB/Lac)
E07	27-8	1025	17456	Thu	249 249 249 1 5883 183 5883 183 95411 74824 12267 ... 08329 08135 54504 000 000	USB	(AB/Lac)
E07	27-8	1051	15937	Thu	249 249 249 1 5883 183 5883 183 95411 74824 12267 ... 08329 08135 54504 000 000	USB	(AB/Lac)
E07	28-8	1500	17453	Fri	432 432 432 000	USB	(AB/Lac)
E07	28-8	1520	18353	Fri	432 432 432 000	USB	(AB/Lac)
E07	29-8	1000	18241	Sat	249 249 249 1 5883 183 5883 183 95411 74824 12267 ... 08329 08135 54504 000 000	USB	(AB/Lac)
E07	29-8	1025	17456	Sat	249 249 249 1 5883 183 5883 183 95411 74824 12267 ... 08329 08135 54504 000 000	USB	(AB/Lac)
E07	29-8	1051	15937	Sat	249 249 249 1 5883 183 5883 183 95411 74824 12267 ... 08329 08135 54504 000 000	USB	(AB/Lac)
E11	1-8	0700	7377	Sat	498/00 Out	USB	(AB/Lac)
E11	1-8	1430	12984	Sat	919/00 Out	USB	(AB/Lac)
E11	1-8	1610	4783	Sat	392/00 Out	USB	(AB/Lac)
E11	2-8	0600	9150	Sun	351/00 Out	USB	(AB/Lac)
E11	2-8	0700	7377	Sun	498/00 Out	USB	(AB/Lac)
E11	2-8	1605	5231	Sun	230/00 Out	USB	(AB)
E11	2-8	1645	5082	Sun	369/00 Out	USB	(AB)
E11	2-8	1745	14410	Sun	246/00 Out	USB	(AB)
E11	2-8	1815	12229	Sun	925/00 Out	USB	(AB)
E11	2-8	1910	9610	Sun	614/00 Out	USB	(AB)

E11	2-8	2000	5409	Sun	528/00 Out	USB	(AB)
E11	3-8	0600	21906	Mon	945/00 Out	USB	(AB-POL/Lac)
E11	3-8	0645	9339	Mon	410/00 Out	USB	(AB/Lac)
E11	3-8	0745	9610	Mon	266/00 Out	USB	(AB/Lac)
E11	3-8	0830	16335	Mon	188/00 Out	USB	(AB/Lac)
E11	3-8	0845	12815	Mon	718/00 Out	USB	(AB/Lac)
E11	3-8	1045	10210	Mon	698/00 Out	USB	(AB)
E11	3-8	1300	5737	Mon	319/00 Out	USB	(AB)
E11	3-8	1745	14410	Mon	245/00 Out	USB	(AB)
E11	4-8	0645	11092	Tue	570/00 Out	USB	(Lac)
E11	4-8	0700	8680	Tue	570/00 Out	USB	(AB/Lac)
E11	4-8	0745	20640	Tue	227/00 Out	USB	(Lac)
E11	4-8	0845	19184	Tue	155/00 Out	USB	(AB/Lac)
E11	4-8	0930	17378	Tue	134/00 Out	USB	(AB/Lac)
E11	4-8	1000	12153	Tue	300/00 Out	USB	(AB/Lac)
E11	4-8	1205	8274	Tue	462/00 Out	USB	(Lac)
E11	5-8	0600	21906	Wed	944/00 Out	USB	(AB/Lac)
E11	5-8	0645	9339	Wed	413/00 Out	USB	(Lac)
E11	5-8	0745	15720	Wed	344/00 Out	USB	(AB/Lac)
E11	5-8	0820	17378	Wed	135/00 Out	USB	(AB-POL/Lac)
E11	5-8	0845	12815	Wed	711/00 Out	USB	(AB/Lac)
E11	5-8	0930	6923	Wed	270/00 Out	USB	(AB/Lac)
E11	5-8	1045	10210	Wed	692/00 Out	USB	(AB)
E11	5-8	1205	8274	Wed	461/00 Out	USB	(AB)
E11	6-8	0645	11092	Thu	511/00 Out	USB	(AB/Lac)
E11	6-8	0745	20640	Thu	229/00 Out	USB	(AB/Lac)
E11	6-8	0845	19184	Thu	155/00 Out	USB	(AB/Lac)
E11	6-8	0930	6923	Thu	270/00 Out	USB	(AB/Lac)
E11	6-8	1300	5737	Thu	314/00 Out	USB	(AB/Lac)
E11	6-8	1530	10356	Thu	264/00 Out	USB	(AB/Lac)
E11	6-8	2000	5409	Thu	524/00 Out	USB	(AB/Lac)
E11	7-8	0600	9150	Fri	355/00 Out	USB	(AB/Lac)
E11	7-8	0700	8680	Fri	570/00 Out	USB	(AB/Lac)
E11	7-8	0830	16335	Fri	181/00 Out	USB	(AB)
E11	7-8	1000	12153	Fri	300/00 Out	USB	(AB)
E11	7-8	1020	15720	Fri	347/00 Out	USB	(AB-POL)
E11	7-8	1910	9610	Fri	616/00 Out	USB	(AB)
E11	8-8	0700	7377	Sat	492/00 Out	USB	(AB)
E11	8-8	1430	12984	Sat	914/00 Out	USB	(AB)
E11	8-8	1645	5082	Sat	368/00 Out	USB	(AB)
E11	9-8	0600	9150	Sun	352/00 Out	USB	(AB)
E11	9-8	0700	7377	Sun	491/00 Out	USB	(AB/Lac)

E11	9-8	1645	5082	Sun	369/00 Out	USB	(AB)
E11	9-8	1745	14410	Sun	247/00 Out	USB	(AB)
E11	9-8	1910	9610	Sun	617/00 Out	USB	(AB)
E11	9-8	2000	5409	Sun	525/00 Out	USB	(AB)
E11	10-8	0600	21906	Mon	948/00 Out	USB	(AB-POL)
E11	10-8	0715	15825	Mon	759/00 out	USB	(AB)
E11	10-8	0745	9610	Mon	261/00 Out	USB	(AB)
E11	10-8	0830	16335	Mon	183/00 Out	USB	(AB-POL)
E11	10-8	0845	12815	Mon	719/00 Out	USB	(AB)
E11	10-8	0900	11116	Mon	533/00 Out	USB	(AB)
E11	10-8	1045	10210	Mon	696/00 Out	USB	(AB)
E11	10-8	1300	5737	Mon	319/00 Out	USB	(AB)
E11	10-8	1745	14410	Mon	244/00 Out	USB	(AB)
E11	10-8	1900	7600	Mon	646/00 Out	USB	(AB)
E11	11-8	0715	10508	Tue	630/00 Out	USB	(AB)
E11	11-8	0845	19184	Tue	156/00 Out	USB	(AB)
E11	11-8	0930	17378	Tue	138/00 Out	USB	(AB)
E11	11-8	1430	12984	Tue	914/00 Out	USB	(AB)
E11	11-8	1605	5231	Tue	231/00 Out ?? poor signal	USB	(AB)
E11	11-8	1645	14575	Tue	337/00 Out	USB	(AB)
E11	12-8	0600	21906	Wed	942/00 Out	USB	(AB)
E11	12-8	0715	15825	Wed	750/00 out	USB	(AB)
E11	12-8	0745	15720	Wed	347/00 Out	USB	(AB)
E11	12-8	0820	17378	Wed	138/00 Out	USB	(AB-POL)
E11	12-8	0845	12815	Wed	715/00 Out	USB	(AB)
E11	12-8	0900	11116	Wed	537/00 Out	USB	(AB)
E11	12-8	0930	6923	Wed	279/00 Out	USB	(AB)
E11	12-8	1045	10210	Wed	690/00 Out	USB	(AB)
E11	12-8	1610	4783	Wed	390/00 Out	USB	(AB)
E11	12-8	1715	7863	Wed	974/00 Out	USB	(AB)
E11	13-8	0720	7984	Thu	431/00 Out	USB	(AB)
E11	13-8	0845	19184	Thu	154/00 Out	USB	(AB)
E11	13-8	0930	6923	Thu	276/00 Out	USB	(AB)
E11	13-8	1300	5737	Thu	316/00 Out	USB	(AB)
E11	13-8	1530	10356	Thu	269/00 Out	USB	(AB)
E11	13-8	1645	14575	Thu	333/00 Out	USB	(AB/Lac)
E11	13-8	1900	7600	Thu	641/00 Out	USB	(AB)
E11	13-8	2000	5409	Thu	527/00 Out	USB	(AB)
E11	14-8	0715	10508	Fri	637/00 Out	USB	(AB)
E11	14-8	0720	7984	Fri	436/00 Out	USB	(AB)
E11	14-8	0830	16335	Fri	181/00 Out	USB	(AB)
E11	14-8	1020	15720	Fri	348/00 Out	USB	(AB)

E11	14-8	1715	7863	Fri	975/00 Out	USB	(AB)
E11	14-8	1815	12229	Fri	924/00 Out	USB	(AB)
E11	14-8	1910	9610	Fri	612/00 Out	USB	(AB)
E11	15-8	0700	7377	Sat	492/00 Out	USB	(AB)
E11	15-8	1430	12984	Sat	917/00 Out	USB	(AB)
E11	15-8	1610	4783	Sat	390/00 Out	USB	(AB)
E11	15-8	1645	5082	Sat	369/00 Out	USB	(AB)
E11	16-8	0700	7377	Sun	490/00 Out	USB	(AB)
E11	16-8	1605	5231	Sun	231/00 Out	USB	(AB)
E11	16-8	1645	5082	Sun	366/00 Out	USB	(AB)
E11	16-8	1745	14410	Sun	240/00 Out	USB	(AB)
E11	16-8	1815	12229	Sun	922/00 Out	USB	(AB)
E11	16-8	1910	9610	Sun	618/00 Out	USB	(AB)
E11	16-8	2000	5409	Sun	522/00 Out	USB	(AB)
E11	17-8	0600	21906	Mon	940/00 Out	USB	(AB-POL/Lac)
E11	17-8	0645	9339	Mon	415/00 Out	USB	(AB/Lac)
E11	17-8	0715	15825	Mon	750/00 out	USB	(AB/Lac)
E11	17-8	0830	16335	Mon	184/00 Out	USB	(AB/Lac)
E11	17-8	0845	12815	Mon	714/00 Out	USB	(AB/Lac)
E11	17-8	0900	11116	Mon	530/00 Out	USB	(AB/Lac)
E11	17-8	1045	10210	Mon	691/00 Out	USB	(AB/Lac)
E11	17-8	1900	7600	Mon	649/00 Out	USB	(AB/Lac)
E11	18-8	0645	11092	Tue	515/00 Out	USB	(AB)
E11	18-8	0700	8680	Tue	576/00 Out	USB	(AB)
E11	18-8	0715	10508	Tue	637/00 Out	USB	(AB)
E11	18-8	0745	20640	Tue	224/00 Out	USB	(AB)
E11	18-8	0845	19184	Tue	150/00 Out	USB	(AB)
E11	18-8	1000	12153	Tue	300/00 Out	USB	(AB)
E11	18-8	1205	8274	Tue	460/00 Out	USB	(AB)
E11	18-8	1430	12984	Tue	919/00 Out	USB	(AB)
E11	18-8	1605	5231	Tue	238/00 Out	USB	(AB)
E11	18-8	1645	14575	Tue	337/00 Out	USB	(AB)
E11	19-8	0600	21906	Wed	949/00 Out	USB	(AB)
E11	19-8	0645	9339	Wed	414/00 Out	USB	(AB)
E11	19-8	0715	15825	Wed	757/00 out	USB	(AB-POL)
E11	19-8	0745	15720	Wed	347/00 Out	USB	(AB-POL)
E11	19-8	0845	12815	Wed	713/00 Out	USB	(AB)
E11	19-8	0900	11116	Wed	537/00 Out	USB	(AB)
E11	19-8	0930	6923	Wed	276/00 Out	USB	(AB)
E11	19-8	1045	10210	Wed	691/00 Out	USB	(AB)
E11	19-8	1205	8274	Wed	465/00 Out	USB	(AB)
E11	19-8	1610	4783	Wed	393/00 Out	USB	(AB)

E11	19-8	1715	7863	Wed	974/00 Out	USB	(AB/Lac)
E11	20-8	0645	11092	Thu	518/00 Out	USB	(AB/Lac)
E11	20-8	0720	7984	Thu	434/00 Out	USB	(AB/Lac)
E11	20-8	0745	20640	Thu	220/00 Out	USB	(AB/Lac)
E11	20-8	0845	19184	Thu	150/00 Out	USB	(AB/Lac)
E11	20-8	0930	6923	Thu	278/00 Out	USB	(AB/Lac)
E11	20-8	1645	14575	Thu	330/00 Out	USB	(AB/Lac)
E11	20-8	1900	7600	Thu	646/00 Out	USB	(AB)
E11	20-8	2000	5409	Thu	524/00 Out	USB	(AB)
E11	21-8	0600	9150	Fri	358/00 Out	USB	(AB)
E11	21-8	0700	8680	Fri	571/00 Out	USB	(AB)
E11	21-8	0715	10508	Fri	637/00 Out	USB	(AB)
E11	21-8	0720	7984	Fri	436/00 Out	USB	(AB)
E11	21-8	0830	16335	Fri	185/00 Out	USB	(AB)
E11	21-8	1000	12153	Fri	300/00 Out	USB	(AB)
E11	21-8	1020	15720	Fri	347/00 Out	USB	(AB)
E11	21-8	1715	7863	Fri	970/00 Out	USB	(AB/Lac)
E11	21-8	1815	12229	Fri	927/00 Out	USB	(AB/Lac)
E11	21-8	1910	9610	Fri	612/00 Out	USB	(AB/Lac)
E11	22-8	1430	12984	Sat	912/00 Out	USB	(AB)
E11	22-8	1610	4783	Sat	395/00 Out	USB	(AB)
E11	23-8	0600	9150	Sun	350/00 Out	USB	(AB)
E11	23-8	1605	5231	Sun	233/00 Out	USB	(AB)
E11	23-8	1815	12229	Sun	929/00 Out	USB	(AB)
E11	23-8	1910	9610	Sun	616/00 Out	USB	(AB)
E11	23-8	2000	5409	Sun	521/00 Out	USB	(AB)
E11	24-8	0645	9339	Mon	414/00 Out	USB	(AB/Lac)
E11	24-8	0715	15825	Mon	752/00 Out	USB	(AB/Lac)
E11	24-8	0745	9610	Mon	269/00 Out	USB	(AB/Lac)
E11	24-8	0900	11116	Mon	532/00 Out	USB	(AB/Lac)
E11	24-8	1300	5737	Mon	312/00 Out	USB	(AB/Lac)
E11	24-8	1745	14410	Mon	244/00 Out	USB	(AB/Lac)
E11	24-8	1900	7600	Mon	649/00 Out	USB	(AB)
E11	25-8	0645	11092	Tue	512/00 Out	USB	(AB/Lac)
E11	25-8	0700	8680	Tue	577/00 Out	USB	(AB)
E11	25-8	0715	10508	Tue	630/00 Out	USB	(AB)
E11	25-8	0745	20640	Tue	228/00 Out	USB	(AB-POL)
E11	25-8	0930	17378	Tue	136/00 Out	USB	(AB)
E11	25-8	1000	12153	Tue	305/00 Out	USB	(AB)
E11	25-8	1205	8274	Tue	464/00 Out	USB	(AB)
E11	25-8	1605	5231	Tue	236/00 Out	USB	(AB)
E11	25-8	1645	14575	Tue	330/00 Out	USB	(AB/Lac)

E11	26-8	0645	9339	Wed	416/00 Out	USB	(AB/Lac)
E11	26-8	0715	15825	Wed	753/00 Out	USB	(AB-POL)
E11	26-8	0820	17378	Wed	133/00 Out	USB	(AB/Lac)
E11	26-8	0900	11116	Wed	535/00 Out	USB	(AB)
E11	26-8	1205	8274	Wed	469/00 Out	USB	(AB/Lac)
E11	26-8	1610	4783	Wed	395/00 Out	USB	(AB/Lac)
E11	26-8	1715	7863	Wed	975/00 Out	USB	(AB/Lac)
E11	27-8	0645	11092	Thu	517/00 Out	USB	(AB/Lac)
E11	27-8	0720	7984	Thu	430/00 Out	USB	(AB/Lac)
E11	27-8	0745	20640	Thu	220/00 Out	USB	(AB/Lac)
E11	27-8	1300	5737	Thu	315/00 Out	USB	(AB/Lac)
E11	27-8	1530	10356	Thu	264/00 Out	USB	(AB/Lac)
E11	27-8	1645	14575	Thu	330/00 Out	USB	(AB/Lac)
E11	27-8	1900	7600	Thu	649/00 Out	USB	(AB/Lac)
E11	28-8	0600	9150	Fri	353/00 Out	USB	(AB)
E11	28-8	0700	8680	Fri	577/00 Out	USB	(AB/Lac)
E11	28-8	0715	10508	Fri	630/00 Out	USB	(AB/Lac)
E11	28-8	0720	7984	Fri	430/00 Out	USB	(AB/Lac)
E11	28-8	1000	12153	Fri	307/00 Out	USB	(AB/Lac)
E11	28-8	1715	7863	Fri	976/00 Out	USB	(AB/Lac)
E11	28-8	1815	12229	Fri	929/00 Out	USB	(AB/Lac)
E11	29-8	0700	7377	Sat	495/00 Out	USB	(AB/Lac)
E11	29-8	1610	4783	Sat	399/00 Out	USB	(AB/Lac)
E11	29-8	1645	5082	Sat	366/00 Out	USB	(AB/Lac)
E11	30-8	0600	9150	Sun	355/00 Out	USB	(AB)
E11	30-8	0700	7377	Sun	492/00 Out	USB	(AB/Lac)
E11	30-8	1605	5231	Sun	233/00 Out	USB	(AB/Lac)
E11	30-8	1645	5082	Sun	365/00 Out	USB	(AB/Lac)
E11	30-8	1745	14410	Sun	246/00 Out	USB	(AB/Lac)
E11	30-8	1815	12229	Sun	926/00 Out	USB	(AB/Lac)
E11	31-8	0600	21906	Mon	944/00 Out	USB	(AB/Lac)
E11	31-8	0645	9339	Mon	414/00 Out	USB	(AB/Lac)
E11	31-8	0715	15825	Mon	753/00 out	USB	(AB/Lac)
E11	31-8	0745	9610	Mon	261/00 Out	USB	(AB/Lac)
E11	31-8	0830	16335	Mon	181/00 Out	USB	(AB/Lac)
E11	31-8	0845	12815	Mon	713/00 Out	USB	(AB/Lac)
E11	31-8	0900	11116	Mon	538/00 Out	USB	(AB/Lac)
E11	31-8	1045	10210	Mon	698/00 Out	USB	(AB/Lac)
E11	31-8	1300	5737	Mon	314/00 Out	USB	(AB/Lac)
E11	31-8	1745	14410	Mon	242/00 Out	USB	(AB/Lac)
E11	31-8	1900	7600	Mon	640/00 Out	USB	(AB/Lac)
E11a	3-8	0315	16530	Mon	252/33 Attention 40870 36928 32003 ... 40634 19991 06731 Attention (msg rptd) Out	USB	(Subilo)

E11a	3-8	0715	15825	Mon	751/34 Attention 62212 35409 09409 ... 18036 81859 78947 Attention (msg rptd) out	USB	(AB/Lac/Subilo)
E11a	3-8	0900	11116	Mon	538/32 Attention 26292 67820 07187 ... 98186 60633 36657 Attention (msg rptd) Out	USB	(AB/Lac/Subilo)
E11a	3-8	1900	7600	Mon	644/38 Attention 76781 21209 35105 ... 50231 44064 35505 Attention (msg rptd) Out	USB	(AB/Subilo)
E11a	4-8	0715	10508	Tue	637/31 Attention 11384 86996 27035 ... 06514 23833 93452 Attention (msg rptd) Out	USB	(AB/Lac/Subilo)
E11a	4-8	1605	5231	Tue	231/31 Attention 68646 84296 28171 ... 73638 13200 58572 Attention (msg rptd) Out	USB	(AB/Lac/Subilo)
E11a	4-8	1645	14575	Tue	337/35 Attention 94377 01704 60457 ... 30600 66030 30735 Attention (msg rptd) Out	USB	Lac/(Subilo)
E11a	5-8	0315	16530	Wed	252/33 Attention 40870 36928 32003 ... 40634 19991 06731 Attention (msg rptd) Out	USB	(Subilo)
E11a	5-8	0715	15825	Wed	751/34 Attention 62212 35409 09409 ... 18036 81859 78947 Attention (msg rptd) out	USB	(AB/Lac)
E11a	5-8	0900	11116	Wed	538/32 Attention 26292 67820 07187 ... 98186 60633 36657 Attention (msg rptd) Out	USB	(AB/Lac/Subilo)
E11a	5-8	1610	4783	Wed	390/32 Attention 13943 23524 92176 ... 22272 68510 78492 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	5-8	1715	7863	Wed	972/38 Attention 83520 77753 29281 ... 10365 66422 62910 Attention (msg rptd) Out	USB	(AB/Lac/Subilo)
E11a	6-8	0720	7984	Thu	439/35 Attention 94299 63828 87721 ... 92700 34939 55308 Attention (msg rptd) Out	USB	(AB/Lac/Subilo)
E11a	6-8	1645	14575	Thu	337/35 Attention 94377 01704 60457 ... 30600 66030 30735 Attention (msg rptd) Out	USB	(AB/Lac/Subilo)
E11a	6-8	1900	7600	Thu	644/38 Attention 76781 21209 35105 ... 50231 44064 35505 Attention (msg rptd) Out	USB	(AB/Lac/Subilo)
E11a	7-8	0715	10508	Fri	637/31 Attention 11384 86996 27035 ... 06514 23833 93452 Attention (msg rptd) Out	USB	(AB/Lac/Subilo)
E11a	7-8	0720	7984	Fri	439/35 Attention 94299 63828 87721 ... 92700 34939 55308 Attention (msg rptd) Out	USB	(AB/Lac/Subilo)
E11a	7-8	1715	7863	Fri	972/38 Attention 83520 77753 29281 ... 10365 66422 62910 Attention (msg rptd) Out	USB	(AB/Subilo)
E11a	7-8	1815	12229	Fri	925/39 Attention 76591 34842 82433 ... 53536 73682 71744 Attention (msg rptd) Out	USB	(AB/Subilo)
E11a	8-8	1610	4783	Sat	390/32 Attention 13943 23524 92176 ... 22272 68510 78492 Attention (msg rptd) Out	USB	(AB)
E11a	9-8	1605	5231	Sun	232/31 Attention 70050 50154 35184 ... 90144 92507 77620 Attention (msg rptd) Out	USB	(AB)
E11a	10-8	0645	9339	Mon	413/35 Attention 50483 12187 75448 ... 53881 86423 98672 Attention (msg rptd) Out	USB	(AB/Subilo)
E11a	11-8	0645	11092	Tue	515/37 Attention 99544 47576 57460 ... 93649 67111 50419 Attention (msg rptd) Out	USB	(AB/Subilo)
E11a	11-8	0700	8680	Tue	573/35 Attention 15298 33352 63278 ... 30981 03404 37758 Attention (msg rptd) Out	USB	(AB/Subilo)
E11a	11-8	0745	20640	Tue	225/39 Attention 47186 86927 26432 ... 07502 42194 79054 Attention (msg rptd) Out	USB	(AB/Subilo)
E11a	11-8	1000	12153	Tue	305/26 Attention 49695 58135 61910 ... 41518 43950 59551 Attention (msg rptd) Out	USB	(AB/Subilo)
E11a	11-8	1205	8274	Tue	464/37 Attention 11992 44842 42233 ... 22634 12523 68848 Attention (msg rptd) Out	USB	(AB)
E11a	12-8	0645	9339	Wed	413/35 Attention 50483 12187 75448 ... 53881 86423 98672 Attention (msg rptd) Out	USB	(AB/Subilo)
E11a	12-8	1205	8274	Wed	464/37 Attention 11992 44842 42233 ... 22634 12523 68848 Attention (msg rptd) Out	USB	(AB)
E11a	13-8	0645	11092	Thu	515/37 Attention 99544 47576 57460 ... 93649 67111 50419 Attention (msg rptd) Out	USB	(AB/Subilo)
E11a	13-8	0745	20640	Thu	225/39 Attention 47186 86927 26432 ... 07502 42194 79054 Attention (msg rptd) Out	USB	(AB/Subilo)
E11a	14-8	0600	9150	Fri	354/37 Attention 96234 02168 14569 ... 68729 30667 41240 Attention (msg rptd) Out	USB	(AB)
E11a	14-8	0700	8680	Fri	573/35 Attention 15298 33352 63278 ... 30981 03404 37758 Attention (msg rptd) Out	USB	(AB/Subilo)
E11a	14-8	1000	12153	Fri	305/26 Attention 49695 58135 61910 ... 41518 43950 59551 Attention (msg rptd) Out	USB	(AB/Subilo)
E11a	16-8	0600	9150	Sun	354/37 Attention 96234 02168 14569 ... 68729 30667 41240 Attention (msg rptd) Out	USB	(AB)
E11a	17-8	0745	9610	Mon	266/33 Attention 20978 35712 02243 ... 35663 61080 35470 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	17-8	1300	5737	Mon	312/34 Attention 29843 63629 99831 ... 08579 37311 68336 Attention (msg rptd) Out	USB	(AB/Lac/Subilo)
E11a	17-8	1745	14410	Mon	246/36 Attention 23617 26882 89735 ... 14287 20240 28444 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	18-8	0930	17378	Tue	131/36 Attention 77041 46762 37990 ... 66901 25082 35854 Attention (msg rptd) Out	USB	(AB)
E11a	19-8	0820	17378	Wed	131/36 Attention 77041 46762 37990 ... 66901 25082 35854 Attention (msg rptd) Out	USB	(AB-POL)
E11a	20-8	1300	5737	Thu	312/34 Attention 29843 63629 99831 ... 08579 37311 68336 Attention (msg rptd) Out	USB	(AB/Lac/Subilo)
E11a	20-8	1530	10356	Thu	266/33 Attention 20978 35712 02243 ... 35663 61080 35470 Attention (msg rptd) Out	USB	(AB)
E11a	22-8	0700	7377	Sat	492/32 Attention 29380 55478 03567 ... 46958 70182 45875 Attention (msg rptd) out	USB	(AB/Subilo)

E11a	22-8	1645	5082	Sat	360/33 Attention 05580 57681 43016 ... 23719 01283 39487 Attention (msg rptd) Out	USB	(AB)
E11a	23-8	0700	7377	Sun	492/32 Attention 29380 55478 03567 ... 46958 70182 45875 Attention (msg rptd) out	USB	(AB/Lac/Subilo)
E11a	23-8	1645	5082	Sun	360/33 Attention 05580 57681 43016 ... 23719 01283 39487 Attention (msg rptd) Out	USB	(AB)
E11a	23-8	1745	14410	Sun	247/36 Attention 21326 98715 05889 ... 70353 68940 92673 Attention (msg rptd) Out	USB	(AB)
E11a	24-8	0600	21906	Mon	944/35 Attention 56760 71111 83525 ... 74933 63398 97033 Attention (msg rptd) Out	USB	(AB/Lac/Subilo)
E11a	24-8	0830	16335	Mon	183/35 Attention 86810 04429 46878 ... 69277 57681 71642 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	24-8	0845	12815	Mon	719/32 Attention 67880 47171 24954 ... 82552 53598 80566 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	24-8	1045	10210	Mon	692/35 Attention 11719 58734 60534 ... 29938 39964 26201 Attention (msg rptd) Out	USB	(AB/Lac/Subilo)
E11a	25-8	0845	19184	Tue	152/35 Attention 05083 95309 95705 ... 08907 32812 17946 Attention (msg rptd) Out	USB	(AB)
E11a	25-8	1430	12984	Tue	918/31 Attention 34666 74268 17128 ... 93477 18242 82657 Attention (msg rptd) Out	USB	(AB-POL)
E11a	26-8	0600	21906	Wed	949/35 Attention 68765 98985 04965 ... 78402 71943 26709 Attention (msg rptd) Out	USB	(AB)
E11a	26-8	0745	15720	Wed	349/31 Attention 88465 21523 18323 ... 51761 41481 49221 Attention (msg rptd) Out	USB	(AB-POL/Lac)
E11a	26-8	0845	12815	Wed	719/32 Attention 67880 47171 24954 ... 82552 53598 80566 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	26-8	0930	6923	Wed	278/36 Attention 79540 75247 21488 ... 50826 46858 10153 Attention (msg rptd) Out	USB	(AB/Lac/Subilo)
E11a	26-8	1045	10210	Wed	697/35 Attention 03248 12323 73499 ... 68727 37777 02657 Attention (msg rptd) Out	USB	(AB/Lac/Subilo)
E11a	27-8	0845	19184	Thu	152/35 Attention 05083 95309 95705 ... 08907 32812 17946 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	27-8	0930	6923	Thu	278/36 Attention 79540 75247 21488 ... 50826 46858 10153 Attention (msg rptd) Out	USB	(AB/Lac/Subilo)
E11a	27-8	2000	5409	Thu	527/39 Attention 75134 74843 19212 ... 76659 90624 29694 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	28-8	0830	16335	Fri	189/35 Attention 93185 66817 82424 ... 10585 25230 19169 Attention (msg rptd) Out	USB	(AB/Lac/Subilo)
E11a	28-8	1020	15720	Fri	349/31 Attention 88465 21523 18323 ... 51761 41481 49221 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	28-8	1910	9610	Fri	617/34 Attention 27163 51033 45333 ... 78943 66116 81304 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	29-8	1430	12984	Sat	918/31 Attention 34666 74268 17128 ... 93477 18242 82657 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	30-8	1910	9610	Sun	617/34 Attention 27163 51033 45333 ... 78943 66116 81304 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	30-8	2000	5409	Sun	527/39 Attention 75134 74843 19212 ... 76659 90624 29694 Attention (msg rptd) Out	USB	(AB/Lac)
EGY	7-8	0719	18051.7	Fri	Egyptian diplo	SITOR-A 100/170	(AB)
EGY	7-8	0721	18050	Fri	Egyptian diplo	CODAN	(AB)
EGY	11-8	0813	16667.7	Tue	MFA Cairo clg XBVC: Egyptian embassy Vienna	SITOR-A 100/170	(AB)
EGY	11-8	0815	16666	Tue	99903: MFA Cairo wkg 11106: Egyptian embassy Vienna	CODAN	(AB)
F01	3-8	1015	11076	Mon	Message 05	FSK 200/500	(AB-RUS)
F01	3-8	1025	9164	Mon	Message 05	FSK 200/500	(AB-RUS)
F01	3-8	1035	7316	Mon	Message 05	FSK 200/500	(AB-RUS)
F01	4-8	1015	11076	Tue	Messages 06 and 07	FSK 200/500	(Subilo)
F01	4-8	1025	9164	Tue	Messages 06 and 07	FSK 200/500	(Subilo)
F01	4-8	1035	7316	Tue	Messages 06 and 07	FSK 200/500	(Subilo)
F01	5-8	1015	11076	Wed	Message 08	FSK 200/500	(AB-RUS)
F01	5-8	1025	9164	Wed	Message 08	FSK 200/500	(AB-RUS)
F01	5-8	1035	7316	Wed	Message 08	FSK 200/500	(AB-RUS)
F01	6-8	1015	11076	Thu	Messages 09 and 10	FSK 200/500	(AB-RUS)
F01	6-8	1025	9164	Thu	Messages 09 and 10	FSK 200/500	(AB-RUS)
F01	6-8	1035	7316	Thu	Messages 09 and 10	FSK 200/500	(AB-RUS)
F01	7-8	1015	11076	Fri	00000 +++++ +++++	FSK 200/500	(AB-RUS)
F01	7-8	1025	9164	Fri	00000 +++++ +++++	FSK 200/500	(AB-RUS)

F01	7-8	1035	7316	Fri	00000 +++++ +++++	FSK 200/500	(AB-RUS)
F01	10-8	1015	11076	Mon	Message 11	FSK 200/500	(AB-RUS)
F01	10-8	1025	9164	Mon	Message 11	FSK 200/500	(AB-RUS)
F01	10-8	1035	7316	Mon	Message 11	FSK 200/500	(AB-RUS)
F01	11-8	1015	11076	Tue	Messages 12 and 13	FSK 200/500	(AB-RUS)
F01	11-8	1025	9164	Tue	Messages 12 and 13	FSK 200/500	(AB-RUS)
F01	11-8	1035	7316	Tue	Messages 12 and 13	FSK 200/500	(AB-RUS)
F01	12-8	1015	11076	Wed	Message 14	FSK 200/500	(AB-RUS)
F01	12-8	1025	9164	Wed	Message 14	FSK 200/500	(AB-RUS)
F01	12-8	1035	7316	Wed	Message 14	FSK 200/500	(AB-RUS)
F01	13-8	1015	11076	Thu	Messages 15 and 16	FSK 200/500	(AB-RUS)
F01	13-8	1025	9164	Thu	Messages 15 and 16	FSK 200/500	(AB-RUS)
F01	13-8	1035	7316	Thu	Messages 15 and 16	FSK 200/500	(AB-RUS)
F01	14-8	1015	11076	Fri	00000 +++++ +++++	FSK 200/500	(AB-RUS)
F01	14-8	1025	9164	Fri	00000 +++++ +++++	FSK 200/500	(AB-RUS)
F01	14-8	1035	7316	Fri	00000 +++++ +++++	FSK 200/500	(AB-RUS)
F01	17-8	1015	11076	Mon	Message 17	FSK 200/500	(AB-RUS)
F01	17-8	1025	9164	Mon	Message 17	FSK 200/500	(AB-POL)
F01	17-8	1035	7316	Mon	Message 17	FSK 200/500	(AB-POL)
F01	18-8	1015	11076	Tue	Messages 18 and 19	FSK 200/500	(AB-RUS)
F01	18-8	1025	9164	Tue	Messages 18 and 19	FSK 200/500	(AB-RUS)
F01	18-8	1035	7316	Tue	Messages 18 and 19	FSK 200/500	(AB-RUS)
F01	19-8	1015	11076	Wed	Message 20	FSK 200/500	(AB-RUS)
F01	19-8	1025	9164	Wed	Message 20	FSK 200/500	(AB-RUS)
F01	19-8	1035	7316	Wed	Message 20	FSK 200/500	(AB-RUS)
F01	20-8	1015	11076	Thu	Messages 21 and 22	FSK 200/500	(AB-RUS)
F01	20-8	1025	9164	Thu	Messages 21 and 22	FSK 200/500	(AB-RUS)
F01	20-8	1035	7316	Thu	Messages 21 and 22	FSK 200/500	(AB-RUS)
F01	21-8	1015	11076	Fri	00000 +++++ +++++	FSK 200/500	(AB-RUS)
F01	21-8	1025	9164	Fri	00000 +++++ +++++	FSK 200/500	(AB-RUS)
F01	21-8	1035	7316	Fri	00000 +++++ +++++	FSK 200/500	(AB-RUS)
F01	24-8	1015	11076	Mon	Message 23	FSK 200/500	(AB-RUS)
F01	24-8	1025	9164	Mon	Message 23	FSK 200/500	(AB-POL)
F01	24-8	1035	7316	Mon	Message 23	FSK 200/500	(AB-POL)
F01	25-8	1015	11076	Tue	Messages 24 and 25	FSK 200/500	(AB-RUS)
F01	25-8	1025	9164	Tue	Messages 24 and 25	FSK 200/500	(AB-RUS)
F01	25-8	1035	7316	Tue	Messages 24 and 25	FSK 200/500	(AB-RUS)
F01	26-8	1015	11076	Wed	Message 26	FSK 200/500	(AB-FIN)
F01	26-8	1025	9164	Wed	Message 26	FSK 200/500	(AB-RUS)
F01	26-8	1035	7316	Wed	Message 26	FSK 200/500	(AB-RUS)
F01	27-8	1015	11076	Thu	Messages 27 and 28	FSK 200/500	(AB-S)
F01	27-8	1025	9164	Thu	Messages 27 and 28	FSK 200/500	(AB-RUS)

F01	27-8	1035	7316	Thu	Messages 27 and 28	FSK 200/500	(AB-RUS)
F01	28-8	1015	11076	Fri	00000 +++++ +++++	FSK 200/500	(AB-RUS)
F01	28-8	1025	9164	Fri	00000 +++++ +++++	FSK 200/500	(AB-RUS)
F01	28-8	1035	7316	Fri	00000 +++++ +++++	FSK 200/500	(AB-RUS)
F01	31-8	1015	11076	Mon	Message 29	FSK 200/500	(AB-RUS)
F01	31-8	1025	9164	Mon	Message 29	FSK 200/500	(AB-POL)
F01	31-8	1035	7316	Mon	Message 29	FSK 200/500	(AB-POL)
F02	11-8	0800	14983	Tue	Russian domestic net	MFSK-4 150Bd/4000Hz	(AB)
F03j	3-8	0530	16530	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	3-8	0535	16530	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	3-8	0615	16335	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	3-8	0620	16335	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	3-8	0735	10210	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	3-8	0740	10210	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	3-8	0930	6923	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	3-8	0935	6923	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	3-8	1010	12984	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	3-8	1015	12984	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	5-8	0615	16335	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	5-8	0620	16335	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	5-8	0915	6304	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	5-8	0920	6304	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	5-8	1010	12984	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	5-8	1015	12984	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	5-8	1030	10246	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	5-8	1035	10246	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	6-8	0635	20994	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	6-8	0640	20994	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	6-8	0735	10210	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	6-8	0740	10210	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	6-8	0835	19099	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	6-8	0840	19099	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	6-8	0915	6304	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	6-8	0920	6304	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	7-8	0850	12202	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	7-8	0855	12202	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	7-8	0930	6923	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	7-8	0935	6923	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	7-8	0945	7763	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	7-8	0950	7763	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	10-8	0530	16530	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	10-8	0535	16530	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)

F03j	10-8	0615	16335	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	10-8	0620	16335	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	10-8	0735	10210	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	10-8	0740	10210	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	10-8	0930	6923	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	10-8	0935	6923	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	10-8	1010	12984	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	10-8	1015	12984	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	10-8	1030	10246	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	10-8	1035	10246	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	11-8	0530	9079	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	11-8	0535	9079	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	11-8	0725	17410	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	11-8	0730	17410	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	11-8	0810	12202	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	11-8	0815	12202	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	11-8	0835	19099	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	11-8	0840	19099	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	11-8	0920	18030	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	11-8	0925	18030	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	11-8	0945	7663	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	11-8	0950	7663	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	12-8	0615	16335	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	12-8	0620	16335	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	12-8	0915	6304	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	12-8	0920	6304	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	12-8	1010	12984	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	12-8	1015	12984	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	12-8	1030	10246	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	12-8	1035	10246	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	13-8	0530	9079	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	13-8	0535	9079	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	13-8	0635	20994	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	13-8	0640	20994	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	13-8	0725	17410	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	13-8	0730	17410	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	13-8	0735	10210	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	13-8	0740	10210	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	13-8	0835	19099	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	13-8	0840	19099	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	13-8	0915	6304	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	13-8	0920	6304	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)

F03j	14-8	0810	18773	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	14-8	0815	18773	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	14-8	0850	12202	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	14-8	0855	12202	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	14-8	0930	6923	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	14-8	0935	6923	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	14-8	0945	7763	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	14-8	0950	7763	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	17-8	0530	16530	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	17-8	0535	16530	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	17-8	0615	16335	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	17-8	0620	16335	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	17-8	0735	10210	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	17-8	0740	10210	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	17-8	0810	18773	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	17-8	0815	18773	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	17-8	0930	6923	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	17-8	0935	6923	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	17-8	1010	12984	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	17-8	1015	12984	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	17-8	1030	10246	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	17-8	1035	10246	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	18-8	0530	9079	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	18-8	0535	9079	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	18-8	0725	17410	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	18-8	0730	17410	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	18-8	0810	12202	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	18-8	0815	12202	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	18-8	0835	19099	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	18-8	0840	19099	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	18-8	0920	18030	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	18-8	0925	18030	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	18-8	0945	7663	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	18-8	0950	7663	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	19-8	0530	16530	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	19-8	0535	16530	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	19-8	0615	16335	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	19-8	0620	16335	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	19-8	0915	6304	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	19-8	0920	6304	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	19-8	1010	12984	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	19-8	1015	12984	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)

F03j	19-8	1030	10246	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	19-8	1035	10246	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	20-8	0530	9079	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	20-8	0535	9079	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	20-8	0635	20994	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	20-8	0640	20994	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	20-8	0725	17410	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	20-8	0730	17410	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	20-8	0735	10210	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	20-8	0740	10210	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	20-8	0835	19099	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	20-8	0840	19099	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	20-8	0915	6304	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	20-8	0920	6304	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	21-8	0810	18773	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	21-8	0815	18773	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	21-8	0850	12202	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	21-8	0855	12202	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	21-8	0930	6923	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	21-8	0935	6923	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	21-8	0945	7763	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	21-8	0950	7763	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	24-8	0530	16530	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	24-8	0535	16530	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	24-8	0615	16335	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	24-8	0620	16335	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	24-8	0735	10210	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	24-8	0740	10210	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	24-8	0810	18773	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	24-8	0815	18773	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	24-8	0930	6923	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	24-8	0935	6923	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	24-8	1010	12984	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	24-8	1015	12984	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	24-8	1030	10246	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	24-8	1035	10246	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	25-8	0530	9079	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	25-8	0535	9079	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	25-8	0725	17410	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	25-8	0730	17410	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	25-8	0810	12202	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	25-8	0815	12202	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)

F03j	25-8	0835	19099	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	25-8	0840	19099	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	25-8	0920	18030	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	25-8	0925	18030	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	25-8	0945	7663	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	25-8	0950	7663	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	26-8	0530	16530	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	26-8	0535	16530	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	26-8	0615	16335	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	26-8	0620	16335	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	26-8	0915	6304	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	26-8	0920	6304	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	26-8	1010	12984	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	26-8	1015	12984	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	26-8	1030	10246	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	26-8	1035	10246	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	27-8	0530	9079	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	27-8	0535	9079	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	27-8	0635	20994	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	27-8	0640	20994	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	27-8	0725	17410	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	27-8	0730	17410	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	27-8	0735	10210	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	27-8	0740	10210	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	27-8	0835	19099	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	27-8	0840	19099	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	27-8	0915	6304	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	27-8	0920	6304	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	28-8	0810	18773	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	28-8	0815	18773	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	28-8	0850	12202	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	28-8	0855	12202	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	28-8	0930	6923	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	28-8	0935	6923	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	28-8	0945	7763	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	28-8	0950	7763	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	31-8	0530	16530	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	31-8	0535	16530	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	31-8	0615	16335	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	31-8	0620	16335	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	31-8	0735	10210	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	31-8	0740	10210	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)

F03j	31-8	0810	18773	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	31-8	0815	18773	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	31-8	0930	6923	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	31-8	0935	6923	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	31-8	1010	12984	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	31-8	1015	12984	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	31-8	1030	10246	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	31-8	1035	10246	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03l	3-8	0950	10200	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03l	3-8	0955	10200	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03l	3-8	1830	6304	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03l	3-8	1835	6304	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03l	5-8	0950	10200	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
F03l	5-8	0955	10200	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
F03l	5-8	1100	7984	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
F03l	5-8	1105	7984	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
F03l	6-8	0615	12153	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03l	6-8	0620	12153	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03l	6-8	1800	12385	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03l	6-8	1805	12385	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03l	6-8	1830	6304	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03l	6-8	1835	6304	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03l	10-8	0950	10200	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03l	10-8	0955	10200	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03l	10-8	1830	6304	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03l	10-8	1835	6304	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03l	11-8	0615	12153	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03l	11-8	0620	12153	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03l	11-8	0635	20994	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03l	11-8	0640	20994	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03l	11-8	1100	7984	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03l	11-8	1105	7984	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03l	11-8	1800	12385	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03l	11-8	1805	12385	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03l	12-8	0950	10200	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
F03l	12-8	0955	10200	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
F03l	12-8	1100	7984	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
F03l	12-8	1105	7984	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
F03l	13-8	0615	12153	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03l	13-8	0620	12153	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03l	13-8	0700	8456	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03l	13-8	0705	8456	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)

F03I	13-8	1800	12385	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	13-8	1805	12385	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	13-8	1830	6304	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	13-8	1835	6304	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	14-8	0700	8456	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	14-8	0705	8456	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	17-8	0950	10200	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	17-8	0955	10200	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	17-8	1830	6304	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	17-8	1835	6304	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	18-8	0615	12153	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	18-8	0620	12153	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	18-8	0635	20994	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	18-8	0640	20994	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	18-8	1100	7984	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	18-8	1105	7984	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	18-8	1800	12385	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	18-8	1805	12385	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	19-8	0950	10200	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	19-8	0955	10200	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	19-8	1100	7984	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	19-8	1105	7984	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	20-8	0615	12153	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	20-8	0620	12153	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	20-8	0700	8456	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	20-8	0705	8456	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	20-8	1800	12385	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	20-8	1805	12385	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	20-8	1830	6304	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	20-8	1835	6304	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	21-8	0700	8456	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	21-8	0705	8456	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	24-8	0950	10200	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	24-8	0955	10200	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	24-8	1830	6304	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	24-8	1835	6304	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	25-8	0615	12153	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	25-8	0620	12153	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	25-8	0635	20994	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	25-8	0640	20994	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	25-8	1100	7984	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	25-8	1105	7984	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)

F03I	25-8	1800	12385	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	25-8	1805	12385	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	26-8	0950	10200	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	26-8	0955	10200	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	26-8	1100	7984	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	26-8	1105	7984	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	27-8	0615	12153	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	27-8	0620	12153	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	27-8	0700	8456	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	27-8	0705	8456	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	27-8	1800	12385	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	27-8	1805	12385	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	27-8	1830	6304	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	27-8	1835	6304	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	28-8	0700	8456	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	28-8	0705	8456	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	31-8	0950	10200	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	31-8	0955	10200	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	31-8	1830	6304	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	31-8	1835	6304	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F06	2-8	1530	22913	Sun	11166 10053 25843 02001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	2-8	1540	18241	Sun	11166 10053 25843 02001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	2-8	1550	17455	Sun	11166 10053 25843 02001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	3-8	0800	9362	Mon	11100 00000 15478 30055 01399	FSK 200/1000	(AB-RUS)
F06	3-8	0810	7984	Mon	11100 00000 15478 30055 01399	FSK 200/1000	(AB-RUS)
F06	3-8	0820	6802	Mon	11100 00000 15478 30055 01399	FSK 200/1000	(AB-RUS)
F06	4-8	0030	12139	Tue	11166 60070 97642 04001 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS)
F06	4-8	0040	9991	Tue	11166 60070 97642 04001 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS)
F06	4-8	0050	9175	Tue	11166 60070 97642 04001 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS)
F06	4-8	0700	11076	Tue	11166 70202 34852 03009 01079 and 11166 70202 37496 03010 02339	FSK 200/1000	(AB-RUS)
F06	4-8	0710	9053	Tue	11166 70202 34852 03009 01079 and 11166 70202 37496 03010 02339	FSK 200/1000	(AB-RUS)
F06	4-8	0720	7386	Tue	11166 70202 34852 03009 01079 and 11166 70202 37496 03010 02339	FSK 200/1000	(AB-RUS)
F06	4-8	0800	9362	Tue	11100 00000 15478 30055 01399	FSK 200/1000	(AB-RUS)
F06	4-8	0810	7984	Tue	11100 00000 15478 30055 01399	FSK 200/1000	(AB-RUS)
F06	4-8	0820	6802	Tue	11100 00000 15478 30055 01399	FSK 200/1000	(AB-RUS)
F06	4-8	1200	10394	Tue	11166 70202 34852 03009 01079 and 11166 70202 37496 03010 02339	FSK 200/1000	(AB)
F06	4-8	1210	8076	Tue	11166 70202 34852 03009 01079 and 11166 70202 37496 03010 02339	FSK 200/1000	(AB-RUS)
F06	4-8	1220	6768	Tue	11166 70202 34852 03009 01079 and 11166 70202 37496 03010 02339	FSK 200/1000	(AB-RUS)
F06	4-8	1650	20917	Tue	11166 10053 25718 04001 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS)
F06	4-8	1700	17529	Tue	11166 10053 25718 04001 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS)
F06	4-8	1710	15765	Tue	11166 10053 25718 04001 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS)
F06	6-8	0700	11076	Thu	11166 70202 96742 05012 01239 and 11166 70202 48156 05013 02139	FSK 200/1000	(AB-RUS)

F06	6-8	0710	9053	Thu	11166 70202 96742 05012 01239 and 11166 70202 48156 05013 02139	FSK 200/1000	(AB-RUS)
F06	6-8	0720	7386	Thu	11166 70202 96742 05012 01239 and 11166 70202 48156 05013 02139	FSK 200/1000	(AB-RUS)
F06	6-8	1200	10394	Thu	No transmission	FSK 200/1000	(AB)
F06	6-8	1210	8076	Thu	No transmission	FSK 200/1000	(AB-RUS)
F06	6-8	1220	6768	Thu	No transmission	FSK 200/1000	(AB-RUS)
F06	6-8	1330	17439	Thu	11166 80214 19458 05021 00049 00000 00000 00000 00000. Wrong date	FSK 200/1000	(AB)
F06	6-8	1340	13387	Thu	11166 80214 19458 05021 00049 00000 00000 00000 00000. Wrong date	FSK 200/1000	(AB)
F06	6-8	1350	11145	Thu	11166 80214 19458 05021 00049 00000 00000 00000 00000. Wrong date	FSK 200/1000	(AB)
F06	7-8	0700	11076	Fri	11166 70202 62854 07063 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS)
F06	7-8	0710	9053	Fri	11166 70202 62854 07063 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS)
F06	7-8	0720	7386	Fri	11166 70202 62854 07063 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS)
F06	9-8	1530	22913	Sun	11166 10053 79135 09001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	9-8	1540	18241	Sun	11166 10053 79135 09001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	9-8	1550	17455	Sun	11166 10053 79135 09001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	10-8	0800	9362	Mon	11100 00000 64852 07056 02739	FSK 200/1000	(AB-RUS)
F06	10-8	0810	7984	Mon	11100 00000 64852 07056 02739	FSK 200/1000	(AB-RUS)
F06	10-8	0820	6802	Mon	11100 00000 64852 07056 02739	FSK 200/1000	(AB-RUS)
F06	11-8	0030	12139	Tue	11166 60070 17935 11001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	11-8	0040	9991	Tue	11166 60070 17935 11001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	11-8	0050	9175	Tue	11166 60070 17935 11001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	11-8	0700	11076	Tue	11166 70202 78524 10015 00819 and 11166 70202 36940 10016 02239	FSK 200/1000	(AB-RUS)
F06	11-8	0710	9053	Tue	11166 70202 78524 10015 00819 and 11166 70202 36940 10016 02239	FSK 200/1000	(AB-RUS)
F06	11-8	0720	7386	Tue	11166 70202 78524 10015 00819 and 11166 70202 36940 10016 02239	FSK 200/1000	(AB-RUS)
F06	11-8	0800	9362	Tue	11100 00000 64852 07056 02739	FSK 200/1000	(AB-RUS)
F06	11-8	0810	7984	Tue	11100 00000 64852 07056 02739	FSK 200/1000	(AB-RUS)
F06	11-8	0820	6802	Tue	11100 00000 64852 07056 02739	FSK 200/1000	(AB-RUS)
F06	11-8	1200	10394	Tue	11166 70202 78524 10015 00819 and 11166 70202 36940 10016 02239	FSK 200/1000	(AB)
F06	11-8	1210	8076	Tue	11166 70202 78524 10015 00819 and 11166 70202 36940 10016 02239	FSK 200/1000	(AB-RUS)
F06	11-8	1220	6768	Tue	11166 70202 78524 10015 00819 and 11166 70202 36940 10016 02239	FSK 200/1000	(AB-RUS)
F06	11-8	1650	20917	Tue	11166 10053 63124 11001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	11-8	1700	17529	Tue	11166 10053 63124 11001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	11-8	1710	15765	Tue	11166 10053 63124 11001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	13-8	0700	11076	Thu	11166 70202 45612 12018 01179 and 11166 70202 12378 12019 02199	FSK 200/1000	(AB-RUS)
F06	13-8	0710	9053	Thu	11166 70202 45612 12018 01179 and 11166 70202 12378 12019 02199	FSK 200/1000	(AB-RUS)
F06	13-8	0720	7386	Thu	11166 70202 45612 12018 01179 and 11166 70202 12378 12019 02199	FSK 200/1000	(AB-RUS)
F06	13-8	1200	10394	Thu	11166 70202 45612 12018 01179 and 11166 70202 12378 12019 02199	FSK 200/1000	(AB)
F06	13-8	1210	8076	Thu	11166 70202 45612 12018 01179 and 11166 70202 12378 12019 02199	FSK 200/1000	(AB-RUS)
F06	13-8	1220	6768	Thu	11166 70202 45612 12018 01179 and 11166 70202 12378 12019 02199	FSK 200/1000	(AB-RUS)
F06	13-8	1330	17439	Thu	11166 80214 18745 12027 00049 00000 00000 00000 00000. Wrong date	FSK 200/1000	(AB)
F06	13-8	1340	13387	Thu	11166 80214 18745 12027 00049 00000 00000 00000 00000. Wrong date	FSK 200/1000	(AB)
F06	13-8	1350	11145	Thu	11166 80214 18745 12027 00049 00000 00000 00000 00000. Wrong date	FSK 200/1000	(AB)
F06	14-8	0700	11076	Fri	11100 70202 12456 14025 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS)

F06	14-8	0710	9053	Fri	11100 70202 12456 14025 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS)
F06	14-8	0720	7386	Fri	11100 70202 12456 14025 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS)
F06	16-8	1530	22913	Sun	11166 10053 15467 16001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	16-8	1540	18241	Sun	11166 10053 15467 16001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	16-8	1550	17455	Sun	11166 10053 15467 16001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	17-8	0800	9362	Mon	11100 00000 01563 14057 00979	FSK 200/1000	(AB-RUS)
F06	17-8	0810	7984	Mon	11100 00000 01563 14057 00979	FSK 200/1000	(AB-RUS)
F06	17-8	0820	6802	Mon	11100 00000 01563 14057 00979	FSK 200/1000	(AB-RUS)
F06	18-8	0030	12139	Tue	11166 60070 95184 18001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	18-8	0040	9991	Tue	11166 60070 95184 18001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	18-8	0050	9175	Tue	11166 60070 95184 18001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	18-8	0700	11076	Tue	11166 70202 16842 17021 01939 and 11166 70202 91435 17022 01759	FSK 200/1000	(AB-RUS)
F06	18-8	0710	9053	Tue	11166 70202 16842 17021 01939 and 11166 70202 91435 17022 01759	FSK 200/1000	(AB-RUS)
F06	18-8	0720	7386	Tue	11166 70202 16842 17021 01939 and 11166 70202 91435 17022 01759	FSK 200/1000	(AB-RUS)
F06	18-8	0800	9362	Tue	11100 00000 01563 14057 00979	FSK 200/1000	(AB-RUS)
F06	18-8	0810	7984	Tue	11100 00000 01563 14057 00979	FSK 200/1000	(AB-RUS)
F06	18-8	0820	6802	Tue	11100 00000 01563 14057 00979	FSK 200/1000	(AB-RUS)
F06	18-8	1200	10394	Tue	11166 70202 16842 17021 01939 and 11166 70202 91435 17022 01759	FSK 200/1000	(AB)
F06	18-8	1210	8076	Tue	11166 70202 16842 17021 01939 and 11166 70202 91435 17022 01759	FSK 200/1000	(AB-RUS)
F06	18-8	1220	6768	Tue	11166 70202 16842 17021 01939 and 11166 70202 91435 17022 01759	FSK 200/1000	(AB-RUS)
F06	18-8	1650	20917	Tue	11166 10053 25843 18001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	18-8	1700	17529	Tue	11166 10053 25843 18001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	18-8	1710	15765	Tue	11166 10053 25843 18001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	20-8	0700	11076	Thu	11166 70202 53691 19024 01739 and 11166 70202 45978 19025 01959	FSK 200/1000	(AB-RUS)
F06	20-8	0710	9053	Thu	11166 70202 53691 19024 01739 and 11166 70202 45978 19025 01959	FSK 200/1000	(AB-RUS)
F06	20-8	0720	7386	Thu	11166 70202 53691 19024 01739 and 11166 70202 45978 19025 01959	FSK 200/1000	(AB-RUS)
F06	20-8	1200	10394	Thu	11166 70202 53691 19024 01739 and 11166 70202 45978 19025 01959	FSK 200/1000	(AB)
F06	20-8	1210	8076	Thu	11166 70202 53691 19024 01739 and 11166 70202 45978 19025 01959	FSK 200/1000	(AB-RUS)
F06	20-8	1220	6768	Thu	11166 70202 53691 19024 01739 and 11166 70202 45978 19025 01959	FSK 200/1000	(AB-RUS)
F06	20-8	1330	17439	Thu	11166 80214 24689 20014 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	20-8	1340	13387	Thu	11166 80214 24689 20014 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	20-8	1350	11145	Thu	11166 80214 24689 20014 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	21-8	0700	11076	Fri	11166 70202 91435 21063 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS)
F06	21-8	0710	9053	Fri	11166 70202 91435 21063 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS)
F06	21-8	0720	7386	Fri	11166 70202 91435 21063 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS)
F06	23-8	1530	22913	Sun	11166 10053 25843 23001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	23-8	1540	18241	Sun	11166 10053 25843 23001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	23-8	1550	17455	Sun	11166 10053 25843 23001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	24-8	0800	9362	Mon	11100 00000 94382 21058 01239	FSK 200/1000	(AB-RUS)
F06	24-8	0810	7984	Mon	11100 00000 94382 21058 01239	FSK 200/1000	(AB-RUS)
F06	24-8	0820	6802	Mon	11100 00000 94382 21058 01239	FSK 200/1000	(AB-RUS)
F06	25-8	0030	12139	Tue	11166 60070 28537 25082 00049 00000 00000 00000 00000	FSK 200/1000	(AB)

F06	25-8	0040	9991	Tue	11166 60070 28537 25082 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	25-8	0050	9175	Tue	11166 60070 28537 25082 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	25-8	0700	11076	Tue	11166 70202 96352 24027 01759 and 11166 70202 48157 24028 01659	FSK 200/1000	(AB-RUS)
F06	25-8	0710	9053	Tue	11166 70202 96352 24027 01759 and 11166 70202 48157 24028 01659	FSK 200/1000	(AB-RUS)
F06	25-8	0720	7386	Tue	11166 70202 96352 24027 01759 and 11166 70202 48157 24028 01659	FSK 200/1000	(AB-RUS)
F06	25-8	0800	9362	Tue	11100 00000 94382 21058 01239	FSK 200/1000	(AB-RUS)
F06	25-8	0810	7984	Tue	11100 00000 94382 21058 01239	FSK 200/1000	(AB-RUS)
F06	25-8	0820	6802	Tue	11100 00000 94382 21058 01239	FSK 200/1000	(AB-RUS)
F06	25-8	1200	10394	Tue	11166 70202 96352 24027 01759 and 11166 70202 48157 24028 01659. Wrong shift	FSK 200/500	(AB)
F06	25-8	1210	8076	Tue	11166 70202 96352 24027 01759 and 11166 70202 48157 24028 01659	FSK 200/1000	(AB-RUS)
F06	25-8	1220	6768	Tue	11166 70202 96352 24027 01759 and 11166 70202 48157 24028 01659	FSK 200/1000	(AB-RUS)
F06	25-8	1650	20917	Tue	11166 10053 24813 25001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	25-8	1700	17529	Tue	11166 10053 24813 25001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	25-8	1710	15765	Tue	11166 10053 24813 25001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	27-8	0700	11076	Thu	11166 70202 83691 26030 01759 and 11166 70202 35978 26031 01979	FSK 200/1000	(AB-RUS)
F06	27-8	0710	9053	Thu	11166 70202 83691 26030 01759 and 11166 70202 35978 26031 01979	FSK 200/1000	(AB-RUS)
F06	27-8	0720	7386	Thu	11166 70202 83691 26030 01759 and 11166 70202 35978 26031 01979	FSK 200/1000	(AB-RUS)
F06	27-8	1200	10394	Thu	11166 70202 83691 26030 01759 and 11166 70202 35978 26031 01979	FSK 200/1000	(AB)
F06	27-8	1210	8076	Thu	11166 70202 83691 26030 01759 and 11166 70202 35978 26031 01979	FSK 200/1000	(AB-RUS)
F06	27-8	1220	6768	Thu	11166 70202 83691 26030 01759 and 11166 70202 35978 26031 01979	FSK 200/1000	(AB-RUS)
F06	27-8	1330	17439	Thu	11166 80214 83716 26023 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	27-8	1340	13387	Thu	11166 80214 83716 26023 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	27-8	1350	11145	Thu	11166 80214 83716 26023 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	28-8	0700	11076	Fri	11166 70202 12458 28001 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS)
F06	28-8	0710	9053	Fri	11166 70202 12458 28001 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS)
F06	28-8	0720	7386	Fri	11166 70202 12458 28001 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS)
F06	30-8	1530	22913	Sun	11166 10053 48751 30001 00049 00000 00000 00000 00000	FSK 200/1000	(AB-QAT)
F06	30-8	1540	18241	Sun	11166 10053 48751 30001 00049 00000 00000 00000 00000	FSK 200/1000	(AB-GRC)
F06	30-8	1550	17455	Sun	11166 10053 48751 30001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	31-8	0800	9362	Mon	11100 09777 30516 28029 04149	FSK 200/1000	(AB-RUS)
F06	31-8	0810	7984	Mon	11100 09777 30516 28029 04149	FSK 200/1000	(AB-RUS)
F06	31-8	0820	6802	Mon	11100 09777 30516 28029 04149	FSK 200/1000	(AB-RUS)
F06a	1-8	0600	12194	Sat	File 04456 (binary contents)	FSK 200/1000	(AB)
F06a	1-8	0615	11415	Sat	File 04456 (binary contents)	FSK 200/1000	(AB)
F06a	1-8	0630	10311	Sat	File 04456 (binary contents)	FSK 200/1000	(AB)
F06a	3-8	0700	11076	Mon	File 44408 (binary contents) Technical issues during the first minute. Signal drops	FSK 200/1000	(AB-RUS)
F06a	3-8	0715	9053	Mon	File 44408 (binary contents)	FSK 200/1000	(AB-RUS)
F06a	3-8	0730	7386	Mon	File 44408 (binary contents)	FSK 200/1000	(AB-RUS)
F06a	3-8	1200	10394	Mon	File 44408 (binary contents)	FSK 200/1000	(AB)
F06a	3-8	1215	8076	Mon	File 44408 (binary contents)	FSK 200/1000	(AB-RUS)
F06a	3-8	1230	6768	Mon	File 44408 (binary contents)	FSK 200/1000	(AB-RUS)
F06a	5-8	0600	13469	Wed	File 40407 (binary contents)	FSK 200/1000	(AB)

F06a	5-8	0615	16223	Wed	File 40407 (binary contents)	FSK 200/1000	(AB)
F06a	5-8	0630	17419	Wed	File 40407 (binary contents)	FSK 200/1000	(AB)
F06a	5-8	0700	11076	Wed	File 44411 (binary contents)	FSK 200/1000	(AB-RUS)
F06a	5-8	0715	9053	Wed	File 44411 (binary contents)	FSK 200/1000	(AB-RUS)
F06a	5-8	0730	7386	Wed	File 44411 (binary contents)	FSK 200/1000	(AB-RUS)
F06a	5-8	1200	10394	Wed	File 44411 (binary contents)	FSK 200/1000	(AB)
F06a	5-8	1215	8076	Wed	File 44411 (binary contents)	FSK 200/1000	(AB-RUS)
F06a	5-8	1230	6768	Wed	File 44411 (binary contents)	FSK 200/1000	(AB-RUS)
F06a	6-8	0600	13469	Thu	File 40407 (binary contents)	FSK 200/1000	(AB)
F06a	6-8	0615	16223	Thu	File 40407 (binary contents)	FSK 200/1000	(AB)
F06a	6-8	0630	17419	Thu	File 40407 (binary contents)	FSK 200/1000	(AB)
F06a	8-8	1600	25043	Sat	File 54464 (binary message)	FSK 200/1000	(AB-IRL)
F06a	8-8	1615	22891	Sat	File 54464 (binary message)	FSK 200/1000	(AB-IRL)
F06a	8-8	1630	20690	Sat	File 54464 (binary message)	FSK 200/1000	(AB-IRL)
F06a	9-8	1600	20129	Sun	File 54464 (binary message)	FSK 200/1000	(AB-IRL)
F06a	9-8	1615	19284	Sun	File 54464 (binary message)	FSK 200/1000	(AB-IRL)
F06a	9-8	1630	18309	Sun	File 54464 (binary message)	FSK 200/1000	(AB)
F06a	10-8	0700	11076	Mon	File 44414 (binary contents)	FSK 200/1000	(AB-RUS)
F06a	10-8	0715	9053	Mon	File 44414 (binary contents)	FSK 200/1000	(AB-RUS)
F06a	10-8	0730	7386	Mon	File 44414 (binary contents)	FSK 200/1000	(AB-RUS)
F06a	10-8	1200	10394	Mon	File 44414 (binary contents)	FSK 200/1000	(AB)
F06a	10-8	1215	8076	Mon	File 44414 (binary contents)	FSK 200/1000	(AB-RUS)
F06a	10-8	1230	6768	Mon	File 44414 (binary contents)	FSK 200/1000	(AB-RUS)
F06a	12-8	0600	13469	Wed	File 44108 (binary contents)	FSK 200/1000	(AB)
F06a	12-8	0600	13469	Wed	File 44108 (binary contents)	FSK 200/1000	(AB)
F06a	12-8	0615	16223	Wed	File 44108 (binary contents)	FSK 200/1000	(AB)
F06a	12-8	0615	16223	Wed	File 44108 (binary contents)	FSK 200/1000	(AB)
F06a	12-8	0630	17419	Wed	File 44108 (binary contents)	FSK 200/1000	(AB)
F06a	12-8	0630	17419	Wed	File 44108 (binary contents)	FSK 200/1000	(AB)
F06a	12-8	0700	11076	Wed	File 44417 (binary contents)	FSK 200/1000	(AB-RUS)
F06a	12-8	0715	9053	Wed	File 44417 (binary contents)	FSK 200/1000	(AB-RUS)
F06a	12-8	0730	7386	Wed	File 44417 (binary contents)	FSK 200/1000	(AB-RUS)
F06a	12-8	1200	10394	Wed	File 44417 (binary contents)	FSK 200/1000	(AB)
F06a	12-8	1215	8076	Wed	File 44417 (binary contents)	FSK 200/1000	(AB-RUS)
F06a	12-8	1230	6768	Wed	File 44417 (binary contents)	FSK 200/1000	(AB-RUS)
F06a	15-8	1600	25043	Sat	File 49465 (binary message)	FSK 200/1000	(AB-FIN)
F06a	15-8	1615	22891	Sat	File 49465 (binary message)	FSK 200/1000	(AB-S)
F06a	15-8	1630	20690	Sat	File 49465 (binary message)	FSK 200/1000	(AB-AZR)
F06a	16-8	1600	20129	Sun	File 49465 (binary message)	FSK 200/1000	(AB)
F06a	16-8	1615	19284	Sun	File 49465 (binary message)	FSK 200/1000	(AB)
F06a	16-8	1630	18309	Sun	File 49465 (binary message)	FSK 200/1000	(AB)
F06a	17-8	0700	11076	Mon	File 44420 (binary contents)	FSK 200/1000	(AB-RUS)

F06a	17-8	0715	9053	Mon	File 44420 (binary contents)	FSK 200/1000	(AB-RUS)
F06a	17-8	0730	7386	Mon	File 44420 (binary contents)	FSK 200/1000	(AB-RUS)
F06a	17-8	1200	10394	Mon	File 44420 (binary contents)	FSK 200/1000	(AB)
F06a	17-8	1215	8076	Mon	File 44420 (binary contents)	FSK 200/1000	(AB-RUS)
F06a	17-8	1230	6768	Mon	File 44420 (binary contents)	FSK 200/1000	(AB-RUS)
F06a	19-8	0600	13469	Wed	File 24409 (binary contents)	FSK 200/1000	(AB)
F06a	19-8	0615	16223	Wed	File 24409 (binary contents)	FSK 200/1000	(AB)
F06a	19-8	0630	17419	Wed	File 24409 (binary contents)	FSK 200/1000	(AB)
F06a	19-8	0700	11076	Wed	File 44423 (binary contents)	FSK 200/1000	(AB)
F06a	19-8	0715	9053	Wed	File 44423 (binary contents)	FSK 200/1000	(AB-RUS)
F06a	19-8	0730	7386	Wed	File 44423 (binary contents)	FSK 200/1000	(AB-RUS)
F06a	19-8	1200	10394	Wed	File 44423 (binary contents)	FSK 200/1000	(AB)
F06a	19-8	1215	8076	Wed	File 44423 (binary contents)	FSK 200/1000	(AB-RUS)
F06a	19-8	1230	6768	Wed	File 44423 (binary contents)	FSK 200/1000	(AB-RUS)
F06a	20-8	0600	13469	Thu	File 24409 (binary contents)	FSK 200/1000	(AB)
F06a	20-8	0615	16223	Thu	File 24409 (binary contents)	FSK 200/1000	(AB)
F06a	20-8	0630	17419	Thu	File 24409 (binary contents)	FSK 200/1000	(AB)
F06a	22-8	1600	25043	Sat	File 44866 (binary message)	FSK 200/1000	(AB-ARS)
F06a	22-8	1615	22891	Sat	File 44866 (binary message)	FSK 200/1000	(AB-ARS)
F06a	22-8	1630	20690	Sat	File 44866 (binary message)	FSK 200/1000	(AB)
F06a	23-8	1600	20129	Sun	File 44866 (binary message)	FSK 200/1000	(AB)
F06a	23-8	1615	19284	Sun	File 44866 (binary message)	FSK 200/1000	(AB)
F06a	23-8	1630	18309	Sun	File 44866 (binary message)	FSK 200/1000	(AB)
F06a	24-8	0700	11076	Mon	File 44426 (binary contents)	FSK 200/1000	(AB-RUS)
F06a	24-8	0715	9053	Mon	File 44426 (binary contents)	FSK 200/1000	(AB-RUS)
F06a	24-8	0730	7386	Mon	File 44426 (binary contents)	FSK 200/1000	(AB-RUS)
F06a	24-8	1200	10394	Mon	File 44426 (binary contents)	FSK 200/1000	(AB)
F06a	24-8	1215	8076	Mon	File 44426 (binary contents)	FSK 200/1000	(AB-RUS)
F06a	24-8	1230	6768	Mon	File 44426 (binary contents)	FSK 200/1000	(AB-RUS)
F06a	26-8	0600	13469	Wed	File 43410 (binary contents)	FSK 200/1000	(AB)
F06a	26-8	0615	16223	Wed	File 43410 (binary contents)	FSK 200/1000	(AB)
F06a	26-8	0630	17419	Wed	File 43410 (binary contents)	FSK 200/1000	(AB)
F06a	26-8	0700	11076	Wed	File 44429 (binary contents)	FSK 200/1000	(AB)
F06a	26-8	0715	9053	Wed	File 44429 (binary contents)	FSK 200/1000	(AB-RUS)
F06a	26-8	0730	7386	Wed	File 44429 (binary contents)	FSK 200/1000	(AB-RUS)
F06a	26-8	1200	10394	Wed	File 44429 (binary contents)	FSK 200/1000	(AB)
F06a	26-8	1215	8076	Wed	File 44429 (binary contents)	FSK 200/1000	(AB-RUS)
F06a	26-8	1230	6768	Wed	File 44429 (binary contents)	FSK 200/1000	(AB-RUS)
F06a	27-8	0600	13469	Thu	File 43410 (binary contents)	FSK 200/1000	(AB)
F06a	27-8	0615	16223	Thu	File 43410 (binary contents)	FSK 200/1000	(AB)
F06a	27-8	0630	17419	Thu	File 43410 (binary contents)	FSK 200/1000	(AB)
F06a	28-8	1900	15763	Fri	File 40457 (binary contents)	FSK 200/1000	(AB)

F06a	28-8	1915	14513	Fri	File 40457 (binary contents)	FSK 200/1000	(AB)
F06a	28-8	1930	13531	Fri	File 40457 (binary contents)	FSK 200/1000	(AB)
F06a	29-8	0600	12131	Sat	File 40457 (binary contents)	FSK 200/1000	(AB)
F06a	29-8	0615	11092	Sat	File 40457 (binary contents)	FSK 200/1000	(AB)
F06a	29-8	0630	10208	Sat	File 40457 (binary contents)	FSK 200/1000	(AB)
F06a	29-8	1600	25043	Sat	Not heard	FSK 200/1000	(AB-ARS)
F06a	29-8	1615	22891	Sat	Barely audible	FSK 200/1000	(AB-ARS)
F06a	29-8	1630	20690	Sat	Not heard	FSK 200/1000	(AB)
F06a	30-8	1600	20129	Sun	File 74467 (binary contents)	FSK 200/1000	(AB-IRL)
F06a	30-8	1615	19284	Sun	File 74467 (binary contents)	FSK 200/1000	(AB-IRL)
F06a	30-8	1630	18309	Sun	File 74467 (binary contents)	FSK 200/1000	(AB-IRL)
F06a	31-8	0700	11076	Mon	File 44432 (binary contents)	FSK 200/1000	(AB-RUS)
F06a	31-8	0715	9053	Mon	File 44432 (binary contents)	FSK 200/1000	(AB-RUS)
F06a	31-8	0730	7386	Mon	File 44432 (binary contents)	FSK 200/1000	(AB-RUS)
F06a	31-8	1200	10394	Mon	File 44432 (binary contents)	FSK 200/1000	(AB)
F06a	31-8	1215	8076	Mon	File 44432 (binary contents)	FSK 200/1000	(AB-RUS)
F06a	31-8	1230	6768	Mon	File 44432 (binary contents)	FSK 200/1000	(AB-RUS)
F07	4-8	2000	16263	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	4-8	2010	15852	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	4-8	2020	14968	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	4-8	2030	14417	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	4-8	2040	13478	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	4-8	2050	12143	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	6-8	2000	16263	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	6-8	2010	15852	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	6-8	2020	14968	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	6-8	2030	14417	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	6-8	2040	13478	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	6-8	2050	12143	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	11-8	2000	16263	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	11-8	2010	15852	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	11-8	2020	14968	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	11-8	2030	14417	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	11-8	2040	13478	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	11-8	2050	12143	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	13-8	2000	16263	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	13-8	2010	15852	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	13-8	2020	14968	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	13-8	2030	14417	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	13-8	2040	13478	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	13-8	2050	12143	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	18-8	2000	16263	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)

F07	18-8	2010	15852	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	18-8	2020	14968	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	18-8	2030	14417	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	18-8	2040	13478	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	18-8	2050	12143	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	20-8	2000	16263	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	20-8	2010	15852	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	20-8	2020	14968	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	20-8	2030	14417	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	20-8	2040	13478	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	20-8	2050	12143	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	25-8	2000	16263	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	25-8	2010	15852	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	25-8	2020	14968	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	25-8	2030	14417	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	25-8	2040	13478	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	25-8	2050	12143	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	27-8	2000	16263	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	27-8	2010	15852	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	27-8	2020	14968	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	27-8	2030	14417	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	27-8	2040	13478	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	27-8	2050	12143	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
KRE	12-8	1208	13100	Wed	DPRK embassy Rome wkg DPRK embassy Moscow	DPRK-ARQ 1200/600 LSB	(AB)
KRE	12-8	1208	14350	Wed	DPRK embassy Moscow wkg DPRK embassy Poland	DPRK-ARQ 600/600 LSB	(AB)
KRE	12-8	1215	14253	Wed	DPRK embassy Rome wkg DPRK embassy Moscow. Msgs 79, 81, 82 from Warsaw to Moscow and msgs 2009, 2012, 2013, 2014 from Moscow to Warsaw	DPRK-ARQ 600/600 LSB	(AB)
M01	1-8	0715	9736	Sat	475 62258 13487 11397 ... 57084 32268 83188 000. No key and group count	CW USB no carrier	(PY)
M01	1-8	1500	6435	Sat	025 827 827 30 30 = = 24575 37954 08587 ... 26841 15736 98005 827 827 30 30 000	CW	(AB)
M01	4-8	2000	4903	Tue	025 845 845 30 30 = = 87695 46574 36451 ... 22132 38795 57541 = = 845 845 30 30 000	CW	(AB)
M01	6-8	1800	5280	Thu	025 818 819 30 30 = = (too weak to copy)	CW	(AB)
M01	6-8	1959	4903	Thu	025 638 638 30 30 = = 37954 16847 07842 ... 35771 75489 05489 = = 638 638 30 30 000	CW	(AB)
M01	8-8	1501	6435	Sat	025 (R1m21s) silence (2m33s) 025 363 363 30 30 = = 85734 28675 49897 ... 69878 86754 58343 = = 363 363 30 30 000	CW	(AB-S)
M01	11-8	2000	4903	Tue	025 111 111 30 30 = = 67564 67564 11112 ... 67345 98675 34254 = = 111 111 30 30 000	CW	(AB)
M01	15-8	1500	6435	Sat	025 341 341 30 30 = = 13245 97666 35109 ... 87541 30097 83219 = = 341 341 30 30 000	CW	(AB-S)
M01	20-8	1800	5280	Thu	025 ... (too weak to copy)	CW	(AB)
M01	20-8	2000	4903	Thu	025 892 892 30 30 = = 85764 37564 39807 ... 40980 68591 16573 = = 892 892 30 30 000	CW	(AB)
M01	22-8	1500	6435	Sat	025 938 938 30 30 = = ...	CW	(AB-S)
M01	25-8	1800	5280	Tue	025 657 657 30 30 = = 65018 22091 38716 ... 37616 91176 27618 = = 657 637 30 30 000	CW	(AB-S)
M01	25-8	2000	4903	Tue	025 908 908 30 30 = = 10928 20918 30918 ... 42561 28716 33091 = = 908 908 30 30 000	CW	(AB)
M01	27-8	1800	5280	Thu	025 196 196 30 30 = = 75632 12256 08944 ... 22437 07674 09965 = = 196 196 30 30 000	CW	(AB)

M01	27-8	2000	4903	Thu	025 818 818 = = 08997 35423 (too poor to copy)	CW	(AB)
M12	1-7	2310	17461	Wed	Active	CW	(FD)
M12	1-7	2330	14814	Wed	Active	CW	(FD)
M12	1-7	2350	13471	Wed	Active	CW	(FD)
M12	5-7	2310	17461	Sun	Active	CW	(Fd)
M12	5-7	2330	14814	Sun	Active	CW	(FD)
M12	5-7	2350	13471	Sun	Active	CW	(FD)
M12	8-7	2310	17461	Wed	Active	CW	(Fd)
M12	8-7	2330	14814	Wed	Active	CW	(FD)
M12	8-7	2350	13471	Wed	Active	CW	(FD)
M12	12-7	2310	17461	Sun	487 487 487 1 7228 98 7228 98 37371 82621 89043 ... 61171 97287 98397 000 000	CW	(PY)
M12	12-7	2330	14814	Sun	487 487 487 1 7228 98 7228 98 37371 82621 89043 ... 61171 97287 98397 000 000	CW	(PY)
M12	12-7	2350	13471	Sun	487 487 487 1 7228 98 7228 98 37371 82621 89043 ... 61171 97287 98397 000 000	CW	(PY)
M12	15-7	2310	17461	Wed	Active. Too weak top copy	CW	(PY)
M12	15-7	2330	14814	Wed	Active. Too weak top copy	CW	(PY)
M12	15-7	2350	13471	Wed	Active. Too weak top copy	CW	(PY)
M12	19-7	2310	17461	Sun	487 487 487 1 5652 64 5652 64 20171 44192 53903 ... 94960 41848 57281 000 000	CW	(PY)
M12	19-7	2330	14814	Sun	487 487 487 1 5652 64 5652 64 20171 44192 53903 ... 94960 41848 57281 000 000	CW	(PY)
M12	19-7	2350	13471	Sun	487 487 487 1 5652 64 5652 64 20171 44192 53903 ... 94960 41848 57281 000 000	CW	(PY)
M12	22-7	2310	17461	Wed	487 487 487 1 6668 98 6669 98 80459 80543 36643 ... 24257 68789 03211 000 000	CW	(PY)
M12	22-7	2330	14814	Wed	487 487 487 1 6668 98 6669 98 80459 80543 36643 ... 24257 68789 03211 000 000	CW	(PY)
M12	22-7	2350	13471	Wed	487 487 487 1 6668 98 6669 98 80459 80543 36643 ... 24257 68789 03211 000 000	CW	(PY)
M12	26-7	2310	17461	Sun	Active. Too weak top copy	CW	(PY)
M12	26-7	2330	14814	Sun	Active. Too weak top copy	CW	(PY)
M12	26-7	2350	13471	Sun	Active. Too weak top copy	CW	(PY)
M12	29-7	2310	17461	Wed	487 487 487 1 3529 115 3529 115 11124 43449 06960 ... 59909 65154 17050 000 000	CW	(PY)
M12	29-7	2330	14814	Wed	487 487 487 1 3529 115 3529 115 11124 43449 06960 ... 59909 65154 17050 000 000	CW	(PY)
M12	29-7	2350	13471	Wed	487 487 487 1 3529 115 3529 115 11124 43449 06960 ... 59909 65154 17050 000 000	CW	(PY)
M12	1-8	1900	9319	Sat	258 258 258 1 9167 263 9167 263 90059 62427 34948 ...	CW	(AB)
M12	1-8	1900	11564	Sat	258 258 258 1 9167 263 9167 263 90059 62427 34948 ...	CW	(AB)
M12	1-8	1920	10487	Sat	258 258 258 1 9167 263 9167 263 90059 62427 34948 ...	CW	(AB)
M12	1-8	2100	12189	Sat	146 146 146 000	CW	(AB)
M12	1-8	2120	13475	Sat	146 146 146 000	CW	(AB)
M12	2-8	1900	13409	Sun	397 397 397 1 9209 195 9209 195 32137 93234 98959 ... 93444 14003 02162 000 000	CW	(AB)
M12	2-8	1920	12195	Sun	397 397 397 1 9209 195 9209 195 32137 93234 98959 ... 93444 14003 02162 000 000	CW	(AB)
M12	2-8	1940	11526	Sun	397 397 397 1 9209 195 9209 195 32137 93234 98959 ... 93444 14003 02162 000 000	CW	(AB)
M12	2-8	2310	17461	Sun	881 881 881 1 3529 115 3529 115 11124 43449 06960 ... 59909 65154 17050 000 000	CW	(PY)
M12	2-8	2330	14814	Sun	881 881 881 1 3529 115 3529 115 11124 43449 06960 ... 59909 65154 17050 000 000	CW	(PY)
M12	2-8	2350	13471	Sun	881 881 881 1 3529 115 3529 115 11124 43449 06960 ... 59909 65154 17050 000 000	CW	(PY)
M12	3-8	0800	13457	Mon	419 419 419 000	CW	(AB)
M12	3-8	0820	12161	Mon	419 419 419 000	CW	(AB)
M12	3-8	1900	13409	Mon	397 397 397 1 1612 153 1612 153 13109 20470 66047 ... 94508 72287 47554 000 000	CW	(AB)

M12	3-8	1920	12195	Mon	397 397 397 1 1612 153 1612 153 13109 20470 66047 ... 94508 72287 47554 000 000	CW	(AB)
M12	3-8	1940	11526	Mon	397 397 397 1 1612 153 1612 153 13109 20470 66047 ... 94508 72287 47554 000 000	CW	(AB)
M12	6-8	1900	11564	Thu	258 0258 258 1 5387 278 5387 278 75130 06529 96969 ... 08495 60385 10457 000 000	CW	(AB)
M12	6-8	1920	10487	Thu	258 0258 258 1 5387 278 5387 278 75130 06529 96969 ... 08495 60385 10457 000 000	CW	(AB)
M12	6-8	1940	9319	Thu	258 0258 258 1 5387 278 5387 278 75130 06529 96969 ... 08495 60385 10457 000 000	CW	(AB)
M12	7-8	0800	13457	Fri	419 419 419 000	CW	(AB)
M12	7-8	0820	12161	Fri	419 419 419 000	CW	(AB)
M12	7-8	2100	12189	Fri	146 146 146 1 9373 74 9373 74 74563 60401 73555 ... 78377 65961 75120 000 000	CW	(AB)
M12	7-8	2120	13475	Fri	146 146 146 1 9373 74 9373 74 74563 60401 73555 ... 78377 65961 75120 000 000	CW	(AB)
M12	7-8	2140	14643	Fri	146 146 146 1 9373 74 9373 74 74563 60401 73555 ... 78377 65961 75120 000 000	CW	(AB)
M12	8-8	1900	11564	Sat	258 0258 258 1 5387 278 5387 278 75130 06529 96969 ... 08495 60385 10457 000 000	CW	(AB)
M12	8-8	1920	10487	Sat	258 0258 258 1 5387 278 5387 278 75130 06529 96969 ... 08495 60385 10457 000 000	CW	(AB)
M12	8-8	1940	9319	Sat	258 0258 258 1 5387 278 5387 278 75130 06529 96969 ... 08495 60385 10457 000 000	CW	(AB)
M12	8-8	2100	12189	Sat	146 146 146 1 9373 74 9373 74 74563 60401 73555 ... 78377 65961 75120 000 000	CW	(AB)
M12	8-8	2120	13475	Sat	146 146 146 1 9373 74 9373 74 74563 60401 73555 ... 78377 65961 75120 000 000	CW	(AB)
M12	8-8	2140	14643	Sat	146 146 146 1 9373 74 9373 74 74563 60401 73555 ... 78377 65961 75120 000 000	CW	(AB)
M12	9-8	1900	13409	Sun	397 397 397 1 1612 153 1612 153 13109 20470 66047 ... 94508 72287 47554 000 000	CW	(AB)
M12	9-8	1920	12195	Sun	397 397 397 1 1612 153 1612 153 13109 20470 66047 ... 94508 72287 47554 000 000	CW	(AB)
M12	9-8	1940	11526	Sun	397 397 397 1 1612 153 1612 153 13109 20470 66047 ... 94508 72287 47554 000 000	CW	(AB)
M12	9-8	2310	17461	Sun	881 881 881 1 1432 219 1432 219 70547 74134 74513 ... 20302 24271 28850 000 000	CW	(PY)
M12	9-8	2330	14814	Sun	881 881 881 1 1432 219 1432 219 70547 74134 74513 ... 20302 24271 28850 000 000	CW	(PY)
M12	9-8	2350	13471	Sun	881 881 881 1 1432 219 1432 219 70547 74134 74513 ... 20302 24271 28850 000 000	CW	(PY)
M12	10-8	0800	13457	Mon	419 419 419 1 2968 134 2968 134 35601 58179 15903 ... 11854 18724 54760 000 000	CW	(AB)
M12	10-8	0820	12161	Mon	419 419 419 1 2968 134 2968 134 35601 58179 15903 ... 11854 18724 54760 000 000	CW	(AB)
M12	10-8	0840	10928	Mon	419 419 419 1 2968 134 2968 134 35601 58179 15903 ... 11854 18724 54760 000 000	CW	(AB)
M12	10-8	1220	10250	Mon	687 687 687 1 6213 53 6213 53 32539 23178 02694 ... 00229 64431 25335 000 000	CW	(PY)
M12	10-8	1230	9702	Mon	687 687 687 1 6213 53 6213 53 32539 23178 02694 ... 00229 64431 25335 000 000	CW	(PY)
M12	10-8	1240	9445	Mon	687 687 687 1 6213 53 6213 53 32539 23178 02694 ... 00229 64431 25335 000 000	CW	(PY)
M12	10-8	1900	13409	Mon	397 397 397 1 6278 151 6278 151 60541 37803 30840 ... 07563 18993 22074 000 000	CW	(AB)
M12	10-8	1920	12195	Mon	397 397 397 1 6278 151 6278 151 60541 37803 30840 ... 07563 18993 22074 000 000	CW	(AB)
M12	10-8	1940	11526	Mon	397 397 397 1 6278 151 6278 151 60541 37803 30840 ... 07563 18993 22074 000 000	CW	(AB)
M12	11-8	0840	10250	Tue	687 687 687 1 825 43 825 43 15816 51303 92731 ... 48729 35431 94193 000 000	CW	(PY)
M12	11-8	0851	9702	Tue	687 687 687 1 825 43 825 43 15816 51303 92731 ... 48729 35431 94193 000 000	CW	(PY)
M12	11-8	0902	9445	Tue	687 687 687 1 825 43 825 43 15816 51303 92731 ... 48729 35431 94193 000 000	CW	(PY)
M12	12-8	1140	10250	Wed	123 123 123 1 176 51 176 51 93056 46475 84763 ... 25221 22379 48461 000 000	CW	(PY)
M12	12-8	1151	9702	Wed	123 123 123 1 176 51 176 51 93056 46475 84763 ... 25221 22379 48461 000 000	CW	(PY)
M12	12-8	1202	9445	Wed	123 123 123 1 176 51 176 51 93056 46475 84763 ... 25221 22379 48461 000 000	CW	(PY)
M12	13-8	0800	10250	Thu	123 123 123 1 871 38 871 38 31635 98567 29178 ... 85645 23464 63118 000 000	CW	(PY)
M12	13-8	0823	10250	Thu	123 123 123 1 123 123 123 1 12 off	CW	(PY)
M12	13-8	1900	11564	Thu	258 258 258 1 2248 279 2248 279 08346 34539 09514 ... 02503 06658 23874 000 000	CW	(AB)
M12	13-8	1920	10487	Thu	258 258 258 1 2248 279 2248 279 08346 34539 09514 ... 02503 06658 23874 000 000	CW	(AB)
M12	13-8	1940	9319	Thu	258 258 258 1 2248 279 2248 279 08346 34539 09514 ... 02503 06658 23874 000 000	CW	(AB)

M12	14-8	0800	13457	Fri	419 419 419 1 2968 134 2968 134 35601 58179 15903 ... 11854 18724 54760 000 000	CW	(AB)
M12	14-8	0820	12161	Fri	419 419 419 1 2968 134 2968 134 35601 58179 15903 ... 11854 18724 54760 000 000	CW	(AB)
M12	14-8	0840	10928	Fri	419 419 419 1 2968 134 2968 134 35601 58179 15903 ... 11854 18724 54760 000 000	CW	(AB)
M12	14-8	1125	10250	Fri	123 123 123 1 508 38 508 38 49409 84043 10151 ... 90738 32088 31757 000 000	CW	(PY)
M12	14-8	1135	9702	Fri	123 123 123 1 508 38 508 38 49409 84043 10151 ... 90738 32088 31757 000 000	CW	(PY)
M12	14-8	2100	12189	Fri	146 146 146 1 9373 74 9373 74 74563 60401 73555 ... 78377 65961 75120 000 000	CW	(AB)
M12	14-8	2120	13475	Fri	146 146 146 1 9373 74 9373 74 74563 60401 73555 ... 78377 65961 75120 000 000	CW	(AB)
M12	14-8	2140	14643	Fri	146 146 146 1 9373 74 9373 74 74563 60401 73555 ... 78377 65961 75120 000 000	CW	(AB)
M12	15-8	1900	11564	Sat	258 258 258 1 2248 279 2248 279 08346 34539 09514 ... 02503 06658 23874 000 000	CW	(AB)
M12	15-8	1920	10487	Sat	258 258 258 1 2248 279 2248 279 08346 34539 09514 ... 02503 06658 23874 000 000	CW	(AB)
M12	15-8	1940	9319	Sat	258 258 258 1 2248 279 2248 279 08346 34539 09514 ... 02503 06658 23874 000 000	CW	(AB)
M12	15-8	2100	12189	Sat	146 146 146 1 9373 74 9373 74 74563 60401 73555 ... 78377 65961 75120 000 000	CW	(AB)
M12	15-8	2120	13475	Sat	146 146 146 1 9373 74 9373 74 74563 60401 73555 ... 78377 65961 75120 000 000	CW	(AB)
M12	15-8	2140	14643	Sat	146 146 146 1 9373 74 9373 74 74563 60401 73555 ... 78377 65961 75120 000 000	CW	(AB)
M12	16-8	1900	13409	Sun	397 397 397 1 6278 151 6278 151 60541 37803 30840 ... 07563 18993 22074 000 000	CW	(AB)
M12	16-8	1920	12195	Sun	397 397 397 1 6278 151 6278 151 60541 37803 30840 ... 07563 18993 22074 000 000	CW	(AB)
M12	16-8	1940	11526	Sun	397 397 397 1 6278 151 6278 151 60541 37803 30840 ... 07563 18993 22074 000 000	CW	(AB)
M12	17-8	0800	13457	Mon	419 419 419 000	CW	(AB)
M12	17-8	0820	12161	Mon	419 419 419 000	CW	(AB)
M12	17-8	1900	13409	Mon	397 397 397 1 1359 151 1359 151 52624 45212 13142 ... 84305 83315 71877 000 000	CW	(AB)
M12	17-8	1920	12195	Mon	397 397 397 1 1359 151 1359 151 52624 45212 13142 ... 84305 83315 71877 000 000	CW	(AB)
M12	17-8	1940	11526	Mon	397 397 397 1 1359 151 1359 151 52624 45212 13142 ... 84305 83315 71877 000 000	CW	(AB)
M12	20-8	1900	11564	Thu	258 258 258 1 5329 286 5329 286 81189 56900 74953 ... 97660 79453 88681 000 000	CW	(AB)
M12	20-8	1920	10487	Thu	258 258 258 1 5329 286 5329 286 81189 56900 74953 ... 97660 79453 88681 000 000	CW	(AB)
M12	20-8	1940	9319	Thu	258 258 258 1 5329 286 5329 286 81189 56900 74953 ... 97660 79453 88681 000 000	CW	(AB)
M12	21-8	0800	13457	Fri	419 419 419 000	CW	(AB)
M12	21-8	0820	12161	Fri	419 419 419 000	CW	(AB)
M12	21-8	2100	12189	Fri	146 146 146 1 5915 151 5915 151 51250 29608 01659 ... 87819 77616 40656 000 000	CW	(AB)
M12	21-8	2120	13475	Fri	146 146 146 1 5915 151 5915 151 51250 29608 01659 ... 87819 77616 40656 000 000	CW	(AB)
M12	21-8	2140	14643	Fri	146 146 146 1 5915 151 5915 151 51250 29608 01659 ... 87819 77616 40656 000 000	CW	(AB)
M12	22-8	1900	11564	Sat	258 258 258 1 5329 286 5329 286 81189 56900 74953 ... 97660 79453 88681 000 000	CW	(AB)
M12	22-8	1920	10487	Sat	258 258 258 1 5329 286 5329 286 81189 56900 74953 ... 97660 79453 88681 000 000	CW	(AB)
M12	22-8	1940	9319	Sat	258 258 258 1 5329 286 5329 286 81189 56900 74953 ... 97660 79453 88681 000 000	CW	(AB)
M12	22-8	2100	12189	Sat	146 146 146 1 5915 151 5915 151 51250 29608 01659 ... 87819 77616 40656 000 000	CW	(AB)
M12	22-8	2120	13475	Sat	146 146 146 1 5915 151 5915 151 51250 29608 01659 ... 87819 77616 40656 000 000	CW	(AB)
M12	22-8	2140	14643	Sat	146 146 146 1 5915 151 5915 151 51250 29608 01659 ... 87819 77616 40656 000 000	CW	(AB)
M12	23-8	1900	13409	Sun	397 397 397 1 1359 151 1359 151 52624 45212 13142 ... 84305 83315 71877 000 000	CW	(AB)
M12	23-8	1920	12195	Sun	397 397 397 1 1359 151 1359 151 52624 45212 13142 ... 84305 83315 71877 000 000	CW	(AB)
M12	23-8	1940	11526	Sun	397 397 397 1 1359 151 1359 151 52624 45212 13142 ... 84305 83315 71877 000 000	CW	(AB)
M12	24-8	0800	13457	Mon	419 419 419 1 3142 78 3142 78 29569 15499 85785 ... 82741 05868 96042 000 000	CW	(AB)
M12	24-8	0820	12161	Mon	419 419 419 1 3142 78 3142 78 29569 15499 85785 ... 82741 05868 96042 000 000	CW	(AB)
M12	24-8	0840	10928	Mon	419 419 419 1 3142 78 3142 78 29569 15499 85785 ... 82741 05868 96042 000 000	CW	(AB)

M12	24-8	1900	13409	Mon	397 397 397 1 9459 169 9459 169 52129 88050 01575 ... 27903 98245 39030 000 000	CW	(AB)
M12	24-8	1920	12195	Mon	397 397 397 1 9459 169 9459 169 52129 88050 01575 ... 27903 98245 39030 000 000	CW	(AB)
M12	24-8	1940	11526	Mon	397 397 397 1 9459 169 9459 169 52129 88050 01575 ... 27903 98245 39030 000 000	CW	(AB)
M12	27-8	1900	11564	Thu	258 258 258 1 5185 287 5185 287 15356 91442 68413 ... 04844 86774 05493 000 000	CW	(AB)
M12	27-8	1920	10487	Thu	258 258 258 1 5185 287 5185 287 15356 91442 68413 ... 04844 86774 05493 000 000	CW	(AB)
M12	27-8	1940	9319	Thu	258 258 258 1 5185 287 5185 287 15356 91442 68413 ... 04844 86774 05493 000 000	CW	(AB)
M12	28-8	0800	13457	Fri	419 419 419 1 3142 78 3142 78 29569 15499 85785 ... 82741 05868 96042 000 000	CW	(AB)
M12	28-8	0820	12161	Fri	419 419 419 1 3142 78 3142 78 29569 15499 85785 ... 82741 05868 96042 000 000	CW	(AB)
M12	28-8	0840	10928	Fri	419 419 419 1 3142 78 3142 78 29569 15499 85785 ... 82741 05868 96042 000 000	CW	(AB)
M12	28-8	2100	12189	Fri	146 146 146 1 5915 151 5915 151 51250 29608 01659 ... 87819 77616 40656 000 000	CW	(AB/RL)
M12	28-8	2120	13475	Fri	146 146 146 1 5915 151 5915 151 51250 29608 01659 ... 87819 77616 40656 000 000	CW	(AB/RL)
M12	28-8	2140	14643	Fri	146 146 146 1 5915 151 5915 151 51250 29608 01659 ... 87819 77616 40656 000 000	CW	(AB/RL)
M12	29-8	1900	11564	Sat	258 258 258 1 5185 287 5185 287 15356 91442 68413 ... 04844 86774 05493 000 000	CW	(AB)
M12	29-8	1920	10487	Sat	258 258 258 1 5185 287 5185 287 15356 91442 68413 ... 04844 86774 05493 000 000	CW	(AB)
M12	29-8	1940	9319	Sat	258 258 258 1 5185 287 5185 287 15356 91442 68413 ... 04844 86774 05493 000 000	CW	(AB)
M12	29-8	2100	12189	Sat	146 146 146 1 5915 151 5915 151 51250 29608 01659 ... 87819 77616 40656 000 000	CW	(AB)
M12	29-8	2120	13475	Sat	146 146 146 1 5915 151 5915 151 51250 29608 01659 ... 87819 77616 40656 000 000	CW	(AB)
M12	29-8	2140	14643	Sat	146 146 146 1 5915 151 5915 151 51250 29608 01659 ... 87819 77616 40656 000 000	CW	(AB)
M12	30-8	1900	13409	Sun	397 397 397 1 9459 169 9459 169 52129 88050 01575 ... 27903 98245 39030 000 000	CW	(AB)
M12	30-8	1920	12195	Sun	397 397 397 1 9459 169 9459 169 52129 88050 01575 ... 27903 98245 39030 000 000	CW	(AB)
M12	30-8	1940	11526	Sun	397 397 397 1 9459 169 9459 169 52129 88050 01575 ... 27903 98245 39030 000 000	CW	(AB)
M12	31-8	0800	13457	Mon	419 419 419 1 9230 189 9230 189 30986 72846 22748 ... 91598 69584 88900 000 000	CW	(AB-KOR)
M12	31-8	0820	12161	Mon	419 419 419 1 9230 189 9230 189 30986 72846 22748 ... 91598 69584 88900 000 000	CW	(AB-KOR)
M12	31-8	0840	10928	Mon	419 419 419 1 9230 189 9230 189 30986 72846 22748 ... 91598 69584 88900 000 000	CW	(AB-KOR)
M12	31-8	1900	13409	Mon	397 397 397 1 4372 186 4372 186 89363 80848 69211 ... 54056 90067 41387 000 000	CW	(AB)
M12	31-8	1920	12195	Mon	397 397 397 1 4372 186 4372 186 89363 80848 69211 ... 54056 90067 41387 000 000	CW	(AB)
M12	31-8	1940	11526	Mon	397 397 397 1 4372 186 4372 186 89363 80848 69211 ... 54056 90067 41387 000 000	CW	(AB)
M14	3-8	0500	12211	Mon	952 107 107 52 52 = = 89359 15223 28157 ... 62358 59919 82389 = = 107 107 52 52 00000	CW	(AB-J)
M14	3-8	0520	10243	Mon	952 107 107 52 52 = = 89359 15223 28157 ... 62358 59919 82389 = = 107 107 52 52 00000	CW	(AB-J)
M14	4-8	0500	12211	Tue	952 107 107 52 52 = = 89359 15223 28157 ... 62358 59919 82389 = = 107 107 52 52 00000 Restart during the callup.	CW	(AB-J)
M14	4-8	0520	10243	Tue	952 107 107 52 52 = = 89359 15223 28157 ... 62358 59919 82389 = = 107 107 52 52 00000	CW	(AB-J)
M14	5-8	0500	12211	Wed	952 138 138 22 22 = = 83321 12282 54364 66669 ... 23777 65796 25908 = = 138 138 22 22 952 460 460 25 25 = = 32214 79757 31015 ... 00136 28578 80974 = = 460 460 25 25 00000	CW	(AB-J)
M14	5-8	0520	10243	Wed	952 138 138 22 22 = = 83321 12282 54364 66669 ... 23777 65796 25908 = = 138 138 22 22 952 460 460 25 25 = = 32214 79757 31015 ... 00136 28578 80974 = = 460 460 25 25 00000	CW	(AB-J)
M14	6-8	0500	12211	Thu	952 138 138 22 22 = = 83321 12282 54364 66669 ... 23777 65796 25908 = = 138 138 22	CW	(AB-J)

					22 952 460 460 25 25 = = 32214 79757 31015 ... 00136 28578 80974 = = 460 460 25 25 00000		
M14	6-8	0520	10243	Thu	952 138 138 22 22 = = 83321 12282 54364 66669 ... 23777 65796 25908 = = 138 138 22 22 952 460 460 25 25 = = 32214 79757 31015 ... 00136 28578 80974 = = 460 460 25 25 00000	CW	(AB-J)
M14	7-8	0500	12211	Fri	Not monitored	CW	(AB-J)
M14	7-8	0520	10243	Fri	Not monitored	CW	(AB-J)
M14	10-8	0500	12211	Mon	952 378 378 54 54 = = 98719 76225 67231 ... 24537 56143 34331 = = 378 378 54 54 00000	CW	(AB-J)
M14	10-8	0520	10243	Mon	952 378 378 54 54 = = 98719 76225 67231 ... 24537 56143 34331 = = 378 378 54 54 00000	CW	(AB-J)
M14	11-8	0500	12211	Tue	952 378 378 54 54 = = 98719 76225 67231 ... 24537 56143 34331 = = 378 378 54 54 00000	CW	(AB-J)
M14	11-8	0520	10243	Tue	952 378 378 54 54 = = 98719 76225 67231 ... 24537 56143 34331 = = 378 378 54 54 00000	CW	(AB-J)
M14	12-8	0500	12211	Wed	952 416 416 32 32 = = 78103 02020 30778 ... 58421 49981 13014 = = 416 416 32 32 952 170 170 25 25 = = 89667 79192 96378 ... 44631 57547 54321 = = 170 170 25 25 00000	CW	(AB-J)
M14	12-8	0520	10243	Wed	952 416 416 32 32 = = 78103 02020 30778 ... 58421 49981 13014 = = 416 416 32 32 952 170 170 25 25 = = 89667 79192 96378 ... 44631 57547 54321 = = 170 170 25 25 00000	CW	(AB-J)
M14	13-8	0500	12211	Thu	952 416 416 32 32 = = 78103 02020 30778 ... 58421 49981 13014 = = 416 416 32 32 952 170 170 25 25 = = 89667 79192 96378 ... 44631 57547 54321 = = 170 170 25 25 00000	CW	(AB-J)
M14	13-8	0520	10243	Thu	952 416 416 32 32 = = 78103 02020 30778 ... 58421 49981 13014 = = 416 416 32 32 952 170 170 25 25 = = 89667 79192 96378 ... 44631 57547 54321 = = 170 170 25 25 00000	CW	(AB-J)
M14	14-8	0500	12211	Fri	No transmission. Test tones at 0508z	CW	(AB-J)
M14	14-8	0520	10243	Fri	952 952 952 00000	CW	(AB-J)
M14	17-8	0500	12211	Mon	952 839 839 51 51 = = 13589 22920 76776 ... 03744 55334 08372 = = 839 839 51 51 83 952 9 83 95 off	CW	(AB-J)
M14	17-8	0520	10243	Mon	952 839 839 51 51 = = 13589 22920 76776 ... 03744 55334 08372 = = = 839 839 51 51 00000	CW	(AB-J)
M14	18-8	0500	12211	Tue	952 839 839 51 51 = = 13589 22920 76776 ... 03744 55334 08372 = = 839 839 51 51 00000	CW	(AB-J)
M14	18-8	0520	10243	Tue	952 839 839 51 51 = = 13589 22920 76776 ... 03744 55334 08372 = = = 839 839 51 51 00000	CW	(AB-J)
M14	19-8	0500	12211	Wed	952 (R) 4m49s silence 7713 = = 630 630 21 21 952 417 417 36 36 = = 26028 82291 13191 ... 09444 12164 81807 = = 417 417 36 36 00000	CW	(AB-J)
M14	19-8	0520	10243	Wed	952 630 630 21 21 = = 69539 60932 29586 ... 19829 29955 87713 = = 630 630 21 21 952 417 417 36 36 = = 26028 82291 13191 ... 09444 12164 81807 = = 417 417 36 36 00000	CW	(AB-J)
M14	20-8	0500	12211	Thu	952 630 630 21 21 = = 69539 60932 29586 ... 19829 29955 87713 = = 630 630 21 21 952 417 417 36 36 = = 26028 82291 13191 ... 09444 12164 81807 8 off	CW	(AB-J)
M14	20-8	0520	10243	Thu	952 630 630 21 21 = = 69539 60932 29586 ... 19829 29955 87713 = = 630 630 21 21 952 417 417 36 36 = = 26028 82291 13191 ... 09444 12164 81807 = = 417 417 36 36 00000 00000 00000 00000 00000	CW	(AB-J)
M14	21-8	0500	12211	Fri	952 952 952 00000	CW	(AB-J)

M14	21-8	0521	10243	Fri	952 952 952 00000	CW	(AB-J)
M14	24-8	0500	12211	Mon	952 148 148 50 50 = = 57558 00173 45090 ... 52520 13978 67666 = = 148 148 50 50 00000	CW	(AB-J)
M14	24-8	0520	10243	Mon	952 148 148 50 50 = = 57558 00173 45090 ... 52520 13978 67666 = = 148 148 50 50 00000	CW	(AB-J)
M14	25-8	0500	12211	Tue	952 148 148 50 50 = = 57558 00173 45090 ... 52520 13978 67666 = = 148 148 50 50 00000	CW	(AB-J)
M14	25-8	0520	10243	Tue	952 148 148 50 50 = = 57558 00173 45090 ... 52520 13978 67666 = = 148 148 50 50 00000	CW	(AB-J)
M14	26-8	0505	12211	Wed	952 367 367 25 25 = = 73276 56903 51451 ... 53553 36866 42846 = = 367 367 25 25 952 184 184 32 32 = = 91262 64195 37062 ... 84906 56823 79377 = = 184 184 32 32 00000	CW	(AB-J)
M14	26-8	0520	12211	Wed	952 (R) Wrong freq. Switched freq at 0523z	CW	(AB-J)
M14	26-8	0523	10243	Wed	952 367 367 25 25 = = 73276 56903 51451 ... 53553 36866 42846 = = 367 367 25 25 952 184 184 32 32 = = 91262 64195 37062 ... 84906 56823 79377 = = 184 184 32 32 00000	CW	(AB-J)
M14	27-8	0500	12211	Thu	952 367 367 25 25 = = 73276 56903 51451 ... 53553 36866 42846 = = 367 367 25 25 952 184 184 32 32 = = 91262 64195 37062 ... 84906 56823 79377 = = 184 184 32 32 00000	CW	(AB-J)
M14	27-8	0520	10243	Thu	952 367 367 25 25 = = 73276 56903 51451 ... 53553 36866 42846 = = 367 367 25 25 952 184 184 32 32 = = 91262 64195 37062 ... 84906 56823 79377 = = 184 184 32 32 00000	CW	(AB-J)
M14	28-8	0500	12211	Fri	952 952 952 00000	CW	(AB-J)
M14	28-8	0521	10243	Fri	952 952 952 00000	CW	(AB-J)
M14	31-8	0500	12211	Mon	952 376 376 54 54 = = 44905 41858 04143 ... 99523 00747 34977 = = 376 376 54 54 00000	CW	(AB-J)
M14	31-8	0520	10243	Mon	952 376 376 54 54 = = 44905 41858 04143 ... 99523 00747 34977 = = 376 376 54 54 00000	CW	(AB-J)
M22	22-8	1810	21899	Sat	VVV DE 4XZ 4XZ = = AR NW QTC 1 NR 573 = = NR 573 PG V QSOG 70412 XGOT GR 61 = XTXTX NTDWMI TTMQG TUDBK ZKTYI ...	CW	(AB)
M23	2-8	1459	6936	Sun	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	2-8	1529	6936	Sun	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	3-8	1459	6936	Mon	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	3-8	1529	6936	Mon	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	4-8	1459	6936	Tue	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	4-8	1529	6936	Tue	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	5-8	1459	6936	Wed	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	5-8	1529	6936	Wed	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	6-8	1059	7668	Thu	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	6-8	1129	7668	Thu	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	7-8	1059	7668	Fri	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	7-8	1129	7668	Fri	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	8-8	1059	7668	Sat	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	8-8	1129	7668	Sat	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	9-8	1059	7668	Sun	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	9-8	1129	7668	Sun	00000 33333 55555 77777 (R25m)	CW	(AB)

M23	10-8	1059	7668	Mon	00000 33333 55555 77777 (R25m)	CW	(AB/TJ)
M23	10-8	1129	7668	Mon	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	11-8	0859	7668	Tue	Hourly beep	CW	(AB)
M23	11-8	0959	7668	Tue	Hourly beep	CW	(AB)
M23	11-8	1059	7668	Tue	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	11-8	1129	7668	Tue	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	11-8	1459	7668	Tue	Hourly beep	CW	(AB)
M23	11-8	1859	4880	Tue	00000 33333 55555 77777 (R25m)	CW	(WO)
M23	11-8	1929	4880	Tue	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	12-8	1059	7668	Wed	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	12-8	1129	7668	Wed	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	12-8	1459	4880	Wed	Hourly beep	CW	(AB)
M23	12-8	1459	7668	Wed	Hourly beep	CW	(AB)
M23	12-8	1859	4880	Wed	00000 33333 55555 77777 (R25m)	CW	(WO)
M23	12-8	1929	4880	Wed	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	13-8	1059	7668	Thu	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	13-8	1129	7668	Thu	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	13-8	1859	4880	Thu	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	13-8	1929	4880	Thu	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	14-8	0600	7668	Fri	Hourly beep	CW	(AB)
M23	14-8	1000	7668	Fri	Hourly beep	CW	(AB)
M23	14-8	1059	7668	Fri	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	14-8	1129	7668	Fri	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	14-8	1759	4880	Fri	Hourly beep	CW	(AB)
M23	14-8	1859	4880	Fri	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	14-8	1929	4880	Fri	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	15-8	0959	7668	Sat	Hourly beep	CW	(AB)
M23	15-8	1059	7668	Sat	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	15-8	1129	7668	Sat	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	15-8	1859	4880	Sat	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	15-8	1929	4880	Sat	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	15-8	2059	4880	Sat	Hourly beep	CW	(AB)
M23	16-8	1059	7668	Sun	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	16-8	1129	7668	Sun	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	16-8	1859	4880	Sun	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	16-8	1929	4880	Sun	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	17-8	1059	7668	Mon	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	17-8	1129	7668	Mon	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	17-8	1259	7668	Mon	Hourly beep	CW	(AB)
M23	17-8	1859	4880	Mon	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	17-8	1929	4880	Mon	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	17-8	1959	4880	Mon	Hourly beep	CW	(AB)

M23	18-8	1059	7668	Tue	00000 33333 55555 77777 (R25m)	CW	(AB/Pille)
M23	18-8	1129	7668	Tue	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	18-8	1859	4880	Tue	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	18-8	1929	4880	Tue	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	19-8	1059	7668	Wed	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	19-8	1129	7668	Wed	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	19-8	1859	4880	Wed	00000 33333 55555 77777 (R25m)	CW	(WO)
M23	19-8	1929	4880	Wed	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	20-8	1059	7668	Thu	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	20-8	1129	7668	Thu	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	20-8	1859	4880	Thu	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	20-8	1929	4880	Thu	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	21-8	0959	7668	Fri	Hourly beep	CW	(AB)
M23	21-8	1059	7668	Fri	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	21-8	1129	7668	Fri	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	21-8	1859	4880	Fri	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	21-8	1929	4880	Fri	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	22-8	1059	7668	Sat	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	22-8	1129	7668	Sat	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	22-8	1859	4880	Sat	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	22-8	1929	4880	Sat	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	23-8	1059	7668	Sun	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	23-8	1129	7668	Sun	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	23-8	1859	4880	Sun	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	23-8	1929	4880	Sun	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	24-8	1059	7668	Mon	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	24-8	1129	7668	Mon	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	24-8	1859	4880	Mon	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	24-8	1929	4880	Mon	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	24-8	1959	4880	Mon	Hourly beep	CW	(AB)
M23	25-8	1059	7668	Tue	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	25-8	1129	7668	Tue	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	25-8	1859	4880	Tue	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	25-8	1929	4880	Tue	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	26-8	1059	7668	Wed	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	26-8	1129	7668	Wed	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	26-8	1859	4880	Wed	00000 33333 55555 77777 (R25m)	CW	(WO)
M23	26-8	1929	4880	Wed	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	27-8	1059	7668	Thu	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	27-8	1129	7668	Thu	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	27-8	1859	4880	Thu	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	27-8	1929	4880	Thu	00000 33333 55555 77777 (R25m)	CW	(AB)

M23	28-8	1059	7668	Fri	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	28-8	1129	7668	Fri	00000 33333 55555 77777 (R25m)	CW	(AB)
M23	28-8	1159	7668	Fri	Hourly beep	CW	(AB)
M23	30-8	0559	7668	Sun	Hourly beep	CW	(AB)
M23	30-8	1059	7668	Sun	Hourly beep	CW	(AB)
M23	30-8	1359	7668	Sun	Hourly beep	CW	(AB)
M23	31-8	0959	7668	Mon	Hourly beep	CW	(AB)
M42	3-8	0752	11490	Mon	Russian diplo	MFSK-66	(RO)
M42	5-8	0630	14454	Wed	Russian diplo	Serdolik v2	(RO)
M42	5-8	0833	14633	Wed	Russian diplo	MFSK-66	(RO)
M42	6-8	0933	20844	Thu	Russian diplo	MFSK-66	(RO)
M42	13-8	1300	16156	Thu	UAL: MFA Moscow wkg UAG: Russian embassy Havana. UAL UAL UAL followed by operator chat and a message	FSK CW + FSK 50/500	(AB)
M42	13-8	1300	18726	Thu	UAG: Russian embassy Havana wkg UAL: MFA Moscow. UAG UAG UAG followed by operator chat and a message	FSK CW + FSK 50/500	(AB-ABW)
M42	14-8	0631	13532	Fri	Russian diplo	Serdolik v2	(RO)
M42	14-8	0640	13532	Fri	Russian diplo	Serdolik v2	(RO)
M42	14-8	0812	12177	Fri	Russian diplo	MFSK-66	(AB/RO)
M42	14-8	0831	11473	Fri	Russian diplo	MFSK-66	(AB)
M42	14-8	0831	12195	Fri	Russian diplo	MFSK-66	(AB/RO)
M42	14-8	0847	12195	Fri	Russian diplo	MFSK-66	(AB)
M42	18-8	0841	14801	Tue	Russian diplo	MFSK-66	(AB)
M42	19-8	0624	16336	Wed	Russian diplo	Serdolik v2	(AB)
M42	20-8	0928	17450	Thu	Russian diplo	MFSK-66	(AB/RO)
M42	20-8	1300	16156	Thu	UAL: MFA Moscow wkg UAG: Russian embassy Havana. UAL UAL UAL followed by operator chat and a message	FSK CW + FSK 50/500	(AB)
M42	20-8	1300	18726	Thu	UAG: Russian embassy Havana wkg UAL: MFA Moscow. UAG UAG UAG followed by operator chat and a message	FSK CW + FSK 50/500	(AB-ABW)
M42	20-8	1300	18726	Thu	UAG: Russian embassy Havana wkg UAL: MFA Moscow. UAG UAG UAG followed by operator chat and a message	FSK CW + FSK 50/500	(AB-BER)
M42	20-8	1501	16278	Thu	Russian diplo	MFSK-66	(RO)
M42	27-8	1300	16156	Thu	UAL: MFA Moscow wkg UAG: Russian embassy Havana. UAL UAL UAL followed by operator chat and a message	FSK CW + FSK 50/500	(AB)
M42b	20-8	1232	16023	Thu	KFUJ RTHZLQPCAUJ JTHZLQMO OVJ O OOOOOOQO OVJ O OOOOOOQO OVJ O OOOOOOOOOO...	FSK 50/500	(AB)
M89	1-8	1108	3611	Sat	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	1-8	1108	4522	Sat	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	1-8	1108	5419	Sat	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	1-8	1108	9251	Sat	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	1-8	1108	13362	Sat	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	1-8	1112	7015	Sat	V AA8V (x3) DE HJRA (x2) (R5) QSA ? K	CW	(JPL)
M89	1-8	1206	5131	Sat	i.p. Both stns on this frequency)	CW	(JPL)

M89	1-8	1210	5698	Sat	i.p. RMKS 7494 TO 7029 = - Both stns on this frequency	CW	(JPL)
M89	1-8	1645	5407	Sat	V AA8V (x3) DE HJRA (x2) (R5) QSA ? K	CW	(JPL)
M89	2-8	1015	3611	Sun	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	2-8	1015	4522	Sun	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	2-8	1015	5419	Sun	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	2-8	1015	9251	Sun	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	2-8	1015	13362	Sun	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	2-8	1018	7015	Sun	V AA8V (x3) DE HJRA (x2) (R5) QSA ? K	CW	(JPL)
M89	2-8	1120	4860	Sun	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	2-8	1120	6840	Sun	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	2-8	1200	3611	Sun	TG1Y (x3) DE X9FW (x2) 588/4656/4333/36/37/6333/477/A	CW	(JPL)
M89	2-8	1219	5367	Sun	R3PM i.p., working outstations on another freq	CW	(JPL)
M89	2-8	1220	4860	Sun	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	2-8	1220	6840	Sun	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	2-8	1228	5407	Sun	V AA8V (x3) DE HJRA (x2) (R5) QSA ? K	CW	(JPL)
M89	2-8	1238	6541	Sun	i.p.	CW	(JPL)
M89	2-8	1520	4680	Sun	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	2-8	1520	6840	Sun	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	2-8	1522	3000	Sun	i.p.	CW	(JPL)
M89	3-8	0755	13457	Mon	i.p. 7N4U 6443 73 ? 73NT 3D4D 4NTA 6UAN T47D AR K R = 65D6 65N6 T64D 55AD TD4D 5463 5463 AR R = A33U A44D K	CW	(AB)
M89	3-8	1113	3611	Mon	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	3-8	1113	4522	Mon	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	3-8	1113	5419	Mon	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	3-8	1113	9251	Mon	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	3-8	1113	13362	Mon	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	3-8	1115	5407	Mon	V AA8V (x3) DE HJRA (x2) (R5) QSA ? K	CW	(JPL)
M89	3-8	1118	5678	Mon	i.p.	CW	(JPL)
M89	3-8	1123	5443	Mon	i.p. F NR .../EX 1921 RMKS 6620 TO 6677 = QJX2/B3C5 AR QSL ? NR 2732 CK 36 42 0803 1929 RMKS 6620 TO 6677 =	CW	(JPL)
M89	3-8	1203	5426	Mon	i.p. Other stn on another freq)	CW	(JPL)
M89	3-8	1205	5380	Mon	i.p.	CW	(JPL)
M89	3-8	1207	5258	Mon	i.p.	CW	(JPL)
M89	3-8	1225	4535	Mon	i.p. NR 6149 CK 52 .. 0803 20.1 RMKS 7135 TO 8.35 =	CW	(JPL)
M89	3-8	1226	4510	Mon	i.p. R SK	CW	(JPL)
M89	3-8	1235	5467	Mon	i.p. Both stations on this freq)	CW	(JPL)
M89	3-8	1247	5672	Mon	Y3JI DE N6WX (Repeated)	CW	(JPL)
M89	3-8	1252	5775	Mon	i.p.	CW	(JPL)
M89	3-8	1253	5824	Mon	i.p.	CW	(JPL)
M89	3-8	1418	4391	Mon	i.p.	CW	(JPL)
M89	3-8	1616	5258	Mon	i.p.	CW	(JPL)
M89	3-8	1621	4991	Mon	i.p.	CW	(JPL)

M89	5-8	0902	7015	Wed	V AA8V (x3) DE HJRA (x2) (R5) QSA ? K	CW	(JPL)
M89	5-8	0935	5833	Wed	i.p. Other stn on another freq)	CW	(JPL)
M89	5-8	0940	13362	Wed	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	5-8	1125	6543	Wed	i.p. Other stn on another freq)	CW	(JPL)
M89	5-8	1133	6458	Wed	i.p. F NR 2763/EX 1933 RMKS 9133 TO 9102 = UA/D4 AR (X3)	CW	(JPL)
M89	5-8	1142	5672	Wed	Y3JI DE N6WX M89 (Repeated) (Remote tuner Japan) JPL WED	CW	(JPL)
M89	5-8	1144	5663	Wed	i.p.	CW	(JPL)
M89	5-8	1549	3411.5	Wed	i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M (rptd)	CW	(JPL)
M89	5-8	1553	3611	Wed	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	5-8	1553	4522	Wed	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	5-8	1553	5419	Wed	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	5-8	1614	4912	Wed	i.p. Other stn on another freq)	CW	(JPL)
M89	5-8	1615	5407	Wed	V AA8V (x3) DE HJRA (x2) (R5) QSA ? K	CW	(JPL)
M89	5-8	1619	5577	Wed	i.p. NR 1116 CK 201 3. 0805 ..05 RMKS CQ =	CW	(JPL)
M89	5-8	1620	4860	Wed	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	5-8	1620	6840	Wed	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	7-8	1145	4284	Fri	i.p. F NR 0635/EX 1948 RMKS 9121 TO 9186 = A6UZ/ZDZ AR Other stn on QSY 06	CW	(JPL)
M89	7-8	1728	4284	Fri	i.p. Other stn on another freq)	CW	(JPL)
M89	7-8	1742	3611	Fri	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	7-8	1742	4522	Fri	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	7-8	1742	5419	Fri	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	8-8	1010	9251	Sat	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	8-8	1010	13362	Sat	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	8-8	1012	7015	Sat	V AA8V (x3) DE HJRA (x2) (R5) QSA ? K	CW	(JPL)
M89	8-8	1020	6840	Sat	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	8-8	1020	8290	Sat	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	8-8	1030	7620	Sat	VVV WNF (x3) DE FXM (x2) (R5) QSA ? K	CW	(JPL)
M89	8-8	1030	8350	Sat	VVV WNF (x3) DE FXM (x2) (R5) QSA ? K	CW	(JPL)
M89	8-8	1040	5792	Sat	i.p. Other stn on another freq - E8VU - Outstations)	CW	(JPL)
M89	8-8	1046	5623	Sat	i.p. F F NR ...)	CW	(JPL)
M89	8-8	1050	3611	Sat	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	8-8	1050	4522	Sat	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	8-8	1050	5419	Sat	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	8-8	1050	9251	Sat	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	8-8	1050	13362	Sat	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	8-8	1109	4551.5	Sat	i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M (rptd)	CW	(JPL)
M89	8-8	1116	6548	Sat	i.p. F F NR .../EX 191. RMK 64.4 TO 702. = NN1./IFO. AR	CW	(JPL)
M89	8-8	1120	4860	Sat	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	8-8	1120	6840	Sat	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	8-8	1125	4754	Sat	i.p. F F F NR 3043/EX 1925 RMKS 7234 TO 7251 = X2HJ/J3N4 AR	CW	(JPL)
M89	8-8	1130	7620	Sat	VVV WNF (x3) DE FXM (x2) (R5) QSA ? K	CW	(JPL)
M89	8-8	1130	8350	Sat	VVV WNF (x3) DE FXM (x2) (R5) QSA ? K	CW	(JPL)

M89	8-8	1208	5672	Sat	Y3JI DE N6WX	CW	(JPL)
M89	8-8	1217	3136	Sat	i.p.	CW	(JPL)
M89	8-8	1220	4860	Sat	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	8-8	1220	6840	Sat	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	8-8	1557	3284	Sat	i.p.	CW	(JPL)
M89	8-8	1603	4567	Sat	i.p.	CW	(JPL)
M89	8-8	1610	4551.5	Sat	i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M (rptd)	CW	(JPL)
M89	8-8	1620	4860	Sat	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	8-8	1620	6840	Sat	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	8-8	1630	5150	Sat	VVV WNF (x3) DE FXM (x2) (R5) QSA ? K	CW	(JPL)
M89	8-8	1640	4850	Sat	VVV UIS (x3) DE HV4 (X2) (R5) QSA ? K	CW	(JPL)
M89	8-8	1640	5450	Sat	VVV UIS (x3) DE HV4 (X2) (R5) QSA ? K	CW	(JPL)
M89	11-8	1633	3568	Tue	i.p.	CW	(JPL)
M89	11-8	1640	3611	Tue	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	11-8	1640	4522	Tue	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	11-8	1640	5419	Tue	TG1Y (x3) DE X9FW (x2)TUE	CW	(JPL)
M89	11-8	1642	5407	Tue	V AA8V (x3) DE HJRA (x2) (R5) QSA ? K	CW	(JPL)
M89	11-8	1646	3903	Tue	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M89	11-8	1646	6886	Tue	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M89	12-8	0920	6840	Wed	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	12-8	0920	8290	Wed	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	12-8	0929	5428	Wed	i.p. NR 001 CK 38 94 0812 1727 RMKS 6457 TO 6479 =	CW	(JPL)
M89	12-8	0950	7015	Wed	V AA8V (x3) DE HJRA (x2) (R5) QSA ? K	CW	(JPL)
M89	12-8	0953	6491	Wed	i.p.	CW	(JPL)
M89	12-8	1004	4551.5	Wed	i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M (rptd)	CW	(JPL)
M89	14-8	0138	13362	Fri	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	14-8	0158	6458	Fri	i.p.	CW	(JPL)
M89	14-8	0205	8980	Fri	i.p.	CW	(JPL)
M89	14-8	0207	9023	Fri	i.p. F NR 5259/EX 1005 RMKS 4428 TO 4421 = SA8/DW AR	CW	(JPL)
M89	14-8	0930	7015	Fri	V AA8V (x3) DE HJRA (x2) (R5) QSA ? K	CW	(JPL)
M89	14-8	0943	6666	Fri	i.p.	CW	(JPL)
M89	14-8	1020	6840	Fri	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	14-8	1020	8290	Fri	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	14-8	1034	6519	Fri	i.p. Other stn not on this freq)	CW	(JPL)
M89	14-8	1040	3611	Fri	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	14-8	1040	4522	Fri	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	14-8	1040	5419	Fri	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	14-8	1040	13362	Fri	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	14-8	1119	5672	Fri	Y3JI DE N6WX M89 (Repeated)	CW	(JPL)
M89	14-8	1120	4860	Fri	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	14-8	1120	6840	Fri	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	14-8	1123	3611	Fri	TG1Y (x3) DE X9FW (x2)	CW	(JPL)

M89	14-8	1123	4522	Fri	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	14-8	1123	5419	Fri	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	14-8	1123	9251	Fri	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	14-8	1123	13362	Fri	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	14-8	1158	4551.5	Fri	i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M (rptd)	CW	(JPL)
M89	14-8	1201	4630	Fri	i.p.	CW	(JPL)
M89	14-8	1207	5407	Fri	V AA8V (x3) DE HJRA (x2) (R5) QSA ? K	CW	(JPL)
M89	14-8	1213	5721	Fri	i.p. F F F NR 716/EX 2005 RMKS 6223 TO 8971 = B2Q6/Y3P4 AR	CW	(JPL)
M89	14-8	1220	4860	Fri	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	14-8	1220	6840	Fri	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	14-8	1518	4300	Fri	i.p.	CW	(JPL)
M89	14-8	1519	4411	Fri	i.p.	CW	(JPL)
M89	14-8	1522	4437	Fri	i.p.	CW	(JPL)
M89	14-8	1529	4455	Fri	i.p.	CW	(JPL)
M89	14-8	1531	5665	Fri	i.p. NR 2800 CK 79 58 0814 2332 RMKS 5795 TO 5798 = Both stns on this freq)	CW	(JPL)
M89	14-8	1535	4860	Fri	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	14-8	1535	6840	Fri	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	14-8	1555	7013	Fri	i.p.	CW	(JPL)
M89	14-8	1655	4860	Fri	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	14-8	1655	6840	Fri	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	14-8	1720	4860	Fri	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	14-8	1720	6840	Fri	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	16-8	1703	3611	Sun	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	16-8	1703	4522	Sun	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	16-8	1703	5419	Sun	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	16-8	1711	4551.5	Sun	i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M (rptd)	CW	(JPL)
M89	16-8	1716	5163	Sun	i.p. RMKS 6888 TO 6378 =	CW	(JPL)
M89	16-8	1718	5232	Sun	i.p. Both stn in this freq	CW	(JPL)
M89	16-8	1720	4860	Sun	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	16-8	1720	6840	Sun	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	17-8	1203	3611	Mon	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	17-8	1203	4522	Mon	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	17-8	1203	5419	Mon	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	17-8	1208	5407	Mon	V AA8V (x3) DE HJRA (x2) (R5) QSA ? K	CW	(JPL)
M89	17-8	1210	4599	Mon	i.p. NR 9013 CK 61 28 0817 2000 RMKS 4357 TO 4350 =	CW	(JPL)
M89	17-8	1235	6454	Mon	i.p. NR 2573 CK 49 20 0817 2030 RMKS 5... TO 5411 =	CW	(JPL)
M89	17-8	1245	7467	Mon	i.p.	CW	(JPL)
M89	17-8	1258	7890	Mon	i.p. F F NR 1300/EX 2105 RMKS 4424 TO 4428 = AC7/DW AR	CW	(JPL)
M89	17-8	1312	3000	Mon	i.p.	CW	(JPL)
M89	17-8	1318	4384	Mon	o.p. Other stn not on this freq	CW	(JPL)
M89	17-8	1320	4860	Mon	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	17-8	1320	6840	Mon	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)

M89	17-8	1655	5320	Mon	i.p.	CW	(JPL)
M89	18-8	1219	5454	Tue	i.p. /31/22/22/222232/X732A/COMM/6273 AR 22222 =	CW	(JPL)
M89	18-8	1547	3611	Tue	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	18-8	1547	4522	Tue	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	18-8	1547	5419	Tue	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	18-8	1549	5407	Tue	V AA8V (x3) DE HJRA (x2) (R5) QSA ? K	CW	(JPL)
M89	18-8	1553	5323	Tue	i.p. F NR 1824/EX 2352 = CF1/W2 AR QSY 03 QSY 03	CW	(JPL)
M89	18-8	1556	5481	Tue	i.p. Both stn on this freq	CW	(JPL)
M89	18-8	1610	4551.5	Tue	i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M ...	CW	(JPL)
M89	19-8	1020	9251	Wed	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	19-8	1020	13362	Wed	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	19-8	1036	8683	Wed	i.p.	CW	(JPL)
M89	19-8	1042	8359.5	Wed	i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M ... (New freq)	CW	(JPL)
M89	19-8	1055	7015	Wed	V AA8V (x3) DE HJRA (x2) (R5) QSA ? K	CW	(JPL)
M89	19-8	1055	7142	Wed	i.p.	CW	(JPL)
M89	19-8	1111	6474	Wed	i.p. Working outstations NR 234 CK 71 36 0819 ..65 RMKS.... 374 AR	CW	(JPL)
M89	19-8	1117	5770	Wed	i.p.	CW	(JPL)
M89	19-8	1122	5658	Wed	i.p. Both stn on this freq	CW	(JPL)
M89	19-8	1553	5489	Wed	i.p. Both stn on this freq NR 382 CK 51 77 0820 0146 RMKS 3384 TO 5698 =	CW	(JPL)
M89	19-8	1610	3611	Wed	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	19-8	1610	5419	Wed	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	19-8	1622	5489	Wed	i.p.	CW	(JPL)
M89	20-8	1038	3611	Thu	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	20-8	1038	4522	Thu	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	20-8	1038	5419	Thu	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	20-8	1038	9251	Thu	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	20-8	1038	13362	Thu	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	20-8	1042	7015	Thu	V AA8V (x3) DE HJRA (x2) (R5) QSA ? K	CW	(JPL)
M89	20-8	1047	10256	Thu	i.p.	CW	(JPL)
M89	20-8	1057	8359.5	Thu	i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M	CW	(JPL)
M89	20-8	1106	8080	Thu	i.p. VVV (x) NR 2344/EX 1903 = 2XB8/JCD5 AR QSY 36 QSY 36 QSY 36	CW	(JPL)
M89	20-8	1113	7119	Thu	i.p. Other stn on another freq	CW	(JPL)
M89	20-8	1119	6255	Thu	i.p. Other stn on another freq	CW	(JPL)
M89	20-8	1120	4860	Thu	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	20-8	1120	6840	Thu	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	20-8	1125	5656	Thu	i.p. VVV FF NR 5542/EX 1927 RMKS 5930 TO 2868 = HD0/KBH AR (x3)	CW	(JPL)
M89	20-8	1125	5748	Thu	i.p. Other stn on another freq	CW	(JPL)
M89	20-8	1212	5407	Thu	V AA8V (x3) DE HJRA (x2) (R5) QSA ? K	CW	(JPL)
M89	20-8	1220	4860	Thu	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	20-8	1220	6840	Thu	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	20-8	1225	4542	Thu	XS30 i.p. NR 689 CK 042 35 0820 1656 =	CW	(JPL)
M89	20-8	1238	6323	Thu	i.p. Other stn on another freq	CW	(JPL)

M89	24-8	1120	4860	Mon	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	24-8	1120	6840	Mon	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	24-8	1128	3611	Mon	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	24-8	1128	4522	Mon	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	24-8	1128	5419	Mon	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	24-8	1128	9251	Mon	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	24-8	1128	13362	Mon	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	24-8	1129	7015	Mon	V AA8V (x3) DE HJRA (x2) (R5) QSA ? K	CW	(JPL)
M89	24-8	1151	7967	Mon	i.p.	CW	(JPL)
M89	24-8	1155	7498	Mon	i.p. 999B DE Y... Other stn on another freq	CW	(JPL)
M89	24-8	1219	5681	Mon	i.p. VN5J working outstations - Other stns on another freq	CW	(JPL)
M89	24-8	1221	5678	Mon	i.p.	CW	(JPL)
M89	24-8	1225	5407	Mon	V AA8V (x3) DE HJRA (x2) (R5) QSA ? K	CW	(JPL)
M89	24-8	1243	4551.5	Mon	i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M	CW	(JPL)
M89	24-8	1245	4471	Mon	i.p.	CW	(JPL)
M89	24-8	1508	4266	Mon	i.p.	CW	(JPL)
M89	28-8	1618	3611	Fri	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	28-8	1618	4522	Fri	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	28-8	1618	5419	Fri	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	28-8	1620	4860	Fri	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	28-8	1620	6840	Fri	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	28-8	1626	4551.5	Fri	i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M	CW	(JPL)
M89	28-8	1635	5407	Fri	V AA8V (x3) DE HJRA (x2) (R5) QSA ? K	CW	(JPL)
M89	28-8	1643	6547	Fri	i.p. Other stn on another freq	CW	(JPL)
M89	28-8	1700	8556	Fri	i.p. NR 226 CK 51 53 0829 0100 RMKS 8636 TO 8573 = (Both stns on this freq)	CW	(JPL)
M89	29-8	1120	4860	Sat	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	29-8	1120	6840	Sat	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	29-8	1125	5123	Sat	i.p. /EX RMKS 2540 TO 2575 = RIJU/LPGG AR K	CW	(JPL)
M89	29-8	1127	3611	Sat	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	29-8	1127	4522	Sat	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	29-8	1127	5419	Sat	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	29-8	1152	4551.5	Sat	i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M	CW	(JPL)
M89	29-8	1154	5407	Sat	V AA8V (x3) DE HJRA (x2) (R5) QSA ? K	CW	(JPL)
M89	29-8	1157	5610	Sat	i.p.	CW	(JPL)
M89	29-8	1159	5710	Sat	i.p.	CW	(JPL)
M89	29-8	1200	5680	Sat	i.p. F F NR 635/EX 1955 RMKS 6276 TO 6970 = C2K3/D5F4 AR F F F NR 635/EX 1955 RMKS 6970 TO 6276 =	CW	(JPL)
M89	29-8	1218	7741	Sat	R3PM working outstations on another freq	CW	(JPL)
M89	29-8	1220	4860	Sat	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	29-8	1220	6840	Sat	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	30-8	1111	3611	Sun	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	30-8	1111	4522	Sun	TG1Y (x3) DE X9FW (x2)	CW	(JPL)

M89	30-8	1111	5419	Sun	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	30-8	1111	9251	Sun	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	30-8	1111	13362	Sun	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	30-8	1113	5407	Sun	V AA8V (x3) DE HJRA (x2) (R5) QSA ? K	CW	(JPL)
M89	30-8	1115	5837	Sun	i.p. Both stn on this freq	CW	(JPL)
M89	30-8	1119	6740	Sun	i.p.	CW	(JPL)
M89	30-8	1205	9028	Sun	i.p. Both stn on this freq - QSY 01	CW	(JPL)
M89	30-8	1443	3833	Sun	V AA8V (x3) DE HJRA (x2) (R5) QSA ? K //5407 kHz	CW	(JPL)
M89	30-8	1453	4551.5	Sun	i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M	CW	(JPL)
M89	30-8	1505	5500	Sun	i.p.	CW	(JPL)
M89	30-8	1510	6518	Sun	i.p.	CW	(JPL)
M89	30-8	1920	4860	Sun	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	30-8	1920	6840	Sun	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	30-8	1944	5407	Sun	V AA8V (x3) DE HJRA (x2) (R5) QSA ? K //3833 kHz	CW	(JPL)
M89	31-8	1020	6840	Mon	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	31-8	1020	8290	Mon	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	31-8	1027	9251	Mon	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	31-8	1027	13362	Mon	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	31-8	1029	7015	Mon	V AA8V (x3) DE HJRA (x2) (R5) QSA ? K //9350 kHz	CW	(JPL)
M89	31-8	1045	10211	Mon	i.p. DE T8GZ working outstations on another freq	CW	(JPL)
M89	31-8	1050	9350	Mon	V AA8V (x3) DE HJRA (x2) (R5) QSA ? K //7015 kHz	CW	(JPL)
M89	31-8	1103	7151	Mon	i.p. NR 538 CK 0831 104 RMKS 2254 TO 2221 K - Both stn on this freq	CW	(JPL)
M89	31-8	1113	5491	Mon	i.p. Both stn on this frequency	CW	(JPL)
M89	31-8	1120	4860	Mon	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	31-8	1120	6840	Mon	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	31-8	1126	3611	Mon	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	31-8	1126	4522	Mon	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	31-8	1126	5419	Mon	TG1Y (x3) DE X9FW (x2)	CW	(JPL)
M89	31-8	1128	4551.5	Mon	ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M	CW	(JPL)
M89	31-8	1532	3833	Mon	V AA8V (x3) DE HJRA (x2) (R5) QSA ? K	CW	(JPL)
M89	31-8	1532	5407	Mon	V AA8V (x3) DE HJRA (x2) (R5) QSA ? K	CW	(JPL)
M89	31-8	1550	5232	Mon	i.p. HR SVC GA 240 2345 RMKS 0615 TO 0847/0805 = COMM/0030/667A/0615/0847 AR	CW	(JPL)
M89	31-8	1556	5566	Mon	i.p.	CW	(JPL)
M95	1-8	1137	6876	Sat	BNGC DE XS30 NR 0607 CK 224 35 0801 1551 = //4542 kHz	CW	(JPL)
M95	1-8	1147	9042	Sat	NR 030 CK 15 35 0801 1450 = NR 02 CK 105 35 0801 1523 = //9042, 6352, 4156 kHz	CW	(JPL)
M95	1-8	1511	3903	Sat	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	1-8	1511	6886	Sat	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	2-8	1012	11475	Sun	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	2-8	1048	6550	Sun	NR 010 CK 51 50 0803 0100 RMKS = Both stns on this frequency	CW	(JPL)
M95	2-8	1141	6876	Sun	BNGC DE XS30 NR 0609 CK 293 35 0802 1601 = //4542 kHz	CW	(JPL)
M95	2-8	1147	9042	Sun	NR 032 CK 29 35 0802 1501 = NR 04 CK 094 35 0802 1526 = //9042, 6352, 4156 kHz	CW	(JPL)
M95	2-8	1529	3903	Sun	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)

M95	2-8	1533	4437	Sun	NR 66/CCK CK 99 55 0802 1323 RMKS 1804 TO 1800 =	CW	(JPL)
M95	3-8	1110	6557	Mon	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	3-8	1110	11475	Mon	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	3-8	1142	6876	Mon	BNGC DE XS30 NR 0613 CK 408 35 0803 1558 = //4542 kHz	CW	(JPL)
M95	3-8	1147	9042	Mon	NR 034 CK 38 35 0803 1506 = NR 06 CK 094 35 0803 1547 = //9042, 6352, 4156 kHz	CW	(JPL)
M95	3-8	1214	4885	Mon	NR 2182/CCK CK 91 68 0803 2000 RMKS 1951 TO 1059 K	CW	(JPL)
M95	3-8	1310	3903	Mon	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	3-8	1310	6557	Mon	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	3-8	1419	4437	Mon	NR 68./CKC CK 99 55 0803 2211 RMKS 2807 TO 2800 =	CW	(JPL)
M95	3-8	1600	3903	Mon	V WCJJ (x3) DE HBDD (x2) (	CW	(JPL)
M95	4-8	0134	11475	Tue	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	4-8	0933	6516	Tue	3FGs i.p. ZNN SK	CW	(JPL)
M95	4-8	0949	6531	Tue	NR 030/CCK CK 49 58 0803 1848 RMKS 3267 TO 3257 =	CW	(JPL)
M95	4-8	1005	5222	Tue	C39K i.p. MSG TO U LSN NOTE CY U NR 001/CCK CK 51 46 0804 1800 RMKS = 6109 TO 6114 AR K	CW	(JPL)
M95	4-8	1038	6557	Tue	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	4-8	1038	11475	Tue	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	4-8	1130	6876	Tue	BNGC DE XS30 NR 0615 CK 045 35 0804 1552 = //4542 kHz	CW	(JPL)
M95	4-8	1149	9042	Tue	NR ... CK 132 35 0804 1522 = //9042, 6352, 4156 kHz	CW	(JPL)
M95	4-8	1539	3903	Tue	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	4-8	1539	6886	Tue	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	5-8	0907	11475	Wed	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	5-8	0921	6516	Wed	NR 685 CK 198 35 0805 1428 //9392, 6516, 4225 kHz	CW	(JPL)
M95	5-8	1558	3903	Wed	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	5-8	1558	6886	Wed	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	7-8	1745	3903	Fri	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	7-8	1745	6886	Fri	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	8-8	1151	6876	Sat	BNGC DE XS30 NR 06.3 CK ... 35 0808 1... = //4542 kHz	CW	(JPL)
M95	8-8	1154	9042	Sat	NR 044 CK 61 35 0808 1459 = NR 16 CK 141 35 0808 1543 = //9042, 6352, 4156 kHz	CW	(JPL)
M95	8-8	1202	6557	Sat	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	8-8	1202	11475	Sat	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	8-8	1232	3375	Sat	i.p. NR 781/CCK CK 91 28 0808 2015 RMKS 0352 TO 0330 =	CW	(JPL)
M95	11-8	1646	3903	Tue	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	11-8	1646	6886	Tue	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	12-8	0927	11475	Wed	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	14-8	1145	6876	Fri	NR 06659 CK 370 35 0814 1522 = //4542 kHz	CW	(JPL)
M95	14-8	1148	9042	Fri	NR 056 CK 37 35 0814 1454 = NR 28 CK 126 35 0814 1518 = //9042, 6352, 4156 kHz	CW	(JPL)
M95	14-8	1552	6886	Fri	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	16-8	1706	3903	Sun	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	16-8	1706	6886	Sun	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	17-8	1206	6557	Mon	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	17-8	1206	11475	Mon	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)

M95	17-8	1335	5040	Mon	i.p. 191 24 01 8 094 3930 RMKS 13US TO 69U6 ...	CW	(JPL)
M95	17-8	1645	3903	Mon	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	17-8	1645	6886	Mon	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	18-8	1551	3903	Tue	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	18-8	1551	6886	Tue	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	19-8	1018	11475	Wed	WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	19-8	1131	6876	Wed	NR 0678 CK 693 35 0819 1635 = //4542 kHz	CW	(JPL)
M95	19-8	1154	9042	Wed	NR 38 CK 164 35 0819 1453 = //9042, 6352, 4156 kHz	CW	(JPL)
M95	19-8	1612	3903	Wed	WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	19-8	1612	6886	Wed	WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	20-8	1036	11475	Thu	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	20-8	1149	6876	Thu	BNGC DE XS30 NR 0687 CK 602 35 0820 ..52 = //4542 kHz	CW	(JPL)
M95	20-8	1152	9042	Thu	NR 40 CK 159 35 0820 1505 = //9042, 6352, 4156 kHz	CW	(JPL)
M95	20-8	1205	5672	Thu	i.p. NR 006/CCK CK 40 91 1820 2000 RMKS 7833 TO 5325 7205 5079 =	CW	(JPL)
M95	24-8	1126	6557	Mon	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	24-8	1126	11475	Mon	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	24-8	1210	6352	Mon	NR 48 CK 154 35 0824 1526 = //9042, 6352, 4156 kHz	CW	(JPL)
M95	24-8	1504	3903	Mon	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	24-8	1504	6886	Mon	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	28-8	1628	3903	Fri	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	28-8	1628	6886	Fri	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	29-8	1145	6876	Sat	NR 0742 CK 690 35 08UN A6AN = //4542 kHz	CW	(JPL)
M95	29-8	1147	9042	Sat	NR 011 CK 13 35 0829 1432 = NR 58 CK 162 35 0829 1547 = //9042, 6352, 4156 UTC	CW	(JPL)
M95	29-8	1208	6557	Sat	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	29-8	1208	11475	Sat	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	29-8	1225	7766	Sat	i.p. NR 3585/CCK CK 19 25 0836 1000 RMKS GZGG TO 45GK =	CW	(JPL)
M95	30-8	1108	6557	Sun	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	30-8	1108	11475	Sun	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	30-8	1148	6876	Sun	BNGC DE XS30 NR 0745 CK 695 35 0830 1647 = //4542 kHz	CW	(JPL)
M95	30-8	1151	9042	Sun	NR 014 CK 29 35 0830 1530 = NR 088 CK 49 35 0830 1531 = NR 60 CK 186 35 0830 1534 = //9042 6352, 4156 kHz	CW	(JPL)
M95	30-8	1447	3903	Sun	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	30-8	1447	6886	Sun	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	30-8	1459	5017	Sun	i.p. NR 001/CCK CK 41 01 0003 RMKS 6030 TO 6010 =	CW	(JPL)
M95	31-8	1019	11475	Mon	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	31-8	1149	6876	Mon	BNGC DE XS30 NR 0750 CK 643 35 0831 1635 = //4542 kHz	CW	(JPL)
M95	31-8	1152	9042	Mon	NR 62 CK 140 35 0831 1517 = //9042, 6352, 4156 kHz	CW	(JPL)
M95	31-8	1530	3903	Mon	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	31-8	1530	6886	Mon	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
MX	29-8	1214	7577	Sat	V	CW	(JPL)
P03	1-8	1020	7840	Sat	Polish intel.	PSK	(AB)
P03	1-8	1025	7840	Sat	Polish intel.	PSK	(AB)

P03	1-8	1245	6480	Sat	Polish intel.	PSK	(AB)
P03	1-8	1250	6480	Sat	Polish intel.	PSK	(AB)
P03	1-8	1310	11103	Sat	Polish intel.	PSK	(AB)
P03	1-8	1315	11103	Sat	Polish intel.	PSK	(AB)
P03	2-8	0530	10448	Sun	Polish intel.	PSK	(AB)
P03	2-8	0535	10448	Sun	Polish intel.	PSK	(AB)
P03	2-8	1020	7840	Sun	Polish intel.	PSK	(AB)
P03	2-8	1020	7840	Sun	Polish intel.	PSK	(AB)
P03	2-8	1100	9963	Sun	Polish intel.	PSK	(AB)
P03	2-8	1100	9963	Sun	Polish intel.	PSK	(AB)
P03	2-8	1220	19515	Sun	Polish intel.	PSK	(AB)
P03	2-8	1225	19515	Sun	Polish intel.	PSK	(AB)
P03	2-8	1245	6480	Sun	Polish intel.	PSK	(AB)
P03	2-8	1250	6480	Sun	Polish intel.	PSK	(AB)
P03	2-8	1515	21906	Sun	Polish intel.	PSK	(AB)
P03	2-8	1520	21906	Sun	Polish intel.	PSK	(AB)
P03	2-8	1725	14759	Sun	Polish intel.	PSK	(AB)
P03	2-8	1730	14759	Sun	Polish intel.	PSK	(AB)
P03	2-8	1950	8456	Sun	Polish intel.	PSK	(AB)
P03	2-8	1955	8456	Sun	Polish intel.	PSK	(AB)
P03	5-8	1115	11103	Wed	Polish intel.	PSK	(AB)
P03	5-8	1120	11103	Wed	Polish intel.	PSK	(AB)
P03	7-8	0530	10448	Fri	Polish intel.	PSK	(AB)
P03	7-8	0535	10448	Fri	Polish intel.	PSK	(AB)
P03	7-8	1100	9963	Fri	Polish intel.	PSK	(AB)
P03	7-8	1100	9963	Fri	Polish intel.	PSK	(AB)
P03	7-8	1500	9049	Fri	Polish intel.	PSK	(AB)
P03	7-8	1505	9049	Fri	Polish intel.	PSK	(AB)
P03	8-8	1020	7840	Sat	Polish intel.	PSK	(AB)
P03	8-8	1025	7840	Sat	Polish intel.	PSK	(AB)
P03	8-8	1245	6480	Sat	Polish intel.	PSK	(AB)
P03	8-8	1250	6480	Sat	Polish intel.	PSK	(AB)
P03	8-8	1310	11103	Sat	Polish intel.	PSK	(AB)
P03	8-8	1315	11103	Sat	Polish intel.	PSK	(AB)
P03	9-8	0530	10448	Sun	Polish intel.	PSK	(AB)
P03	9-8	0535	10448	Sun	Polish intel.	PSK	(AB)
P03	9-8	1020	7840	Sun	Polish intel.	PSK	(AB)
P03	9-8	1020	7840	Sun	Polish intel.	PSK	(AB)
P03	9-8	1100	9963	Sun	Polish intel.	PSK	(AB)
P03	9-8	1100	9963	Sun	Polish intel.	PSK	(AB)
P03	9-8	1220	19515	Sun	Polish intel.	PSK	(AB)
P03	9-8	1225	19515	Sun	Polish intel.	PSK	(AB)

P03	9-8	1245	6480	Sun	Polish intel.	PSK	(AB)
P03	9-8	1250	6480	Sun	Polish intel.	PSK	(AB)
P03	9-8	1515	21906	Sun	Polish intel.	PSK	(AB)
P03	9-8	1520	21906	Sun	Polish intel.	PSK	(AB)
P03	9-8	1725	14759	Sun	Polish intel.	PSK	(AB)
P03	9-8	1730	14759	Sun	Polish intel.	PSK	(AB)
P03	9-8	1950	8456	Sun	Polish intel.	PSK	(AB)
P03	9-8	1955	8456	Sun	Polish intel.	PSK	(AB)
P03	11-8	1500	9049	Tue	Polish intel.	PSK	(AB)
P03	11-8	1505	9049	Tue	Polish intel.	PSK	(AB)
P03	11-8	1725	14759	Tue	Polish intel.	PSK	(AB)
P03	11-8	1730	14759	Tue	Polish intel.	PSK	(AB)
P03	12-8	1115	11103	Wed	Polish intel.	PSK	(AB)
P03	12-8	1120	11103	Wed	Polish intel.	PSK	(AB)
P03	14-8	0530	10448	Fri	Polish intel.	PSK	(AB)
P03	14-8	0535	10448	Fri	Polish intel.	PSK	(AB)
P03	14-8	1100	9963	Fri	Polish intel.	PSK	(AB)
P03	14-8	1100	9963	Fri	Polish intel.	PSK	(AB)
P03	14-8	1500	9049	Fri	Polish intel.	PSK	(AB)
P03	14-8	1505	9049	Fri	Polish intel.	PSK	(AB)
P03	15-8	1020	7840	Sat	Polish intel.	PSK	(AB)
P03	15-8	1025	7840	Sat	Polish intel.	PSK	(AB)
P03	15-8	1245	6480	Sat	Polish intel.	PSK	(AB)
P03	15-8	1250	6480	Sat	Polish intel.	PSK	(AB)
P03	15-8	1310	11103	Sat	Polish intel.	PSK	(AB)
P03	15-8	1315	11103	Sat	Polish intel.	PSK	(AB)
P03	16-8	0530	10448	Sun	Polish intel.	PSK	(AB)
P03	16-8	0535	10448	Sun	Polish intel.	PSK	(AB)
P03	16-8	1020	7840	Sun	Polish intel.	PSK	(AB)
P03	16-8	1020	7840	Sun	Polish intel.	PSK	(AB)
P03	16-8	1100	9963	Sun	Polish intel.	PSK	(AB)
P03	16-8	1100	9963	Sun	Polish intel.	PSK	(AB)
P03	16-8	1220	19515	Sun	Polish intel.	PSK	(AB)
P03	16-8	1225	19515	Sun	Polish intel.	PSK	(AB)
P03	16-8	1245	6480	Sun	Polish intel.	PSK	(AB)
P03	16-8	1250	6480	Sun	Polish intel.	PSK	(AB)
P03	16-8	1515	21906	Sun	Polish intel.	PSK	(AB)
P03	16-8	1520	21906	Sun	Polish intel.	PSK	(AB)
P03	16-8	1725	14759	Sun	Polish intel.	PSK	(AB)
P03	16-8	1730	14759	Sun	Polish intel.	PSK	(AB)
P03	16-8	1950	8456	Sun	Polish intel.	PSK	(AB)
P03	16-8	1955	8456	Sun	Polish intel.	PSK	(AB)

P03	17-8	1220	19515	Mon	Polish intel.	PSK	(AB)
P03	17-8	1225	19515	Mon	Polish intel.	PSK	(AB)
P03	18-8	1500	9049	Tue	Polish intel.	PSK	(AB)
P03	18-8	1505	9049	Tue	Polish intel.	PSK	(AB)
P03	18-8	1725	14759	Tue	Polish intel.	PSK	(AB)
P03	18-8	1730	14759	Tue	Polish intel.	PSK	(AB)
P03	19-8	1310	11103	Wed	Polish intel.	PSK	(AB)
P03	19-8	1315	11103	Wed	Polish intel.	PSK	(AB)
P03	21-8	0530	10448	Fri	Polish intel.	PSK	(AB)
P03	21-8	0535	10448	Fri	Polish intel.	PSK	(AB)
P03	21-8	1100	9963	Fri	Polish intel.	PSK	(AB)
P03	21-8	1100	9963	Fri	Polish intel.	PSK	(AB)
P03	21-8	1500	9049	Fri	Polish intel.	PSK	(AB)
P03	21-8	1505	9049	Fri	Polish intel.	PSK	(AB)
P03	22-8	1020	7840	Sat	Polish intel.	PSK	(AB)
P03	22-8	1025	7840	Sat	Polish intel.	PSK	(AB)
P03	22-8	1245	6480	Sat	Polish intel.	PSK	(AB)
P03	22-8	1250	6480	Sat	Polish intel.	PSK	(AB)
P03	22-8	1310	11103	Sat	Polish intel.	PSK	(AB)
P03	22-8	1315	11103	Sat	Polish intel.	PSK	(AB)
P03	23-8	0530	10448	Sun	Polish intel.	PSK	(AB)
P03	23-8	0535	10448	Sun	Polish intel.	PSK	(AB)
P03	23-8	1020	7840	Sun	Polish intel.	PSK	(AB)
P03	23-8	1020	7840	Sun	Polish intel.	PSK	(AB)
P03	23-8	1100	9963	Sun	Polish intel.	PSK	(AB)
P03	23-8	1100	9963	Sun	Polish intel.	PSK	(AB)
P03	23-8	1220	19515	Sun	Polish intel.	PSK	(AB)
P03	23-8	1225	19515	Sun	Polish intel.	PSK	(AB)
P03	23-8	1245	6480	Sun	Polish intel.	PSK	(AB)
P03	23-8	1250	6480	Sun	Polish intel.	PSK	(AB)
P03	23-8	1515	21906	Sun	Polish intel.	PSK	(AB)
P03	23-8	1520	21906	Sun	Polish intel.	PSK	(AB)
P03	23-8	1725	14759	Sun	Polish intel.	PSK	(AB)
P03	23-8	1730	14759	Sun	Polish intel.	PSK	(AB)
P03	23-8	1950	8456	Sun	Polish intel.	PSK	(AB)
P03	23-8	1955	8456	Sun	Polish intel.	PSK	(AB)
P03	24-8	1220	19515	Mon	Polish intel.	PSK	(AB)
P03	24-8	1225	19515	Mon	Polish intel.	PSK	(AB)
P03	25-8	1500	9049	Tue	Polish intel.	PSK	(AB)
P03	25-8	1505	9049	Tue	Polish intel.	PSK	(AB)
P03	25-8	1725	14759	Tue	Polish intel.	PSK	(AB)
P03	25-8	1730	14759	Tue	Polish intel.	PSK	(AB)

P03	26-8	1310	11103	Wed	Polish intel.	PSK	(AB)
P03	26-8	1315	11103	Wed	Polish intel.	PSK	(AB)
P03	28-8	0530	10448	Fri	Polish intel.	PSK	(AB)
P03	28-8	0535	10448	Fri	Polish intel.	PSK	(AB)
P03	28-8	1100	9963	Fri	Polish intel.	PSK	(AB)
P03	28-8	1100	9963	Fri	Polish intel.	PSK	(AB)
P03	28-8	1500	9049	Fri	Polish intel.	PSK	(AB)
P03	28-8	1505	9049	Fri	Polish intel.	PSK	(AB)
P03	28-8	1515	21906	Fri	Polish intel.	PSK	(AB)
P03	28-8	1520	21906	Fri	Polish intel.	PSK	(AB)
P03	29-8	1020	7840	Sat	Polish intel.	PSK	(AB)
P03	29-8	1025	7840	Sat	Polish intel.	PSK	(AB)
P03	29-8	1245	6480	Sat	Polish intel.	PSK	(AB)
P03	29-8	1250	6480	Sat	Polish intel.	PSK	(AB)
P03	29-8	1310	11103	Sat	Polish intel.	PSK	(AB)
P03	29-8	1315	11103	Sat	Polish intel.	PSK	(AB)
P03	30-8	0530	10448	Sun	Polish intel.	PSK	(AB)
P03	30-8	0535	10448	Sun	Polish intel.	PSK	(AB)
P03	30-8	1020	7840	Sun	Polish intel.	PSK	(AB)
P03	30-8	1020	7840	Sun	Polish intel.	PSK	(AB)
P03	30-8	1100	9963	Sun	Polish intel.	PSK	(AB)
P03	30-8	1100	9963	Sun	Polish intel.	PSK	(AB)
P03	30-8	1220	19515	Sun	Polish intel.	PSK	(AB)
P03	30-8	1225	19515	Sun	Polish intel.	PSK	(AB)
P03	30-8	1245	6480	Sun	Polish intel.	PSK	(AB)
P03	30-8	1250	6480	Sun	Polish intel.	PSK	(AB)
P03	30-8	1515	21906	Sun	Polish intel.	PSK	(AB)
P03	30-8	1520	21906	Sun	Polish intel.	PSK	(AB)
P03	30-8	1725	14759	Sun	Polish intel.	PSK	(AB)
P03	30-8	1730	14759	Sun	Polish intel.	PSK	(AB)
P03	30-8	1950	8456	Sun	Polish intel.	PSK	(AB)
P03	30-8	1955	8456	Sun	Polish intel.	PSK	(AB)
P03	31-8	1220	19515	Mon	Polish intel.	PSK	(AB)
P03	31-8	1225	19515	Mon	Polish intel.	PSK	(AB)
P03j	3-8	0630	17535	Mon	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	3-8	0635	17535	Mon	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	5-8	0630	17535	Wed	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	5-8	0635	17535	Wed	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	5-8	0800	18030	Wed	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	5-8	0805	18030	Wed	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	7-8	1315	16335	Fri	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	7-8	1320	16335	Fri	Polish intel.	QPSK 100Bd/504bp	(AB)

P03j	10-8	0630	17535	Mon	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	10-8	0635	17535	Mon	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	12-8	0630	17535	Wed	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	12-8	0635	17535	Wed	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	12-8	0800	18030	Wed	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	12-8	0805	18030	Wed	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	12-8	1315	16335	Wed	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	12-8	1320	16335	Wed	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	14-8	1315	16335	Fri	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	14-8	1320	16335	Fri	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	17-8	0630	17535	Mon	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	17-8	0635	17535	Mon	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	19-8	0630	17535	Wed	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	19-8	0635	17535	Wed	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	19-8	0800	18030	Wed	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	19-8	0805	18030	Wed	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	19-8	1315	16335	Wed	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	19-8	1320	16335	Wed	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	21-8	1315	16335	Fri	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	21-8	1320	16335	Fri	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	24-8	0630	17535	Mon	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	24-8	0635	17535	Mon	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	26-8	0630	17535	Wed	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	26-8	0635	17535	Wed	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	26-8	0800	18030	Wed	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	26-8	0805	18030	Wed	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	26-8	1315	16335	Wed	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	26-8	1320	16335	Wed	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	28-8	1315	16335	Fri	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	28-8	1320	16335	Fri	Polish intel.	QPSK 100Bd/504bp	(AB)
P03k	1-8	0630	7772	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	1-8	0635	7772	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	1-8	1230	21906	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	1-8	1230	21906	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	1-8	1730	10120	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	1-8	1735	10120	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	2-8	0630	7772	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	2-8	0635	7772	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	5-8	1730	10210	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	5-8	1735	10210	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	8-8	0630	7772	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	8-8	0635	7772	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)

P03k	8-8	1730	10120	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	8-8	1735	10120	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	9-8	0630	7772	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	9-8	0635	7772	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	12-8	1730	10210	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	12-8	1735	10210	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	15-8	0630	7772	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	15-8	0635	7772	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	15-8	1730	10120	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	15-8	1735	10120	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	16-8	0630	7772	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	16-8	0635	7772	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	18-8	1230	21906	Tue	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	18-8	1230	21906	Tue	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	19-8	1730	10210	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	19-8	1735	10210	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	22-8	0630	7772	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	22-8	0635	7772	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	22-8	1230	21906	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	22-8	1230	21906	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	22-8	1730	10120	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	22-8	1735	10120	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	23-8	0630	7772	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	23-8	0635	7772	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	25-8	1230	21906	Tue	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	25-8	1230	21906	Tue	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	26-8	1730	10210	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	26-8	1735	10210	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	29-8	0630	7772	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	29-8	0635	7772	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	29-8	1230	21906	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	29-8	1230	21906	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	29-8	1730	10120	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	29-8	1735	10120	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	30-8	0630	7772	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	30-8	0635	7772	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03I	3-8	1200	9371	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	3-8	1205	9371	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	5-8	1345	11531	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	5-8	1350	11531	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	6-8	1200	9371	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	6-8	1205	9371	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)

P03I	7-8	1345	11351	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	7-8	1350	11351	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	10-8	1200	9371	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	10-8	1205	9371	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	12-8	1345	11531	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	12-8	1350	11531	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	13-8	1200	9371	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	13-8	1205	9371	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	14-8	1345	11351	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	14-8	1350	11351	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	17-8	1200	9371	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	17-8	1205	9371	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	19-8	1345	11531	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	19-8	1350	11531	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	20-8	1200	9371	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	20-8	1205	9371	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	21-8	1345	11351	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	21-8	1350	11351	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	24-8	1200	9371	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	24-8	1205	9371	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	26-8	1345	11531	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	26-8	1350	11531	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	27-8	1200	9371	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	27-8	1205	9371	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	28-8	1345	11351	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	28-8	1350	11351	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	31-8	1200	9371	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	31-8	1205	9371	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P07	17-7	0946	10719	Fri	Russian intel. P07 variant, 2m 2-tones callup, 1 block	QPSK	(PY)
P07	17-7	0952	10719	Fri	Russian intel. P07 variant, 2m 2-tones callup, 1 block	QPSK	(PY)
P07	2-8	1400	9214	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	2-8	1410	8187	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	2-8	1420	7534	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	2-8	1430	6782	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	2-8	1440	5899	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	2-8	1450	5184	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	5-8	1400	9214	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	5-8	1410	8187	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	5-8	1420	7534	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	5-8	1430	6782	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	5-8	1440	5899	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	5-8	1450	5184	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)

P07	9-8	1400	9214	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	9-8	1410	8187	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	9-8	1420	7534	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	9-8	1430	6782	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	9-8	1440	5899	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	9-8	1450	5184	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	10-8	1315	10250	Mon	Russian intel. 1 block	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(PY)
P07	10-8	1320	9702	Mon	Russian intel. 1 block	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(PY)
P07	10-8	1325	9445	Mon	Russian intel. 1 block	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(PY)
P07	11-8	1130	10250	Tue	Russian intel. 1 block	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(PY)
P07	11-8	1135	9702	Tue	Russian intel. 1 block	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(PY)
P07	11-8	1140	9445	Tue	Russian intel. 1 block	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(PY)
P07	12-8	1400	9214	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	12-8	1410	8187	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	12-8	1420	7534	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	12-8	1430	6782	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	12-8	1440	5899	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	12-8	1450	5184	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	16-8	1400	9214	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	16-8	1410	8187	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	16-8	1420	7534	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	16-8	1430	6782	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	16-8	1440	5899	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	16-8	1450	5184	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	19-8	1400	9214	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	19-8	1410	8187	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	19-8	1420	7534	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	19-8	1430	6782	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	19-8	1440	5899	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	19-8	1450	5184	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	23-8	1400	9214	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	23-8	1410	8187	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	23-8	1420	7534	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	23-8	1430	6782	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	23-8	1440	5899	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	23-8	1450	5184	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	26-8	1400	9214	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	26-8	1410	8187	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	26-8	1420	7534	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	26-8	1430	6782	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	26-8	1440	5899	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	26-8	1450	5184	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)

P07	30-8	1400	9214	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	30-8	1410	8187	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	30-8	1420	7534	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	30-8	1430	6782	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	30-8	1440	5899	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	30-8	1450	5184	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
Q26	1-8	1132	6876	Sat	Message //4542 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	1-8	1142	9042	Sat	Message //9042, 6352, 4156 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	2-8	1002	5457.75	Sun	ZNN SK ZNN SK ZNN SK ZNN SK ZNN SK ZNN SK ZNN SK ZNN SK ZNN SK ZNN SK ...	4+4 QPSK 75/1000 LSB	(JPL)
Q26	2-8	1134	6876	Sun	Message //4542 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	2-8	1142	9042	Sun	Message //9042, 6352, 4156 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	2-8	1228	5565.75	Sun	Message	4+4 QPSK 75/1000 LSB	(JPL)
Q26	2-8	1234	6426.75	Sun	Message	4+4 QPSK 75/1000 LSB	(JPL)
Q26	2-8	1543	5457.75	Sun	ZNN SK ZNN SK ZNN SK ZNN SK ZNN SK ZNN SK ZNN SK ZNN SK ZNN SK ZNN SK (Cont'd)	4+4 QPSK 75/1000 LSB	(JPL)
Q26	3-8	1132	6876	Mon	Message //4542 jHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	3-8	1146	9042	Mon	Message //9042, 6352, 4156 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	3-8	1228	4469.25	Mon	HS2A HS2A HS2A DE POJW POJW POJW XYXYXYXYXYXY HR MSG GA PSE NOTE CY	4+4 QPSK 75/1000 LSB	(JPL)
Q26	3-8	1608	6278.25	Mon	Message	4+4 QPSK 75/1000 LSB	(JPL)
Q26	4-8	0906	5754.25	Tue	Message	4+4 QPSK 75/1000 LSB	(JPL)
Q26	4-8	1107	5284.75	Tue	Message	4+4 QPSK 75/1000 LSB	(JPL)
Q26	4-8	1130	6876	Tue	Message //4542 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	4-8	1156	3692.25	Tue	XYXYXYXYXY HR TRY LL 2163 5748 4102 ... 9810 8073 9645 QSL? Switched to unknown digital mode	4+4 QPSK 75/1000 LSB	(JPL)
Q26	4-8	1213	3692.25	Tue	MSG AGN MZ=1234651=05=092424=283866=302352=204=259=091001=091124=15=114=090504... QSL? IKN Switched to unknown digital mode	4+4 QPSK 75/1000 LSB	(JPL)
Q26	4-8	1219	3688.25	Tue	Message	4+4 QPSK 75/1000 LSB	(JPL)
Q26	5-8	0908	6552.25	Wed	NK6U NK6U NK6U DE 5PYB 5PYB 5PYB XYXYXYXYXYXY CY GD QSL 1715 AHR MSG GA 2991=CCK 191 24 0805 1700	4+4 QPSK 75/1000 LSB	(JPL)
Q26	7-8	1034	5751.75	Fri	Message	4+4 QPSK 75/1000 LSB	(JPL)
Q26	8-8	1052	5288.50	Sat	Message	4+4 QPSK 75/1000 LSB	(JPL)
Q26	8-8	1132	6876	Sat	Message //4542kHz	4+4 QPSK 75/1000 LSB	(JPL)

Q26	14-8	1130	6876	Fri	Message //4542 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	14-8	1146	9042	Fri	Message //9042, 6352, 4156 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	17-8	1221	5457.75	Mon	1213 0030 2240 7540 3611 0651 4299 1066 0837 4726 ... 8T6K 8T6K 8T6K DE JP5H JP5H JP5H XYXYXYXYXY HR MSG GA	4+4 QPSK 75/1000 LSB	(JPL)
Q26	17-8	1248		Mon	Message	4+4 QPSK 75/1000 LSB	(JPL)
Q26	18-8	1543	5423.15	Tue	Message	4+4 QPSK 75/1000 LSB	(JPL)
Q26	19-8	1025		Wed	Message	4+4 QPSK 75/1000 LSB	(JPL)
Q26	19-8	1130	6876	Wed	Message //4542 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	19-8	1148	9042	Wed	Message //9042, 6352, 4156 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	19-8	1559	4534.75	Wed	Message	4+4 QPSK 75/1000 LSB	(JPL)
Q26	20-8	1131		Thu	Message //4542 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	24-8	1227	5289.66	Mon	Message	4+4 QPSK 75/1000 LSB	(JPL)
Q26	24-8	1230		Mon	Message. Did not go to M95 //6876 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	29-8	1131	6876	Sat	Message //4542 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	30-8	1131	6876	Sun	Message //4542 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	31-8	1131	6876	Mon	Message //4542 kHz	4+4 QPSK 75/1000 LSB	(JPL)
RUS7	11-8	0853	10250	Tue	carrier for 2 hours	CW	(PY)
S06	3-8	0400	11616	Mon	480 123 57 15512 84037 23733 ... 65019 12426 19396 123 57 00000	USB	(Subilo)
S06	3-8	0420	9322	Mon	480 123 57 15512 84037 23733 ... 65019 12426 19396 123 57 00000	USB	(Subilo/AB-J)
S06	4-8	0400	11616	Tue	480 123 57 15512 84037 23733 ... 65019 12426 19396 123 57 00000	USB	(Subilo)
S06	4-8	0420	9322	Tue	480 123 57 15512 84037 23733 ... 65019 12426 19396 123 57 00000	USB	(Subilo)
S06	5-8	0400	11616	Wed	480 567 24 79897 74967 45917 ... 90153 96726 72382 567 24 480 195 23 48039 73419 36997 ... 64085 86421 33707 195 23 00000	USB	(Subilo)
S06	5-8	0420	9322	Wed	480 567 24 79897 74967 45917 ... 90153 96726 72382 567 24 480 195 23 48039 73419 36997 ... 64085 86421 33707 195 23 00000	USB	(Subilo)
S06	6-8	0400	11616	Thu	480 567 24 79897 74967 45917 ... 90153 96726 72382 567 24 480 195 23 48039 73419 36997 ... 64085 86421 33707 195 23 00000	USB	(Subilo)
S06	6-8	0420	9322	Thu	480 567 24 79897 74967 45917 ... 90153 96726 72382 567 24 480 195 23 48039 73419 36997 ... 64085 86421 33707 195 23 00000	USB	(Subilo)
S06	7-8	0400	11616	Fri	480 480 480 00000	USB	(Subilo/Lac)
S06	7-8	0420	9322	Fri	480 480 480 00000	USB	(Subilo/Lac)
S06	7-8	1900	11149	Fri	842 842 842 00000	USB	(AB)
S06	7-8	2000	9205	Fri	842 842 842 00000	USB	(AB)
S06	10-8	0400	11616	Mon	480 279 51 04018 62141 41347 ... 41499 07925 75419 279 51 00000	USB	(Subilo)
S06	10-8	0420	9322	Mon	480 279 51 04018 62141 41347 ... 41499 07925 75419 279 51 00000	USB	(Subilo)
S06	11-8	0400	11616	Tue	480 279 51 04018 62141 41347 ... 41499 07925 75419 279 51 00000	USB	(Subilo)
S06	11-8	0420	9322	Tue	480 279 51 04018 62141 41347 ... 41499 07925 75419 279 51 00000	USB	(Subilo)
S06	12-8	0400	11616	Wed	480 136 27 20536 43447 69191 ... 56264 97887 97160 136 27 480 197 23 01232 87602	USB	(Subilo)

					29620,,, 85460 31642 06388 197 23 00000		
S06	12-8	0420	9322	Wed	480 136 27 20536 43447 69191 ... 56264 97887 97160 136 27 480 197 23 01232 87602 29620,,, 85460 31642 06388 197 23 00000	USB	(Subilo)
S06	13-8	0400	11616	Thu	480 136 27 20536 43447 69191 ... 56264 97887 97160 136 27 480 197 23 01232 87602 29620,,, 85460 31642 06388 197 23 00000	USB	(Subilo)
S06	13-8	0420	9322	Thu	480 136 27 20536 43447 69191 ... 56264 97887 97160 136 27 480 197 23 01232 87602 29620,,, 85460 31642 06388 197 23 00000	USB	(Subilo)
S06	14-8	0400	11616	Fri	480 480 480 00000	USB	(Subilo)
S06	14-8	0420	9322	Fri	480 480 480 00000	USB	(Subilo)
S06	17-8	0400	11616	Mon	480 325 60 70050 07783 14944 ... 21823 85875 24822 325 60 00000	USB	(Subilo)
S06	17-8	0420	9322	Mon	480 325 60 70050 07783 14944 ... 21823 85875 24822 325 60 00000	USB	(Subilo)
S06	18-8	0400	11616	Tue	480 325 60 70050 07783 14944 ... 21823 85875 24822 325 60 00000	USB	(Subilo)
S06	18-8	0420	9322	Tue	480 325 60 70050 07783 14944 ... 21823 85875 24822 325 60 00000	USB	(Subilo)
S06	19-8	0400	11616	Wed	480 691 29 20311 10764 93683 ... 06657 94935 69478 691 23 480 753 21 58603 05944 24585 ... 21042 44735 17302 753 21 00000	USB	(Subilo)
S06	19-8	0420	9322	Wed	480 691 29 20311 10764 93683 ... 06657 94935 69478 691 23 480 753 21 58603 05944 24585 ... 21042 44735 17302 753 21 00000	USB	(Subilo)
S06	20-8	0400	11616	Thu	480 691 29 20311 10764 93683 ... 06657 94935 69478 691 23 480 753 21 58603 05944 24585 ... 21042 44735 17302 753 21 00000	USB	(Subilo)
S06	20-8	0420	9322	Thu	480 691 29 20311 10764 93683 ... 06657 94935 69478 691 23 480 753 21 58603 05944 24585 ... 21042 44735 17302 753 21 00000	USB	(Subilo)
S06	21-8	0400	11616	Fri	480 480 480 00000	USB	(Subilo)
S06	21-8	0420	9322	Fri	480 480 480 00000	USB	(Subilo)
S06	21-8	1900	11149	Fri	842 842 842 00000	USB	(AB/Lac)
S06	21-8	2000	9205	Fri	842 842 842 00000	USB	(AB/Lac)
S06	24-8	0400	11616	Mon	480 162 53 17443 89797 68604 ... 44294 95344 86514 162 53 00000	USB	(Subilo)
S06	24-8	0420	9322	Mon	480 162 53 17443 89797 68604 ... 44294 95344 86514 162 53 00000	USB	(Subilo)
S06	25-8	0400	11616	Tue	480 162 53 17443 89797 68604 ... 44294 95344 86514 162 53 00000	USB	(Subilo)
S06	25-8	0420	9322	Tue	480 162 53 17443 89797 68604 ... 44294 95344 86514 162 53 00000	USB	(Subilo)
S06	26-8	0400	11616	Wed	480 397 24 06518 82338 37663 ... 48959 82684 65854 397 24 480 261 34 63323 13688 97677 ... 43770 88310 31527 261 34 00000	USB	(Subilo)
S06	26-8	0420	9322	Wed	480 397 24 06518 82338 37663 ... 48959 82684 65854 397 24 480 261 34 63323 13688 97677 ... 43770 88310 31527 261 34 00000	USB	(Subilo)
S06	27-8	0400	11616	Thu	480 397 24 06518 82338 37663 ... 48959 82684 65854 397 24 480 261 34 63323 13688 97677 ... 43770 88310 31527 261 34 00000	USB	(Subilo)
S06	27-8	0420	9322	Thu	480 397 24 06518 82338 37663 ... 48959 82684 65854 397 24 480 261 34 63323 13688 97677 ... 43770 88310 31527 261 34 00000	USB	(Subilo)
S06	28-8	0400	11616	Fri	480 480 480 00000	USB	(Subilo)
S06	28-8	0420	9322	Fri	480 480 480 00000	USB	(Subilo)
S06	31-8	0400	11616	Mon	480 539 60 71236 64028 61514 ... 75390 88615 10024 539 60 00000	USB	(Subilo)
S06	31-8	0420	9322	Mon	480 539 60 71236 64028 61514 ... 75390 88615 10024 539 60 00000	USB	(Subilo)
S11a	1-8	0830	5149	Sat	379/00 Konets	USB	(AB/Lac)

S11a	1-8	1850	12457	Sat	285/00 Konets	USB	(AB/Lac)
S11a	2-8	0830	5149	Sun	372/00 Konets	USB	(AB)
S11a	3-8	0700	9339	Mon	477/00 Konets	USB	(AB/Lac)
S11a	3-8	0915	6814	Mon	486/00 Konets	USB	(AB/Lac)
S11a	4-8	0445	9968	Tue	796/00 Konets	USB	(Lac)
S11a	4-8	1400	9448	Tue	426/00 Konets	USB	(AB/Lac)
S11a	5-8	0735	18773	Wed	385/00 Konets	USB	(Lac)
S11a	5-8	1850	12457	Wed	284/00 Konets	USB	(AB/Lac)
S11a	6-8	0445	9968	Thu	794/00 Konets	USB	(Lac)
S11a	6-8	0700	9339	Thu	476/00 Konets	USB	(AB/Lac)
S11a	7-8	0735	18773	Fri	383/00 Konets	USB	(AB/Lac)
S11a	7-8	1400	9448	Fri	426/00 Konets	USB	(AB)
S11a	8-8	0830	5149	Sat	376/00 Konets	USB	(AB)
S11a	8-8	1850	12457	Sat	285/00 Konets	USB	(AB)
S11a	9-8	0830	5149	Sun	376/00 Konets	USB	(AB)
S11a	10-8	0510	16357	Mon	652/00 Konets	USB	(AB-POL)
S11a	10-8	0700	9339	Mon	477/00 Konets	USB	(AB)
S11a	10-8	0915	6814	Mon	487/33 Vnimanije 59341 27390 46131 ... 37110 53577 42106 Vnimanije (msg rptd) Konets	USB	(AB/Subilo)
S11a	11-8	0445	9968	Tue	790/00 Konets	USB	(AB)
S11a	11-8	1400	9448	Tue	420/00 Konets	USB	(AB)
S11a	12-8	0510	16357	Wed	656/00 Konets	USB	(AB)
S11a	12-8	0735	18773	Wed	387/00 Konets	USB	(AB)
S11a	12-8	1850	12457	Wed	287/00 Konets	USB	(AB)
S11a	13-8	0445	9968	Thu	793/00 Konets	USB	(AB)
S11a	13-8	0700	9339	Thu	471/00 Konets	USB	(AB)
S11a	14-8	1040	6814	Fri	487/33 Vnimanije 59341 27390 46131 ... 37110 53577 42106 Vnimanije (msg rptd) Konets	USB	(Subilo)
S11a	14-8	1400	9448	Fri	424/00 Konets	USB	(AB)
S11a	15-8	0830	5149	Sat	372/33 Vnimanije 97255 08885 20305 ... 78797 66528 38970 Vnimanije (msg rptd) Konets	USB	(AB/Subilo)
S11a	15-8	1850	12457	Sat	284/00 Konets	USB	(AB)
S11a	16-8	0830	5149	Sun	372/33 Vnimanije 97255 08885 20305 ... 78797 66528 38970 Vnimanije (msg rptd) Konets	USB	(AB/Subilo)
S11a	17-8	0700	9339	Mon	477/00 Konets	USB	(AB/Lac)
S11a	17-8	0915	6814	Mon	484/00 Konets	USB	(AB/Lac)
S11a	18-8	0445	9968	Tue	797/40 Vnimanije 84995 22648 57586 ... 68964 57146 48975 Vnimanije (msg rptd) Konets	USB	(AB/Subilo)
S11a	18-8	1400	9448	Tue	422/00 Konets	USB	(AB)
S11a	19-8	0510	16357	Wed	659/00 Konets	USB	(AB)
S11a	19-8	0735	18773	Wed	389/00 Konets	USB	(AB-POL)
S11a	19-8	1850	12457	Wed	286/00 Konets	USB	(AB/Lac)
S11a	20-8	0445	9968	Thu	797/40 Vnimanije 84995 22648 57586 ... 68964 57146 48975 Vnimanije (msg rptd) Konets	USB	(AB/Subilo)
S11a	20-8	0700	9339	Thu	477/00 Konets	USB	(AB/Lac)
S11a	21-8	1040	6814	Fri	487/00 Konets	USB	(AB)
S11a	21-8	1400	9448	Fri	429/00 Konets	USB	(AB)
S11a	22-8	0830	5149	Sat	372/00 Konets	USB	(AB)

S11a	22-8	1850	12457	Sat	284/00 Konets	USB	(AB)
S11a	23-8	0830	5149	Sun	371/00 Konets	USB	(AB/Lac)
S11a	24-8	0510	16357	Mon	Unreadable	USB	(AB)
S11a	24-8	0700	9339	Mon	470/33 Vnimanije 55868 50905 82717 ... 35570 77450 60081 Vnimanije (msg rptd) Konets	USB	(AB/Lac)
S11a	24-8	0915	6814	Mon	481/00 Konets	USB	(AB/Lac)
S11a	25-8	1400	9448	Tue	425/32 Vnimanije 35884 97208 35642 ... 19175 78247 86505 Vnimanije (msg rptd) Konets	USB	(AB)
S11a	26-8	0510	16357	Wed	654/38 Vnimanije 93376 98092 87664 ... 03186 42494 36227 Vnimanije (msg rptd) Konets	USB	(AB-POL)
S11a	26-8	0735	18773	Wed	382/37 Vnimanije 98932 17130 98516 ... 09165 59262 22639 Vnimanije (msg rptd) Konets	USB	(AB-POL/Lac/Subilo)
S11a	26-8	1850	12457	Wed	285/34 Vnimanije 06955 05924 05395 ... 20980 24815 27816 Vnimanije (msg rptd) Konets	USB	(AB/Lac/Subilo)
S11a	27-8	0445	9968	Thu	791/00 Konets	USB	(AB)
S11a	27-8	0700	9339	Thu	470/33 Vnimanije 55868 50905 82717 ... 35570 77450 60081 Vnimanije (msg rptd) Konets	USB	(AB/Lac)
S11a	28-8	0735	18773	Fri	382/37 Vnimanije 98932 17130 98516 ... 09165 59262 22639 Vnimanije (msg rptd) Konets	USB	(AB-POL/Lac/Subilo)
S11a	28-8	1040	6814	Fri	484/00 Konets	USB	(AB/Lac)
S11a	28-8	1400	9448	Fri	425/32 Vnimanije 35884 97208 35642 ... 19175 78247 86505 Vnimanije (msg rptd) Konets	USB	(AB/Lac)
S11a	29-8	0830	5149	Sat	372/00 Konets	USB	(AB/Lac)
S11a	29-8	1850	12457	Sat	285/34 Vnimanije 06955 05924 05395 ... 20980 24815 27816 Vnimanije (msg rptd) Konets	USB	(AB/Lac/Subilo)
S11a	30-8	0830	5149	Sun	376/00 Konets	USB	(AB/Lac)
S11a	31-8	0700	9339	Mon	477/00 Konets	USB	(AB/Lac)
S11a	31-8	0915	6814	Mon	483/00 Konets	USB	(AB/Lac)
UM04	1-8	0700	4735	Sat	VVV VVV PROMRCh = 1000 0740 0770 0870 1300 ... 0800 0670 0700 0810 1130 = AR	CW	(AB-GRC)
UM04	2-8	0700	4735	Sun	VVV VVV PROMRCh = 02 08 = 1000 0720 0740 0850 1300 ... 0800 0670 0700 0810 1130 = AR	CW	(AB-GRC)
UM04	3-8	0700	4735	Mon	VVV VVV PROMRCh = 03 08 = 1000 0730 0760 0860 1290 ... 0800 0680 0710 0820 1140 = AR	CW	(Subilo)
UM04	4-8	0700	4735	Tue	VVV VVV PROMRCh = 04 08 = 1000 0740 0770 0870 1290 ... 0800 0690 0720 0830 1160 = AR	CW	(AB-J)
UM04	5-8	0700	4735	Wed	VVV VVV PROMRCh = 05 08 = 1000 0720 0750 0850 1290 ... 0800 0690 0720 0830 1160 = AR	CW	(Subilo)
UM04	6-8	0700	4735	Thu	VVV VVV PROMRCh = 06 08 = 1000 0680 0710 0810 1290 ... 0800 0690 0720 0830 1160 = AR	CW	(AB-HNG)
UM04	7-8	0700	4735	Fri	VVV VVV PROMRCh = 07 08 = 1000 0670 0700 0810 1290 ... 0800 0690 0720 0830 1170 = AR	CW	(AB-HNG)
UM04	8-8	0700	4735	Sat	VVV VVV PROMRCh = 08 08 = 1000 0710 0740 0840 1290 ... 0800 0700 0720 0840 1170 = AR	CW	(AB-GRC)
UM04	9-8	0700	4735	Sun	VVV VVV PROMRCh = 09 08 = 1000 0690 0720 0830 1280 ... 0800 0700 0730 0830 1170 = AR	CW	(AB-GRC)
UM04	10-8	0700	4735	Mon	VVV VVV PROMRCh = 10 08 = 1000 0690 0720 0830 1290 ... 0800 0700 0730 0840 1180 = AR	CW	(AB-HNG)
UM04	11-8	0700	4735	Tue	VVV VVV PROMRCh = 11 08 = 1000 0640 0670 0790 1280 ... 0800 0690 0720 0830 1160 = AR	CW	(AB-HNG)
UM04	12-8	0700	4735	Wed	VVV VVV PROMRCh = 12 08 = 1000 0670 0700 0810 1290 ... 0800 0690 0720 0830 1170 = AR	CW	(AB-HNG)
UM04	13-8	0700	4735	Thu	VVV VVV PROMRCh = 13 08 = 1000 0670 0700 0820 1280 ... 0800 0690 0720 0830 1170 = AR K_ K_ _K_	CW	(AB-HNG)
UM04	14-8	0700	4735	Fri	VVV VVV PROMRCh = 14 08 = 1000 0660 0700 0820 1280 ... 0800 0680 0720 0830 1170 = AR	CW	(AB-HNG)
UM04	15-8	0700	4735	Sat	VVV VVV PROMRCh = 15 08 = 1000 0700 0730 0840 1280 ... 0800 0690 0720 0830 1170 = AR	CW	(AB-GRC)
UM04	16-8	0700	4735	Sun	VVV VVV PROMRCh = 16 08 = 1000 0690 0730 0840 1270 ... 0800 0670 0710 0820 1160 = AR	CW	(AB-GRC)
UM04	17-8	0700	4735	Mon	VVV VVV PROMRCh = 17 08 = 1000 0700 0740 0850 1280 ... 0800 0670 0710 0820 1160 = A	CW	(AB-HNG)
UM04	18-8	0700	4735	Tue	VVV VVV PROMRCh = 18 08 = 1000 0710 0740 0860 1280 ... 0800 0670 0700 0820 1160 = AR	CW	(Subilo)
UM04	19-8	0700	4735	Wed	VVV VVV PROMRCh = 19 08 = 1000 0730 0760 0880 1270 ... 0800 0670 0700 0810 1160 = AR	CW	(Subilo)
UM04	20-8	0659	4735	Thu	VVV VVV PROMRCh = 20 08 = 1000 0740 0770 0880 1270 ... 0800 0670 0700 0820 1160 = AR	CW	(AB-HNG)

UM04	21-8	0700	4735	Fri	VVV VVV PROMRCh = 21 08 = 1000 0720 0760 0870 1270 ... 0800 0660 0690 0810 1160 = AR	CW	(AB-HNG)
UM04	22-8	0659	4735	Sat	VVV VVV PROMRCh = 22 08 = 1000 0730 0770 0890 1270 ... 0800 0660 0690 0800 1150 = AR	CW	(AB-GRC)
UM04	23-8	0700	4735	Sun	VVV VVV PROMRCh = 23 08 = 1000 0720 0750 0870 1270 ... 0800 0650 0690 0800 1140 = AR	CW	(AB-GRC)
UM04	24-8	0701	4735	Mon	VVV VVV PROMRCh = 24 08 = 1000 0740 0770 0890 1270 ... 0800 0650 0690 0800 1140 = AR	CW	(AB-HNG)
UM04	25-8	0700	4735	Tue	VVV VVV PROMRCh = 25 08 = 1000 0750 0780 0900 1270 ... 0800 0650 0680 0800 1140 = AR	CW	(AB-GRC)
UM04	26-8	0700	4735	Wed	VVV VVV PROMRCh = 26 08 = 1000 0740 0770 0890 1270 ... 0800 0650 0690 0800 1140 = AR	CW	(AB-GRC)
UM04	27-8	0700	4735	Thu	VVV VVV PROMRCh 27 08 = 1000 0760 0790 0910 1270 ... 0800 0660 0690 0810 1150 = AR	CW	(AB-HNG)
UM04	28-8	0700	4735	Fri	VVV VVV PROMRCh = 28 08 = 1000 0750 0780 0900 1260 ... 0800 0660 0690 0810 1150 = AR	CW	(AB-HNG)
UM04	29-8	0700	4735	Sat	VVV VVV PROMRCh = 29 08 = 1000 0730 0760 0880 1260 ... 0800 0660 0690 0800 1150 = AR	CW	(AB-GRC)
UM04	30-8	0700	4735	Sun	VVV VVV PROMRCh = 30 08 = 1000 0760 0790 0910 1270 ... 0800 0660 0700 0810 1160 = AR	CW	(AB-GRC)
UM04	31-8	0700	4735	Mon	VVV VVV PROMRCh = 31 08 = 1000 0710 0750 0860 1260 ... 0800 0660 0690 0810 1150 = AR	CW	(Subilo)
UM10	1-8	1150	3257	Sat	SDXL	CW	(JPL)
UM10	1-8	1150	3542	Sat	HDNA	CW	(JPL)
UM10	1-8	1150	3629	Sat	SDXL	CW	(JPL)
UM10	1-8	1150	4116	Sat	HDNA	CW	(JPL)
UM10	1-8	1520	3257	Sat	SDXL	CW	(JPL)
UM10	1-8	1520	3542	Sat	HDNA	CW	(JPL)
UM10	1-8	1520	3629	Sat	SDXL	CW	(JPL)
UM10	1-8	1520	4116	Sat	HDNA	CW	(JPL)
UM10	2-8	1050	3257	Sun	SDXL	CW	(JPL)
UM10	2-8	1050	3542	Sun	HDNA	CW	(JPL)
UM10	2-8	1050	3629	Sun	SDXL	CW	(JPL)
UM10	2-8	1050	4116	Sun	HDNA	CW	(JPL)
UM10	3-8	1150	3257	Mon	SDXL	CW	(JPL)
UM10	3-8	1150	3542	Mon	HDNA	CW	(JPL)
UM10	3-8	1150	3629	Mon	SDXL	CW	(JPL)
UM10	3-8	1150	4116	Mon	HDNA	CW	(JPL)
UM10	4-8	0855	6487	Tue	CWS4	CW	(JPL)
UM10	4-8	0855	6487	Tue	CWS4	CW	(JPL)
UM10	4-8	0855	7268	Tue	CWS4	CW	(JPL)
UM10	4-8	0855	7268	Tue	CWS4	CW	(JPL)
UM10	4-8	1155	3287	Tue	LEQA	CW	(JPL)
UM10	4-8	1155	3886	Tue	LEQA	CW	(JPL)
UM10	5-8	0855	5945	Wed	EQA7	CW	(JPL)
UM10	5-8	0855	6975	Wed	EQA7	CW	(JPL)
UM10	7-8	1025	5945	Fri	EQA7	CW	(JPL)
UM10	7-8	1025	6975	Fri	EQA7	CW	(JPL)
UM10	7-8	1755	4075	Fri	EM4X	CW	(JPL)
UM10	8-8	0955	5945	Sat	EQA7	CW	(JPL)
UM10	8-8	0955	6975	Sat	EQA7	CW	(JPL)
UM10	8-8	1555	3205	Sat	EM4X	CW	(JPL)
UM10	8-8	1555	4075	Sat	EM4X	CW	(JPL)

UM10	11-8	0925	5945	Tue	EQA7	CW	(JPL)
UM10	11-8	0925	6487	Tue	CWS4	CW	(JPL)
UM10	11-8	0925	6975	Tue	EQA7	CW	(JPL)
UM10	11-8	0925	7268	Tue	CWS4	CW	(JPL)
UM10	11-8	1625	3205	Tue	EM4X	CW	(JPL)
UM10	11-8	1625	3287	Tue	LEQA	CW	(JPL)
UM10	11-8	1625	3886	Tue	LEQA	CW	(JPL)
UM10	11-8	1625	4075	Tue	EM4X	CW	(JPL)
UM10	20-8	1055	3205	Thu	EM4X	CW	(JPL)
UM10	20-8	1055	3205	Thu	EM4X	CW	(JPL)
UM10	20-8	1055	3287	Thu	LEQA	CW	(JPL)
UM10	20-8	1055	3886	Thu	LEQA	CW	(JPL)
UM10	20-8	1055	4075	Thu	EM4X	CW	(JPL)
UM10	20-8	1055	4075	Thu	EM4X	CW	(JPL)
UM10	24-8	1455	3287	Mon	LEQA	CW	(JPL)
UM10	24-8	1455	3886	Mon	LEQA	CW	(JPL)
UM10	30-8	1925	3287	Sun	LEQA	CW	(JPL)
UM10	30-8	1925	3886	Sun	LEQA	CW	(JPL)
V07	2-8	0700	13408	Sun	425 425 425 000	USB	(AB-J/Lac)
V07	2-8	0720	12208	Sun	425 425 425 000	USB	(AB-J/Lac)
V07	9-8	0700	13408	Sun	425 425 425 1 2296 116 2296 116 49327 49697 45639 ... 02793 57275 78387 000 000	USB	(AB-J/Lac/Subilo)
V07	9-8	0720	12208	Sun	425 425 425 1 2296 116 2296 116 49327 49697 45639 ... 02793 57275 78387 000 000	USB	(AB-J/Lac/Subilo)
V07	9-8	0740	11508	Sun	425 425 425 1 2296 116 2296 116 49327 49697 45639 ... 02793 57275 78387 000 000	USB	(AB-J/Lac/Subilo)
V07	16-8	0700	13408	Sun	425 425 425 1 1824 114 1824 114 72528 51214 93332 ... 30985 62789 64285 000 000	USB	(AB-J/Lac/Subilo)
V07	16-8	0720	12208	Sun	425 425 425 1 1824 114 1824 114 72528 51214 93332 ... 30985 62789 64285 000 000	USB	(AB-J/Lac/Subilo)
V07	16-8	0740	11508	Sun	425 425 425 1 1824 114 1824 114 72528 51214 93332 ... 30985 62789 64285 000 000	USB	(AB-J/Lac/Subilo)
V07	23-8	0700	13408	Sun	425 425 425 1 5572 73 5572 73 87683 04721 40108 ... 96856 28331 86843 000 000	USB	(AB-J/Lac/Subilo)
V07	23-8	0720	12208	Sun	425 425 425 1 5572 73 5572 73 87683 04721 40108 ... 96856 28331 86843 000 000	USB	(AB-J/Lac/Subilo)
V07	23-8	0740	11508	Sun	425 425 425 1 5572 73 5572 73 87683 04721 40108 ... 96856 28331 86843 000 000	USB	(AB-J/Lac/Subilo)
V07	30-8	0700	13408	Sun	425 425 425 1 3149 121 3149 121 99799 67773 50795 ... 02402 88187 17864 000 000	USB	(AB-USA/Lac/Subilo)
V07	30-8	0720	12208	Sun	425 425 425 1 3149 121 3149 121 99799 67773 50795 ... 02402 88187 17864 000 000	USB	(AB-USA/Lac/Subilo)
V07	30-8	0740	11508	Sun	425 425 425 1 3149 121 3149 121 99799 67773 50795 ... 02402 88187 17864 000 000	USB	(AB-USA/Lac/Subilo)
V13	19-7	0000	15890	Sun	New Star Broadcasting. Station 3. Messages to units 3037, 5430, 7670	USB	(FSpy)
V13	19-7	0030	18040	Sun	New Star Broadcasting. Station 4. Messages to units 2868, 6146, 7791	USB	(FSpy)
V13	27-7	0030	15890	Mon	New Star Broadcasting. Station 3. Messages to units 1250, 4695, 6835	USB	(FSpy)
V13	27-7	0100	20025	Mon	New Star Broadcasting. Station 4. Messages to units 3961, 4615, 8460	USB	(FSpy)
V26	1-8	1140	9042	Sat	Voice traffic in Chinese //9042, 6352, 4156 kHz	USB	(JPL)
V26	4-8	0933	6516	Tue	Voice traffic in Chinese	USB	(JPL)
V26	4-8	1130	6876	Tue	Voice traffic in Chinese //4542 kHz	USB	(JPL)
V26	19-8	1130	6876	Wed	Voice traffic in Chinese //4542 kHz	LSB	(JPL)
V26	19-8	1606	4534.75	Wed	Voice traffic in Chinese followed by an unid digi mode	LSB	(JPL)

V26	24-8	1238	9042	Mon	Voice traffic in Chinese //9042, 6352, 4156 kHz	USB	(JPL)
V28	6-8	0132	3042	Thu	Parrot	AM	(WLTZ)
V28	11-8	2100	3042	Tue	Parrot. Female and male operators	AM	(WLTZ)
V28	13-8	2102	5486	Thu	Parrot	AM	(WLTZ)
V28	16-8	2101	5484	Sun	Parrot	AM	(WLTZ]
V28	17-8	2101	3042	Mon	Parrot. Male operator	AM	(WLTZ)
V28	17-8	2102	5073	Mon	Parrot. Intermittent, broken, sporadic	AM	(HK)
V28	17-8	2102	5485	Mon	Parrot	AM	(HK)
V28	17-8	2106	5486	Mon	Parrot. Female operator	AM	(WLTZ)
V28	18-8	0908	5485.5	Tue	Parrot	AM	(HK)
V28	20-8	2113	3043	Thu	Parrot	AM	(WLTZ)
V28	20-8	2118	5486	Thu	Parrot	AM	(WLTZ)
V28	21-8	0903	5485	Fri	Parrot, instable signal:5485~5487 kHz. Female operator	AM	(HK)
V28	21-8	0914	5485	Fri	Parrot. Male operator. For the most part, there was no modulation.	AM	(HK)
V28	22-8	2100	3042	Sat	Parrot	AM	(WLTZ)
V28	22-8	2100	5486.5	Sat	Parrot	AM	(WLTZ)
V28	25-8	2103	5559	Tue	Parrot	AM	(WLTZ)
V28	25-8	2106	3041	Tue	Parrot	AM	(WLTZ)
V28	26-8	2100	5561	Wed	Parrot	AM	(WLTZ)
V28	26-8	2103	3041	Wed	Parrot	AM	(WLTZ)
V28	26-8	2107	5561	Wed	Parrot. Drifting freq: 5561-5563.5 kHz. Long transmission. Ended at 2141z	AM	(WLTZ)
V28	27-8	2058	5563	Thu	Parrot	AM	(WLTZ)
V28	27-8	2102	3042	Thu	Parrot	AM	(WLTZ)
V28	27-8	2126	5562.75	Thu	Parrot. Drifting transmitter. Long transmission. Ended at 2158z	AM	(WLTZ)
V28	27-8	2158	5562	Thu	Parrot finally off	AM	(WLTZ)
V28	28-8	2100	5561	Fri	Parrot. Drifting signal	AM	(HK)
V28	28-8	2100	5561	Fri	Parrot	AM	(WLTZ)
V28	28-8	2102	3041	Fri	Parrot	AM	(WLTZ)
V28	29-8	2058	5488.5	Sat	Parrot	AM	(WLTZ)
X--	20-8	1035	19032	Thu	Russian intel.	MFSK-21/MFSK-13	(AB)
X--	20-8	1039	18543	Thu	Russian intel.	MFSK-21/MFSK-13	(AB)
X--	20-8	1042	16228	Thu	Russian intel.	MFSK-21/MFSK-13	(AB)
X--	20-8	1046	14827	Thu	Russian intel.	MFSK-21/MFSK-13	(AB)
X06	2-8	0658	14595	Sun	MFA Moscow clg 452163: Russian embassy Kabul	MFSK-6	(T101)
X06	3-8	0747	15989	Mon	MFA Moscow clg 125643: Russian embassy Ulaanbaatar	MFSK-6	(Moon)
X06	3-8	0752	12157	Mon	MFA Moscow clg 165324: Russian embassy Vienna	MFSK-6	(RO)
X06	3-8	0806	13395	Mon	MFA Moscow clg 532614: Russian embassy Paris	MFSK-6	(RO)
X06	4-8	0829	12149	Tue	MFA Moscow clg 154263: Russian embassy Rome	MFSK-6	(Moon)
X06	5-8	0633	13838	Wed	MFA Moscow clg 256341: Russian embassy Beirut	MFSK-6	(RO)
X06	5-8	0833	16115	Wed	MFA Moscow clg 215346: Russian Consulate General Mumbai	MFSK-6	(RO)
X06	6-8	0936	18197	Thu	MFA Moscow clg 645321: Russian Consulate General Ho Chi Minh City	MFSK-6	(RO)
X06	7-8	1019	14824	Fri	MFA Moscow clg 625413: Russian embassy Tel Aviv	MFSK-6	(RO)

X06	9-8	0913	15710	Sun	MFA Moscow clg 261453: Russian embassy Cairo	MFSK-6	(RO)
X06	10-8	0932	19235	Mon	MFA Moscow clg 463125: Russian embassy Rabat	MFSK-6	(Moon)
X06	11-8	0801	17523	Tue	MFA Moscow clg 542136: Russian embassy Beijing	MFSK-6	(Moon)
X06	11-8	0805	16257	Tue	MFA Moscow clg 542136: Russian embassy Beijing	MFSK-6	(Moon)
X06	14-8	0744	14863	Fri	MFA Moscow clg 615243: Russian Permanent Mission to the UN, Geneva	MFSK-6	(RO)
X06	14-8	0748	13575	Fri	MFA Moscow clg 615243: Russian Permanent Mission to the UN, Geneva	MFSK-6	(RO)
X06	14-8	0802	12213	Fri	MFA Moscow clg 615243: Russian Permanent Mission to the UN, Geneva	MFSK-6	(RO)
X06	14-8	0820	10653	Fri	MFA Moscow clg 356412: Russian embassy Berlin	MFSK-6	(AB/RO)
X06	18-8	0749	15989	Tue	MFA Moscow clg 125643: Russian embassy Ulaanbataar	MFSK-6	(AB)
X06	18-8	0751	15989	Tue	MFA Moscow clg 125643: Russian embassy Ulaanbaatar	MFSK-6	(Moon)
X06	18-8	0830	12149	Tue	MFA Moscow clg 154263: Russian embassy Rome	MFSK-6	(AB)
X06	18-8	0834	12149	Tue	MFA Moscow clg 154263: Russian embassy Rome	MFSK-6	(Anon)
X06	20-8	0932	18197	Thu	MFA Moscow clg 645321: Russian Consulate General Ho Chi Minh City	MFSK-6	(AB/RO)
X06	20-8	1517	16277	Thu	MFA Moscow clg 436512: Russian embassy Harare	MFSK-6	(AB/RO)
X06	23-8	0927	16060	Sun	MFA Moscow clg 261453: Russian embassy Cairo	MFSK-6	(AB)
X06	23-8	0943	15810	Sun	MFA Moscow clg 145632: Russian embassy Algiers	MFSK-6	(AB)
X06	25-8	0938	17523	Tue	MFA Moscow clg 542136: Russian embassy Beijing	MFSK-6	(AB)
X06	25-8	1142	11025	Tue	MFA Moscow clg 612534: Russian embassy Ashgabat	MFSK-6	(AB)
XPA1	5-8	1210	13491	Wed	416 416 416 1 01885 00379 17404 ... 97907 53140 74431	MFSK-17/10Bd	(AB)
XPA1	5-8	1230	12191	Wed	416 416 416 1 01885 00379 17404 ... 97907 53140 74431	MFSK-17/10Bd	(AB)
XPA1	5-8	1250	10691	Wed	416 416 416 1 01885 00379 17404 ... 97907 53140 74431	MFSK-17/10Bd	(AB)
XPA1	7-8	1210	13491	Fri	416 416 416 1 01885 00379 17404 ... 97907 53140 74431	MFSK-17/10Bd	(AB)
XPA1	7-8	1230	12191	Fri	416 416 416 1 01885 00379 17404 ... 97907 53140 74431	MFSK-17/10Bd	(AB)
XPA1	7-8	1250	10691	Fri	416 416 416 1 01885 00379 17404 ... 97907 53140 74431	MFSK-17/10Bd	(AB)
XPA1	11-8	0820	10250	Tue	186 186 186 1 06697 00042 45770 ... 22882 81773 34257	MFSK-17/10Bd	(PY)
XPA1	12-8	1210	13491	Wed	416 416 416 1 01885 00379 17404 ... 97907 53140 74431	MFSK-17/10Bd	(AB)
XPA1	12-8	1230	12191	Wed	416 416 416 1 01885 00379 17404 ... 97907 53140 74431	MFSK-17/10Bd	(AB)
XPA1	12-8	1250	10691	Wed	416 416 416 1 01885 00379 17404 ... 97907 53140 74431	MFSK-17/10Bd	(AB)
XPA1	14-8	1210	13491	Fri	416 416 416 1 01885 00379 17404 ... 97907 53140 74431	MFSK-17/10Bd	(AB)
XPA1	14-8	1230	12191	Fri	416 416 416 1 01885 00379 17404 ... 97907 53140 74431	MFSK-17/10Bd	(AB)
XPA1	14-8	1250	10691	Fri	416 416 416 1 01885 00379 17404 ... 97907 53140 74431	MFSK-17/10Bd	(AB)
XPA1	19-8	1210	13491	Wed	416 416 416 1 06073 00224 10681 ... 59973 23418 76537	MFSK-17/10Bd	(AB)
XPA1	19-8	1230	12191	Wed	416 416 416 1 06073 00224 10681 ... 59973 23418 76537	MFSK-17/10Bd	(AB)
XPA1	19-8	1250	10691	Wed	416 416 416 1 06073 00224 10681 ... 59973 23418 76537	MFSK-17/10Bd	(AB)
XPA1	21-8	1210	13491	Fri	416 416 416 1 06073 00224 10681 ... 59973 23418 76537	MFSK-17/10Bd	(AB)
XPA1	21-8	1230	12191	Fri	416 416 416 1 06073 00224 10681 ... 59973 23418 76537	MFSK-17/10Bd	(AB)
XPA1	21-8	1250	10691	Fri	416 416 416 1 06073 00224 10681 ... 59973 23418 76537	MFSK-17/10Bd	(AB)
XPA1	26-8	1210	13491	Wed	416 416 416 1 06073 00224 10681 ... 59973 23418 76537	MFSK-17/10Bd	(AB)
XPA1	26-8	1230	12191	Wed	416 416 416 1 06073 00224 10681 ... 59973 23418 76537	MFSK-17/10Bd	(AB)
XPA1	26-8	1250	10691	Wed	416 416 416 1 06073 00224 10681 ... 59973 23418 76537	MFSK-17/10Bd	(AB)
XPA1	28-8	1210	13491	Fri	416 416 416 1 06073 00224 10681 ... 59973 23418 76537	MFSK-17/10Bd	(AB)
XPA1	28-8	1230	12191	Fri	416 416 416 1 06073 00224 10681 ... 59973 23418 76537	MFSK-17/10Bd	(AB)

XPA1	28-8	1250	10691	Fri	416 416 416 1 06073 00224 10681 ... 59973 23418 76537	MFSK-17/10Bd	(AB)
XPA2	1-8	0900	18376	Sat	00344 00140 60357 ... 28304 49152 02023	MFSK-14/7.8125Bd	(AB)
XPA2	1-8	0920	17431	Sat	00344 00140 60357 ... 28304 49152 02023	MFSK-14/7.8125Bd	(AB)
XPA2	1-8	0940	16184	Sat	00344 00140 60357 ... 28304 49152 02023	MFSK-14/7.8125Bd	(AB)
XPA2	1-8	1500	18064	Sat	08882 00165 62512 ... 37172 46668 60052	MFSK-14/7.8125Bd	(AB/PY)
XPA2	1-8	1520	17419	Sat	08882 00165 62512 ... 37172 46668 60052	MFSK-14/7.8125Bd	(AB)
XPA2	1-8	1540	16038	Sat	08882 00165 62512 ... 37172 46668 60052	MFSK-14/7.8125Bd	(AB)
XPA2	3-8	0700	15843	Mon	04760 00001 00000 10140	MFSK-14/7.8125Bd	(AB/PY)
XPA2	3-8	0720	16218	Mon	04760 00001 00000 10140	MFSK-14/7.8125Bd	(AB/PY)
XPA2	3-8	0740	17424	Mon	04760 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	3-8	0910	19597	Mon	07316 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	3-8	0930	18173	Mon	07316 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	3-8	0950	17472	Mon	07316 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	5-8	0700	15843	Wed	01222 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	5-8	0720	16218	Wed	01222 00001 00000 10140	MFSK-14/7.8125Bd	(AB/PY)
XPA2	5-8	0740	17424	Wed	01222 00001 00000 10140	MFSK-14/7.8125Bd	(AB/PY)
XPA2	5-8	0910	19597	Wed	03550 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	5-8	0930	18173	Wed	03550 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	5-8	0950	17472	Wed	03550 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	5-8	1100	18048	Wed	02467 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	5-8	1120	16271	Wed	02467 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	5-8	1140	14494	Wed	02467 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	5-8	1800	15884	Wed	06549 00103 02261 ... 40425 08562 43762	MFSK-14/7.8125Bd	(AB)
XPA2	5-8	1820	14684	Wed	06549 00103 02261 ... 40425 08562 43762	MFSK-14/7.8125Bd	(AB)
XPA2	5-8	1840	13484	Wed	06549 00103 02261 ... 40425 08562 43762	MFSK-14/7.8125Bd	(AB)
XPA2	6-8	0900	18376	Thu	00634 00085 66926 ... 53478 98321 26623	MFSK-14/7.8125Bd	(AB)
XPA2	6-8	0920	17431	Thu	00634 00085 66926 ... 53478 98321 26623	MFSK-14/7.8125Bd	(AB)
XPA2	6-8	0940	16184	Thu	00634 00085 66926 ... 53478 98321 26623	MFSK-14/7.8125Bd	(AB)
XPA2	6-8	1100	18048	Thu	03598 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	6-8	1120	16271	Thu	03598 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	6-8	1140	14494	Thu	03598 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	6-8	1700	19164	Thu	09482 00001 00000 34271	MFSK-14/7.8125Bd	(AB)
XPA2	6-8	1720	18239	Thu	09482 00001 00000 34271	MFSK-14/7.8125Bd	(AB)
XPA2	6-8	1740	17451	Thu	09482 00001 00000 34271	MFSK-14/7.8125Bd	(AB)
XPA2	7-8	1100	13887	Fri	08509 00063 38444 ... 07845 90713 67500	MFSK-14/7.8125Bd	(AB)
XPA2	7-8	1120	12187	Fri	08509 00063 38444 ... 07845 90713 67500	MFSK-14/7.8125Bd	(AB)
XPA2	7-8	1140	10387	Fri	08509 00063 38444 ... 07845 90713 67500	MFSK-14/7.8125Bd	(AB)
XPA2	7-8	1800	15884	Fri	06549 00103 02261 ... 40425 08562 43762	MFSK-14/7.8125Bd	(AB)
XPA2	7-8	1820	14684	Fri	06549 00103 02261 ... 40425 08562 43762	MFSK-14/7.8125Bd	(AB)
XPA2	7-8	1840	13484	Fri	06549 00103 02261 ... 40425 08562 43762	MFSK-14/7.8125Bd	(AB)
XPA2	8-8	0900	18376	Sat	00634 00085 66926 ... 53478 98321 26623	MFSK-14/7.8125Bd	(AB)
XPA2	8-8	0920	17431	Sat	00634 00085 66926 ... 53478 98321 26623	MFSK-14/7.8125Bd	(AB)

XPA2	8-8	0940	16184	Sat	00634 00085 66926 ... 53478 98321 26623	MFSK-14/7.8125Bd	(AB)
XPA2	8-8	1500	18064	Sat	04117 00001 00000 35255	MFSK-14/7.8125Bd	(AB)
XPA2	8-8	1520	17419	Sat	04117 00001 00000 35255	MFSK-14/7.8125Bd	(AB)
XPA2	8-8	1540	16038	Sat	04117 00001 00000 35255	MFSK-14/7.8125Bd	(AB)
XPA2	10-8	0700	15843	Mon	00717 00341 19299 ... 88701 55218 57765	MFSK-14/7.8125Bd	(AB)
XPA2	10-8	0720	16218	Mon	00717 00341 19299 ... 88701 55218 57765	MFSK-14/7.8125Bd	(AB)
XPA2	10-8	0740	17424	Mon	00717 00341 19299 ... 88701 55218 57765	MFSK-14/7.8125Bd	(AB)
XPA2	10-8	0910	19597	Mon	02637 00119 14743 ... 46722 91355 52535	MFSK-14/7.8125Bd	(AB)
XPA2	10-8	0930	18173	Mon	02637 00119 14743 ... 46722 91355 52535	MFSK-14/7.8125Bd	(AB)
XPA2	10-8	0950	17472	Mon	02637 00119 14743 ... 46722 91355 52535	MFSK-14/7.8125Bd	(AB)
XPA2	10-8	1500	18064	Mon	09296 00147 71082 ... 70933 48500 64053	MFSK-14/7.8125Bd	(AB)
XPA2	10-8	1520	17419	Mon	09296 00147 71082 ... 70933 48500 64053	MFSK-14/7.8125Bd	(AB)
XPA2	10-8	1540	16038	Mon	09296 00147 71082 ... 70933 48500 64053	MFSK-14/7.8125Bd	(AB)
XPA2	11-8	0720	10250	Tue	01475 00050 92507 ... 59934 58750 50726	MFSK-14/7.8125Bd	(PY)
XPA2	11-8	0725	9702	Tue	01475 00050 92507 ... 59934 58750 50726	MFSK-14/7.8125Bd	(PY)
XPA2	11-8	1100	13887	Tue	07436 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	11-8	1120	12187	Tue	07436 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	11-8	1140	10387	Tue	07436 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	11-8	1145	10250	Tue	00161 00050 22491 ... 17336 12655 35632	MFSK-14/7.8125Bd	(PY)
XPA2	11-8	1150	9702	Tue	00161 00050 22491 ... 17336 12655 35632	MFSK-14/7.8125Bd	(PY)
XPA2	11-8	1225	10250	Tue	00132 00051 41795 ... 54725 33127 51471	MFSK-14/7.8125Bd	(PY)
XPA2	11-8	1240	9702	Tue	00132 00051 41795 ... 54725 33127 51471	MFSK-14/7.8125Bd	(PY)
XPA2	11-8	1700	19164	Tue	04675 00203 45732 ... 68361 07779 52465	MFSK-14/7.8125Bd	(AB)
XPA2	11-8	1720	18239	Tue	04675 00203 45732 ... 68361 07779 52465	MFSK-14/7.8125Bd	(AB)
XPA2	11-8	1740	17451	Tue	04675 00203 45732 ... 68361 07779 52465	MFSK-14/7.8125Bd	(AB)
XPA2	12-8	0700	15843	Wed	00717 00341 19299 ... 89702 55218 57765	MFSK-14/7.8125Bd	(AB)
XPA2	12-8	0720	16218	Wed	00717 00341 19299 ... 89702 55218 57765	MFSK-14/7.8125Bd	(AB)
XPA2	12-8	0740	17424	Wed	00717 00341 19299 ... 89702 55218 57765	MFSK-14/7.8125Bd	(AB)
XPA2	12-8	0910	19597	Wed	02637 00119 14743 ... 46722 91355 52535	MFSK-14/7.8125Bd	(AB)
XPA2	12-8	0930	18173	Wed	02637 00119 14743 ... 46722 91355 52535	MFSK-14/7.8125Bd	(AB)
XPA2	12-8	0950	17472	Wed	02637 00119 14743 ... 46722 91355 52535	MFSK-14/7.8125Bd	(AB)
XPA2	12-8	1100	18048	Wed	00200 00088 99052 ... 70974 71874 60525	MFSK-14/7.8125Bd	(AB)
XPA2	12-8	1120	16271	Wed	00200 00088 99052 ... 70974 71874 60525	MFSK-14/7.8125Bd	(AB)
XPA2	12-8	1140	14494	Wed	00200 00088 99052 ... 70974 71874 60525	MFSK-14/7.8125Bd	(AB)
XPA2	12-8	1800	15884	Wed	09242 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	12-8	1820	14684	Wed	09242 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	12-8	1840	13484	Wed	09242 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	13-8	0900	18376	Thu	06493 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	13-8	0920	17431	Thu	06493 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	13-8	0940	16184	Thu	06493 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	13-8	1100	18048	Thu	00200 00088 99052 ... 70974 71874 60525	MFSK-14/7.8125Bd	(AB)
XPA2	13-8	1120	16271	Thu	00200 00088 99052 ... 70974 71874 60525	MFSK-14/7.8125Bd	(AB)

XPA2	13-8	1140	14494	Thu	00200 00088 99052 ... 70974 71874 60525	MFSK-14/7.8125Bd	(AB)
XPA2	13-8	1700	19164	Thu	04675 00203 45732 ... 68361 07779 52465	MFSK-14/7.8125Bd	(AB)
XPA2	13-8	1720	18239	Thu	04675 00203 45732 ... 68361 07779 52465	MFSK-14/7.8125Bd	(AB)
XPA2	13-8	1740	17451	Thu	04675 00203 45732 ... 68361 07779 52465	MFSK-14/7.8125Bd	(AB)
XPA2	14-8	1100	13887	Fri	07505 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	14-8	1120	12187	Fri	07505 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	14-8	1140	10387	Fri	07505 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	14-8	1800	15884	Fri	04572 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	14-8	1820	14684	Fri	04572 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	14-8	1840	13484	Fri	04572 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	15-8	0900	18376	Sat	06461 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	15-8	0920	17431	Sat	06461 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	15-8	0940	16184	Sat	06461 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	15-8	1500	18064	Sat	09296 00147 71082 ... 70933 48500 64053	MFSK-14/7.8125Bd	(AB)
XPA2	15-8	1520	17419	Sat	09296 00147 71082 ... 70933 48500 64053	MFSK-14/7.8125Bd	(AB)
XPA2	15-8	1540	16038	Sat	09296 00147 71082 ... 70933 48500 64053	MFSK-14/7.8125Bd	(AB)
XPA2	17-8	0700	15843	Mon	00717 00341 19299 ... 88701 55218 57765	MFSK-14/7.8125Bd	(AB)
XPA2	17-8	0720	16218	Mon	00717 00341 19299 ... 88701 55218 57765	MFSK-14/7.8125Bd	(AB)
XPA2	17-8	0740	17424	Mon	00717 00341 19299 ... 88701 55218 57765	MFSK-14/7.8125Bd	(AB)
XPA2	17-8	0910	19597	Mon	06491 00171 35416 ... 71692 79148 75417	MFSK-14/7.8125Bd	(AB)
XPA2	17-8	0930	18173	Mon	06491 00171 35416 ... 71692 79148 75417	MFSK-14/7.8125Bd	(AB)
XPA2	17-8	0950	17472	Mon	06491 00171 35416 ... 71692 79148 75417	MFSK-14/7.8125Bd	(AB)
XPA2	17-8	1500	18064	Mon	05811 00001 00000 35656	MFSK-14/7.8125Bd	(AB)
XPA2	17-8	1520	17419	Mon	05811 00001 00000 35656	MFSK-14/7.8125Bd	(AB)
XPA2	17-8	1540	16038	Mon	05811 00001 00000 35656	MFSK-14/7.8125Bd	(AB)
XPA2	18-8	1100	13887	Tue	02959 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	18-8	1120	12187	Tue	02959 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	18-8	1140	10387	Tue	02959 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	18-8	1700	19164	Tue	01662 00001 00000 35257	MFSK-14/7.8125Bd	(AB)
XPA2	18-8	1720	18239	Tue	01662 00001 00000 35257	MFSK-14/7.8125Bd	(AB)
XPA2	18-8	1740	17451	Tue	01662 00001 00000 35257	MFSK-14/7.8125Bd	(AB)
XPA2	19-8	0700	15843	Wed	00717 00341 19299 ... 89702 55218 57765	MFSK-14/7.8125Bd	(AB)
XPA2	19-8	0720	16218	Wed	00717 00341 19299 ... 89702 55218 57765	MFSK-14/7.8125Bd	(AB)
XPA2	19-8	0740	17424	Wed	00717 00341 19299 ... 89702 55218 57765	MFSK-14/7.8125Bd	(AB)
XPA2	19-8	0910	19597	Wed	06491 00171 35416 ... 71692 79148 75417	MFSK-14/7.8125Bd	(AB)
XPA2	19-8	0930	18173	Wed	06491 00171 35416 ... 71692 79148 75417	MFSK-14/7.8125Bd	(AB)
XPA2	19-8	0950	17472	Wed	06491 00171 35416 ... 71692 79148 75417	MFSK-14/7.8125Bd	(AB)
XPA2	19-8	1100	18048	Wed	00926 00150 49526 ... 71779 45365 05363	MFSK-14/7.8125Bd	(AB)
XPA2	19-8	1120	16271	Wed	00926 00150 49526 ... 71779 45365 05363	MFSK-14/7.8125Bd	(AB)
XPA2	19-8	1140	14494	Wed	00926 00150 49526 ... 71779 45365 05363	MFSK-14/7.8125Bd	(AB)
XPA2	19-8	1800	15884	Wed	06414 00239 20856 ... 76081 64015 04311	MFSK-14/7.8125Bd	(AB)
XPA2	19-8	1820	14684	Wed	06414 00239 20856 ... 76081 64015 04311	MFSK-14/7.8125Bd	(AB)

XPA2	19-8	1840	13484	Wed	06414 00239 20856 ... 76081 64015 04311	MFSK-14/7.8125Bd	(AB)
XPA2	20-8	0900	18376	Thu	01222 00001 00000 00140	MFSK-14/7.8125Bd	(AB)
XPA2	20-8	0920	17431	Thu	01222 00001 00000 00140	MFSK-14/7.8125Bd	(AB)
XPA2	20-8	0940	16184	Thu	01222 00001 00000 00140	MFSK-14/7.8125Bd	(AB)
XPA2	20-8	1100	18048	Thu	00926 00150 49526 ... 71779 45365 05363	MFSK-14/7.8125Bd	(AB)
XPA2	20-8	1120	16271	Thu	00926 00150 49526 ... 71779 45365 05363	MFSK-14/7.8125Bd	(AB)
XPA2	20-8	1140	14494	Thu	00926 00150 49526 ... 71779 45365 05363	MFSK-14/7.8125Bd	(AB)
XPA2	20-8	1700	19164	Thu	08330 00001 00000 00140	MFSK-14/7.8125Bd	(AB)
XPA2	20-8	1720	18239	Thu	08330 00001 00000 00140	MFSK-14/7.8125Bd	(AB)
XPA2	20-8	1740	17451	Thu	08330 00001 00000 00140	MFSK-14/7.8125Bd	(AB)
XPA2	21-8	1100	13887	Fri	09005 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	21-8	1120	12187	Fri	09005 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	21-8	1140	10387	Fri	09005 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	21-8	1800	15884	Fri	06414 00239 20856 ... 76081 64015 04311	MFSK-14/7.8125Bd	(AB)
XPA2	21-8	1820	14684	Fri	06414 00239 20856 ... 76081 64015 04311	MFSK-14/7.8125Bd	(AB)
XPA2	21-8	1840	13484	Fri	06414 00239 20856 ... 76081 64015 04311	MFSK-14/7.8125Bd	(AB)
XPA2	22-8	0900	18376	Sat	04262 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	22-8	0920	17431	Sat	04262 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	22-8	0940	16184	Sat	04262 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	22-8	1500	18064	Sat	09138 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	22-8	1520	17419	Sat	09138 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	22-8	1540	16038	Sat	09138 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	24-8	0700	15843	Mon	00922 00212 83723 ... 69315 44537 50374	MFSK-14/7.8125Bd	(AB)
XPA2	24-8	0720	16218	Mon	00922 00212 83723 ... 69315 44537 50374	MFSK-14/7.8125Bd	(AB)
XPA2	24-8	0740	17424	Mon	00922 00212 83723 ... 69315 44537 50374	MFSK-14/7.8125Bd	(AB)
XPA2	24-8	0910	19597	Mon	08711 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	24-8	0930	18173	Mon	08711 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	24-8	0950	17472	Mon	08711 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	24-8	1500	18064	Mon	05914 00220 28915 ... 86164 84164 26470	MFSK-14/7.8125Bd	(AB)
XPA2	24-8	1520	17419	Mon	05914 00220 28915 ... 86164 84164 26470	MFSK-14/7.8125Bd	(AB)
XPA2	24-8	1540	16038	Mon	05914 00220 28915 ... 86164 84164 26470	MFSK-14/7.8125Bd	(AB)
XPA2	25-8	1100	13887	Tue	09123 00131 92624 ... 72345 98894 71623	MFSK-14/7.8125Bd	(AB)
XPA2	25-8	1120	12187	Tue	09123 00131 92624 ... 72345 98894 71623	MFSK-14/7.8125Bd	(AB)
XPA2	25-8	1140	10387	Tue	09123 00131 92624 ... 72345 98894 71623	MFSK-14/7.8125Bd	(AB)
XPA2	25-8	1700	19164	Tue	08455 00212 63442 ... 46671 58453 72661	MFSK-14/7.8125Bd	(AB-IRL)
XPA2	25-8	1720	18239	Tue	08455 00212 63442 ... 46671 58453 72661	MFSK-14/7.8125Bd	(AB)
XPA2	25-8	1740	17451	Tue	08455 00212 63442 ... 46671 58453 72661	MFSK-14/7.8125Bd	(AB)
XPA2	26-8	0700	15843	Wed	00922 00212 83723 ... 69315 44537 50374	MFSK-14/7.8125Bd	(AB)
XPA2	26-8	0720	16218	Wed	00922 00212 83723 ... 69315 44537 50374	MFSK-14/7.8125Bd	(AB)
XPA2	26-8	0740	17424	Wed	00922 00212 83723 ... 69315 44537 50374	MFSK-14/7.8125Bd	(AB)
XPA2	26-8	0910	19597	Wed	03369 00000 00000 00040	MFSK-14/7.8125Bd	(AB)
XPA2	26-8	0930	18173	Wed	03369 00000 00000 00040	MFSK-14/7.8125Bd	(AB)

XPA2	26-8	0950	17472	Wed	03369 00000 00000 00040	MFSK-14/7.8125Bd	(AB)
XPA2	26-8	1100	18048	Wed	02038 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	26-8	1120	16271	Wed	02038 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	26-8	1140	14494	Wed	02038 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	26-8	1800	15884	Wed	08226 00083 26891 ... 51665 50509 51612	MFSK-14/7.8125Bd	(AB)
XPA2	26-8	1820	14684	Wed	08226 00083 26891 ... 51665 50509 51612	MFSK-14/7.8125Bd	(AB)
XPA2	26-8	1840	13484	Wed	08226 00083 26891 ... 51665 50509 51612	MFSK-14/7.8125Bd	(AB)
XPA2	27-8	0900	18376	Thu	07136 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	27-8	0920	17431	Thu	07136 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	27-8	0940	16184	Thu	07136 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	27-8	1100	18048	Thu	09465 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	27-8	1120	16271	Thu	09465 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	27-8	1140	14494	Thu	09465 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	27-8	1700	19164	Thu	08455 00212 63442 ... 46671 58453 72661	MFSK-14/7.8125Bd	(AB-IRL)
XPA2	27-8	1720	18239	Thu	08455 00212 63442 ... 46671 58453 72661	MFSK-14/7.8125Bd	(AB)
XPA2	27-8	1740	17451	Thu	08455 00212 63442 ... 46671 58453 72661	MFSK-14/7.8125Bd	(AB)
XPA2	28-8	1100	13887	Fri	09123 00131 92624 ... 72345 98894 71623	MFSK-14/7.8125Bd	(AB)
XPA2	28-8	1120	12187	Fri	09123 00131 92624 ... 72345 98894 71623	MFSK-14/7.8125Bd	(AB)
XPA2	28-8	1140	10387	Fri	09123 00131 92624 ... 72345 98894 71623	MFSK-14/7.8125Bd	(AB)
XPA2	28-8	1800	15884	Fri	08226 00083 26891 ... 51665 50509 51612	MFSK-14/7.8125Bd	(AB)
XPA2	28-8	1820	14684	Fri	08226 00083 26891 ... 51665 50509 51612	MFSK-14/7.8125Bd	(AB)
XPA2	28-8	1840	13484	Fri	08226 00083 26891 ... 51665 50509 51612	MFSK-14/7.8125Bd	(AB)
XPA2	29-8	0900	18376	Sat	09431 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	29-8	0920	17431	Sat	09431 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	29-8	0940	16184	Sat	09431 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	29-8	1500	18064	Sat	05914 00220 28915 ... 86164 84164 26470	MFSK-14/7.8125Bd	(AB)
XPA2	29-8	1520	17419	Sat	05914 00220 28915 ... 86164 84164 26470	MFSK-14/7.8125Bd	(AB)
XPA2	29-8	1540	16038	Sat	05914 00220 28915 ... 86164 84164 26470	MFSK-14/7.8125Bd	(AB)
XPA2	31-8	0700	15843	Mon	00922 00212 83723 ... 69315 44537 50374	MFSK-14/7.8125Bd	(AB)
XPA2	31-8	0720	16218	Mon	00922 00212 83723 ... 69315 44537 50374	MFSK-14/7.8125Bd	(AB)
XPA2	31-8	0740	17424	Mon	00922 00212 83723 ... 69315 44537 50374	MFSK-14/7.8125Bd	(AB)
XPA2	31-8	0910	19597	Mon	07933 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	31-8	0930	18173	Mon	07933 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	31-8	0950	17472	Mon	07933 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	31-8	1500	18064	Mon	01520 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	31-8	1520	17419	Mon	01520 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPA2	31-8	1540	16038	Mon	01520 00001 00000 10140	MFSK-14/7.8125Bd	(AB)
XPB1	14-7	0800	8154	Mon	Russian intel. 2m15s TXs	MFSK-16	(PY)
XPB1	14-7	0810	9341	Mon	Russian intel. 2m15s TXs	MFSK-16	(PY)
XPB1	14-7	0820	10429	Mon	Russian intel. 2m15s TXs	MFSK-16	(PY)
XPB1	14-7	0900	8154	Mon	Russian intel. 2m15s TXs	MFSK-16	(PY)
XPB1	14-7	0910	9341	Mon	Russian intel. 2m15s TXs	MFSK-16	(PY)

XPB1	14-7	0920	10429	Mon	Russian intel. 2m15s TXs	MFSK-16	(PY)
XPB1	16-7	1200	8154	Thu	Russian intel. 2m15s TXs	MFSK-16	(PY)
XPB1	16-7	1210	9341	Thu	Russian intel. 2m15s TXs	MFSK-16	(PY)
XPB1	16-7	1220	10429	Thu	Russian intel. 2m15s TXs	MFSK-16	(PY)
XPB1	16-7	1300	8154	Thu	Russian intel. 2m15s TXs	MFSK-16	(PY)
XPB1	16-7	1310	9341	Thu	Russian intel. 2m15s TXs	MFSK-16	(PY)
XPB1	16-7	1320	10429	Thu	Russian intel. 2m15s TXs	MFSK-16	(PY)
XPB1	3-8	0500	18451	Mon	Russian intel.	MFSK-16	(Anon)
XPB1	3-8	0510	18051	Mon	Russian intel.	MFSK-16	(Anon)
XPB1	3-8	0520	17451	Mon	Russian intel.	MFSK-16	(Anon)
XPB1	3-8	0530	16251	Mon	Russian intel.	MFSK-16	(Anon)
XPB1	3-8	0540	15851	Mon	Russian intel.	MFSK-16	(Anon)
XPB1	3-8	0550	14451	Mon	Russian intel.	MFSK-16	(Anon)
XPB1	4-8	0500	18451	Tue	Russian intel.	MFSK-16	(Anon)
XPB1	4-8	0510	18051	Tue	Russian intel.	MFSK-16	(Anon)
XPB1	4-8	0520	17451	Tue	Russian intel.	MFSK-16	(Anon)
XPB1	4-8	0530	16251	Tue	Russian intel.	MFSK-16	(Anon)
XPB1	4-8	0540	15851	Tue	Russian intel.	MFSK-16	(Anon)
XPB1	4-8	0550	14451	Tue	Russian intel.	MFSK-16	(Anon)
XPB1	4-8	1300	20064	Tue	Russian intel.	MFSK-16	(AB)
XPB1	4-8	1300	20064	Tue	Russian intel.	MFSK-16	(AB)
XPB1	4-8	1310	19364	Tue	Russian intel.	MFSK-16	(AB)
XPB1	4-8	1310	19364	Tue	Russian intel.	MFSK-16	(AB)
XPB1	4-8	1320	18464	Tue	Russian intel.	MFSK-16	(AB)
XPB1	4-8	1320	18464	Tue	Russian intel.	MFSK-16	(AB)
XPB1	4-8	1330	17464	Tue	Russian intel.	MFSK-16	(AB)
XPB1	4-8	1330	17464	Tue	Russian intel.	MFSK-16	(AB)
XPB1	4-8	1340	16264	Tue	Russian intel.	MFSK-16	(AB)
XPB1	4-8	1340	16264	Tue	Russian intel.	MFSK-16	(AB)
XPB1	4-8	1350	15864	Tue	Russian intel.	MFSK-16	(AB)
XPB1	4-8	1350	15864	Tue	Russian intel.	MFSK-16	(AB)
XPB1	6-8	0500	18451	Thu	Russian intel.	MFSK-16	(AB)
XPB1	6-8	0510	18051	Thu	Russian intel.	MFSK-16	(AB)
XPB1	6-8	0520	17451	Thu	Russian intel.	MFSK-16	(AB)
XPB1	6-8	0530	16251	Thu	Russian intel.	MFSK-16	(AB)
XPB1	6-8	0540	15851	Thu	Russian intel.	MFSK-16	(AB)
XPB1	6-8	0550	14451	Thu	Russian intel.	MFSK-16	(AB)
XPB1	7-8	0500	18451	Fri	Russian intel.	MFSK-16	(AB)
XPB1	7-8	0510	18051	Fri	Russian intel.	MFSK-16	(AB)
XPB1	7-8	0520	17451	Fri	Russian intel.	MFSK-16	(AB)
XPB1	7-8	0530	16251	Fri	Russian intel.	MFSK-16	(AB)
XPB1	7-8	0540	15851	Fri	Russian intel.	MFSK-16	(AB)

XPB1	7-8	0550	14451	Fri	Russian intel.	MFSK-16	(AB)
XPB1	7-8	1300	20064	Fri	Russian intel.	MFSK-16	(AB)
XPB1	7-8	1310	19364	Fri	Russian intel.	MFSK-16	(AB)
XPB1	7-8	1320	18464	Fri	Russian intel.	MFSK-16	(AB)
XPB1	7-8	1330	17464	Fri	Russian intel.	MFSK-16	(AB)
XPB1	7-8	1340	16264	Fri	Russian intel.	MFSK-16	(AB)
XPB1	7-8	1350	15864	Fri	Russian intel.	MFSK-16	(AB)
XPB1	10-8	0500	18451	Mon	Russian intel.	MFSK-16	(AB)
XPB1	10-8	0510	18051	Mon	Russian intel.	MFSK-16	(AB)
XPB1	10-8	0520	17451	Mon	Russian intel.	MFSK-16	(AB)
XPB1	10-8	0530	16251	Mon	Russian intel.	MFSK-16	(AB)
XPB1	10-8	0540	15851	Mon	Russian intel.	MFSK-16	(AB)
XPB1	10-8	0550	14451	Mon	Russian intel.	MFSK-16	(AB)
XPB1	10-8	1255	10250	Mon	Russian intel. 1m30s OXs	MFSK-16	(PY)
XPB1	10-8	1300	9702	Mon	Russian intel. 1m30s OXs	MFSK-16	(PY)
XPB1	10-8	1305	9445	Mon	Russian intel. 1m30s OXs	MFSK-16	(PY)
XPB1	11-8	0500	18451	Tue	Russian intel.	MFSK-16	(AB)
XPB1	11-8	0510	18051	Tue	Russian intel.	MFSK-16	(AB)
XPB1	11-8	0520	17451	Tue	Russian intel.	MFSK-16	(AB)
XPB1	11-8	0530	16251	Tue	Russian intel.	MFSK-16	(AB)
XPB1	11-8	0540	15851	Tue	Russian intel.	MFSK-16	(AB)
XPB1	11-8	0550	14451	Tue	Russian intel.	MFSK-16	(AB)
XPB1	11-8	1100	10250	Tue	Russian intel. 1m30s OXs	MFSK-16	(PY)
XPB1	11-8	1105	9702	Tue	Russian intel. 1m30s OXs	MFSK-16	(PY)
XPB1	11-8	1110	9445	Tue	Russian intel. 1m30s OXs	MFSK-16	(PY)
XPB1	11-8	1115	10250	Tue	Russian intel. 2m OXs	MFSK-16/32bd	(PY)
XPB1	11-8	1120	9702	Tue	Russian intel. 2m OXs	MFSK-16/32bd	(PY)
XPB1	11-8	1125	9445	Tue	Russian intel. 2m OXs	MFSK-16/32bd	(PY)
XPB1	11-8	1300	20064	Tue	Russian intel.	MFSK-16	(AB)
XPB1	11-8	1310	19364	Tue	Russian intel.	MFSK-16	(AB)
XPB1	11-8	1320	18464	Tue	Russian intel.	MFSK-16	(AB)
XPB1	11-8	1330	17464	Tue	Russian intel.	MFSK-16	(AB)
XPB1	11-8	1340	16264	Tue	Russian intel.	MFSK-16	(AB)
XPB1	11-8	1350	15864	Tue	Russian intel.	MFSK-16	(AB)
XPB1	13-8	0500	18451	Thu	Russian intel.	MFSK-16	(AB)
XPB1	13-8	0510	18051	Thu	Russian intel.	MFSK-16	(AB)
XPB1	13-8	0520	17451	Thu	Russian intel.	MFSK-16	(AB)
XPB1	13-8	0530	16251	Thu	Russian intel.	MFSK-16	(AB)
XPB1	13-8	0540	15851	Thu	Russian intel.	MFSK-16	(AB)
XPB1	13-8	0550	14451	Thu	Russian intel.	MFSK-16	(AB)
XPB1	14-8	0500	18451	Fri	Russian intel.	MFSK-16	(AB)
XPB1	14-8	0510	18051	Fri	Russian intel.	MFSK-16	(AB)

XPB1	14-8	0520	17451	Fri	Russian intel.	MFSK-16	(AB)
XPB1	14-8	0530	16251	Fri	Russian intel.	MFSK-16	(AB)
XPB1	14-8	0540	15851	Fri	Russian intel.	MFSK-16	(AB)
XPB1	14-8	0550	14451	Fri	Russian intel.	MFSK-16	(AB)
XPB1	14-8	1300	20064	Fri	Russian intel.	MFSK-16	(AB)
XPB1	14-8	1310	19364	Fri	Russian intel.	MFSK-16	(AB)
XPB1	14-8	1320	18464	Fri	Russian intel.	MFSK-16	(AB)
XPB1	14-8	1330	17464	Fri	Russian intel.	MFSK-16	(AB)
XPB1	14-8	1340	16264	Fri	Russian intel.	MFSK-16	(AB)
XPB1	14-8	1350	15864	Fri	Russian intel.	MFSK-16	(AB)
XPB1	17-8	0500	18451	Mon	Russian intel.	MFSK-16	(AB)
XPB1	17-8	0510	18051	Mon	Russian intel.	MFSK-16	(AB)
XPB1	17-8	0520	17451	Mon	Russian intel.	MFSK-16	(AB)
XPB1	17-8	0530	16251	Mon	Russian intel.	MFSK-16	(AB)
XPB1	17-8	0540	15851	Mon	Russian intel.	MFSK-16	(AB)
XPB1	17-8	0550	14451	Mon	Russian intel.	MFSK-16	(AB)
XPB1	18-8	0500	18451	Tue	Russian intel.	MFSK-16	(AB)
XPB1	18-8	0510	18051	Tue	Russian intel.	MFSK-16	(AB)
XPB1	18-8	0520	17451	Tue	Russian intel.	MFSK-16	(AB)
XPB1	18-8	0530	16251	Tue	Russian intel.	MFSK-16	(AB)
XPB1	18-8	0540	15851	Tue	Russian intel.	MFSK-16	(AB)
XPB1	18-8	0550	14451	Tue	Russian intel.	MFSK-16	(AB)
XPB1	18-8	1300	20064	Tue	Russian intel.	MFSK-16	(AB)
XPB1	18-8	1310	19364	Tue	Russian intel.	MFSK-16	(AB)
XPB1	18-8	1320	18464	Tue	Russian intel.	MFSK-16	(AB)
XPB1	18-8	1330	17464	Tue	Russian intel.	MFSK-16	(AB)
XPB1	18-8	1340	16264	Tue	Russian intel.	MFSK-16	(AB)
XPB1	18-8	1350	15864	Tue	Russian intel.	MFSK-16	(AB)
XPB1	20-8	0500	18451	Thu	Russian intel.	MFSK-16	(AB)
XPB1	20-8	0510	18051	Thu	Russian intel.	MFSK-16	(AB)
XPB1	20-8	0520	17451	Thu	Russian intel.	MFSK-16	(AB)
XPB1	20-8	0530	16251	Thu	Russian intel.	MFSK-16	(AB)
XPB1	20-8	0540	15851	Thu	Russian intel.	MFSK-16	(AB)
XPB1	20-8	0550	14451	Thu	Russian intel.	MFSK-16	(AB)
XPB1	21-8	0500	18451	Fri	Russian intel.	MFSK-16	(AB)
XPB1	21-8	0510	18051	Fri	Russian intel.	MFSK-16	(AB)
XPB1	21-8	0520	17451	Fri	Russian intel.	MFSK-16	(AB)
XPB1	21-8	0530	16251	Fri	Russian intel.	MFSK-16	(AB)
XPB1	21-8	0540	15851	Fri	Russian intel.	MFSK-16	(AB)
XPB1	21-8	0550	14451	Fri	Russian intel.	MFSK-16	(AB)
XPB1	21-8	1300	20064	Fri	Russian intel.	MFSK-16	(AB)
XPB1	21-8	1310	19364	Fri	Russian intel.	MFSK-16	(AB)

XPB1	21-8	1320	18464	Fri	Russian intel.	MFSK-16	(AB)
XPB1	21-8	1330	17464	Fri	Russian intel.	MFSK-16	(AB)
XPB1	21-8	1340	16264	Fri	Russian intel.	MFSK-16	(AB)
XPB1	21-8	1350	15864	Fri	Russian intel.	MFSK-16	(AB)
XPB1	24-8	0500	18451	Mon	Russian intel.	MFSK-16	(AB)
XPB1	24-8	0510	18051	Mon	Russian intel.	MFSK-16	(AB)
XPB1	24-8	0520	17451	Mon	Russian intel.	MFSK-16	(AB)
XPB1	24-8	0530	16251	Mon	Russian intel.	MFSK-16	(AB)
XPB1	24-8	0540	15851	Mon	Russian intel.	MFSK-16	(AB)
XPB1	24-8	0550	14451	Mon	Russian intel.	MFSK-16	(AB)
XPB1	25-8	0500	18451	Tue	Russian intel.	MFSK-16	(AB)
XPB1	25-8	0510	18051	Tue	Russian intel.	MFSK-16	(AB)
XPB1	25-8	0520	17451	Tue	Russian intel.	MFSK-16	(AB)
XPB1	25-8	0530	16251	Tue	Russian intel.	MFSK-16	(AB)
XPB1	25-8	0540	15851	Tue	Russian intel.	MFSK-16	(AB)
XPB1	25-8	0550	14451	Tue	Russian intel.	MFSK-16	(AB)
XPB1	25-8	1300	20064	Tue	Russian intel.	MFSK-16	(AB)
XPB1	25-8	1310	19364	Tue	Russian intel.	MFSK-16	(AB)
XPB1	25-8	1320	18464	Tue	Russian intel.	MFSK-16	(AB)
XPB1	25-8	1330	17464	Tue	Russian intel.	MFSK-16	(AB)
XPB1	25-8	1340	16264	Tue	Russian intel.	MFSK-16	(AB)
XPB1	25-8	1350	15864	Tue	Russian intel.	MFSK-16	(AB)
XPB1	27-8	0500	18451	Thu	Russian intel.	MFSK-16	(AB)
XPB1	27-8	0510	18051	Thu	Russian intel.	MFSK-16	(AB)
XPB1	27-8	0520	17451	Thu	Russian intel.	MFSK-16	(AB)
XPB1	27-8	0530	16251	Thu	Russian intel.	MFSK-16	(AB)
XPB1	27-8	0540	15851	Thu	Russian intel.	MFSK-16	(AB)
XPB1	27-8	0550	14451	Thu	Russian intel.	MFSK-16	(AB)
XPB1	28-8	0500	18451	Fri	Russian intel.	MFSK-16	(AB)
XPB1	28-8	0510	18051	Fri	Russian intel.	MFSK-16	(AB)
XPB1	28-8	0520	17451	Fri	Russian intel.	MFSK-16	(AB)
XPB1	28-8	0530	16251	Fri	Russian intel.	MFSK-16	(AB)
XPB1	28-8	0540	15851	Fri	Russian intel.	MFSK-16	(AB)
XPB1	28-8	0550	14451	Fri	Russian intel.	MFSK-16	(AB)
XPB1	28-8	1300	20064	Fri	Russian intel.	MFSK-16	(AB)
XPB1	28-8	1310	19364	Fri	Russian intel.	MFSK-16	(AB)
XPB1	28-8	1320	18464	Fri	Russian intel.	MFSK-16	(AB)
XPB1	28-8	1330	17464	Fri	Russian intel.	MFSK-16	(AB)
XPB1	28-8	1340	16264	Fri	Russian intel.	MFSK-16	(AB)
XPB1	28-8	1350	15864	Fri	Russian intel.	MFSK-16	(AB)
XPB1	31-8	0500	18451	Mon	Russian intel.	MFSK-16	(AB)
XPB1	31-8	0510	18051	Mon	Russian intel.	MFSK-16	(AB)

XPB1	31-8	0520	17451	Mon	Russian intel.	MFSK-16	(AB)
XPB1	31-8	0530	16251	Mon	Russian intel.	MFSK-16	(AB)
XPB1	31-8	0540	15851	Mon	Russian intel.	MFSK-16	(AB)
XPB1	31-8	0550	14451	Mon	Russian intel.	MFSK-16	(AB)
XSL	14-8	0516	4153	Fri	Japanese Navy. Telemetry (a.k.a.Japanese Slotmachine)	QPSK 1500Bd	(AB-J)
XSL	14-8	0516	4231.5	Fri	Japanese Navy. Telemetry (a.k.a.Japanese Slotmachine)	QPSK 1500Bd	(AB-J)
XSL	14-8	0516	6250	Fri	Japanese Navy. Telemetry (a.k.a.Japanese Slotmachine)	QPSK 1500Bd	(AB-J)
XSL	14-8	0516	6417	Fri	Japanese Navy. Telemetry (a.k.a.Japanese Slotmachine)	QPSK 1500Bd	(AB-J)
XSL	14-8	0516	6445	Fri	Japanese Navy. Telemetry (a.k.a.Japanese Slotmachine)	QPSK 1500Bd	(AB-J)
XSL	14-8	0516	8313	Fri	Japanese Navy. Telemetry (a.k.a.Japanese Slotmachine)	QPSK 1500Bd	(AB-J)
XSL	14-8	0516	8588	Fri	Japanese Navy. Telemetry (a.k.a.Japanese Slotmachine)	QPSK 1500Bd	(AB-J)
XSL	14-8	0516	8703.5	Fri	Japanese Navy. Telemetry (a.k.a.Japanese Slotmachine)	QPSK 1500Bd	(AB-J)

LIST OF ACTIVE STATIONS

Prefixes

E	English language	Q	4+4 QPSK mode
F	FSK (Frequency Shift Keying) modes	S	Slavic languages
G	German language	SK	Various modes used by Cuba, incl. (B)PSK, WinDRM
HM	Hybrid modes	UM(C)	Unid Morse station (Chinese)
M(C)	Morse code (Chinese)	V	Voice broadcasts in other languages
P	PSK modes. QPSK (Quadrature Phase Shift Keying) and BPSK (Binary Phase-Shift keying) modes	VC	Voice Chinese
		X	MFSK modes

Notes :

There is no solid proof that the mentioned operators are correct.

Russian G06, V06 and other variants are not in the list but are occasionally used for exercises

Code	Description	Country	Counterpart	Operator
E06	3-fig id, OM/EE 00000	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
E06a	3-fig id, 2 group commencing with 11111	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
E06b	3-fig id with 5FG group in call, 2 msgs	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
E07	3-fig id, OM/EE 000 000	RUS	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1, X--	Russian intelligence
E07a	Null msg format. Nnn nnn nnn 000 repeated 20 mins later	RUS	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1, X--	Russian intelligence
E11	nnn Oblique 00 Out	POL	E11, E11a, S11a, F03, P03	Agencja Wywiadu
E11a	E11 with message	POL	E11, E11a, S11a, F03, P03	Agencja Wywiadu
E25	Arabic music, 3FGs call, 4FGs, 9450 kHz	EGY	E25, E25a, E25b	GID
E25a	E25 but 3FG 3FG 2FG 2FG 2FG call	EGY	E25, E25a, E25b	GID
E25b	Arab message; callup in English	EGY	E25, E25a, E25b	GID
F01	FSK/ITA2 200Bd/500Hz	RUS	E06, S06, M14, F01, F06, F06a	Russian Diplo/Intel.
F02	MFSK-4 150Bd/4000Hz (12kHz BW)	RUS		Unid Russian net.
F03i	FSK-2 100Bd/800Hz/cf +1200Hz/488-bit period	POL	E11, E11a, S11a, F03, P03	Agencja Wywiadu
F03j	FSK-4 100Bd/400Hz/cf +1200Hz/448-bit period	POL	E11, E11a, S11a, F03, P03	Agencja Wywiadu
F03l	FSK-2 100Bd/200Hz/cf +700Hz/448-bit period	POL	E11, E11a, S11a, F03, P03	Agencja Wywiadu
F06	FSK 200Bd/1000Hz ACF=288 sending compressed digits	RUS	E06, S06, M14, F01, F06, F06a	Russian Diplo/Intel.
F06a	FSK 200Bd/1000Hz ACF=288 sending uncompressed ASCII files	RUS	E06, S06, M14, F01, F06, F06a	Russian Diplo/Intel.
F07	5x16-tone MFSK, 10Bd, 20Hz + BPSK, 250Bd bursts	RUS	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1, X--	Russian intelligence
HM01	Consists of alternating WinDRM data & V02a repeating sequences.	CUB		DGI
M01	2 tone hand-keyed, ends '000'	RUS		Russian Navy
M01a	End of the month transmission	RUS		Russian Navy
M12	5FG, 3 or 4FG DK. Ends with 000 000	RUS	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1, X--	Russian intelligence
M12a	3FG DK. 2 Messages. Ends with 000 000	RUS	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1, X--	Russian intelligence
M14	Ends 00000 or 5 long dashes	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
M14a	Dual msg variant	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
M14b	Rare, added 2nd msg hand keyed	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
M14c	Rare, dual msg, consecutive id's	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
M14d	3FG id with 5FG group in call	RUS	E06, S06, M14, F01, F06, F06a	
M21	14 fig msgs. Markers and tracking data	RUS	M21, M41	Russian Air Defense
M22	4XZ	ISR		Israeli Navy
M23	Letters and/or figures strings in various formats	F		
M41	M21 variant using callsigns and WZD and ABV	RUS	M21, M41	Russian Air Defense
M42	Various modes	RUS		Russian Gov/Intel.
M42b	FSK 50/500 (=50= separator)	RUS		Russian Gov/Intel.
M51a	FAV22 transmissions	F		French army
M51b	Non-stop 5-character groups	F		French army
M76	ABCD de EFGH QTC xx xx = 5FG 3607X RRRRR 201XX NNN			
M89	Markers like V YHxD YHxD YHxD DE SAQC SAQC and 4FG messages. Cut numbers	CHN		Chinese military
M89v	M89 voice transmissions	CHN		Chinese military

M95	Markers and 4FG messages. Cut numbers. Morse counterpart of V26 and Q26	CHN	M95, Q26, V26	Chinese military
MC03	Tracking data. Various formats	CHN	VC01	Chinese Air Defense
MVC03	Morse counterpart of VC03	CHN	VC03	Chinese Air Defense
MX	Single letter beacons/markers	RUS		Russian military
P03e	QPSK 100Bd/488-bit period	POL	E11, E11a, S11a, F03, P03	
P03f	QPSK 200Bd/496-bit period	POL	E11, E11a, S11a, F03, P03	
P03g	BPSK 50Bd/464-bit period	POL	E11, E11a, S11a, F03, P03	
P03h	BPSK 100Bd/512-bit period	POL	E11, E11a, S11a, F03, P03	
P03i	BPSK 100Bd/512-bit period	POL	E11, E11a, S11a, F03, P03	
P03j	QPSK 100Bd/504-bit period	POL	E11, E11a, S11a, F03, P03	
P03k	BPSK 100Bd/480-bit period	POL	E11, E11a, S11a, F03, P03	
P03l	QPSK 100Bd/464-bit period	POL	E11, E11a, S11a, F03, P03	
P07	Russian intel. 8-tone OFDM, QSPK, 62.5Bd, 125Hz + BPSK, 250Bd bursts	RUS	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1, X--	Russian intelligence
Q26	Digital counterpart of V26 and M95. Mode: 4+4 QPSK 75/3000 LSB and 4+4 QPSK 75/1000 LSB	CHN	M95, Q26, V26	Chinese military
S06	3-fig id, 00000 OM/RR	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
S06b	3-fig id, two group (commencing with 11111, stutter)	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
S06c	Repeating single group	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
S06e	3-fig id, two messages	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
S06f	3 group msg, ends 00000	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
S06s	YL + slow zero's ending	UKR	E06, S06, M14, F01, F06, F06a	SZRU
S11a	nnn Cherta 00 or group count + message. Konets	POL	E11, E11a, S11a, F03, P03	Agencja Wywiadu
S28	Buzzer	RUS		Russian military
S30	Pip	RUS		Russian military
S32	Squeaky Wheel	RUS		Russian military
UM03	X2M (probably Chinese). Mode: CW			
UM04	PROMRCh. Daily transmissions. Format: VVVVV PROMRCh = 27 09 = 1000 0600 0640 0780 1160 ... ABV repeat message = AR. Origin: Bulgaria	BUL		Bulgarian military
UM05	French morse training station	F		
UM06	Various formats morse strings	F		
UM10	10-minutes net. Callsigns sent for 10 minutes 2x per hour on 2 parallel frequencies. Seldom messages are sent.			
V07	Spanish Man 000 000	RUS	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1	Russian intelligence
V07F	French version of E07	RUS	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1, X--	Russian intelligence
V13	New Star Broadcasting	TWN	V13, V13a, V13b	Military Intelligence
V13a	New Star Broadcasting (AM, 5-7 msgs to 5-7 units)	TWN	V13, V13a, V13b	Military Intelligence
V13b	New Star Broadcasting (AM/USB hybrid, intro 2x, 4 msgs to 4 units)	TWN	V13, V13a, V13b	Military Intelligence
V26	Voice counterpart of M95 and Q26	CHN	M95, Q26, V26	Chinese military
V32	Tavajjoh (Attention) followed by strings of figures in Farsi			
VC01	Chinese Robot (tracking data)	CHN	MC03	Chinese Air Defense
VC02	Chinese voice morse stations	CHN		Chinese Air Defense
VC03	3FG callup and 4FG messages			
VC05	Chinese time stamp station. Operator calling a 4-figure callsign for four minutes. At the end the actual Beijing time is mentioned.	CHN		
VR01	Russian station passing coded messages. Active sinds at least March 2014. Seldom heard	RUS		
X06	MFA Moscow. Selcal system for diplomatic missions	RUS		Various
XPA1	MFSK-17/10Bd transmissions	RUS		Russian intelligence
XPA2	MFSK-14/7.8125Bd transmissions	RUS		Russian intelligence
XPB1	MFSK-16 transmissions	RUS		Russian intel
XSL	QPSK 1500Bd. Slot Machine (Japanese Navy Telemetry)	J		Japanese navy
X--	21-tone MFSK with 125 Hz tone spacing + 13-tone MFSK with 250 Hz spacing	RUA	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1, X--	Russian intelligence

APPENDIX

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	- .			Plus sign	[+]	. - . - .
O	- - -			Invitation to transmit		- . -
P	. - - .			Wait	[AS]	. - . . .
Q	- - . -			End of Transmission	[SK, VA]	. . . - . -
R	. - .	Ö		End of message	[AR]	. - . - .
S	. . .			Starting signal		- . . . -
T	-			Multiplication sign	[×]	- . . -
U	. . -			At sign	[@]	. - - . - .
V	. . . -			Break	[BK]	- . . . - . -
W	. - -			Ampersand	[&]	. - . . .
X	- . . -					
Y	- . - -					
Z	- - . .					

For Cyrillic morse etc., see also
<http://udxf.nl/Morse-document.pdf>
<http://udxf.nl/Russian.pdf>

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

3rd shift Cyrillic RTTY as used by M42b

Q W E R T Y U I O P (K V Z
1 2 3 4 5 6 7 8 9 0 K = - +

Word	E11a	S11a	M03
Attention	Attention	Vnimanye	
Slash /	Oblique	Cirta	- . . - .
Out	Out	Konets	

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	Itzien
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	dvoyka	Twso	Two
3	... — —	Ba	Fwee	troyka	Drei	Three
4	 —	Bô'n	Fo	chetvyorka	Vier	Four
5		Năm	Fav	petyorka	Funuf	Fiver
6	—	Sáu	Six	shest	Sechs	Six
7	— — ...	Ba y	Seven	syem	Sieben	Seven
8	— — — ..	Tám	Eight	vosyem	Acht	Eight
9	— — — — .	Chín	Nine	dyevyet	Neugen	Niner
=	— . . . —					
/	— . . — .					

Note: E17z, M03 and M08a are defunct.



COLOPHON

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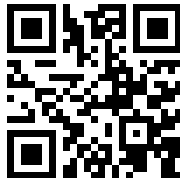
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976 27364 92836 89428 61288 14982 36498 32704 81276 81
986 40932 70987 32123 49817 26346 81287 65491 87364 81
721 75654 55656 12737 72727 72727 91918 63473 67867 70
723 87629 37677 32612 53498 71296 28756 18276 98716 87
7269 76329 74698 76857 98678 27681 56781 57681 73648 1
7591 87364 87265 96718 27638 12673 84769 28743 98127 5
758 63298 75698 27465 87326 49876 28376 81273 98615 86
67 87432 74328 78674 29867 32867 67867 86786 43276 498
67 68768 68763 34234 34238 68768 62342 48273 48768 230
936 98432 32432 86743 43286 43286 43286 43286 43286 432
743 86743 86743 39867 32867 86743 43286 43286 43243 86
751 86743 86743 86743 86743 86743 86743 86743 86743 86
983 98798 98754 98754 98754 98754 29867 67543 67986 86
76 87698 69876 87698 69876 87612 12341 34867 86798 652
667 43298 65656 56756 56123 32143 14321 32143 14321 321
98 82787 58765 76587 58765 76587 58765 76587 58756 765
86743 86743 86743 86743 86743 86743 86743 86743 86743

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