



2019

*UDXF and Numbers and Oddities wish you
a healthy and peaceful new year*

Numbers & Oddities
a.k.a. The Spooks Newsletter
Edition #255, December 2018

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

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

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



FOREWORD

First of all I wish you and your dear ones a great, healthy, and peaceful new year !!!

I'd like to thank Jim for compiling the UDXF logs each month and to MDK2 for his monthly HM01 report. Also thanks to everyone who sent logs or info to Numbers & Oddities and UDXF in 2018. I hope that you will continue your support in 2019.

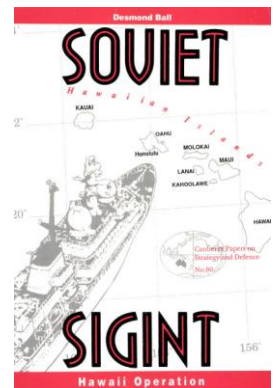
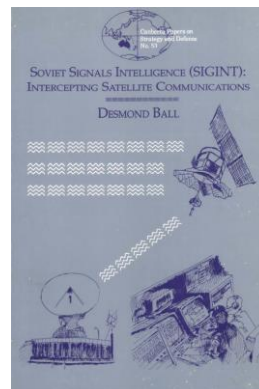
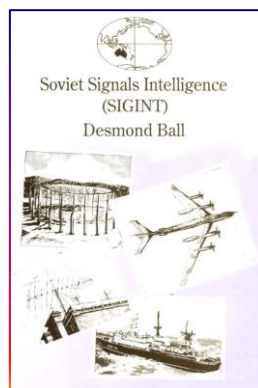
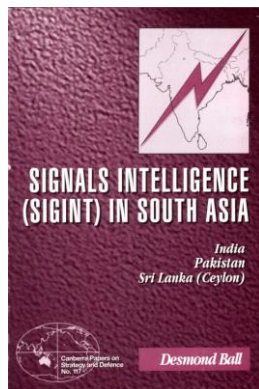
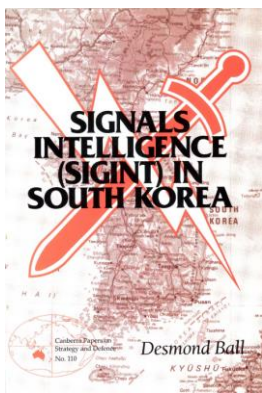
Daniel spent a lot of time finding X06 locations and found quite a lot of them. Read further the [X06 section](#). Further a lot of EAMs, M08a messages and 2000 logs.

The 2018 index can be found just before the Logs Section.

By the time that you read this, the updated "1978-2018 Numbers Stations Log Database" will be online.

Eddy sent us a link to this interesting article: **WAR GAMES: Russia and China team up to test controversial RADIO-BLOCKING experiments** <https://www.express.co.uk/news/science/1061243/Russia-china-war-games-radio-blocking-tests-ww3>

Years ago I bought several interesting books written by Dr Desmond Ball, former Head of the Research School of Pacific Studies in Canberra, Australia. Some of them are now free of charge, also available online. I highly recommend the books.



The links:

http://sdsc.bellschool.anu.edu.au/sites/default/files/publications/attachments/2016-03/110_signals_intelligence_%28sigint%29_in_south_Korea_Desmond_Ball_P100.pdf

[http://bellschool.anu.edu.au/sites/default/files/publications/attachments/2016-03/117_Signals_Intelligence_\(SIGINT\)_in_South_Asia_India_Pakistan_Srilanka_\(Ceylon\)_Desmond_Ball_P134.pdf](http://bellschool.anu.edu.au/sites/default/files/publications/attachments/2016-03/117_Signals_Intelligence_(SIGINT)_in_South_Asia_India_Pakistan_Srilanka_(Ceylon)_Desmond_Ball_P134.pdf)

http://bellschool.anu.edu.au/sites/default/files/publications/attachments/2016-03/053_soviet_signals_intelligence_sigint-intercepting_satellite_communications_canberra_papers_on_strategy_and_defence_desmond_ball_151p_073150559x.pdf

http://sdsc.bellschool.anu.edu.au/sites/default/files/publications/attachments/2016-03/047_soviet_signals_intelligence_sigint_canberra_papers_on_strategy_and_defence_desmond_ball_159p_0731505034.pdf

http://bellschool.anu.edu.au/sites/default/files/publications/attachments/2016-03/080_Soviet_SIGINT_Hawaii_operation_%28Canberra_papers_on_strategy_and_defence%29_Desmond_Ball_94p_0731512103.pdf

VOICE STATIONS

E06

9382/13426 kHz, 03-12, 0210/0310 UTC

537 812 812 35 35
41286 32082 32057 99511 87816 75049 17494 74933 82171 13418
91682 27354 98451 74606 68618 29304 33048 14305 63084 93517
73587 14662 54641 07466 60784 21028 53897 18508 77985 57920
97377 53969 60340 68639
812 821 35 35 00000

4836 kHz, 06-12, 2019 UTC 11 111 111

4836 kHz, 06-12, 2030 UTC

321 655 50
69059 32549 71652 48279 42103 22046 44103 36985 74135 69182
14203 56824 49378 15672 95713 45685 43289 42487 32156 41258
69871 45824 17498 48324 68524 74196 34752 46861 66582 44256
50123 40682 00592 96354 75216 82433 13564 56568 52134 62544
41302 79264 11358 46252 23588 41365 54682 97123 45168 24685
655 50 00000

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

923 607 51
53898 77272 32701 71394 41481 44396 93158 91918 05500 22530
29399 77842 43017 70991 83011 37092 68542 11712 85597 12418
94537 75541 09060 26581 26096 19358 69886 97557 05705 93661
85892 15948 69052 65348 08821 01780 97806 25349 81278 82901
80299 35807 91412 62134 16064 96512 23784 65388 25153 35245
29872
607 51 00000

4760 kHz, 07-12, 2130 UTC

472 199 42
56712 87190 57901 43598 78122 78901 32492 43291 78932 31249
23453 45397 08014 98943 08205 75002 19054 45303 98073 14954
87639 14053 01384 13405 13445 89035 09713 18374 89563 78913
31754 31434 03185 13454 45659 90723 90753 32455 90790 02750
34584 03823
199 42 00000

14585/17420 kHz, 20-12, 0600/0700 UTC (14575 expected)

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

923 861 54
37868 97044 80080 70389 19481 87200 34566 27655 61535 33803
37813 37935 97533 08546 44168 27339 04870 07649 55990 88988
30772 50336 59805 82526 83582 03975 95748 00123 56554 71816
40016 97427 76355 04269 04971 12905 93468 19643 86630 23969
56674 45304 14190 13394 38797 15183 81294 44401 05918 84558
63732 67878 47224 48074
861 54 00000

4836 kHz, 20-12, 2020 UTC 111 1

4836 kHz, 20-12, 2030 UTC

321 129 43
45278 70761 25050 92165 29612 38989 49278 92909 65854 34727
43892 16321 43492 74341 03416 30383 41236 32723 09270 94569
69896 90163 67294 56163 83878 56549 21416 38745 85292 70967
29278 52749 85430 74189 69414 76561 41456 30983 83296 74729
47014 14765 21452
129 43 00000

E07**6823/5823/5123 kHz, 03-12, 2000/2020/2040 UTC**

881 881 881 1 129 44 129 44
90721 61618 10199 45452 02784 58551 48608 07717 17294 08096
68477 03502 55638 47728 80320 05313 06843 66913 98342 86330
83859 19236 71732 47314 98902 33160 90747 67901 05602 59069
84768 19087 94430 37980 14711 24483 15939 50686 13095 08494
00116 49089 57157 72134 000 000

11493/10193/8193 kHz, 04-10/07-12, 1100/1120/1140 UTC

411 411 411 1 3042 173 3042 173
33894 49384 92863 72458 63100 76578 99509 61427 15523 75259
41193 43945 51195 63649 66458 77404 54299 38049 76011 46975
56271 56475 03941 89964 34717 62232 09963 94423 18898 55138
68463 63331 09882 40275 48434 53144 83186 92179 31946 07308
41165 17975 65172 60715 97519 23892 33670 63934 68075 11614
43109 77607 26966 02428 45055 97295 38458 24177 73580 68562
90787 37923 34349 68381 37369 93060 38668 09939 70871 03602
75046 44651 77098 30867 16729 40138 26531 94216 56512 12209
97341 35804 76865 39394 90468 92783 56254 93884 15952 03160
74655 61594 06073 21140 6-885 49075 18903 49809 06710 55333
56788 66451 72778 27250 93297 52541 01335 41842 99623 24622
61655 05287 39384 87903 23591 64460 56588 00491 38995 73108
54540 06411 33680 70788 92522 24815 13183 59564 99833 93795
97029 88067 82199 04575 06695 29787 96988 92428 10804 46835
40256 22824 60311 76270 11436 54167 71511 91303 15360 93758
80194 88358 13939 02254 60412 18970 96415 60440 92796 80706
60046 45153 41526 26691 62908 61310 46726 64599 29817 44054
30630 99209 95917 000 000

6771/5871/4571 kHz, 09-12/12-12, 1800/1820/1840 UTC

785 785 785 1 379 73 379 73
44446 38733 37682 42954 08325 95034 81050 16792 68471 53264
62006 08241 46432 16919 78686 61053 71574 19664 34558 86423
46539 55274 00781 33472 73606 42782 98732 84839 34051 50021
97568 26140 57949 15048 96429 35738 12052 26347 68997 72531
59539 22033 47765 02607 33649 65597 22096 22749 40565 04382
69200 23761 53286 46717 15556 55707 71693 43187 85522 66222
00629 89161 86887 19503 47271 35233 49059 39844 38217 96990
05951 69215 20737 000 000

6823/5823/5123 kHz, 10-12/12-12/17-12/19-12, 2000/2020/2040 UTC

881 881 881 1 798 68 798 68
64562 21846 76638 02971 55288 64063 16657 94239 67368 59299
87740 75142 00518 47948 48157 91753 10387 75862 78047 47906
52964 84726 04051 92379 55151 82008 43545 84730 25029 68089
79252 40784 57956 1x279 93243 17119 59963 51821 35125 29635
00775 07202 02436 00611 93090 43104 77279 28097 43009 80754
88792 83459 48606 99510 16361 48111 86994 71103 29150 30252
86406 17974 66933 47442 86563 69683 81899 79804 000 000

14364/14964/15964 kHz, 11-12/14-12, 0740 UTC

399 399 399 1 211 111 211 111

87847 98405 38354 91501 83558 15418 91447 06947 34290 27893
44153 61088 02118 55706 98372 85322 48298 96632 36766 64821
20193 58891 42730 78859 88005 29461 63786 80876 35436 22383
40787 40686 76509 41897 26237 95494 94113 48827 24460 30255
38242 15599 87225 86870 89212 21735 28241 13652 09733 45000
63990 84916 79343 01575 47766 54811 56961 30691 49052 55621
93621 50029 86810 16223 70974 94800 16171 34369 64971 53940
40545 32221 49343 98075 48490 15684 67404 85457 21720 02413
31225 64433 60840 85061 52311 67553 37610 37252 78040 46256
33825 93920 60110 43437 55494 86768 72164 28827 75583 75201
99634 12082 05721 28240 04711 26963 86799 68981 95116 44809
34774 000 000

10226/9226/8126 kHz, 13-12/15-12, 1410/1430/1450 UTC

674 674 674 1 362 79 362 79

14319 30573 56686 88151 12180 80861 35939 01623 28114 78249
22188 71675 04004 35590 19740 99709 31640 08510 31438 17874
97490 11419 34217 15355 94405 20660 84262 28952 80342 75669
83732 60894 90330 91577 32175 73211 81957 52209 55978 39978
84705 75153 69335 88835 56763 39283 91711 38557 43000 76014
51693 11971 43189 56250 99021 54922 12978 65788 01556 11673
40452 58128 09765 15921 14882 02340 52340 09236 49750 42748
76266 99397 27606 30670 95329 02036 59729 89243 29007 000 000

6771/5871/4571 kHz, 16-12, 1800/1825/1845 UTC

6771/5871/4571 kHz, 19-12, 1800/1822/1846 UTC

785 785 785 1 9237 173 9237 173

46681 93338 70700 51434 15157 02499 64492 21043 64102 89484
00761 57742 07040 01093 09533 35651 83161 23701 01767 23932
06812 10192 62731 51030 04832 49073 32313 60475 66423 22299
81148 49198 00853 06083 58847 70391 83084 43896 08707 18352
71211 11476 30403 89223 20788 72868 66272 01162 09316 58560
71754 05849 86484 23382 25117 40389 36294 94957 26616 54960
33539 38782 95405 35137 38782 50989 84703 13155 67845 11190
16151 09864 40605 40468 82778 30405 87655 62710 68763 90467
98038 31902 83547 54359 94910 94883 42902 67878 23470 63750
01073 46877 81675 45373 29690 36638 11763 98683 71934 00971
30667 77662 00317 18068 48646 65119 49930 67162 28385 03858
71201 01532 60277 81843 75691 77142 64626 58446 73298 49721
66893 44651 75732 03341 26965 81759 25657 25155 34346 82048
60859 49266 06911 03708 91777 94599 45054 28278 89693 44477
67032 97238 24348 81459 80582 26099 50576 10317 69445 96031
54075 86812 54708 74833 95337 67642 85781 31581 97089 40975
12034 04430 15735 16422 54315 92540 73778 59404 32349 85919
95401 59913 56505 000 000

11493/10193/8193 kHz, 18-12/21-12, 1100/1120/1140 UTC

411 411 411 1 410 109 410 109
93956 48987 12632 59078 04921 43197 11858 25200 23441 05550
32752 34184 33704 15426 53916 89226 90011 84619 11432 69854
48402 71773 29526 70656 23524 05524 63189 90980 80364 85021
24406 91179 44338 45144 75959 84174 54879 27069 57063 58545
02303 45560 78884 23617 49489 37000 69835 91069 21933 93533
74989 11418 27417 41691 79581 62450 55604 34037 72269 35485
42583 62755 03234 76797 64926 94604 53667 82540 87151 67417
20993 63757 48046 47609 16867 59603 32106 55827 19933 91166
14325 86084 93395 45387 36891 39015 84812 02375 42151 04279
36710 80592 24375 18724 73154 31842 00343 57979 47263 00324
47840 16828 98912 62182 16520 81741 43117 01286 63218 000 000

6823/5823/5123 kHz, 24-12/26-12, 2000/2020/2040 UTC

881 881 881 1 257 43 257 43
09075 47963 82881 85397 18413 02043 74094 23451 26892 17170
56901 27491 83471 30594 57807 94336 85306 81298 12156 76963
18528 85499 75646 64500 97679 65601 12547 18033 65546 82435
58472 13840 64948 30865 91988 39683 06329 78503 95942 26730
68374 09988 07384 000 000

14364/14964/15964 kHz, 25-12/28-12, 0700/0720/0740 UTC

399 399 399 1 596 93 596 93
40281 70478 79706 91547 04827 29065 02888 44124 48888 96738
51633 24810 52817 92969 82708 16063 57885 15099 68167 19001
53153 72260 14760 67971 13919 17509 77414 74489 71861 17490
42137 40750 55500 68401 72800 47044 74594 47198 05865 85093
28365 62321 57169 89416 07873 87092 28818 96394 82947 71521
23559 52549 52006 19643 15570 00472 44972 07698 36251 88057
51928 31383 27538 70641 11232 11949 32643 16262 32497 04065
47818 53478 20171 05234 49240 71533 16434 24305 46495 94216
33040 52082 22582 40563 93956 97133 59460 77745 18736 56568
34309 95607 27649 000 000

6771/5871/4571 kHz, 26-12, 1800/1826/1854 UTC

6771/5871/4571 kHz, 30-12, 1800/1827/1852 UTC

785 469 188 469 188
00625 69093 05939 10927 34664 25970 61711 85408 88683 97685
29314 68393 22029 85567 13126 46687 22772 36489 32759 07403
36332 40351 55060 85224 01063 44660 22791 60484 05780 35498
14464 67318 24960 72637 22067 02034 96751 22980 00386 50013
19538 11937 19234 48923 33083 78262 89325 22904 36160 99640
11878 29351 27202 93294 87817 67764 11564 74863 05276 05788
80436 84657 04005 15816 75397 62278 15386 85614 50698 49766
87136 39776 77520 75295 50841 98520 74081 29634 73906 64995
20350 57751 85333 89472 40514 06364 35044 97033 84736 89214
21460 84915 44292 21953 27149 97718 35047 58604 13569 34926
78162 01835 35776 13548 71044 26191 10553 95170 35766 78881
04349 16973 90774 10027 66156 15806 69323 68137 02832 77936
53038 40472 99533 24626 62852 13163 24064 55228 18393 09573
54722 07309 66967 23196 69290 13558 01045 81242 02781 56136
43922 84395 57114 13190 43498 26564 71132 26240 64345 60155
22880 54775 98881 91534 77654 70044 89631 92922 16897 88784
53580 23876 52645 71033 54706 16157 65736 87896 75655 91858
23905 90410 86545 51449 71153 83860 14704 77179 95766 91533
82520 06628 03795 13507 25384 43314 04141 05246 000 000

8123/9323/10423 kHz, 29-12/30-12, 0700/0720/0740 UTC

134 134 134 1 755 55 755 55

57236 07078 94374 76561 12018 15730 02507 22105 52461 51494
69891 05403 75834 46709 11677 80228 72334 32149 23142 37985
29205 01248 29638 21780 04727 34984 20192 72973 30585 99447
20083 29979 01367 65576 91988 06751 16741 13577 80224 88801
10412 85271 05711 30967 65616 33069 52012 95202 39559 21685
41137 28019 81384 15298 36438 000 000

E11a**7377 kHz, 01-12, 0805 UTC**

310/39 Attention

84294 76014 50728 75590 91102 12542 70741 48503 30749 08146
52826 06641 24086 30091 75565 55280 00965 97189 23513 11959
30124 81599 87085 62684 88863 06135 54120 02536 24911 66060
40628 31817 46126 98335 69721 05396 18163 32259 03779

Attention (message repeated) Out

4909 kHz, 03-12, 0450 UTC**5779 kHz, 06-12, 1730 UTC**

415/38 Attention

28073 37667 27486 88396 77567 41527 35093 13897 22984 09291
20436 81600 31440 26937 57156 36579 88487 17156 26738 86552
74928 31243 50054 89482 59655 31548 51585 92208 04945 84612
50092 05397 73680 29121 30697 34872 07348 52732

Attention (message repeated) Out

6984 kHz, 03-12/06-12, 1900 UTC

641/34 Attention

17776 62508 85432 95715 26199 20290 38018 46952 16157 43147
06281 33241 09777 14024 31244 90254 53185 92708 42154 66815
58821 39713 26769 62750 65413 25504 53567 97885 13081 10177
34657 07248 12531 08859

Attention (message repeated) Out

14611 kHz, 04-12/05-12, 0820 UTC

131/37 Attention

45249 46586 33088 89421 12542 82233 57405 87085 58649 59866
37951 70172 76048 84877 92275 49464 29696 70764 22569 96884
71894 90272 35582 15850 06922 58409 52142 81663 26770 44236
80447 22000 36181 96162 26424 96891 44462

Attention (message repeated) Out

8800 kHz, 04-12/07-12, 0845 UTC

306/23 Attention

22796 22449 97347 97549 99733 22213 17336 99631 98876 87480
69864 17443 61089 54506 45687 53938 33862 25972 62118 94945
46542 78472 59359

Attention (message repeated) Out

4505 kHz, 04-12/09-12, 1605 UTC

232/31 Attention

65229 02174 27097 02174 27097 03116 74477 44024 15729 13967
36699 01231 33730 48533 42911 57364 05403 51221 14239 21367
29234 21391 60467 96316 78348 48299 75864 57504 88056 04387
76876 47638

Attention (message repeated) Out

20167 kHz, 07-12, 1225 UTC

522/40 Attention

69395 60769 46430 71683 08543 36206 05154 94844 74750 33686
34498 92206 35911 25706 95056 68435 27298 35367 09024 55492
81085 62587 79302 20244 43201 77295 34642 19256 62462 37857
95842 54413 49885 68760 82458 26582 39092 25110 33206 51510

Attention (message repeated) Out

16335 kHz, 07-12, 1650 UTC

926/36 Attention

15617 53188 90495 91505 94136 22302 95461 93261 74837 69459
98457 56645 68643 67466 52479 67435 80219 77137 11037 22808
51972 12138 74661 86170 96757 06181 32956 52619 31770 56974
02248 84927 38631 70161 23990 14456

Attention (message repeated) Out

10213 kHz, 10-12, 0745 UTC

5409 kHz, 13-12, 1530 UTC

262/38 Attention

22760 59971 87729 59916 39745 98230 90246 11334 25925 39325
17459 91623 26233 14911 46095 48576 95511 86885 66394 04174
31128 71736 45161 70010 39110 55771 20632 68592 92602 43969
37281 60455 85867 17008 60082 95190 05002 14493

Attention (message repeated) Out

8597 kHz, 10-12, 0900 UTC

8597 kHz, 12-12, 0900 UTC. Only a test tone but no transmission

535/33 Attention

67335 99039 59433 74040 14174 88760 82446 24452 27353 52528
56309 69680 80985 04260 62895 23243 35317 97714 49767 41054
71499 06281 96690 97962 82733 37462 78434 37071 77282 06289
55586 39656 09986

Attention (message repeated) Out

7840 kHz, 11-12/13-12, 0645 UTC

512/38 Attention

02568 46194 04033 38042 39539 50178 13756 92889 96972 87821
12134 65749 84593 74169 98313 24931 42485 91378 90045 59860
20629 44426 88309 06830 24540 50363 60866 31841 37130 66039
98871 75362 97164 16933 37448 59053 45378 54586

Attention (message repeated) Out

14753 kHz, 11-12/13-12, 0735 UTC

389/40 Vnimaniye

00022 07009 74976 33517 31806 94095 31165 52939 33131 82440
67405 03303 74922 95935 39269 82694 25509 16904 05315 41876
51903 34253 01677 45655 95320 03001 09632 52747 05038 14147
85965 60180 43318 54924 56486 14134 30901 59327 69124 74773

Vnimaniye (message repeated) Konets

9443 kHz, 12-12/15-12, 1705 UTC

395/33 Attention

32119 79228 77602 63795 14236 33927 84951 17554 85735 50036
08544 35872 79632 88093 90047 21111 24670 59301 32293 69896
65718 40235 41006 00204 06851 17114 17598 36118 62792 46770
50694 12730 49145

Attention (message repeated) Out

10487 kHz, 14-12/16-12, 1910 UTC

612/38 Attention

54305 49029 15883 40601 90456 64230 09490 50158 76919 31469
51827 72252 61702 05839 42588 64169 15889 31093 32313 22240
63448 57862 57087 17113 12485 84568 11832 62999 01593 73984
05362 90047 42189 41343 21151 66338 85248 69370

Attention (message repeated) Out

4505 kHz, 15-12/16-12, 0710 UTC

496/35 Attention

76361 02661 96557 69553 49032 21973 93898 97547 48885 22809
68930 33535 63329 79338 99505 72684 90956 57948 99854 93350
78451 93339 70395 42242 51870 41588 67516 04524 93027 64410
90252 22687 07729 33913 52927

Attention (message repeated) Out

9200 kHz, 17-12/21-12, 0600 UTC

180/24 Attention

79573 19949 18263 86671 82734 17922 16126 53964 29630 16250
36453 93005 37339 70392 80568 37421 91379 20109 31390 70059
87748 57970 30258 18513

Attention (message repeated) Out

4909 kHz, 17-12/20-12, 0820 UTC

430/31 Attention

37731 18992 48197 78555 08875 15763 71037 09226 01555 18630
99136 89860 91450 00964 05859 55789 77416 18639 33162 91622
10534 32886 69918 83552 72426 26463 78163 62986 34669 39969
95578

Attention (message repeated) Out

7984 kHz, 17-12, 1045 UTC

694/27 Attention

73261 07192 62308 26375 88620 72324 93901 93911 06864 90524
39359 63865 09601 55394 22074 47878 25043 51402 32101 15884
93126 17831 15484 89887 67656 58003 53108

Attention (message repeated) Out

9130 kHz, 18-12/21-12, 0715 UTC

631/38 Attention

68839 45747 48524 78125 12121 69570 07806 53443 83063 09103
98096 44383 95795 77949 20103 26357 40399 64077 25661 67965
21295 09566 06475 09947 05438 05527 08533 83923 53565 49542
25108 29290 21995 63021 82931 10974 20105 42692

Attention (message repeated) Out

7984 kHz, 19-12, 1045 UTC

695/48 Attention

73880 37777 86224 92439 62037 66197 77360 94710 11014 53781
13190 59868 42751 20067 97972 63921 52185 68604 39007 40810
34362 93368 01346 58443 79433 86169 89173 87590 45950 28684
69957 10668 05498 02248 63840 66540 89573 31177 78629 63792
39602 56641 32335 44521 66819 51759 08875 52348

Attention (message repeated) Out

10448 kHz, 19-12/23-12, 1625 UTC

972/34 Attention

41992 18917 85668 45420 13552 68427 45566 97397 27039 69848
18280 83987 50788 01730 99229 68155 08436 57234 26923 55853
45381 95132 82733 88518 05330 28199 80995 14823 43416 07877
67155 83063 98605 31373

Attention (message repeated) Out

11450 kHz, 24-12/26-12, 0640 UTC

942/32 Attention

53469 85194 19270 20685 55851 28960 67405 01141 96860 34164
67829 23779 25083 33654 52213 55000 66179 57778 14529 17861
39078 67615 11828 43979 36401 11423 11265 68369 33548 91386
80877 98267

Attention (repeat message) Out

7984 kHz, 24-12, 1045 UTC. Repeat of 19-12 but with a different ID

699/48 Attention

73880 37777 86224 92439 62037 66197 77360 94710 11014 53781
13190 59868 42751 20067 97972 63921 52185 68604 39007 40810
34362 93368 01346 58443 79433 86169 89173 87590 45950 28684
69957 10668 05498 02248 63840 66540 89573 31177 78629 63792
39602 56641 32335 44521 66819 51759 08875 52348

Attention (message repeated) Out

6804 kHz, 25-12/28-12, 0700 UTC

574/34 Attention

86088 42964 27089 56489 73269 55814 63691 99384 46345 86417
01032 46774 43337 28605 63903 08314 65308 19776 65679 93676
97372 02768 95279 61176 04274 42175 60292 26993 40896 67780
83428 06851 64736 56589

Attention (message repeated) Out

11104 kHz, 25-12, 0845 UTC

152/24 Attention

13661 22981 88801 59970 56527 45506 19607 48775 42520 39466
11372 48778 60712 50316 33405 96409 34208 70833 18971 18358
73203 85122 13520 50436

Attention (message repeated) Out

8180 kHz, 26-12/27-12, 0930 USB

278/32 Attention

70266 66485 27005 85251 31902 51533 48523 30326 25091 35852
91624 51319 99800 63136 23236 01925 94654 32982 05541 75398
75779 88642 43711 00857 98305 59772 25333 10562 88602 13213
39100 40847

Attention (message repeated) Out

7317 kHz, 26-12, 1205 UTC

462/35 Attention

40064 68182 83665 27175 80580 99679 09709 96249 78466 80318
93230 46229 58666 27629 38530 76033 40314 42816 72988 79654
06407 08262 29801 28034 02757 15545 80148 71814 01619 34023
29650 29508 36235 26615 27800

Attention (message repeated) Out

8545 kHz, 26-12, 1730 UTC

402/32 Attention

21853 03649 47270 ?2324 91426 69204 19844 13917 93784 31301
74283 17608 19239 29188 37203 41735 70975 49361 84417 81370
86418 85858 76292 86164 40016 76010 78622 74797 25845 10609
77206 50475

Attention (message repeated) Out

E17z**11170/9820 kHz, 06-12/13-12, 0800/0810 UTC**

674 813 5 38163 33231 31323 32680 85418 813 5 00000

11170/9820 kHz, 20-12/27-12, 0800/0810 UTC

674 930 5 65962 57057 54661 01212 01578 930 5 00000

G06

4519 kHz, 13-12, 1816 UTC Windows error sound

4519 kHz, 13-12, 1818 UTC 111

4519 kHz, 13-12, 1829 UTC

271 281 49

69512 64538 79512 16472 56712 63948 42672 46821 35987 12042
30214 58974 29584 02347 89732 15244 56928 71797 52484 41892
42897 41204 12589 40235 40568 42370 40568 40125 47013 40152
41256 98555 73658 13498 76418 21852 58289 23782 41205 42565
52689 71203 00235 46825 91523 47825 52535 48523 42597
281 49 00000

4792 kHz, 14-12, 1930 UTC

436 404 41

35984 52790 78205 78054 74670 05241 76994 99350 05791 35971
78054 78240 53974 45931 32590 02579 25791 22579 78214 41984
78517 17081 17845 25792 02476 25793 35967 78246 25641 31017
47931 22841 59374 48077 45793 61504 96951 45912 07016 10184
02019
404 41 00000

4519 kHz, 27-12, 1830 UTC

271 129 43

45278 70761 25050 92165 29612 38989 49278 92909 65854 34727
43892 16321 43492 74341 03416 30383 41236 32723 09270 94569
69896 90163 67294 56163 83878 56549 21416 38745 85292 70967
29278 52749 85430 74189 69414 76561 41456 30983 83296 74729
47014 14765 21452
129 43 00000

4792 kHz, 28-12, 1930 UTC

436 129 43

45278 70761 25050 92165 29612 38989 49278 92909 65854 34727
43892 16321 43492 74341 03416 30383 41236 32723 09270 94569
69896 90163 67294 56163 83878 56549 21416 38745 85292 70967
29278 52749 85430 74189 69414 76561 41456 30983 83296 74729
47014 14765 21452
129 43 00000

S06c

6810 kHz, 17-12, 1836 UTC, i.p. 11025 (R)

S06s

Many transmissions were .1 or .2 kHz off frequency

5765 kHz, 07-12, 0900 UTC

624 off after 1 minute and back at 0902z: 624 839 5 42387 44142 30698 33104 31985 839 5 00000

S11a

5815 kHz, 05-12/07-12, 1955 UTC

373/33 Vnimanye

07072 53511 67451 41147 68467 36820 98153 60372 38831 52246

52289 07936 48415 76256 08426 60069 70119 89150 67670 59918

01472 18760 95179 67661 00134 87218 13044 59137 53794 67264

50836 01487 33765

Vnimanye (message repeated) Konets

11559 kHz, 24-12/27-12, 1015 UTC

470/35 Vnimaniye

53610 30362 14984 06657 13998 96807 73687 92637 42613 94036

04270 53019 56439 97059 42537 23008 88887 56899 93487 09714

92067 64920 66918 85597 92267 95072 89478 48204 05879 25468

71076 45807 27798 18732 28031

Vnimaniye (message repeated) Konets

10728 kHz, 26-12, 1540 UTC

564/33 Vnimaniye

96479 48641 80182 48515 46951 20856 73600 07685 00380 03459

59122 64708 50526 02218 15956 43102 52627 91038 73190 28416

70945 47852 08778 01563 93500 30811 46352 68226 31643 76447

19055 48457 35169

Vnimaniye (message repeated) Konets

11486 kHz, 26-12, 1850 UTC

282/39 Vnimaniye

51157 30990 81274 19918 97228 67072 91324 28636 75071 03608

10130 40285 28950 03801 32935 38968 51826 26006 30009 06696

37821 64874 79674 90886 49032 64720 05902 44568 35903 30828

56409 56827 86045 48171 85668 23649 09628 26502 93358

Vnimaniye (message repeated) Konets

7600 kHz, 28-12, 1020 UTC

422/40 Vnimaniye

36865 38789 83451 87204 73364 65677 14820 09868 76567 73872

79783 17398 45962 72103 50955 64142 13120 31326 48191 20841

23390 45191 91758 42357 52680 26407 86056 70492 13153 11112

95050 79161 49670 86887 33576 96240 15340 33238 57838 56834

Vnimaniye (message repeated) Konets

V07

11594/10794/10194 kHz, 09-12, 0100/1020/0140 UTC

571 571 571 1 9728 43 9728 43

97559 61283 49926 27742 30918 96734 39711 13006 98683 26053

28629 98199 38777 21077 10979 90559 24137 50444 79046 59277

43661 43265 49242 61832 85647 43087 76788 90531 05158 88351

38290 15935 69081 18080 16693 86326 74144 79500 08479 80983

41319 10018 47847 000 000

11594/10794/10194 kHz, 23-12, 0100/1020/0140 UTC

571 571 571 1 5689 51 5689

01329 96684 71912 95676 45537 46230 68519 93204 26766 65419

54374 59998 29818 92691 23178 17833 78786 24885 50871 23493

47023 78684 03822 77435 77248 51002 33759 23495 27016 56179

81625 58126 30569 57641 99519 76233 50622 15728 28416 47637

28942 54778 84767 69544 70320 59594 63864 48141 32065 99572

90869 000 000

V15 via PBS Pyongyang Pansong

657//3320//6400 kHz, 13-12, 1545 UTC, AM

North Korean intelligence via PBS Pyongyang Pansong. Message in Korean on

V28 – Parrot 앵무새 Aengmusae

Aengmusae (Parrot) used various time slots in 2018 and quite some frequencies. Often 3 or 4 per time slot. The signal is often drifting.

Callsigns include:

Sam-Bong-san, Heuk-ryong-san, Cheon-gye-san, Rak-du-san.

Timeslots: 0800, 0930, 1030, 1200, 1300, 2100, 2200, 2230 UTC.

Frequencies:

2595	2934	3048	3520	4503	4627	4953	4978	5155	5169
2831	2936	3049	3776	4512	4628	4957	4980	5155.5	5170
2900	2970	3049.7	4102	4577	4629	4959	4981	5156	5171
2903	2996	3050	4473	4593.3	4630	4960	4983	5158	5180
2928	2997	3051	4476	4621.5	4631	4962	4985	5160	5215
2929	2998	3336	4480	4621.6	4633	4963	4986	5161	5291.8
2930	2999	3345	4482	4622	4635	4963.6	5146	5162	5293.6
2931	3000	3504	4487	4623	4640	4967	5151	5165.8	
2932	3001	3517	4492	4624	4947	4969	5151.3	5166	
2932.5	3002	3517.8	4493	4625	4950	4973	5153.3	5167	
2933	3047	3518	4494	4626	4952	4974	5154	5168	

M01

5810 kHz, 01-12, 1500 UTC

197 178 178 30 30 = =
03862 95574 78285 41289 25310 40798 33995 30006 49403 78370
48592 43506 97870 36402 71119 38167 73163 93061 35017 70581
55847 56924 80241 48894 66623 77757 97992 13039 26323 31532
= = 178 178 30 30 000

5465 kHz, 02-12, 0700 UTC

197 345 345 30 30 = =
47557 23838 14564 59166 02516 28985 77034 30587 11176 89559
86116 42293 08518 06652 12343 76812 29833 14984 20647 44115
44475 55885 65642 04277 60973 71163 59836 13570 86054 72868
= = 345 345 30 30 000

4490 kHz, 04-12, 2000 UTC

197 425 425 = 30 30 = =
93241 82626 90109 79365 77305 83364 23536 29270 52553 00561
39980 69553 40123 66682 09190 48303 28477 75627 59013 13152
44994 51510 45830 95582 08150 25092 19214 81860 15524 23148
= = 425 425 = 30 30 000

5465 kHz, 09-12, 0658 UTC. Early start

197 701 701 30 30 = =
78034 27167 42745 70222 61057 31101 86470 56078 96086 06106
24967 35471 80422 65337 93890 58786 00499 01007 96508 97088
06366 61813 77485 29080 00648 39931 38696 98273 54226 63647
= = 701 701 30 30 000

5320 kHz, 11-12, 1800 UTC

VVV VVV VVV
197 972 972 30 30 = = = =
24303 57706 01010 85214 81706 91867 64211 27538 82843 16619
77389 01369 41031 38511 82902 86126 94541 86810 96998 49135
77694 36071 99057 84021 22676 21719 42207 04529 48701 82286
= = = = 972 972 30 30 000

4490 kHz, 11-12, 2000 UTC

197 931 931 30 30 = = = =
76939 33437 15219 69985 27842 04619 15302 06846 60527 97024
73561 41788 60004 30546 54863 19387 38753 03007 53671 64537
60006 83314 24003 98569 37802 25147 80619 85473 17591 89504
= = = = 931 931 30 30 000

5320 kHz, 13-12, 1800 UTC. Different repeat between brackets

197 468 468 30 30 = =
72546 78157 87576 76184 84630 51797 59027 84562 32525 67707
81732 01642 29647 75829 17499 13703 61987 99242 90058 24046
80434 42087 56992 70841 89407 65775 62456 (42456) 11040 04778 48823
= = 468 468 30 30 000

4490 kHz, 13-12, 2000 UTC. Different repeat between brackets. 26th group is 7 digits

197 823 823 30 30 = =

53681 35171 80835 76660 96074 83931 24981 34463 59667 25528

42976 68894 18631 05998 36740 81015 27373 00269 17828 24057

13914 74395 46274 94924 89153 2551021 4187 (1987) 40024 31246 67555 = =

823 823 30 30 000

5465 kHz, 23-12, 0700 UTC

197 683 863 30 30 = = = =

09485 51712 32367 51227 14804 52025 49200 10792 07654 88517

71684 00499 43616 62523 51592 87794 14605 38844 94870 40912

96369 92723 03078 08249 86082 41089 11726 79127 84274 96342

= = = = 386 386 30 30 000

M08a - Dirección General de Inteligencia

Oddities:

8136 kHz, 09-12, 2257 UTC. M08a mixing with HM01 :

8010 kHz, 10-12, 2315 UTC. M08a mixing with HM01

8136 kHz, 11-12, 2300 UTC. M08a mixing with HM01.

8096 kHz, 31-12 ,1401 UTC. M08a started while already in progress. Almost unreadable due to a very noisy transmitter

8096 kHz, 13-12, 1400 UTC. Started halfway the first message

NIIR GAUWD DRDRI WDTIG UUWNN WUNAT WATUU DUNRI GIDNW GTDNU
AWDND AWDND NGRRW UGTRU RNAIG NDDDI GTIRT TAWWN UWGTT TWDR
UNRGA RDRUN IWIDU RAUTA NTRDG RNNID IIDWT TADNW UGNIW NADTR
IUTWN NGNNU TRURI DG TT DGGIW TADIR GURAI DNUGR RAWUT AGTNA
DUTWR UTDNW NAWNW IAIUG ADWNT UNAIID NWGRG GINIA WTADU GGRGI
GTGUI AGNTA TGGUT GTTWR TTNGG IGGUA UWTGI AWDUN TWIRI IRUUR
NDNDR TIURA ADUND UWIGN AIWAA GTWAN GNWWR URDTN UAIWD WTTNR
AAAGT WIWND TANWN TADNN UAWIN URDNR TGUGI AUGND RGWUI UUGID
TRGUT WRAIG GAAGD GDWGG WTAIU ITTDR IANTG WUWNA TWIRD TARGU
TTWNA UWTTD UTWGU RGTUN ANRTN DDWUD WWDUR GWNIT IIDGT ATWAD
ARUGN NTRNI GDUGU RURAN INARI
+ + +

ADWTN ADWTN ADWTN ADWTN ADWTN = = =
WNAIU AUINA DGGUR GWWWG GNDRI IRIUI RRAGI ATIUA RUWGW NRRUW
DNRGD NIRDN GWUTI TGTDI WAAIA AWNID ATTDN TRRIR IRTTI NINGR
WIIIN INADN TDWII UWAAT TGANR NAWDI IUUTR ADADN WDIDW IGGGD
TWGAA GGAUA RTIDR RDGID GDNRA UNIGU NRDRU DDDIW UDIAN UNNDW
RNNUN TAUAU RTURA RNANN RRGDR UAATW IANTN DRIDN GRDNI RWNGN
ITTWR ITTAD NDDIN UWWIA IGTIA RNWGR WWTRD GWTWN RATGA TIRTW
TGANG IIDDN ARGRD RDNDI GINTA DGNUD WUIWU IGGNI UIDAI ADWGR
AWUTW IIDWT GRDUG DDDTG WWUNT RWUNA TTDDI RIUTU ARRGD DADGU
WGNRG UAAGN RAIGU ITGAW DIWAD NWIUA INNRRG RGGGW ATRIR WIGNU
NGNNG TGATW GTNWA DRTNG RTUTW NITIU RENGW NGNGD UIRAG UIUWG
WIWWT IWRGR GGATD GDUIU ANIID NGGTT DRIIT DTWRG RNWGD RIIDD
WGIGR WNIAD AUUII WTWAW RWGWD ANWTN ATAWR AUGAT WRRIN UIIAR
UANDR UUWDI IRNWW UWTUR RRART URTTR WAUUD DGDIR ARDIR DAGAD
DNTDT DAAWT GARDG WNGTW UGTGN IAGRA GNTTT UGUDN WUGII IARIT
DGDGN GTTNG DUNTG AAIDD UDGIT TADII WUAAR ATNIA RDDUR NAUWN
+ + +

NRGDA NRGDA NRGDA NRGDA NRGDA = = =
 IWTNI UUGAT IRWNR RRIAR NATNW DGUTR WGRTW GIWTU WRGAU ADNIA
 RIIWN UNRND UUDND GTTAR RNWTT NTGNN NATGG GWIWT UIDUG AWIDG
 UITUI DNGAR WIAAR WDUTU TUTAW WIUDU WRDTI DUIII GGRWR ANUNR
 GTAGD UWDAA TATNR WNTWU IAUTU RRARW DIGRG GGGTA NGGUI IIRAW
 GARTG TIAAR UTWWN GDTRT DWDDT DWTRR UGGDN TDGWG TUATT WAGNU
 DTUGN DDIID GGUNA RGWAA UWIRD AWURI IDTGI NTUNA DGNTN DUNRG
 AUAND RGAAG TGURG UDIUD ANGUU UIAGU URRRT AWDGG ITIDT NNTDG
 AUAAG WAIGU GTUUG DUNRR NWWWT TDRUI GARUN ITWAG DNTIG WNGIW
 AAUNU RNATD NWUUR UGAGA UWATG DNIWG AGIDU TUNNW AWDIT TNTRT
 GAWWD RWNTI URWUI WNARW NNIUU RGTIT WNRIU TGGRW IIINA RNAAR
 NGIAG TRDDU UNIWR NTRRA GWWTN AURII NGAWG TTINN GINII INTGT
 ITRTN AIADG DRNGW GGIDW DIDNT DANTG AGDAR IGWTN UDGTD UWURT
 ARUTW DRRTG DIUGA GNDGD GUDDG RRNDR DWNDA WUWIN WADNG TDRIN
 UUARN IGWIN TDUGN WTTWW AGDUR GDTDT WNWUI NWTGN TWRAT GWUAU
 AITIA RRTRA AANWG UUADI TNAWR INGWD DRRDG IGGDR IATNR GDUNG
 + + + SK

8096 kHz, 14-12, 1354 UTC

IITTA GTDNN TDRWA IITTA GTDNN TDRWA IITTA GTDNN TDRWA

IITTA IITTA IITTA IITTA IITTA = = =
 TRWAN INNGU ADIUN GNRNU GIAWA DATTN TGAND ADAIW RTNNT IWURD
 AUTRW GIRNG UGIWN IADAD NNRNU DANTD ANUAW WRRNT DAWAR GNGUR
 IUAUG INWAN AWUDW IDIRG AWARN WDATN TTNIU TAUDI WWDNR NAWAT
 UWGNN UNATU DRRNG IRDDD WRWUA NATGR TUAUN WIUDU DWINW UWITG
 GUNWG WRDUU RRGWD TTIGI NWUDU GARAA DINGD GWRWN ITGRT DDDWU
 ADNUG RIDRR UWTIU DRAIU GNDTI ADGWR WDGAN IWARU ARUUT WITIR
 RUTNI GGTUT NWRDN GRUID TNDNR DDUGR ITDTI DDNAU DIRRW NTRT
 TADAU IGDGI WNUIU UIRAG DGRWI NWDWT GTTRD NIGWI RDNUW DAGIG
 IIIWG UTNRI ADDR G UNAGN IWWGD WNNAR AIUTG IUDDW AAWIT DGNAD
 UIRRN IGRWG RUDDD UNTAA IGRRW UNNRI TGWIR GWUAN ANING AAGWW
 RIDWG DNUIU URIDD DUTNR RRDDG GNWRW GGIRG WDGRI NGGAT TTUWW
 GNDRU NTIWR UAUND WWTDA RUIDG GNGNU WNDIU ATAIR DWTNR NUTN
 TDUGT WNNUW IUDAG UDRRT UTRRD TAATI ATURA GNNRN NNWRI IDUNR
 WNITT RRNRU NRWNN WWINI IRNRR DWNTW AAWRA IDDWD NRDRN TNWDW
 DRDAN URWIR DNRWU RWRIA ADNNU RWTRN WRING GGRTW RIGGW DDDUU
 + + +

GTDNN GTDNN GTDNN GTDNN GTDNN = = =
 WIUGW RWNTN RUNDD IIRDA GTRIU RTINN AIWIR DINRG IGNIR RRWUA
 RDTRA UNAAU WDWTI UTAGU TNNWG GDRWA GUTTA UNTGI WTADD RINWD
 TWNTD UIGND AUWIA UNIGW DIWTW UATWT AUTIR ANRWW AIAWU DRTWW
 WDNAR NDRIN RTWRU GWRTI NIWWG AAWTG UIDWR GIAWA NTAIR DNAUT
 ITADTI RUWW GDRTT GDUNA DDRWU RTWDW RIRGT TDWIR DGAUA AGDNI
 IGNTN DIGAR DNNRI TNDRW TDWAU WNNNA AUUIA WUTRN UUITT RNTTN
 UAGTI IWWUR URTII AGAIN ANANU DGGDU RADDD GNUIW UUAWI DRNIG
 GAGIU IRGGR ADNWN TDRUA UUUUA DUWUW WRRRA DUUIR URIUW AAUAA
 WDTDR NTTGD RARAT WDNAR UTTWR RGNGN INNNU GRWAI TNWDW GTAIG
 NRIIN DTAUD IUGAR RTNDW DGTAU ADDGU ARAAG IUNGI DINNT WUIUI
 IRTIR GNIGW TDWWI GDWTW RTGTT URRGW WIUWW DIWAN IITAI IUUIW
 UTWTR AARGR IUUII URUUA IUURU ATUIG DTDNT TRDGW WNAWT IGRIN
 WRNUT GAATN NUNAW NAWWA RDITG UNAIT TGAUI NDNTI ANTGA WINUA
 ANWNG TNDWD AUANR IDWDR ANGTA IINDR ANUAU DNAGG TRDUU IGTTD
 NRGRG NWRNR NTWWD WIDDT DRTIR RTWDW UADAD WRUNI GDTNN GIRT
 + + +

TDRWA TDRWA TDRWA TDRWA TDRWA = = =
 GWTDI URNGI TDATU RDRGW UGTTW GAUNN WATIT GGUTN UNTDT IAIRA
 GTRUA ITTWG URTGG RRGTI TGTNU AIGWA ADWDD WTUAA ARATU IRDDT
 IAWDA RIRRA IWNWU URRDW IUAWN IIWUR GRTND NUUUD ITGRD GDRDI
 INWDW RGURN WDIRW WGRTI GNTUW TAGIA UNRIW DGTGU DDWRG IWGUR
 UARGD GDRWN WDNRA GWDNR DTGDA WIGIU EANAN RWADT UWDNI UGWTN
 TTIUD WTRDG GATWA WAAUT WITDI IADGA GNNDT ANTTG TIIGN WTWGI
 NDGIN DRNTD NDARW WDNTI NGGWG UNWTD NDTUG RIWGU ANNAI NTNDI
 IUGWD RRTRW ANWAW TGGTD GIDGN IGWTG NTRRD WUTUG WRGTD ADDIR
 WRINT TIGNI GDNTA NATIA UDNWD DUTTI WANWA IWUDR TTAUD RGDWG
 DNRWR TWUDD GRIAT UGNUR TATIT GIATA WIIAD RNUGW IAWAI DGRRU
 RWWAG WGWTN WAAAT GNIDN UADDU NGUAA RIUDT WGAND AINAN GGRAG
 NNTIR DGAI I ADUTR TRRRR IDWII WTGDI INRIT DUDGT TRDIT ANWTN
 GNAUT GDTIU ANWUR DUGUI RRWTD WNNTG GWUNU TAIGU TWNRN INIGI
 TARNN ITSTW WTDNN UTAAD WADTU DIRTN GDIIA WGRNW NGUUR RRWDN
 DARIU TNTIU WDNUR WNWWN TUTWT UGNRR TWRRR ANADT NUTIR IRGTT
 + + + SK

8096 kHz, 17-12, 1357 UTC. No preamble, but right into the message

= = =
 RUDGU ANDGG AAATD WWDTD NANAI RNWWU TIGRT WUIIW RNAWW IGRUI
 DIGNT NWDDG NGTNN GNWU RIADG NWNDI GIUGG RGDNT GDUGI GGIGT
 RTWWG RIRDR DIUAW IGURT TGWID GGIDR WDUWI AAARG ARIUA NUANI
 WUITT UNTRD WAADW UTGNG RINTW TNTRR INDNU RTAUA TDIUW GRNRD
 GTGGD DDNUI UGUNI WRWGU TUNGI GTIDW DAWUT NATTW ADTND IAWDT
 AINWN RUGNU UUURW ATRUA WAWAN RWNNU GWURD TDGUU WNWTI TDTGG
 ANIAI WWDUW UNGDI TARUU WGDND WIRII TWUAR TATUT UUARU AUTAW
 TITDW UURAI AWAGW WTDNI NUADA ITRTA NAGGW ITRTA DAAIA NTIIW
 ADWGD IRUWR ADDWI NTDNW UINII UAUAA TDUID ITIGG NTIIR RTNTG
 WRUGA GRGWR ITWDG UGDGN TTITA TDDID DWANT ITRUA NNWAU DIUUD
 UTAUN WRIGR RAAAI DGTDN RDATA WRNGT TWGIU TTTGU RGDNT WTGUN
 TNWDD TADNI TTDIW IAWIA RUWUR DGUDI IRWIU DWIAR DDIWT UNWWN
 AGUWA TDDNR GWDNG WUAUT TDRRT IARUG RINNT TWWNT IGURI UUAIR
 ARWNR AIUGW NITWU AANRT NURII DRIUN NRIDT UAGRU TNWUR RGATT
 AGTUW TURGN ADRAA WWGAN GRATU NAWWD NRIWU UNAUR UUIRG WGWTI
 + + +

NGUWN NGUWN NGUWN NGUWN NGUWN = = =
 GNNIW ADDRD NGATI NTIAN INNWN IUWAR GIRGI ITGID IUDWU RTGRD
 IIANA URUWT INRTW WDGAG NUDGT RATDN AGRRT TANGA ATITT ITUTN
 TDTDR GNGTN IGRIT AATGR NADTG TDRTA IUARN WUDWN WGDG INIIA
 NDNUU TATAW TGAAT WDGTR TIAND WDIAU DNNTN AWIWU GGDWN RUWGR
 TWIAA NNDGI NGANT TDNAG INWTW WRARR TTART IUUGU NTDG DDUGD
 IGITT UDIAD TIUAN UGIWA AIANA IUTUR GAGWU TNTAT WGUTI AADNU
 TTAUW UWTUU RWADD AWDTA RARAW RNURW NNTIA WRTRA DURRI UNGID
 AWGUN DANWG GNUGW DIGDG WWDRT TWWAW NNRNW ITDWT WNTWD WRRII
 GATDN TGTGN DTRTW IRDWI ATWNT DAURA AAWUT NATDR IDDW IANDR
 RGGU UDDAN UWIAW IDRUG GRRAT WUWGN WRRRR WAATW RWGTN IUWGN
 UAGII DTRWN RIWRN DUDGW IDIIU WTNWU NTNNU GRGNT IUAIW UIGWN
 TTIDI TGNGR WINRN GNGRU TRADU TTTIR WINTI IRANR INGTU TUIRD
 WWADN UAUNG WARWA WDNWG NGGTW AWDGI GUGIT IIDDT ITUNG AGDDR
 DUWRW DADTT AGGIU UNGGI ARDRI GNDWW NNNDN UNDWW URRNA WAITA
 TDNND UGUNN IINII ANTGA GIDDA AIDIA TTTUI GIWIU UIGNT NNGDT
 + + +

DNGIA DNGIA DNGIA DNGIA DNGIA = = =
 NWTGG RRWAA GWDAG ANNNA UINTN AWIAD IANAA AGRWG ITWAN GUTRT
 ITIUR AAIAI IGIGN ADRUD NIDIW DRATD NNDGT RNIDW GRUND DWGAA
 DRTIG GAGDW GNTTR RTIWU DTWDI NGUWG INUTN TNTGN DRIGU ARNGW
 AUGNA TAUTU UGUUU TUUAI UTRTA TWNIN GTUTA AIUNR AINUR DDRWG
 GAGWU GUUDA AININ GNGDA IWRAU IURNU ARATN ITRTN NRDWA RRRDG
 URWUT UAWDT NUAAR WGGRD DGADG WTAUG ARURN IWNDN RGDRI DRADI
 WTWGT GWRUI RUNRN RTWDI IGUNT IATTT UGARA NUAWG IIIWN RNDWN
 TTADD RDGNR AGGTR TTAND AAIUT IDRTD NWDGI GIITU TRRUN WTIWT
 UUIDT IWUIW DNTWG GAUGD DAUAI WWWTR IWWTN RUTWG DWAID GNWTI
 RAGDW GIAUN WAGID NURII NNTTW RNUGR RANGU UTWUD RRDUR GITUI
 TAWGD DTRDR WURUN UWWRW WUUDW GUUDR IGAUR RRAAN TAUDI NDUAA
 NGGIU AGIIN GWITN RURDT UDTIN IAWUI GIWRR AWWIA GNDDD NUIGA
 WTNRD RTGNW UNTIN UDGGI TININ UNRAR IWTAU ADNNI TRGRU WIRIA
 RANWT DNGRD WNAIR UWAWI TGURA GDAGW AWWRD NRTUU TUTRW ATNAG
 GAITA IGIII ATTWG TTUTR NDITA TGWWT TGNAW AGAAN TDITA NTARI
 + + + SK

8096 kHz, 18-12, 1418 UTC, i.p. I copied only the last message

RIDAN RIDAN RIDAN RIDAN RIDAN = = =
 DIWGG NTWGG UUAWW RWRAU UGTIT INRGU GWWND TNNNR GIIRN RAIDD
 TUGUW IWTRG NNGUI TAIUW WNIGW NARDU WTDDU RDGNG DWURA UAWRU
 AIWWT NRTIT RNIGT GTGDA URUDN AGWNA ITNTD GTTNU WGUTT WNNNN
 DRAGG RWADW DAARW URTDD RWADU GUNRT TGWAG TRADA GGATN TTIGW
 DTAGA NDDRR NNNNT ARDDI DRWRW WWGAI TIRUG TINGW RNNUT ADUGU
 ATANW IWTUA GGIIR AWWUG NRWGW RUGRD WTDWD IDGDU TUDUS TTTUR
 TRWNA TNDNG GTUGW DIWDN UUWNG RTTNT TNTWA RUITN AGRIU DRNWD
 TRDAG VNWTI NTRAU RIDWG RGTNT RNDAG RIDTR AGWDI RDWGA IITRT
 WHRGD NIDRD RGUUA WIRUT UNNGI URWGT ADNUU WIGUG RADGA WDDUI
 NNGNN INNGT RNDGT NWWTA AITAR NWDDD TGIW AGIWU ANITD IWRNA
 DRDDR RWUNI DGNUI GDTWI DADRD UDWTU DITTI DWAUG WIIDU DIAWG
 WIDNI AWRRD TWNRR WAIWI GGIIN DWUID RWNGA DATTD RUAGI ADWNW
 WUAGR UWRGA RNRN GUGDA UNGDS RRDAT DNWWU AATRR UWURU URNGU
 GWTRA UWRRW UIDAW GGRUR UAWRA TDWGI DDUNG TTTND DRAUG TWNWI
 GNATA TDNTR DRWGU TGUIR GGNTT IAGDD NRUWA WRUGD NADNA IDIRI
 + + + SK

8136 kHz, 18-12. 2300 UTC, i.p.

TANNU IIUTI WDGNG GAGTR NGIAW AATUR NAWAN NWGUD TWAUT GRITR
 TAIRA TAATN WGRUA RIDDR UGWUI NIWAW WWAGU IDWWR IARRT NRGGW
 NGWDU AGDDN TINRI UWRAN AWIUD URTUA RRGNT NIIGD NDTUR DTIDI
 RGIUD GRNGU WRUTI UTGRT WNUGW DGADA NIDIR WGRAW AWDTR RWWIW
 TRRGU UNATT AURDG RGTAR GRAWU ATWTU NUDRT GUDDD WNNDT NWITI
 UUDAN RRNTG UADGA GGUGA GGNRA NUNAG RINUW DATNI INGGT GIDNW
 TDAAN TAARU DTRAA RDARU URTNR GRRNI RIDIT IRTIG GIRGD NWGRA
 WNANN INUNN TAWWG ADTND NRWNT DNRIW NAUTT GDIWG TWUIU IUNTR
 WGTAD AUTNW NITGW NDWTW TWDIW IDUNI WI.W. RUWRR DGUUA WUARD
 RIGNU WURGI RAWTD TDNWG DTTRD NNGNT RIDGR NRGIA UTAAU DIAUI
 AUAWW WWNDD ADNID IDUGR TUTAD GWDTN + + +

NADNA NADNA NADNA NADNA NADNA = = =
 ADGUN AIRUU NNRGT DGTNI INARA UWTAR GWWDD DRAUD WNADW GDATR
 ITUNN TGADR AAWWI RWTNT RDWAR TGWIA DWRNR TUNTU TDGAN UTGDD
 ADIIW DTAIN IWRDW GNTNG RIRWR TGNTU IGTUI NRGRG IDTGA ITDIA
 URDGI GDRTA IWNAD NTWWG DADDG WNDAR DIIRI NIDAN GDTWD DTUWR
 ANAWU NTTTW TIADG IANIN NRWAD IGRGR IRTGA WRTIG WGUAA TUANN
 INNWD GNDDA TIRUI RTWDG GIGGT DGDUR IRDUW NNANU INWGG WGRWW
 UDIWG UIGGG DIWIT ANRRN DNNRG NDRWN GGD TN TAANA IRNWG TIIII
 DTARD TWNWR NWNTD WWGUG GUDWR RNUGW RGRTD GWUTI RWIGN RDDRD
 ARWWU TWNTN GIDNT ANIAG TWATD DGDRU ADGDU NNARG DWD TI WRTUD
 ADRIA UINAU WDUAI DRAGR GNUUW ATWNI GTNRI WAIGN UGRRU INWDW
 IUATA TWWTD GDTIA NRIUD D.WGW DIRTN TIUTN RNATG TANIR DTUUR
 WNRNU TADAA UDAIU UTWRI RTNAI DGIGR GUITU TTTT NRARG WWWUT
 ATADU NGANR RIDAR GGGTA RGRIT DNIIR UUTDU DTATW IG TIW TNIDR
 AITUD TWAGG NATRI GUGTI ITIGN DWWUI GTNTW AA AWI DDIRG TINWU
 TWWGA NDG NR DAUGR GRIUG AD.DA GDUNA TUUIT IRAUG GTITA RTTAI
 + + +

DDRWN DDRWN DDRWN DDRWN DDRWN = = =
 NADUR WANND UIWAW TRAAD WNGUI NNWGD NTDIA NIWRD TDWIW IAWWG
 WWT TN RWRAU DIIRD WUUI N UTRDW NGNUI IRGRI ITAGG GTNIG NNRWA
 IUDIU NDIIT GDIDN UNGWN DAITI GWRGR UUWUT IRRGD TNTWN DG.ND
 RITD. ADAGU TTGDD IDADT IATDA AARDA ANTIU INTUG RIIUD NTNIN
 DNNGR NDWGU WDDUN WIRND UAAGG IRATD AININ RWD TA DINGI IIG.N
 UTGGG RAAGN DIIGR GWDRT ARDGI AWGGW URDRW GTWWU WRRIW RIDDA
 GURAU NUADD DWD TA ATTAT TARIA WWWAG GTNAT ITWIN DRUUU RWANN
 ANAWD RUUWU DDGGG IITWU W WNAI IITWW GRWAA NAITU WWWRG TIRTG
 GGIUW ADWII NAATD NWIDT RUNGA DTNUD INAIW TAWGG UUGRI WINNN
 TATNR NINNI TIRWT NWIRR DDING TAGRA DUGGA RDNRA GGGUW DARGG
 TDAWD IA.DW WGDWU TUNNT TNRDW ANWIW IRADN UTWDG RNRUA IRWUU
 WAIID WIGDT NDIDA NTDRR RNUAW NIWRA IGUAI ARRGD RWRRR WIGDI
 TIWGA UIDID RIGRG IURTR IUWUG RNDRW DWIAD IADDT AGNAR GGARD
 WGNWG GRTWD RITRT RIAAA ITRTA DIGWD NRTUA DGIWA TRURN UNNIW
 INNGA RGGND WURRA WDGNT G TGN WGWAI WNRGG GTGNN RNAUW DIWGI
 + + +

8096 kHz, 19-12, 1457 UTC

TDRAN AUUUN NIIIN TDRAN AUUUN NIIIN TDRAN AUUUN NIIIN

TDRAN TDRAN TDRAN TDRAN TDRAN = = =
 GGANW RGWRU NTD TN RAAGR RDTTN DUTIU RATDA GDTUD TWIRN RIGTW
 DNGUD RIRTA AWWTA AWGIG UAGDN GRNUI NNWTA TRNUA ATDIU GTRND
 ARIGR IWIRN RIAUD WWAGI UNGGT IRDIW IWNDT UTNWI UTWIU IDWUW
 TWITU NUIGT TTTAD NRIRT DNWAA GANTN DITWU WNRUW NANDA IWIRN
 NDAAW TUGNN NNDUR GTWRT UUIWW DUGUI AGINN TNUDA AUWNT NAWRG
 TDTNR DATAN UWDAD WNURT WADRN DRAWU RTDRR IGNWI GWWGD AIIIU
 GIITG NAIII GWITT GAGDN UDWTN ARIWR RINDW DIGIG RNDRG DAAID
 WITRI DRDRR INITW GTAWW NNIRA WNRII WDDTU NWUAA RNRIA NASNI
 GUDIW ADTTA UDIIA DDIGW RAITA DTUTR WDRAW UURAI NTWUW TNWWA
 DGRWD TWWRD WDRAI RTUAI RWWAT UGTAA AGGNN IBIUT ITAWN IRDNN
 IRNTW UUAAD GIUUU DIWWI GDIRG UNGAR IDNIN UDNIA UNWIA AUTUN
 GARIW GTIUG WWUII IRR TU ARTNN GATIW WIRNU DGARI WNADT WTAIA
 DIIIN IRAUG DDDGD NITTW RDTDU UWIWU DAGGA DAIRN RIDTN IDNRW
 DTIRU DTANG GWUAT AWIAW GNUGI NWNGU AWTTI TTIIT WRINW URGIT
 DNARR GUAWW UGGWG RDITR ANWIR UWURA RTDDR DRGDI IIRWU WTAWN
 + + +

AUUUN AUUUN AUUUN AUUUN AUUUN = = =
 NIWND ITTTT RTWID UUNII WNATT NUIRD IGTUT WANAU GIGIA IDIUG
 ADTUD INNAN GARAD WTWUG RTAIU DGTAR IINIU NWGDA RRWTW DWRDU
 NTTAW RUDGU WNNTU UDRGU DIAWI IHRGR NTWGT WNGIG NIRGT IAGNG
 AATGI RAWNR DTTGW DGIRT AWDNW RWNNG GWGIN ANADA NNAWD WRAUR
 RNGTW ATUGW RWUDD WNNND AATDG UDWDN AIIAD NWTDH UGGDW ATDTW
 GGNGT TRRTR NTWTU GUTTU NAITD NGGGW UGUNG ITDGD IAGIU UGIIW
 RIAAA TTNDA GANRI UNRNR NNRWW DNTWA GURRR WINTI RAIWN DUUUA
 WTADD GTUIG NTAIN IDITG RIDRW NIAIN NNDGG NDNWN WANRU UUUTA
 RTWDN IAWWR TNAGU WITTN UGUTN TRDIR GTIAI ITWUT WAATR RAIGN
 DRDGG GNNDG GATTN TUAAG DDDRR TTTUI NRNIW GINWN RAUAR IARGN
 DAGNI RAATI IWIIT TNIIU NGGIN TGGWR TANDT DADIU GITRN WDDIW
 RANDI ADDTD WWWDG WIRAW WIGDW TUTAI RAAGD NGNII TRTIT TRTAT
 WRNRR RDDIA DARWG WUDIR GWNAW WRUWT NNAWD WWUGI ITUGU RGGGW
 UNAWG UADWA GAGNU NAIUD NAIDN UNNIR UWGDG DDGTW UDDGN NGWWD
 NWIGA NWNIA WGUGR ATNWW GRGDU WWGTW RDIGR GGNUT RWGWN DDIDD
 + + +

NIIIN NIIIN NIIIN NIIIN NIIIN = = =
 NNUUR TTNGD WDIGT WNRIW TRWAR NAARN AGWTT DGTGR UDRWA WAGDT
 IDDTR WRIID DAAGR NRNNG DRIGA ITGDG ADWNG TGANU UTDRW UARDR
 GGNTI NNIUD GITIU RADNW NIDHA DAWTW IANAR GWTGW WGNTG TDURR
 DAARU DNGGW GURGN TANND ARAAD TDIDI UWNII DGDGN TDNDA IWADD
 NTWRA AATNU DAUUA GDIDT UWANI WUITG RTUWU DIGIU UIADA UWTUI
 TNWRW NTGNN TDRRI DDGGG IGGDI NUWAI RGNTD UUWII NWGNG TNTAR
 ADRWW ITTWA ITTTT WAINW GITRI IWRWG DWTTD TITUT ANDTU WTRRI
 ANDIG UWTWD DNGDT NRIWT TAGTD RDGGG GIUGT IUWND UUDTA NNATN
 DIDTN WGWID TWNTG ITWTD NDATN AIRIU IGNGG DUGAW NTNGN NANUA
 GIAWA UGRDW NUWDG NUIRG UTIAG WAGTD RGWIA IWIND DIRNN TIIUW
 IINTD WUUTT TUIGA ADGUD UITRN DIUUN NDRIW TTADI INDGN NITRT
 GNNWT IUAUN WDUTG ANGIR TGNTW TWIII TNWGN TWIUU RAGTU TGDUD
 TIWUI DWAND NUITN UNRGG TITDN TUNIA UDINU UARDW GWAWW RTDIW
 NUUWW IWGGW GDAUI RINAU TRNNW WUGIR DGTIT DATIN GRGGG ATNIT
 NWTGT DUGRU DGNRT DAGAW GGIGR IAWUI WIGUG UTGRD TNGDA GRIDT
 + + + SK

8096 kHz, 20-12, 1355 UTC

GGUDN TNIWN AWAGA GGUDN TNIWN TWAGA GGUDN TNIWN AWAGA

GGUDN GGUDN GGUDN GGUDN GGUDN = = =
 UANAA WNWUT TRDND TGDGA UNANA DNIIU WANTR RNGWN WGGTU GGNDN
 UTRAR NUNTT GWGRI GIIGR GIDWN NUGWA IGTWA NWGDD ITTWG ARIDI
 DWTIR DRDRR RNRGR RDDTA RAATD WGGTU IDRWD UNRUN RGRWN RDDGW
 GUITN AWNID RATDD NNIAG ATRWD ATATD AUDAW NGWRU NDAWR TNDUG
 DRTAN GRNNU RTNAW RRWDN NDGUG GGDRW NDRTG DNDGA DRNAI WGGUT
 WINNN IRAUW WURWG GNNDI IUGAI NTWAW AUITN RGAUI UATUR NNDAA
 DADWI NIUTR IRNAD RTIAA NUTDG IGAUA ADRRG WINDN AAAUD IRTTW
 RWUWU DNDGN NRDN ATTND UDUAU GIWAR AWIUR GGARI GRGWW DNAIU
 WTRTT DRRND DRDDI TWDII NWNUT ATDAI WNNRI TGWRN NURAR TNDAN
 UIWGI ATNRR TWITA WNNAG TNDRN GAIUT UURDW IDNIA AARTW TNTAA
 WWDWU NDGDA RUTDI RRTRN URNWU TNUIR AWWNG ATANW UGWUD TWWRA
 AAINR NGRDG ARNRG UGTIR UDTRN WTWIA ADARU RRIAU GAGRR TDWAU
 WRUTG RINND TRUII GGDTU WANGG TDIUN WGDWI TRRIA TDGID TANTN
 AUTWT WAAWA IDIGW DTIAI DRITR NADII URGGG GWRGW WTNRD TUNAW
 RTNNA URIAN WNARG RARGG RIRTA RDAID RRTIG URGTA INITA WNIGR
 + + +

TNIWN TNIWN TNIWN TNIWN TNIWN = = =
 IDAWT WUDNG NNAIR ARTRW WNANI GUANA RWNRI ITDDG WWIAR NRRWT
 ATADA RDTAI GRDUG DDNRW GTTNT AWUUG TNUWA UTRWG ARWGT AAUWD
 URATT GGDIT TTAAG WUUDT WDURI WRIDG DGWWG RDIGI WDGDU WNGWR
 RIADR DDNWA RDDAR UWRWN GRNWD UNTUR IRITD NDIUD GRIWA IIIND
 WWAGU GNDTW DAWI DTGIW ATNUJ DTTAW URGNN WDANR GTWGU UWDDR
 WDNDU UDIWU TGWND GAUGT NTRDW ADTUR GNWTU NDARR GANDR IITDU
 ITDWW WINDA DUNGA ITDRI UUNWG RNARN UUWWI TATRG NAATI NTWAN
 NUGTU IAAWD AUGNU IIARR DTNUT ANUDR WNARI IWAUA UIRUA UWRGT
 GTGIR NGAGA RWNWI GNADR IWUIN ATIRN IAND UDRDA WGIID AUNAT
 WWTRG NRUTT NTNAT TRTTA IIRRN WNGIU WDRWW IDGRW GWRWT NGWUD
 ARTDT DUNIU UTWIN AAIDI DWIAT NADWG WWTWD NGRWA RDUTD RUIDI
 TUDIA TNATN DDUWD DNTNG ADWGI WRARI DDTAW DGGID IDTGW DNIDI
 WTGNW NUTGU DWRNI IAIDT AWGGT NDUTN TDUAD IRUII IGANG UNARW
 NRWUA IAUGG TAUAN WININ NTTNT WTWAN NNRUI WTWIN DTTDD UGWU
 DTDGA AGNTU RWANA DAWR INIUU ATAGI IUIIG DRNUR WTIRU UDWTD
 + + +

AWAGA AWAGA AWAGA AWAGA AWAGA = = =
 ITRRD WDUTN UIGAA TAWUR IUWII DTWNG WUWUI RDDGR UGNTT GRAUG
 RIADW IAGDN NNNNU WRRGT TNAUR AADTN GGDDG AAUIU ININT GAWND
 DTWID RDNGI RTTRU TWTGD UANTU NUITI AWGTN IRNRD NDAWR IRIGW
 WNTWA NRWAD DUIWU TWNAR AUIGR IRNUN IUNIW IITTT WAIAR GDIRW
 RGUDA ANUAR UTTDU TDRWG RUGNA GUITA GNWGN RGNRW NNAWI GTTTT
 TRAUN UDUTD TDGGA GUTRW GGIWW NWANG ANIRW RDWRI GIIII TITIG
 TTUIW RNUWU INIRD WDTAW WWATI TNWUU NWDDT DTNSN DUNNG RRAUR
 TIDAW GDUTW AUGWT GUTTW RWAGU ITADI NIUDN GDAIG GRGTG RAANU
 ANWWD DGUUG UDRNW GTSND DGTGA NNNAR IDGWR GTGDD TDGDG WDRGG
 GTUDD NUUDT TWIUT AIDWU RDRAR AINIG DTNWG AWDWU WGWDI RAANU
 TRWGW WTGUD WIADG UNRGG WINWT ATDIW AGWUW AGWTI RGTTR AGRNT
 NTRWG RNAIR WUNIN DGRDD ATUWR GWATU NNRUA DTWWA TGDRG RAAGT
 RIUIU IWUUR RINT ARNUG GRURW UUUGI NTINN RWIIN TGNND IURTD
 RWDNT IRIIU GDNTI INWUR AWWAW GUURU ANIAI ITAWI DUIWR RTURT
 ITNNW ADNAA TEDDU DADIT GUDUU TGUNW RWNDW GATRG AGNNT GRUNU
 + + + SK

8096 kHz, 21-12, 1400 UTC. Started at 1400z halfway its first message.

TNII NUTTI WNUTI WWGUT DDTDD AGNAA GNDAW DAUGR TRDWU DGUIW
 RTITN TNWNI TTTWN NWGAU RGRNA NNDDT GTNNA NNUDG DRIAG AGUTN
 WRTDI RARRA ITRIW DWNGA ARGGD AGRUG UUUUI ANGNW TANGW GAINU
 GAWID NITIA RRIGU WINII IIGWT DWWNW GUUUG RDNRR NAIU GAIUI
 GARWN UAIUU AGATA AIGDD IUAIG DGRWN IIARG UADIA ARNDW TGAIG
 GUNWI GARIT ADUNN INAAA WRIRR WWDGA IRNRW RGNTG WWITA NGAIR
 NGUDD DRWTD URDRG UUATI RAWRU NTTTT NARGU WTTUW NAADW RTDAT
 AUINA UURGD WUUNI DIAAA INIAI INIGU TGNGG NWGWT DTDIT IRITI
 GGTAU GAIRR RRGAI GUWAR TTGAR TINUR WAGWT RWNRW RAIRI WAWDA
 ADGGN IWTDU RARGU ARGWT DDWIA ADINN ANRGN IDRDU DAWT TNRTR
 UATDR AIGAT IIGUG URGAN NNAGT DNGIG IWNRN UDUID DATDD GIIGI
 IURIU RIUWW GRIGI TNDIA
 + + +

NIWUN NIWUN NIWUN NIWUN NIWUN = = =
 TAATI DDDWI UDTGI RGTNU DNAWN AWGDI UDGUW AWNDN AGGTW NTGAA
 RRIWD IINTU INWND NUNDW TRIRR NIIGR UNNRD TNTDG WNNGN TTGAW
 AIWNU DTANA ARAAG DANTA GAWDU DRDTW GRTGN IAUDT DRGUT IGD TG
 UUAUT NNWUG UNNGR DAIDG RRWTN DIWUA AADGI ITAUN WRARI AUDNA
 IAITR TUIIU ARNUU TTDAG GRD GW IATTW UTDUG GNUUN DN DIW DDDTD
 ADDR U WAGUA IDWNN GTWRA U TNRG TADUT DGNRI WNGGU WUDUD TGRWR
 RGDND ARUTT ANTTI TGUTU RUIRN DAATN IRTGI NTART ANRIT ADTII
 IGATD DNTW IRUWA NWNRR ADIRN NITUD AIGDR TGIWA ITNAG NITGN
 NITRI DGIGT IGT TT DUGIR AINUA ANTRW UUADA AAAUG ADDID AAADD
 GGUIT DAUNU UTDIT GIAAA GUUIN DTUIT AWTUN UTRND NAIAI DAGIU
 WDR TU RUATG GAAWD UGRAI GDDTU AGTIR GGTAR DTNUR DNRRR WGRWG
 DWIDT TTRWR AUNDG WNIND RATNI IRAAW DDANW WWID RAWTG UTIRA
 UARUT GNWGT NAWUA RUDGT GGGDU NADTN UWTGA ATNWG IWAAD UGTGR
 IAUAG GTWNG IUWIR UAUTD UTINN NGNRG UWNRA TDWNR GIIAA TRIUW
 ADARI IRRRD IUART GIDDA WIGDT DARAW UTIUD IRUDN WDDNT IGADN
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DATIN DATIN DATIN DATIN DATIN = = =
 RDTGT TNIRU TDUTW NRARI RRRND DIGWI TTTUA WDDRT ANAUI GNAUN
 IGUUT DRRNT TDIRT TRGDT UADWU AAUAI IARGW AGDAD RDGTN UWGID
 IDGRI TTIRU GUWAA ARAWI DATAU WANIU DIAUG RTDRI WDNTN IRDNG
 TUUWI UUNWU NGAWN UTTGN GWAGI AUIWN DIWWI GWITG ARUGD IWUGN
 GIIIW NNUUI IWUGR DGR TA DWAIG ITRDN IGUTN GWGNT NTIIR NWITU
 NGWIG GIRIN AWWUU AGUUI NTGNG GGTTG NDDDG DWUNN AATAD NDIGG
 TDWAA GNUNI URUTI ITUUT NWNAR UIIUT WGWAG GUDUD WWUDU RTUAT
 RRWTG IWAGI GGATN DWRWT TNUGN WIUGI IIUDI RRNAN NDGTN RWDIU
 UWATG NAAGT WAIUR INART IAGGI WTIRN TNNGU NUTNU IUTTW RWWDT
 GTRTN GINNR DADWG IRTDR GTGIR ATRGI TTTTR RADIR NAIIA RNUTG
 DNTUI WNWAN RUNAU GGNTD RGUIT NDGRG DTRGT IDGWW WAIUR NTDDD
 WNTRW NDINT RIDGW WUUTI UWUGA AGRRW WRNIN DWNTU IIWDD IANIG
 DUNG NDTUW RTDIW IRANW DDTWN DUNIR WGAND TTUDT DRUTU DIWUW
 AIGNT WWWDU GDTWG RUWTT RAINW ANUW UTURN TWIDG WTGGR NADNI
 DITRW NIWAD IDUDA TITWG ADN NW GRWRA GUNDT DDUDA RDNNA NGWDA
 + + + SK

8096 kHz, 26-12, 1354 UTC

AGUGA DNGNA UWNUN AGUGA DNGNA UWNUN AGUGA DNGNA UWNUN

AGUGA AGUGA AGUGA AGUGA AGUGA = = =
 GATNR ARRAR AIRUT AIDDR RTITI NDWUG TNGTW RRRN UIWWW ANDUG
 DWGTG DTWUG DRWRG DRIGT NAUIU WGGWD ARIDA TRUGT INUWI RDIDA
 WNITI NDDAN RDIUT UUAUA DGWGG DNAUT NUAGT GN TTU ITNDU UWIWN
 TNRUR ATRIG DAIUA WTANR RDDIU ATIDT GDDIW NINNG TATGA AAIUN
 NRURR TTNGT AGNTT DAWNU GIGAA IAIRG UTNII TDGAT WDNAG TDWUW
 TNRAW GDGNW IUUUU WDINT NUDIT RNGRD UITGT RTTTG RTTUR TDNTG
 NAWUN IAAWT GTTUU IITUA WDUAU NDNTR RRDWU WNWNU AWWTD WRNIU
 RGGN RIWUG UDIGR TTNTG UNITW ANWDR WRIWG WDUUW DDDDR NNUDW
 ADRRG NNNUR DWDWU RUNRN DIIIU DADDD IWTTI DNNNI WIWNT URDGN
 NAIAT AAGIG DRART UTUUT GNGDN NRDAR GGNRG TGTIG TUDUW WGDDD
 WNIDW DITUN RGUUG ANTUI UAITA DTDIU WUAWN DIRIG RIGRR INAAD
 DIAGR TTWDG DWAUW WIWAW NWWGU IWUWI NDWTD AUDWN UATTD DWWDU
 RNTUU GGUWD DGGAI NAUGI RNADN RITWA WAWDD TTWTG DWURA RGIDA
 NAGGN GAADU UNDUD TRIRA TGDAR RDGDA IGUAN WUGII ARGAT TTDRD
 TIUNW UADRR GANUD WUDWT ANTIT RWUIG NDIIG DNTAD IWAIR GUNRW
 + + +

DNGNA DNGNA DNGNA DNGNA DNGNA = = =
 GAUNG DUWWW DNNWT NIAGG URAWT ADRAI RUNGT DDRAU WGDWN UITTN
 TGRNN UTRTA AATTT RGUTI IIAWT WANDG ADGDG DTGNA WAAGG UINTU
 NUIAI IITGN NNDDU UGUUN TRDDR RRRTD AATAR AUUWD NNATD GWURT
 AIRRT UIAIG RRDRR WNUUR TRARU DGIUI TUGGN AARNT DTTIA UNWIR
 GTNTU WRTGT TTGUA GWTUT ATNAD IUATT DNIAD RTUGD INTGU UUANG
 AATTR GUGAD NIRRI DWARW UITTW RDUIW UDANT TUUNT DTTTW DDGDA
 RWDUW WRGGA IUUGR WTTND GTRWR IRWRI DWUIU TWNIA IDNGT WNIAT
 WRTNA AWAUG GGAWU AWUDG TADAD TIUND GUNGN UUIIW WDITW UNTWA
 UUDID WIRNU DWINU GIWAA RNADR URIAW GTGWA NTIWG UAUAD TWAIG
 TDWWU TGRUA IDTDI IUGDG TWUJU RTTRD INTNI AUDRG DRRWW ARDTN
 DNGWI IDWUG TIRUA AIWUR IARND TWWAU DGDW ITAUR TGWUW IWWID
 TGRAT UAANN NTNAN AWGND ARDAT NRARW ADATG WGRGR IUAGU INRIR
 RAIAG GDTIN GTNND TUTDR ADTGU RUDDD WIGAN GWDTI RUTTW TNINR
 ADDAI WIGGD TGIIU GATRT WTWUU AWWNA GIWAA RIGDI UWNTW URIDI
 GNWGG AWIWA GTTNI GDNIT DWUGA WNAWI AUGRN INGGT TWTTU TARNI
 + + +

UWNUN UWNUN UWNUN UWNUN UWNUN = = =
 TGDA RAUTD NUNRA WAGRG DUNUI UURRR IGRRU GDIIN UUUDW GNNUG
 RUIGW NRWDN TAGTA UUWU AGITW GIWII UIWTN DTRAG WRUTG RIUAG
 NATAR TRATD NRGUU WIIDG RRRUA TNWTI INNAR DRGDD NWNRT DURRR
 RTIWU WDWII GWNDA RRWIR AUNAG UTUIT GIUDN IRNDT RUATA TIUIU
 GIDWT TDNRT WTIAD NIAAT TARTA NUGNA DNDNG DUGRT WAUTA IRWRI
 ITRID GGWIR UTRIR WURNT WTIAW DTURI NRRRD UNUDA UIWUR RWIRA
 NWWIU ARNAG NTTIT IUIWI GANUD AWWNI WDAUN RTWTR ITDTR DRAAI
 DUGTU ARIIA WRTUW UGRGD RWUND NNDAI NNWWD RTING NGTAA AAGDD
 AATIA TTIIG WAIUT DRGW ARTIG WTADT IIDGN AUDWN RAUAI IDTNU
 ANRTW URGIG GIGTT DITNA NTWTD RGNIT NAUG IRDDN IAATN UDNA
 GTITT IRRII RGDII INDWU TADTW AADAU IIDDN GARAT AATDG NTTDA
 WUTAI GUUGN GGUNI NTGGR UDWUI DAUDR WGRII IIIAG WITDI IARGT
 GAUAW TIGGA ADRRG NTUIG TUTGN IWDUN RRWNI TIGDG IDWAI TWRRU
 WGDWT WUGIT UWGTI TRNWR TGGIA DWARA TTITA WAIIT NWDRN TDGAN
 DITAD WDGNN AUAGN URWWI DWAIW RRTWA TTWUN NIWRG NAWUW NINTW
 + + + SK

8096 kHz, 28-12, 1355 UTC

IRWRN GTGGA TUTAN IRWRN GTGGA TUTAN IRWRN GTGGA TUTAN

IRWRN IRWRN IRWRN IRWRN IRWRN = = =
 GAUGI UTGRN GIARI GGATW TDUUA DGADW AGTWD UIARA NUWAA RWANA
 NIDIN TRTDD IAAUT IUUWI LUDAD TRTWU DARIR INRIU WIINA DURWD
 DUADN UNTTR TADAN DGTDD RINWG ATIIA IUUTD RIDRI WNDGD TIWIG
 WUNG D TIIRT AWDWN IWRAU GTIIR RAWTR NARIT GRRW WTUWR UAWWN
 DDIRT NDDAD TDNND URNRD WIMGD AAUDT TUIUR TRINR RRAAD WAUTT
 NNGRG RAUUR UNUNA IRWDW UDGGN TINUR DWNUI RADND NRRII WWRRG
 URWAR GGTNI RMTIG RTUDG WWRAR GITIR TIURU RUWIW GIATG GADAW
 IGRRR TRDGR DWRNI RWURI GGDII IGGRW ARUWD TDDNR WAAGD UADWA
 UGANG WITDT WNRUU DWRNR RRIND TDTGN RNIDT TDRTN NAGRR GDNWI
 RAITI UDTWU RGDAN NTRIN DDIRT UIIAR ANNGI IUWIT RHATW NAAND
 TIDWW ANNIN TURWR WDRGT WGWWR UATGW NRRNW RIRNI INGAR DDDMT
 RUTRA WGTIR DDUNU IRTAA WIDTI DTTIR TWATW MITWR IWNIT NIDGD
 NUNNW IDDIU NTNGN RGRNG DARGT ITUAU URTNT GATDI UTATD GGNAT
 ITWUU ITTTR RAWWR DITAI NAGNG IWNTU NRRWN IDDNA ITWAN NURGU
 DNRUA GNDGT IDADN UGITI UAIWG DUAWG RDIWR DAURN WTDDD IWTAR
 + + +

GTGGA GTGGA GTGGA GTGGA GTGGA = = =
IUDND RUTTG UNARA TNGAA DRANA NAIAM TNTUD TIIGG DUTTU RIDAT
GDNWN TUWTT AGNWI TWTTI RTIDT WARAU AGTRU WDTRR TUIIA TRDUU
RIIRI RUNNU WRNAI TDRDR IGIGN GWRAA HAAIT IRDDR UNINI NTGNW
WAAAR RDTWI GRIWT GAATT TDWGI GWNAA ITNDG NURTN WTINN WNANU
UTANU URIWU TRTGW ARDUU ADANI NAGUU RDIAT IAWAN ITTIA RTAAI
WGNUA GTTUU NRTGT ARTUD GGNWA RGANG TNAII TIWII RAGRI DDUDR
NNGGR TWGWG URNNG NDTUA DDNAT NDRID GATDU WTTWU RNIRG GDANT
GTDUU UUNUR TDRTN AAWUT DNTGA INNDI UGGRU TTNID ITDTI IDGDT
NNTNG DIGWI DAUGG AUUNT WNDNU RUUIU RNWDG DNRUW NGNRG AAWDT
RIAUD DNNRW WAGGN TDGGW TNARW WIWUI NUIDI RNRWN TNIRN GRNIA
UAUAI RAUMT TUDUN GIDGT RGNDW GUITN UNIRD WNDUW GGITT NDNAT
AWWUT GUIIA IUGWN UANWG WIDWW TIGGG RTWUI WNTWA RGUDT RNWTT
GTTWR AANUG DIWGD NIRDA NGGDT ITAAA GUUDI INNUA WGDWN IIANI
WANUN NTIDD AAUTT ADAAG GTDID AAWWD GGDRR AGWIW DNAID TIDGR
RUTGW RNWGN DRRDI ANTWW NDDUD GRDGU INRII TIWDT IADTI WDTIT
+ + +

TUTAN TUTAN TUTAN TUTAN TUTAN = = =
WIGTU WRUUI TNUIT RDTDD DUWNA AARRT GWATG TWRNN NWINR NUNAD
AAWND DWAUW IWDAN RDGNI UDNDU DDDII UIANW NURWN TAAGG UWWRD
TNTDW UTTID ARTAW WRWWI TRRAW UTDW IADRW RDRDR AGDRW IWDNW
DIWWD ARWWI ATUAI RRTDI GDIUD IUUIG DRNIR IATUA TWADR ITIGW
AWGRG RGRGA RGUUR AUAAI UUIIT WRWUI UIGNT ARNWD RTNAG AGGGD
RGUWN IIGIG IWIAG TRIUT GUITG WAWDA RWDWD ARIII DIWTI GINGR
WRUGU ITUNU IRNNW IGAAA RNADU TRADR UANUD TTGWT IDDOI UNAD
WINWR WAINA ITWDT GGIUG TTNDI NUTNT AATTR AGNAD DAUIN WGRAW
WRWNI NTTTR WUUUA WDGII ATWNT WTAUU TTIRA RTTWI GTUNG WWTG
RTTGI DNWDW TIWUW DAWDG TUUUA INWAW UAUNN WAWRW IIAGD WIRWD
NGRRR AAADN TITTT WWDNG DIARG NNWUT NWTNA NWAGD AWRNT GWWII
NNDIU RTRAI TGRTU DAIWD DIRDN GNNTR RWDUD TWGRU IWTDR IIWNI
AUDGR AANIG AATND DITGN WUDNI WAARD AGUGI WDWTD IATRU RRITI
RDGNU GNANU RNGWN NTUUU TRIDW IIRWD AWDNU NAIGG GUNTA DNUAG
ARGTW UDGGA NIITW AWRUI AAGIG ARRG IRTNGD INWWI RATIW GTRIN
+ + + SK

M12

13371/11571/10271 kHz, 03-12, 1400/1420/1440 UTC

352 352 352 1 413 153 413 153
99195 82535 27638 74168 54615 69749 24895 74259 85760 39972
14444 06227 34830 59687 90542 54090 89331 49360 79115 97902
96621 92319 48461 84630 40969 86729 57833 72778 78469 22439
39646 82047 78884 72570 00231 54478 34592 37175 13868 72698
77753 70847 87846 52770 10927 37487 07258 32857 21565 61725
59734 57811 53201 72378 47576 96765 74272 25784 00989 84086
24810 90246 26516 21286 86175 01314 20286 90576 12051 64321
31207 13004 44434 64292 96391 98319 47402 64953 71153 54257
91219 54428 11422 85399 68792 99573 71143 89971 40160 65852
76230 09414 39601 71050 81015 73837 38087 39996 49805 20162
73390 68450 59468 79009 03016 05195 03115 02315 62278 63372
98877 00295 91749 00128 41241 41224 07124 52096 28144 26815
13078 26154 22565 49342 48116 26373 21420 03143 89800 80114
62187 26193 97770 97322 80235 26665 45752 22146 22153 99297
78146 56989 59875 99889 03948 95701 34690 16244 40134 64009
21071 86790 06242 000 000

8047/6802/5788 kHz, 03-12, 1800/1820/1840 UTC

463 463 463 1 6421 93 6421 93
04480 80967 02694 62198 06109 47807 07596 61839 95686 10250
43876 26913 62234 24445 84790 63297 79544 31675 75568 20915
87512 38999 02871 94301 17313 39955 95102 07935 34802 97523
11850 32890 69559 42068 48584 86431 17791 24933 73910 09082
05799 95718 46385 27046 99948 36383 49063 66458 29055 22133
20803 78235 04515 50890 87669 11167 96925 78036 30809 27807
70437 15103 84877 32878 54357 67451 66193 61774 78869 80339
14253 65988 47846 51489 31800 61038 51485 65617 13353 49283
25670 07728 87757 26497 87412 73181 92877 24466 01125 61996
36897 38374 77456 000 000

10343/9264/8116 kHz, 06-12, 1900/1920/1940 UTC

124 124 124 1 4425 120 4425 120
01600 68635 06035 42346 28005 28345 78259 73428 38425 89925
50645 51302 24111 81308 77346 98393 14756 86988 12094 41077
14211 25344 25656 50810 65652 41472 41864 76302 86753 67845
47628 52172 49959 13193 01948 64772 78038 86080 44942 92633
23021 08508 06100 35786 54184 80113 49396 34299 85118 60789
41253 81963 58195 38195 27952 55277 14581 05759 49123 09112
44489 30682 03338 56095 28312 82547 37021 06616 67710 46469
58247 51077 30235 96172 91435 08917 47558 75399 28435 07947
64072 67194 36693 86749 85866 44523 21392 45208 39918 12829
27360 39816 94785 49616 56371 70637 03209 22012 68025 02773
28219 38323 19174 43855 29474 25851 24615 10034 57000 59368
29408 03965 91318 80033 42606 28963 32010 87245 14338 64567
000 000

12217/11517/10317 kHz, 07-12, 1310/1330/1350 UTC

253 253 253 1 7366 77 7366 77
96033 73886 72586 99408 81374 51046 40696 33939 50263 21770
92174 31584 77133 98768 80725 15917 32147 57824 91723 29703
03841 10383 30539 99246 23391 81604 34123 57026 41499 73368
75111 13280 75542 39071 46946 16809 85613 47548 59682 74692
91670 99306 80482 36151 61044 87518 46654 34788 70170 84808
07269 16114 58825 28079 59854 12750 84894 32014 32431 27238
60558 73359 10528 18827 33358 88524 59044 51049 44416 77046
29135 67962 85158 87897 78212 53502 85319 000 000

5832/6832/7732 kHz, 07-12/08-12, 2100/2120/2140 UTC

887 887 887 1 2531 105 2531 105
46219 87717 42627 36419 23281 82416 23648 88662 57557 60741
22940 44628 61213 12681 04555 43161 70891 95989 09877 51472
79433 35506 40451 37814 34360 44595 02854 85813 57487 54286
98810 17402 99469 66288 30738 99041 93025 13337 89731 53509
40861 18769 84754 68123 60595 50495 40644 42537 26404 18076
11938 27760 10478 88804 86180 93535 67659 73306 03534 20755
20306 70081 05467 10204 16629 30856 86563 26502 58042 01212
05802 04262 76118 37527 80904 88470 77080 33427 36436 82429
38233 90263 65414 22571 54622 74687 80880 02603 04609 11841
65217 57726 03276 68111 69272 11765 65302 23286 25735 33078
36851 70562 56123 28578 94116 000 000

5784/7584/9184 kHz, 08-12, 0600/0620/0640 UTC

751 751 751 1 8305 91 8305 91
79326 47574 72641 65508 19416 02194 96377 66031 03566 16411
56833 32953 76402 17852 86281 35895 87860 93741 38062 15288
84256 97168 56603 36775 64275 38118 06913 04231 06429 91371
96579 43991 15105 74155 59090 26303 95671 52998 15794 78276
67907 37711 41640 47529 01749 00513 59181 54128 62181 46924
60503 89397 29230 47640 13845 39620 00135 72741 55265 35916
00858 78344 08302 77674 98917 50642 01358 28490 07746 17640
63694 40100 68058 17475 70932 22440 73465 32918 46784 84739
28446 09512 45760 42886 64193 84530 50712 89621 09831 98281
09161 000 000

8047/6802/5788 kHz, 10-12, 1800/1820/1840 UTC

463 463 463 1 585 111 585 111
64800 67584 80269 31910 19543 22631 29440 88135 25305 95406
58680 55355 45904 76605 20171 17720 28096 51182 07843 32290
58835 81769 25156 67110 47642 35153 69078 44376 45692 16370
58012 55475 15523 21930 22241 78350 04610 42641 93596 29010
83836 25241 99987 14907 57224 31381 90786 71243 02930 11966
10730 91867 55858 27224 52612 39177 63527 88827 18274 95924
32227 11762 16175 25670 19912 30682 21508 98194 99661 90583
45354 35023 19320 04887 29657 67012 98268 64427 79987 61583
42704 19026 28171 64516 37320 24947 36318 25303 03382 17721
30494 19246 19045 44385 01824 20451 41255 83944 36426 97658
04296 33518 76642 98540 80867 37546 26820 08292 12896 28996
21119 000 000

14769/16269/18169 kHz, 13-12/16-12, 1010/1030/1050 UTC

721 721 721 1 570 115 570 115
94298 79569 41448 41593 15409 32052 22271 91733 16019 15971
61254 36083 01813 22850 76804 72471 84824 03987 60052 80324
25634 98587 72856 92343 84415 40746 65169 62690 42677 61420
32225 80530 26640 47459 05582 24660 38101 15549 86875 79393
30462 35989 42127 83796 31767 56222 87396 52119 24825 68269
27924 74802 19885 17242 05259 35614 22968 01673 98141 64938
90806 65232 56735 87588 37590 09761 86649 74650 80620 38576
67298 19550 77424 63433 36141 64467 81868 61592 37616 99471
13475 14066 51803 62176 10059 13538 14974 83908 51306 11782
86690 21678 84800 85546 28890 50247 24943 15000 78658 18685
69881 52834 49673 57847 00091 24641 10221 85195 62835 85276
57855 71489 86043 18543 82580 000 000

10343/9264/8116 kHz, 13-12, 1900/1920/1940 UTC

124 124 124 1 6473 125 6473 125
66602 25591 70047 85892 80593 56147 32706 75517 92970 65755
04973 97860 18001 41110 83002 48107 09559 07559 79233 84544
10530 27002 28913 55862 78504 95392 95906 13141 91614 62678
99038 29747 11743 90810 76463 25371 83079 01179 35891 25550
35326 95515 86153 72725 44353 51670 04671 30481 14582 00013
99016 09404 24902 31305 98665 60199 95376 91461 84776 50791
60811 55072 77876 95289 10185 87304 63552 96079 81263 21620
03491 62018 80058 34797 00130 14018 59765 29699 84461 88284
77917 82595 71614 78497 46649 32918 10008 42766 31048 32181
13576 05447 81664 21631 54841 73842 41170 74972 66080 66038
26155 52798 95637 79617 64711 96609 30172 86410 21394 77171
46952 92544 95002 80008 63796 25055 28033 13595 67257 75293
49557 55646 16998 58972 49018 000 000

13371/11571/10271 kHz, 17-12/19-12, 1400/1420/1440 UTC

352 352 352 1 621 147 621 147
52646 43436 28939 01327 58806 67663 65206 25087 11528 81897
81550 88258 67343 27656 16828 02431 98056 72687 59656 33057
35337 84022 28543 37860 19042 03451 11413 24607 55686 56074
18667 55981 23649 32296 81964 92421 31479 69478 92209 44034
23316 71366 07863 20355 44852 87500 79874 16685 58965 65055
46145 92091 94866 79045 74578 48865 65770 18136 47288 91856
64769 41427 03377 83860 36930 91959 68064 58887 97569 08595
38622 72996 32611 10575 78580 20102 33620 47243 07402 05060
57436 90018 16015 90180 57249 28832 74185 85255 41608 55413
63979 11444 60831 64250 84194 97405 41442 02229 86449 35338
28915 41796 50399 20364 34191 02197 31334 47623 21765 35609
11195 89051 42287 85815 28186 50762 43354 49964 95450 87171
65993 16919 56765 54394 90123 23692 20505 94283 83780 87085
12054 17068 09867 00238 11286 07839 91353 84122 37505 06986
79135 61434 78219 41019 90767 04209 05252 000 000

8047/6802/5788 kHz, 17-12, 1800/1820/1840 UTC

463 463 463 1 5928 92 5928 92
74421 66356 05990 40285 52727 35096 84184 42169 38013 33547
79886 37944 91766 81381 80819 25995 65781 66138 32531 41525
22994 64992 25140 41590 15295 10564 94861 61576 82947 93801
14810 59300 20095 19887 75683 02730 69586 93054 05679 01318
72637 96886 68141 87982 05691 05706 24648 28271 04417 30702
41085 61780 32112 11584 01479 84997 43807 33829 80233 13395
71506 86287 29249 83844 62771 40342 01143 90327 02705 66768
47347 27025 69851 98168 96664 76258 86282 10425 42982 40366
40361 16879 22566 27087 01074 98217 20694 49918 77856 59968
71488 98952 000 000

5312/4512/4012 kHz, 19-12, 2200/2220/2240 UTC

305 350 350 1 255 77 255 77
78132 12884 94740 49755 87354 65191 86533 83063 94735 07968
38917 56494 51939 24363 49259 61577 12994 40405 00484 65981
95484 41046 46494 93136 22055 37780 17150 98388 79655 89604
99471 43630 87901 86059 37774 92091 33422 70023 34313 53694
71662 91699 86462 13203 74185 93312 29385 69665 57109 90237
37537 18483 75068 91621 32968 79620 82516 97309 33274 46718
14570 41265 29976 39108 85032 50770 54746 70795 35082 02708
88316 08957 47270 48903 68078 23436 12688 000 000

10343/9264/8116 kHz, 1900/1920/1940 UTC

124 124 124 1 7726 121 7726 121
46057 91695 54500 49558 72935 13716 82343 68791 35598 21454
25374 94261 83395 23065 34361 59300 92963 15555 44401 38164
31068 60233 28835 10925 43201 37215 46853 92430 31599 27752
36119 49540 57601 14834 07147 32169 15900 77482 00241 32671
54233 15046 15717 45761 66233 33726 20085 53599 52260 03100
78108 77906 38557 89335 21413 35568 16671 18720 91977 65594
28106 11291 70591 59066 44642 54524 27592 34060 51812 66461
50120 80402 48026 82541 37345 94982 24274 21116 78157 74524
81200 69682 37807 20098 06381 62266 26939 66467 32751 74537
85725 61701 76517 02968 19233 10149 29104 78530 98196 25969
69240 99575 07311 59051 31553 11307 39001 62839 42837 29804
10567 85755 10134 04923 73247 35029 57051 32195 72266 36129
63428 000 000

5832/6832/7732 kHz, 21-12/22-12, 2100/2120/2140 UTC

887 887 887 1 566 113 566 113
09946 12169 87204 56257 75685 63688 84763 38528 87399 93205
39191 69271 99510 27369 94943 08041 46947 48723 58811 51184
57311 76188 44456 90998 15252 42815 95641 76119 10826 01885
42153 71946 19636 79742 06709 17393 75671 66165 27139 56689
12688 24160 37784 57507 34829 03663 47955 36250 95343 77372
03037 13747 00660 16891 27622 58446 97581 94938 94292 75482
80367 41854 81271 19884 77532 10513 80703 32847 23994 52598
81771 53130 86528 17621 69106 05566 30757 12257 27643 94970
44584 36382 50210 34674 41636 14115 34013 41939 02549 42417
38487 60002 66230 74540 78217 00062 39220 22501 44024 66190
53211 31885 41088 74749 40218 11738 20741 83110 29418 42913
08688 61220 75808 000 000

5784/7584/9184 kHz, 22-12, 0600/0620/0640 UTC

751 751 751 1 255 77 255 77
78132 12884 94740 49755 87354 65191 86533 83063 94735 07968
38917 56494 51939 24363 49259 61577 12994 40405 00484 65981
95484 41046 46394 93136 22055 37780 17150 98388 79655 89604
99471 43630 87091 86059 37774 92091 33422 70023 34313 53694
71662 91699 86462 13203 74185 93312 29385 69665 57109 90237
37536 18483 75068 91621 32968 79620 82516 97309 33274 46718
14570 41265 29976 39108 85032 50770 54746 70795 35082 02708
88316 08957 47270 48903 68078 23436 12688 000 000

8047/6802/5788 kHz, 24-12, 1800/1820/1840 UTC

463 463 463 1 3831 100 3831 100
48055 01571 76992 62411 51733 42202 71251 34268 71635 64230
31946 49843 99966 25050 71991 19054 74089 96138 85167 21845
23034 13025 25120 78053 01394 37800 46289 46275 11935 05256
87732 10235 62185 90718 01220 37832 94373 43995 30143 67610
13187 99671 87356 51179 67310 08678 20309 78761 04500 33683
60777 44759 13656 55367 17845 29588 16273 48764 94694 09186
62298 02629 61992 98978 92026 01745 25720 16571 20839 62973
49604 43837 40383 41516 35600 36350 93596 02719 43923 94317
63010 99560 73596 33271 77852 67501 35719 47026 06286 82654
16603 36731 50687 35661 05004 54218 42793 99668 12039 41713
000 000

10343/9264/8116 kHz, 24-12, 2000/2020/2040 UTC

124 124 124 1 1871 108 1871 108
81553 94676 10051 81449 33879 83177 80962 09790 83590 32761
39442 37604 04115 59078 54390 81866 36050 49200 33661 20192
83513 14413 17171 37461 24333 76421 22977 59859 08069 68088
68682 52166 49251 89445 48085 51330 87083 74713 26460 30399
25792 50579 05040 28045 71675 22778 95897 34437 63356 16162
04958 85819 22689 81952 79239 56744 00223 47736 71946 67780
95211 97990 08872 06733 35588 86505 63316 95607 14594 08731
14841 64408 88868 00743 28248 53419 90644 04675 22504 07908
78750 38266 80826 12653 50278 21622 57105 66210 19283 46835
14566 68857 05506 01295 74363 24604 17968 50178 69771 16518
49594 58086 41182 87011 22716 39857 14861 75155 000 000

12217/11517/10317 kHz, 26-12/28-12, 1310/1330/1350 UTC

253 253 253 1 9544 91 9544 91
 95072 49177 35936 05321 05405 56327 85486 38501 28370 41508
 19087 89708 03451 48417 10126 19335 35547 31685 32737 65059
 27407 76401 59608 21853 20233 39331 07786 90501 35494 74278
 07420 89781 24851 65871 39271 55910 71652 82800 07967 40225
 74302 71232 74102 15262 08723 80076 22415 74501 25555 35352
 44670 90985 84292 32048 46481 98187 58252 15293 62818 73006
 66150 77947 70167 69800 32303 82687 35082 79524 29961 82141
 78216 52800 36623 44448 66897 13319 62129 52378 04047 45610
 17363 91605 55671 35591 24209 45155 00422 90781 23701 60452
 83965 000 000

14769/16269/18169 kHz, 27-12/30-12, 1010/1030/1050 UTC

721 721 721 1 363 175 363 175
 89028 58073 91518 32672 29596 76619 25190 14206 25693 23676
 05495 72161 75907 96257 09704 80148 06425 09377 83856 64242
 28457 77225 88383 49403 18647 09801 78084 90543 39725 50781
 31244 71830 01502 35307 92366 23840 64515 98405 98765 21677
 66662 04431 80636 74450 34153 20228 22281 85503 78412 32255
 60541 70909 24203 93204 75928 96488 97170 85397 34177 28175
 88771 71199 60126 11935 67212 40596 37987 00802 77308 37339
 78351 06117 84665 24211 13613 56010 00286 67339 65104 48849
 74085 57543 01602 79576 49161 14944 22215 72892 68663 99527
 76873 33511 17768 85354 00679 88052 30324 60161 11832 95792
 83889 56413 31657 37552 33917 84923 75355 45620 99379 75179
 75111 50002 85648 33927 28701 27961 93423 45594 58154 71619
 41376 21770 07387 21514 56151 00378 07879 14448 43291 87033
 01466 94802 90555 92968 02349 28007 50075 90796 09092 10344
 56988 99328 76327 18656 49379 10362 79288 70627 12631 45570
 65655 72188 67610 40623 55711 21125 71017 94487 29861 17585
 65072 06392 74514 48316 80173 75429 40269 01178 72666 70071
 85951 05017 35711 28424 57953 000 000

10343/9264/8116 kHz, 27-12, 1900/1920/1940 UTC

124 124 124 1 5455 116 5455 116
 95434 22083 11103 80710 34632 85283 34910 37456 02852 71160
 87294 93366 57012 65645 05372 55004 07673 31639 41143 35138
 24699 66456 25652 01418 46898 52761 03491 15313 58656 13752
 70330 64073 29450 02892 63999 71322 40675 70032 73338 54397
 27911 96269 59438 10156 98597 99602 09091 36089 11594 81058
 65286 94640 82015 65761 77106 94109 39412 85248 81567 62759
 74888 77199 75634 43118 13662 32961 62066 42551 11526 39196
 12784 19459 47761 31654 67248 13847 85270 74401 14257 60925
 59145 34396 56579 00551 85766 61262 27131 27865 29104 28170
 84953 00404 99655 36864 81556 75412 50304 05982 16124 02264
 41401 36685 76078 75516 46826 11548 85650 54894 82388 26672
 21117 89922 65320 49047 60220 93833 000 000

M14**18041 kHz, 03-12, 0500 UTC**

952 780 780 50 50 = =
 54239 26017 83679 22615 83974 90104 31843 55789 75742 21361
 27458 16760 26222 57648 07171 00748 43492 81726 71577 19690
 07039 65026 22813 84247 45044 97834 34279 46156 14892 35614
 00922 43412 97846 16098 43528 15473 43817 26899 65459 80625
 27164 28272 85255 93031 99477 60756 93569 20624 20624 92355
 = = 780 780 50 50 00000

18041 kHz, 07-12, 0500 UTC

952 361 361 60 60 = =
60940 53771 14715 69516 49632 84201 69199 91015 89513 80597
11416 79732 03601 15140 62782 20369 78451 10938 65386 31059
18197 30893 20044 22400 83417 90878 45936 64389 69584 70668
29014 97210 04733 21059 51365 46800 71063 90622 18719 31143
80154 20527 28291 68223 56475 80853 44141 21577 08893 46865
05163 81004 74371 49612 80949 03847 27158 01621 57454 49056
= = 361 361 60 60 00000

4730 kHz, 08-12, 0808 UTC, i.p.**4650 kHz, 08-12, 0900 UTC**

523 523 523 00000 followed by a message
903 903 43 43 = =
78142 35271 89356 78452 90451 21563 89241 09351 47241 63890
34178 64378 25179 64285 66361 78152 36196 25860 17561 46209
77630 47197 56306 78936 45179 74281 64709 89361 72254 16498
37813 54720 63190 73891 04672 14278 43619 90461 72357 89156
26713 33678 90351
= = 903 903 43 43 00000

18041 kHz, 10-12, 0500 UTC

952 708 708 55 55 = =
97469 45640 01773 01330 31119 52704 11929 30098 83940 56941
09830 83562 72906 19264 55290 12036 80803 84728 04231 23322
62643 83358 56550 40819 29915 20130 49796 90616 79847 90050
78322 16046 61885 79280 42628 43102 98553 38217 58547 45182
02911 37500 81007 80581 59768 42854 22009 01179 62863 69724
67542 55746 25183 03632 23113 = = 708 708 55 55 00000

18041 kHz, 15-12, 0500 UTC

952 613 613 50 50 = =
83042 62992 24804 17056 83672 15433 52102 72292 19889 28213
32218 42523 62156 09495 60137 48548 18859 98049 88964 27153
05238 01700 90899 79752 05398 01104 44886 54347 00818 86045
86839 40460 63798 16448 83427 81755 39295 25262 15313 36016
63562 05458 80811 37175 93054 48270 55893 39082 42019 24905
= = 613 613 50 50 00000

4636 kHz, 11-12, 1820 UTC

186 903 903 43 43 = =
78142 35271 89356 78452 90451 21563 89241 09351 47241 63890
34178 64378 25179 64285 66361 78152 36196 25860 17561 46209
77630 47197 56306 78936 45179 74281 64709 89361 72254 16498
37813 54720 63190 73891 04672 14278 43619 90461 72357 89156
26713 33678 90351
= = 903 903 43 43 00000

4761 kHz, 12-12, 1900 UTC: 748 (R2)**4761 kHz, 12-12, 1920 UTC**

748 903 903 43 43 = =
78142 35271 89356 78452 90451 21563 89241 09351 47241 63890
34178 64378 25179 64285 66361 78152 36196 25860 17561 46209
77630 47197 56306 78936 45179 74281 64709 89361 72254 16498
37813 54720 63190 73891 04672 14278 43619 90461 72357 89156
26713 33678 90351
= = 903 903 43 43 00000

4730/4650 kHz, 15-12, 0800/0900 UTC

523 752 752 44 44 = =
67145 36289 90561 73521 69015 66351 74891 04672 38176 45319
87451 62387 79567 14263 75623 90745 27184 45271 06457 83512
44781 32904 16478 56321 43672 89342 56314 78462 16723 80967
46231 78452 35267 85634 22784 89453 62451 74512 34278 95367
34156 75352 11453 90674
= = 752 752 44 44 00000

18041 kHz, 17-12, 0500 UTC

952 630 630 55 55 = =
66929 39465 05467 02403 98330 42138 46686 45348 85071 74876
00370 37847 38588 50593 84768 14597 24531 33362 74327 93203
32856 57600 39348 91262 56988 92660 12706 78700 49266 88775
63309 63799 44829 65281 80978 36358 71165 27066 02442 16417
85477 20183 33128 81983 07078 62553 44457 74203 36985 10709
51291 03410 81915 48507 99266
= = 630 630 55 55 00000

18041 kHz, 18-12, 0500 UTC

952 871 871 50 50 = =
12885 16820 91932 17153 78986 28932 18216 65780 51031 48066
80219 66347 01050 06231 72233 36572 23948 84564 08037 60756
93257 85869 52288 90486 83402 39651 14514 58331 56893 31880
66629 09197 39911 76639 69937 79065 34701 71852 22534 75772
42225 06289 63059 41521 93502 10017 91740 01832 13080 65509
= = 871 871 50 50 0000

18041 kHz, 19-12, 0500 UTC

952 463 463 55 55 = =
69786 13522 00198 26228 07941 40846 84720 14043 01454 22696
75838 31206 56370 48934 96074 31422 21658 41624 16857 52365
63398 94723 00720 45459 07432 56058 54939 62782 67645 37525
26278 49544 02098 64449 91528 15566 64159 00040 23549 84195
40857 05883 37472 42107 95624 24405 46779 38421 57620 94251
83922 06564 24826 34504 65188
= = 463 463 55 55 00000

18041 kHz, 21-12, 0500 UTC

952 430 430 60 60 = =
97484 58131 44423 56120 65645 42610 69869 21957 04557 69304
81503 58355 14686 45698 17506 34993 13347 77967 81775 11487
74173 87085 18220 77563 71764 50812 14437 40222 61196 19992
76970 68786 47084 82612 45349 33824 21879 74055 37072 00835
78095 56967 40744 64669 24151 19206 99540 35612 58502 63289
52189 13049 81776 85779 23571 07686 51570 70054 82794 98224
= = 430 430 60 60 00000

4730/4650 kHz, 22-12, 0800/0900 UTC

532 632 632 43 43 = =
67134 78245 89034 56327 85631 90563 45289 90570 06364 16389
35178 63891 78356 37452 83409 64381 45331 27481 92567 34109
74381 53289 01462 73827 14629 99451 57389 46190 53278 64381
78351 34289 96357 22890 46198 43681 99451 78923 64278 89043
23145 56341 67341
= = 632 632 43 43 00000

18041 kHz, 25-12, 0500 UTC

952 373 373 50 50 = =

55690 09766 55240 21487 89124 44401 06645 74253 54609 94836
47613 91699 48132 10227 44986 88384 19224 96889 98686 80594
07693 20741 47645 84729 79289 04359 48865 81399 89984 67113
71836 56199 33541 81804 75446 53065 52082 46232 59620 01179
14333 93158 08836 01331 91224 87072 69736 82708 83546 81218
= = 373 373 50 50 00000

4730 kHz, 29-12, 0804 UTC. Late start

523 (57 secs silence)

78153 46238 90451 67231 73451 22567 90461 57342 33513 89467
22563 78135 42673 16389 04613 77356 45124 89631 53091 53781
35190 67342 16429 80561 33146 89451 26139 74902 39462 42671
05613 25378 10945 23672 12631 90356 26143 67351 80933 54178
90351 26481 45123
= = 348 348 43 43 00000

4650 kHz, 29-12, 0900 UTC

523 48 43 43 = =

78153 46238 90451 67231 73451 22567 90461 57342 33513 89467
22563 78135 42673 16389 04613 77356 45124 89631 53091 53781
35190 67342 16429 80561 33146 89451 26139 74902 42671 39462
05613 25378 10945 23672 12631 90356 26143 67351 80933 54178
90351 26481 45123
= = 348 348 43 43 000

M23

5345 kHz, 01-12, 1620 UTC 111 (R15)
5345 kHz, 09-12, 1620 UTC 111 (R10)
5345 kHz, 12-12, 1620 UTC 111 (R10)
5345 kHz, 14-12, 1630 UTC i.p. 111 (R)

M51b

3881 kHz, 09-12, 1544 UTC, CW, i.p.

MXSUH */<SK>., NCDJE LGPTO BCEYG CXAVQ NBMTI PJLYO BVDYE SQAIIH /*.,' JDUEN 20589 VXBSG VXSHE UHKTF MVNBR IHGKF BCFGH LMGKT
QAAED ASZXW VBRYT MBKJT PLROI QESWF 58903 VCDSH ?<SK>.,' QWAEV MBNGJ FGDHQ ZXASQ KBFHR RTYEU CXZVB MNFHHG VJ568 NXAHW
/. K*' LKAGH ORUTI QEWRS BCDVS MKHJU ZSAWQ CVEYR POIUY 25821 VXSJA *,'./ QWAES NCBFG PEYRH BDFSG ADSFW MBNGH LKBXC RYFHB
65489 BSHLK '*?., DKRIT VBFGR XCZDW LKUER QWAEW CVDFE MVNGJ RUDHE 65987 NWPOE ?.//? FBEEB XCDENE SHDJE KEJRY CBDNM DD AJ
LKEID XVDFW 2T O367 SJWYE * 9<SK>., JHGJL CAPDK MDNRB QWADE XJSEI LFNVE ASQPX LPOSN 45280 KDSUE .<SK>'?. LGTOR VDDEU QRSGR
ZSLCX MDEYR VLRJF QUDGJ MCRJD 21036 BZAWU .,?'<SK> PDLEO ADTRW FJFKR KBDBD VLTPO SHSHX BCEYS AWLDO .,*/ MCJIF 25639 LHPTO
QEAXS CBSJS WLDOE LBPNI RAHAY CBCUE FFADQ 01258 MXSUH */<SK>., NCDJE LGPTO BCEYG CXAVQ NBMTI PJLYO BVDYE SQAIIH /*.,' JDUEN
20589 VXBSG VXSHE UHKTF MVNBR CBHSJ WIEUD XSKLD VNMDU AQSKD XZBNC PEOLF CDEIR CNDJA 35089 WSHWY .,?/=LDKFE SWQOA
XNSDJ CXNSI DWOLA DSPOW XSIRU WUFJD .,*?<SK> VDFWY 52301 AQISJ XBDGW DIEOA MCNSA CMDPO VLDKW CNQMI CMSNR 54023
MCKWP .,<SK>' / CLXSP EURJF VNDHS WKDJU CNVMD EKDLA ZXWOD LCMDJ 19358 XAYFJ ?.,*' ZSIWU DJFNE MCNDJ SQKGF HCBEP CVSWU
FKEIH CNVEI 49832 KGIRU .,?/<AR> SAJQC NCDJF BSJAQ XZLSP SIWJD BCNSU LVFKO SQPEU 23684 KFUWN ./<SK>'* HCDJW NCSKW KSWOD
BCNDJ NCDHE LPDOE NCHDF ZAIQU 20369 HDEUM .,?/=GDYWU NBDLP YDHJA BHC GF DUEJS QKALP MQLOI RTDHS WVXCD FSGQU JQKAO
LQMNJ DBXVF WNSJQ AUJTG HBCVD 45278 10945 SCXVN QNHJA ZUJDI QKALP MLIKH UJHNB CGDTE SGQTA ZGWJQ AJQKL 23492 HBCGD
XNWQJ SDZOL APMQJ HGBCV KQLAO UJFGC XVDTR 45378 WBDGY 68642 DHBXJ QNJAK LWNQI UJDOL IKHBV FG CUR SJNWK QKLAM PLATF
RUDGC XVWSH QNBHJ DKJKI XGDHS WHNDK QKAUI RTDFS XNHJD KJHGH QKLAM LPWOR DFZHW XVCHS DUJQK YHWHW etc. etc.

M89 - Chinese military

3543 kHz, 01-12, 1606 UTC

R RPT K
R AS R R AT EEEEE R RPT K
K K K
R R RPT EEEEE R RPT K (Other station N/H on this frequency)
R 06W TATU TATU =
R RPT 16W NATD NATD K (Cont'd to repeat groups)
R QSB QSY 41
R QSB QSY HR 41 QSB QSY HR 41
VVV
R QSB QSY 51 QSB QSY 51
VVV (x3)
MSG GA K
GA K
R MSG GA K

5037 01-12, 0901 UTC

R QSA 2 K
R QSA 2 K (Both stations on this frequency)
R IEC = 57.5 AR K (Normally associated with Exercise traffic)
R IEC = AR K
HR WK NR 105 K
R HR WK NR 41.. K
R HR F GA K
GA
FFF F NR 7283/EK EEEE
NR 7283/EX 1702 RMKS 0221 TO 0160 K
GA
= NJZ8.. G EEEEE = = NJZ8/Q.63 AR
= = NJZ8/QR63 AR K
R QSL 1704 K
R GA K
R FF NR 0.283/EX 1704 RMKS 0160 TO 0221 K
R GA K
R = .J.8/QR6. AR
= NJZ8/QR63 AR
= NJZ8/QR63 AR K
R QSL 1705 K
R HR MSG GA K
R GA
MSG NR 7284 CK 400 45 1201 1700 RMKS 0221 TO 0160 K
R GA
R R = = U6N7 6T3U NTAU TA75 67TN AU53 4A56 3AD4 A5UN 7D54 NUDA NDT3 67UA 6753 (Cont'd)

5069 kHz, 01-12, 0845 UTC

R GA K
R GA K
R R QSL 1653 K
HR MSG NR 002 CK 99 97 1201 1653 RMKS 8835 TO 0333 K
R = AS
= = = NUU5 NU37 NDA6 4UD7 7A43 TAAN 7U53 DT7T TT44 TTTA U537 T74D (Cont'd)
AR K K
R R HR WK NR 28 K
R SK SK

3543 kHz, 01-12, 1606 UTC

R RPT K
R AS R R AT EEEEE R RPT K
K K K
R R RPT EEEEE R RPT K
R 06W TATU TATU =
R RPT 16W NATD NATD K (Cont'd to repeat groups)
R QSB QSY 41
R QSB QSY HR 41 QSB QSY HR 41
VVV
R QSB QSY 51 QSB QSY 51
VVV (x3)
MSG GA K
GA K
R MSG GA K

5335 kHz, 06-12, 0806 UTC, i.p.

R F GA K
R GA (Both stations on this frequency)
FF NR 6243/EX 1608 =
TF7/8PO BT
F NR 6243/EX 1607 =
A.7/CW.
FF NR 6243/EX 1608 =
A../CW2 AR K
R QSL 1610 QSL 1610 K
R HR WK NR .03.. WK NR 10.. K
R HR WK NR 167 WK NR 167 SK SK
R SK
VVV YU6B XBXB666 66

3194 kHz, 09-12, 2254 UTC, i.p.

3A65 NTAD U73N 7375 DUNN UN76 UN36 (Cont'd) AR K
R RPT 2P K
R BT NAA6 UD73 3474 376U 7U36 TUTA (Cont'd) AR
R GA
R FM RMKS R GA (Other station found on 3230kHz)
R RPT 1P 01W TO 02W K (Cont'd to ask repeats)
QSL 0712 SK
SK

3230 kHz, 09-12, 2306 UTC, i.p.

6AAT NATA 374N 556N TA74 D6U4 (Cont'd)
III = AND5 AN67 A7N5 6DD4 3TDU 5TTA (Cont'd) AR K (Other station on 3194kHz)
R RPT 1P 01W TO 02W = = 6DAN 7T5T 6DAN 7T5T
SK

4123 kHz, 09-12, 1603 UTC, i.p.

VV 4DBE DE
VV R 4DBE DE 998E K
R QSL D EEEE HI R
R QSA 2 QSA ? K
R IEC = ET EEEEE R IEC = 1D EEEEE
R IEC = 1988 AR K (Normally associated with Exercise traffic)
R IEC = 1994 AR K (Different IEC Code sent)
R
HR MSG GA K
R NR 5986 CK 91 EEEEE
R NR 598 EEEEE
R MSG NR 5986 CK 10 60 1204 1435 RMKS .388 TO 9448 K
R MSG NR 5986 CK 10 60 1204 1435 RMKS 9389 TO 9448 K

R =
R =
U3NT AU3U UAD7 3UD4 U3NU 45T4 4A5T TND7 67A4 AND4 AR K
R U MSG GA K
R GA
R RPT K

3046 kHz, 10-12, 1217 UTC, i.p.

96 AR
MSG NR 1216 CK 65 8 1210 2022 RMKS = X692 TO X696 AR
= = = A7U3 35U4 A5TN 35TN 4T3U N5T7 TND5 T34A 7NAU (Cont'd)

3116 kHz, 10-12, 1215 UTC. i.p.

99831 AR K K
= = = AU34 567D NT45 67DN TAU3 3457 D3N5 DUTA DUNT (Cont'd)

3210 kHz, 10-12, 1226 UTC, i.p.

R RPT 77W
R RPT 11W (Cont'd asking for repeats)
QSL 2029 K
SK GB

3230 kHz, 10-12, 1202 UTC, i.p.

R 26W = U7DT AR K
R 26W = U7DT AR K
R RPT K
R 46W TO 50W = DNNN 34.D 6746 NU34 TT5U AR K
R 52W = DD65 AR K (Cont'd repeat groups)
R VA

5796 kHz, 21-12, 0231 UTC

HR 7G K
GA K
R MSG GA NR NR 4995 CK 5 EEEE
NR NR 4995 CK 54 1221 1000 RMKS 6167 TO 6192 K
R GA K
7G = = 53UA 564U TU.3 ANUN 6U54 6AN4 7T3D (Cont'd) AR
QSL 1... K
R HR WK NR 110 K
R ...
R SK SK

M95

4243 kHz, 09-12, 1148 UTC, i.p.

AR
A HR 7G GA
NR 18 CK 162 35 1209 1612 =
UTU TTN 3U6 3A4 TTU (Cont'd) AR
A HR 7G GA
NR 086 CK 15 35 1209 1619 =
UT5 TTN 3U6 (Cont'd) AR
A HR UP SB AR
Switched to V26 at 1201 UTC

8073 kHz, 09-12, 1130 UTC

Voice callup in Chinese followed Q26 (4+4 QPSK 75/3000 LSB) at 1131 UTC

Switched to M95 at 1131 UTC

V BNGC (x3) DE XSV85 (x2)

HR MSG GA PSE CY

NR 1128 CK 40 35 1208 16..= =

TAU N5U TTN (Cont'd) AR

A HR 7G GA

NR 1129 CK 277 35 1209 1624 = =

TTN 3U. (Cont'd)

8073 kHz, 10-12, 1134 UTC. Q26 (4+4 QPSK 75/3000 LSB)

Switched to M95 at 1141 UTC

V BNGC (x3) DE XSV85 (x2)

HR MSGS GA PSE CY

NR 1123 CK 30 35 1210 1634 = =

TAU N5U TAT N53 TAD N54 7TT TAA 746 7T5

77T TN3 7T7 TAU 773 TUT 773 TUA 773 TU3

773 TU4 .73 TU5 773 7AN 7AD N47 3AN 7U5 AR

A HR 7G GA

NR 1124 CK 329 35 1210 1635 =

TAT 3U6 3AN 3U7 TAU 773 353 4T3 NN3 447 (Cont'd)

3045 kHz, 21-12, 1705 UTC

V JX0N (x3) DE E2UG (x2)

DE

R 3U.3 QSA . QSA ? K

NR AS CL

DE (1707z)

R BUY2 QSA 2 QSA ? K

NR AS CL CL

DE

R RYS3 QSA 2 QSA ? K

NR AS CL

DE

R EI.U QSA 2 QSA ? K

NR AS CL (1709z)

DE

R UX.E QSA 2 QSA ? K

NR AS CL

DE

R UYO1 QSA 2 QSA ? K

NR AS CL

DE

R .OA. EEEE 60AE QSA 2 QSA ? K

NR AS CL

DE

R RA44 QSA 2 QSA ? K

NR AS CL

DE

R .Y4V QSA 2 QSA ? K

NR AS CL

DE

R 1EA. QSA 2 QSA ? K

1EAO QSA 2 QSA ? K

NR AS CL

DE DE

R IEY9 QSA 2 QSA ? K

K R AS CL

HR MSG GA PSE CY

MSG NR 676/CCK CK 99 3. 1222 0100 RMKS = CQ AR

MSG NR 676/CCK CK 99 33 1222 0100 RMKS = CQ AR
 MSG 01P =
 7A54 7A.. 54UD A4UD AU34 5..4 DUNA (Cont'd)

4625 kHz, 22-12, 1438 UTC, i.p.

CD5K DE 5288 K
 R R R R QSA 2 K
 R R (1439z)
 IEC BT BT 3153 AR K (Normally associated with exercise traffic)
 R HR MSG GA K
 R HR MSG MSG
 NR 06CCK CK .. 213..

8073 kHz, 23-12, 1154 UTC

V BNGC (x3) DE XSV85 (x2)
 HR MSGS GA PSE CY
 NR 1171 CK 38 35 1223 1630 =
 TU3 3U6 3AN 3U7 TA. 773 TA7 773 353 4T3 (Cont'd)

4364//8073 kHz, 31-12, 1207 UTC, i.p.

A HR 7G
 NR 1215 CK 50 35 1231 1635 = (Cont'd) AR
 A HR MSG GA
 NR 1216 CK 48 35 1231 1636 = (This should be the last message for this year. Should start at 0001 on 01 Jan 19)
 AR

Switched to V26 at 1213 UTC

MC03 - Chinese Air Defense

3798.5 kHz, 13-12, 1739 UTC

6D4 UA5 64 7UU6DUN AT3 3N
 6D4 UAH 645 7TU3N63 AAT 3N
 6D4 UA5 63A D3U5N3A AAT 4T
 6D4 UA5 64U 74UE77A ATN 4T
 6D5 UA5 6U4 4T
 6D4 UA6 6UT 6TAAAAD AA5 4T
 6D4 UA5 64A D5UE4N7 TNU 4T
 6D4 UT5 64U 75U6ADD ATN 4A
 6D4 UA5 645 7AUVUAA AAT 4A

UM10 - 10-minutes net

Freq	Date UTC	Details			
3536	1-12 1553	10-minutes net: ZJL4	3865	9-12 2252	10-minutes net: KTR4 //3206 kHz
3648	1-12 1553	10-minutes net: OUCH	3206	10-12 1224	10-minutes net: KTR4 //3865 kHz
3206	5-12 1820	10-minutes net: KTR4 //3865 kHz	3865	10-12 1224	10-minutes net: KTR4 //3206 kHz
3865	5-12 1820	10-minutes net: KTR4 //3206 kHz	3238	10-12 1226	10-minutes net: D6AN //3698 kHz
3238	8-12 1227	10-minutes net: D6AN	3698	10-12 1226	10-minutes net: D6AN //3238 kHz
3865	8-12 1229	10-minutes net: KTR4	3206	10-12 1651	10-minutes net: KTR4 //3865 kHz
3238	9-12 2250	10-minutes net: D6AN	3865	10-12 1651	10-minutes net: KTR4 //3206 kHz
3206	9-12 2252	10-minutes net: KTR4 //3865 kHz	5735	22-12 0251	10-minutes net: L65K //6920 kHz
			6920	22-12 0251	10-minutes net: L65K //5735 kHz

HM01 - Dirección General de Inteligencia

Oddities

It seems that the Cuban clocks need to be adjusted again. The transmissions seldom start at the hour. Often a couple of minutes earlier or later. Radio Cuba Habana has been heard a number of times and several M08a/HM01 mixed transmissions have been heard. They are more screwed up than normal. See also M08a.

8136 kHz, 09-12, 2257 UTC. M08a mixing with HM01

8010 kHz, 10-12, 2315 UTC. M08a mixing with HM01

8136 kHz, 11-12, 2300 UTC. M08a mixing with HM01. 71875 36551 86325 55633 85266 35553

8136 kHz, 11-12, 2300 UTC. M08a mixing with HM01.

Groups and files sent:

71875 74857187.txt

36551 45173655.txt

86325 86078632.txt

55633 86285563.txt

85266 50758526.f1c

35553 85153555.txt

11435 kHz, 17-12, 1600 UTC

Radio Habana Cuba. ID and interval signal, then into 86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov)

9065 kHz, 31-12, 0900 UTC

86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov) Should be on 9240 kHz

HM01 RDFT file log by MDK2

Date (DDMMYYYY): Numbers: File name or repeat: Frequency (kHz) and time(UTC):

01-31/12/2018 86423 36137681.txt * 11435 1600

20048 50432004.f1c *

70305 55787030.txt *

81001 50838100.txt *

03627 30210362.txt *

64881 20216488.txt *

* These files were first sent in November. HM01 has been repeating number sets and files every day since 03 November, and repeated every day in December. Since they were already logged and cross referenced in November, they won't be included in the file reference section this time. Please see N&O #254 for that, plus a link to download the files.

On 11 DEC, HM01 was heard mixing with M08a on the latter station's frequency of 8136 LSB during the 2300 UTC hour. This has been reported on previous dates by some other listeners, all during the 2300 broadcast which is sometimes on 8010 LSB. From what I can tell from the reports, it's been sending the following number groups and files during all these broadcasts. It's interesting that they seem to be repeating every day as well, but just a different set of number groups and files than those on the normal HM01 schedule. Unfortunately I wasn't able to check in every day, but it did repeat for a number of consecutive days at 2300 on both 8010 LSB and 8136 LSB.

Date (DDMMYYYY): Numbers: File name or repeat: Frequency (kHz) and time(UTC):

11/12/2018 71875 74857187.txt 8136 LSB, 2300

36551 45173655.txt

86325 86078632.txt

55633 86285563.txt

85266 50758526.f1c

35553 85153555.txt

These files can be viewed and downloaded at this link. If the regular HM01 ever sends new files this month, they'll be added to the same dropbox file at that time. https://www.dropbox.com/sh/ngn2b5s11y2no16/AAA_tgCBZXrf99UFByjoXBKFd?dl=0

HM01 RDFT file reference

This includes only files sent on M08a frequencies, as HM01 was repeating November files and number sets throughout December.

Sort by file name

File Name:	Number group:	Date first logged (DDMMYYYY):
45173655.txt	3655#	11/12/2018
50758526.f1c	8526#	11/12/2018
74857187.txt	7187#	11/12/2018
85153555.txt	3555#	11/12/2018
86078632.txt	8632#	11/12/2018
86285563.txt	5563#	11/12/2018

Sort by Date

Date (DDMMYYYY):	File name or repeat:	Numbers:
11/12/2018	74857187.txt	7187#
11/12/2018	45173655.txt	3655#
11/12/2018	86078632.txt	8632#
11/12/2018	86285563.txt	5563#
11/12/2018	50758526.f1c	8526#
11/12/2018	85153555.txt	3555#

Sort by number group

Number group:	file name:	Date:
3555#	85153555.txt	11/12/2018
3655#	45173655.txt	11/12/2018
5563#	86285563.txt	11/12/2018
7187#	74857187.txt	11/12/2018
8526#	50758526.f1c	11/12/2018
8632#	86078632.txt	11/12/2018

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

M42 – various modes

14363	17-12-2018	0826	Mon	MFA Moscow working Embassy Bern (QX 16335 kHz)	MFSK-66
16335	17-12-2018	0826	Mon	Russian embassy Bern working MFA Moscow (QX 14363 kHz)	MFSK-66
9088	17-12-2018	0834	Mon	Russian embassy Bern working MFA Moscow (QX 10900 kHz)	MFSK-66
10900	17-12-2018	0834	Mon	MFA Moscow working Embassy Bern (QX 9088 kHz)	MFSK-66
16166	18-12-2018	1154	Tue	MFA Moscow wkg unid embassy. Link is 30044 (QX 17442 kHz)	Serdolik MFSK
17442	18-12-2018	1154	Tue	Unid Russian embassy. Link id 30044 wkg MFA Moscow (QX 16166 kHz)	Serdolik MFSK
14933	18-12-2018	1213	Tue	MFA Moscow wkg unid embassy. Link is 30044 (QX 16213 kHz)	Serdolik MFSK
16213	18-12-2018	1213	Tue	Unid Russian embassy. Link id 30044 wkg MFA Moscow (QX 14933 kHz)	Serdolik MFSK

7684/5326/4029 kHz, 05-12, 1940/1950/2000 UTC

J576 100000+++++++162

14421 kHz, 12-12, 0100 UTC

86652 83416 12856 07334 36963 00414 64826 00828 66279 24503
 14123 28119 39581 88567 40092 45553 11371 54738 76502 02544
 06864 92072 30338 xxxxx 43912 90102 10157 22764 06576 50056
 17210 65067 06305 54903 98156 81758 91643 01453 82418 21876
 92420 37056 72845 05114 09336 51328 23055 02267 84906 74601
 48459 84120 16692 87811 94422 55993 98740 73485 09989 20109
 02204 62541 00608 32986 31036 56574 58303 50038 13744 30312
 92725 74564 17095 43938 11513 53326 92746 19969 23412 85893
 92714 64364 62588 39941 14636 36564 57564 89701 62741 98138
 93225 19735 35505 94745 39332 61235 75874 51064 43966 53029
 45048 83414 15365 44405 722xx 59736 40562 82451 25740 61618
 14296 49595 38104 28067 76593 46020 18262 85700 82494 31667
 64613 95056 52336 71483 93186 67699 76048 50633 82407 33818
 69880 51902 28904 64996 09014 12508 00279 81850 84492 02487
 95802 01215 57901 91844 50946 02563 12240 98682 46699 18365
 22423 35443 09617 78045 93851 95507 13518 60250 42482 47308
 18790 33097 14841 28138 10221 87106 71415 54869 19310 90493
 81865 93741 41985 21508 05486 56431 87671 57517 55354 14566
 20638 25511 69623 49893 79576 43724 38365 82274 86330 09054
 59421 42704 79733 09972 21707 83531 70686 xxxxx 39374 43078
 57919 48690 85307 06840 54901 63064 97368 32452 31278 95407
 55827 30622 62332 05906 55431 19196 32878 71522 20531 92562
 53018 08581 36718 73577 86516 58326 97400 40190 52688 40166
 88755 43971 87774 02278 61503 62715 76725 24259 62932 54318
 91322 51526 27612 04113 95597 79245 00000

14421 kHz, 18-12, 0100 UTC

68072 15736 74369 13354 53309 05116 86796 46085 10067 58196
 17729 23593 87895 79171 83599 67214 23735 78970 45293 87507
 76018 52973 70690 53828 16303 57850 12662 53061 66679 17425
 32083 73451 62690 55958 58061 74473 46410 82332 02551 28671
 19392 73533 71555 46403 10171 30895 40095 19444 35997 07551
 83132 44369 63499 30461 79647 11653 97964 65584 32038 71439
 55910 99487 68039 11906 00652 35930 17362 11156 45541 30817
 80207 48596 54577 13969 29879 86714 95052 71151 16655 59207
 21955 84785 65125 26395 98777 56798 82165 83861 84460 62034
 17745 35243 41116 05666 45760 65131 42257 83057 57066 72996
 86189 65497 81911 54091 44271 60252 83945 38265 98731 18373
 93004 22622 49711 88690 68848 58965 96244 41445 13046 81965
 20845 09980 71186 88991 32393 23934 92623 07532 47019 32385
 39905 11156 11652 40366 65121 69949 99937 07197 95316 46357
 35208 80072 94179 72373 20183 61343 92189 69019 78105 32924
 02403 94040 34987 86264 64080 28767 97647 31331 81322 40070
 07257 83023 48923 78355 73040 48476 82608 97523 15851 63674
 95864 07851 76295 52817 90530 97705 67096 08885 53349 85060
 74377 18821 75665 84720 37567 81795 38454 02212 62600 93957
 29864 90273 48106 98142 87477 28880 29278 21946 82456 14734
 69098 52624 87774 71173 51622 22242 97716 14428 56993 01516
 90840 37156 22890 25783 53572 95204 22081 01539 06649 08533
 10785 66978 01565 12232 27514 04978 79237 18578 47100 31954
 08061 76058 19580 11045 43543 36311 48625 63040 76714 64910
 89225 73503 63489 56933 69285 84245 00000

18169/15765 kHz, 28-12, 2230/2240 UTC

18169/15765 kHz, 28-12, 2330/2340 UTC

11177 00116 46785 27056 01799

02156 50034 66025 89506 08378 21058 55073 82307 77691 19089
88037 06921 77976 27158 84565 68488 38752 45057 32721 34941
95741 22162 02297 43561 40312 77981 07601 02519 71312 06874
92445 91289 60640 94546 63995 21309 91345 85733 89553 86033
61870 51103 00454 24999 49816 39334 61561 72292 81247 86377
23725 37681 36403 58509 98024 90120 06390 83873 10050 31801
79103 59484 69290 30337 94991 94206 59561 14372 73392 44499
38329 54394 95573 90727 29050 41793 62125 39188 70527 91963
68466 72741 00644 37347 21795 68955 21599 16210 53219 76820
64336 90485 12973 80923 18741 63855 01264 85625 26913 31526
94460 74379 00226 90355 87170 60413 02960 93543 64319 10945
62591 77411 91387 49313 87938 84008 68238 50592 68528 36787
26629 70372 35178 94164 35487 33501 45707 89939 46455 56062
69929 65538 67360 26930 87652 40068 54946 83236 22470 49654
64251 61377 12108 90134 85822 06361 05742 00339 04334 24538
11315 81339 75449 67210 13776 39104 11864 34770 74530 72993
02799 52083 59656 30207 47301 67578 89078 03103 67322 15338
28580 86933 74371 39642 02957 46491 23181 56177 00000

10884/8157 kHz, 31-12, 0025/0035 UTC

10884/8157 kHz, 31-12, 0125/0135 UTC

11177 00117 98276 27057 02279

38924 51001 33000 22247 98547 86006 43758 10930 26438 67081
98164 85015 97062 89502 72817 79798 89805 20243 73001 58000
47531 42013 00482 20245 84084 25427 57522 86600 91269 48282
78677 09454 22396 57439 44060 22843 11190 00257 69198 76511
48576 69143 67697 60907 66877 66537 69726 40754 01280 15207
16495 35110 07081 64149 86225 23273 90150 69792 89989 36360
44966 41980 49055 01602 88498 34491 75762 42550 52977 68120
32874 63804 97975 13780 95213 27332 38616 09191 50949 68246
53474 71404 83346 15546 69675 64300 25385 05667 34080 81535
11401 18578 51609 12490 14432 51326 06968 08675 44605 53915
04967 43096 60458 28685 34017 78089 18397 25024 80626 56634
17130 82901 08167 88213 89354 12277 91404 78768 08614 52593
88435 05934 62532 00098 09672 14484 98441 96809 36389 50171
98267 59399 79735 04194 14364 22761 85113 06447 53827 35374
80016 45831 22955 46312 06519 44681 08129 88682 02498 15646
86357 42402 72016 19499 69420 23689 28673 53595 97990 52102
06369 48408 44824 27799 39840 80590 91828 76848 98370 71963
01486 66617 82965 94378 28876 04912 22460 23986 86972 68898
81680 48442 96455 47057 64353 73283 08669 71937 12357 02607
37184 76896 39697 56052 76632 43604 36374 94293 82454 32247
41616 87049 69516 02222 73610 07231 07480 84257 27440 56004
03208 69923 54810 72499 23667 74696 09951 73085 43946 23862
70767 43124 57225 00000

Link 00052

19851/17464/15609 kHz, 12-12/13-12, 0900/0910/0920 UTC

11166 00052 48297 11034 01049
 23080 06121 53866 22078 34707 64816 77404 40426 56189 56298
 12392 97356 90742 42861 50851 77918 09301 96214 46883 85755
 76981 69287 77380 86606 22877 93856 28736 72558 68779 56449
 08647 60560 53302 46745 76223 83301 64483 00541 69955 62324
 76399 33996 91756 95868 90199 16372 37369 49647 82600 13551
 68308 58867 31069 20810 43099 21959 14364 76438 06383 07233
 29906 86985 24037 42230 61370 62239 52210 11589 21849 15611
 18976 71074 95769 45818 88912 96444 84049 40759 54470 42242
 10082 87697 97585 79990 31068 49394 32434 61452 31547 64217
 87442 93575 38252 49468 58446 44403 03232 35218 84800 81852
 49175 32958 34102 00000

19851/17464/15609 kHz, 26-12/27-12, 0900/0910/0920 UTC

11166 00052 37195 26035 01369
 49979 56136 53867 22078 50696 14821 77405 40426 72078 06203
 12393 97356 91921 96707 88048 58810 37355 00319 00266 68891
 21545 77098 28756 05371 37041 46944 04253 16613 93519 51643
 30994 66181 16207 66250 43728 56933 48622 22533 33482 47889
 48201 94748 74534 72491 56829 14535 69318 75344 87323 51443
 62561 48642 16138 15322 29000 80802 82351 06138 53546 17522
 70821 38169 31704 45879 88407 42013 41536 52486 41011 43413
 43284 80132 07610 20124 67811 97541 36210 36528 79476 51437
 20957 89110 49504 01927 13744 36378 27918 23487 73425 09064
 32949 57875 47283 02631 56952 70643 71024 35531 37116 11804
 74104 06362 90472 91145 13893 75112 93194 08607 94922 25084
 73689 02415 98282 46335 26907 06970 84374 37438 68636 01882
 11171 89240 42459 61814 86470 81106 06375 66960 23121 56955
 16453 49476 73992 75234 35134 00000

Link 10031

18046/16326/14944 kHz, 12-12, 1015/1025/1035 UTC

11166 10031 78963 12001 00049 00000 00000 00000 00000

18046/16326/14944 kHz, 26-12, 1015/1025/1035 UTC

Wrong shift. 500 vs 1000Hz

Link 10053

9416/7836/6875 kHz, 02-12, 1530/1540/1550 UTC

11166 10053 95174 02001 00049 00000 00000 00000 00000

9313/7928/6783 kHz, 04-12, 1650/1700/1710 UTC

11166 10053 78963 04001 00049 00000 00000 00000 00000

9416/7836/6875 kHz, 09-12, 1530/1540/1550 UTC

11166 10053 34691 09001 00049 00000 00000 00000 00000

9313/7928/6783 kHz, 11-12, 1650/1700/1710 UTC

11166 10053 17935 11001 00049 00000 00000 00000 00000

9416/7836/6875 kHz, 16-12, 1530/1540/1550 UTC

11166 10053 78963 16001 00049 00000 00000 00000 00000

9313/7928/6783 kHz, 18-12, 1650/1700/1710 UTC

11166 10053 12478 18001 00049 00000 00000 00000 00000

9416/7836/6875 kHz, 23-12, 1530/1540/1550 UTC

11166 10053 17935 23001 00049 00000 00000 00000 00000

9416/7836/6875 kHz, 30-12, 1530/1540/1550 UTC

11166 10053 35491 30065 00049 00000 00000 00000 00000

Link 40122

20157/18239/16204 kHz, 05-12/06-12, 0600/0610/0620 UTC

11166 40122 26378 01006 04589
93498 52802 35564 99784 93747 56994 11010 48149 84916 27848
81631 89578 66361 70123 86153 67264 76956 67825 67717 87523
76295 33927 41266 50435 66602 63711 78984 70805 66315 46406
87245 56651 71256 14817 73502 37393 64346 37623 26551 58943
59788 84053 58616 87871 92658 15599 82690 91848 89847 84465
23560 88533 83290 43464 85966 80121 51411 96996 28328 15709
99735 47857 15467 48691 16593 19515 48785 81355 64864 58572
97307 13878 95693 47088 78045 39893 95112 79454 59121 55846
99511 83505 84076 76288 40903 90555 40808 72325 07893 84052
23576 75394 33329 81525 61516 13562 44536 29532 12086 72530
37087 16265 42895 98535 58050 31539 50356 85326 09649 28819
88579 12419 09257 68986 06969 26801 66697 50533 19937 85286
64744 55873 57199 99700 53804 68445 68056 52080 96675 40313
78135 72087 24361 14937 21994 93813 88838 34806 00048 34170
23754 88629 33259 60040 48953 77758 14002 36397 79802 06537
76565 72558 27229 26264 35726 08784 99428 87460 66814 10377
41163 80119 25733 61506 71595 66636 32344 75920 06600 37101
65683 66734 76480 41638 44417 42497 75035 79490 91002 21714
00910 49523 02965 83005 77169 91844 79750 93108 60034 75228
78578 79894 72712 10021 97735 42584 25263 91224 10752 16377
06440 01450 99886 33641 58439 28409 62374 48889 70496 76658
87862 19703 52271 78257 30472 60804 72951 32046 23929 13456
77015 26221 13199 97387 12601 23903 01066 37426 33399 16375
33083 82015 60026 73689 69344 55825 11806 47319 16513 13627
44896 04554 18534 87627 57705 99320 29484 45444 49524 09111
16978 00915 43328 92719 69590 44926 08668 48462 06708 88452
45599 77573 14266 34982 15589 82469 54806 24534 30319 54555
25276 16436 34356 31279 61031 03064 42588 27104 09461 71728
18399 68096 21681 56889 03491 84820 35728 49888 35314 43208
49706 58394 13025 18118 08294 32737 97919 39253 51084 01329
59278 64121 96172 82350 01557 57750 57433 63898 33862 83812
18927 69771 67649 36871 14879 53097 53587 70430 88651 84968
93505 00462 29171 30297 88397 89119 08219 28050 08374 38314
67053 18082 95546 47830 25773 81722 35745 17695 13879 88332
60029 99462 45467 65000 61912 26116 87477 31566 41259 75269
94460 68172 10769 45357 08274 07517 26001 49501 46160 69005
24870 56740 25650 76977 87549 35308 99707 30211 52730 77654
00572 14881 51156 11885 15729 78155 42386 29325 44447 04638
65714 82871 08321 62816 41193 35842 14248 13724 81683 65999
93295 98997 01886 54432 63874 50513 35274 13995 92672 88792
94881 36980 51777 02367 38871 66721 95422 25288 26831 22803
04817 54966 77721 34580 74455 77530 65429 62676 38390 92899
12855 13163 59866 56737 70466 74102 32788 81500 90271 29141
68425 63752 31132 27839 65821 29930 56366 17426 89322 17764
09572 65670 01681 35517 79611 29555 26156 66260 90692 49430
36059 09339 78486 73350 95177 76243 06456 00000

20157/18239/16204 kHz, 12-12/13-12, 0600/0610/0620 UTC

11166 40122 95417 08007 02759
84792 16270 52691 58329 70887 14147 50892 52283 49849 27088
67080 94844 91755 87086 44308 91677 51951 80999 42522 45812
37059 74346 26302 40080 35935 59810 76132 37239 38993 47640
09153 27445 94351 40132 20308 77784 74238 57376 79855 63542
50077 06469 48152 85899 99710 11363 93669 05734 95184 45551
25160 48232 44544 34775 73929 57989 86060 21926 87141 09274
58342 11362 18095 01170 94768 34787 24409 92256 15664 05912
10060 54541 16673 56065 72200 51301 76765 67956 87026 85543
43004 97620 73615 48190 45991 67392 26934 88683 74587 25385
12750 01573 80460 74204 15491 16189 96045 55457 90435 94972
14197 85407 29376 99421 04646 75163 49135 70059 01938 07333
62305 17606 48895 90985 39577 72291 30108 66814 23094 87880
79898 84409 00060 47498 99078 23344 96219 68133 64862 80294
98259 50700 68243 93622 64858 72265 63395 27723 35467 67784
63306 88691 96390 97839 66080 93388 13438 49345 46295 63592
90522 66337 95736 67402 63692 57236 47947 79398 89787 75974
70984 81735 39297 23527 62619 77865 52591 66834 32534 40966
69139 22009 05744 68559 88767 98635 31760 65745 74750 52160
33728 28380 57648 41019 81942 48578 49617 35655 26353 13828
28515 76168 71918 22246 00932 25322 31770 85417 03820 14152
42209 40633 53959 26620 73852 44936 04578 20607 23722 72080
18722 31692 22126 85002 18445 57007 39000 05239 19426 65748
24217 51193 10322 33332 65776 67458 86173 46113 00777 16590
95361 73371 63177 55634 09307 53702 02860 68986 74511 92420
60421 79578 56148 17026 31896 10385 32570 87548 07995 17827
50343 08602 22083 69220 98754 40244 91300 86071 13655 54036
85313 24913 69677 31780 06858 17958 70244 53419 18619 44955
94977 70892 00890 72730 00000

11166 40122 94261 08008 02979
57062 56991 63521 00348 79110 39875 72297 71775 52788 84993
51761 89534 99172 81699 43482 10480 22526 26274 78742 15403
23761 83027 52792 24095 94481 48230 13278 81200 65020 84072
98756 92568 04924 14820 88251 16771 99309 02374 47781 41487
49549 43403 84793 99445 71695 55257 46453 03594 91105 42824
22712 06200 56694 63544 40099 11566 23252 32749 57174 97044
75264 36518 97582 22038 90678 44251 81634 29679 68046 38126
42366 70872 65477 01647 37012 05387 24858 34451 89812 59685
79752 85583 27125 46185 70435 22413 90739 73621 14493 77372
40368 03224 06425 39735 81224 30372 44688 84577 77641 96432
09624 56154 38660 60455 40695 47846 86529 85421 86478 45880
44057 18733 25854 29004 01735 71625 83817 41308 50602 27191
90359 80381 91753 31708 55851 67979 58459 48956 61372 95406
11808 82205 87410 60790 95827 93573 29390 40437 63022 75426
73440 61456 06243 53528 30866 67847 57857 26602 54740 97221
42134 72020 87070 10366 91787 72281 09959 40819 64627 41987
99214 56658 21231 59983 03835 51681 49601 36377 99812 08166
47727 69091 91688 98404 99991 69672 60301 17191 08371 63006
80163 62455 64346 90663 54907 06230 72488 72538 44224 23134
61628 06474 80762 68564 44569 10565 00389 23785 12272 37828
34273 50093 73444 17918 36229 19260 75487 05582 43738 12421
67716 40542 96110 04623 92813 48491 58211 77189 17439 37887
23184 25117 37928 72237 92623 51669 22047 22559 57625 67373
72695 29701 29148 35593 24537 31219 91133 31872 09474 32484
74817 09240 51896 26727 77667 86651 79672 93682 75390 02774
61781 31547 00441 02274 08554 01914 85470 46830 95446 92391
95162 68029 96288 26585 94873 04348 36931 76120 29533 89402
05260 54420 11241 83659 78478 96890 38980 66782 53620 57233
98911 32824 92222 74551 18657 55422 15094 90948 74036 15216
08118 24298 71679 06649 25031 08295 00000

20157/18239/16204 kHz, 19-12, 0600/0610/0620 UTC

11166 40122 15236 19056 00049 00000 00000 00000 00000

20157/18239/16204 kHz, 26-12, 0600/0610/0620 UTC

11166 40122 63742 22009 03279

56528 45595 15650 70201 92789 22107 11637 04297 69139 08526
43532 45111 91522 70092 90152 24787 85953 38422 92264 35612
31131 68310 05365 37654 15364 16121 60363 05951 91252 06940
68120 96930 26562 82693 28768 38766 74722 48404 31750 75334
13402 58782 57528 18484 24570 12336 16879 88286 14520 45188
88730 45966 97255 41787 42475 49190 89702 04703 55679 84411
92168 50688 63159 55950 52501 25201 98324 36501 37365 52564
12757 08750 59098 63969 84942 52798 31561 70488 54104 59070
53430 73298 40067 71397 42375 28300 35100 89966 68547 07315
78666 88821 60821 23059 51015 27594 84236 10068 46574 62171
12052 78763 13044 83972 40886 84865 67170 42523 22346 81305
23106 31021 09604 44862 94308 39577 42354 94683 54910 05822
18583 44892 71498 17558 26593 58464 41248 47151 35721 94556
97331 22358 69181 66492 67558 63247 07484 52561 97166 39942
95839 26854 71724 30836 54027 02297 01053 85992 12124 03083
50133 25406 20561 08682 27914 26809 07928 36626 69977 82726
84968 56245 75977 31452 18215 50552 87812 91629 21671 68460
19452 55150 40017 34514 74360 18026 21745 08335 11459 53942
05676 10957 45562 60179 69293 60245 93213 30576 12333 82582
99885 35236 74058 93019 09451 11659 07673 61059 61880 96988
60291 04280 30107 56056 31917 76979 31978 84910 11867 46021
78250 94536 16063 71077 42552 04419 73653 31453 64259 00674
36378 66683 20220 38405 09130 23082 26255 92995 25143 23439
54397 90005 14250 02049 76775 68378 37641 72255 72104 56625
87563 18713 55710 66697 75402 31527 19021 35211 56579 24492
89477 66729 65696 04589 46787 58777 60385 84944 56457 13292
97272 58432 06563 64174 88516 74106 58664 75650 12353 83659
48830 91116 76069 50078 99685 37163 54874 35702 29448 12457
55069 11859 68855 16180 74982 57274 21958 95703 62091 37434
31685 18189 89771 82090 36137 95799 02122 03110 26543 19218
00278 19823 42805 79144 68680 84100 67588 80480 64719 22310
04876 78867 20187 36364 53943 94277 27993 31025 14666 81349
12573 59687 85128 61141 07414 09325 00000

Link 40133

20648/18483/16196 kHz, 01-12, 1500/1510/1520 UTC

11166 40133 93467 01001 00049 00000 00000 00000 00000

20648/18483/16196 kHz, 08-12, 1500/1510/1520 UTC

11166 40133 79513 08012 00049 00000 00000 00000 00000

20648/18483/16196 kHz, 15-12, 1500/1510/1520 UTC

11166 40133 17935 15001 00049 00000 00000 00000 00000

20648/18483/16196 kHz, 22-12, 1500/1510/1520 UTC

11166 40133 74123 22001 00049 00000 00000 00000 00000

20648/18483/16196 kHz, 29-12, 1500/1510/1520 UTC

11166 40133 56248 29001 00049 00000 00000 00000 00000

16359/14353/12216 kHz, 02-12, 1100/1110/1120 UTC

11166 50046 24783 30065 00489
65927 01188 28224 34085 02399 94308 71689 54737 41493 90376
76317 67760 08353 69677 04036 56427 71981 81986 26395 72333
45663 57882 51082 07388 21723 56116 41316 37759 88986 56277
76000 09564 10894 18154 70365 95577 97883 18636 01381 75425
56194 79423 25150 46991 45544 51515 65046 00000

16359/14353/12216 kHz, 08-12/09-12, 1100/1110/1120 UTC

11166 50046 73591 07066 02049
58177 21155 29224 34085 95549 14375 72689 54737 34643 10343
77317 67760 94700 26535 83589 74641 62830 77612 83557 93563
30911 32018 90084 15322 44381 84485 29639 26546 28701 32382
09101 66011 51465 27697 57529 24460 39920 55941 68178 84845
06193 61199 84863 62385 58206 64771 08534 71537 60350 18056
18864 54312 47678 00717 61822 05205 85027 44663 33825 11530
42779 03909 58345 89710 49094 00895 04607 21672 12520 62116
79164 38326 33710 88169 82801 77060 37301 09432 81773 71363
81662 30129 78609 52851 76678 54510 38945 51145 31139 16194
22366 42156 81761 45023 62693 10804 28551 75226 12393 14782
64207 41318 49547 49013 40722 27503 14180 66884 67018 46702
74212 36007 93242 36871 47396 67289 84294 48525 98625 75777
80994 08957 33156 50914 09307 73471 98934 43057 40594 66366
79215 70933 06015 08911 35669 01386 72794 11940 21029 82231
01360 57836 57705 75586 40287 75203 22207 47513 28563 59447
83178 24738 67458 30047 81213 87494 90280 29748 20052 28266
65738 23186 57575 76624 90957 53425 16234 86179 08636 30388
38772 14310 64724 39163 20086 46346 30999 28668 42170 39679
78354 88407 51107 16920 56983 60483 97587 41605 99546 34794
18618 84615 71590 24685 70849 62722 15332 11044 24816 60881
81703 82158 66202 00000

16359/14353/12216 kHz, 15-12/16-12, 1100/1110/1120 UTC

11166 50046 73591 07066 02049
58177 21155 29224 34085 95549 14375 72689 54737 34643 10343
77317 67760 94700 26535 83589 74641 62830 77612 83557 93563
30911 32018 90084 15322 44381 84485 29639 26546 28701 32382
09101 66011 51465 27697 57529 24460 39920 55941 68178 84845
06193 61199 84863 62385 58206 64771 08534 71537 60350 18056
18864 54312 47678 00717 61822 05205 85027 44663 33825 11530
42779 03909 58345 89710 49094 00895 04607 21672 12520 62116
79164 38326 33710 88169 82801 77060 37301 09432 81773 71363
81662 30129 78609 52851 76678 54510 38945 51145 31139 16194
22366 42156 81761 45023 62693 10804 28551 75226 12393 14782
64207 41318 49547 49013 40722 27503 14180 66884 67018 46702
74212 36007 93242 36871 47396 67289 84294 48525 98625 75777
80994 08957 33156 50914 09307 73471 98934 43057 40594 66366
79215 70933 06015 08911 35669 01386 72794 11940 21029 82231
01360 57836 57705 75586 40287 75203 22207 47513 28563 59447
83178 24738 67458 30047 81213 87494 90280 29748 20052 28266
65738 23186 57575 76624 90957 53425 16234 86179 08636 30388
38772 14310 64724 39163 20086 46346 30999 28668 42170 39679
78354 88407 51107 16920 56983 60483 97587 41605 99546 34794
18618 84615 71590 24685 70849 62722 15332 11044 24816 60881
81703 82158 66202 00000

16359/14353/12216 kHz, 22-12, 1100/1110/1120 UTC

11166 50046 74381 21067 01389
38097 12079 29224 46320 75469 05299 72689 66072 14563 01267
77317 79005 50913 66917 06934 38161 15181 79492 83762 06515
84880 58732 03919 33144 75779 27547 59970 11695 09642 90377
93090 14904 13893 42090 75520 43838 54953 31956 69983 32548
74974 45032 00825 43871 80110 09135 93176 31491 12592 41287
19058 04273 37747 78876 73259 59380 14765 66945 53884 40087
46088 04573 36051 44373 36081 56247 59274 33394 01122 71209
96097 16709 05859 73703 15006 99099 73413 46505 84082 58923
80284 33164 71023 48325 23911 08801 91174 44489 07176 54805
89412 22938 11830 32739 05870 86371 96540 40898 73521 30727
47346 19277 00146 67695 46901 05878 04286 27286 66702 30801
29878 01185 95779 16251 64500 90184 04685 43209 09847 87066
30950 86611 36321 33121 97041 32573 62407 78622 93506 15393
91628 08315 03326 18829 53486 92651 67136 00000

16359/14353/12216 kHz, 29-12, 1100/1110/1120 UTC

11166 50046 37820 29068 00769
30997 71177 29225 34085 77369 64397 72680 54737 16463 60365
77318 67760 60900 09638 97392 38770 76975 09730 74604 97067
22840 61248 05340 69576 93032 09589 71167 92015 65297 12246
64715 85136 62852 31136 08947 74564 77953 76145 47004 48957
39424 39193 67360 32193 49947 83861 47972 52767 70281 70408
65539 71182 66878 78127 39540 99809 46149 53740 47180 31078
74568 83530 82910 18771 52067 77256 13331 07568 22967 11606
84313 78165 85011 81329 68074 00000

Link 60070

7354/5886/4839 kHz, 11-12, 0030/0040/0050 UTC

11166 60070 13579 11075 00049 00000 00000 00000 00000

7354/5886/4839 kHz, 18-12, 0030/0040/0050 UTC

11166 60070 37941 18001 00049 00000 00000 00000 00000

7354/5886/4839 kHz, 25-12, 0030/0040/0050 UTC

11166 60070 79513 25012 00049 00000 00000 00000 00000

Link 60146

16321 kHz, 12-12/13-12, 0200 UTC

11166 60146 00000 12225 02459
12034 90578 91936 03923 25022 37254 61608 71941 54330 84464
73970 80057 50155 58475 11695 73336 71395 96611 50640 52248
01236 93981 37221 78230 68705 79983 14690 23871 93372 10535
28041 16172 95369 86963 62214 46302 37946 37497 93280 44302
94717 22285 57311 42165 58820 47892 66605 73727 36135 02210
27971 84823 89797 45704 42745 52127 28148 19960 93234 34120
53338 59437 45273 02630 12763 17397 21584 28371 20515 41917
25621 18926 41046 62949 20596 32608 52225 76346 93358 16636
29969 35796 57839 43068 21655 88609 77715 40926 00483 16291
13021 47942 17985 65828 20352 30379 96864 82648 61388 44357
31357 81165 99387 37108 87296 13869 88372 11627 19080 24879
84668 03125 45706 98919 35494 40742 53093 41629 24297 92955
14847 52166 77503 20110 48677 74030 62398 82513 50642 35048
30786 77547 74416 12456 88152 04208 47763 84013 93003 78806
63857 12502 60974 66206 06206 93123 40979 50444 58020 94049
30633 42561 87473 75784 91367 47002 95989 48195 66982 99896

45570 53839 19746 61716 74045 34891 65458 67814 02656 93777
95042 38547 14664 23865 59450 16003 29877 81831 26934 40538
87302 22559 75979 28626 19306 00852 56838 13316 84987 71124
98151 52444 56270 71285 44607 48904 38418 74514 91484 75477
26390 61915 24079 08652 03558 03650 11792 37122 70921 43821
18977 53034 91741 60142 91657 23421 35386 20922 29656 88138
54913 11002 03404 81519 83064 48308 24895 24631 80500 00000

16321 kHz, 20-12, 0200 UTC

11166 60146 00000 20231 02459
33730 52820 69958 93222 68029 12645 04370 09973 16574 85872
55740 56568 16132 05927 14118 72872 89143 75610 21518 83967
11098 97737 93836 53496 95975 96096 94432 95296 73199 93940
95301 23031 54517 42173 86785 42491 14272 14442 21758 16264
31486 11302 05219 55449 67198 40655 65229 18114 75491 66648
66148 19176 71655 44208 50069 81398 05903 81418 17441 82184
16106 96906 82764 75861 57962 64444 66343 96142 36041 61942
07993 68446 84154 67021 13666 86773 68470 66359 70926 34817
11826 70992 94206 56002 62665 54759 85786 02134 57048 58083
23435 15353 47153 24265 10647 23073 94735 60490 50419 50600
52955 40729 28492 81107 85017 92716 17008 17669 93082 36201
34517 27024 55848 64656 23260 69775 98276 87630 29687 46696
41879 75932 99121 15834 09004 76833 20538 60112 79572 91479
82358 10100 23692 31699 25234 51648 58574 98383 02733 73072
03228 48654 85871 31585 29324 43967 72437 43638 31700 96374
87031 28891 66926 55120 82771 62473 33384 00743 80588 15238
91269 38895 07071 86690 45993 11059 16763 60278 43387 64334
09890 35737 50165 47505 81422 18168 18081 25561 62428 68545
55206 29856 39645 45338 52785 86112 64214 91928 41083 87434
85514 49522 72683 04531 71029 00232 56664 50330 98182 70025
92079 41189 29092 46226 74213 21854 04167 89249 72008 46389
15488 43264 00133 32252 45913 75468 34109 29689 84844 98670
41951 73666 56592 56849 30738 10493 22268 78397 31570 16348
41161 26725 71339 49884 02516 02917 04755 06111 63662 80120
05060 63715 55430 74373 00000

Link 70004

20951/18643/16314 kHz, 08-12, 1000/1010/1020 UTC

The first transmission started with 500Hz shift. Changed to the correct shift at 1002z

11166 70004 36987 07001 00049 00000 00000 00000 00000

20951/18643/16314 kHz, 22-12, 1000/1010/1020 UTC

11166 70004 85236 22001 00049 00000 00000 00000 00000

Link 70048

18039/16204/14363 kHz, 05-12, 0800/0810/0820 UTC

11166 70048 21569 05012 00049 00000 00000 00000 00000

18039/16204/14363 kHz, 12-12, 0800/0810/0820 UTC

11166 70048 85276 12059 00049 00000 00000 00000 00000

18039/16204/14363 kHz, 19-12, 0800/0810/0820 UTC

11166 70048 85239 19059 00049 00000 00000 00000 00000

18039/16204/14363 kHz, 26-12, 0800/0810/0820 UTC

11166 70048 56783 26081 00049 00000 00000 00000 00000

Link 70059

6788/5384/4454 kHz, 03-12, 0500/0510/0520 UTC

11166 70059 71345 30020 01749
26157 82538 26001 73686 14471 55499 53068 05095 56274 84635
04892 30198 66688 62740 11153 65825 27114 37310 90969 54353
37117 40289 82618 09637 62224 58655 61990 25316 71601 94718
24443 87837 99968 20436 00736 44804 13067 96465 16823 23506
10939 46261 87542 54314 80648 14129 73254 42901 03176 93490
40316 12863 06809 45185 01312 68030 40468 13407 50444 60784
92484 17115 59778 23847 16178 72342 26133 45281 49754 63127
00281 29135 58791 60826 93836 03384 95204 66160 91889 62120
06872 39183 41934 98415 17077 00278 13099 97497 20422 01490
89151 93961 24244 22180 22293 66879 80619 60273 46073 20150
33994 04376 09281 98834 90564 11978 40001 17854 07268 38485
70188 87242 67908 10013 88314 66983 73131 19040 11819 24308
08773 60864 33522 98315 45201 20340 66774 17018 37177 48911
48160 85479 42518 96948 69618 30313 63011 38145 93831 66978
99546 12456 85406 55760 67924 67906 58952 88827 61579 13149
49633 13024 06458 35317 78317 71362 42024 06136 71773 06387
49435 30636 30274 81540 84260 89094 65088 74060 42624 00360
01635 53702 20172 00000

6788/5384/4454 kHz, 17-12, 0500/0510/0520 UTC

11166 70059 79513 17012 00049 00000 00000 00000 00000

Link 80214

10968/9354/7963 kHz, 06-12, 1330/1340/1350 UTC

11166 80214 82465 06028 00049 00000 00000 00000 00000

10968/9354/7963 kHz, 13-12, 1330/1340/1350 UTC

11166 80214 82465 13018 00049 00000 00000 00000 00000

10968/9354/7963 kHz, 20-12, 1330/1340/1350 UTC

11166 80214 16845 20066 00049 00000 00000 00000 00000

10968/9354/7963 kHz, 27-12, 1330/1340/1350 UTC

11166 80214 82465 27057 00049 00000 00000 00000 00000

X06 - Mazielka

I would like to congratulate Daniel and his Priyom colleagues on the great job they accomplished. They found the location of many Russian diplomatic stations that are using the Mazielka call system.

As we know for a long time the Mazielka is a selcal system used by the Russian Ministry of Foreign Affairs. It sends a wakeup call to the receiving station after which a transmission will take place. What we didn't know was the selcal/embassy combination. What we couldn't do in the early days of the system can be accomplished now by using the various web SDRs for listening and direction finding by Time Difference of Arrival (TDoA). And that is exactly what Daniel and friends did with the following results:

Sequence	Location	Daytime Frequencies	Nighttime Frequencies	Link ID
125643		11081, 13524, 14615, 15989, 19875		
134265	Russian embassy, Tunis	12134, 13985, 16116, 18245		
145632	Russian embassy, Algiers	13410, 14418, 15810	6866, 8169, 9163, 10114, 11067	
153624	Russian embassy, Damascus	12133, 13843, 14550, 16153	11624	
154263	Russian embassy, Rome	11085, 12149, 13401, 14358, 15687		
156234		11525, 13940, 14871, 20690	5772, 7635, 9235	80038
162543	Russian embassy, Nicosia	10508, 12219, 13448, 14447, 15973		
164253	Russian embassy, Khartoum	12120, 13924, 14655, 18177, 20334	7862, 9128	
164532	Russian embassy, Dublin	10293, 11411, 13506, 16223	6962, 7527, 8131, 9163	
165324		10161, 12122, 13452	6960, 7411, 8078	
165423	Russian embassy, Brussels	9450, 11462, 12157, 13411, 15836	8005	
213546		10283, 12168, 13954, 14425	5412	
214356	Russian embassy, Amman	12186, 14501, 17430, 18346	8180, 9253	
215346		12207, 13979, 14650, 16115	7560, 9076, 10202	
216354		11125, 12091, 13961, 14970, 17470, 20813	9351	00085
216435		11095, 13510, 15920, 19610		80072
231654	Russian embassy, Abuja	15676, 16103, 17506	9174, 11467	
241563		14720, 16320	6850, 7680, 8180, 10815	40078
246531	Unid Africa	14812, 17421, 18206, 20336	9386	
256134	Russian embassy, Abidjan	15828, 17463, 19611, 20605	7833, 12055	
256341	Unid Europe	10684, 12150, 13838, 14405, 15819		
261453	Russian embassy, Cairo	11136, 13530, 14865, 15710, 16060		00007
263145	Russian embassy, Prague	10214, 11561, 13441, 14812	7961	
314265		16276, 17517, 19511, 21825	7740, 8105, 10731	30033
324615	Russian embassy, Madrid	11030, 12094, 14570, 16219	10380	
325614		14942, 16188, 17454, 18523, 20655	11472, 12118	

Sequence	Location	Daytime Frequencies	Nighttime Frequencies	Link ID
351264		14934, 14947, 17534, 18060	5932, 7691, 10255, 11010, 12060	
352416		12089, 13951, 14950, 16132, 18575, 19405		50002
356412	Russian embassy, Berlin	9288, 10653, 12177	4912, 7604	
361245	Russian embassy, Copenhagen	9158, 12215, 14501	4542, 6986	
362154	Russian embassy, Athens	10815, 12138, 13465, 14631, 17445	8062	
364152	Russian embassy, New Delhi	9162, 11492, 12177, 13467, 14683, 15656		
412356	Russian embassy, Budapest	9061, 10814, 11483, 13369		
421635	Russian embassy, Oslo	7426, 10127, 11537, 13423		
431625	Russian embassy, Warsaw	9923, 10372, 12109	6893	
432516	Russian embassy, Geneva	10453, 12152, 14377	5760, 7823	70060
435621		12066, 15651, 17444, 18591, 20950	8147	
436512		15866, 16277, 17468	10196	
452163		10181, 13481, 14595	6818, 8041	
463125	Russian embassy, Rabat	12224, 13517, 16117, 18060	6870, 7820, 8123, 9105	90039
465132	Russian embassy, Sofia	10172, 11153, 13419	7516	
521634		12126, 13854, 14419	5775	
532614	Russian embassy, Paris	10270, 11438, 12199, 13395	4975, 8081	
534216		11545, 13420		
542136	Russian embassy, Baghdad	12107, 13493, 14861, 16257, 17523	8175	
561243	Russian embassy, Helsinki	7988, 9065		
564213	Russian embassy, Bonn	11447, 12158, 13338, 14442	5815, 7545	
612534	Russian embassy, Ashgabat	12100, 13510, 14675, 16317, 17520	5818, 6884, 7975, 9253	70015
615243	Russian UN mission, Geneva	12213, 13575, 14863		
621543	Russian embassy, Lisbon	11126, 12167, 14944, 15878, 18660	6938, 7870	
625413	Russian embassy, Beirut	12194, 13547, 14824		
641523		14825, 18750, 20675	7532	

Sequence	Location	Daytime Frequencies	Nighttime Frequencies	Link ID
645321		12178, 16103, 18197, 20837	5785, 6877, 7773, 9041	
	Russian embassy, N'Djamena			10097

The Mazielka tone generator is sometimes used to emit test strings like 123456, 111666, 121212, or 111111. In one particular case, the sequence 111666 can be heard about an hour before European E07, M12, XPA, and XPA2 schedules, on the frequencies these schedules are going to use, in ascending order (regardless of the order used on the schedule). It is unknown to what degree Mazielka is related to the Russian 7 operator.

Thanks to the Priyom team for this information.

X06 December logs

Code	Freq	Date	UTC	Day	Sequence
X06	11562	17-12	0832	Mon	Sequence: 432516 (Russian embassy Bern)
X06	16188	18-12	1209	Tue	Sequence: 325614
X06	7833	28-12	1030	Fri	Sequence: 256134 (Russian embassy Abidjan)
X06b	13538	9-12	1200	Sun	Sequence: 111666 before XPA2
X06b	14538	9-12	1210	Sun	Sequence: 111666 before XPA2
X06b	12217	14-12	1314	Fri	Sequence: 111666 before XPA2
X06b	13884	14-12	1315	Fri	Sequence: 111666 before XPA2
X06b	12217	14-12	1318	Fri	Sequence: 111666 before XPA2
X06b	13884	14-12	1318	Fri	Sequence: 111666 before XPA2
X06b	15967	14-12	1322	Fri	Sequence: 111666 before XPA2
X06b	14538	16-12	1219	Sun	Sequence: 111666 before XPA2
X06b	14538	16-12	1222	Sun	Sequence: 111666 before XPA2
X06b	14538	16-12	1225	Sun	Sequence: 111666 before XPA2
X06b	15967	16-12	1316	Sun	Sequence: 111666 before XPA2
X06b	15967	16-12	1318	Sun	Sequence: 111666 before XPA2
X06b	5823	17-12	1841	Mon	Sequence: 111666 before E07
X06b	6823	17-12	1843	Mon	Sequence: 111666 before E07
X06b	14538	30-12	1159	Sun	Sequence: 111666 before XPA2
X06b	13528	30-12	1200	Sun	Sequence: 111666 before XPA2
X06b	14538	30-12	1203	Sun	Sequence: 111666 before XPA2
X06b	13528	30-12	1204	Sun	Sequence: 111666 before XPA2
X06b	14538	30-12	1207	Sun	Sequence: 111666 before XPA2
X06b	13528	30-12	1208	Sun	Sequence: 111666 before XPA2

XM

6961.5 kHz, 03-12, 1226 UTC, LSB Odd feedback sounds
6961.5 kHz, 03-12, 1314 UTC, LSB Odd feedback sounds

11531/12137/13932 kHz, 04-12/06-12, 0800/0830/0850 UTC

395 395 395 1 395 395 395 1 395 395 395 1
00261 00153 25730 40941 18014 64099 21562 65715 39095 08519
99155 68659 80584 24602 80690 64485 15531 45305 84870 60166
58212 94672 55765 32857 54039 23455 63202 47655 28915 17166
26792 09092 74105 69929 81825 85532 72034 76938 34049 70844
73849 83242 06569 68942 47644 17304 74477 71970 68269 70818
14443 54766 63472 16168 39772 58520 76961 22973 76633 61281
47408 88352 70578 23374 34178 86283 75892 81768 96931 17639
01045 59133 92204 57302 53759 78855 91163 81507 67161 04616
33716 30446 59581 74513 05210 02397 75311 11761 05181 73786
07720 57351 35996 29010 21909 22271 20734 69255 63059 31281
90620 25063 20027 40262 60207 64343 66908 79383 24870 29031
11954 07780 48260 51211 36055 56746 36602 33525 54236 39786
92037 87004 66683 69279 86250 58376 27844 93387 05119 63864
32155 10265 75527 69701 47031 05041 25284 23681 22025 17236
78645 33785 59955 74306 95688 68115 20805 41488 99585 91124
14655 21032 29723 45585 06002 43557

11531/12137/13932 kHz, 11-12, 0800/0830/0850 UTC

395 395 395 000
08115 00001 00000 34261

11531/12137/13932 kHz, 13-12, 0800/0830/0850 UTC

395 395 395 000
03145 00001 00000 34257

11531/12137/13932 kHz, 18-12/20-12, 0800/0830/0850 UTC

395 395 395 1 395 395 395 1 395 395 395 1
03923 00141 92988 39664 05079 54770 52394 61220 12887 07293
92928 87127 39227 38560 64486 35749 88814 03095 06451 96085
22499 14845 13267 67607 72102 86013 42900 78500 55846 38169
04193 17314 47316 25816 90448 86234 22751 38288 25268 44961
62878 51442 45429 28563 30979 76601 18475 23551 05679 63875
95688 10699 51832 24311 07365 35590 52317 79096 94085 87522
40486 31832 62515 53129 40297 50093 87983 56069 97557 08549
07413 53435 09559 16789 04374 84012 92235 49411 93261 31051
34538 03761 47819 80422 98543 53260 53896 72368 84682 83008
64233 62212 56691 82943 35649 55055 56425 63576 83205 83773
58361 29814 58504 36281 43358 88802 57296 41886 21470 97496
02388 82323 56911 07241 82001 83903 99175 62649 01683 84516
38248 06742 56302 73935 63768 62944 66816 87658 82602 39120
90802 76739 06321 52476 86079 62401 92609 76014 44477 99313
28874 14500 21641 62532

11531/12137/13932 kHz, 25-12/27-12, 0800/0830/0850 UTC

395 395 395 1 395 395 395 1 395 395 395 1
07712 00097 61921 09673 15076 09626 89500 88084 59693 33978
64735 98683 01997 30885 94544 69135 90742 50372 24138 24572
66856 94299 33161 14788 99949 42476 09165 81968 09739 30576
21023 87414 49138 38933 79734 08370 30537 48257 06408 01664
07805 58187 82206 68716 55293 65279 82641 61234 76235 37364
15544 45577 40782 87479 40914 48958 45900 27278 06706 54348
10753 21783 73907 32316 19599 10957 56630 80312 85015 48579
47962 96726 94852 24472 89807 86672 88002 62674 01926 08398
92648 77035 42838 98584 93276 73741 78034 54938 64551 81421
03332 88753 62981 99242 18391 75602 83733 15485 44402 66750

XPA2

15967/13884/12217 kHz, 01-12, 1400/1420/1440 UTC

04860 00001 00000 35262

14538/13538/12138 kHz, 02-12, 1300/1320/1340 UTC

01400 00001 00000 33252

10278/12178/13478 kHz, 03-12/05-11, 0800/0820/0840 UTC

01101 00201 17997 05904 89256 05114 34113 31863 04494 88478
80497 93863 20377 46771 94278 18535 76332 00404 57344 21025
26231 06321 19302 70502 11143 53955 74349 87654 66980 93123
91557 19243 24486 00935 96052 35428 99835 16764 72706 21618
31530 36914 99849 66989 07931 08455 57615 73414 61592 54101
05494 61901 63440 69236 59248 05216 16755 49215 58992 65484
05709 98135 08932 02733 28593 98326 76526 05165 35202 69724
10586 45896 06967 04406 77044 61444 01089 36714 54129 92784
09166 04604 06814 37582 08394 79531 00960 66456 94835 35435
10545 64056 79529 87897 73593 61960 43992 65062 84177 78842
52296 10987 25971 90074 11343 84663 37717 74813 75201 88009
90688 29283 26828 51905 53325 94900 40089 01340 70680 21273
27019 42734 86567 60866 16954 93418 28282 12679 95543 24440
09193 05385 03184 33067 86387 24220 99149 28774 74411 16405
02780 72844 13160 93996 18311 34151 73697 27131 08626 75079
88805 54462 50777 08397 40792 99285 40338 33615 64863 45804
24319 91496 63496 35505 63669 52201 62082 86510 44564 34301
07130 19519 95621 22745 56810 50538 64349 48527 57351 98431
05707 25403 73665 73243 30161 07897 28226 89557 54228 24862
71451 60775 61446 19652 45259 65747 30739 50038 10573 07297
85961 11399 58421 43157

14538/13538/12138 kHz, 04-12/09-12, 1300/1320/1340 UTC

00463 00073 35891 60624 14619 51909 88733 61156 93411 17078
29186 85344 82063 77980 32691 71682 76301 16624 02441 34312
13720 46367 01847 83948 31106 87679 54068 43800 33007 77905
44721 64730 65391 07671 37681 84093 49848 34411 08942 10010
36206 53107 28247 03718 99054 55855 01463 53719 40365 06463
97208 11459 10574 39593 34041 63342 08582 49370 02011 73128
19530 13081 68659 80610 34870 44566 10392 12759 46906 67928
21027 92422 67567 18480 00531 36154

13562/11583/10281 kHz, 05-12, 0910/0930/0950 UTC

00339 00093 33016 02617 83779 87578 72650 13956 69198 42948
67486 79679 35009 21703 88787 91974 00975 19435 19946 62024
34072 18809 18615 72920 63336 63479 02120 13027754346 40221
85921 54536 72425 14803 66873 73789 94598 35593 74722 01839
49927 72213 20848 94296 84524 84469 96465 86421 01644 23312
73462 70815 48176 28120 33972 63142 62422 80521 27363 36270
16488 35890 36232 43650 87883 09511 37801 44136 58900 95286
69629 77215 08000 85796 65430 48095 23344 84272 76042 02162
21918 84751 16048 93626 90115 10213 51082 06376 90773 04809
42614 81091 50915 76087 28528 64666

15967/13884/12217 kHz, 07-12, 1400/1420/1440 UTC

09581 00001 00000 34271

13919/11519/10719 kHz, 08-12/13-12, 0910/0930/0950 UTC

04239 00107 58829 22490 23366 16352 95719 74749 55265 60651
73339 11083 98925 83692 23588 72401 69303 58814 56986 62257
75394 89532 46692 56133 92069 95870 94161 80533 87258 22263
42405 34008 36611 83871 37888 20476 11511 65555 08141 00964
50787 13317 38353 26832 04972 51557 13343 26106 82809 41657
34296 28873 88172 29004 63568 11890 50132 57591 31285 98943
27385 62025 00640 46732 30747 45415 06971 57030 06111 26897
74922 62104 94293 89393 08793 20781 63698 47353 61171 02023
74945 94844 76152 55952 07570 17499 86427 73390 55413 07180
16655 79476 06631 48631 05298 44778 56565 98734 23653 59646
76451 00735 48599 89995 82690 10796 94980 21168 19318 41021

15967/13884/12217 kHz, 08-12, 1400/1420/1440 UTC

02703 00001 00000 36252

10278/12178/13478 kHz, 10-11, 0800/0820/0840 UTC

01112 00001 00000 32652

13562/11583/10281 kHz, 10-12, 0910/0930/0950 UTC

01177 00001 00000 35260

14538/13538/12138 kHz, 11-12, 1300/1320/1340 UTC

08385 00001 00000 35270

10278/12178/13478 kHz, 12-11, 0800/0820/0840 UTC

09093 00001 00000 22672

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

07236 00001 00000 35262

15967/13884/12217 kHz, 14-12/15-12, 1400/1420/1440 UTC

00258 00075 98269 59818 45827 07434 53435 15862 73122 39724
31511 24883 60003 60894 45395 50342 29501 83607 04586 96660
74190 26813 52382 69556 07994 93092 77415 53702 48378 39846
61672 98231 28401 27938 68518 83407 59729 94536 00992 78829
12356 80871 11112 22395 36552 98029 61647 48285 55262 01234
57259 31132 12002 09083 94985 23631 53777 65231 31245 35039
71532 57633 44011 70495 08670 68886 08409 60943 13789 66533
31918 04555 45406 85164 50657 28234 97736 27163

13919/11519/10719 kHz, 15-12, 0910/0930/0950 UTC

03584 00001 00000 35663

14538/13538/12138 kHz, 16-12, 1300/1320/1340 UTC

07392 00001 00000 33670

10278/12178/13478 kHz, 17-11/19-12, 0800/0820/0840 UTC

03993 00163 41726 93739 01667 72044 20326 33241 25204 40322
01572 89233 00626 70778 64772 46340 63210 52476 36233 21480
19475 69452 11195 89946 65056 93930 44844 13303 23509 90200
62167 51681 54868 82739 33507 70441 50674 31335 43124 61567
48506 15759 99760 30030 52447 35999 76331 16105 72473 55331
45274 05973 33804 46604 05514 88388 50641 75383 39332 38882
55890 68018 74274 36177 48179 49706 34300 11634 11264 46756
39783 43318 47093 13664 69903 80657 50332 97086 18739 54397
40321 81397 49433 82654 84954 21267 80081 97765 12909 99777
55041 32728 01242 52963 96521 33874 37559 27067 62128 29095
03405 72996 77195 29580 34644 81757 65928 78811 28750 48736
78025 04879 22394 41824 23817 47311 65683 97256 27731 50541
39720 00598 91873 36526 99615 07656 29683 40525 54920 25013
08164 31228 79379 97128 15634 56944 54120 62354 66319 89398
69493 39889 74697 19735 63641 88851 29790 09190 83349 50163
25818 78897 29686 06232 40221 83092 71616 64704 32752 69166
44373 06626 95056 11956 23533 53743

13562/11583/10281 kHz, 17-12/19-12, 0910/0930/0950 UTC

04187 00131 96926 74421 62611 12241 14715 03666 52079 25404
74429 29362 93596 79618 91960 18625 933794 4655 60263 43808
11779 38691 02471 16134 46419 60878 87474 71897 01976 01193
19790 33705 89272 06053 49552 04406 37875 27486 54420 77847
05591 44845 11425 97508 50832 83444 81751 68909 59704 23058
99309 93334 73293 11304 03742 93915 56212 17382 47059 26059
41092 47245 88113 25321 14288 86131 01440 66541 13653 95354
49549 31160 38424 71398 88153 12921 04306 15757 56294 53035
14432 54579 61247 56249 88693 74373 41886 72689 29992 32091
28807 96449 23820 24056 34432 05125 18371 27019 54611 75791
63514 55924 65765 60053 06211 37883 51726 10804 25214 13105
79469 93402 75778 29681 26091 05438 95665 14544 09303 34957
32999 54379 20303 42358 46235 03893 43270 79322 88799 33576
58712 64689 28702 55122

14538/13538/12138 kHz, 18-12/23-12, 1300/1320/1340 UTC

07326 00081 76248 15466 86462 32781 91115 68864 20967 65745
16691 88505 59619 20237 48707 22041 82793 22187 02153 97080
18537 05447 94526 27561 23480 75482 82824 87521 97771 96946
72011 73169 28884 15272 98088 09958 57362 80464 88816 71429
76379 88092 34998 76712 11380 09651 85802 83346 05809 41058
90875 34691 36880 97337 31441 57288 41143 36482 39206 93008
11327 81940 49676 35685 23504 90898 53157 27646 68614 65008
51311 52095 32367 96028 88329 40660 55489 73790 18182 74483
60033 84431 00734 73230

13919/11519/10719 kHz, 20-12/22-12, 0910/0930/0950 UTC

08464 00091 90033 88004 46528 11428 56929 98771 06068 27424
78665 71473 79445 97663 77258 07556 34189 41660 25266 75185
95845 93227 56548 38405 91094 47828 57376 60365 62887 25114
07445 81271 63914 79541 28123 31917 80549 30923 22784 62822
94935 31515 72886 75450 41164 78666 10618 24304 24808 85501
85231 75818 78947 12903 65151 54074 52581 17236 50396 62088
00452 25513 58200 37601 44305 11210 26015 60906 95597 25373
47254 85579 15847 66648 79788 55334 04187 14766 97112 50471
57309 08367 35875 09904 55910 05024 46488 82373 32787 92339
47998 36976 03824 73323

15967/13884/12217 kHz, 21-12, 1400/1420/1440 UTC

06442 00001 00000 34262

15967/13884/12217 kHz, 22-12, 1400/1420/1440 UTC

09036 00001 00000 34264

10278/12178/13478 kHz, 24-12/26-12, 0800/0820/0840 UTC

01557 00175 23810 25001 38941 44559 99038 50141 37097 87200
59674 14600 61150 60931 85759 75860 78828 90156 55199 63164
90605 02020 09446 38673 78472 94205 75606 78722 80200 06541
64527 99618 65946 85162 23705 69856 37081 57164 25272 71882
66950 27391 00505 12422 64803 34064 53967 21314 59631 31812
89056 11423 95656 49832 89390 24463 95317 09464 81815 84632
90396 71880 66598 66872 16561 32654 92945 43840 35378 47159
61179 63230 62326 41391 27526 29251 83213 48342 36595 08830
31707 29284 44928 80093 55936 10316 95669 94199 60557 71067
40972 87432 42156 02015 12357 98431 94876 75016 50663 75318
10828 45939 04139 75919 55613 33844 50704 20567 97194 97312
53703 39590 80914 04150 96236 89547 90300 20419 95872 59432
47501 75744 41976 36980 63191 24792 27213 30314 08332 69601
85113 50540 66816 17067 68337 05166 02180 95964 73749 49217
87648 05854 75982 79883 89161 73662 19222 93088 97530 00005
22987 98735 28827 06074 62090 89144 44390 15060 10628 86304
92610 77489 56192 22645 17303 98855 63760 42563 25683 34927
83679 30463 24600 59497 39797 09638 88669 14205

13562/11583/10281 kHz, 24-12, 0910/0930/0950 UTC

05840 00001 00000 35261

13562/11583/10281 kHz, 26-12, 0910/0930/0950 UTC

07484 00001 00000 35267

13919/11519/10719 kHz, 27-12/22-12, 0910/0930/0950 UTC

06954 00001 00000 37663

15967/13884/12217 kHz, 28-12/29-12, 1400/1420/1440 UTC

00208 00093 02257 60726 60150 61494 26193 06195 53376 56894
33850 31732 06219 08604 52257 48111 83605 00792 59337 29643
40979 83720 98333 01249 64189 86933 75830 96249 02124 98153
03062 12208 59750 46276 52094 27980 10652 67029 48724 67278
43921 94684 89760 57187 31089 65873 38141 89399 93652 57748
26576 15597 32948 64424 30364 43495 91871 18442 94213 51992
74813 79038 56576 52554 96011 29519 33746 13796 77083 26223
48613 39193 42777 98072 10078 82028 60344 97307 12300 60176
38714 34988 02821 71374 47730 19421 34405 49197 48041 82341
25156 11793 54166 55138 30883 75651

13919/11519/10719 kHz, 29-12, 0910/0930/0950 UTC

04864 00001 00000 37262

10278/12178/13478 kHz, 31-12, 0800/0820/0840 UTC

07088 00001 00000 35267

13562/11583/10281 kHz, 31-12, 0910/0930/0950 UTC

03031 00001 00000 31656

F11

9370 kHz, 10-12, 0845/0850 UTC. A very unusual message.

0353 0353 0353 0353 0353

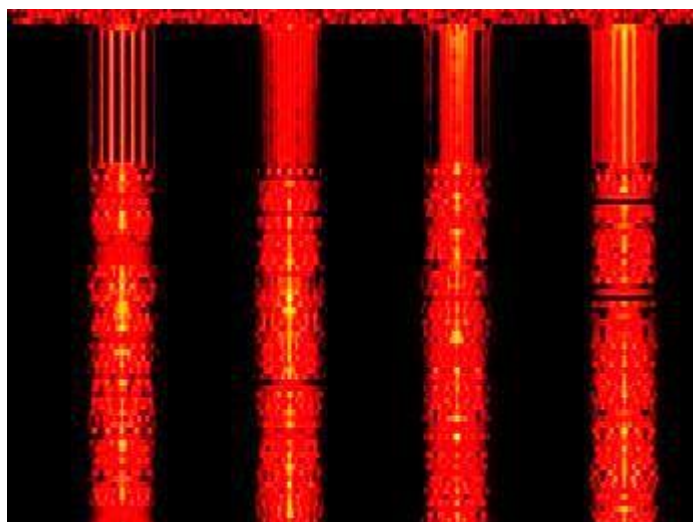
08964 24716 00512 00000 00000 08193 00000 00064 61896 31176
34713 25740 37266 00000 00000 00000 08193 00000 00064 35368
16937 00165 42132 04754 03889 40039 25667 11417 50739 53568
35368 16906 00133 09348 04236 00330 21012 37956 46245 08520
20800 35368 29132 00281 09348 08338 00634 21108 37506 25761
10048 35392 61992 16494 00261 09348 16530 01090 21140 37505
09377 10561 02560 33320 16939 00516 09348 32914 02122 53908
37124 42149 10570 01024 33320 16937 33316 08996 62604 03889
21108 37123 08985 10035 50240 33231 16840 33305 00000 00000
00000 16384 00768 00000 00000 03072 00000 00000 00000

It seems to be a binary message where every 5FG contains 16 bits. You can tell from every group being smaller than 65535 ($2^{16}-1$) and some groups being nothing more than powers of two (00064, 00512, 01024, 16384). Thanks to Danix who figured it out.

Both F11 and E11a did not show up for the repeat of these transmissions on 12 December.

F11 disappeared from this timeslot after the transmissions on 10 December.

POL



8180 kHz, 05-12, 0950/0955 UTC, FSK-4 100Bd

8180 kHz, 12-12, 0950/0955 UTC, FSK-4 100Bd

8180 kHz, 19-12, 0950/0955 UTC, FSK-4 100Bd

8180 kHz, 26-12, 0950/0955 UTC, FSK-4 100Bd

DIPLOMATIC STATIONS

Egyptian diplomatic stations

4648.7 kHz, 11-12, 1838 UTC, SITOR-B 100/170, i.p..

PPPBA 82602 00099 AB389 4F7E9 1C305 78A62 0F14D
BD010 5957E B2FEE 1479C DWYWU RQDD4 EC77D 69E7D
48C26 B83 84127 40A7E 401NG PF4E2 934E9 457DE
D497D 24238 DCC1F 1997E 4ABBD 1C07B E26&0

Czech diplomatic stations

10165 kHz, 21-12, 0820 UTC, Pactor-III. OLZ85: Czech embassy, Tbilisi

#EASY#

#DIR#

#CONEASY#

#EASY#

#DIR#

#CONEASY#

#BEGINDIR#

A8n2EO 1 21.12.2018_8:17:29

#ENDDIR#

#QRV#

#CRCOK#

#BEGINDIR#

A8n2EO 1 21.12.2018_8:17:29

MO_XX_LOG_2018_3.bin 10748 21.12.2018_8:20:02 #ENDDIR#

Standby for the following file from OLZ85 MO_XX_LOG_2018_3.bin 10748 bytes

#BINR#MO_XX_LOG_2018_3.z~~ 10925 MO_XX_LOG_2018_3.bin 10748 PK

<encrypted file>

é\®#BEGINDIR#

A8n2EO 1 21.12.2018_8:17:29

MO_XX_LOG_2018_3.bin 10748 21.12.2018_8:20:02 #ENDDIR# #QRV# #CRCOK#

11475 kHz, 21-12, 0842 UTC, Pactor-III. Czech diplo

#EASY#

#DIR#

#CONEASY#

#BEGINDIR#

n2l5Yl 1 21.12.2018_8:42:29

#ENDDIR#

#QRV#

#CRCOK#

#QRV#

#CRCOK#

#QRV#

#CRCOK#

UTILITY ROUND-UP

North Korean Military

4930 kHz, 01-12, 0912 UTC, CW, i.p.

VVV BW3 (X3) DE 53G (x2) QRU

4517 4517 SK SK TT

4696.5 kHz, 01-12, 0915 UTC, CW, i.p.

928 K

QTC 03 F 14732 24 1 12 66928 K

?

VVV

VVV VHB DE 2SN QSA 0 QSA 0 QTC 03 F 14732 24 1 12 66928 K

3556 kHz, 01-12, 1554 UTC, CW, i.p.

79590 61058 24095 69473 41835 86362 00263 77530 25898 99554
13889 71563 70571 76405 28014 30716 12626 05045 58368 38230
31626 47127 56435 78379 94594 78003 24490 82689 10650 80572
23856 93936 05438 44661 14732 11854 49354 68054 65750 77714
00295 44937 48236 14839 71299 33200 48841 01335 86433 03068
83767 31195 52828 32564 31794 14892 38959 2.949 68181 82479
.9609 68355 1009.. 1775 70141 88513 43622 03453 04457 03053
31500 41 73926117 09447 50094 93525 05594 82086 89137 19826
10174 K
ABV ABV
ABV NR NR 52 16 245 1201 2330 4546 =
4231 4A7ND 57D5T DNN7N DD63D U7U6T 47D5T AAA33 5D546 453U7
3U57 TANUA T3TT54 TTDU5 7NA7A N6T6T 6675N (Cont'd)

3230 kHz, 05-12, 0905 UTC, i.p.

VVV ZVL DE I44 QSA ? K

5886.5 kHz, 14-12, 2307 UTC, i.p.. North Korean military (tentative)

VVV CQ (x3) DE VSB (x2) QSA ? K
7W4A 74A
VVV 74A (x4) DE VSB (x2) QSA ? K
VVV 2SN (x3) DE VSB (x2) QSA ?

4682 kHz, 14-12, 2318 UTC, i.p. North Korean military (tentative)

VVV CQ (x3) DE 94U (x2) QSA ?
OK 24 7... ? OK FFF QSX 0900 ?
OK FFF QSA 2 QSA ?
OK FFF T145?
FFF QSA 0090 K

3254.6 kHz, 22-12, 0827 UTC

VVV CQ (x2) JW6 (x2) QSA ? K

4102 kHz, 22-12, 0836 UTC

26 50318 70768 60523 40469 K
VVV 7T 9 GA GA GA Z4? EEEE 18481 .. 9 60668 GA 146. GA 84.0 GA 24.. 19..9 K
SK SK

Unid station

6742 kHz, 02-12, 0130 UTC, CW, i.p. Logged by JPL in Siberia

VVV HMZQ DE HMZ99 QSA ?
VVV HMZQ DE HMZ99 QSA ? K
VVV HMZQ DE HMZ99 QRK ? K
VVV HMZQ DE HMZ99 QRK ?
VVV HMZQ DE HMZ99 QSA ? K
VVV HMZQ DE HMZ99 QRK ?

6742 kHz, 05-12, 0058 UTC, CW, i.p. Logged by JPL in Siberia

V HM.. DE HMZ99 QRK ? K
AGN
NIL
OK GB VA EE

Can anyone identify this station?

JCS Foxtrot Messages & Emergency Action Messages

Joint Chief of Staff Emergency Action Messages and Foxtrot Messages

Frequencies: 4724, 6712, 6739, 8992, 11175, 13200, 15016 kHz

Date	UTC	Callsign	Message
01-12	0148	Treasurer	30 chr EAM for Daddy Bear 4UA3TJ BN15Q4OC2VRW2E5KHCPCHCYN
01-12	0201	Treasurer	36 chr EAM 4U2EH7 ZTG5C2L2LCUF3M2JE4TPD5352X5K3M
01-12	0213	Treasurer	36 chr EAM 4UAVUV KMAT4IXDONI3TXUVRJQJCVJ3VKBMT
01-12	0234	Treasurer	40 chr EAM 4U56LK WDZBVZUKFMRBQ5M5SWH77YB6HRPF71BFX6
01-12	0306	Treasurer	30 chr EAM LZFCM3 XBK5KSUTJUO36IPYIAD4CBY
01-12	0321	Treasurer	Skyking message: Rush Time 21 Auth NZ
01-12	0444	Andrews	Skyking message: Poison Time 44 Auth JQ
01-12	0720	Treasurer	30 chr EAM LZBHOF MWEEQREF4QAAHA42RXXTLDNK
01-12	0723	Treasurer	30 chr EAM LZS3LW 7UXH572LUZXODNQ2EHPX2BOT
01-12	0737	Treasurer	30 chr EAM 4U4YQ6 E2AGXGEZTMXMPYU64RYKWSXY
01-12	1435	Treasurer	30 chr EAM LZQZTX 6FIAHJHH32HFA2VBPSB6OF2D
01-12	2356	Treasurer	30 chr EAM LZIY6V DDGI4OZYKP4YMT6TNGTHQ7KR
02-12	0000	Legament	30 chr EAM LZYAGF EYENPFHX72JKAERNKWG6IEFN
02-12	0242	Legament	30 chr EAM LZKDWK C2X3OJ7UVYRRREMSYQHGCY7
02-12	0723	Legament	30 chr EAM LZMMA5 3LRIQR3IFLJ4EA3VNGHGTDCN
02-12	0731	Legament	30 chr EAM LZMMA5 3LRIQR3IFLJ4EA3VNGHGTDCN
02-12	0743	Legament	30 chr EAM LZXKLF 4KCHERTWM2CHJAO3IPEDBUQW
02-12	0750	Legament	30 chr EAM LZTMNM KG3BQBNEY6F5NMCE3KAYINMJ
02-12	1530	Legament	30 chr EAM LZ32AP VZ3S3WYEZE724AQ6EKL5QOVX
02-12	1535	Legament	30 chr EAM LZC6ML MEFWLB2E6F3ZNEW7SXZ3JB26
02-12	1539	Legament	30 chr EAM LZFLIB RT silence JUNPP53XYL5EQ
02-12	1550	Legament	30 chr EAM LZ7ZJB SSIYDKLBDG4WKHQD4ENA5DR
02-12	1553	Legament	30 chr EAM LZMLAN ZLUJRJJF4TUA4YBH2SWU3XCN
02-12	1558	Legament	30 chr EAM LZEJ4U BYTQZ5IQKQUITULMKBAJAN3G
02-12	1604	Legament	30 chr EAM LZMLAN ZLUJRJJF4TUA4YBH2SWU3XCN
02-12	1606	Legament	30 chr EAM LZ7ZJB SSIYDKLBDG4WKHQD4ENA5DR
02-12	1608	Legament	30 chr EAM LZFLIB RTRQCTUFAWHJUNPP53XYL5EQ
03-12	0243	Red Apple	30 chr EAM LZVSQ3 GTOS3ASCLWLFMOEWD05XUJ6I
03-12	1338	Red Apple	30 chr EAM LZGQEC YJFK4IX2R2Q72X6SOPUFPS3H
03-12	1342	Red Apple	30 chr EAM LZGQEC YJFK4IX2R2Q72X6SOPUFPS3H
03-12	1344	Red Apple	30 chr EAM LZVIXY IDBRVBKHHHR6ONV4V5XQLUZZ
03-12	1400	Red Apple	30 chr EAM LZ4BS VLN2ANZIC4H3ZM3AAWFQRBJO
03-12	1404	Red Apple	30 chr EAM LZVBUO KCMIS3A7GGGSUKUSVAZWSLBX
03-12	1408	Red Apple	30 chr EAM LZOTZL SXRKCT7BG23HC3L4QREH7I4A not repeated
03-12	1410	Red Apple	30 chr EAM LZOTZL SXRKCT7BG23HC3L4QREH7I4A
03-12	1413	Red Apple	30 chr EAM LZCULQ Z5DF7JTJIVKK64J53GO5TNJW
03-12	1419	Red Apple	30 chr EAM LZFKTI JB2JBEZGTTNGEWCIM4I2XNKY
03-12	1430	Red Apple	30 chr EAM LZWSEO UA327S4XY2KBSLLWJFGXYAZF
03-12	1627	Red Apple	30 chr EAM LZT776 3GIO2QXFNR7G76RSVXNJYZQ
04-12	2243	Tea Tray	59 chr EAM NPQBCM JY75CP4HN6TXJ7XNYXIXNP6BN6TXCEL4P4ZPPDP3UI4P4LMM4FKL2
05-12	0011	Andrews	Skyking message: Stone Time 11 Auth IB
05-12	0117	Rotarian	36 chr EAM NPBTMY MZH6C5S5BZH3NO5HDOJMKMTESNZQXIO
05-12	0123	Rotarian	40 chr EAM NPD4GQ QJFHN3QJDXMUVE2LJR7FIUAGYKNV2YAZC
05-12	0139	Rotarian	36 chr EAM LZSJDB ZYEJ2HDZYQP3OTA5OCFUOT64
05-12	0143	Rotarian	36 chr EAM LZNNW6 L2JDKSCCOR7VGNMLN6NKM2U4
05-12	0155	Rotarian	36 chr EAM LZD5FD ZJPI4KF6DL3EVRDMU24A6MN2
05-12	0200	Rotarian	36 chr EAM LZZ7ZO UOVIBH36WLKXGXA2DYL2V4RO
05-12	0203	Rotarian	36 chr EAM LZAHJK XEOZ5FXQJF5FWMLGQTU74E
05-12	0212	Rotarian	36 chr EAM LZDW6F NUJ3ZNL5JZJX6AWVUDUHAJDQ
05-12	0409	Andrews	Skyking message: Safety Time 09 Auth JZ
05-12	0614	Andrews	Skyking message: Radio Head and Full Back Time 14 Auth HJ
05-12	0619	Andrews	Skyking message: Pearl Jam and Quarter Back Time 19 Aut EE

05-12	0634	Andrews	Skyking message: Weezer and Tight End Time 34 Auth LA
05-12	0636	Andrews	Skyking message: Radio Head Time 36 Auth MD
05-12	0704	Rotarian	30 chr EAM LZ3MPK WW65VAV5S454VKZEUZNEGU2Y
05-12	0728	Rotarian	30 chr EAM LZKPWP ARUNICQUFPSE7GSPJ6IR6Z3Y
05-12	0732	Rotarian	30 chr EAM LZKPWP ARUNICQUFPSE7GSPJ6IR6Z3Y
05-12	0734	Rotarian	30 chr EAM LZ3MPK WW65VAV5S454VKZEUZNEGU2Y
05-12	0752	Rotarian	30 chr EAM LZOSSY UZPE7OQ4AEJXARSTYTYBCUTV
05-12	0755	Rotarian	30 chr EAM LZY2Y4 AR24WPOSVOMHBIDXAN5SNGT3
05-12	1704	Rotarian	30 chr EAM for Arlen-25 NP5WDS 5N7DZUREM6E2LWABRAD6VKYN
05-12	1734	Rotarian	30 chr EAM LZCPGI 3US2JFLTPO4FFESFJYWUBJS4
05-12	1737		Fence Wood clg Rotarian and asks to repeat character 25. She tried to reach Rotarian for almost 25 minutes but both stations did not hear each other. At 1751 she read the same EAM.
05-12	1751	Fence Wood	30 chr EAM LZCPGI 3US2JFLTPO4FFESFJY character 25 garbled, character 26 Uniform JS4
05-12	1804	Rotarian	30 chr EAM LZOYTA N5PRLZJOVV5ZRQCJIJGKS40
05-12	1820	Fence Wood	30 chr EAM LZCPGI 3US2JFLTPO4FFESFJYWUBJS4
05-12	1830	Wolf Bait	30 chr EAM LZOYTA N5PRLZJOVV5ZRQCJIJGKS40
05-12	1850	Fence Wood	30 chr EAM LZCPGI 3US2JFLTPO4FFESFJYWUBJS4
05-12	2310	Rotarian	30 chr EAM LZTDWA FLK4HBN327RJRCJKJPCZHRXF
05-12	2313	Rotarian	30 chr EAM LZWI2Q AQXXUMPRF5ACYF642KUI36S5
05-12	2316	Rotarian	30 chr EAM LZCTFI Q5XIIGN2PCX26VOMIBGVUNTE
05-12	2328	Rotarian	52 chr EAM NPWPRZ UP5Z2JKEBU3YU2WV3JQ42XVDY6BWX2WV3XQ2SQ7G4YMWI3
05-12	2332	Rotarian	30 chr EAM LZQ6TI D5ILT5FGVCOF432C6KOTRJ5Y
05-12	2334	Rotarian	30 chr EAM LZDM6E CFX4RO4Q6VS3HGDTEHJY2HWO
05-12	2336	Rotarian	30 chr EAM LZ46N5 TFLNLVB65K6N3KDAVMGIKF3Y
05-12	2357	Rotarian	30 chr EAM LZW3SZ EDFJLQFTHTFIGDJOA7HZEWI
06-12	0000	Deletion	30 chr EAM LZX574 NB4LVV4OQSEWXKZZVP6EOG2R
06-12	0008	Deletion	30 chr EAM NPOYPK EJGSQCZ73Y464MSYSPEEX25I
06-12	0011	Deletion	30 chr EAM LZKHDQ 3EVIFEGRADP5EKPZ5XBQROS7
06-12	0019	Deletion	30 chr EAM LZWHSF KQD6L6LBAUR4QJEOJKUCXP7N
06-12	0256	Deletion	Skyking message: Pixies Time 56 Auth PI
06-12	1233	Deletion	30 chr EAM 7EYX4O JCLBN7MPD72GY2QCX4Q7KSIT
06-12	1238	Deletion	30 chr EAM 7EPYA7 CMGCACBERWNAY4JCIWAEJSO2
06-12	1603	Deletion	52 chr EAM NPAWV6 JNDW2TX4QOE7KKVSKE4T5OFQT26WWEVSKP4RVPSCNNYC2F
06-12	1629	Deletion	30 chr EAM NPH576 HBJ55XBVQSXWVL43MDUSNGHU
06-12	1649	Deletion	30 chr EAM 7EILVR GU3EOANYONZFHEHPREG4XARE
06-12	1654	Deletion	30 chr EAM 7EMEYM DOYCAMFTJZK24ZCCCLKFXJBQ
06-12	1705	Deletion	30 chr EAM NPR6DE 4RHMTXPE6NNRHMNMMDQNT4FQ2
06-12	1708	Deletion	30 chr EAM 7E5M6A SUAJV2QTNL5AYBXHM7F2NXMD
06-12	1733	Deletion	30 chr EAM 7EUMWL HHVXKJDSZKNOSCR7YADXC7PY
06-12	1959	Deletion	30 chr EAM 7EUMWL HHVXKJDSZKNOSCR7YADXC7PY
06-12	2248	Deletion	30 chr EAM NPDWPB ZR424BT62RMSWRLYR3LAKL3Z
06-12	2304	Deletion	36 chr EAM NPWTGZ 4LWZSPL6N3EA7JXGD7U5X57J37XI5
06-12	2308	Deletion	36 chr EAM NPWTGZ 4LWZSPL6N3EA7JXGD7U5X57J37XI5
06-12	2315	Deletion	36 chr EAM NPXXWL BX5YFRCTNB4VZD4TN6OGGXN6E2ZDEW
07-12	0233	Acid Test	30 chr EAM 7EB6R3 Y2RTKQYPGQWBSKSDQUECANZX
07-12	0719	Acid Test	30 chr EAM 7EEQF3 ZYB4VLIA3U6IGQSOBZRUG75
07-12	1542	Acid Test	30 chr EAM NPU2EL XFR6SW5MDVSMK2H42EMZM263
07-12	1627	Acid Test	36 chr EAM NPFV5D 2ANRP2JRYOQWHJYWSPIEJJJT7WFJ1
07-12	1656	Acid Test	30 chr EAM for Coral Snake NP3Z7S LZ5FGMBBDRORHRCVLDIVVBEI
07-12	1728	Acid Test	43 chr EAM NPC5AE BMNAIAX7OFSPCLBBY7UOFY234EVTUTM74WFWU
07-12	1753	Acid Test	30 chr EAM 7E5ORX 6YHO3FGPC654EQ3ZMUMVHPKU
07-12	1803	Acid Test	30 chr EAM for Pub Patron, for Ricardo NPH6A3 WBZTLKWKSRLERTRRIDHAQZY3
07-12	1813	Acid Test	30 chr EAM for Gallop NPRO2Y XTP5Q7MHMBIVT5R6WW6SNJFV
07-12	1832	Acid Test	30 chr EAM for Gallop NPLE5M 4Y56GVXS6HOJ4BCNPZPOGDRM
07-12	1858	Acid Test	30 chr EAM 7E5ORX 6YHO3FGPC654EQ3ZMUMVHPKU
07-12	1925	Acid Test	30 chr EAM for Pub Patron, for Ricardo NPTBGD IKSJGDAYKO3HLMTX42V74ZJ
07-12	1931	Acid Test	30 chr EAM 7E5ORX 6YHO3FGPC654EQ3ZMUMVHPKU
07-12	2000	Acid Test	30 chr EAM 7E5ORX 6YHO3FGPC654EQ3ZMUMVHPKU
07-12	2030	Acid Test	30 chr EAM 7E5ORX 6YHO3FGPC654EQ3ZMUMVHPKU

07-12	2216	Acid Test	30 chr EAM 7EQDZH GDMMEPVEHSYE7SHVSL3FJ62T
07-12	2232	Acid Test	30 chr EAM 7EQDZH GDMMEPVEHSYE7SHVSL3FJ62T
07-12	2300	Acid Test	30 chr EAM 7EQDZH GDMMEPVEHSYE7SHVSL3FJ62T
07-12	2312	Acid Test	30 chr EAM 7EKN4N MHDHSDMA64SAHV7RI7SXJO4Y
08-12	0049	Colonial	30 chr EAM NP6W2K M6JT6PFDYV4PBT7HL5XGEB
08-12	0109	Colonial	52 chr EAM NPCVY6 417VN4TACOKM6VGRQMD5NQTQYIH4ZUX3X2NVYGZHQOQFW
08-12	0124	Colonial	30 chr EAM NPNFFT 7Y7S6LZQP7FUKDBDNKDRXRH
08-12	0132	Colonial	30 chr EAM 7E7WDD ODRFDQWFEFL7K7YWNOKIU6HF
08-12	0155	Colonial	30 chr EAM 7ELVXD QKFP4LPPUXQYFP3H2SBS2TC
08-12	0643	Colonial	30 chr EAM 7E5RUX XOHDCM6ZZJROC2JXL2N7IHGQ
08-12	0647	Colonial	30 chr EAM 7EFXHK RPDVQP6PWGO46FORGUAJNW4
08-12	0701	Colonial	30 chr EAM 7E5PBU CY4CDXJ7YKWKYBMKXLHVJDRMB
08-12	0704	Colonial	30 chr EAM 7EFXHK RPDVQP6PWGO46FORGUAJNW4
08-12	0707	Colonial	30 chr EAM 7E5RUX XOHDCM6ZZJROC2JXL2N7IHGQ
08-12	0731	Colonial	30 chr EAM 7ERQW BWRVFU7ZLMHOXGLVVZIEQRO
08-12	0734	Colonial	30 chr EAM 7EKRUD 2KFZRBQNSAZJDFMNWICJDVP
08-12	0737	Colonial	30 chr EAM 7E5PBU CY4CDXJ7YKWKYBMKXLHVJDRMB
08-12	0740	Colonial	30 chr EAM 7EFXHK RPDVQP6PWGO46FORGUAJNW4
08-12	0743	Colonial	30 chr EAM 7E5RUX XOHDCM6ZZJROC2JXL2N7IHGQ
08-12	0757	Colonial	30 chr EAM 7E73IF KL52CTPNG2H5QV4KVNDQNX36
08-12	0801	Colonial	30 chr EAM 7ENIAG QXJNKD3DGOEEZODUKLZOLTJ6
08-12	0804	Colonial	30 chr EAM 7EH2ZU HGVNQX5FASBJ3QSU2JBFHDRU
08-12	0808	Colonial	30 chr EAM 7E73IF KL52CTPNG2H5QV4KVNDQNX36
08-12	0811	Colonial	30 chr EAM 7EKRUD 2KFZRBQNSAZJDFMNWICJDVP
08-12	0814	Colonial	30 chr EAM 7ERQW BWRVFU7ZLMHOXGLVVZIEQRO
08-12	0817	Colonial	30 chr EAM 7E5PBU CY4CDXJ7YKWKYBMKXLHVJDRMB
08-12	0820	Colonial	30 chr EAM 7EFXHK RPDVQP6PWGO46FORGUAJNW4
08-12	0823	Colonial	30 chr EAM 7E5RUX XOHDCM6ZZJROC2JXL2N7IHGQ
08-12	1107	Volume	30 chr EAM for Gallop NPS2ER 2VH57JNAZ4VIYVWSYMSDGXS
08-12	1116	Colonial	30 chr EAM for Gallop NPKK6S L43GDMJX4YOAZHVDXGYS55CF
08-12	1304	Colonial	30 chr EAM for Gallop NPGXYD WIGTHEKI7ILH7TK7PZGH2576
08-12	1323	Colonial	30 chr EAM for Gallop NP3KCP MIZV5GVAIHNWGOWQHKWMBNKK
08-12	1630	Colonial	30 chr EAM 7EPKIO PPGQF7PKLNLN5IFXGFYLD2HM
08-12	1633	Colonial	30 chr EAM 7ETRPD GA7LVQWBVMVADBJRUOW6SAN
08-12	1636	Colonial	30 chr EAM 7EWXW3 6S6W3SAKGPTHCSN5GHS2ARPL
08-12	1638	Colonial	30 chr EAM 7EYKBQ EHUQCVQQUFXFPQK3Q537SDAU
09-12	2252	Coat Tail	30 chr EAM 7EMOR5 YGYRBTXG2RU45QKG3VUNSXK
09-12	2325	Coat Tail	30 chr EAM 7EK3EZ 6XSB6J6D77ZFMZGYV7CKVOPQ
09-12	2336	Coat Tail	30 chr EAM 7EBFK4 AASXEG6WTQNK6QGYU3ZJGKTB
09-12	2349	Coat Tail	30 chr EAM 7EBII7 FARERT4Y2NC3IH7HIR4DJORU
09-12	2351	Coat Tail	30 chr EAM 7E4VBV BOAUPQLOYF6EEP6ZC6ZS7BU3
10-12	0000	Road Dust	30 chr EAM 7EF6SM IHXNLEQER6JO5GAHWFXIQDUF
10-12	0003	Road Dust	30 chr EAM 7EF6SM IHXNLEQER6JO5GAHWFXIQDUF
10-12	0005	Road Dust	30 chr EAM 7E4VBV BOAUPQLOYF6EEP6ZC6ZS7BU3
10-12	0007	Road Dust	30 chr EAM 7EBII7 FARERT4Y2NC3IH7HIR4DJORU
10-12	0030	Road Dust	30 chr EAM 7EF6SM IHXNLEQER6JO5GAHWFXIQDUF
10-12	0032	Road Dust	30 chr EAM 7E4VBV BOAUPQLOYF6EEP6ZC6ZS7BU3
10-12	0034	Road Dust	30 chr EAM 7EBII7 FARERT4Y2NC3IH7HIR4DJORU
10-12	0047	Road Dust	30 chr EAM 7EEXYU DQOYU7EJ2VQINL22JPBO6AK
10-12	0102	Road Dust	30 chr EAM 7EF6SM IHXNLEQER6JO5GAHWFXIQDUF
10-12	0104	Road Dust	30 chr EAM 7E4VBV BOAUPQLOYF6EEP6ZC6ZS7BU3
10-12	0106	Road Dust	30 chr EAM 7EBII7 FARERT4Y2NC3IH7HIR4DJORU
10-12	0246	Road Dust	30 chr EAM 7EE4LG 55NQ6SYMBGDRAFTJYFVAKNGY
10-12	0704	Road Dust	30 chr EAM 7EACJT NKLVLFT574QVOXOBZB73QD24
10-12	0707	Road Dust	30 chr EAM 7ELOZ2 H7NCNQ23TL76QLZAACLYVTG6
10-12	0715	Road Dust	30 chr EAM 7EUHNS SHRIRA6DWVC6Q4CHXRXYGHW7
10-12	0730	Road Dust	30 chr EAM 7EUHNS SHRIRA6DWVC6Q4CHXRXYGHW7
10-12	0732	Road Dust	30 chr EAM 7ELOZ2 H7NCNQ23TL76QLZAACLYVTG6
10-12	0735	Road Dust	30 chr EAM 7EACJT NKLVLFT574QVOXOBZB73QD24

10-12	1112	Road Dust	36 chr EAM NP7GBT TOFTTSUQM5DGQSATG76XNBGT7BEOUV
10-12	1354	Road Dust	30 chr EAM 7EKYTU PGRIP7CANTFORE3SIETSXO3Z
10-12	1411	Road Dust	30 chr EAM 7EBGMT F3ZFTJKBUTAIBEM57POMIEN
10-12	1414	Road Dust	30 chr EAM 7E37QT WVCARBTPZOTOQUKS6F3HVR3F
10-12	1605	Road Dust	36 chr EAM NPHITV 4V5M2WV3W2466QSAVYRGJLYXDNSBFS
10-12	1754	Road Dust	30 chr EAM 7EWL7G IZGKJASBQXFEN5OZ7MXJY4S2
10-12	1814	Road Dust	30 chr EAM 7EAHCY BKUSDZDZCCCS3BCZL5Y7QSYIT
10-12	1930	Road Dust	30 chr EAM 7ECTZJ OS5TPWULVMISAMJ5IYFBCE4T
10-12	2019	Road Dust	30 chr EAM 7EWF7I QDD3U3FZKXNSCOJGMJHOU6C2
10-12	2028	Road Dust	30 chr EAM 7EZAIE IKMPDALARNDYQZ7DYEUMQZSD
10-12	2039	Road Dust	30 chr EAM 7EUCRI W6ZHUH6GWYXFJ5GYIJ6GNHTI
10-12	2042	Road Dust	30 chr EAM 7ER5N2 DPP2SEJE6EINGMNM23PREUPH
10-12	2049	Road Dust	30 chr EAM 7EJLUG RCYK7EWQLOVTLUYEGMQPOHFL
10-12	2053	Road Dust	30 chr EAM 7E3PFB 3273NF27N4CR54VCN7ZESPX6
10-12	2121	Road Dust	30 chr EAM 7E7KDJ NC7PUHDKJ6SZIWABQUUGC7UNW
11-12	0131	Rich Box	30 chr EAM 7E3ZGA N3GALK42W5YKVYYX4DQQLWCE
11-12	0147	Rich Box	30 chr EAM NPKHOV YG3REXLGGL5OQHSNRKO2JOFN
11-12	0153	Rich Box	30 chr EAM 7ESMRT DLDXNGX4IFRZS2HXOKJDRIXE
11-12	0159	Rich Box	30 chr EAM 7ESMRT DLDXNGX4IFRZS2HXOKJDRIXE
11-12	0214	Rich Box	30 chr EAM 7EV5GZ KXMGQTIQINXLQAOO5ENH53U4
11-12	0712	Rich Box	30 chr EAM 7EZTGZ JQP62PSGCWAFE7GVKVCQULMD
11-12	0714	Rich Box	30 chr EAM 7EX44C OO6YO7HUFPRZCN7O7MFIVWJK
11-12	0719	Rich Box	30 chr EAM 7EE7JQ CBCVTRK2MPRIOIL4VGC7HJUP
11-12	0736	Rich Box	30 chr EAM 7E6LJ5 LKSXRPT3Z243KQQHDBNLVRH
11-12	0744	Rich Box	30 chr EAM 7E4R4C PSWIF7LJAW2MRS6HBWGWQTQ2U
11-12	1548	Rich Box	40 chr EAM NP6MPA JVYBWTBLZLKGDIAG6EMFBB7SCYMQJG3DIWB
11-12	1614	Rich Box	30 chr EAM NPSPGD ESOAEWTTTH2ZL7KWDKE26T3YS
11-12	1618	Rich Box	30 chr EAM for Rupert NP2NHW EIIEYVEBTf2Q37QKDFUQ3QHN
11-12	1621	Rich Box	30 chr EAM for Rupert NP2NHW EIIEYVEBTf2Q37QKDFUQ3QHN
11-12	2153	Rich Box	30 chr EAM for Campus NPLUJC DSKMJ3DZ6ZYS5LOTWINSGAJ
11-12	2207	Rich Box	43 chr EAM NPW3KU ZFNL7E5JC72YHNDFR2TC72YV7DYFEIX2DSPJX
11-12	2246	Rich Box	30 chr EAM 7EROT6 J327SXZD3I4P37DJ3UTBRYOC
12-12	0233	Pancake	30 chr EAM 7ERTUV E2N4DH63LOLSFOYW4X76SCTV
12-12	0557	Pancake	30 chr EAM 7EOW37 AFBGQK5DQJZAVUH2LVX4DSHL
12-12	0612	Pancake	30 chr EAM 7ETN7C JYASQSF2426QBX56GKYSAHWE
12-12	0616	Pancake	30 chr EAM 7EB2UV IRLWUUUB263QYS4SMQTBHV6S
12-12	0630	Pancake	30 chr EAM 7EB2UV IRLWUUUB263QYS4SMQTBHV6S
12-12	0633	Pancake	30 chr EAM 7ETN7C JYASQSF2426QBX56GKYSAHWE
12-12	0635	Pancake	30 chr EAM 7EOW37 AFBGQK5DQJZAVUH2LVX4DSHL
12-12	0647	Pancake	30 chr EAM 7EDCIT CBI3ZURULILSXUMF5D5KIEXA
12-12	0650	Pancake	30 chr EAM 7ECOMR 27P42QQ2CODWY37XPCHV2EMC
12-12	0701	Pancake	30 chr EAM 7ECOMR 27P42QQ2CODWY37XPCHV2EMC
12-12	0703	Pancake	30 chr EAM 7EDCIT CBI3ZURULILSXUMF5D5KIEXA
12-12	0705	Pancake	30 chr EAM 7EB2UV IRLWUUUB263QYS4SMQTBHV6S
12-12	0713	Pancake	30 chr EAM 7EH4SH XDXWTP5JTCHPTFQEP4W5SZUX
12-12	0716	Pancake	30 chr EAM 7ES3ZV 43TIB6T6GQUQMMPBEIN5GLV
12-12	1849	Pancake	36 chr EAM NPUF3Z W7C37WKBZ55K3BVOGQVYKR6DGEKZEQ
12-12	1930	Pancake	30 chr EAM 7EQNQT RW3UGQEDNSIPGCLHZZJQB3Z
12-12	2148	Pancake	88 chr EAM XJODEC DFQFPY2FFXCLARCUHCIVSWABZC4ZGSCDOUWQIFXJHHLXKH3XXXXBNQLRPB7Y7VNN2H5H5U UUU4BJSIVXUT
12-12	2203	Pancake	88 chr EAM XJODEC DFQFPY2FFXCLARCUHCIVSWABZC4ZGSCDOUWQIFXJHHLXKH3XXXXBNQLRPB7Y7VNN2H5H5U UUU4BJSIVXUT
12-12	2234	Pancake	88 chr EAM XJODEC DFQFPY2FFXCLARCUHCIVSWABZC4ZGSCDOUWQIFXJHHLXKH3XXXXBNQLRPB7Y7VNN2H5H5U UUU4BJSIVXUT
12-12	2302	Pancake	88 chr EAM XJODEC DFQFPY2FFXCLARCUHCIVSWABZC4ZGSCDOUWQIFXJHHLXKH3XXXXBNQLRPB7Y7VNN2H5H5U

			UUU4BJSIVXUT
12-12	2331	Pancake	88 chr EAM XJODEC DFQFPY2FFXCLARCUHCIVSWABZC4ZGSCDOUWQIFXJHHLXKH3XXXXBNQLRPB7Y7VNN2H5H5U UUU4BJSIVXUT
13-12	0000	Alphabet	88 chr EAM XJODEC DFQFPY2FFXCLARCUHCIVSWABZC4ZGSCDOUWQIFXJHHLXKH3XXXXBNQLRPB7Y7VNN2H5H5U UUU4BJSIVXUT
13-12	0030	Alphabet	88 chr EAM XJODEC DFQFPY2FFXCLARCUHCIVSWABZC4ZGSCDOUWQIFXJHHLXKH3XXXXBNQLRPB7Y7VNN2H5H5U UUU4BJSIVXUT
13-12	0135	Alphabet	30 chr EAM NPNR7N TRE5MPGHIVQKZK5KPA6SA2XT
13-12	0143	Alphabet	30 chr EAM NPUW6V HGDIC5THESGQ24CNWXB55EQE
13-12	0149	Alphabet	30 chr EAM 7EFH5W UTHFWCHJDXZKGRPMOKQZNER4
13-12	0207	Alphabet	Skyking message: The Who Time 07 Auth SJ
13-12	0208	Alphabet	30 chr EAM 7EIEGM OHZGKNUHQOGR2KBMQMMPKGON5
13-12	0238	Alphabet	30 chr EAM 7EQCF7 PQF5ATPR3CZQ7BD62H5BX27C
13-12	1412	Alphabet	30 chr EAM 7E2NZ4 TE5DA4H6JWWISWBX4Z2IPEJ6
13-12	1415	Alphabet	30 chr EAM 7EW53X 4YGWV3BGFIWKIOVXM2X7Y6C
13-12	1427	Alphabet	30 chr EAM 7EW53X 4YGWV3BGFIWKIOVXM2X7Y6C
13-12	1429	Alphabet	30 chr EAM 7E2NZ4 TE5DA4H6JWWISWBX4Z2IPEJ6
13-12	1846	Alphabet	30 chr EAM 7ERIFU MRWHUNCIL2LUSEAKIMMCRVY3U
13-12	1908	Alphabet	30 chr EAM NP5RTV UG4Z36WHYFJGGTH4MOXO2XCX
13-12	2003	Alphabet	30 chr EAM 7EDFID TTOVGLSOUXJIRIBM4WWZIUPLJ
13-12	2030	Alphabet	30 chr EAM 7EDFID TTOVGLSOUXJIRIBM4WWZIUPLJ
14-12	0244	Ant Bite	30 chr EAM 7EIHOS QOLL6EIHFOO3KQRSQ7BFAIVH
14-12	0618	Ant Bite	30 chr EAM 7EQ6BO 2SA4B5LCS2XWL7RI6Y7DA42O
14-12	0621	Ant Bite	30 chr EAM 7ETUXY 7ON4CINWXG4TCGQU532OJNXC
14-12	0625	Ant Bite	30 chr EAM 7EPIY2 4XCTUQB7H7CWMQIHUA6LTBAU
14-12	0628	Ant Bite	30 chr EAM 7EVECF OALBWAAZKWC43VJTNLSXJHUK
14-12	0631	Ant Bite	30 chr EAM 7EVECF OALBWAAZKWC43VJTNLSXJHUK
14-12	0634	Ant Bite	30 chr EAM 7ERJ3C 7HHAQI4DUODPOWLJ7ME4Z2PV
14-12	0637	Ant Bite	30 chr EAM 7E5SQB EHGVS3KTCHGB4TMQ66GTN65Q
14-12	0640	Ant Bite	30 chr EAM 7EVECF OALBWAAZKWC43VJTNLSXJHUK
14-12	0643	Ant Bite	30 chr EAM 7EPIY2 4XCTUQB7H7CWMQIHUA6LTBAU
14-12	0645	Ant Bite	30 chr EAM 7ETUXY 7ON4CINWXG4TCGQU532OJNXC
14-12	0648	Ant Bite	30 chr EAM 7EVECF OALBWAAZKWC43VJTNLSXJHUK
14-12	0650	Ant Bite	30 chr EAM 7EPIY2 4XCTUQB7H7CWMQIHUA6LTBAU
14-12	0653	Ant Bite	30 chr EAM 7EQ6BO 2SA4B5LCS2XWL7RI6Y7DA42O
14-12	2120	Ant Bite	30 chr EAM 7EHMKZ CTG46IY7D3GXRACCN7JLBXE4
14-12	2328	Ant Bite	30 chr EAM 7EECYG CUR7CEBHNLUKIUCUCF5YCTCB
14-12	2331	Ant Bite	30 chr EAM 7EUQDA U2Q3RAMNBZ5EXD5H5UDENSZ
14-12	2348	Ant Bite	30 chr EAM 7E2EGQ CQ2K6RG7PIIOSNH6P56GLSK4
16-12	0830	Mint Pie	30 chr EAM 74RE4O 2N3OMIQ6TPSLDY6CHFG6SBJF
16-12	0837	Mint Pie	30 chr EAM 747KYT Q4EDVZZ6HTS5PJCQQCEKSUP3
16-12	2348	Mint Pie	30 chr EAM 74GAMC H7PRLQYVQ5EE2VD3DXWVFQTU
16-12	2352	Mint Pie	30 chr EAM 742WAV NF3W4C7CZXLVZYCOKMK5QSWU
16-12	2355	Mint Pie	30 chr EAM 74QNVF DEHBMRLVUA3Q3LJ75XOEZ6N
17-12	0000	Post Stamp	30 chr EAM 74GAMC H7PRLQYVQ5EE2VD3DXWVFQTU
17-12	0002	Post Stamp	30 chr EAM 742WAV NF3W4C7CZXLVZYCOKMK5QSWU
17-12	0005	Post Stamp	30 chr EAM 74QNVF DEHBMRLVUA3Q3LJ75XOEZ6N
17-12	1632	Post Stamp	30 chr EAM for Westend Will ? NPE2RA DXEGBP3B3ROWQI4CDSO6GBHR
17-12	1636	Post Stamp	30 chr EAM for Left-02 ? NPWJOD LL7TXSAKQHEVWD5B6OUPQSU5
17-12	1646	Post Stamp	30 chr EAM for ??? NP54IB P73CTE4DE3IF6NHYDG72BPW5 (very weak)
17-12	1902	Post Stamp	30 chr EAM for Equal-97 NP3PNE S7ZIVBJSTTPCRYALKTW2MXGZ
17-12	1932	Post Stamp	30 chr EAM 74ICYP O3WUF6FWG3HVV4ZUKGCHUJWV
17-12	2041	Post Stamp	30 chr EAM 74DNLL PZR52P5KDPBCF7KZN2ZGTPYA
17-12	2116	Post Stamp	30 chr EAM 74OGIL MEEEE066V6N2JNXFHNONQD65L
17-12	2130	Post Stamp	30 chr EAM 74DNLL PZR52P5KDPBCF7KZN2ZGTPYA
17-12	2138	Post Stamp	30 chr EAM 74JCML 2TUOEACU4AGIQV2BRSWHEGTT

17-12	2220	Post Stamp	30 chr EAM 74GJ7G A5APZI2VIEQFRDFHZRI5XP4S
17-12	2328	Andrews	Skyking message: The Who Time 28 Auth PS
18-12	0112	Andrews	Skyking message: The Who Time 12 Auth LQ
18-12	0146	Late Break	30 chr EAM 74HBVR NXC6NRTFA3X5YWZZ2N2IJBED
18-12	1332	Late Break	30 chr EAM 74NW3S JD6YJMP3UPSQ6NZGXX76ZYWU
18-12	1417	Late Break	30 chr EAM 74SUPX DCWCYYP76CECW5BA6KK76GLX
18-12	1436	Late Break	30 chr EAM 74U5LE DLU7GXHEPC3QOOWJCHOQZFK3
18-12	1443	Late Break	30 chr EAM 74O2RX A3FI65G7HEVNJVWVFNLC3I
18-12	1454	Late Break	52 chr EAM NPDBO7 YXPUN2AHHROFDJUTSJNNR47A437MG3UTSVN6ORC73XFHLF
18-12	1619	Late Break	30 chr EAM for Elkwood NPXNQU NOL3UDPSGQ6UTPQEWKKUJYNF
18-12	1622	Late Break	30 chr EAM NPR2OT TAFIF55GUMXJZP3VJUXQT74X
18-12	1640	Late Break	30 chr EAM 74BKQD E5YIGM6GPSZA3C5TYHERR3HQ
18-12	1645	Late Break	30 chr EAM 74F2WN 6OLBU4AJZGQHQQB2FS6IRVU3
18-12	1659	Late Break	30 chr EAM 74VUXZ SG2SHTYDL2XVWHDSTDQIULDQ
18-12	1703	Late Break	30 chr EAM 74VUXZ SG2SHTYDL2XVWHDSTDQIULDQ
18-12	1706	Late Break	30 chr EAM 74G4OD 3SH3FHZEZYSAR3J4OGCU2T2H
18-12	1709	Late Break	30 chr EAM 74F2WN 6OLBU4AJZGQHQQB2FS6IRVU3
18-12	1712	Late Break	30 chr EAM 74BKQD E5YIGM6GPSZA3C5TYHERR3HQ
18-12	1804	Late Break	30 chr EAM for Along NPDMT3 YPZ6ZHPHMECN5VZY75QZDJV
18-12	1820	Late Break	30 chr EAM for Along NPH3WO S5M3KW4W74IICQL3PEMRGOKR
18-12	1901	Late Break	30 chr EAM for Along NPVS4A QF7MYXP3LF6BLIUANFZFJR36
18-12	1919	Late Break	30 chr EAM for Along NP37Z7 GK2IB5YTB5W3ZLASA2FWSTW2
18-12	1932	Late Break	30 chr EAM 74BCVY MWIINZIQLLZQL7RHXJFKEQWX
18-12	2151	Late Break	30 chr EAM for Parallelogram NPHNAZ XAEWR4CISOKMCEPF3U3MHFRQ
19-12	0226	Radiator	30 chr EAM 74MGLC 7SVBL4BHTGGFNTFNDFF76T4
19-12	1541	Radiator	38 chr EAM GLI6GV 4FVOBPEYCYQHJ2CTXGT7EMM3QDIKSYZ
19-12	1931	Radiator	30 chr EAM 74EWDO 36HB6DNFEZRSDSYEGBNCKVUA
19-12	2252	Radiator	30 chr EAM 74Q5XL PI7GD4UUIDBS5BIR6K6Q3FYW
19-12	2304	Radiator	30 chr EAM 74NMP7 K232DNJYKTKVW4LDSFNXQZ
19-12	2314	Radiator	30 chr EAM 74S2V4 P5WIZR544BWEARRYN7LWNTZF
19-12	2317	Radiator	30 chr EAM 74GR6S LLBKXFLMEQUT64VGNMRJTHAN
19-12	2322	Radiator	30 chr EAM 74S2V4 P5WIZR544BWEARRYN7LWNTZF
19-12	2324	Radiator	30 chr EAM 74GR6S LLBKXFLMEQUT64VGNMRJTHAN
19-12	2330	Radiator	30 chr EAM 74Y6EK IUGYJ6N5YRCFSMIVX4LJQY45
19-12	2333	Radiator	30 chr EAM 74JV6T DOKDGIUU4XUVB476V2VYZ6FL
19-12	2337	Radiator	30 chr EAM 74Y6EK IUGYJ6N5YRCFSMIVX4LJQY45
19-12	2340	Radiator	30 chr EAM 74JV6T DOKDGIUU4XUVB476V2VYZ6FL
20-12	1120	Down Deep	30 chr EAM for Hubbard NPUL5Z RGINJLA7WYCFJDLHUGOWCTJD
20-12	1124	Down Deep	30 chr EAM for Hubbard NPUL5Z RGINJLA7WYCFJDLHUGOWCTJD
20-12	1133	Down Deep	30 chr EAM for Hubbard NPAKWH WMKDKGZPYTRAENVPSDKWNZFA
20-12	1141	Down Deep	30 chr EAM for Hubbard NPKEEZ UDTATIRJDYKZFLC7HXSOKH3X
20-12	1251	Down Deep	30 chr EAM for Hubbard NPEMOF 7J7YUXO2ER6EEYDMYN5CCTGU
20-12	1304	Down Deep	30 chr EAM for Hubbard NPY4AV UR6ZDZUXXSWA35B212O7E4ML
20-12	1318	Down Deep	30 chr EAM for Hubbard NPPY2V RS54RLGQ6DW734D6PXKCOUZA
20-12	1554	Down Deep	44 chr EAM NPDDMC KNFDJ33MG3GVATLXAJLVQX4SSY4H6OZUGZ
20-12	1618	Down Deep	30 chr EAM NPUGXX ZYQEKXL3HK77HXNMOLZTN7X4
20-12	1621	Down Deep	30 chr EAM NPUGXX ZYQEKXL3HK77HXNMOLZTN7X4
20-12	1633	Down Deep	30 chr EAM 74KMFA PM3L36D5F54UQ6ZUBYDAH2BM
20-12	1644	Down Deep	30 chr EAM NPAPLL KKF5QE25OQ6QKFD35EM7RXQE
20-12	1648	Down Deep	30 chr EAM 74JNYG PK7YFZ34FQJ4TPGTW6A5TYFP
20-12	1658	Down Deep	30 chr EAM 7467AW ZKZGHERAVBT73ECBP3GNAXBT
20-12	1709	Down Deep	30 chr EAM 74NVFS QH6HWTP6YZRFRCO5P3DAXBKQ
20-12	1927	Down Deep	30 chr EAM 74HOVQ EVKP6DTG6UIWCSCMCXQJ3CNTH
21-12	1434	Golf Club	88 chr EAM GLGPYT V3LN74SA2ZTLE7YBJYA62OTZ6QZTDFNDNGGGYQFYFAFFANQKKKA3DEGGG6B45GCGGVAZZZ ZZDABFBK3HL
21-12	1453	Golf Club	30 chr EAM 74CNDX RQU3LTTPHSV7O3BRPENCYUJ
21-12	1500	Golf Club	88 chr EAM GLGPYT V3LN74SA2ZTLE7YBJYA62OTZ6QZTDFNDNGGGYQFYFAFFANQKKKA3DEGGG6B45GCGGVAZZZ

			ZZDABFBK3HL
21-12	1530	Golf Club	88 chr EAM GLGPYT V3LN74SA2ZTLE7YBJYA62OTZ6QZTDFNDNGGGYQFYFAFFANQKKKA3DEGGG6B45GCGGVAZZ ZZDABFBK3HL
21-12	1811	Golf Club	30 chr EAM 74UJXW 5NDLDBJVYJQZFZMT4WXYBDMU
21-12	2041	Golf Club	30 chr EAM 74F7SS ZGHASGQVAPWEITJLZRY5Q4U6
21-12	2049	Golf Club	30 chr EAM 74BXQ6 DSI3VDICZXNS72W3NKBTHCVW
21-12	2052	Golf Club	30 chr EAM 74BXQ6 DSI3VDICZXNS72W3NKBTHCVW
22-12	0002	????????	30 chr EAM 74T332 DTT6JIZTL7N4H65IGW3BIFQ
23-12	0311	Andrews	Skyking message: Rush Time 11 Auth HP
23-12	2200	Big Mac	30 chr EAM 7445VH 3N6FXGZVEEFEB3L7SDWRZJAY
23-12	2209	Big Mac	30 chr EAM 74SJHD FDX7X2VUBAPKNTQ2DH7T6OE4
23-12	2212	Big Mac	30 chr EAM 74SJHD FDX7X2VUBAPKNTQ2DH7T6OE4
23-12	2217	Big Mac	30 chr EAM 74MIGY VPXABTJKDCM4IHO7GKJ5TUEC
23-12	2222	Big Mac	30 chr EAM 74MIGY VPXABTJKDCM4IHO7GKJ5TUEC
23-12	2224	Big Mac	30 chr EAM 74A5L6 EVBNMQRR63VGIRIEHEJOPVXI
23-12	2242	Big Mac	30 chr EAM 74SQK3 LJQE3YF2YNBIDNV3WS7PCJ6Y
23-12	2244	Big Mac	30 chr EAM 745QUD ZELTF2IVKQDRPE56FOZBSAL3
23-12	2247	Big Mac	30 chr EAM 745QUD ZELTF2IVKQDRPE56FOZBSAL3
24-12	1538	Day Room	30 chr EAM 7433DL P73QP367KXP7YOVCVG6DPIOZ
24-12	1542	Day Room	30 chr EAM 74THVY RPMEEF7SV576A2XKGMXVQYHN
24-12	1546	Day Room	30 chr EAM 747HNT VE2CKKRIADZDEE6UWR6EA4HO
26-12	2150	Sofa Bed	30 chr EAM 74SB3M ZR5IWKN6W2HMGSSEUYZAODX
26-12	2153	Sofa Bed	30 chr EAM 74SB3M ZR5IWKN6W2HMGSSEUYZAODX
26-12	2157	Sofa Bed	30 chr EAM 74WX5F MBETLO4BVRTICAAONFQHNTUS
26-12	2201	Sofa Bed	30 chr EAM 54WX5F MBETLO4BVRTICAAONFQHNTUS Note the incorrect first digit
26-12	2230	Sofa Bed	30 chr EAM 74WX5F MBETLO4BVRTICAAONFQHNTUS
26-12	2232	Sofa Bed	30 chr EAM 74SB3M ZR5IWKN6W2HMGSSEUYZAODX
27-12	0103	Absorbing	30 chr EAM for Blasting Cap NPXYGS FKEVNY4XBY3TF4ZEJF75DKOD
27-12	0212	Absorbing	30 chr EAM 744JBN OWVVOO2VGBOXBQH4N7B42FPKV
28-12	1431	Mail Call	30 chr EAM 74RG2E QJ2OBPDY4M4NVLVV5C5WGU3R
28-12	1733	Mail Call	30 chr EAM 745LXO XYSGDK42Y66T5MQGLXN2IDRO
28-12	2046	Mail Call	30 chr EAM for Rahmic-64 NPZ3JC WLMAUZ3SDSOWUNVD4GPXFWX
28-12	2051	Mail Call	30 chr EAM for Rahmic-64 NPZ3JC WLMAUZ3SDSOWUNVD4GPXFWX
28-12	2117	Mail Call	30 chr EAM 74FSYP FL6WZCYY24BR3WESZUNJBI2T
28-12	2120	Mail Call	30 chr EAM 74FSYP FL6WZCYY24BR3WESZUNJBI2T
28-12	2257	Mail Call	30 chr EAM 74NIKL 47VUETWZCDAQEZJ7PZIVK63O
28-12	2303	Mail Call	30 chr EAM 7446E4 WF6IQQ2GHKIDG4IIQYEHTDP6
28-12	2306	Mail Call	30 chr EAM 74NIKL 47VUETWZCDAQEZJ7PZIVK63O
28-12	2309	Mail Call	30 chr EAM 7446E4 WF6IQQ2GHKIDG4IIQYEHTDP6
29-12	1603	Back Bench	30 chr EAM 744H7R Q5HHY47R4HLAKCLZDO7YAVPK
29-12	1606	Back Bench	30 chr EAM 74AM5S DZ3TBVBEHUEAHXZZYNJODFLZ
29-12	1609	Back Bench	30 chr EAM 74AOS3 XNILNKKVC2FOHZWW5TXHRF3S
29-12	1613	Back Bench	30 chr EAM 74M2XX IXXKVCGHG6ZK4EMRHHS7ER4J
30-12	1522	Good News	30 chr EAM 742JSC VIJN2ROC4MPHN6WCPD2TQEBU
30-12	1525	Good News	30 chr EAM 74UH7V CPZQ7TMWDIXWWZPES4YL5IEJ
30-12	2103	Good News	30 chr EAM 74ASKL C42HOLJV2L2KLHTEVKF4GAB
30-12	2106	Good News	30 chr EAM 74ASKL C42HOLJV2L2KLHTEVKF4GAB
30-12	2232	Good News	30 chr EAM 74CHSA 7L6O75YFBVZZOWSLGVC4WDNG
30-12	2236	Good News	30 chr EAM 74CHSA 7L6O75YFBVZZOWSLGVC4WDNG
31-12	0208	Endowment	30 chr EAM 74UKDR AN633BF2FSKL6PTIYTIDO7YJ
31-12	1528	Endowment	30 chr EAM 74AYNX TPDNVIXWQMJI4JZ3TWEULRWZ
31-12	1531	Endowment	30 chr EAM 74ST6X EW5DTN6LIN4WW3CYN7TGFKS5
31-12	1544	Endowment	30 chr EAM 74U4PG 34K2COPAK3NNVEZFIQ42VWTR
31-12	1547	Endowment	30 chr EAM 74K7SC 2SRU2QSLA6TQSV5NQTA6FJB4
31-12	1551	Endowment	30 chr EAM 74JUHA MCWBF6QZTVFGXBVTPOZLXSTY

RUSSIAN MILITARY TRANSCRIPTS

Excerpts from logs submitted by JPL, JU, AnEur, GWr, Priyom, and WP3

Strategic messages

12707 kHz, 03-12, 1028 UTC	XXX XXX WEGI WEGI 14833 SIGOBUND 9489 5722
14411 kHz, 03-12, 1034 UTC	RDL: XXX XXX WEGI WEGI 20500 14833 SIGOBUND 9489 5722
8191 kHz, 03-12, 1037 UTC	RMP: XXX XXX REO REO 68929 KALAMBURNYJ 3019 0411
11155 kHz, 03-12, 1039 UTC	RIT: XXX XXX M7A2 M7A2 04224 KUPAV 4105 0510
14411 kHz, 03-12, 1041 UTC	RDL: XXX XXX M7A2 M7A2 85151 04224 KUPAV 4105 0510
14411 kHz, 03-12, 1058 UTC	RDL: XXX XXX M7A2 M7A2 34898 93071 ZALXNYJ 2642 6188
7678 kHz, 04-12, 1204 UTC	XXX XXX MFT5 MFT5 98509 MAHOOeAS 6477 4723 IRISOChUAN 9866 6201
7678 kHz, 04-12, 1224 UTC	XXX XXX MFT5 MFT5 73905 PIKNOZ 5830 5447 KUOeRAeWYJ 4525 3869
7678 kHz, 04-12, 1235 UTC	XXX XXX MFT5 MFT5 29896 GERBOWES 6280 7280
7678 kHz, 08-12, 1209 UTC	XXX XXX BNS1 BNS1 36372 RUNIOeESKIJ 8922 9246
7678 kHz, 08-12, 1212 UTC	XXX XXX 7UGL 7UGL 87838 PARANEFRIT 5570 4635
7678 kHz, 08-12, 1215 UTC	XXX XXX 1QRF 1QRF 98946 POMAEtYJ 9421 8498
7678 kHz, 08-12, 1218 UTC	XXX XXX 9TIC 9TIC 18968 DXAeKOHLEB 5715 7299
7678 kHz, 08-12, 1221 UTC	XXX XXX KG46 KG46 01788 SWISANXE 5730 9531
7678 kHz, 08-12, 1225 UTC	XXX XXX MFT5 MFT5 98638 ILLUeZIAe 8973 4290
7678 kHz, 16-12, 1149 UTC	XXX XXX MFT5 MFT5 45063 BATRAK 0707 6195
7679 kHz, 16-12, 1218 UTC	XXX XXX WEGI WEGI 33326 WZAIMNOSTX 8354 0719
7678 kHz, 16-12, 1226 UTC	XXX XXX MFT5 MFT5 92432 MORGANXE 9424 5436
8191 kHz, 16-12	RMP: XXX XXX REO REO 01154 BUNTOHLEW 6887 5642
14556 kHz, 16-12, 1232 UTC	RIW RISTANIE 43793 37564 01419 01350 05438 00955 00531 02521 K
14411 kHz, 16-12, 1236 UTC	RDL: XXX XXX WEGI WEGI 38787 33326 WZAIMNOSTX 8354 0719
14411 kHz, 16-12, 1238 UTC	RDL: XXX XXX M7A2 M7A2 79202 71400 LILOWATOSTX 5722 8619
4783 kHz, 22-12, 0842 UTC	XXX XXX EANA PA4369 XXX XXX ANA PA4369 K

Monolith Stations

Goose

4310 kHz, 22-12, 1601 UTC	Wozduh OKHVAT98 69892 NIKOVA 96_9 3285 priyom
3012 kHz, 22-12, 1900 UTC	Wozduh OKHVAT98 83463 BOLTWEJN 1886 6387 priyom
4310 kHz, 23-12, 1015 UTC	Wozduh OKHVAT98 43798 RYSAK 3353 3654 priyom

Note the “wozduh” priority code. It is the voice equivalent of WZD in morse.

S30 Pip

3756 kHz, 19-12, 1545 UTC	KZI' TSHCHSHCHS VKY1 KH5LF 61KHZH ZBIL L7O5 V'Z' NLTSE LI27 Kak slyshno? Kak slyshno? Priyom
3756 kHz, 19-12, 1607 UTC	8S1Shch 49599 NYaGAN' 8089 4167
3756 kHz, 20-12, 1550 UTC	Dlya DEAY YKH'Y 12TSI 79AY SHCHT3O TSIKHS Z7PM S7ZHG Z'1B TSI9V Kak slyshno? Kak slyshno? Priyom

S32 Squeaky Wheel

3828 kHz, 29-12, 1612 UTC	Al'fa-45 46529 MARKSISTKA 5849 0017
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M32 - Russian Military CW Stations

7678 kHz, 05-12, 0939 UTC

4C9T DE IPB8 QTC K

IPB8 100 30 5 1230 100 = ZJM 769 =

43130 99756 99599 80614 63006 04654 59313 28877 89815 23110

56880 34594 28290 58025 89968 79244 23503 36839 45216 39344

12114 28102 54101 36779 46877 64433 05026 769 K

7678 kHz, 07-12, 0812 UTC

ZZHN ZZHN ZZHN QTC AR

ZZHN ZZHN ZZHN

100 29 7 1105 100 = ZDP 328 =

91479 97834 29851 16711 56716 73981 86988 32878 84774 53887

07485 43717 72618 73846 02715 35441 43528 59338 64272 12997

91444 63659 58006 60650 89090 07025 328 QLN K

7678 kHz, 16-12, 1102 UTC

2BAU DE 6M7X QBE QYT6 K RK

7678 kHz, 16-12, 1157 UTC

IIZZ DE 6M7X QTC K

6M7X 150 30 16 1450 150 = ZMK 306 =

38105 32874 15879 83079 88754 81796 43263 99217 06668 18263

45917 45719 72060 49117 06603 54879 28344 90392 93515 68028

28962 69064 28727 17657 37311 40501 16026 306 K

M32a - Russian Navy (Voyenno-Morskoy Flot Rossii)

8435 kHz, 19-12

RKN64: Russian Navy ship Admiral Makarov

RCV: Black Sea HQ Sevastopol

0654 UTC VVV RCV RCV RCV DE RKN64 RKN64 QSA? QTC K

0657 UTC VVV RCV RCV RCV DE RKN64 RKN64 QSA? QTC K

0700 UTC VVV RCV RCV RCV DE RKN64 RKN64 QSA? QTC K

0702 UTC VVV RCV RCV RCV DE RKN64 RKN64 QSA? QTC K

0703 UTC RKN64 527 19 19 0900 527 =

SML FOR RJE73 RJH45 =

19061 99349 10358 41597 83405 10148 40167 51082 70202 88520

22200 00200 10402 88000 80000 19015 =

AR RKN64 K

RKN64 OK QRU K

8120 kHz, 19-12, 0831 UTC

RAA DE RJH69 QSA 3 K

RAA QAP K

RJH69 OK QAP K

RAA R K

DE RAA K

RAA DE RJH69 K

RAA QYT 9 Q.. 8423 QSX 8182 K

RJH69 OK QYT 9 QWS 8423 QSX 8182 K

RAA R K

4244 kHz, 22-12, 1432 UTC

RJD97 DE RLR63 K

RJD97 DE RLR63 QTC K

RJS DE RLR63 K

RJD93 DE RLR63 QTC K

RJD93 DE RLR63 K

RJD97 DE RLR63 K

M32b - Russian Naval Aviation (Aviatsiya Voenno-morskogo Flota Rossii)

8816 kHz, 15-12, 0755 UTC

RJC38 RJF94 DE 26383 QTH 15840 13755 QTR 0751 QBG 5500 QRE XUMO 0850 K

QQM XUMO 0854 SK

8816 kHz, 15-12, 1025 UTC

RJC38 RJF94 DE 26383 QTO 1011 QRD XLAA XUMO QRE 1300 QBD 0500 K

QTH 16015 13830 QTR 1134 QBG 5800 QBD 0400 K

QTH 16117 13851 QTR 1154 QBG 5800 QRE XLAA 1250 K

QQM XLAA 1248 SK

8816 kHz, 15-12, 1358 UTC

RJC38 RJF94 DE 26383 QTO 1346 QRD XLMD XLAA QRE 1530 QBD 0500 K

QTH 16600 13733 QTR 1430 QBG 5500 QRE XLMD 1530 K

NUMBERS & ODDITIES INDEX 2018

Issue	Subject	Item
244	Contributors	Contributors
244	Digital Modes	F01 Transcripts
244	Digital Modes	F06 Transcripts
244	Digital Modes	F11 Transcripts
244	Digital Modes	HM01 Oddities
244	Digital Modes	M42b Logs
244	Digital Modes	POL Designators
244	Digital Modes	X06 Transcripts
244	Digital Modes	XPA Transcripts
244	Digital Modes	XPA2 Transcripts
244	Digital Modes	XSL Logs
244	Diplomatic Stations	Egyptian diplo stations: Logs
244	Diplomatic Stations	North Korean diplo stations: IDs and locations
244	Logs	Logs Section
244	Morse stations	M01 Transcripts
244	Morse stations	M01a Transcripts
244	Morse stations	M01b Transcripts
244	Morse stations	M08a Logs, Transcripts and oddities
244	Morse stations	M12 Transcripts
244	Morse stations	M14 Transcripts
244	Morse stations	M21 Transcripts
244	Morse stations	M41 Transcripts
244	Morse stations	M89 Transcripts
244	Morse stations	M95 Transcripts
244	Morse stations	MC03 Transcripts
244	Morse stations	UM03 Transcripts
244	Morse stations	UM10 Transcripts
244	Utility Round-up	Japanese Military: Logs, calling list
244	Utility Round-up	JCS Foxtrot Messages & Emergency Action Messages
244	Utility Round-up	M32 Logs and transcripts
244	Utility Round-up	M32a Logs and transcripts
244	Utility Round-up	M32b Logs and transcripts
244	Utility Round-up	M32c Log

244	Utility Round-up	RADv Logs
244	Utility Round-up	Unid stations
244	Voice Stations	E06 Transcripts
244	Voice Stations	E07 Transcripts
244	Voice Stations	E07a Transcripts
244	Voice Stations	E11a Transcripts
244	Voice Stations	E17z Transcripts
244	Voice Stations	G06 Transcripts
244	Voice Stations	Logs and analysis on Russia's 6-family operations in the far-east
244	Voice Stations	S06 Transcripts and recording
244	Voice Stations	S06s Oddities
244	Voice Stations	S11a Transcripts
244	Voice Stations	S28 Transcripts
244	Voice Stations	V07 Transcripts
244	Voice Stations	V15 Logs and recordings
244	Voice Stations	VC03 Logs
245	Contributors	Contributors
245	Digital Modes	F01 Transcripts
245	Digital Modes	F06 Transcripts
245	Digital Modes	F11 Transcripts
245	Digital Modes	HM01 Oddities
245	Digital Modes	X06 Transcripts
245	Digital Modes	XPA Transcripts
245	Digital Modes	XPA2 Transcripts
245	Diplomatic Stations	Egyptian diplo stations: Logs
245	Logs	Logs Section
245	Morse stations	M01 Transcripts
245	Morse stations	M01a Transcripts
245	Morse stations	M12 Transcripts
245	Morse stations	M14 Transcripts
245	Morse stations	M21 Transcripts
245	Morse stations	M22 Transcripts
245	Morse stations	M41 Transcripts
245	Morse stations	M89 Transcripts
245	Morse stations	M95 Transcripts
245	Morse stations	UM03 Transcripts
245	Morse stations	UM10 Transcripts
245	Utility Round-up	JCS Foxtrot Messages & Emergency Action Messages
245	Utility Round-up	M32 Logs and transcripts
245	Utility Round-up	M32a Logs and transcripts
245	Utility Round-up	RAv Logs
245	Utility Round-up	RMv Logs
245	Utility Round-up	RNAv Logs
245	Utility Round-up	RNv Logs
245	Utility Round-up	Unid stations
245	Voice Stations	E06 Transcripts and recording
245	Voice Stations	E07 Transcripts
245	Voice Stations	E07a Transcripts
245	Voice Stations	E11a Transcripts
245	Voice Stations	E17z Transcripts
245	Voice Stations	E25 Transcripts and recordings
245	Voice Stations	G06 Transcripts
245	Voice Stations	S06 Transcripts
245	Voice Stations	S06c Transcripts

245	Voice Stations	S06s Oddities
245	Voice Stations	S11a Transcripts
245	Voice Stations	S28 Transcripts
245	Voice Stations	V07 Transcripts
245	Voice Stations	V15 Logs and recordings
245	Voice Stations	VC01 Information
246	Contributors	Contributors
246	Digital Modes	F01 Transcripts
246	Digital Modes	F06 Transcripts
246	Digital Modes	F06a Transcripts
246	Digital Modes	F11 Transcripts
246	Digital Modes	HM01 Monthly report, oddities, files
246	Digital Modes	M42 Logs
246	Digital Modes	X06 Transcripts
246	Digital Modes	XPA Transcripts
246	Digital Modes	XPA2 Transcripts
246	Digital Modes	XSL Logs
246	Diplomatic Stations	Egyptian diplo stations: Logs
246	Diplomatic Stations	North Korean diplo stations: Logs
246	Logs	Logs Section
246	Morse stations	M01 Transcripts
246	Morse stations	M01a Transcripts
246	Morse stations	M08a Logs, Transcripts and oddities
246	Morse stations	M12 Transcripts
246	Morse stations	M14 Transcripts
246	Morse stations	M21 Transcripts
246	Morse stations	M89 Transcripts
246	Morse stations	M90 Transcripts
246	Morse stations	M95 Transcripts
246	Morse stations	UM03 Transcripts
246	Morse stations	UM10 Transcripts
246	Picture	HM01 decoder picture
246	Utility Round-up	JCS Foxtrot Messages & Emergency Action Messages
246	Utility Round-up	M32 Logs and transcripts
246	Utility Round-up	M32a Logs and transcripts
246	Utility Round-up	M32b Logs and transcripts
246	Utility Round-up	RAv Logs
246	Utility Round-up	Unid stations
246	Voice Stations	E06 Transcripts
246	Voice Stations	E06a Transcript
246	Voice Stations	E07 Transcripts
246	Voice Stations	E07a Transcripts
246	Voice Stations	E11a Transcripts
246	Voice Stations	E17z Transcripts
246	Voice Stations	G06 Transcripts
246	Voice Stations	S06 Transcripts and recording
246	Voice Stations	S06b Transcripts incl exercises
246	Voice Stations	S06c Transcript
246	Voice Stations	S06s Oddities
246	Voice Stations	S11a Transcripts
246	Voice Stations	V07 Transcripts
246	Voice Stations	V15 Logs and recordings
247	Contributors	Contributors
247	Digital Modes	F01 Transcripts

247	Digital Modes	F06 Transcripts
247	Digital Modes	F11 Transcripts
247	Digital Modes	HM01 Monthly report
247	Digital Modes	M42 Logs
247	Digital Modes	Q26 Transcript
247	Digital Modes	X06 Transcripts
247	Digital Modes	XPA Transcripts
247	Digital Modes	XPA2 Transcripts
247	Digital Modes	XSL Logs
247	Diplomatic Stations	Egyptian diplo stations: Logs
247	Diplomatic Stations	North Korean diplo stations: Logs
247	Logs	Logs Section
247	Morse stations	M01 Transcripts
247	Morse stations	M01a Transcripts
247	Morse stations	M12 Transcripts
247	Morse stations	M14 Transcripts
247	Morse stations	M21 Transcripts
247	Morse stations	M51b Transcript
247	Morse stations	M89 Transcripts
247	Morse stations	M90 Transcripts
247	Morse stations	M95 Transcripts
247	Morse stations	UM03 Transcripts
247	Morse stations	UM10 Transcripts
247	Utility Round-up	JCS Foxtrot Messages & Emergency Action Messages
247	Utility Round-up	M32 Logs and transcripts
247	Utility Round-up	M32a Logs and transcripts
247	Utility Round-up	M32c Logs and transcripts
247	Utility Round-up	RAv Logs
247	Utility Round-up	Unid North Korean net (= North Korean Military)
247	Voice Stations	E06 Transcripts
247	Voice Stations	E07 Transcripts
247	Voice Stations	E07a Transcripts
247	Voice Stations	E11a Transcripts
247	Voice Stations	E17z Transcripts
247	Voice Stations	G06 Transcripts
247	Voice Stations	S06 Transcripts and recording
247	Voice Stations	S11a Transcripts
247	Voice Stations	V07 Transcripts
247	Voice Stations	V15 Logs and recordings
248	Contributors	Contributors
248	Digital Modes	F01 Transcripts
248	Digital Modes	F06 Transcripts
248	Digital Modes	F11 Transcripts
248	Digital Modes	HM01 Monthly report
248	Digital Modes	POL New mode and schedules
248	Digital Modes	X06 Transcripts
248	Digital Modes	XPA Transcripts
248	Digital Modes	XPA2 Transcripts
248	Diplomatic Stations	Egyptian diplo stations: Logs
248	Diplomatic Stations	North Korean diplo stations: Logs
248	Diplomatic Stations	North Korean propaganda stations
248	Diplomatic Stations	South Korean propaganda stations
248	Logs	Logs Section
248	Morse stations	M01 Transcripts

248	Morse stations	M12 Transcripts
248	Morse stations	M14 Transcripts
248	Morse stations	M21 Transcripts
248	Morse stations	M51b Transcript
248	Morse stations	M89 Transcripts
248	Morse stations	M90 Transcripts
248	Morse stations	M95 Transcripts
248	Morse stations	MX S-marker
248	Morse stations	UM10 Transcripts
248	Utility Round-up	JCS Foxtrot Messages & Emergency Action Messages
248	Utility Round-up	M32 Logs and transcripts
248	Utility Round-up	M32a Logs and transcripts
248	Utility Round-up	M32b Logs and Transcripts
248	Utility Round-up	M32c Logs and transcripts
248	Voice Stations	E06 Transcripts and erratic schedules
248	Voice Stations	E07 Transcripts
248	Voice Stations	E07a Transcripts
248	Voice Stations	E11a Transcripts and recordings
248	Voice Stations	E17z Transcripts
248	Voice Stations	G06 Transcripts and recording
248	Voice Stations	S06 Transcripts and recording
248	Voice Stations	S06s Odditiy and recording
248	Voice Stations	S11a Transcripts
248	Voice Stations	S28 on two transmitters
248	Voice Stations	V02a Log
248	Voice Stations	V07 Transcripts
248	Voice Stations	V15 Logs and recordings
248	Voice Stations	V28 Schedules and recorings
249	Contributors	Contributors
249	Digital Modes	F01 Transcripts
249	Digital Modes	F06 Transcripts
249	Digital Modes	F11 Transcripts
249	Digital Modes	HM01 Monthly report
249	Digital Modes	M42 Transcripts
249	Digital Modes	M42b Transcripts
249	Digital Modes	X06 Transcrips
249	Digital Modes	XPA Transcripts
249	Digital Modes	XPA2 Transcripts
249	Diplomatic Stations	Egyptian diplo stations: Logs
249	Logs	Logs Section
249	Morse stations	M01 Transcripts
249	Morse stations	M01a Transcripts
249	Morse stations	M12 Transcripts
249	Morse stations	M14 Transcripts
249	Morse stations	M21 Transcripts
249	Morse stations	M41 Transcripts
249	Morse stations	M89 Transcripts
249	Morse stations	M95 Transcripts
249	Morse stations	UM10 Transcripts
249	Picture	Dutch military antenna site Hoek van Holland
249	Picture	Dutch Navy listening point Terschelling
249	Picture	Former US military relay station In hoek van Holland
249	Picture	XPA2 sonogram
249	Utility Round-up	Japanese Air Force logs

249	Utility Round-up	Japanese Army logs
249	Utility Round-up	JCS Foxtrot Messages & Emergency Action Messages
249	Utility Round-up	M32 Logs and transcripts
249	Utility Round-up	M32a Logs and transcripts
249	Utility Round-up	M32b Transcripts
249	Utility Round-up	M32c Logs and transcripts
249	Utility Round-up	North Korean Military adn other North Korean CW stations
249	Utility Round-up	RADv Logs
249	Utility Round-up	RAv Transcripts
249	Utility Round-up	RNV Transcript
249	Voice Stations	E06 Transcripts
249	Voice Stations	E07 Transcripts
249	Voice Stations	E07a Transcripts
249	Voice Stations	E11a Transcripts
249	Voice Stations	E17z Transcripts
249	Voice Stations	G06 Transcripts
249	Voice Stations	S06 Transcripts and recording
249	Voice Stations	S06b Transcript and recording
249	Voice Stations	S06c Transcript
249	Voice Stations	S11a Transcripts
249	Voice Stations	V07 Crosstalk and recordings
249	Voice Stations	V13
249	Voice Stations	V15 Logs and recordings
249	Voice Stations	V24 Schedules
249	Voice Stations	V28 Logs
250	Contributors	Contributors
250	Digital Modes	F01 Transcripts
250	Digital Modes	F06 Transcripts
250	Digital Modes	F11 Transcripts
250	Digital Modes	HM01 Monthly report
250	Digital Modes	M42 Logs
250	Digital Modes	M42b Logs
250	Digital Modes	Q26 Transcript
250	Digital Modes	X06 Transcripts
250	Digital Modes	XPA Transcripts
250	Digital Modes	XPA2 Transcripts
250	Diplomatic Stations	Egyptian diplo stations: Logs
250	Diplomatic Stations	North Korean diplo stations: logs
250	General	250x Numbers & Oddities
250	Logs	Logs Section
250	Morse stations	M01 Transcripts
250	Morse stations	M01a Transcripts
250	Morse stations	M12 Transcripts
250	Morse stations	M14 Transcripts
250	Morse stations	M21 Transcripts
250	Morse stations	M41 Transcripts
250	Morse stations	M51b Transcript
250	Morse stations	M89 Transcripts
250	Morse stations	M95 Transcripts
250	Morse stations	MC03 Transcripts
250	Morse stations	UM03 Transcripts
250	Morse stations	UM10 Transcripts
250	Picture	S28 Mercedes factory on Povarovo site
250	Utility Round-up	Japanese Air Force: Logs

250	Utility Round-up	Japanese Military: Logs
250	Utility Round-up	M32 Logs and transcripts
250	Utility Round-up	M32a Logs and transcripts
250	Utility Round-up	M32b Logs and transcripts
250	Utility Round-up	North Korean Military: Logs and transcripts
250	Utility Round-up	RADv Logs
250	Utility Round-up	Unid stations (odd tone sequences and other unids)
250	Voice Stations	E06 Transcripts
250	Voice Stations	E07 Transcripts
250	Voice Stations	E07a Transcripts
250	Voice Stations	E11a Transcripts
250	Voice Stations	E17z Transcripts
250	Voice Stations	G06 Transcripts
250	Voice Stations	S06 Transcripts
250	Voice Stations	S11a Transcripts
250	Voice Stations	V07 Transcripts
250	Voice Stations	V15 Logs and recordings
250	Voice Stations	V28 Logs
251	Contributors	Contributors
251	Digital Modes	F01 Transcripts
251	Digital Modes	F06 Transcripts
251	Digital Modes	F11 Transcripts
251	Digital Modes	HM01 Monthly report
251	Digital Modes	M42 Logs
251	Digital Modes	M42b Logs
251	Digital Modes	X06 Transcripts
251	Digital Modes	XM Logg and recording
251	Digital Modes	XPA Transcripts
251	Digital Modes	XPA2 Transcripts
251	Diplomatic Stations	Egyptian diplo stations: Logs
251	Diplomatic Stations	North Korean diplo stations: logs
251	General	Jammers
251	General	Utility Monitoring Central and website updates
251	Logs	Logs Section
251	Morse stations	M01 Transcripts
251	Morse stations	M01a Transcripts
251	Morse stations	M12 Transcripts
251	Morse stations	M14 Transcripts
251	Morse stations	M21 Transcripts
251	Morse stations	M41 Transcripts
251	Morse stations	M51a Transcripts
251	Morse stations	M89 Transcripts
251	Morse stations	M95 Transcripts
251	Morse stations	UM03 Transcripts
251	Utility Round-up	Japanese Air Force: Logs
251	Utility Round-up	Japanese Army: Logs
251	Utility Round-up	JCS Foxtrot Messages & Emergency Action Messages
251	Utility Round-up	M32 Logs and transcripts
251	Utility Round-up	M32a Logs and transcripts
251	Utility Round-up	M32b Logs and transcripts
251	Utility Round-up	North Korean Military: Logs and transcripts
251	Utility Round-up	Unid stations (odd tone sequences and other unids)
251	Voice Stations	E06 Transcripts
251	Voice Stations	E07 Transcripts

251	Voice Stations	E07a Transcripts
251	Voice Stations	E11a Transcripts
251	Voice Stations	E17z Transcripts
251	Voice Stations	G06 Transcripts
251	Voice Stations	Russian Far Eastern report
251	Voice Stations	S06 Transcripts
251	Voice Stations	S11a Transcripts
251	Voice Stations	V07 Transcripts
251	Voice Stations	V15 Logs and recordings
252	Appendix I	F06a conversion notes
252	Appendix II	Russian family 6: September exercise report
252	Appendix III	Russian family 6: far eastern report
252	Contributors	Contributors
252	Digital Modes	F01 Transcripts
252	Digital Modes	F06 Transcripts
252	Digital Modes	F06a Transcripts
252	Digital Modes	F11 Transcripts
252	Digital Modes	HM01 Monthly report
252	Digital Modes	M42 Logs
252	Digital Modes	M42b Logs
252	Digital Modes	X06 Transcripts
252	Digital Modes	XPA Transcripts
252	Digital Modes	XPA2 Transcripts
252	Diplomatic Stations	Egyptian diplomatic stations: Transcripts
252	Diplomatic Stations	North Korean Military: Transcripts
252	General	Radio related books
252	Logs	Logs Section
252	Morse stations	M01 Transcripts
252	Morse stations	M01a Transcripts
252	Morse stations	M08a Transcripts
252	Morse stations	M12 Transcripts
252	Morse stations	M14 Transcripts
252	Morse stations	M21 Transcripts
252	Morse stations	M51 Transcripts
252	Morse stations	M51a Transcripts
252	Morse stations	M89 Transcripts
252	Morse stations	M90 Log
252	Morse stations	M95 Transcripts
252	Utility Round-up	Jammers
252	Utility Round-up	JCS Foxtrot Messages & Emergency Action Messages
252	Utility Round-up	M32 Transcripts
252	Utility Round-up	M32a Transcripts
252	Utility Round-up	M32b Transcripts
252	Utility Round-up	RADv Logs
252	Utility Round-up	RAv Transcripts
252	Utility Round-up	RMv Transcripts
252	Utility Round-up	RNv Log
252	Utility Round-up	Unid stations
252	Voice Stations	E06 Transcripts
252	Voice Stations	E07 Transcripts
252	Voice Stations	E07a Transcripts
252	Voice Stations	E11a Transcripts
252	Voice Stations	E17z Transcripts
252	Voice Stations	G06 Transcripts

252	Voice Stations	S06 Transcripts
252	Voice Stations	S11a Transcripts
252	Voice Stations	V02a
252	Voice Stations	V07 Transcripts
252	Voice Stations	V15 Log
252	Voice Stations	V28 Log
253	Contributors	Contributors
253	Digital Modes	F01 Transcripts
253	Digital Modes	F06 Transcripts
253	Digital Modes	F11 Transcripts
253	Digital Modes	HM01 Monthly report
253	Digital Modes	M42 Logs
253	Digital Modes	X06 Transcripts
253	Digital Modes	XPA Transcripts
253	Digital Modes	XPA2 Transcripts
253	Diplomatic Stations	Egyptian diplomatic stations: Transcripts
253	Diplomatic Stations	North Korean diplomatic stations: Logs
253	Diplomatic Stations	North Korean Military: Transcripts
253	General	Radio related books
253	Logs	Logs Section
253	Morse stations	M01 Transcripts
253	Morse stations	M01a Transcripts
253	Morse stations	M08a Transcripts
253	Morse stations	M12 Transcripts
253	Morse stations	M14 Transcripts
253	Morse stations	M21 Transcripts
253	Morse stations	M89 Transcripts
253	Morse stations	M95 Transcripts
253	Picture	RDFT decoder screenshots
253	Utility Round-up	JCS Foxtrot Messages & Emergency Action Messages
253	Utility Round-up	M32 Transcripts
253	Utility Round-up	M32b Transcripts
253	Utility Round-up	RAv Transcripts
253	Voice Stations	E06 Transcripts
253	Voice Stations	E07 Transcripts
253	Voice Stations	E07a Transcripts
253	Voice Stations	E11a Transcripts
253	Voice Stations	E17z Transcripts
253	Voice Stations	G06 Transcripts
253	Voice Stations	S06 Transcripts
253	Voice Stations	S06s Repeating groups
253	Voice Stations	S11a Transcripts
253	Voice Stations	V02a
253	Voice Stations	V07 Transcripts; Priyom blog
253	Voice Stations	V15 Logs
253	Voice Stations	V28 Logs
254	Contributors	Contributors
254	Digital Modes	F01 Transcripts
254	Digital Modes	F06 Transcripts
254	Digital Modes	F11 Transcripts
254	Digital Modes	HM01 Monthly report
254	Digital Modes	M42 Logs
254	Digital Modes	M42b Log
254	Digital Modes	X06 Transcripts

254	Digital Modes	X06 sonogram
254	Digital Modes	XPA Transcripts
254	Digital Modes	XPA2 Transcripts
254	Diplomatic Stations	Czech diplomatic stations: Log
254	Diplomatic Stations	North Korean Military: Transcripts
254	Logs	Logs Section
254	Morse stations	M01 Transcripts
254	Morse stations	M08a Transcripts
254	Morse stations	M12 Transcripts
254	Morse stations	M14 Transcripts
254	Morse stations	M41 Transcripts
254	Morse stations	M51b Transcripts
254	Morse stations	M89 Transcripts
254	Morse stations	M95 Transcripts
254	Morse stations	MC03 Log
254	Morse stations	UM03 Transcripts
254	Picture	M01 sonogram
254	Utility Round-up	JCS Foxtrot Messages & Emergency Action Messages
254	Utility Round-up	M32 Transcripts
254	Utility Round-up	M32a Transcripts
254	Utility Round-up	M32b Transcripts
254	Voice Stations	E06 Transcripts
254	Voice Stations	E07 Transcripts
254	Voice Stations	E07a Transcripts
254	Voice Stations	E11a Transcripts
254	Voice Stations	E17z Transcripts
254	Voice Stations	G06 Transcripts
254	Voice Stations	S06 Transcripts
254	Voice Stations	S06s Oddities
254	Voice Stations	S11a Transcripts
254	Voice Stations	V02a
254	Voice Stations	V07 Transcripts
254	Voice Stations	V15 Logs and recordings
255	Appendix	2018 Index
255	Contributors	Contributors
255	Digital Modes	F01 Transcripts
255	Digital Modes	F06 Transcripts
255	Digital Modes	F11 Transcripts
255	Digital Modes	HM01 oddities and monthly review
255	Digital Modes	M42 Logs
255	Digital Modes	POL Logs
255	Digital Modes	X06 Logs and Locations
255	Digital Modes	XM Logs
255	Digital Modes	XPA Transcripts
255	Digital Modes	XPA2 Transcripts
255	Diplomatic Stations	Czech diplomatic stations
255	Diplomatic Stations	Egyptian diplomatic stations
255	General	Desmond Ball books
255	Logs	Logs Section
255	Morse stations	M01 Transcripts
255	Morse stations	M08a Transcripts and oddities
255	Morse stations	M12 Transcripts
255	Morse stations	M14 Transcripts
255	Morse stations	M23 Transcripts

255	Morse stations	M51b Transcript
255	Morse stations	M89 Transcripts
255	Morse stations	M95 Transcripts
255	Morse stations	MC03 Transcript
255	Morse stations	UM10 Logs
255	Picture	POL FSK-4 mode
255	Picture	Porthcurno Telegraph Museum
255	Utility Round-up	Goose Transcripts
255	Utility Round-up	JCS Foxtrot Messages & Emergency Action Messages
255	Utility Round-up	M32 Transcripts
255	Utility Round-up	M32a Transcripts
255	Utility Round-up	M32b
255	Utility Round-up	North Korean Military logs
255	Utility Round-up	Russian military: Strategic messages
255	Utility Round-up	S30 Transcripts
255	Utility Round-up	S32 Transcripts
255	Utility Round-up	Unid station HMZ99
255	Voice Stations	E06 Transcripts
255	Voice Stations	E07 Transcripts
255	Voice Stations	E11a Transcripts
255	Voice Stations	E17z Transcripts
255	Voice Stations	G06 Transcripts
255	Voice Stations	S06c Transcript
255	Voice Stations	S06s Oddities
255	Voice Stations	S11a Transcripts
255	Voice Stations	V07 Transcripts
255	Voice Stations	V15 Logs
255	Voice Stations	V28 2018 review



CONTRIBUTORS

AB	Ary Boender, Netherlands	Gwr	Gwraspe (via Priyom)
AB-AUS	Ary Boender via remote rx Australia	HFD	Hans-Friedrich Dumrese, Germany
AB-AUT	Ary Boender via remote rx Austria	HFD-I	Hans-Friedrich Dumrese via remote rx Italy
AB-CZE	Ary Boender via remote rx Czech Rep.	HFD-RUS	Hans-Friedrich Dumrese via remote rx Russia
Abder	Abder	HFD-USA	Hans-Friedrich Dumrese via remote rx USA
AB-GRC	Ary Boender via remote rx Greece	HK	Hiroyuki Komatsubara, Japan
AB-HNG	Ary Boender via remote rx Hungary	JPL	JPL, NB, Canada (and various remote rx)
AB-I	Ary Boender via remote rx Italy	JPL-J	JPL via remote rx Japan
AB-NZL	Ary Boender via remote rx New Zealand	JPL-Sib	JPL via remote rx Siberia
AB-POL	Ary Boender via remote rx Poland	JS3	Jochen Schaefer, Germany
AB-QAT	Ary Boender via remote rx Qatar	JU	Jay Updike, W. Europe
AB-ROU	Ary Boender via remote rx Romania	LA6LU	Geir Laastad, Norway
AB-RUS	Ary Boender via remote rx Russia	MDK2	MDK2, USA
AB-S	Ary Boender via remote rx Sweden	MPJ	Jim, SW England
AB-UKR	Ary Boender via remote rx Ukraine	MPJ-AUT	Jim via remote rx Austria
AB-USA	Ary Boender via remote rx USA	MPJ-CZE	Jim via remote rx Czech Rep.
AnEur	Anonymous Europe	MPJ-GRC	Jim via remote rx Greece
Avare	Avare, Russia	MPJ-HOL	Jim via remote rx Netherlands
BW3-D	Barry Williams via remote rx Germany	MPJ-I	Jim via remote rx Italy
BW3-HOL	Barry Williams via remote rx Netherlands	MPJ-NOR	Jim via remote rx Norway
BW3-J	Barry Williams via remote rx Japan	Phi	Philby
BW3-KOR	Barry Williams via remote rx South Korea	Priyom	Priyom.org
BW3-S	Barry Williams via remote rx Sweden	RL	Roberto Landolpho, Brazil
CM2	Chris Malboef	RL-HOL	Landolpho via remote rx Netherlands
CM2-HOL	Chris Malboef via remote rx the Netherlands	RL-J	Roberto Landolpho via remote rx Japan
CtY	Ct Yankee	RL-USA	Roberto Landolpho via remote rx USA
Dan	Daniel LU5EMM, Argentina	RP2	Ronny Peeters, Belgium
Danix	Danix111, Poland	SDX	Sat Dxr
DE	David Edger	Sha	shadypyro
EW	Eddy Waters, Australia	Token	T!, CA, USA
GHn	Gary Hagermann, UK	WP3	Wolfgang Palmberger

LOGS SECTION

Code	Freq	Date	UTC	Day	Details	Mode	Ctrb
---	4930	1-12	0912	Sat	North Korean Military i.p. VVV BW3 (X3) DE 53G (x2) QRU 4517 4517 SK SK TT	CW	(JPL-J)
---	4696.5	1-12	0915	Sat	North Korean Military i.p. 928 K QTC 03 F 14732 24 1 12 66928 K ? VVV VVV VHB DE 2SN QSA 0	CW	(JPL-J)
---	3556	1-12	1554	Sat	North Korean Military i.p. 79590 61058 24095 ... 89137 19826 10174 K	CW	(JPL-J)
---	6742	2-12	0130	Sun	i.p. VVV HMZQ DE HMZ99 QSA ? VVV HMZQ DE HMZ99 QSA ? K VVV HMZQ DE HMZ99 QRK ? K	CW	(JPL-J)
---	6742	5-12	0058	Wed	Unid North Korean net: V HM.. DE HMZ99 QRK ? K. AGN NIL OK GB VA EE	CW	(JPL-Sib)
---	3230	5-12	0905	Wed	North Korean Military i.p. VVV ZVL DE I44 QSA ? K	CW	(JPL-Sib)
---	4182	7-12	1822	Fri	Dash channel marker	CW	(RL-HOL)
---	5886.5	14-12	2307	Fri	North Korean Military i.p. VVV CQ (x3) DE VSB (x2) QSA ? K 7W4A 74A VVV 74A (x4) DE VSB (x2) QSA ? K	CW	(JPL-Sib)
---	4682	14-12	2318	Fri	North Korean Military i.p. VVV CQ (x3) DE 94U (x2) QSA ? OK 24 7... ? OK FFF QSX 0900 ?	CW	(JPL-Sib)
---	3254.6	22-12	0827	Sat	North Korean Military i.p. VVV CQ (x2) JW6 (x2) QSA ? K	CW	(JPL)
---	4102	22-12	0836	Sat	North Korean Military i.p. 26 50318 70768 60523 40469 K. VVV 7T 9 GA GA GA Z4? ...	CW	(JPL)
---	4310	22-12	1601	Sat	Goose channel marker, message: Wozduh OKHVAT98 69892 NIKOVA 96_9 3285 priyom	USB	(AnEur)
---	3012	22-12	1900	Sat	Goose channel marker, message: Wozduh OKHVAT98 83463 BOLTWEJN 1886 6387 priyom	USB	(AnEur)
---	4310	23-12	1015	Sun	Goose channel marker, message: Wozduh OKHVAT98 43798 RYSAK 3353 3654 priyom	USB	(AnEur)
CZE	10165	21-12	0820	Fri	OLZ85: Czech embassy, Tbilisi	Pactor-III	(AB)
CZE	11475	21-12	0842	Fri	Czech diplo	Pactor-III	(AB)
E06	9382	3-12	0210	Mon	537 812 812 35 35 41286 32082 32057 ... 53969 60340 68639 812 821 35 35 00000	USB	(BW3-KOR)
E06	13426	3-12	0310	Mon	537 812 812 35 35 41286 32082 32057 ... 53969 60340 68639 812 821 35 35 00000	USB	(BW3-KOR)
E06	4836	6-12	2019	Thu	11 111 111	USB	(AB)
E06	4836	6-12	2030	Thu	321 655 50 69059 32549 71652 ... 97123 45168 24685 655 50 00000	USB	(AB/MPJ)
E06	14575	7-12	0600	Fri	923 607 51 53898 77272 32701 ... 25153 35245 29872 607 51 00000	USB	(AB-RUS)
E06	17420	7-12	0700	Fri	923 607 51 53898 77272 32701 ... 25153 35245 29872 607 51 00000	USB	(AB-RUS)
E06	4760	7-12	2130	Fri	472 199 42 56712 87190 57901 ... 02750 34584 03823 199 42 00000	USB	(AB/RL-HOL)
E06	14654	20-12	0300	Thu	361-854/33=72716 via KiwiSDR RUS	USB	(HFD-RUS)
E06	12177	20-12	0400	Thu	361 via KiwiSDR RUS	USB	(HFD-RUS)
E06	14585	20-12	0600	Thu	923 861 54 37868 97044 80080 ... 67878 47224 48074 861 54 00000	USB	(AB-RUS)
E06	14585	20-12	0600	Thu	923-861/54=37868 via KiwiSDR I	USB	(HFD-I)
E06	17420	20-12	0700	Thu	923 861 54 37868 97044 80080 ... 67878 47224 48074 861 54 00000	USB	(AB-S)
E06	17420	20-12	0700	Thu	923	USB	(HFD)
E06	4836	20-12	2020	Thu	111 1	USB	(AB)
E06	4836	20-12	2030	Thu	321 129 43 45278 70761 25050 ... 47014 14765 21452 129 43 00000	USB	(AB/MPJ)
E06	14575	21-12	0600	Fri	923 861 54 37868 97044 80080 ... 67878 47224 48074 861 54 00000	USB	(AB-RUS)

E06	17420	21-12	0700	Fri	923 861 54 37868 97044 80080 ... 67878 47224 48074 861 54 00000	USB	(AB-RUS)
E07	8123	1-12	0700	Sat	134 134 134 000	USB	(AB)
E07	9323	1-12	0720	Sat	134 134 134 000	USB	(AB)
E07	9226	1-12	1430	Sat	674 674 674 000	USB	(AB)
E07	8123	2-12	0700	Sun	134 134 134 000	USB	(AB/HFD)
E07	9323	2-12	0720	Sun	134 134 134 000	USB	(AB/HFD)
E07	6823	3-12	2000	Mon	881 881 881 1 129 44 129 44 90721 61618 10199 ... 49089 57157 72134 000 000	USB	(MPJ/HFD)
E07	5823	3-12	2020	Mon	881 881 881 1 129 44 129 44 90721 61618 10199 ... 49089 57157 72134 000 000	USB	(MPJ/HFD)
E07	5123	3-12	2040	Mon	881 881 881 1 129 44 129 44 90721 61618 10199 ... 49089 57157 72134 000 000	USB	(MPJ/HFD)
E07	11493	4-12	1100	Tue	411 411 411 1 3042 173 3042 173 33894 49384 92863 72458 63100 ... 30630 99209 95917 000 000	USB	(MPJ/HFD)
E07	10193	4-12	1120	Tue	411 411 411 1 3042 173 3042 173 33894 49384 92863 72458 63100 ... 30630 99209 95917 000 000	USB	(MPJ/HFD)
E07	8193	4-12	1140	Tue	411 411 411 1 3042 173 3042 173 33894 49384 92863 72458 63100 ... 30630 99209 95917 000 000	USB	(MPJ/HFD)
E07	6771	5-12	1800	Wed	785 785 785 000	USB	(AB/MPJ/HFD)
E07	5871	5-12	1820	Wed	785 785 785 000	USB	(AB/MPJ/HFD)
E07	6823	5-12	2000	Wed	881 881 881 000	USB	(AB/MPJ)
E07	5823	5-12	2020	Wed	881 881 881 000	USB	(AB/MPJ)
E07	10226	6-12	1410	Thu	674 674 674 000	USB	(AB/MPJ)
E07	9226	6-12	1430	Thu	674 674 674 000	USB	(AB/MPJ)
E07	14364	7-12	0700	Fri	399 399 399 000	USB	(AB)
E07	14964	7-12	0720	Fri	399 399 399 000	USB	(AB)
E07	11493	7-12	1100	Fri	411 411 411 1 3042 173 3042 173 33894 49384 92863 ... 30630 99209 95917 000 000	USB	(AB-RUS/MPJ)
E07	10193	7-12	1120	Fri	411 411 411 1 3042 173 3042 173 33894 49384 92863 ... 30630 99209 95917 000 000	USB	(AB/MPJ)
E07	8193	7-12	1140	Fri	411 411 411 1 3042 173 3042 173 33894 49384 92863 ... 30630 99209 95917 000 000	USB	(AB/MPJ)
E07	8123	8-12	0700	Sat	134 134 134 000	USB	(AB)
E07	9323	8-12	0720	Sat	134 134 134 000	USB	(AB)
E07	10226	8-12	1410	Sat	674 674 674 000	USB	(MPJ/HFD)
E07	9226	8-12	1430	Sat	674 674 674 000	USB	(MPJ/HFD)
E07	8123	9-12	0700	Sun	134 134 134 000	USB	(AB)
E07	9323	9-12	0720	Sun	134 134 134 000	USB	(AB)
E07	6771	9-12	1800	Sun	785 785 785 1 379 73 379 73 44446 38733 37682 ... 05951 69215 20737 000 000	USB	(AB-AUT/MPJ)
E07	5871	9-12	1820	Sun	785 785 785 1 379 73 379 73 44446 38733 37682 ... 05951 69215 20737 000 000	USB	(AB-AUT/MPJ)
E07	4571	9-12	1840	Sun	785 785 785 1 379 73 379 73 44446 38733 37682 ... 05951 69215 20737 000 000	USB	(AB/MPJ)
E07	6823	10-12	2000	Mon	881 881 881 1 798 68 798 68 64562 21846 76638 ... 69683 81899 79804 000 000	USB	(AB/MPJ)
E07	5823	10-12	2020	Mon	881 881 881 1 798 68 798 68 64562 21846 76638 ... 69683 81899 79804 000 000	USB	(AB/MPJ)
E07	5123	10-12	2040	Mon	881 881 881 1 798 68 798 68 64562 21846 76638 ... 69683 81899 79804 000 000	USB	(AB/MPJ/RL)
E07	14364	11-12	0700	Tue	399 399 399 1 211 111 211 111 87847 98405 38354 ... 95116 44809 34774 000 000	USB	(AB-RUS)

E07	14964	11-12	0720	Tue	399 399 399 1 211 111 211 111 87847 98405 38354 ... 95116 44809 34774 000 000	USB	(AB-RUS)
E07	15964	11-12	0740	Tue	399 399 399 1 211 111 211 111 87847 98405 38354 ... 95116 44809 34774 000 000	USB	(AB-RUS)
E07	11493	11-12	1100	Tue	411 411 411 000	USB	(AB/MPJ/RL-HOL)
E07	10193	11-12	1120	Tue	411 411 411 000	USB	(AB/MPJ/RL-HOL)
E07	6771	12-12	1800	Wed	785 785 785 1 379 73 379 73 44446 38733 37682 ... 05951 69215 20737 000 000	USB	(AB/RL-HOL/MPJ/LA6LU)
E07	5871	12-12	1820	Wed	785 785 785 1 379 73 379 73 44446 38733 37682 ... 05951 69215 20737 000 000	USB	(AB/MPJ/LA6LU)
E07	4571	12-12	1840	Wed	785 785 785 1 379 73 379 73 44446 38733 37682 ... 05951 69215 20737 000 000	USB	(AB/MPJ/LA6LU)
E07	6823	12-12	2000	Wed	881 881 881 1 798 68 798 68 64562 21846 76638 ... 69683 81899 79804 000 000	USB	(AB/MPJ/BW3-HOL/LA6LU)
E07	5823	12-12	2020	Wed	881 881 881 1 798 68 798 68 64562 21846 76638 ... 69683 81899 79804 000 000	USB	(AB/MPJ/BW3-HOL/LA6LU)
E07	5123	12-12	2040	Wed	881 881 881 1 798 68 798 68 64562 21846 76638 ... 69683 81899 79804 000 000	USB	(AB/MPJ/LA6LU)
E07	10226	13-12	1410	Thu	674 674 674 1 362 79 362 79 14319 30573 56686 ... 59729 89243 29007 000 000	USB	(AB/MPJ/HFD)
E07	9226	13-12	1430	Thu	674 674 674 1 362 79 362 79 14319 30573 56686 ... 59729 89243 29007 000 000	USB	(AB/MPJ/HFD)
E07	8126	13-12	1450	Thu	674 674 674 1 362 79 362 79 14319 30573 56686 ... 59729 89243 29007 000 000	USB	(AB/HFD)
E07	14364	14-12	0700	Fri	399 399 399 1 211 111 211 111 87847 98405 38354 ... 95116 44809 34774 000 000	USB	(AB)
E07	14964	14-12	0720	Fri	399 399 399 1 211 111 211 111 87847 98405 38354 ... 95116 44809 34774 000 000	USB	(AB)
E07	15964	14-12	0740	Fri	399 399 399 1 211 111 211 111 87847 98405 38354 ... 95116 44809 34774 000 000	USB	(AB)
E07	11493	14-12	1100	Fri	411 411 411 000	USB	(AB/RL-HOL/MPJ)
E07	10193	14-12	1120	Fri	411 411 411 000	USB	(AB/MPJ)
E07	8123	15-12	0700	Sat	134 134 134 000	USB	(AB)
E07	9323	15-12	0720	Sat	134 134 134 000	USB	(AB)
E07	10226	15-12	1410	Sat	674 674 674 1 362 79 362 79 14319 30573 56686 ... 59729 89243 29007 000 000	USB	(AB/MPJ)
E07	9226	15-12	1430	Sat	674 674 674 1 362 79 362 79 14319 30573 56686 ... 59729 89243 29007 000 000	USB	(AB/MPJ)
E07	8126	15-12	1450	Sat	674 674 674 1 362 79 362 79 14319 30573 56686 ... 59729 89243 29007 000 000	USB	(AB)
E07	8123	16-12	0700	Sun	134 134 134 000	USB	(AB)
E07	9323	16-12	0720	Sun	134 134 134 000	USB	(AB)
E07	6771	16-12	1800	Sun	785 1 9237 173 46681 93338 70700 ... 95401 59913 56505 000 000	USB	(MPJ)
E07	5871	16-12	1825	Sun	785 1 9237 173 46681 93338 70700 ... 95401 59913 56505 000 000	USB	(MPJ)
E07	4571	16-12	1845	Sun	785 1 9237 173 46681 93338 70700 ... 95401 59913 56505 000 000	USB	(MPJ)
E07	6823	17-12	2000	Mon	881 881 881 1 798 68 798 68 64562 21846 76638 ... 69683 81899 79804 000 000	USB	(AB/MPJ/RL-HOL)
E07	5823	17-12	2020	Mon	881 881 881 1 798 68 798 68 64562 21846 76638 ... 69683 81899 79804 000 000	USB	(AB/MPJ)
E07	5123	17-12	2040	Mon	881 881 881 1 798 68 798 68 64562 21846 76638 ... 69683 81899 79804 000 000	USB	(AB)
E07	14364	18-12	0700	Tue	399 399 399 000	USB	(AB)
E07	14964	18-12	0720	Tue	399 399 399 000	USB	(AB)
E07	11493	18-12	1100	Tue	411 411 411 1 410 109 410 109 93956 48987 12632 ... 43117 01286 63218 000 000	USB	(AB/MPJ)
E07	10193	18-12	1120	Tue	411 411 411 1 410 109 410 109 93956 48987 12632 ... 43117 01286 63218 000 000	USB	(AB/MPJ)
E07	8193	18-12	1140	Tue	411 411 411 1 410 109 410 109 93956 48987 12632 ... 43117 01286 63218 000 000	USB	(AB/RL-HOL/MPJ)

E07	6771	19-12	1800	Wed	785 1 9237 173 46681 93338 70700 ... 95401 59913 56505 000 000	USB	(AB/MPJ)
E07	5871	19-12	1822	Wed	785 1 9237 173 46681 93338 70700 ... 95401 59913 56505 000 000	USB	(AB)
E07	4571	19-12	1846	Wed	785 1 9237 173 46681 93338 70700 ... 95401 59913 56505 000 000	USB	(AB/MPJ)
E07	6823	19-12	2000	Wed	881 881 881 1 798 68 798 68 64562 21846 76638 ... 69683 81899 79804 000 000	USB	(AB/MPJ)
E07	5823	19-12	2020	Wed	881 881 881 1 798 68 798 68 64562 21846 76638 ... 69683 81899 79804 000 000	USB	(AB/MPJ/LA6LU)
E07	5123	19-12	2040	Wed	881 881 881 1 798 68 798 68 64562 21846 76638 ... 69683 81899 79804 000 000	USB	(AB/GHn/LA6LU)
E07	10226	20-12	1410	Thu	674 674 674 000	USB	(AB/MPJ)
E07	9226	20-12	1430	Thu	674 674 674 000	USB	(AB/MPJ)
E07	14364	21-12	0700	Fri	399 399 399 000	USB	(AB-RUS)
E07	14964	21-12	0720	Fri	399 399 399 000	USB	(AB)
E07	11493	21-12	1100	Fri	411 411 411 1 410 109 410 109 93956 48987 12632 ... 43117 01286 63218 000 000	USB	(AB/MPJ)
E07	10193	21-12	1120	Fri	411 411 411 1 410 109 410 109 93956 48987 12632 ... 43117 01286 63218 000 000	USB	(AB/MPJ)
E07	8193	21-12	1140	Fri	411 411 411 1 410 109 410 109 93956 48987 12632 ... 43117 01286 63218 000 000	USB	(AB/MPJ)
E07	8123	22-12	0700	Sat	134 134 134 000	USB	(AB)
E07	9323	22-12	0720	Sat	134 134 134 000	USB	(AB)
E07	8123	23-12	0700	Sun	134 134 134 000	USB	(AB)
E07	9323	23-12	0720	Sun	134 134 134 000	USB	(AB)
E07	6771	23-12	1800	Sun	785 785 785 000	USB	(AB/MPJ)
E07	5871	23-12	1820	Sun	785 785 785 000	USB	(AB/MPJ)
E07	6823	24-12	2000	Mon	881 881 881 1 257 43 257 43 09075 47963 82881 ... 68374 09988 07384 000 000	USB	(AB-S)
E07	5823	24-12	2020	Mon	881 881 881 1 257 43 257 43 09075 47963 82881 ... 68374 09988 07384 000 000	USB	(AB-S)
E07	5123	24-12	2040	Mon	881 881 881 1 257 43 257 43 09075 47963 82881 ... 68374 09988 07384 000 000	USB	(AB-S)
E07	14364	25-12	0700	Tue	399 399 399 1 596 93 596 93 40281 70478 79706 ... 34309 95607 27649 000 000	USB	(AB)
E07	14964	25-12	0720	Tue	399 399 399 1 596 93 596 93 40281 70478 79706 ... 34309 95607 27649 000 000	USB	(AB)
E07	15964	25-12	0740	Tue	399 399 399 1 596 93 596 93 40281 70478 79706 ... 34309 95607 27649 000 000	USB	(AB)
E07	6771	26-12	1800	Wed	785 469 188 469 188 00625 69093 05939 ... 43314 04141 05246 000 000	USB	(AB)
E07	5871	26-12	1826	Wed	785 469 188 469 188 00625 69093 05939 ... 43314 04141 05246 000 000	USB	(AB)
E07	4571	26-12	1854	Wed	785 469 188 469 188 00625 69093 05939 ... 43314 04141 05246 000 000	USB	(AB)
E07	6823	26-12	2000	Wed	881 881 881 1 257 43 257 43 09075 47963 82881 ... 68374 09988 07384 000 000	USB	(AB)
E07	5823	26-12	2020	Wed	881 881 881 1 257 43 257 43 09075 47963 82881 ... 68374 09988 07384 000 000	USB	(AB)
E07	5123	26-12	2040	Wed	881 881 881 1 257 43 257 43 09075 47963 82881 ... 68374 09988 07384 000 000	USB	(AB)
E07	14364	28-12	0700	Fri	399 399 399 1 596 93 596 93 40281 70478 79706 ... 34309 95607 27649 000 000	USB	(AB)
E07	14964	28-12	0720	Fri	399 399 399 1 596 93 596 93 40281 70478 79706 ... 34309 95607 27649 000 000	USB	(AB)
E07	15964	28-12	0740	Fri	399 399 399 1 596 93 596 93 40281 70478 79706 ... 34309 95607 27649 000 000	USB	(AB)
E07	11493	28-12	1100	Fri	411 411 411 000	USB	(AB)
E07	10193	28-12	1120	Fri	411 411 411 000	USB	(AB)
E07	8123	29-12	0700	Sat	134 134 134 1 755 55 755 55 57236 07078 94374 ... 81384 15298 36438 000 000	USB	(AB)
E07	9323	29-12	0720	Sat	134 134 134 1 755 55 755 55 57236 07078 94374 ... 81384 15298 36438 000 000	USB	(AB)
E07	10423	29-12	0740	Sat	134 134 134 1 755 55 755 55 57236 07078 94374 ... 81384 15298 36438 000 000	USB	(AB)

E07	10226	29-12	1410	Sat	674 1 9320 85 35677 46554 71973 ... 60352 84363 39668 000 000	USB	(MPJ)
E07	9226	29-12	1430	Sat	674 1 9320 85 35677 46554 71973 ... 60352 84363 39668 000 000	USB	(MPJ)
E07	8126	29-12	1450	Sat	674 1 9320 85 35677 46554 71973 ... 60352 84363 39668 000 000	USB	(MPJ)
E07	8123	30-12	0700	Sun	134 134 134 1 755 55 755 55 57236 07078 94374 ... 81384 15298 36438 000 000	USB	(AB)
E07	9323	30-12	0720	Sun	134 134 134 1 755 55 755 55 57236 07078 94374 ... 81384 15298 36438 000 000	USB	(AB)
E07	10423	30-12	0740	Sun	134 134 134 1 755 55 755 55 57236 07078 94374 ... 81384 15298 36438 000 000	USB	(AB)
E07	6771	30-12	1800	Sun	785 469 188 469 188 00625 69093 05939 ... 43314 04141 05246 000 000	USB	(AB/MPJ)
E07	5871	30-12	1827	Sun	785 469 188 469 188 00625 69093 05939 ... 43314 04141 05246 000 000	USB	(AB/MPJ)
E07	4571	30-12	1852	Sun	785 469 188 469 188 00625 69093 05939 ... 43314 04141 05246 000 000	USB	(AB)
E07	6823	31-12	2000	Mon	881 881 881 1 257 43 257 43 09075 47963 82881 ... 68374 09988 07384 000 000	USB	(AB/MPJ)
E07	5823	31-12	2020	Mon	881 881 881 1 257 43 257 43 09075 47963 82881 ... 68374 09988 07384 000 000	USB	(AB/MPJ)
E07	5123	31-12	2040	Mon	881 881 881 1 257 43 257 43 09075 47963 82881 ... 68374 09988 07384 000 000	USB	(AB)
E07a	11121	1-12	0900	Sat	124 124 124 000	USB	(AB/HFD)
E07a	12221	1-12	0920	Sat	124 124 124 000	USB	(AB/HFD)
E07a	5877	5-12	2100	Wed	825 825 825 000	USB	(AB)
E07a	5277	5-12	2120	Wed	825 825 825 000	USB	(AB)
E07a	5111	6-12	0530	Thu	189 189 189 000	USB	(AB)
E07a	5811	6-12	0550	Thu	189 189 189 000	USB	(AB)
E07a	5887	7-12	1610	Fri	830 830 830 000	USB	(AB/MPJ/RL-HOL/HFD)
E07a	5387	7-12	1630	Fri	830 830 830 000	USB	(AB/MPJ/RL-HOL/HFD)
E07a	11121	8-12	0900	Sat	124 124 124 000	USB	(AB)
E07a	12221	8-12	0920	Sat	124 124 124 000	USB	(AB)
E07a	5877	12-12	2100	Wed	825 825 825 000	USB	(AB/LA6LU)
E07a	5277	12-12	2120	Wed	825 825 825 000	USB	(AB/BW3-D/LA6LU)
E07a	5111	13-12	0530	Thu	189 189 189 000	USB	(AB)
E07a	5811	13-12	0550	Thu	189 189 189 000	USB	(AB)
E07a	5887	14-12	1610	Fri	830 830 830 000	USB	(AB/MPJ)
E07a	5387	14-12	1630	Fri	830 830 830 000	USB	(AB/MPJ)
E07a	11121	15-12	0900	Sat	124 124 124 000	USB	(AB)
E07a	12221	15-12	0920	Sat	124 124 124 000	USB	(AB)
E07a	5877	19-12	2100	Wed	825 825 825 000	USB	(AB/LA6LU/RL-HOL)
E07a	5277	19-12	2120	Wed	825 825 825 000	USB	(AB/LA6LU)
E07a	5111	20-12	0530	Thu	189 189 189 000	USB	(AB)
E07a	5811	20-12	0550	Thu	189 189 189 000	USB	(AB)
E07a	5887	21-12	1610	Fri	830 830 830 000	USB	(AB/MPJ)
E07a	5387	21-12	1630	Fri	830 830 830 000	USB	(AB/MPJ)
E07a	11121	22-12	0900	Sat	124 124 124 000	USB	(AB)
E07a	12221	22-12	0920	Sat	124 124 124 000	USB	(AB)
E07a	5877	26-12	2100	Wed	825 825 825 000	USB	(AB)

E07a	5277	26-12	2120	Wed	825 825 825 000	USB	(AB)
E07a	5111	27-12	0530	Thu	189 189 189 000	USB	(AB)
E07a	5811	27-12	0550	Thu	189 189 189 000	USB	(AB)
E07a	5887	28-12	1610	Fri	830 830 830 000	USB	(AB/MPJ)
E07a	5387	28-12	1630	Fri	830 830 830 000	USB	(AB/MPJ)
E07a	11121	29-12	0900	Sat	124 124 124 000	USB	(AB)
E07a	12221	29-12	0920	Sat	124 124 124 000	USB	(AB)
E11	4505	1-12	0710	Sat	492/00	USB	(AB)
E11	8680	1-12	1300	Sat	588/00	USB	(MPJ)
E11	14666	1-12	1345	Sat	915/00	USB	(AB/MPJ)
E11	9443	1-12	1705	Sat	395/00	USB	(AB/MPJ)
E11	11107	1-12	2005	Sat	Null message, but too weak to copy	USB	(MPJ)
E11	4505	2-12	0710	Sun	498/00	USB	(AB)
E11	4505	2-12	1605	Sun	235/00	USB	(AB/MPJ)
E11	10448	2-12	1625	Sun	976 (?)/00	USB	(MPJ-CZE)
E11	16335	2-12	1650	Sun	924/00	USB	(MPJ-GRC)
E11	12924	2-12	1745	Sun	245/00	USB	(MPJ)
E11	10487	2-12	1910	Sun	617/00	USB	(MPJ-HOL)
E11	11107	2-12	2005	Sun	360/00	USB	(MPJ-GRC/BW3-HOL)
E11	9200	3-12	0600	Mon	182/00	USB	(AB)
E11	11450	3-12	0640	Mon	945/00	USB	(AB)
E11	10213	3-12	0745	Mon	264/00	USB	(AB)
E11	4909	3-12	0820	Mon	439/00	USB	(AB)
E11	8597	3-12	0900	Mon	535/00	USB	(AB)
E11	7984	3-12	1045	Mon	698/00	USB	(AB/MPJ)
E11	12924	3-12	1745	Mon	242/00	USB	(AB-AUT)
E11	6804	4-12	0700	Tue	570/00	USB	(AB)
E11	9130	4-12	0715	Tue	630/00	USB	(AB)
E11	11104	4-12	0845	Tue	150/00	USB	(AB)
E11	7317	4-12	1205	Tue	466/00	USB	(AB/MPJ)
E11	14666	4-12	1346	Tue	915/00	USB	(MPJ)
E11	11493	4-12	1645	Tue	338/00	USB	(AB)
E11	12067	4-12	1925	Tue	Null message but too weak to copy	USB	(MPJ)
E11	11450	5-12	0640	Wed	944/00	USB	(AB)
E11	17378	5-12	0745	Wed	343/00	USB	(AB)
E11	8597	5-12	0900	Wed	532/00	USB	(AB)
E11	8180	5-12	0930	Wed	276/00	USB	(AB)
E11	7984	5-12	1045	Wed	691/00	USB	(AB)
E11	7317	5-12	1205	Wed	464/00	USB	(MPJ)

E11	10448	5-12	1625	Wed	976/00	USB	(MPJ-CZE)
E11	9443	5-12	1705	Wed	393/00	USB	(MPJ)
E11	8545	5-12	1730	Wed	404/00	USB	(AB/MPJ)
E11	7840	6-12	0645	Thu	519/00	USB	(AB)
E11	4909	6-12	0820	Thu	432/00	USB	(AB)
E11	11104	6-12	0845	Thu	159/00	USB	(AB)
E11	5409	6-12	1530	Thu	267/00	USB	(AB/MPJ)
E11	11493	6-12	1645	Thu	338/00	USB	(AB)
E11	9200	7-12	0600	Fri	182/00	USB	(AB)
E11	6804	7-12	0700	Fri	574/00	USB	(AB)
E11	9130	7-12	0715	Fri	637/00	USB	(AB)
E11	17378	7-12	0745	Fri	344/00	USB	(AB/HFD)
E11	10487	7-12	1910	Fri	614/00	USB	(AB-AUT/MPJ-AUT/HFD)
E11	4505	8-12	0710	Sat	496/00	USB	(AB)
E11	7377	8-12	0805	Sat	314/00	USB	(AB/HFD)
E11	14666	8-12	1345	Sat	915/00	USB	(AB-AUT/MPJ)
E11	9443	8-12	1705	Sat	395/00	USB	(MPJ)
E11	8545	8-12	1730	Sat	404/00	USB	(MPJ)
E11	11107	8-12	2005	Sat	365/00	USB	(MPJ-AUT)
E11	4505	9-12	0710	Sun	498/00	USB	(AB)
E11	7377	9-12	0805	Sun	312/00	USB	(AB)
E11	10448	9-12	1625	Sun	978/00	USB	(AB-POL)
E11	4909	10-12	0450	Mon	410/00	USB	(AB-POL)
E11	9200	10-12	0600	Mon	188/00	USB	(HFD)
E11	11450	10-12	0640	Mon	948/00	USB	(AB)
E11	9200	10-12	0700	Mon	188/00	USB	(AB)
E11	4909	10-12	0820	Mon	432/00	USB	(AB)
E11	7984	10-12	1045	Mon	696/00	USB	(AB/MPJ)
E11	20167	10-12	1225	Mon	522/00	USB	(AB/MPJ)
E11	6984	10-12	1900	Mon	649/00	USB	(AB)
E11	6804	11-12	0700	Tue	576/00	USB	(AB)
E11	9130	11-12	0715	Tue	634/00	USB	(AB)
E11	14611	11-12	0820	Tue	133/00	USB	(AB)
E11	8800	11-12	1000	Tue	302/00	USB	(AB)
E11	7317	11-12	1205	Tue	466/00	USB	(AB/MPJ)
E11	14666	11-12	1345	Tue	912/00	USB	(AB)
E11	4505	11-12	1605	Tue	233/00	USB	(AB/GHn/MPJ)
E11	11493	11-12	1645	Tue	335/00	USB	(AB/MPJ-HOL)

E11	11450	12-12	0640	Wed	944/00	USB	(AB)
E11	14611	12-12	0820	Wed	133/00	USB	(AB)
E11	8597	12-12	0900	Wed	Only a test tone. No transmission	USB	(AB)
E11	8180	12-12	0930	Wed	279/00	USB	(AB)
E11	7984	12-12	1045	Wed	697/00	USB	(AB/MPJ)
E11	7317	12-12	1205	Wed	464/00	USB	(RL-HOL/MPJ)
E11	10448	12-12	1625	Wed	970/00	USB	(AB/RL-HOL/MPJ)
E11	8545	12-12	1730	Wed	404/00	USB	(AB/RL-HOL/MPJ/LA6LU)
E11	4909	13-12	0820	Thu	434/00	USB	(AB)
E11	11104	13-12	0845	Thu	155/00	USB	(AB)
E11	8180	13-12	0930	Thu	277/00	USB	(AB)
E11	11106	13-12	1300	Thu	580/00	USB	(HFD)
E11	11493	13-12	1645	Thu	334/00	USB	(AB)
E11	5779	13-12	1730	Thu	410/00	USB	(AB/MPJ)
E11	6849	13-12	1900	Thu	641/00	USB	(AB/MPJ)
E11	9200	14-12	0600	Fri	180/00	USB	(AB)
E11	6804	14-12	0700	Fri	575/00	USB	(AB)
E11	9130	14-12	0715	Fri	635/00	USB	(AB)
E11	8800	14-12	1000	Fri	304/00	USB	(AB/RL-HOL)
E11	20167	14-12	1225	Fri	525/00	USB	(AB-AUT/MPJ-CZE)
E11	16335	14-12	1650	Fri	926/00	USB	(AB-AUT/MPJ-AUT)
E11	7377	15-12	0805	Sat	310/00	USB	(AB)
E11	11116	15-12	1300	Sat	585/00	USB	(AB)
E11	14666	15-12	1345	Sat	910/00	USB	(AB/MPJ-CZE)
E11	8545	15-12	1730	Sat	409/00	USB	(MPJ)
E11	11107	15-12	2005	Sat	366/00	USB	(MPJ-I)
E11	7377	16-12	0805	Sun	319/00	USB	(AB)
E11	4505	16-12	1605	Sun	236/00	USB	(AB)
E11	10448	16-12	1625	Sun	976/00	USB	(MPJ-CZE)
E11	16335	16-12	1650	Sun	921/00	USB	(MPJ-AUT)
E11	12924	16-12	1745	Sun	244/00	USB	(MPJ-CZE)
E11	11107	16-12	2005	Sun	365/00	USB	(MPJ-HOL)
E11	4909	17-12	0450	Mon	414/00	USB	(AB)
E11	11450	17-12	0640	Mon	949/00	USB	(AB)
E11	10213	17-12	0745	Mon	267/00	USB	(AB)
E11	8597	17-12	0900	Mon	537/00	USB	(AB)
E11	20167	17-12	1225	Mon	Null message	USB	(AB/MPJ)
E11	6984	17-12	1900	Mon	648/00	USB	(AB/MP/RL-HOL)

E11	7840	18-12	0645	Tue	518/00	USB	(AB)
E11	6804	18-12	0700	Tue	576/00	USB	(AB)
E11	14611	18-12	0820	Tue	132/00	USB	(AB)
E11	11104	18-12	0845	Tue	156/00	USB	(AB)
E11	8800	18-12	1000	Tue	309/00	USB	(AB)
E11	7317	18-12	1205	Tue	464/00	USB	(MPJ)
E11	14666	18-12	1345	Tue	912/00	USB	(AB)
E11	4505	18-12	1605	Tue	238/00	USB	(AB/GHn)
E11	11493	18-12	1645	Tue	338/00	USB	(MPJ-NOR)
E11	11450	19-12	0640	Wed	941/00	USB	(AB)
E11	17378	19-12	0745	Wed	346/00	USB	(AB-QAT)
E11	14611	19-12	0820	Wed	138/00	USB	(AB)
E11	8597	19-12	0900	Wed	534/00	USB	(AB/LA6LU)
E11	8180	19-12	0930	Wed	273/00	USB	(AB)
E11	7317	19-12	1205	Wed	466/00	USB	(AB/MPJ/LA6LU)
E11	9443	19-12	1705	Wed	399/00	USB	(AB/MPJ/BW3-D)
E11	8545	19-12	1730	Wed	409/00	USB	(AB/MPJ/BW3-D)
E11	7840	20-12	0645	Thu	517/00	USB	(AB)
E11	11104	20-12	0845	Thu	156/00	USB	(AB)
E11	8180	20-12	0930	Thu	275/00	USB	(AB)
E11	11116	20-12	1300	Thu	586/00	USB	(AB/MPJ)
E11	5409	20-12	1530	Thu	266/00	USB	(MPJ/BW3-D)
E11	11493	20-12	1645	Thu	332/00	USB	(AB-I)
E11	5779	20-12	1730	Thu	410/00	USB	(MPJ)
E11	6849	20-12	1900	Thu	644/00	USB	(AB/MPJ)
E11	8800	21-12	1000	Fri	309/00	USB	(AB)
E11	20167	21-12	1225	Fri	528/00	USB	(AB-AUT/MPJ-AUT)
E11	16335	21-12	1650	Fri	921/00	USB	(MPJ-HOL)
E11	10487	21-12	1910	Fri	618/00	USB	(AB/MPJ)
E11	4505	22-12	0710	Sat	495/00	USB	(AB)
E11	7377	22-12	0805	Sat	319/00	USB	(AB)
E11	11116	22-12	1300	Sat	586/00	USB	(MPJ)
E11	14666	22-12	1345	Sat	910/00	USB	(MPJ)
E11	9443	22-12	1705	Sat	393/00	USB	(MPJ)
E11	8545	22-12	1730	Sat	403/00	USB	(MPJ)
E11	11107	22-12	2005	Sat	367/00	USB	(MPJ-NOR)
E11	4505	23-12	0710	Sun	496/00	USB	(AB)
E11	7377	23-12	0805	Sun	315/00	USB	(AB)
E11	4505	23-12	1605	Sun	238/00	USB	(AB/GHn/MPJ)

E11	16335	23-12	1650	Sun	925/00	USB	(AB-GRC)
E11	10487	23-12	1910	Sun	613/00	USB	(MPJ-I)
E11	9200	24-12	0600	Mon	180/00	USB	(AB)
E11	10213	24-12	0745	Mon	267/00	USB	(AB)
E11	4909	24-12	0820	Mon	439/00	USB	(AB)
E11	8597	24-12	0900	Mon	535/00	USB	(AB)
E11	12924	24-12	1745	Mon	242/00	USB	(AB)
E11	6984	24-12	1900	Mon	640/00	USB	(AB)
E11	7840	25-12	0645	Tue	517/00	USB	(AB)
E11	9130	25-12	0715	Tue	637/00	USB	(AB)
E11	14611	25-12	0820	Tue	131/00	USB	(AB)
E11	8800	25-12	1000	Tue	305/00	USB	(AB)
E11	17378	26-12	0745	Wed	344/00	USB	(AB)
E11	14611	26-12	0820	Wed	130/00	USB	(AB)
E11	8597	26-12	0900	Wed	538/00	USB	(AB)
E11	7984	26-12	1045	Wed	693/00	USB	(AB)
E11	9443	26-12	1705	Wed	391/00	USB	(AB)
E11	7840	27-12	0645	Thu	512/00	USB	(AB)
E11	4909	27-12	0820	Thu	431/00	USB	(AB)
E11	11116	27-12	1300	Thu	581/00	USB	(AnEur)
E11	5409	27-12	1530	Thu	266/00	USB	(AB/BW3-HOL)
E11	5779	27-12	1730	Thu	414/00	USB	(AB)
E11	6849	27-12	1900	Thu	646/00	USB	(AB/BW3-HOL)
E11	9130	28-12	0715	Fri	633/00	USB	(AB)
E11	17378	28-12	0745	Fri	346/00	USB	(AB)
E11	8800	28-12	1000	Fri	307/00	USB	(AB)
E11	4505	29-12	0710	Sat	490/00	USB	(AB)
E11	9443	29-12	1705	Sat	399/00	USB	(MPJ)
E11	4505	30-12	0710	Sun	492/00	USB	(AB)
E11	7377	30-12	0805	Sun	312/00	USB	(AB)
E11	4505	30-12	1605	Sun	233/00	USB	(AB/MPJ)
E11	10448	30-12	1625	Sun	977/00	USB	(AB/MPJ)
E11	16335	30-12	1650	Sun	929/00	USB	(AB-GRC)
E11	12924	30-12	1745	Sun	248/00	USB	(MPJ-CZE)c
E11	10487	30-12	1910	Sun	610/00	USB	(MPJ-I/AB)
E11	11107	30-12	2005	Sun	Active-unreadable	USB	(MPJ-CZE)
E11	9200	31-12	0600	Mon	189/00	USB	(AB)
E11	11450	31-12	0640	Mon	941/00	USB	(AB)
E11	10213	31-12	0745	Mon	268/00	USB	(AB)

E11	4909	31-12	0820	Mon	436/00	USB	(AB)
E11	8597	31-12	0900	Mon	538/00	USB	(AB)
E11	7984	31-12	1045	Mon	699/00	USB	(AB)
E11	12924	31-12	1745	Mon	244/00	USB	(AB/MPJ)
E11	6984	31-12	1900	Mon	643/00	USB	(AB/MPJ)
E11a	7377	1-12	0805	Sat	310/39 Attention 84294 76014 50728 ... 18163 32259 03779 Attention (message repeated) Out	USB	(AB)
E11a	7377	2-12	0805	Sun	310/39 Attention 84294 76014 50728 ... 18163 32259 03779 Attention (message repeated) Out	USB	(AB)
E11a	4909	3-12	0450	Mon	415/38 Attention 28073 37667 27486 ... 34872 07348 52732 Attention (message repeated) Out	USB	(AB)
E11a	20167	3-12	1225	Mon	Message (too weak to copy)	USB	(AB-G/MPJ-AUT)
E11a	6984	3-12	1900	Mon	641/34 Attention 17776 62508 85432 ... 07248 12531 08859 Attention (message repeated) Out	USB	(AB/MPJ)
E11a	14611	4-12	0820	Tue	131/37 Attention 45249 46586 33088 ... 26424 96891 44462 Attention (message repeated) Out	USB	(AB)
E11a	8800	4-12	1000	Tue	306/23 Attention 22796 22449 97347 ... 46542 78472 59359 Attention (message repeated) Out	USB	(AB)
E11a	4505	4-12	1605	Tue	232/31 Attention 65229 02174 27097 03116 74477 ... 04387 76876 47638 Attention (message repeated) Out	USB	(AB)
E11a	14611	5-12	0820	Wed	131/37 Attention 45249 46586 33088 ... 26424 96891 44462 Attention (message repeated) Out	USB	(AB)
E11a	5779	6-12	1730	Thu	415/38 Attention 28073 37667 27486 ... 34872 07348 52732 Attention (message repeated) Out	USB	(AB/MPJ)
E11a	6849	6-12	1900	Thu	641/34 Attention 17776 62508 85432 ... 07248 12531 08859 Attention (message repeated) Out	USB	(AB-AUT/MPJ)
E11a	8800	7-12	1000	Fri	306/23 Attention 22796 22449 97347 ... 46542 78472 59359 Attention (message repeated) Out	USB	(AB)
E11a	20167	7-12	1225	Fri	522/40 Attention 69395 60769 46430 ... 25110 33206 51510 Attention (message repeated) Out	USB	(AB-AUT/MPJ-CZE)
E11a	16335	7-12	1650	Fri	926/36 Attention 15617 53188 90495 ... 70161 23990 14456 Attention (message repeated) Out	USB	(AB-AUT/MPJ)
E11a	4505	9-12	1605	Sun	232/31 Attention 65229 02174 27097 ... 04387 76876 47638 Attention (message repeated) Out	USB	(AB/GHn/RL-HOL)
E11a	10213	10-12	0745	Mon	262/38 Attention 22760 59971 87729 ... 95190 05002 14493 Attention (message repeated) Out	USB	(AB)
E11a	8597	10-12	0900	Mon	535/33 Attention 67335 99039 59433 ... 55586 39656 09986 Attention (message repeated) Out	USB	(AB)
E11a	7840	11-12	0645	Tue	512/38 Attention 02568 46194 04033 ... 59053 45378 54586 Attention (message repeated)	USB	(AB)

					Out			
E11a	17378	12-12	0745	Wed	342/37 too weak to copy	USB		(AB-QAT)
E11a	9443	12-12	1705	Wed	395/33 Attention 32119 79228 77602 ... 50694 12730 49145 Attention (message repeated)	USB		(AB/MPJ/LA6LU)
					Out			
E11a	7840	13-12	0645	Thu	512/38 Attention 02568 46194 04033 ... 59053 45378 54586 Attention (message repeated)	USB		(AB)
					Out			
E11a	5409	13-12	1530	Thu	262/38 Attention 22760 59971 87729 ... 95190 05002 14493 Attention (message repeated)	USB		(AB)
					Out			
E11a	17378	14-12	0745	Fri	342/37 too weak to copy	USB		(AB-AUT)
E11a	10487	14-12	1910	Fri	612/38 Attention 54305 49029 15883 ... 66338 85248 69370 Attention (message repeated)	USB		(AB-AUT/MPJ-AUT)
					Out			
E11a	4505	15-12	0710	Sat	496/35 Attention 76361 02661 96557 ... 07729 33913 52927 Attention (message repeated)	USB		(AB)
					Out			
E11a	9443	15-12	1705	Sat	395/33 Attention 32119 79228 77602 ... 50694 12730 49145 Attention (message repeated)	USB		(MPJ)
					Out			
E11a	4505	16-12	0710	Sun	496/35 Attention 76361 02661 96557 ... 07729 33913 52927 Attention (message repeated)	USB		(AB)
					Out			
E11a	10487	16-12	1910	Sun	612/38 Attention 54305 49029 15883 ... 66338 85248 69370 Attention (message repeated)	USB		(MPJ-I)
					Out			
E11a	9200	17-12	0600	Mon	180/24 Attention 79573 19949 18263 ... 57970 30258 18513 Attention (message repeated)	USB		(AB)
					Out			
E11a	4909	17-12	0820	Mon	430/31 Attention 37731 18992 48197 ... 34669 39969 95578 Attention (message repeated)	USB		(AB)
					Out			
E11a	7984	17-12	1045	Mon	694/27 Attention 73261 07192 62308 ... 67656 58003 53108 Attention (message repeated)	USB		(AB/MPJ)
					Out			
E11a	12924	17-12	1745	Mon	247/35 message (unreadable)	USB		(MPJ)
E11a	9130	18-12	0715	Tue	631/38 Attention 68839 45747 48524 ... 10974 20105 42692 Attention (message repeated)	USB		(AB)
					Out			
E11a	7984	19-12	1045	Wed	695/48 Attention 73880 37777 86224 ... 51759 08875 52348 Attention (message repeated)	USB		(AB/LA6LU)
					Out			
E11a	10448	19-12	1625	Wed	972/34 Attention 41992 18917 85668 ... 83063 98605 31373 Attention (message repeated)	USB		(AB/RL-HOL/MPJ/BW3-HOL)
					Out			
E11a	4909	20-12	0820	Thu	430/31 Attention 37731 18992 48197 ... 34669 39969 95578 Attention (message repeated)	USB		(AB)
					Out			
E11a	9200	21-12	0600	Fri	180/24 Attention 79573 19949 18263 ... 57970 30258 18513 Attention (message repeated)	USB		(AB)
					Out			
E11a	9130	21-12	0715	Fri	631/38 Attention 68839 45747 48524 ... 10974 20105 42692 Attention (message repeated)	USB		(AB)
					Out			
E11a	10448	23-12	1625	Sun	972/34 Attention 41992 18917 85668 ... 83063 98605 31373 Attention (message repeated)	USB		(AB-AUT/MPJ-GRC)

					Out			
E11a	12924	23-12	1745	Sun	247/35 Attn 00999 47995 71574 ... (QSB) __129_9980 41++5 Attn ...	USB		(MPJ-I)
E11a	11450	24-12	0640	Mon	942/32 Attention 53469 85194 19270 ... 91386 80877 98267 Attention (repeat message) Out	USB		(AB)
E11a	7984	24-12	1045	Mon	699/48 Attention 73880 37777 86224 ... 51759 08875 52348 Attention (message repeated)	USB		(AB)
					Out. Repeat of 19-12 with a different ID			
E11a	6804	25-12	0700	Tue	574/34 Attention 86088 42964 27089 ... 06851 64736 56589 Attention (message repeated)	USB		(AB)
					Out			
E11a	11104	25-12	0845	Tue	152/24 Attention 13661 22981 88801 ... 85122 13520 50436 Attention (message repeated)	USB		(AB)
					Out			
E11a	11450	26-12	0640	Wed	942/32 Attention 53469 85194 19270 ... 91386 80877 98267 Attention (repeat message) Out	USB		(AB)
E11a	8180	26-12	0930	Wed	278/32 Attention 70266 66485 27005 ... 13213 39100 40847 Attention (message repeated)	USB		(AB)
					Out			
E11a	7317	26-12	1205	Wed	462/35 Attention 40064 68182 83665 ... 36235 26615 27800 Attention (message repeated)	USB		(AB)
					Out			
E11a	8545	26-12	1730	Wed	402/32 Attention 21853 03649 47270 ... 10609 77206 50475 Attention (message repeated)	USB		(AB)
					Out			
E11a	11104	27-12	0845	Thu	152/24 Attention 13661 22981 88801 ... 85122 13520 50436 Attention (message repeated)	USB		(AB)
					Out			
E11a	8180	27-12	0930	Thu	278/32 Attention 70266 66485 27005 ... 13213 39100 40847 Attention (message repeated)	USB		(AB)
					Out			
E11a	6804	28-12	0700	Fri	574/34 Attention 86088 42964 27089 ... 06851 64736 56589 Attention (message repeated)	USB		(AB)
					Out			
E11a	8545	29-12	1730	Sat	402/32 Attention 21853 03649 47270 ... 10609 77206 50475 Attention (message repeated)	USB		(MPJ)
					Out			
E17z	11170	6-12	0800	Thu	674 813 5 38163 33231 31323 32680 85418 813 5 00000	USB		(AB)
E17z	9820	6-12	0810	Thu	674 813 5 38163 33231 31323 32680 85418 813 5 00000	USB		(AB)
E17z	11170	13-12	0800	Thu	674 813 5 38163 33231 31323 32680 85418 813 5 00000	USB		(AB)
E17z	9820	13-12	0810	Thu	674 813 5 38163 33231 31323 32680 85418 813 5 00000	USB		(AB)
E17z	11170	20-12	0800	Thu	674 930 5 65962 57057 54661 01212 01578 930 5 00000	USB		(AB)
E17z	9820	20-12	0810	Thu	674 930 5 65962 57057 54661 01212 01578 930 5 00000	USB		(AB)
E17z	11170	27-12	0800	Thu	674 930 5 65962 57057 54661 01212 01578 930 5 00000	USB		(AB)
E17z	9820	27-12	0810	Thu	674 930 5 65962 57057 54661 01212 01578 930 5 00000	USB		(AB)
EGY	4648.7	11-12	1838	Tue	Egyptian diplo i.p. PPPBA 82602 00099 AB389 4F7E9 1C305 78A62 0F14D	SITOR-B 100/170		(AB)
F01	7684	5-12	1940	Wed	Russian diplo/intel.)576 100000+++++++162	FSK 200/500		(AB/MPJ/HFD)
F01	5326	5-12	1950	Wed	Russian diplo/intel.)576 100000+++++++162	FSK 200/500		(AB/MPJ/HFD)
F01	4029	5-12	2000	Wed	Russian diplo/intel.)576 100000+++++++162	FSK 200/500		(AB/MPJ/HFD)
F01	14421	12-12	0100	Wed	Russian diplo/intel.	FSK 200/500		(RL-J)
F01	14421	18-12	0100	Tue	Russian diplo/intel 68072 15736 74369 ... 56933 69285 84245 00000	FSK 200/500		(RL-J)
F01	18169	28-12	2230	Fri	Russian diplo/intel. Header: 11177 00116 46785 27056 01799	FSK 200/500		(Danix)

F01	15765	28-12	2240	Fri	Russian diplo/intel. Header: 11177 00116 46785 27056 01799	FSK 200/500	(Danix)
F01	18169	28-12	2330	Fri	Russian diplo/intel. Header: 11177 00116 46785 27056 01799	FSK 200/500	(Danix)
F01	15765	28-12	2340	Fri	Russian diplo/intel. Header: 11177 00116 46785 27056 01799	FSK 200/500	(Danix)
F01	10884	31-12	0025	Mon	Russian diplo/intel. Header: 11177 00117 98276 27057 02279	FSK 200/500	(Danix)
F01	8157	31-12	0035	Mon	Russian diplo/intel. Header: 11177 00117 98276 27057 02279	FSK 200/500	(Danix)
F01	10884	31-12	0125	Mon	Russian diplo/intel. Header: 11177 00117 98276 27057 02279	FSK 200/500	(Danix)
F01	8157	31-12	0135	Mon	Russian diplo/intel. Header: 11177 00117 98276 27057 02279	FSK 200/500	(Danix)
F03a	7837	3-12	1030	Mon	Polish intel.	FSK 100/200	(AB)
F03a	7837	3-12	1035	Mon	Polish intel.	FSK 100/200	(AB)
F03a	6906	3-12	1830	Mon	Polish intel.	FSK 100/200	(AB)
F03a	6906	3-12	1835	Mon	Polish intel.	FSK 100/200	(AB)
F03a	7837	5-12	1030	Wed	Polish intel.	FSK 100/200	(AB)
F03a	7837	5-12	1035	Wed	Polish intel.	FSK 100/200	(AB)
F03a	10200	6-12	0835	Thu	Polish intel.	FSK 100/200	(AB)
F03a	10200	6-12	0840	Thu	Polish intel.	FSK 100/200	(AB)
F03a	6906	6-12	1830	Thu	Polish intel.	FSK 100/200	(AB)
F03a	6906	6-12	1835	Thu	Polish intel.	FSK 100/200	(AB)
F03a	8680	7-12	0945	Fri	Polish intel.	FSK 100/200	(AB)
F03a	8680	7-12	0950	Fri	Polish intel.	FSK 100/200	(AB)
F03a	8680	7-12	1505	Fri	Polish intel.	BPSK-63	(AB)
F03a	8680	9-12	1505	Sun	Polish intel.	BPSK-63	(AB)
F03a	7837	10-12	1030	Mon	Polish intel.	FSK 100/200	(AB)
F03a	7837	10-12	1035	Mon	Polish intel.	FSK 100/200	(AB)
F03a	6906	10-12	1830	Mon	Polish intel.	FSK 100/200	(AB)
F03a	6906	10-12	1835	Mon	Polish intel.	FSK 100/200	(AB)
F03a	10200	11-12	0835	Tue	Polish intel.	FSK 100/200	(AB)
F03a	10200	11-12	0840	Tue	Polish intel.	FSK 100/200	(AB)
F03a	7837	12-12	1030	Wed	Polish intel.	FSK 100/200	(AB)
F03a	7837	12-12	1035	Wed	Polish intel.	FSK 100/200	(AB)
F03a	10200	13-12	0835	Thu	Polish intel.	FSK 100/200	(AB)
F03a	10200	13-12	0840	Thu	Polish intel.	FSK 100/200	(AB)
F03a	6480	13-12	1800	Thu	Polish intel.	FSK 100/200	(AB)
F03a	6480	13-12	1805	Thu	Polish intel.	FSK 100/200	(AB)
F03a	6906	13-12	1830	Thu	Polish intel.	FSK 100/200	(AB)
F03a	6906	13-12	1835	Thu	Polish intel.	FSK 100/200	(AB)
F03a	8680	14-12	0945	Fri	Polish intel.	FSK 100/200	(AB)
F03a	8680	14-12	0950	Fri	Polish intel.	FSK 100/200	(AB)
F03a	8680	14-12	1505	Fri	Polish intel.	BPSK-63	(AB)
F03a	7837	17-12	1030	Mon	Polish intel.	FSK 100/200	(AB)

F03a	7837	17-12	1035	Mon	Polish intel.	FSK 100/200	(AB)
F03a	6906	17-12	1830	Mon	Polish intel.	FSK 100/200	(AB)
F03a	6906	17-12	1835	Mon	Polish intel.	FSK 100/200	(AB)
F03a	10200	18-12	0835	Tue	Polish intel.	FSK 100/200	(AB)
F03a	10200	18-12	0840	Tue	Polish intel.	FSK 100/200	(AB)
F03a	8680	18-12	0945	Tue	Polish intel.	FSK 100/200	(AB)
F03a	8680	18-12	0950	Tue	Polish intel.	FSK 100/200	(AB)
F03a	6480	18-12	1800	Tue	Polish intel.	FSK 100/200	(AB)
F03a	6480	18-12	1805	Tue	Polish intel.	FSK 100/200	(AB)
F03a	7837	19-12	1030	Wed	Polish intel.	FSK 100/200	(AB)
F03a	7837	19-12	1035	Wed	Polish intel.	FSK 100/200	(AB)
F03a	10200	20-12	0835	Thu	Polish intel.	FSK 100/200	(AB)
F03a	10200	20-12	0840	Thu	Polish intel.	FSK 100/200	(AB)
F03a	6480	20-12	1800	Thu	Polish intel.	FSK 100/200	(AB)
F03a	6480	20-12	1805	Thu	Polish intel.	FSK 100/200	(AB)
F03a	6906	20-12	1830	Thu	Polish intel.	FSK 100/200	(AB)
F03a	6906	20-12	1835	Thu	Polish intel.	FSK 100/200	(AB)
F03a	8680	21-12	0945	Fri	Polish intel.	FSK 100/200	(AB)
F03a	8680	21-12	0950	Fri	Polish intel.	FSK 100/200	(AB)
F03a	8680	21-12	1505	Fri	Polish intel.	BPSK-63	(AB)
F03a	7837	24-12	1030	Mon	Polish intel.	FSK 100/200	(AB)
F03a	7837	24-12	1035	Mon	Polish intel.	FSK 100/200	(AB)
F03a	6906	24-12	1830	Mon	Polish intel.	FSK 100/200	(AB)
F03a	6906	24-12	1835	Mon	Polish intel.	FSK 100/200	(AB)
F03a	10200	25-12	0835	Tue	Polish intel.	FSK 100/200	(AB)
F03a	10200	25-12	0840	Tue	Polish intel.	FSK 100/200	(AB)
F03a	8680	25-12	0945	Tue	Polish intel.	FSK 100/200	(AB)
F03a	8680	25-12	0950	Tue	Polish intel.	FSK 100/200	(AB)
F03a	7837	26-12	1030	Wed	Polish intel.	FSK 100/200	(AB)
F03a	7837	26-12	1035	Wed	Polish intel.	FSK 100/200	(AB)
F03a	10200	27-12	0835	Thu	Polish intel.	FSK 100/200	(AB)
F03a	10200	27-12	0840	Thu	Polish intel.	FSK 100/200	(AB)
F03a	6480	27-12	1800	Thu	Polish intel.	FSK 100/200	(AB)
F03a	6480	27-12	1805	Thu	Polish intel.	FSK 100/200	(AB)
F03a	8680	28-12	1505	Fri	Polish intel.	BPSK-63	(AB)
F03a	8680	30-12	1505	Sun	Polish intel.	BPSK-63	(AB)
F03a	7837	31-12	1030	Mon	Polish intel.	FSK 100/200	(AB)
F03a	7837	31-12	1035	Mon	Polish intel.	FSK 100/200	(AB)
F03a	6906	31-12	1830	Mon	Polish intel.	FSK 100/200	(AB)

F03a	6906	31-12	1835	Mon	Polish intel.		FSK 100/200	(AB)
F03b	5371	5-12	0915	Wed	Polish intel.		FSK 200/400	(AB)
F03b	5371	5-12	0920	Wed	Polish intel.		FSK 200/400	(AB)
F03b	5371	12-12	0915	Wed	Polish intel.		FSK 200/400	(AB)
F03b	5371	12-12	0920	Wed	Polish intel.		FSK 200/400	(AB)
F03b	5371	13-12	0915	Thu	Polish intel.		FSK 200/400	(AB)
F03b	5371	13-12	0920	Thu	Polish intel.		FSK 200/400	(AB)
F03b	5371	19-12	0915	Wed	Polish intel.		FSK 200/400	(AB)
F03b	5371	19-12	0920	Wed	Polish intel.		FSK 200/400	(AB)
F03b	5371	20-12	0915	Thu	Polish intel.		FSK 200/400	(AB)
F03b	5371	20-12	0920	Thu	Polish intel.		FSK 200/400	(AB)
F03b	5371	26-12	0915	Wed	Polish intel.		FSK 200/400	(AB)
F03b	5371	26-12	0920	Wed	Polish intel.		FSK 200/400	(AB)
F03b	5371	27-12	0915	Thu	Polish intel.		FSK 200/400	(AB)
F03b	5371	27-12	0920	Thu	Polish intel.		FSK 200/400	(AB)
F03c	8800	3-12	0940	Mon	Polish Intel.		FSK 400/960	(AB)
F03c	8800	3-12	0945	Mon	Polish Intel.		FSK 400/960	(AB)
F03c	8800	7-12	0940	Fri	Polish Intel.		FSK 400/960	(AB)
F03c	8800	7-12	0945	Fri	Polish Intel.		FSK 400/960	(AB)
F03c	8800	10-12	0940	Mon	Polish Intel.		FSK 400/960	(AB)
F03c	8800	10-12	0945	Mon	Polish Intel.		FSK 400/960	(AB)
F03c	8800	11-12	0940	Tue	Polish Intel.		FSK 400/960	(AB)
F03c	8800	11-12	0945	Tue	Polish Intel.		FSK 400/960	(AB)
F03c	8800	14-12	0940	Fri	Polish Intel.		FSK 400/960	(AB)
F03c	8800	14-12	0945	Fri	Polish Intel.		FSK 400/960	(AB)
F03c	8800	17-12	0940	Mon	Polish Intel.		FSK 400/960	(AB)
F03c	8800	17-12	0945	Mon	Polish Intel.		FSK 400/960	(AB)
F03c	8800	21-12	0940	Fri	Polish Intel.		FSK 400/960	(AB)
F03c	8800	21-12	0945	Fri	Polish Intel.		FSK 400/960	(AB)
F03c	8800	24-12	0940	Mon	Polish Intel.		FSK 400/960	(AB)
F03c	8800	24-12	0945	Mon	Polish Intel.		FSK 400/960	(AB)
F03c	8800	28-12	0940	Fri	Polish Intel.		FSK 400/960	(AB)
F03c	8800	28-12	0945	Fri	Polish Intel.		FSK 400/960	(AB)
F03c	8800	31-12	0940	Mon	Polish Intel.		FSK 400/960	(AB)
F03c	8800	31-12	0945	Mon	Polish Intel.		FSK 400/960	(AB)
F06	20648	1-12	1500	Sat	Russian diplo/intel. 11166 40133 93467 01001 00049 00000 00000 00000 00000		FSK 200/10000	(AB-RUS/MPJ)
F06	18483	1-12	1510	Sat	Russian diplo/intel. 11166 40133 93467 01001 00049 00000 00000 00000 00000		FSK 200/10000	(AB-RUS/MPJ)
F06	16196	1-12	1520	Sat	Russian diplo/intel. 11166 40133 93467 01001 00049 00000 00000 00000 00000		FSK 200/10000	(AB-RUS/MPJ)
F06	16359	2-12	1100	Sun	Russian diplo/intel. Header: 11166 50046 24783 30065 00489		FSK 200/1000	(AB)

F06	14353	2-12	1110	Sun	Russian diplo/intel. Header: 11166 50046 24783 30065 00489	FSK 200/1000	(AB)
F06	12216	2-12	1120	Sun	Russian diplo/intel. Header: 11166 50046 24783 30065 00489	FSK 200/1000	(AB)
F06	9416	2-12	1530	Sun	Russian diplo/intel. 11166 10053 95174 02001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	7836	2-12	1540	Sun	Russian diplo/intel. 11166 10053 95174 02001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	6875	2-12	1550	Sun	Russian diplo/intel. 11166 10053 95174 02001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	6788	3-12	0500	Mon	Russian diplo/intel. Header: 11166 70059 71345 30020 01749	FSK 200/1000	(AB)
F06	5384	3-12	0510	Mon	Russian diplo/intel. Header: 11166 70059 71345 30020 01749	FSK 200/1000	(AB)
F06	4454	3-12	0520	Mon	Russian diplo/intel. Header: 11166 70059 71345 30020 01749	FSK 200/1000	(AB)
F06	9313	4-12	1650	Tue	Russian diplo/intel. 11166 10053 78963 04001 00049 00000 00000 00000 00000	FSK 200/1000	(MPJ)
F06	7928	4-12	1700	Tue	Russian diplo/intel. 11166 10053 78963 04001 00049 00000 00000 00000 00000	FSK 200/1000	(MPJ)
F06	6783	4-12	1710	Tue	Russian diplo/intel. 11166 10053 78963 04001 00049 00000 00000 00000 00000	FSK 200/1000	(MPJ)
F06	20157	5-12	0600	Wed	Russian diplo/intel. Header: 11166 40122 26378 01006 04589	FSK 200/1000	(AB-J)
F06	18239	5-12	0610	Wed	Russian diplo/intel. Header: 11166 40122 26378 01006 04589	FSK 200/1000	(AB-J)
F06	16204	5-12	0620	Wed	Russian diplo/intel. Header: 11166 40122 26378 01006 04589	FSK 200/1000	(AB-J)
F06	18039	5-12	0800	Wed	Russian diplo/intel. 11166 70048 21569 05012 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	16204	5-12	0810	Wed	Russian diplo/intel. 11166 70048 21569 05012 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	14363	5-12	0820	Wed	Russian diplo/intel. 11166 70048 21569 05012 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	20157	6-12	0600	Thu	Russian diplo/intel. Header: 11166 40122 26378 01006 04589	FSK 200/1000	(AB-J)
F06	18239	6-12	0610	Thu	Russian diplo/intel. Header: 11166 40122 26378 01006 04589	FSK 200/1000	(AB-J)
F06	16204	6-12	0620	Thu	Russian diplo/intel. Header: 11166 40122 26378 01006 04589	FSK 200/1000	(AB-J)
F06	10968	6-12	1330	Thu	Russian diplo/intel. 11166 80214 82465 06028 00049 00000 00000 00000 00000	FSK 200/1000	(AB-QAT/MPJ)
F06	9354	6-12	1340	Thu	Russian diplo/intel. 11166 80214 82465 06028 00049 00000 00000 00000 00000	FSK 200/1000	(AB-QAT/MPJ)
F06	7963	6-12	1350	Thu	Russian diplo/intel. 11166 80214 82465 06028 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	20951	8-12	1000	Sat	Russian diplo/intel. 11166 70004 36987 07001 00049 00000 00000 00000 00000 Started with 500Hz shift. Changed to the correct shift at 1002z	FSK 200/10000	(AB-RUS)
F06	18643	8-12	1010	Sat	Russian diplo/intel. 11166 70004 36987 07001 00049 00000 00000 00000 00000	FSK 200/10000	(AB-RUS)
F06	16314	8-12	1020	Sat	Russian diplo/intel. 11166 70004 36987 07001 00049 00000 00000 00000 00000	FSK 200/10000	(AB-RUS)
F06	16359	8-12	1050	Sat	Russian diplo/intel. Test: 464646464646464646 4646464646464646	FSK 200/1000	(AB)
F06	16359	8-12	1100	Sat	Russian diplo/intel. Header: 11166 50046 73591 07066 02049	FSK 200/1000	(AB/MPJ)
F06	14353	8-12	1110	Sat	Russian diplo/intel. Header: 11166 50046 73591 07066 02049	FSK 200/1000	(AB/MPJ)
F06	12216	8-12	1120	Sat	Russian diplo/intel. Header: 11166 50046 73591 07066 02049	FSK 200/1000	(AB/MPJ)
F06	20648	8-12	1500	Sat	Russian diplo/intel. 11166 40133 79513 08012 00049 00000 00000 00000 00000	FSK 200/10000	(AB/MPJ)
F06	18483	8-12	1510	Sat	Russian diplo/intel. 11166 40133 79513 08012 00049 00000 00000 00000 00000	FSK 200/10000	(AB/MPJ)
F06	16196	8-12	1520	Sat	Russian diplo/intel. 11166 40133 79513 08012 00049 00000 00000 00000 00000	FSK 200/10000	(AB/MPJ)
F06	16359	9-12	1100	Sun	Russian diplo/intel. Header: 11166 50046 73591 07066 02049	FSK 200/1000	(AB/MPJ)
F06	14353	9-12	1110	Sun	Russian diplo/intel. Header: 11166 50046 73591 07066 02049	FSK 200/1000	(AB/MPJ)
F06	12216	9-12	1120	Sun	Russian diplo/intel. Header: 11166 50046 73591 07066 02049	FSK 200/1000	(AB/MPJ)
F06	9416	9-12	1520	Sun	Russian diplo/intel. Test: 464646464646464646 4646464646464646	FSK 200/1000	(AB)
F06	9416	9-12	1530	Sun	Russian diplo/intel. 11166 10053 34691 09001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ/RL-HOL)

F06	7836	9-12	1540	Sun	Russian diplo/intel. 11166 10053 34691 09001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	6875	9-12	1550	Sun	Russian diplo/intel. 11166 10053 34691 09001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	7354	11-12	0030	Tue	Russian diplo/intel. 11166 60070 13579 11075 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	5886	11-12	0040	Tue	Russian diplo/intel. 11166 60070 13579 11075 00049 00000 00000 00000 00000	FSK 200/1000	(AB/RL-HOL)
F06	4839	11-12	0050	Tue	Russian diplo/intel. 11166 60070 13579 11075 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	9313	11-12	1650	Tue	Russian diplo/intel. 11166 10053 17935 11001 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS/MPJ)
F06	7928	11-12	1700	Tue	Russian diplo/intel. 11166 10053 17935 11001 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS/MPJ)
F06	6783	11-12	1710	Tue	Russian diplo/intel. 11166 10053 17935 11001 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS/MPJ)
F06	16321	12-12	0200	Wed	Russian diplo/intel. Header: 11166 60146 00000 12225 02459	FSK 200/1000	(RL-J)
F06	20157	12-12	0600	Wed	Russian diplo/intel. Two messages. Headers: 11166 40122 95417 08007 02759 and 11166 40122 94261 08008 02979	FSK 200/1000	(AB-J)
F06	18239	12-12	0610	Wed	Russian diplo/intel. Two messages. Headers: 11166 40122 95417 08007 02759 and 11166 40122 94261 08008 02979	FSK 200/1000	(AB-J)
F06	16204	12-12	0620	Wed	Russian diplo/intel. Two messages. Headers: 11166 40122 95417 08007 02759 and 11166 40122 94261 08008 02979	FSK 200/1000	(AB-J)
F06	18039	12-12	0800	Wed	Russian diplo/intel. 11166 70048 85276 12059 00049 00000 00000 00000 00000	FSK 200/1000	(AB-AUT)
F06	16204	12-12	0810	Wed	Russian diplo/intel. 11166 70048 85276 12059 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	14363	12-12	0820	Wed	Russian diplo/intel. 11166 70048 85276 12059 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	19851	12-12	0900	Wed	Russian diplo/intel. Header: 11166 00052 48297 11034 01049	FSK 200/1000	(AB-AUT)
F06	17464	12-12	0910	Wed	Russian diplo/intel. Header: 11166 00052 48297 11034 01049	FSK 200/1000	(AB-HNG)
F06	15609	12-12	0920	Wed	Russian diplo/intel. Header: 11166 00052 48297 11034 01049	FSK 200/1000	(Danix)
F06	18046	12-12	1015	Wed	Russian diplo/intel. 11166 10031 78963 12001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	16326	12-12	1025	Wed	Russian diplo/intel. 11166 10031 78963 12001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	14944	12-12	1035	Wed	Russian diplo/intel. 11166 10031 78963 12001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	16321	13-12	0200	Thu	Russian diplo/intel. Header: 11166 60146 00000 13226 02459	FSK 200/1000	(RL-J)
F06	20157	13-12	0600	Thu	Russian diplo/intel. Two messages. Headers: 11166 40122 95417 08007 02759 and 11166 40122 94261 08008 02979	FSK 200/1000	(AB-J)
F06	18239	13-12	0610	Thu	Russian diplo/intel. Two messages. Headers: 11166 40122 95417 08007 02759 and 11166 40122 94261 08008 02979	FSK 200/1000	(AB-J)
F06	16204	13-12	0620	Thu	Russian diplo/intel. Two messages. Headers: 11166 40122 95417 08007 02759 and 11166 40122 94261 08008 02979	FSK 200/1000	(AB-J)
F06	19851	13-12	0900	Thu	Russian diplo/intel. Header: 11166 00052 48297 11034 01049	FSK 200/1000	(AB-RUS)
F06	17464	13-12	0910	Thu	Russian diplo/intel. Header: 11166 00052 48297 11034 01049	FSK 200/1000	(AB)
F06	15609	13-12	0920	Thu	Russian diplo/intel. Header: 11166 00052 48297 11034 01049	FSK 200/1000	(AB)
F06	10968	13-12	1330	Thu	Russian diplo/intel. 11166 80214 82465 13018 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	9354	13-12	1340	Thu	Russian diplo/intel. 11166 80214 82465 13018 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	7963	13-12	1350	Thu	Russian diplo/intel. 11166 80214 82465 13018 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	16359	15-12	1100	Sat	Russian diplo/intel. Header: 11166 50046 73591 07066 02049	FSK 200/1000	(AB/MPJ)
F06	14353	15-12	1110	Sat	Russian diplo/intel. Header: 11166 50046 73591 07066 02049	FSK 200/1000	(AB/MPJ)

F06	12216	15-12	1120	Sat	Russian diplo/intel. Header: 11166 50046 73591 07066 02049	FSK 200/1000	(AB/MPJ)
F06	20648	15-12	1500	Sat	Russian diplo/intel. 11166 40133 17935 15001 00049 00000 00000 00000 00000	FSK 200/10000	(AB/MPJ)
F06	18483	15-12	1510	Sat	Russian diplo/intel. 11166 40133 17935 15001 00049 00000 00000 00000 00000	FSK 200/10000	(AB/MPJ)
F06	16196	15-12	1520	Sat	Russian diplo/intel. 11166 40133 17935 15001 00049 00000 00000 00000 00000	FSK 200/10000	(AB/MPJ)
F06	16359	16-12	1100	Sun	Russian diplo/intel. Header: 11166 50046 73591 07066 02049	FSK 200/1000	(AB/MPJ)
F06	14353	16-12	1110	Sun	Russian diplo/intel. Header: 11166 50046 73591 07066 02049	FSK 200/1000	(AB/MPJ)
F06	12216	16-12	1120	Sun	Russian diplo/intel. Header: 11166 50046 73591 07066 02049	FSK 200/1000	(AB/MPJ)
F06	9416	16-12	1530	Sun	Russian diplo/intel. 11166 10053 78963 16001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	7836	16-12	1540	Sun	Russian diplo/intel. 11166 10053 78963 16001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	6875	16-12	1550	Sun	Russian diplo/intel. 11166 10053 78963 16001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	6788	17-12	0500	Mon	Russian diplo/intel. 11166 70059 79513 17012 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	5384	17-12	0510	Mon	Russian diplo/intel. 11166 70059 79513 17012 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	4454	17-12	0520	Mon	Russian diplo/intel. 11166 70059 79513 17012 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	7354	18-12	0030	Tue	Russian diplo/intel. 11166 60070 37941 18001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	5886	18-12	0040	Tue	Russian diplo/intel. 11166 60070 37941 18001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	4839	18-12	0050	Tue	Russian diplo/intel. 11166 60070 37941 18001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/RL-HOL)
F06	9313	18-12	1650	Tue	Russian diplo/intel. 11166 10053 12478 18001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ-HOL)
F06	7928	18-12	1700	Tue	Russian diplo/intel. 11166 10053 12478 18001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ-HOL/RL-HOL)
F06	6783	18-12	1710	Tue	Russian diplo/intel. 11166 10053 12478 18001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ-HOL)
F06	20157	19-12	0600	Wed	Russian diplo/intel. 11166 40122 15236 19056 00049 00000 00000 00000 00000	FSK 200/1000	(AB-NZL)
F06	18239	19-12	0610	Wed	Russian diplo/intel. 11166 40122 15236 19056 00049 00000 00000 00000 00000	FSK 200/1000	(AB-J)
F06	16204	19-12	0620	Wed	Russian diplo/intel. 11166 40122 15236 19056 00049 00000 00000 00000 00000	FSK 200/1000	(AB-NZL)
F06	18039	19-12	0800	Wed	Russian diplo/intel. 11166 70048 85239 19059 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	16204	19-12	0810	Wed	Russian diplo/intel. 11166 70048 85239 19059 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	14363	19-12	0820	Wed	Russian diplo/intel. 11166 70048 85239 19059 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	16321	20-12	0200	Thu	Russian diplo/intel. Header: 11166 60146 00000 20231 02459	FSK 200/1000	(RL-J)
F06	10968	20-12	1330	Thu	Russian diplo/intel. 11166 80214 16845 20066 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	9354	20-12	1340	Thu	Russian diplo/intel. 11166 80214 16845 20066 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	7963	20-12	1350	Thu	Russian diplo/intel. 11166 80214 16845 20066 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	20951	22-12	1000	Sat	Russian diplo/intel. 11166 70004 85236 22001 00049 00000 00000 00000 00000	FSK 200/10000	(AB-RUS)
F06	18643	22-12	1010	Sat	Russian diplo/intel. 11166 70004 85236 22001 00049 00000 00000 00000 00000	FSK 200/10000	(AB-RUS)
F06	16314	22-12	1020	Sat	Russian diplo/intel. 11166 70004 85236 22001 00049 00000 00000 00000 00000	FSK 200/10000	(AB)
F06	16359	22-12	1100	Sat	Russian diplo/intel. Header: 11166 50046 74381 21067 01389	FSK 200/1000	(AB/MPJ)
F06	14353	22-12	1110	Sat	Russian diplo/intel. Header: 11166 50046 74381 21067 01389	FSK 200/1000	(AB/MPJ)
F06	12216	22-12	1120	Sat	Russian diplo/intel. Header: 11166 50046 74381 21067 01389	FSK 200/1000	(AB/MPJ)
F06	20648	22-12	1500	Sat	Russian diplo/intel. 11166 40133 74123 22001 00049 00000 00000 00000 00000	FSK 200/10000	(AB/MPJ)
F06	18483	22-12	1510	Sat	Russian diplo/intel. 11166 40133 74123 22001 00049 00000 00000 00000 00000	FSK 200/10000	(AB/MPJ)
F06	16196	22-12	1520	Sat	Russian diplo/intel. 11166 40133 74123 22001 00049 00000 00000 00000 00000	FSK 200/10000	(AB/MPJ)
F06	16359	23-12	1100	Sun	Russian diplo/intel. Header: 11166 50046 74381 21067 01389	FSK 200/1000	(AB/MPJ)

F06	14353	23-12	1110	Sun	Russian diplo/intel. Header: 11166 50046 74381 21067 01389	FSK 200/1000	(AB/MPJ)
F06	12216	23-12	1120	Sun	Russian diplo/intel. Header: 11166 50046 74381 21067 01389	FSK 200/1000	(AB/MPJ)
F06	9416	23-12	1530	Sun	Russian diplo/intel. 11166 10053 17935 23001 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS/MPJ)
F06	7836	23-12	1540	Sun	Russian diplo/intel. 11166 10053 17935 23001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	6875	23-12	1550	Sun	Russian diplo/intel. 11166 10053 17935 23001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	7354	25-12	0030	Tue	Russian diplo/intel. 11166 60070 79513 25012 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	5886	25-12	0040	Tue	Russian diplo/intel. 11166 60070 79513 25012 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	4839	25-12	0050	Tue	Russian diplo/intel. 11166 60070 79513 25012 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	20157	26-12	0600	Wed	Russian diplo/intel. Header: 11166 40122 63742 22009 03279	FSK 200/1000	(AB-AUS)
F06	18239	26-12	0610	Wed	Russian diplo/intel. Header: 11166 40122 63742 22009 03279	FSK 200/1000	(AB-J)
F06	16204	26-12	0620	Wed	Russian diplo/intel. Header: 11166 40122 63742 22009 03279	FSK 200/1000	(AB-J)
F06	18039	26-12	0800	Wed	Russian diplo/intel. 11166 70048 56783 26081 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	16204	26-12	0810	Wed	Russian diplo/intel. 11166 70048 56783 26081 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	14363	26-12	0820	Wed	Russian diplo/intel. 11166 70048 56783 26081 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	19851	26-12	0900	Wed	Russian diplo/intel. Header: 11166 00052 37195 26035 01369	FSK 200/1000	(AB)
F06	17464	26-12	0910	Wed	Russian diplo/intel. Header: 11166 00052 37195 26035 01369	FSK 200/1000	(AB)
F06	15609	26-12	0920	Wed	Russian diplo/intel. Header: 11166 00052 37195 26035 01369	FSK 200/1000	(AB)
F06	18046	26-12	1015	Wed	Russian diplo/intel. Wrong shift	FSK 200/500	(AB)
F06	16326	26-12	1025	Wed	Russian diplo/intel. Wrong shift	FSK 200/500	(AB)
F06	14944	26-12	1035	Wed	Russian diplo/intel. Wrong shift	FSK 200/500	(AB)
F06	19851	27-12	0900	Thu	Russian diplo/intel. Header: 11166 00052 37195 26035 01369	FSK 200/1000	(AB)
F06	17464	27-12	0910	Thu	Russian diplo/intel. Header: 11166 00052 37195 26035 01369	FSK 200/1000	(AB)
F06	15609	27-12	0920	Thu	Russian diplo/intel. Header: 11166 00052 37195 26035 01369	FSK 200/1000	(AB)
F06	10968	27-12	1330	Thu	Russian diplo/intel. 11166 80214 82465 27057 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	9354	27-12	1340	Thu	Russian diplo/intel. 11166 80214 82465 27057 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	7963	27-12	1350	Thu	Russian diplo/intel. 11166 80214 82465 27057 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	16359	29-12	1100	Sat	Russian diplo/intel. Header: 11166 50046 37820 29068 00769	FSK 200/1000	(AB/Danix)
F06	14353	29-12	1110	Sat	Russian diplo/intel. Header: 11166 50046 37820 29068 00769	FSK 200/1000	(AB/Danix)
F06	12216	29-12	1120	Sat	Russian diplo/intel. Header: 11166 50046 37820 29068 00769	FSK 200/1000	(AB/Danix)
F06	20648	29-12	1500	Sat	Russian diplo/intel. 11166 40133 56248 29001 00049 00000 00000 00000 00000	FSK 200/10000	(Danix)
F06	18483	29-12	1510	Sat	Russian diplo/intel. 11166 40133 56248 29001 00049 00000 00000 00000 00000	FSK 200/10000	(Danix)
F06	16196	29-12	1520	Sat	Russian diplo/intel. 11166 40133 56248 29001 00049 00000 00000 00000 00000	FSK 200/10000	(Danix)
F06	16359	30-12	1100	Sun	Russian diplo/intel. Header: 11166 50046 37820 29068 00769	FSK 200/1000	(AB)
F06	14353	30-12	1110	Sun	Russian diplo/intel. Header: 11166 50046 37820 29068 00769	FSK 200/1000	(AB)
F06	12216	30-12	1120	Sun	Russian diplo/intel. Header: 11166 50046 37820 29068 00769	FSK 200/1000	(AB)
F06	9416	30-12	1530	Sun	Russian diplo/intel. 11166 10053 35491 30065 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	7836	30-12	1540	Sun	Russian diplo/intel. 11166 10053 35491 30065 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	6875	30-12	1550	Sun	Russian diplo/intel. 11166 10053 35491 30065 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F11	9370	3-12	0845	Mon	0353 0353 0353 0353 0353 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/620	(AB)

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F11	9370	3-12	0850	Mon	0353 0353 0353 0353 0353 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/620	(AB)															
F11	9370	5-12	0845	Wed	0353 0353 0353 0353 0353 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/620	(AB)															
F11	9370	5-12	0850	Wed	0353 0353 0353 0353 0353 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/620	(AB)															
F11	9370	10-12	0845	Mon	0353 08964 24716 00512 00000 00000 08193 00000 00064 ... 16384 00768 00000 00000 03072 00000 00000 00000 Unusual binary message	FSK 100/620	(AB)															
F11	9370	10-12	0850	Mon	0353 08964 24716 00512 00000 00000 08193 00000 00064 ... 16384 00768 00000 00000 03072 00000 00000 00000 Unusual binary message	FSK 100/620	(AB)															
G06	5320	3-12	0800	Mon	329 329 329 00000	USB	(AB)															
G06	4485	3-12	1750	Mon	111 111	USB	(AB)															
G06	4485	3-12	1800	Mon	938 938 938 00000	USB	(AB)															
G06	4912	5-12	1153	Wed	Windows sounds	USB	(AB-POL)															
G06	4912	5-12	1200	Wed	938 938 938 00000	USB	(AB-POL/MPJ)															
G06	4912	5-12	1206	Wed	111 111 111 00000	USB	(AB-POL)															
G06	4042	5-12	1241	Wed	111 1	USB	(AB-POL)															
G06	4042	5-12	1250	Wed	111 111 11	USB	(AB-POL)															
G06	4042	5-12	1300	Wed	938 938 938 00000	USB	(AB-POL)															
G06	4460	6-12	1253	Thu	0 111 111 111	USB	(AB-POL)															
G06	4460	6-12	1259	Thu	329 329 329 00000	USB	(AB-POL/MPJ)															
G06	3750	10-12	1653	Mon	111 111	USB	(AB)															
G06	3750	10-12	1659	Mon	938 938 938 00000	USB	(AB/BW3-S/RL/MPJ)															
G06	4490	10-12	1759	Mon	938 938 938 00000	USB	(AB/MPJ/RL)															
G06	4912	12-12	1200	Wed	938 938 938 00000	USB	(AB-POL/MPJ-AUT/HFD)															
G06	4912	12-12	1209	Wed	111 111 111 00000	USB	(AB-POL)															
G06	4042	12-12	1252	Wed	111 111	USB	(AB-POL)															
G06	4042	12-12	1300	Wed	938 938 938 00000	USB	(AB-POL/HFD)															
G06	4519	13-12	1816	Thu	Windows error sound	USB	(AB)															
G06	4519	13-12	1818	Thu	111	USB	(AB)															
G06	4519	13-12	1829	Thu	271 281 49 69512 64538 79512 ... 52535 48523 42597 281 49 00000	USB	(AB/MPJ/HFD)															
G06	4792	14-12	1930	Fri	436 404 41 35984 52790 78205 ... 07016 10184 02019 404 41 00000	USB	(AB/MPJ/BW3-GRC)															
G06	5320	17-12	0800	Mon	329 329 329 00000	USB	(AB)															
G06	4460	20-12	1300	Thu	329 329 329 00000	USB	(AB-POL/MPJ)															
G06	4519	27-12	1830	Thu	271 129 43 45278 70761 25050 ... 47014 14765 21452 129 43 00000	USB	(AB)															
G06	4792	28-12	1930	Fri	436 129 43 45278 70761 25050 ... 47014 14765 21452 129 43 00000	USB	(AB/MPJ)															
HM01	11435	1-12	1600	Sat	86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov)	AM/RDFT	(RR2)															

HM01	16180	1-12	2100	Sat	86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov)	AM/RDFT	(RL)
HM01	17480	1-12	2200	Sat	86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov)	AM/RDFT	(RL)
HM01	11435	2-12	1600	Sun	86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov)	AM/RDFT	(RR2)
HM01	11435	3-12	1601	Mon	Radio Habana Cuba for a moment, then 86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov)	AM/RDFT	(DE/RR2)
HM01	11435	4-12	1600	Tue	86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov)	AM/RDFT	(RR2)
HM01	11435	5-12	1600	Wed	86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov)	AM/RDFT	(RR2)
HM01	11435	6-12	1600	Thu	86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov)	AM/RDFT	(RR2)
HM01	11435	7-12	1600	Fri	86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov)	AM/RDFT	(RR2)
HM01	11530	7-12	1700	Fri	86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov)	AM/RDFT	(AB-USA)
HM01	11635	7-12	1800	Fri	86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov)	AM/RDFT	(RL-USA)
HM01	11435	8-12	1601	Sat	86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov)	AM/RDFT	(RR2)
HM01	9330	9-12	0700	Sun	86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov)	AM/RDFT	(AB)
HM01	9065	9-12	0800	Sun	86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov)	AM/RDFT	(AB)
HM01	9240	9-12	0900	Sun	86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov)	AM/RDFT	(AB)
HM01	9155	9-12	1000	Sun	86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov)	AM/RDFT	(AB)
HM01	11435	9-12	1601	Sun	86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov)	AM/RDFT	(RR2)
HM01	8136	9-12	2257	Sun	HM01 replacing M08a. 71875 36551 86325 55633 85266 35553.	LSB/RDFT	(RL-USA)
HM01	10860	10-12	0506	Mon	86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov)	AM/RDFT	(AB-USA)
HM01	11435	10-12	1601	Mon	86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov)	AM/RDFT	(RR2)
HM01	11635	10-12	2100	Mon	86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov)	AM/RDFT	(RL-USA)
HM01	8010	10-12	2315	Mon	HM01 mixing with M08a	AM/RDFT	(Sha)
HM01	11435	11-12	1600	Tue	86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov)	AM/RDFT	(RR2)
HM01	8136	11-12	2300	Tue	HM01 mixing with M08a. Groups and files sent: 71875 74857187.txt 36551 45173655.txt 86325 86078632.txt 55633 86285563.txt 85266 50758526.f1c 35553 85153555.txt	LSB	(MKD2)
HM01	11435	12-12	1600	Wed	86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov)	AM/RDFT	(RR2)
HM01	11635	12-12	2100	Wed	86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov)	AM/RDFT	(BW3)
HM01	11462	13-12	0900	Thu	i.p. 86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov)	AM/RDFT	(AB-USA)
HM01	12180	13-12	0959	Thu	86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov)	AM/RDFT	(AB-USA)
HM01	11435	13-12	1730	Thu	86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov)	AM/RDFT	(AB-USA)
HM01	11635	13-12	1800	Thu	86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov)	AM/RDFT	(RR2)
HM01	9065	14-12	0759	Fri	86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov)	AM/RDFT	(AB)
HM01	9155	14-12	0958	Fri	86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov)	AM/RDFT	(AB)
HM01	11435	14-12	1600	Fri	86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov)	AM/RDFT	(RR2)
HM01	11530	14-12	1700	Fri	86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov)	AM/RDFT	(AB-USA)
HM01	11635	14-12	1800	Fri	86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov)	AM/RDFT	(AB-USA/RL-USA)
HM01	10715	14-12	2230	Fri	86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov)	AM/RDFT	(CtY/SHA)
HM01	8136	14-12	2256	Fri	HM01 mixing with M08a 71875 36551 86325 55633 85266 35553	LSB/RDFT	(RL-USA)
HM01	11435	15-12	1600	Sat	86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov)	AM/RDFT	(RR2)

HM01	11435	16-12	1600	Sun	86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov)	AM/RDFT	(RR2)
HM01	11435	17-12	1600	Mon	Radio Habana Cuba. ID and interval signal, then into 86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov)	AM/RDFT	(RR2)
HM01	11435	18-12	1600	Tue	86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov)	AM/RDFT	(RR2)
HM01	11435	19-12	1600	Wed	86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov)	AM/RDFT	(RR2)
HM01	11530	19-12	1700	Wed	86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov)	AM/RDFT	(BW3)
HM01	11530	20-12	1658	Thu	86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov)	AM/RDFT	(BW3)
HM01	11635	20-12	1800	Thu	86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov)	AM/RDFT	(RR2/BW3)
HM01	11530	21-12	1700	Fri	86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov)	AM/RDFT	(RR2)
HM01	11435	22-12	1600	Sat	86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov)	AM/RDFT	(RR2)
HM01	11635	22-12	1758	Sat	86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov)	AM/RDFT	(BW3)
HM01	9330	23-12	0700	Sun	86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov)	AM/RDFT	(AB)
HM01	11435	23-12	1600	Sun	86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov)	AM/RDFT	(RR2)
HM01	11435	24-12	1600	Mon	86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov)	AM/RDFT	(RR2)
HM01	11435	25-12	1600	Tue	86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov)	AM/RDFT	(RR2)
HM01	9330	26-12	0700	Wed	86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov)	AM/RDFT	(AB)
HM01	11435	26-12	1600	Wed	86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov)	AM/RDFT	(RR2)
HM01	11635	27-12	1757	Thu	86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov)	AM/RDFT	(RR2)
HM01	11530	28-12	1700	Fri	86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov)	AM/RDFT	(RR2)
HM01	11435	29-12	1600	Fri	86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov)	AM/RDFT	(RR2)
HM01	11435	30-12	1600	Fri	86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov)	AM/RDFT	(RR2)
HM01	10715	30-12	2200	Sun	86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov)	AM/RDFT	(Dan)
HM01	9330	31-12	0700	Mon	86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov)	AM/RDFT	(AB)
HM01	9065	31-12	0800	Mon	86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov)	AM/RDFT	(AB)
HM01	9065	31-12	0900	Mon	86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov) Should be on 9240 kHz	AM/RDFT	(AB)
HM01	9155	31-12	1000	Mon	86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov)	AM/RDFT	(AB)
HM01	11435	31-12	1600	Fri	86423 20048 70305 81001 03627 64881(Repeating the groups of 3 Nov)	AM/RDFT	(RR2)
M01	5810	1-12	1500	Sat	197 178 178 30 30 = = 03862 95574 78285 ... 13039 26323 31532 = = 178 178 30 30 000	CW	(AB/MPJ)
M01	5465	2-12	0700	Sun	197 345 345 30 30 = = 47557 23838 14564 ... 13570 86054 72868 = = 345 345 30 30 000	CW	(AB)
M01	5320	4-12	1800	Tue	197 649 649 = 30 30 56763 43519 26319 ... 12306 64838 83882 = = 649 649 = 30 30 000	CW	(MPJ)
M01	4490	4-12	2000	Tue	197 425 425 = 30 30 = = 93241 82626 90109 ... 81860 15524 23148 = 425 425 = 30 30 000	CW	(AB/MPJ)
M01	5320	6-12	1800	Thu	197 117 117 30 30 = = 41590 61655 88270 ... 19243 50342 ... (QRN) ____ 1 = = 117 117 30 30 000	CW	(MPJ)
M01	4490	6-12	2000	Thu	197 535 535 30 30 = = message	CW	(AB)
M01	5810	8-12	1500	Sat	197 27994 17802 93734 ... 50060 05610 81540 = = 511 511 = 30 30 0000. No preamble & other errors	CW	(MPJ)
M01	5465	9-12	0658	Sun	Early start 197 701 701 30 30 = = 78034 27167 42745 ... 98273 54226 63647 = = 701 701 30 30 000	CW	(AB)

M01	5320	11-12	1800	Tue	VVV VVV VVV 197 972 972 30 30 = = = = 24303 57706 01010 ... 04529 48701 82286 = = = = 972 972 30 30 000	CW	(AB/MPJ)
M01	4490	11-12	2000	Tue	197 931 931 30 30 = = = = 76939 33437 15219 ... 85473 17591 89504 = = = = 931 931 30 30 000	CW	(AB/MPJ)
M01	5320	13-12	1800	Thu	197 468 468 30 30 = = 72546 78157 87576 ... 11040 04778 48823 = = 468 468 30 30 000	CW	(AB-CZE/MPJ)
M01	4490	13-12	2000	Thu	197 823 823 30 30 = = 53681 35171 80835 ... 40024 31246 67555 = = 823 823 30 30 000	CW	(AB/MPJ)
M01	5810	15-12	1500	Sat	197 781 781 30 30 = = = = 38... 10949 69393 ... 374 = = = = 781 781 30 30 000	CW	(MPJ)
M01	5320	18-12	1800	Tue	197 793 793 30 30 = = 93661 42253 77197 ... 87350 = = 197 197 30 30 000	CW	(MPJ)
M01	4490	18-12	2000	Tue	197 234 234 30 30 = = 64115 37491 98273 ... 19177 92077 63424 = = 234 234 30 30 000	CW	(MPJ)
M01	5320	20-12	1800	Thu	197 177 177 30 30 = = 34836 02991 70435 ... 59577? 50759? 66154? = = 177 177 30 30 000	CW	(MPJ-CZE)
M01	4490	20-12	2000	Thu	197 88..808 808 30 30 = = 83805 90363 ... 64579 ... 51582 46454 79234 = = 808 808 30 30 000	CW	(MPJ)
M01	5810	22-12	1500	Sat	197 411 411 30 30 = = 25673 01021 20351 ... 96205 02619 42270 = = 411 411 30 30 000	CW	(MPJ)
M01	5465	23-12	0700	Sun	197 683 863 30 30 = = = = 09485 51712 32367 ... 79127 84274 96342 = = = = 386 386 30 30 000	CW	(AB)
M01	5810	29-12	1500	Sat	197 801 801 = 30 30 = = 06449 35743 48580 ... 82749 82749 82749 (!) 66711 63472 = = 801 = 30 30 000	CW	(MPJ)
M01b	2435	3-12	1910	Mon	853 331 331 32 32 = = 83883 47818 69676 ... 07641 03112 07087 = = 331 331 32 32 000 //3520 kHz	MCW	(MPJ-CZE/HFD-POL)
M01b	3520	3-12	1910	Mon	853 331 331 32 32 = = 83883 47818 69676 ... 07641 03112 07087 = = 331 331 32 32 000 //2435 kHz	MCW	(MPJ-CZE/HFD-POL)
M01b	2425	3-12	2015	Mon	375 331 331 32 32 = = 83883 47818 69676 ... 07641 03112 07087 = = 331 331 32 32 000 //3205 kHz	MCW	(MPJ-CZE/HFD-POL)
M01b	3205	3-12	2015	Mon	375 331 331 32 32 = = 83883 47818 69676 ... 07641 03112 07087 = = 331 331 32 32 000 //2425 kHz	MCW	(MPJ-CZE/HFD-POL)
M01b	2655	7-12	2002	Fri	866 331 331 32 32 = = 83883 47818 69676 ... 07641 03112 07087 = = 331 331 32 32 000 //3195 kHz	MCW	(MPJ-HOL)
M01b	3195	7-12	2002	Fri	866 331 331 32 32 = = 83883 47818 69676 ... 07641 03112 07087 = = 331 331 32 32 000 //2655 kHz	MCW	(MPJ-HOL)
M01b	2435	10-12	1910	Mon	853 331 331 32 32 = = 83883 47818 69676 ... 07641 03112 07087 = = 331 331 32 32 000 //3520 kHz	MCW	(MPJ-HOL)
M01b	3520	10-12	1910	Mon	853 331 331 32 32 = = 83883 47818 69676 ... 07641 03112 07087 = = 331 331 32 32 000 //2435 kHz	MCW	(MPJ-HOL)
M01b	3205	10-12	2015	Mon	375 331 331 32 32 = = 83883 47818 69676 ... 07641 03112 07087 = = 331 331 32 32 000	MCW	(MPJ-HOL)
M01b	2470	13-12	1932	Thu	910 331 331 32 32 = = 83883 47818 69676 ... 07641 03112 07087 = = 331 331 32 32 000 //3545 kHz	MCW	(MPJ-CZE)
M01b	3545	13-12	1932	Thu	910 331 331 32 32 = = 83883 47818 69676 ... 07641 03112 07087 = = 331 331 32 32 000 //2470 kHz	MCW	(MPJ-CZE/HFD)
M01b	2485	13-12	2042	Thu	382 331 331 32 32 = = 83883 47818 69676 ... 07641 03112 07087 = = 331 331 32 32 000 //3160 kHz	MCW	(MPJ-CZE)

M01b	3160	13-12	2042	Thu	382 331 331 32 32 == 83883 47818 69676 ... 07641 03112 07087 == 331 331 32 32 000 //2485 kHz	MCW	(MPJ-CZE/HFD)
M01b	2655	14-12	2002	Fri	566 331 331 32 32 == 83883 47818 69676 ... 07641 03112 07087 == 331 331 32 32 000 //3195 kHz	MCW	(MPJ-HOL)
M01b	3195	14-12	2002	Fri	566 331 331 32 32 == 83883 47818 69676 ... 07641 03112 07087 == 331 331 32 32 000 //2655 kHz	MCW	(MPJ-HOL)
M01b	2435	17-12	1910	Mon	853 331 331 32 32 == 83883 47818 69676 ... 07641 03112 07087 == 331 331 32 32 000 //3520 kHz	MCW	(MPJ-HOL)
M01b	3520	17-12	1910	Mon	853 331 331 32 32 == 83883 47818 69676 ... 07641 03112 07087 == 331 331 32 32 000 //2435 kHz	MCW	(MPJ-HOL)
M01b	2425	17-12	2015	Mon	375 331 331 32 32 == 83883 47818 69676 ... 07641 03112 07087 == 331 331 32 32 000 //3206 kHz	MCW	(MPJ-HOL)
M01b	3205	17-12	2015	Mon	375 331 331 32 32 == 83883 47818 69676 ... 07641 03112 07087 == 331 331 32 32 000 //2525 kHz	MCW	(MPJ-HOL)
M01b	3545	20-12	1932	Thu	Too weak to copy	MCW	(MPJ)
M01b	2655	21-12	2002	Fri	566 331 331 32 32 == 83883 47818 69676 ... 07641 03112 07087 == 331 331 32 32 000 //3195 kHz	MCW	(MPJ-HOL)
M01b	3195	21-12	2002	Fri	566 331 331 32 32 == 83883 47818 69676 ... 07641 03112 07087 == 331 331 32 32 000 //2655 kHz	MCW	(MPJ-HOL)
M01b	2655	28-12	2003	Fri	566 331 331 32 32 == 83883 47818 69676 ... 07641 03112 07087 == 331 331 32 32 000 //3195 kHz	MCW	(MPJ-HOL)
M01b	3195	28-12	2003	Fri	566 331 331 32 32 == 83883 47818 69676 ... 07641 03112 07087 == 331 331 32 32 000 //2655 kHz	MCW	(MPJ-HOL)
M01b	2435	31-12	1910	Mon	853 331 331 32 32 == 83883 47818 69676 ... 07641 03112 07087 == 331 331 32 32 000 //3520 kHz	MCW	(MPJ-I)
M01b	3520	31-12	1910	Mon	853 331 331 32 32 == 83883 47818 69676 ... 07641 03112 07087 == 331 331 32 32 000 //2435 kHz	MCW	(MPJ-I)
M01b	3205	31-12	2015	Mon	Carrier only	MCW	(MPJ)
M08a	8096	3-12	1401	Mon	5LGs	CW	(SDX)
M08a	8096	4-12	1356	Tue	5LGs	CW	(SDX)
M08a	8096	6-12	1354	Thu	5LGs	CW	(SDX)
M08a	8136	7-12	2254	Fri	5 letter groups	CW	(CM2)
M08a	8096	10-12	1354	Mon	5LG messages	CW	(SDX)
M08a	8010	10-12	2315	Mon	M08a mixing with HM01	CW	(Sha)
M08a	8096	11-12	1356	Tue	5LG messages	CW	(SDX)
M08a	8136	11-12	2300	Tue	M08a mixing with HM01	CW	(MKD2)
M08a	8096	12-12	1356	Wed	5LG messages	CW	(SDX)
M08a	8096	13-12	1400	Thu	3 messages. Started halfway the 1st message.	CW	(AB-USA)
M08a	8096	14-12	1354	Fri	IITTA GTDNN TDRWA followed by 3 messages	CW	(AB-USA/MDK2/SDX)

M08a	8136	14-12	2256	Fri	M08a mixing with HM01	CW	(RL-USA)
M08a	8096	17-12	1357	Mon	3 messages. No preamble, but right into the first message = = = RUDGU ANDGG AAATD WWDTD NANAI RNWWU ...	CW	(AB-USA)
M08a	8096	18-12	1354	Tue	5LG messages	CW	(SDX)
M08a	8096	18-12	1418	Tue	i.p. RIDAN RIDAN RIDAN RIDAN RIDAN = = = DIWGG NTWGG UUAWW ... WRUGD NADNA IDIRI + + + SK	CW	(AB-USA)
M08a	8136	18-12	2300	Tue	i.p. TANNU IIUTI WDGNG ... IDUGR TUTAD GWDTN + + +	CW	(RL-J)
M08a	8096	19-12	1357	Wed	TDRAN AUUUN NIIIN followed by three messages	CW	(AB-USA)
M08a	8096	20-12	1355	Thu	GGUDN TNIWN AWAGA followed by three messages	CW	(AB-USA)
M08a	8096	21-12	1400	Fri	3 messages. Starts at 1400z halfway its first message.	CW	(AB-USA)
M08a	8096	24-12	1357	Mon	5LG messages	CW	(SDX)
M08a	8096	25-12	1357	Tue	5LG messages	CW	(SDX)
M08a	8096	26-12	1354	Wed	AGUGA DNGNA UWNUN AGUGA DNGNA UWNUN AGUGA DNGNA UWNUN followed by 3 messages	CW	(AB-USA/SDX)
M08a	8096	27-12	1357	Thu	5LG messages	CW	(SDX)
M08a	8096	28-12	1355	Fri	IRWRN GTGGA TUTAN IRWRN GTGGA TUTAN IRWRN GTGGA TUTAN followed by 3 messages	CW	(AB-USA)
M08a	8096	31-12	1401	Mon	Started while already in progress. Almost unreadable due to a very noisy transmitter	CW	(AB)
M12	5784	1-12	0600	Sat	751 751 751 000	CW	(AB)
M12	7584	1-12	0620	Sat	751 751 751 000	CW	(AB)
M12	14769	2-12	1010	Sun	721 721 721 000	CW	(AB)
M12	16269	2-12	1030	Sun	721 721 721 000	CW	(AB)
M12	13371	3-12	1400	Mon	352 352 352 1 413 153 413 153 99195 82535 27638 ... 21071 86790 06242 000 000	CW	(AB/MPJ/HFD)
M12	11571	3-12	1420	Mon	352 352 352 1 413 153 413 153 99195 82535 27638 ... 21071 86790 06242 000 000	CW	(AB/MPJ/HFD)
M12	10271	3-12	1440	Mon	352 352 352 1 413 153 413 153 99195 82535 27638 ... 21071 86790 06242 000 000	CW	(AB/MPJ/HFD)
M12	8047	3-12	1800	Mon	463 463 463 1 6421 93 6421 93 04480 80967 02694 .. 61996 36897 38374 77456 000 000	CW	(AB/MPJ)
M12	6802	3-12	1820	Mon	463 463 463 1 6421 93 6421 93 04480 80967 02694 .. 61996 36897 38374 77456 000 000	CW	(AB/MPJ)
M12	5788	3-12	1840	Mon	463 463 463 1 6421 93 6421 93 04480 80967 02694 .. 61996 36897 38374 77456 000 000	CW	(AB/MPJ)
M12	10343	3-12	2000	Mon	124 1 2542 104 50387 89583 10849 ... 41234 56223 35977 000 000	CW	(MPJ)
M12	9264	3-12	2020	Mon	124 1 2542 104 50387 89583 10849 ... 41234 56223 35977 000 000	CW	(MPJ)
M12	12217	5-12	1310	Wed	253 1	CW	(HFD)
M12	11517	5-12	1330	Wed	253 1	CW	(HFD)
M12	10317	5-12	1350	Wed	253 1	CW	(HFD)
M12	13371	5-12	1400	Wed	352 352 352 1 413 153 413 153 99195 82535 27638 ... 21071 86790 06242 000 000	CW	(AB)
M12	11571	5-12	1420	Wed	352 352 352 1 413 153 413 153 99195 82535 27638 ... 21071 86790 06242 000 000	CW	(AB)
M12	10271	5-12	1440	Wed	352 352 352 1 413 153 413 153 99195 82535 27638 ... 21071 86790 06242 000 000	CW	(AB)
M12	6908	5-12	2050	Wed	985 985 985 000	CW	(AB/HFD)
M12	5808	5-12	2110	Wed	985 985 985 000	CW	(AB/HFD)
M12	5312	5-12	2200	Wed	350 1	CW	(HFD)
M12	4512	5-12	2220	Wed	350 1	CW	(HFD)

M12	4012	5-12	2240	Wed	350 1	CW	(HFD)
M12	14769	6-12	1010	Thu	721 721 721 000	CW	(AB/HFD)
M12	16269	6-12	1030	Thu	721 721 721 000	CW	(AB/HFD)
M12	10343	6-12	1900	Thu	124 124 124 1 4425 120 4425 120 01600 68635 06035 ... 87245 14338 64567 000 000	CW	(AB/MPJ)
M12	9264	6-12	1920	Thu	124 124 124 1 4425 120 4425 120 01600 68635 06035 ... 87245 14338 64567 000 000	CW	(AB/MPJ)
M12	8116	6-12	1940	Thu	124 124 124 1 4425 120 4425 120 01600 68635 06035 ... 87245 14338 64567 000 000	CW	(AB/MPJ)
M12	12217	7-12	1310	Fri	253 253 253 1 7366 77 7366 77 96033 73886 72586 ... 78212 53502 85319 000 000	CW	(AB)
M12	11517	7-12	1330	Fri	253 253 253 1 7366 77 7366 77 96033 73886 72586 ... 78212 53502 85319 000 000	CW	(AB)
M12	10317	7-12	1350	Fri	253 253 253 1 7366 77 7366 77 96033 73886 72586 ... 78212 53502 85319 000 000	CW	(AB)
M12	6908	7-12	2050	Fri	985 985 985 000	CW	(AB/RL-HOL)
M12	5808	7-12	2110	Fri	985 985 985 000	CW	(AB/RL-HOL)
M12	5832	7-12	2200	Fri	887 887 887 1 2531 105 2531 105 46219 87717 42627 ... 56123 28578 94116 000 000	CW	(AB)
M12	6832	7-12	2220	Fri	887 887 887 1 2531 105 2531 105 46219 87717 42627 ... 56123 28578 94116 000 000	CW	(AB)
M12	7732	7-12	2240	Fri	887 887 887 1 2531 105 2531 105 46219 87717 42627 ... 56123 28578 94116 000 000	CW	(AB)
M12	5784	8-12	0600	Sat	751 751 751 1 8305 91 8305 91 79326 47574 72641 ... 09831 98281 09161 000 000	CW	(AB)
M12	7584	8-12	0620	Sat	751 751 751 1 8305 91 8305 91 79326 47574 72641 ... 09831 98281 09161 000 000	CW	(AB)
M12	9184	8-12	0640	Sat	751 751 751 1 8305 91 8305 91 79326 47574 72641 ... 09831 98281 09161 000 000	CW	(AB)
M12	7732	8-12	2140	Sat	887 887 887 1 2531 105 2531 105 46219 87717 42627 ... 56123 28578 94116 000 000	CW	(AB)
M12	5832	8-12	2200	Sat	887 887 887 1 2531 105 2531 105 46219 87717 42627 ... 56123 28578 94116 000 000	CW	(AB)
M12	6832	8-12	2220	Sat	887 887 887 1 2531 105 2531 105 46219 87717 42627 ... 56123 28578 94116 000 000	CW	(AB)
M12	14769	9-12	1010	Sun	721 721 721 000	CW	(AB)
M12	16269	9-12	1030	Sun	721 721 721 000	CW	(AB)
M12	13371	10-12	1400	Mon	352 352 352 000	CW	(AB/MPJ)
M12	11571	10-12	1420	Mon	352 352 352 000	CW	(AB/MPJ)
M12	8047	10-12	1800	Mon	463 463 463 1 585 111 585 111 64800 67584 80269 ... 12896 28996 21119 000 000	CW	(AB/MPJ)
M12	6802	10-12	1820	Mon	463 463 463 1 585 111 585 111 64800 67584 80269 ... 12896 28996 21119 000 000	CW	(AB/MPJ)
M12	5788	10-12	1840	Mon	463 463 463 1 585 111 585 111 64800 67584 80269 ... 12896 28996 21119 000 000	CW	(AB/RL/MPJ)
M12	10343	10-12	2000	Mon	124 1 2542 104 50387 89583 10849 ... 41234 56223 35977 000 000	CW	(AB/MPJ)
M12	9264	10-12	2020	Mon	124 1 2542 104 50387 89583 10849 ... 41234 56223 35977 000 000	CW	(AB/MPJ)
M12	8116	10-12	2040	Mon	124 1 2542 104 50387 89583 10849 ... 41234 56223 35977 000 000	CW	(AB)
M12	6937	10-12	2210	Mon	975 975 975 000	CW	(AB)
M12	5737	10-12	2230	Mon	975 975 975 000	CW	(AB/RL)
M12	12217	12-12	1310	Wed	253 253 253 000	CW	(AB/MPJ)
M12	11517	12-12	1330	Wed	253 253 253 000	CW	(AB/MPJ)
M12	13371	12-12	1400	Wed	352 352 352 000	CW	(AB)
M12	11571	12-12	1420	Wed	352 352 352 000	CW	(AB)
M12	6908	12-12	2050	Wed	985 985 985 000	CW	(AB/LA6LU)
M12	5808	12-12	2110	Wed	985 985 985 000	CW	(AB/LA6LU)
M12	5312	12-12	2200	Wed	350 350 350 000	CW	(AB/LA6LU)

M12	4512	12-12	2220	Wed	350 350 350 000	CW	(AB/LA6LU)
M12	14769	13-12	1010	Thu	721 721 721 1 570 115 570 115 94298 79569 41448 ... 86043 18543 82580 000 000	CW	(AB)
M12	16269	13-12	1030	Thu	721 721 721 1 570 115 570 115 94298 79569 41448 ... 86043 18543 82580 000 000	CW	(AB)
M12	18169	13-12	1050	Thu	721 721 721 1 570 115 570 115 94298 79569 41448 ... 86043 18543 82580 000 000	CW	(AB)
M12	10343	13-12	1900	Thu	124 124 124 1 6473 125 6473 125 66602 25591 70047 ... 16998 58972 49018 000 000	CW	(AB/MPJ)
M12	9264	13-12	1920	Thu	124 124 124 1 6473 125 6473 125 66602 25591 70047 ... 16998 58972 49018 000 000	CW	(AB/MPJ)
M12	8116	13-12	1940	Thu	124 124 124 1 6473 125 6473 125 66602 25591 70047 ... 16998 58972 49018 000 000	CW	(AB/MPJ)
M12	6937	13-12	2210	Thu	975 975 975 000	CW	(AB)
M12	5737	13-12	2230	Thu	975 975 975 000	CW	(AB)
M12	12217	14-12	1310	Fri	253 253 253 000	CW	(AB/MPJ)
M12	11517	14-12	1330	Fri	253 253 253 000	CW	(AB/MPJ)
M12	6908	14-12	2050	Fri	985 985 985 000	CW	(AB/RL-HOL)
M12	5808	14-12	2110	Fri	985 985 985 000	CW	(AB)
M12	5832	14-12	2200	Fri	887 887 887 000	CW	(AB)
M12	6832	14-12	2220	Fri	887 887 887 000	CW	(AB)
M12	5784	15-12	0600	Sat	751 751 751 000	CW	(AB)
M12	7584	15-12	0620	Sat	751 751 751 000	CW	(AB)
M12	5832	15-12	2200	Sat	887 887 887 000	CW	(AB)
M12	6832	15-12	2220	Sat	887 887 887 000	CW	(AB)
M12	14769	16-12	1010	Sun	721 721 721 1 570 115 570 115 94298 79569 41448 ... 86043 18543 82580 000 000	CW	(AnEur)
M12	16269	16-12	1030	Sun	721 721 721 1 570 115 570 115 94298 79569 41448 ... 86043 18543 82580 000 000	CW	(AnEur)
M12	18169	16-12	1050	Sun	721 721 721 1 570 115 570 115 94298 79569 41448 ... 86043 18543 82580 000 000	CW	(AnEur)
M12	13371	17-12	1400	Mon	352 352 352 1 621 147 621 147 52646 43436 28939 ... 90767 04209 05252 000 000	CW	(AB/MPJ)
M12	11571	17-12	1420	Mon	352 352 352 1 621 147 621 147 52646 43436 28939 ... 90767 04209 05252 000 000	CW	(AB/MPJ)
M12	10271	17-12	1440	Mon	352 352 352 1 621 147 621 147 52646 43436 28939 ... 90767 04209 05252 000 000	CW	(AB/MPJ)
M12	8047	17-12	1800	Mon	463 463 463 1 5928 92 5928 92 74421 66356 05990 ... 59968 71488 98952 000 000	CW	(AB/MPJ)
M12	6802	17-12	1820	Mon	463 463 463 1 5928 92 5928 92 74421 66356 05990 ... 59968 71488 98952 000 000	CW	(AB/MPJ)
M12	5788	17-12	1840	Mon	463 463 463 1 5928 92 5928 92 74421 66356 05990 ... 59968 71488 98952 000 000	CW	(AB/MPJ)
M12	10343	17-12	2000	Mon	124 1 7890 106 22228 74506 29531 ... 65478 43918 41388 000 000	CW	(MPJ)
M12	9264	17-12	2020	Mon	124 1 7890 106 22228 74506 29531 ... 65478 43918 41388 000 000	CW	(MPJ)
M12	8116	17-12	2040	Mon	124 1 7890 106 22228 74506 29531 ... 65478 43918 41388 000 000	CW	(RL)
M12	6937	17-12	2210	Mon	975 975 975 000	CW	(AB)
M12	5737	17-12	2230	Mon	975 975 975 000	CW	(AB/LA6LU)
M12	12217	19-12	1310	Wed	253 253 253 000	CW	(AB/MPJ/LA6LU)
M12	11517	19-12	1330	Wed	253 253 253 000	CW	(AB/MPJ/LA6LU)
M12	13371	19-12	1400	Wed	352 352 352 1 621 147 621 147 52646 43436 28939 ... 90767 04209 05252 000 000	CW	(AB/MPJ/LA6LU)
M12	11571	19-12	1420	Wed	352 352 352 1 621 147 621 147 52646 43436 28939 ... 90767 04209 05252 000 000	CW	(AB/MPJ/LA6LU)
M12	10271	19-12	1440	Wed	352 352 352 1 621 147 621 147 52646 43436 28939 ... 90767 04209 05252 000 000	CW	(AB/MPJ)
M12	6908	19-12	2050	Wed	985 985 985 000	CW	(AB/LA6LU)

M12	5808	19-12	2110	Wed	985 985 985 000	CW	(AB/LA6LU/RL-HOL)
M12	5312	19-12	2200	Wed	305 350 350 1 255 77 255 77 78132 12884 94740 ... 68078 23436 12688 000 000	CW	(AB/LA6LU)
M12	4512	19-12	2220	Wed	305 350 350 1 255 77 255 77 78132 12884 94740 ... 68078 23436 12688 000 000	CW	(AB/LA6LU)
M12	4012	19-12	2240	Wed	305 350 350 1 255 77 255 77 78132 12884 94740 ... 68078 23436 12688 000 000	CW	(AB/LA6LU)
M12	13456	20-12	0140	Thu	974 974 974 1 375 53 375 53 30033 92457 19697 72170 92166... 09501 47011 45131 33966 13502 000 000	CW	(RL-J)
M12	14769	20-12	1010	Thu	721 721 721 000	CW	(AB)
M12	16269	20-12	1030	Thu	721 721 721 000	CW	(AB)
M12	10343	20-12	1900	Thu	124 124 124 1 7726 121 7726 121 46057 91695 54500 ... 72266 36129 63428 000 000	CW	(AB-RUS/MPJ)
M12	9264	20-12	1920	Thu	124 124 124 1 7726 121 7726 121 46057 91695 54500 ... 72266 36129 63428 000 000	CW	(AB-RUS/MPJ)
M12	8116	20-12	1940	Thu	124 124 124 1 7726 121 7726 121 46057 91695 54500 ... 72266 36129 63428 000 000	CW	(AB-RUS/MPJ)
M12	5737	20-12	2230	Thu	975 975 975 000	CW	(AB)
M12	12217	21-12	1310	Fri	253 253 253 000	CW	(AB/MPJ)
M12	11517	21-12	1330	Fri	253 253 253 000	CW	(AB/MPJ)
M12	6908	21-12	2050	Fri	985 985 985 000	CW	(AB)
M12	5808	21-12	2110	Fri	985 985 985 000	CW	(AB)
M12	5832	21-12	2200	Fri	887 887 887 1 566 113 566 113 09946 12169 87204 ... 08688 61220 75808 000 000	CW	(AB)
M12	6832	21-12	2220	Fri	887 887 887 1 566 113 566 113 09946 12169 87204 ... 08688 61220 75808 000 000	CW	(AB)
M12	7732	21-12	2240	Fri	887 887 887 1 566 113 566 113 09946 12169 87204 ... 08688 61220 75808 000 000	CW	(AB)
M12	5784	22-12	0600	Sat	751 751 751 1 255 77 255 77 78132 12884 94740 ... 68078 23436 12688 000 000	CW	(AB)
M12	7584	22-12	0620	Sat	751 751 751 1 255 77 255 77 78132 12884 94740 ... 68078 23436 12688 000 000	CW	(AB)
M12	9184	22-12	0640	Sat	751 751 751 1 255 77 255 77 78132 12884 94740 ... 68078 23436 12688 000 000	CW	(AB)
M12	5832	22-12	2200	Sat	887 887 887 1 566 113 566 113 09946 12169 87204 ... 08688 61220 75808 000 000	CW	(AB)
M12	6832	22-12	2220	Sat	887 887 887 1 566 113 566 113 09946 12169 87204 ... 08688 61220 75808 000 000	CW	(AB)
M12	7732	22-12	2240	Sat	887 887 887 1 566 113 566 113 09946 12169 87204 ... 08688 61220 75808 000 000	CW	(AB)
M12	14769	23-12	1010	Sun	721 721 721 000	CW	(AB)
M12	16269	23-12	1030	Sun	721 721 721 000	CW	(AB)
M12	13371	24-12	1400	Mon	352 352 352 000	CW	(AB-RUS)
M12	11571	24-12	1420	Mon	352 352 352 000	CW	(AB)
M12	8047	24-12	1800	Mon	463 463 463 1 3831 100 3831 100 48055 01571 76992 ... 99668 12039 41713 000 000	CW	(AB-AUT)
M12	6802	24-12	1820	Mon	463 463 463 1 3831 100 3831 100 48055 01571 76992 ... 99668 12039 41713 000 000	CW	(AB-AUT)
M12	5788	24-12	1840	Mon	463 463 463 1 3831 100 3831 100 48055 01571 76992 ... 99668 12039 41713 000 000	CW	(AB-AUT)
M12	10343	24-12	2000	Mon	124 124 124 1 1871 108 1871 108 81553 94676 10051 ... 39857 14861 75155 000 000	CW	(AB-RUS)
M12	9264	24-12	2020	Mon	124 124 124 1 1871 108 1871 108 81553 94676 10051 ... 39857 14861 75155 000 000	CW	(AB-RUS)
M12	8116	24-12	2040	Mon	124 124 124 1 1871 108 1871 108 81553 94676 10051 ... 39857 14861 75155 000 000	CW	(AB-RUS)
M12	6937	24-12	2210	Mon	975 975 975 000	CW	(AB)
M12	5737	24-12	2230	Mon	975 975 975 000	CW	(AB/LA6LU)
M12	12217	26-12	1310	Wed	253 253 253 1 9544 91 9544 91 95072 49177 35936 ... 23701 60452 83965 000 000	CW	(AB)
M12	11517	26-12	1330	Wed	253 253 253 1 9544 91 9544 91 95072 49177 35936 ... 23701 60452 83965 000 000	CW	(AB)

M12	10317	26-12	1350	Wed	253 253 253 1 9544 91 9544 91 95072 49177 35936 ... 23701 60452 83965 000 000	CW	(AB)
M12	13371	26-12	1400	Wed	352 352 352 000	CW	(AB)
M12	11571	26-12	1420	Wed	352 352 352 000	CW	(AB)
M12	6908	26-12	2050	Wed	985 985 985 000	CW	(AB)
M12	5808	26-12	2110	Wed	985 985 985 000	CW	(AB)
M12	5312	26-12	2200	Wed	305 350 350 000	CW	(AB)
M12	4512	26-12	2220	Wed	305 350 350 000	CW	(AB)
M12	14769	27-12	1010	Thu	721 721 721 1 363 175 363 175 89028 58073 91518 ... 35711 28424 57953 000 000	CW	(AB)
M12	16269	27-12	1030	Thu	721 721 721 1 363 175 363 175 89028 58073 91518 ... 35711 28424 57953 000 000	CW	(AB)
M12	18169	27-12	1050	Thu	721 721 721 1 363 175 363 175 89028 58073 91518 ... 35711 28424 57953 000 000	CW	(AB)
M12	10343	27-12	1900	Thu	124 124 124 1 5455 116 5455 116 95434 22083 11103 ... 49047 60220 93833 000 000	CW	(AB-RUS)
M12	9264	27-12	1920	Thu	124 124 124 1 5455 116 5455 116 95434 22083 11103 ... 49047 60220 93833 000 000	CW	(AB-RUS)
M12	8116	27-12	1940	Thu	124 124 124 1 5455 116 5455 116 95434 22083 11103 ... 49047 60220 93833 000 000	CW	(AB-RUS)
M12	6937	27-12	2210	Thu	975 975 975 000	CW	(AB)
M12	5737	27-12	2230	Thu	975 975 975 000	CW	(AB)
M12	12217	28-12	1310	Fri	253 253 253 1 9544 91 9544 91 95072 49177 35936 ... 23701 60452 83965 000 000	CW	(AB/MPJ)
M12	11517	28-12	1330	Fri	253 253 253 1 9544 91 9544 91 95072 49177 35936 ... 23701 60452 83965 000 000	CW	(AB/MPJ)
M12	10317	28-12	1350	Fri	253 253 253 1 9544 91 9544 91 95072 49177 35936 ... 23701 60452 83965 000 000	CW	(AB/MPJ)
M12	6908	28-12	2050	Fri	985 985 985 000	CW	(AB)
M12	5808	28-12	2110	Fri	985 985 985 000	CW	(AB)
M12	5832	28-12	2200	Fri	887 887 887 000	CW	(AB)
M12	6832	28-12	2220	Fri	887 887 887 000	CW	(AB)
M12	5784	29-12	0600	Sat	751 751 751 000	CW	(AB)
M12	7584	29-12	0620	Sat	751 751 751 000	CW	(AB)
M12	5832	29-12	2200	Sat	887 887 887 000	CW	(AB)
M12	6832	29-12	2220	Sat	887 887 887 000	CW	(AB)
M12	14769	30-12	1010	Sun	721 721 721 1 363 175 363 175 89028 58073 91518 ... 35711 28424 57953 000 000	CW	(AB)
M12	16269	30-12	1030	Sun	721 721 721 1 363 175 363 175 89028 58073 91518 ... 35711 28424 57953 000 000	CW	(AB)
M12	18169	30-12	1050	Sun	721 721 721 1 363 175 363 175 89028 58073 91518 ... 35711 28424 57953 000 000	CW	(AB)
M12	13371	31-12	1400	Mon	352 352 352 000	CW	(AB/MPJ)
M12	11571	31-12	1420	Mon	352 352 352 000	CW	(AB/MPJ)
M14	18041	3-12	0500	Mon	952 780 780 50 50 = = 54239 26017 83679 ... 20624 20624 92355 = = 780 780 50 50 00000	CW	(AB-NZL)
M14	4024	4-12	1600	Tue	725 725 725 00000	MCW	(MPJ)
M14	18041	7-12	0500	Fri	952 361 361 60 60 = = 60940 53771 14715 ... 01621 57454 49056 = = 361 361 60 60 00000	CW	(AB-NZL)
M14	4813	7-12	1900	Fri	735 735 735 00000	MCW	(AB/MPJ/RL-HOL)
M14	4480	7-12	2000	Fri	735 735 735 00000	MCW	(AB/MPJ)
M14	4730	8-12	0808	Sat	i.p.	MCW	(AB)
M14	4650	8-12	0900	Sat	523 523 523 00000 followed by a message 903 903 43 43 = = 78142 35271 89356 ... 26713 33678 90351 = = 903 903 43 43 00000	MCW	(AB-RUS)

M14	18041	10-12	0500	Mon	952 708 708 55 55 == 97469 45640 01773 ... 25183 03632 23113 == 708 708 55 55 00000	CW	(AB-NZL)
M14	17458	10-12	0930	Mon	617 617 617 00000	CW	(AB)
M14	4636	11-12	1812	Tue	Test: 750 93	MCW	(AB)
M14	4636	11-12	1820	Tue	186 903 903 43 43 == 78142 35271 89356 ... 26713 33678 90351 == 903 903 43 43 00000	MCW	(AB/MPJ)
M14	4761	12-12	1900	Wed	748 (R2)	MCW	(AB)
M14	4761	12-12	1920	Wed	748 903 903 43 43 == 78142 35271 89356 ... 26713 33678 90351 == 903 903 43 43 00000	MCW	(AB/MPJ)
M14	18041	15-12	0500	Sat	952 613 613 50 50 == 83042 62992 24804 ... 39082 42019 24905 == 613 613 50 50 00000	CW	(AB-NZL)
M14	4730	15-12	0800	Sat	523 752 752 44 44 == 67145 36289 90561 ... 75352 11453 90674 == 752 752 44 44 00000	MCW	(AB/HFD)
M14	4650	15-12	0900	Sat	523 752 752 44 44 == 67145 36289 90561 ... 75352 11453 90674 == 752 752 44 44 00000	MCW	(AB/HFD)
M14	18041	17-12	0500	Mon	952 630 630 55 55 == 66929 39465 05467 ... 81915 48507 99266 == 630 630 55 55 00000	CW	(AB-NZL)
M14	18041	18-12	0500	Tue	952 871 871 50 50 == 12885 16820 91932 ... 01832 13080 65509 == 871 871 50 50 0000	CW	(AB-NZL)
M14	4024	18-12	1600	Tue	725 725 725 00000	MCW	(AB/MPJ)
M14	18041	19-12	0500	Wed	952 463 463 55 55 == 69786 13522 00198 ... 24826 34504 65188 == 463 463 55 55 00000	CW	(AB-J)
M14	18041	21-12	0500	Fri	952 430 430 60 60 == 97484 58131 44423 ... 70054 82794 98224 == 430 430 60 60 00000	CW	(AB-NZL)
M14	4813	21-12	1900	Fri	735 735 735 00000	MCW	(AB/MPJ)
M14	4480	21-12	2000	Fri	735 735 735 00000	MCW	(AB/MPJ)
M14	4730	22-12	0800	Sat	532 632 632 43 43 == 67134 78245 89034 ... 23145 56341 67341 == 632 632 43 43 00000	MCW	(AB)
M14	4650	22-12	0900	Sat	532 632 632 43 43 == 67134 78245 89034 ... 23145 56341 67341 == 632 632 43 43 00000	MCW	(AB)
M14	18041	25-12	0500	Tue	952 373 373 50 50 == 55690 09766 55240 ... 82708 83546 81218 == 373 373 50 50 00000	CW	(AB-NZL)
M14	17458	25-12	0930	Tue	617 617 617 00000	CW	(AB)
M14	4730	29-12	0804	Sat	Late start 523 (57 secs silence) 78153 46238 90451 ... 90351 26481 45123 == 348 348 43 43 000	MCW	(AB)
M14	4650	29-12	0900	Sat	523 48 43 43 == 78153 46238 90451 ... 90351 26481 45123 == 348 348 43 43 000	MCW	(AB)
M21	4582	8-12	1232	Sat	=991523??0???? =991524??0????	CW	(JPL-Sib)
M23	5345	1-12	1620	Sat	111 (R15)	CW	(Abder)
M23	5345	9-12	1620	Sun	111 (R10)	CW	(WP3)
M23	5345	12-12	1620	Wed	111 (R10)	CW	(AB)
M23	5345	14-12	1630	Fri	i.p. 111 (R)	CW	(AB)
M32	12707	3-12	1028	Mon	XXX XXX WEGI WEGI 14833 SIGOBUND 9489 5722	CW	(JU)
M32	14411	3-12	1034	Mon	RDL: XXX XXX WEGI WEGI 20500 14833 SIGOBUND 9489 5722	CW	(JU)
M32	14411	3-12	1041	Mon	RDL: XXX XXX M7A2 M7A2 85151 04224 KUPAV 4105 0510	CW	(JU)
M32	14411	3-12	1058	Mon	RDL: XXX XXX M7A2 M7A2 34898 93071 ZALXNYJ 2642 6188	CW	(JU)
M32	7678	4-12	1204	Tue	XXX XXX MFT5 MFT5 98509 MAHOOeAS 6477 4723 IRISOChUAN 9866 6201	CW	(JU)
M32	8002	14-12	0119	Fri	GHNT GHNT GHNT DE BYJ4 BYJ4 QTC 385 30 14 0410 385 118 11111 70271 85406 89847 91391 92066 08372 10380 ... 31526? 89118 70271 85406 14028 K	CW	(RL-J)
M32	4625.5	15-12	0627	Sat	RJD99 DE RBC89 RBC89 QSA? QTC K	CW	(AB)
M32	4783	22-12	0842	Sat	XXX XXX EANA PA4369 XXX XXX ANA PA4369 K	CW	(JPL-Sib)
M32a	8191	3-12	1037	Mon	RMP: XXX XXX REO REO 68929 KALAMBURNYJ 3019 0411	CW	(JU)
M32a	11155	3-12	1039	Mon	RIT: XXX XXX M7A2 M7A2 04224 KUPAV 4105 0510	CW	(JU)

M32a	3180.8	10-12	1221	Mon	i.p. 1ZVP K. RFK80 DE RJS ZDZ 1 ZKM ? K. ZDS GNGO ZZT VLLK LLMVKKLVVMVVVLMKLKLMM ...	CW	(JPL-Sib)
M32a	7602	21-12	1009	Fri	RLO RLO DE RIT RIT QTC 207 34 21 1258 207 = RADIOPROGNOZ 21128 6303 ...	CW	(AB)
M32a	4244	22-12	1432	Sat	RJD97 DE RLR63 K. RJD97 DE RLR63 QTC K. RJS DE RLR63 K	CW	(JPL)
M42	14363	17-12	0826	Mon	MFA Moscow working Embassy Bern (QX 16335 kHz)	MFSK-66	(Danix)
M42	16335	17-12	0826	Mon	Russian embassy Bern working MFA Moscow (QX 14363 kHz)	MFSK-66	(Danix)
M42	9088	17-12	0834	Mon	Russian embassy Bern working MFA Moscow (QX 10900 kHz)	MFSK-66	(Danix)
M42	10900	17-12	0834	Mon	MFA Moscow working Embassy Bern (QX 9088 kHz)	MFSK-66	(Danix)
M42	16166	18-12	1154	Tue	MFA Moscow wkg unid embassy. Link is 30044 (QX 17442 kHz)	Serdolik MFSK	(Danix)
M42	17442	18-12	1154	Tue	Unid Russian embassy. Link id 30044 wkg MFA Moscow (QX 16166 kHz)	Serdolik MFSK	(Danix)
M42	14933	18-12	1213	Tue	MFA Moscow wkg unid embassy. Link is 30044 (QX 16213 kHz)	Serdolik MFSK	(Danix)
M42	16213	18-12	1213	Tue	Unid Russian embassy. Link id 30044 wkg MFA Moscow (QX 14933 kHz)	Serdolik MFSK	(Danix)
M51a	3881	31-12	1230	Mon	VVV DE FAV22 QLH 3881/6825 kHz. Then very slow mixed FGs/LGs & punctuation //6825 kHz	CW	(MPJ)
M51a	6825	31-12	1230	Mon	VVV DE FAV22 QLH 3881/6825 kHz. Then very slow mixed FGs/LGs & punctuation //3881 kHz	CW	(MPJ)
M51b	3881	5-12	1955	Wed	i.p. SDPLI CBSJW 23561 XBAGQ .',*/ NCPOE XBSHW SKWOP IABWU CBEYD etc //6825 kHz	CW	(AB)
M51b	6825	5-12	1955	Wed	i.p. SDPLI CBSJW 23561 XBAGQ .',*/ NCPOE XBSHW SKWOP IABWU CBEYD etc //3881 kHz	CW	(AB)
M51b	6825	8-12	1214	Sat	Morse Practice. Mixed content	CW	(AB)
M51b	3881	9-12	1544	Sun	i.p. MXSUH */., NCDJE LGPTO BCEYG CXAVQ NBMTI PJLYO BVDYE SQAIIH /*.,' JDUEN 20589 etc. etc.	CW	(AB)
M51b	3881	12-12	1413	Wed	i.p. XAZSQ NVH DU WOFL LGPAM KLDPW CXAWS 10589 MCNCH .,'? VCGSH KGIEO LPSOI DHQU etc //6825 kHz	CW	(AB)
M51b	6825	12-12	1413	Wed	i.p. XAZSQ NVH DU WOFL LGPAM KLDPW CXAWS 10589 MCNCH .,'? VCGSH KGIEO LPSOI DHQU etc //3881 kHz	CW	(AB)
M51b	6825	12-12	2010	Wed	CZXAD QPLOE BDGET ... (Mixed)	CW	(MPJ)
M89	3238	1-12	0835	Sat	V M8JF (x3) DE RIS9 (x2) //4870	CW	(JPL)
M89	4870	1-12	0835	Sat	V M8JF (x3) DE RIS9 (x2) //3238	CW	(JPL)
M89	5835	1-12	0840	Sat	V QW2A (x3) DE G5VD (x2) //10589	CW	(JPL)
M89	10589	1-12	0840	Sat	V QW2A (x3) DE G5VD (x2) //5835	CW	(JPL)
M89	5069	1-12	0845	Sat	i.p. R GA K R GA K. R R QSL 1653 K HR MSG NR 002 CK 99 97 1201 1653 RMKS 8835 TO 0333 K	CW	(JPL)
M89	5037	1-12	0901	Sat	i.p. R QSA 2 K. R IEC = 57.5 AR K	CW	(JPL)
M89	4131	1-12	1435	Sat	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4326	1-12	1438	Sat	V QW2A (x3) DE G5VD (x2) //4904	CW	(JPL)
M89	4904	1-12	1438	Sat	V QW2A (x3) DE G5VD (x2) //4326	CW	(JPL)
M89	3543	1-12	1606	Sat	i.p. R RPT K R 06W TATU TATU = R RPT 16W NATD NATD K (Cont'd to repeat groups)	CW	(JPL)
M89	4131	2-12	0121	Sun	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	6874	2-12	0124	Sun	V M8JF (x3) DE RIS9 (x2) //8157	CW	(JPL)
M89	8157	2-12	0124	Sun	V M8JF (x3) DE RIS9 (x2) //6874	CW	(JPL)
M89	5835	2-12	0126	Sun	V QW2A (x3) DE G5VD (x2) //10589	CW	(JPL)
M89	10589	2-12	0126	Sun	V QW2A (x3) DE G5VD (x2) //5835	CW	(JPL)
M89	5177	2-12	1007	Sun	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)

M89	3205	2-12	1008	Sun	V ZUD5 (x3) DE DR8P (x2) QSA 2 QSA ? K NIL SK GB DE DE... 2 QSA ? K	CW	(JPL)
M89	4952	2-12	1008	Sun	V QWSJ (x3) DE 87DS (x2)	CW	(JPL)
M89	3238	2-12	1030	Sun	V M8JF (x3) DE RIS9 (x2) //8157 and 6878	CW	(JPL)
M89	6874	2-12	1030	Sun	V M8JF (x3) DE RIS9 (x2) //8157 and 3238	CW	(JPL)
M89	8157	2-12	1030	Sun	V M8JF (x3) DE RIS9 (x2) //6874 and 3238	CW	(JPL)
M89	5835	2-12	1042	Sun	V QW2A (x3) DE G5VD (x2)	CW	(JPL)
M89	3238	3-12	1002	Mon	V M8JF (x3) DE RIS9 (x2) //4870	CW	(JPL)
M89	4870	3-12	1002	Mon	V M8JF (x3) DE RIS9 (x2) //3238	CW	(JPL)
M89	5835	3-12	1004	Mon	V QW2A (x3) DE G5VD (x2) //10589	CW	(JPL)
M89	10589	3-12	1004	Mon	V QW2A (x3) DE G5VD (x2) //5835	CW	(JPL)
M89	4131	3-12	1438	Mon	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4326	3-12	1442	Mon	V QW2A (x3) DE G5VD (x2) //4904	CW	(JPL)
M89	4904	3-12	1442	Mon	V QW2A (x3) DE G5VD (x2) //4326	CW	(JPL)
M89	3238	4-12	0850	Tue	V M8JF (x3) DE RIS9 (x2) //4870 and 6874 and 8157	CW	(JPL)
M89	4870	4-12	0850	Tue	V M8JF (x3) DE RIS9 (x2) //3238 and 6874 and 8157	CW	(JPL)
M89	6874	4-12	0850	Tue	V M8JF (x3) DE RIS9 (x2) //3238 and 4870 and 8157	CW	(JPL)
M89	8157	4-12	0850	Tue	V M8JF (x3) DE RIS9 (x2) //3238 and 4870 and 6874	CW	(JPL)
M89	5835	4-12	0853	Tue	V QW2A (x3) DE G5VD (x2) //10589	CW	(JPL)
M89	10589	4-12	0853	Tue	V QW2A (x3) DE G5VD (x2) //5835	CW	(JPL)
M89	4131	4-12	1453	Tue	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	5177	5-12	0855	Wed	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	5835	5-12	0900	Wed	V QW2A (x3) DE G5VD (x2) //10589	CW	(JPL)
M89	10589	5-12	0900	Wed	V QW2A (x3) DE G5VD (x2) //5835	CW	(JPL)
M89	3238	5-12	0902	Wed	V M8JF (x3) DE RIS9 (x2) //4870 and 6874 and 8157	CW	(JPL)
M89	4870	5-12	0902	Wed	V M8JF (x3) DE RIS9 (x2) //3238 and 6874 and 8157	CW	(JPL)
M89	6874	5-12	0902	Wed	V M8JF (x3) DE RIS9 (x2) //3238 and 4870 and 8157	CW	(JPL)
M89	8157	5-12	0902	Wed	V M8JF (x3) DE RIS9 (x2) //3238 and 4870 and 6874	CW	(JPL)
M89	4131	5-12	1811	Wed	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4326	5-12	1814	Wed	V QW2A (x3) DE G5VD (x2) //4904	CW	(JPL)
M89	4904	5-12	1814	Wed	V QW2A (x3) DE G5VD (x2) //4326	CW	(JPL)
M89	5149	6-12	0802	Thu	i.p. A4A4 7N4N 35DD TTT6 56NT TT77 346U ...	CW	(JPL)
M89	5335	6-12	0806	Thu	i.p. R F GA K R GA FF NR 6243/EX 1608 =	CW	(JPL)
M89	4326	8-12	1216	Sat	V QW2A (x3) DE G5VD (x2) //4904	CW	(JPL)
M89	4904	8-12	1216	Sat	V QW2A (x3) DE G5VD (x2) //4326	CW	(JPL)
M89	4598	8-12	1219	Sat	i.p. 1P GA = = 57T D7UA 7..5 53T7 7ADU 4.NA UN7A .4UN 34ND ...	CW	(JPL)
M89	3238	8-12	1226	Sat	V M8JF (x3) DE RIS9 (x2) //4870	CW	(JPL)
M89	4870	8-12	1226	Sat	V M8JF (x3) DE RIS9 (x2) //3238	CW	(JPL)
M89	3836	8-12	1232	Sat	i.p. 221 RMKS = 299.. 98 TO .9. 69. K K = = = = = .U.ATU5 3N7A 6D34 ND6T U7NA ...	CW	(JPL)
M89	5177	9-12	1117	Sun	V JKDJ (x3) DE SLBC (x2) /	CW	(JPL)

M89	4870	9-12	1118	Sun	V M8JF (x3) DE RIS9 (x2) //3238	CW	(JPL)
M89	4326	9-12	1119	Sun	V QW2A (x3) DE G5VD (x2) //4904	CW	(JPL)
M89	4904	9-12	1119	Sun	V QW2A (x3) DE G5VD (x2) //4326	CW	(JPL)
M89	4620	9-12	1120	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //4860 and 6840	CW	(JPL)
M89	4860	9-12	1120	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //4620 and 6840	CW	(JPL)
M89	6840	9-12	1120	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //4620 and 4860	CW	(JPL)
M89	4720	9-12	1130	Sun	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K //5150	CW	(JPL)
M89	5150	9-12	1130	Sun	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K //4720	CW	(JPL)
M89	4131	9-12	1554	Sun	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4123	9-12	1603	Sun	i.p. VV 4DBE DE VV R 4DBE DE 998E K R QSL D EEEE HI R R QSA 2 QSA ? K	CW	(JPL)
M89	3238	9-12	2248	Sun	V M8JF (x3) DE RIS9 (x2) //4870 and 6874 and 8157	CW	(JPL)
M89	4870	9-12	2248	Sun	V M8JF (x3) DE RIS9 (x2) //3238 and 6874 and 8157	CW	(JPL)
M89	6840	9-12	2248	Sun	V M8JF (x3) DE RIS9 (x2) //3238 and 4870 and 8157	CW	(JPL)
M89	8157	9-12	2248	Sun	V M8JF (x3) DE RIS9 (x2) //3238 and 4870 and 6874	CW	(JPL)
M89	3194	9-12	2254	Sun	i.p. 3A65 NTAD U73N 7375 DUNN UN76 UN36 ... AR K	CW	(JPL)
M89	3230	9-12	2306	Sun	i.p. 6AAT NATA 374N 556N TA74 D6U4 ... III = AND5 AN67 A7N5 6DD4 3TDU 5TTA ...	CW	(JPL)
M89	4131	10-12	1158	Mon	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	3238	10-12	1200	Mon	V M8JF (x3) DE RIS9 (x2) //4870	CW	(JPL)
M89	4870	10-12	1200	Mon	V M8JF (x3) DE RIS9 (x2) //3238	CW	(JPL)
M89	3230	10-12	1202	Mon	i.p. R 26W = U7DT AR K R 26W BT U7DT AR K R RPT K R 46W TO 50W BT DNNN 34.D 6746 NU34 TT5U AR K	CW	(JPL)
M89	4326	10-12	1212	Mon	V QW2A (x3) DE G5VD (x2) //4904	CW	(JPL)
M89	4904	10-12	1212	Mon	V QW2A (x3) DE G5VD (x2) //4326	CW	(JPL)
M89	3116	10-12	1215	Mon	i.p. 99831 AR K K = AU34 567D NT45 67DN TAU3 3457 D3N5 DUTA DUNT ...	CW	(JPL)
M89	3046	10-12	1217	Mon	i.p. 96 AR MSG NR 1216 CK 65 8 1210 2022 RMKS = X692 TO X696 AR	CW	(JPL)
M89	3210	10-12	1226	Mon	i.p. R RPT 77W R RPT 11W QSL 2029 K SK GB	CW	(JPL)
M89	4131	13-12	1056	Thu	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	3238	13-12	1102	Thu	V M8JF (x3) DE RIS9 (x2) //4870	CW	(JPL)
M89	4870	13-12	1102	Thu	V M8JF (x3) DE RIS9 (x2) //3238	CW	(JPL)
M89	3246	13-12	1110	Thu	i.p. 6ADT U7TN 57A6 3DAN AU43 NDA7 ...	CW	(JPL)
M89	3508	13-12	1113	Thu	i.p. = = = HGR/GT AR QSY LW QSY LW QSY LW QSY LW QSY LW QSY LW QSY LW	CW	(JPL)
M89	3242	13-12	1115	Thu	i.p. 191. = IEO./92 FFF NR .357/EX = IEOZ/9W FFF NR 135/EX = 1918 = IEOZ/9W QSY .. QSY 07	CW	(JPL)
M89	3231	13-12	1118	Thu	i.p. DUAD NA56 U5AN 7U67 DUD5 556A ...	CW	(JPL)
M89	6874	14-12	0053	Fri	V M8JF M8JF M8JF DE RIS9 RIS9	CW	(RL-J)
M89	8157	14-12	0113	Fri	V M8JF M8JF M8JF DE RIS9 RIS9	CW	(RL-J)
M89	4131	14-12	1802	Fri	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	3238	14-12	2302	Fri	V M8JF (x3) DE RIS9 (x2) //4870	CW	(JPL)
M89	4870	14-12	2302	Fri	V M8JF (x3) DE RIS9 (x2) //3238	CW	(JPL)
M89	3238	15-12	0927	Sat	V M8JF (x3) DE RIS9 (x2) //4870 and 6874	CW	(JPL)

M89	4131	15-12	1614	Sat	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	3238	15-12	1618	Sat	V M8JF (x3) DE RIS9 (x2) //4870	CW	(JPL)
M89	4870	15-12	1618	Sat	V M8JF (x3) DE RIS9 (x2) //3238	CW	(JPL)
M89	4904	15-12	1620	Sat	V QW2A (x3) DE G5VD (x2)	CW	(JPL)
M89	4870	16-12	0927	Sun	V M8JF (x3) DE RIS9 (x2) //3238 and 6874	CW	(JPL)
M89	6874	16-12	0927	Sun	V M8JF (x3) DE RIS9 (x2) //3238 and 4870	CW	(JPL)
M89	5835	16-12	0930	Sun	V QW2A (x3) DE G5VD (x2)	CW	(JPL)
M89	5177	18-12	0727	Tue	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	6874	18-12	0739	Tue	V M8JF (x3) DE RIS9 (x2) //8157	CW	(JPL)
M89	8157	18-12	0739	Tue	V M8JF (x3) DE RIS9 (x2) //6874	CW	(JPL)
M89	5835	18-12	0742	Tue	V QW2A (x3) DE G5VD (x2)	CW	(JPL)
M89	5835	18-12	1132	Tue	V QW3A DE G5VD	CW	(EW)
M89	6874	19-12	0141	Wed	V M8JF (x3) DE RIS9 (x2) //8157	CW	(JPL)
M89	8157	19-12	0141	Wed	V M8JF (x3) DE RIS9 (x2) //6874	CW	(JPL)
M89	5835	19-12	0143	Wed	V QW2A (x3) DE G5VD (x2) //10589	CW	(JPL)
M89	10589	19-12	0143	Wed	V QW2A (x3) DE G5VD (x2) //5835	CW	(JPL)
M89	5177	19-12	0826	Wed	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	3238	19-12	0830	Wed	V M8JF (x3) DE RIS9 (x2) //8157 and 6874 and 4870	CW	(JPL)
M89	4870	19-12	0830	Wed	V M8JF (x3) DE RIS9 (x2) //8157 and 6874 and 3238	CW	(JPL)
M89	6874	19-12	0830	Wed	V M8JF (x3) DE RIS9 (x2) //8157 and 4870 and 3238	CW	(JPL)
M89	8157	19-12	0830	Wed	V M8JF (x3) DE RIS9 (x2) //6874 and 4870 and 3238	CW	(JPL)
M89	5835	19-12	0839	Wed	V QW2A (x3) DE G5VD (x2) //10589	CW	(JPL)
M89	10589	19-12	0839	Wed	V QW2A (x3) DE G5VD (x2) //5835	CW	(JPL)
M89	5835	21-12	0230	Fri	V QW2A (x3) DE G5VD (x2) //10589	CW	(JPL)
M89	10589	21-12	0230	Fri	V QW2A (x3) DE G5VD (x2) //5835	CW	(JPL)
M89	5796	21-12	0231	Fri	i.p. HR 7G K. GA K. R NR NR 4995 CK 54 1221 1000 RMKS 6167 TO 6192 K	CW	(JPL)
M89	5840	21-12	0240	Fri	i.p. 7D53 3UDT 3TD4 4DNU AUNT U5N6 A4NT ... III = 3A75 7UAN 37N4 A5D7 UN7A ...	CW	(JPL)
M89	3238	21-12	0950	Fri	V M8JF (x3) DE RIS9 (x2) //4870	CW	(JPL)
M89	4870	21-12	0950	Fri	V M8JF (x3) DE RIS9 (x2) //3238	CW	(JPL)
M89	5835	21-12	0951	Fri	V QW2A (x3) DE G5VD (x2) //10589	CW	(JPL)
M89	10589	21-12	0951	Fri	V QW2A (x3) DE G5VD (x2) //5835	CW	(JPL)
M89	4326	21-12	1656	Fri	V QW2A (x3) DE G5VD (x2) //4904	CW	(JPL)
M89	4904	21-12	1656	Fri	V QW2A (x3) DE G5VD (x2) //4326	CW	(JPL)
M89	4952	21-12	1700	Fri	V QWS1 (x3) DE 87DS (x2)	CW	(JPL)
M89	4952	21-12	2316	Fri	V QWS1 (x3) DE 87DS (x2)	CW	(JPL)
M89	3238	21-12	2318	Fri	V M8JF (x3) DE RIS9 (x2) //4870 and 6874 and 8157	CW	(JPL)
M89	4870	21-12	2318	Fri	V M8JF (x3) DE RIS9 (x2) //3238 and 6874 and 8157	CW	(JPL)
M89	6874	21-12	2318	Fri	V M8JF (x3) DE RIS9 (x2) //3238 and 4870 and 8157	CW	(JPL)
M89	8157	21-12	2318	Fri	V M8JF (x3) DE RIS9 (x2) //3238 and 4870 and 6874	CW	(JPL)

M89	5835	22-12	0245	Sat	V QW2A (x3) DE G5VD (x2) //10589	CW	(JPL)
M89	10589	22-12	0245	Sat	V QW2A (x3) DE G5VD (x2) //5835	CW	(JPL)
M89	6874	22-12	0254	Sat	V M8JF (x3) DE RIS9 (x2) //8157	CW	(JPL)
M89	8157	22-12	0254	Sat	V M8JF (x3) DE RIS9 (x2) //6874	CW	(JPL)
M89	4131	22-12	0816	Sat	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	5177	22-12	0816	Sat	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	5835	22-12	0819	Sat	V QW2A (x3) DE G5VD (x2) //10589	CW	(JPL)
M89	10589	22-12	0819	Sat	V QW2A (x3) DE G5VD (x2) //5835	CW	(JPL)
M89	4828	22-12	0844	Sat	i.p. 36N3 46ND AD4D 7T3D DU67 ...	CW	(JPL)
M89	4860	22-12	1420	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //6840	CW	(JPL)
M89	6840	22-12	1420	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //4860	CW	(JPL)
M89	3238	22-12	1426	Sat	V M8JF (x3) DE RIS9 (x2) //4870	CW	(JPL)
M89	4870	22-12	1426	Sat	V M8JF (x3) DE RIS9 (x2) //3238	CW	(JPL)
M89	5177	23-12	1130	Sun	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	3238	23-12	2211	Sun	V M8JF (x3) DE RIS9 (x2) //4870	CW	(JPL)
M89	4870	23-12	2211	Sun	V M8JF (x3) DE RIS9 (x2) //3238	CW	(JPL)
M89	4326	23-12	2213	Sun	V QW2A (x3) DE G5VD (x2) //4904	CW	(JPL)
M89	4904	23-12	2213	Sun	V QW2A (x3) DE G5VD (x2) //4326	CW	(JPL)
M89	3238	31-12	1230	Mon	V M8JF (x3) DE RIS9 (x2) //4870	CW	(JPL)
M89	4870	31-12	1230	Mon	V M8JF (x3) DE RIS9 (x2) //3238	CW	(JPL)
M95	5801	1-12	0830	Sat	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M95	10180	1-12	0830	Sat	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M95	3642	1-12	1437	Sat	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M95	7602	1-12	1437	Sat	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M95	3642	2-12	0119	Sun	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M95	7602	2-12	0119	Sun	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M95	5801	2-12	1025	Sun	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M95	10180	2-12	1025	Sun	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M95	3642	2-12	2139	Sun	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M95	7602	2-12	2139	Sun	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M95	5801	3-12	0958	Mon	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M95	10180	3-12	0958	Mon	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M95	3642	4-12	1054	Tue	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M95	7602	4-12	1054	Tue	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M95	5801	5-12	0858	Wed	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M95	10180	5-12	0858	Wed	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M95	3642	5-12	1813	Wed	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M95	7602	5-12	1813	Wed	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M95	5801	8-12	1212	Sat	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)

M95	5801	9-12	1118	Sun	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M95	8073	9-12	1130	Sun	V BNGC (x3) DE XSV85 (x2) HR MSG GA PSE CY NR 1128 CK 40 35 1208 16.. == TAU N5U TTN	CW	(JPL)
					...		
M95	4243	9-12	1148	Sun	i.p. AR A HR 7G GA NR 18 CK 162 35 1209 1612 = UTU TTN 3U6 3A4 TTU ...	CW	(JPL)
M95	3642	9-12	1556	Sun	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M95	7602	9-12	1556	Sun	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M95	8073	10-12	1141	Mon	BNGC DE XSV85 HR MSGS GA PSE CY NR 1123 CK 30 35 1210 1634 = = TAU N5U TAT N53 TAD N54 ...	CW	(JPL)
M95	4243	10-12	1150	Mon	i.p. too weak to copy	CW	(JPL)
M95	5801	10-12	1156	Mon	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M95	10180	10-12	1156	Mon	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M95	5801	13-12	1053	Thu	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M95	3642	14-12	1800	Fri	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M95	7602	14-12	1800	Fri	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M95	3642	15-12	1616	Sat	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M95	7602	15-12	1616	Sat	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M95	5801	18-12	0724	Tue	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M95	10180	18-12	0724	Tue	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M95	3642	19-12	0137	Wed	V DKG6 (x3) DE 3A7D (x2) //760	CW	(JPL)
M95	7602	19-12	0137	Wed	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M95	10180	19-12	0823	Wed	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M95	5801	19-12	0824	Wed	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M95	10180	19-12	0824	Wed	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M95	4243	19-12	1134	Wed	i.p. mostly unreadable	CW	(JPL)
M95	4364	19-12	1134	Wed	BNGC DE XSV85 CY NR 1161 CK 16N EEEE NR 1150 CK 169 35 1219 1542 = TAN 3U6 3AN 3U7 TAU 773 356 AR ... UB WK //8073	CW	(JPL)
M95	8073	19-12	1134	Wed	BNGC DE XSV85 CY NR 1161 CK 16N EEEE NR 1150 CK 169 35 1219 1542 = TAN 3U6 3AN 3U7 TAU 773 356 AR ... UB WK //4364	CW	(JPL)
M95	5801	21-12	0947	Fri	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M95	10180	21-12	0947	Fri	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M95	3642	21-12	1652	Fri	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M95	7602	21-12	1652	Fri	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M95	3045	21-12	1705	Fri	V JX0N (x3) DE E2UG (x2) DE R 3U.3 QSA . QSA ? K. NR AS CL DE R BUY2 QSA 2 QSA ? K	CW	(JPL)
M95	5801	22-12	0814	Sat	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M95	10180	22-12	0814	Sat	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M95	3642	22-12	1410	Sat	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M95	7602	22-12	1410	Sat	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M95	4625	22-12	1438	Sat	i.p. CD5K DE 5288 K. R R R R QSA 2 K. R R	CW	(JPL)
M95	8073	23-12	1154	Sun	BNGC DE XSV85 HR MSGS GA PSE CY NR 1171 CK 38 35 1223 1630 = TU3 3U6 3AN 3U7 ...	CW	(JPL)

M95	4243	23-12	1206	Sun	i.p. NR 46 CK 195 35 1223 1630 = ... 3U6 3A4 T.. 773 ...	CW	(JPL)
M95	3642	23-12	2206	Sun	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M95	7602	23-12	2206	Sun	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M95	4364	31-12	1207	Mon	i.p. A HR 7G NR 1215 CK 50 35 1231 1635 = AR A HR MSG GA NR 1216 CK 48 35 1231 1636 = //8073	CW	(JPL)
M95	8073	31-12	1207	Mon	i.p. A HR 7G NR 1215 CK 50 35 1231 1635 = AR A HR MSG GA NR 1216 CK 48 35 1231 1636 = //4364	CW	(JPL)
M95	4243	31-12	1215	Mon	i.p. AR A HR UP SB WK	CW	(JPL)
M95	5801	31-12	1237	Mon	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
MC03	3798.5	13-12	1739	Thu	Chinese Air Defense 6D4 UA5 64 7UU6DUN AT3 3N 6D4 UAH 645 7TU3N63 AAT 3N 6D4 UA5 63A D3U5N3A AAT 4T	CW	(AB-J)
MX	10871.7	7-12	1848	Fri	Beacon D, Sevastopol	CW	(RL-HOL)
MX	16332.4	13-12	0156	Thu	Beacon M, Magadan	CW	(RL-J)
MX	7508.7	26-12	1945	Wed	Beacon D, Sevastopol	CW	(AB)
MX	7509.1	26-12	1945	Wed	Beacon A, Ashkebad	CW	(AB)
P03a	16335	1-12	1140	Sat	Polish intel.	BPSK-63	(AB)
P03a	16335	1-12	1145	Sat	Polish intel.	BPSK-63	(AB)
P03a	10487	1-12	1225	Sat	Polish intel.	BPSK-63	(AB)
P03a	10487	1-12	1230	Sat	Polish intel.	BPSK-63	(AB)
P03a	6986	1-12	1435	Sat	Polish intel.	BPSK-63	(AB)
P03a	6986	1-12	1440	Sat	Polish intel.	BPSK-63	(AB)
P03a	14975	1-12	1600	Sat	Polish intel.	BPSK-63	(AB)
P03a	14975	1-12	1605	Sat	Polish intel.	BPSK-63	(AB)
P03a	5371	2-12	1725	Sun	Polish intel.	BPSK-63	(AB)
P03a	5371	2-12	1730	Sun	Polish intel.	BPSK-63	(AB)
P03a	13470	3-12	1410	Mon	Polish intel.	BPSK-63	(AB)
P03a	13470	3-12	1415	Mon	Polish intel.	BPSK-63	(AB)
P03a	16335	4-12	1140	Tue	Polish intel.	BPSK-63	(AB)
P03a	16335	4-12	1145	Tue	Polish intel.	BPSK-63	(AB)
P03a	15905	4-12	1415	Tue	Polish intel.	BPSK-63	(AB)
P03a	15905	4-12	1420	Tue	Polish intel.	BPSK-63	(AB)
P03a	10487	5-12	1225	Wed	Polish intel.	BPSK-63	(AB)
P03a	10487	5-12	1230	Wed	Polish intel.	BPSK-63	(AB)
P03a	6986	5-12	1435	Wed	Polish intel.	BPSK-63	(AB)
P03a	6986	5-12	1440	Wed	Polish intel.	BPSK-63	(AB)
P03a	14795	5-12	1600	Wed	Polish intel.	BPSK-63	(AB)
P03a	14795	5-12	1605	Wed	Polish intel.	BPSK-63	(AB)
P03a	15905	6-12	1415	Thu	Polish intel.	BPSK-63	(AB)
P03a	15905	6-12	1420	Thu	Polish intel.	BPSK-63	(AB)

P03a	16112	7-12	1440	Fri	Polish intel.	BPSK-63	(AB)
P03a	16112	7-12	1445	Fri	Polish intel.	BPSK-63	(AB)
P03a	8680	7-12	1500	Fri	Polish intel.	BPSK-63	(AB)
P03a	11100	7-12	1635	Fri	Polish intel.	BPSK-63	(AB)
P03a	11100	7-12	1640	Fri	Polish intel.	BPSK-63	(AB)
P03a	16335	8-12	1140	Sat	Polish intel.	BPSK-63	(AB)
P03a	16335	8-12	1145	Sat	Polish intel.	BPSK-63	(AB)
P03a	10487	8-12	1225	Sat	Polish intel.	BPSK-63	(AB)
P03a	10487	8-12	1230	Sat	Polish intel.	BPSK-63	(AB)
P03a	16112	9-12	1440	Sun	Polish intel.	BPSK-63	(AB)
P03a	16112	9-12	1445	Sun	Polish intel.	BPSK-63	(AB)
P03a	8680	9-12	1500	Sun	Polish intel.	BPSK-63	(AB)
P03a	5371	9-12	1725	Sun	Polish intel.	BPSK-63	(AB)
P03a	5371	9-12	1730	Sun	Polish intel.	BPSK-63	(AB)
P03a	13470	10-12	1410	Mon	Polish intel.	BPSK-63	(AB)
P03a	13470	10-12	1415	Mon	Polish intel.	BPSK-63	(AB)
P03a	16335	11-12	1140	Tue	Polish intel.	BPSK-63	(AB)
P03a	16335	11-12	1145	Tue	Polish intel.	BPSK-63	(AB)
P03a	15905	11-12	1415	Tue	Polish intel.	BPSK-63	(AB)
P03a	15905	11-12	1420	Tue	Polish intel.	BPSK-63	(AB)
P03a	5371	11-12	1725	Tue	Polish intel.	BPSK-63	(AB)
P03a	5371	11-12	1730	Tue	Polish intel.	BPSK-63	(AB)
P03a	10487	12-12	1225	Wed	Polish intel.	BPSK-63	(AB)
P03a	10487	12-12	1230	Wed	Polish intel.	BPSK-63	(AB)
P03a	6986	12-12	1435	Wed	Polish intel.	BPSK-63	(AB)
P03a	6986	12-12	1440	Wed	Polish intel.	BPSK-63	(AB)
P03a	14795	12-12	1600	Wed	Polish intel.	BPSK-63	(AB)
P03a	14795	12-12	1605	Wed	Polish intel.	BPSK-63	(AB)
P03a	15905	13-12	1415	Thu	Polish intel.	BPSK-63	(AB)
P03a	15905	13-12	1420	Thu	Polish intel.	BPSK-63	(AB)
P03a	16112	14-12	1440	Fri	Polish intel.	BPSK-63	(AB)
P03a	16112	14-12	1445	Fri	Polish intel.	BPSK-63	(AB)
P03a	8680	14-12	1500	Fri	Polish intel.	BPSK-63	(AB)
P03a	11100	14-12	1635	Fri	Polish intel.	BPSK-63	(AB)
P03a	11100	14-12	1640	Fri	Polish intel.	BPSK-63	(AB)
P03a	16335	15-12	1140	Sat	Polish intel.	BPSK-63	(AB)
P03a	16335	15-12	1145	Sat	Polish intel.	BPSK-63	(AB)
P03a	10487	15-12	1225	Sat	Polish intel.	BPSK-63	(AB)
P03a	10487	15-12	1230	Sat	Polish intel.	BPSK-63	(AB)

P03a	5371	16-12	1725	Sun	Polish intel.	BPSK-63	(AB)
P03a	5371	16-12	1730	Sun	Polish intel.	BPSK-63	(AB)
P03a	13470	17-12	1410	Mon	Polish intel.	BPSK-63	(AB)
P03a	13470	17-12	1415	Mon	Polish intel.	BPSK-63	(AB)
P03a	11100	17-12	1635	Mon	Polish intel.	BPSK-63	(AB)
P03a	11100	17-12	1640	Mon	Polish intel.	BPSK-63	(AB)
P03a	16335	18-12	1140	Tue	Polish intel.	BPSK-63	(AB)
P03a	16335	18-12	1145	Tue	Polish intel.	BPSK-63	(AB)
P03a	15905	18-12	1415	Tue	Polish intel.	BPSK-63	(AB)
P03a	15905	18-12	1420	Tue	Polish intel.	BPSK-63	(AB)
P03a	5371	18-12	1725	Tue	Polish intel.	BPSK-63	(AB)
P03a	5371	18-12	1730	Tue	Polish intel.	BPSK-63	(AB)
P03a	10487	19-12	1225	Wed	Polish intel.	BPSK-63	(AB)
P03a	10487	19-12	1230	Wed	Polish intel.	BPSK-63	(AB)
P03a	6986	19-12	1435	Wed	Polish intel.	BPSK-63	(AB)
P03a	6986	19-12	1440	Wed	Polish intel.	BPSK-63	(AB)
P03a	14795	19-12	1600	Wed	Polish intel.	BPSK-63	(AB)
P03a	14795	19-12	1605	Wed	Polish intel.	BPSK-63	(AB)
P03a	15905	20-12	1415	Thu	Polish intel.	BPSK-63	(AB)
P03a	15905	20-12	1420	Thu	Polish intel.	BPSK-63	(AB)
P03a	16112	21-12	1440	Fri	Polish intel.	BPSK-63	(AB)
P03a	16112	21-12	1445	Fri	Polish intel.	BPSK-63	(AB)
P03a	8680	21-12	1500	Fri	Polish intel.	BPSK-63	(AB)
P03a	11100	21-12	1635	Fri	Polish intel.	BPSK-63	(AB)
P03a	11100	21-12	1640	Fri	Polish intel.	BPSK-63	(AB)
P03a	16335	22-12	1140	Sat	Polish intel.	BPSK-63	(AB)
P03a	16335	22-12	1145	Sat	Polish intel.	BPSK-63	(AB)
P03a	10487	22-12	1225	Sat	Polish intel.	BPSK-63	(AB)
P03a	10487	22-12	1230	Sat	Polish intel.	BPSK-63	(AB)
P03a	6986	22-12	1435	Sat	Polish intel.	BPSK-63	(AB)
P03a	6986	22-12	1440	Sat	Polish intel.	BPSK-63	(AB)
P03a	5371	23-12	1725	Sun	Polish intel.	BPSK-63	(AB/MPJ)
P03a	5371	23-12	1730	Sun	Polish intel.	BPSK-63	(AB)
P03a	10487	26-12	1225	Wed	Polish intel.	BPSK-63	(AB)
P03a	10487	26-12	1230	Wed	Polish intel.	BPSK-63	(AB)
P03a	6986	26-12	1435	Wed	Polish intel.	BPSK-63	(AB)
P03a	6986	26-12	1440	Wed	Polish intel.	BPSK-63	(AB)
P03a	14795	26-12	1600	Wed	Polish intel.	BPSK-63	(AB)
P03a	14795	26-12	1605	Wed	Polish intel.	BPSK-63	(AB)

P03a	16112	28-12	1440	Fri	Polish intel.	BPSK-63	(AB)
P03a	16112	28-12	1445	Fri	Polish intel.	BPSK-63	(AB)
P03a	8680	28-12	1500	Fri	Polish intel.	BPSK-63	(AB)
P03a	11100	28-12	1635	Fri	Polish intel.	BPSK-63	(AB)
P03a	11100	28-12	1640	Fri	Polish intel.	BPSK-63	(AB)
P03a	16335	29-12	1140	Sat	Polish intel.	BPSK-63	(AB)
P03a	16335	29-12	1145	Sat	Polish intel.	BPSK-63	(AB)
P03a	10487	29-12	1225	Sat	Polish intel.	BPSK-63	(AB)
P03a	10487	29-12	1230	Sat	Polish intel.	BPSK-63	(AB)
P03a	6986	29-12	1435	Sat	Polish intel.	BPSK-63	(AB)
P03a	6986	29-12	1440	Sat	Polish intel.	BPSK-63	(AB)
P03a	16112	30-12	1440	Sun	Polish intel.	BPSK-63	(AB)
P03a	16112	30-12	1445	Sun	Polish intel.	BPSK-63	(AB)
P03a	8680	30-12	1500	Sun	Polish intel.	BPSK-63	(AB)
P03a	5371	30-12	1725	Sun	Polish intel.	BPSK-63	(AB)
P03a	5371	30-12	1730	Sun	Polish intel.	BPSK-63	(AB)
P03b	7317	1-12	0610	Sat	Polish intel.	QPSK-63	(AB)
P03b	7317	1-12	0615	Sat	Polish intel.	QPSK-63	(AB)
P03b	10800	5-12	1120	Wed	Polish intel.	QPSK-63	(AB)
P03b	10800	5-12	1125	Wed	Polish intel.	QPSK-63	(AB)
P03b	4840	5-12	2035	Wed	Polish intel.	QPSK-63	(AB)
P03b	4840	5-12	2040	Wed	Polish intel.	QPSK-63	(AB)
P03b	4840	7-12	2035	Fri	Polish intel.	QPSK-63	(AB)
P03b	4840	7-12	2040	Fri	Polish intel.	QPSK-63	(AB)
P03b	7317	8-12	0610	Sat	Polish intel.	QPSK-63	(AB)
P03b	7317	8-12	0615	Sat	Polish intel.	QPSK-63	(AB)
P03b	10800	9-12	1120	Sun	Polish intel.	QPSK-63	(AB)
P03b	10800	9-12	1125	Sun	Polish intel.	QPSK-63	(AB)
P03b	10800	12-12	1120	Wed	Polish intel.	QPSK-63	(AB)
P03b	10800	12-12	1125	Wed	Polish intel.	QPSK-63	(AB)
P03b	4840	12-12	2035	Wed	Polish intel.	QPSK-63	(AB)
P03b	4840	12-12	2040	Wed	Polish intel.	QPSK-63	(AB)
P03b	4840	14-12	2035	Fri	Polish intel.	QPSK-63	(AB)
P03b	4840	14-12	2040	Fri	Polish intel.	QPSK-63	(AB)
P03b	7317	15-12	0610	Sat	Polish intel.	QPSK-63	(AB)
P03b	7317	15-12	0615	Sat	Polish intel.	QPSK-63	(AB)
P03b	10800	19-12	1120	Wed	Polish intel.	QPSK-63	(AB)
P03b	10800	19-12	1125	Wed	Polish intel.	QPSK-63	(AB)
P03b	4840	19-12	2035	Wed	Polish intel.	QPSK-63	(AB)

P03b	4840	19-12	2040	Wed	Polish intel.	QPSK-63	(AB)
P03b	4840	21-12	2035	Fri	Polish intel.	QPSK-63	(AB)
P03b	4840	21-12	2040	Fri	Polish intel.	QPSK-63	(AB)
P03b	5371	22-12	0500	Sat	Polish intel.	QPSK-63	(AB)
P03b	5371	22-12	0505	Sat	Polish intel.	QPSK-63	(AB)
P03b	7317	22-12	0610	Sat	Polish intel.	QPSK-63	(AB)
P03b	7317	22-12	0615	Sat	Polish intel.	QPSK-63	(AB)
P03b	5371	23-12	0500	Sun	Polish intel.	QPSK-63	(AB)
P03b	5371	23-12	0505	Sun	Polish intel.	QPSK-63	(AB)
P03b	10800	26-12	1120	Wed	Polish intel.	QPSK-63	(AB)
P03b	10800	26-12	1125	Wed	Polish intel.	QPSK-63	(AB)
P03b	4840	26-12	2035	Wed	Polish intel.	QPSK-63	(AB)
P03b	4840	26-12	2040	Wed	Polish intel.	QPSK-63	(AB)
P03b	4840	28-12	2035	Fri	Polish intel.	QPSK-63	(AB)
P03b	4840	28-12	2040	Fri	Polish intel.	QPSK-63	(AB)
P03b	5371	29-12	0500	Sat	Polish intel.	QPSK-63	(AB)
P03b	5371	29-12	0505	Sat	Polish intel.	QPSK-63	(AB)
P03b	7317	29-12	0610	Sat	Polish intel.	QPSK-63	(AB)
P03b	7317	29-12	0615	Sat	Polish intel.	QPSK-63	(AB)
P03b	7317	30-12	0610	Sun	Polish intel.	QPSK-63	(AB)
P03b	7317	30-12	0615	Sun	Polish intel.	QPSK-63	(AB)
P03b	10800	30-12	1120	Sun	Polish intel.	QPSK-63	(AB)
P03b	10800	30-12	1125	Sun	Polish intel.	QPSK-63	(AB)
POL	8800	3-12	1000	Mon	Polish Intel.	BFSK 400/800	(AB)
POL	8800	3-12	1005	Mon	Polish Intel.	BFSK 400/800	(AB)
POL	8180	5-12	0950	Wed	Polish intel.	FSK-4 100Bd	(AB)
POL	8180	5-12	0955	Wed	Polish intel.	FSK-4 100Bd	(AB)
POL	8800	10-12	1000	Mon	Polish Intel.	BFSK 400/800	(AB)
POL	8800	10-12	1005	Mon	Polish Intel.	BFSK 400/800	(AB)
POL	8180	12-12	0950	Wed	Polish intel.	FSK-4 100Bd	(AB)
POL	8180	12-12	0955	Wed	Polish intel.	FSK-4 100Bd	(AB)
POL	8800	17-12	1000	Mon	Polish Intel.	BFSK 400/800	(AB)
POL	8800	17-12	1005	Mon	Polish Intel.	BFSK 400/800	(AB)
POL	8180	19-12	0950	Wed	Polish intel.	FSK-4 100Bd	(AB)
POL	8180	19-12	0955	Wed	Polish intel.	FSK-4 100Bd	(AB)
POL	8800	24-12	1000	Mon	Polish Intel.	BFSK 400/800	(AB)
POL	8800	24-12	1005	Mon	Polish Intel.	BFSK 400/800	(AB)
POL	8180	26-12	0950	Wed	Polish intel.	FSK-4 100Bd	(AB)
POL	8180	26-12	0955	Wed	Polish intel.	FSK-4 100Bd	(AB)

POL	8800	31-12	1000	Mon	Polish Intel.	BFSK 400/800	(AB)
POL	8800	31-12	1005	Mon	Polish Intel.	BFSK 400/800	(AB)
Q26	8073	9-12	1131	Sun	Messages	4+4 QPSK 75/3000 LSB	(JPL)
Q26	8073	10-12	1134	Mon	Messages	4+4 QPSK 75/3000 LSB	(JPL)
S06	3897	1-12	2000	Sat	263 263 263 00000	USB	(AB/MPJ)
S06	15721	3-12	0400	Mon	480 735 735 60 60 message 735 735 60 60 00000	USB	(BW3-KOR)
S06	7523	7-12	1900	Fri	483 483 483 00000	USB	(AB/MPJ-AUT)
S06	5305	7-12	2000	Fri	483 483 483 00000	USB	(AB/RL-HOL)
S06	3897	15-12	2000	Sat	263 263 263 00000	USB	(MPJ/AnEur)
S06	3317	15-12	2100	Sat	263 263 263 00000	USB	(AnEur)
S06	15721	18-12	0400	Tue	480 ??? 30 ...	USB	(BW3-HOL)
S06	15721	20-12	0400	Thu	480 via KiwiSDR RUS	USB	(HFD-RUS)
S06	17435	20-12	0830	Thu	842 ... (unreadable)	USB	(AB)
S06	7523	21-12	1900	Fri	483 483 483 00000	USB	(HFD)
S06	5305	21-12	2000	Fri	483 483 483 00000	USB	(AB/MPJ/HFD)
S06c	6810	17-12	1836	Mon	i.p. 11025 (R)	USB	(AB)
S06s	8680	1-12	0800	Sat	254 809 6 25163 57057 48288 02507 53571 37181 809 6 00000	USB	(AB)
S06s	8260	1-12	0810	Sat	254 809 6 25163 57057 48288 02507 53571 37181 809 6 00000	USB	(AB)
S06s	13470	3-12	0630	Mon	524 978 6 37137 31405 45454 33690 39883 32537 978 6 00000	USB	(AB)
S06s	16515	3-12	0640	Mon	524 978 6 37137 31405 45454 33690 39883 32537 978 6 00000	USB	(AB-UKR)
S06s	8057	3-12	0830	Mon	371 924 5 76148 25163 22415 25821 73717 924 5 00000	USB	(AB)
S06s	8530	3-12	0840	Mon	371 924 5 76148 25163 22415 25821 73717 924 5 00000	USB	(AB)
S06s	14675	3-12	0900	Mon	872 946 5 39544 64372 13078 10914 84612 946 5 00000	USB	(AB-ROU)
S06s	12830	3-12	0910	Mon	872 946 5 39544 64372 13078 10914 84612 946 5 00000	USB	(AB)
S06s	8420	3-12	1300	Mon	831 207 5 83208 37829 47458 42867 39654 207 5 00000	USB	(AB/MPJ)
S06s	10635	3-12	1310	Mon	831 207 5 83208 37829 47458 42867 39654 207 5 00000	USB	(AB/MPJ)
S06s	5250	4-12	0700	Tue	374 826 5 42069 30913 32098 31335 35931 826 5 00000	USB	(AB)
S06s	6320	4-12	0715	Tue	374 826 5 42069 30913 32098 31335 35931 826 5 00000	USB	(AB)
S06s	7410	4-12	0730	Tue	427 913 5 39534 17228 15636 47891 23247 913 5 00000	USB	(AB)
S06s	11532	4-12	0740	Tue	427 913 5 39534 17228 15636 47891 23247 913 5 00000	USB	(AB)
S06s	11945	4-12	0800	Tue	352 419 6 40614 77249 40678 17976 21816 42997 419 6 00000	USB	(AB)
S06s	13195	4-12	0810	Tue	352 419 6 40614 77249 40678 17976 21816 42997 419 6 00000	USB	(AB)
S06s	6440	4-12	1000	Tue	893 410 5 88620 58069 6 1732 74537 57440 410 5 00000	USB	(AB)
S06s	5660	4-12	1010	Tue	893 410 5 88620 58069 61732 74537 57440 410 5 00000	USB	(AB)
S06s	5035	4-12	1100	Tue	754 913 6 52401 63919 92699 14600 74238 48754 913 6 00000	USB	(MPJ)
S06s	5975	4-12	1110	Tue	754 913 6 52401 63919 92699 14600 74238 48754 913 6 00000	USB	(MPJ)
S06s	6845	4-12	1500	Tue	537 249 6 46062 68672 97478 30785 30485 96632 249 6 00000	USB	(AB/MPJ)
S06s	9170	4-12	1510	Tue	537 249 6 46062 68672 97478 30785 30485 96632 249 6 00000	USB	(AB/MPJ)
S06s	8417	5-12	0820	Wed	471 986 5 95834 27641 00285 38299 12095 986 5 00000	USB	(AB)

S06s	7062	5-12	0830	Wed	464 250 7 86733 92250 46291 10164 99728 77053 61927 250 7 00000	USB	(AB)
S06s	9262	5-12	0830	Wed	471 986 5 95834 27641 00285 38299 12095 986 5 00000	USB	(AB)
S06s	11535	5-12	0830	Wed	745 936 8 87378 30647 31464 30750 42433 35630 47392 47956 936 8 00000	USB	(AB)
S06s	10532	5-12	0840	Wed	464 250 7 86733 92250 46291 10164 99728 77053 61927 250 7 00000	USB	(AB)
S06s	11830	5-12	0840	Wed	745 936 8 87378 30647 31464 30750 42433 35630 47392 47956 936 8 00000	USB	(AB)
S06s	12365	5-12	1000	Wed	729 415 6 11744 92460 28274 13509 42755 28611 415 6 00000	USB	(AB)
S06s	14280	5-12	1010	Wed	729 415 6 11744 92460 28274 13509 42755 28611 415 6 00000	USB	(AB)
S06s	8812	6-12	0930	Thu	314 802 5 31896 36053 33779 32814 47565 802 5 00000	USB	(AB)
S06s	9540	6-12	0940	Thu	314 802 5 31896 36053 33779 32814 47565 802 5 00000	USB	(AB)
S06s	12155	6-12	1200	Thu	425 970 6 36850 39818 38792 30187 30568 32154 970 6 00000	USB	(AB/MPJ)
S06s	10920	6-12	1210	Thu	425 970 6 36850 39818 38792 30187 30568 32154 970 6 00000	USB	(AB/MPJ)
S06s	5765	7-12	0900	Fri	624 off after 1 minute and back at 0902z: 624 839 5 42387 44142 30698 33104 31985 839 5 00000	USB	(AB)
S06s	6315	7-12	0910	Fri	624 839 5 42387 44142 30698 33104 31985 839 5 00000	USB	(AB)
S06s	11780	7-12	0930	Fri	516 209 7 34203 80585 53623 02508 34465 29833 44420 209 7 00000	USB	(AB)
S06s	12570	7-12	0940	Fri	516 209 7 34203 80585 53623 02508 34465 29833 44420 209 7 00000	USB	(AB)
S06s	13470	10-12	0730	Mon	524 978 6 37137 31405 45454 33690 39883 32537 978 6 00000	USB	(AB)
S06s	16515	10-12	0740	Mon	524 978 6 37137 31405 45454 33690 39883 32537 978 6 00000	USB	(AB-UKR)
S06s	8057	10-12	0830	Mon	371 924 5 76148 25163 22415 25821 73717 924 5 00000	USB	(AB)
S06s	8530	10-12	0840	Mon	371 924 5 76148 25163 22415 25821 73717 924 5 00000	USB	(AB)
S06s	14675	10-12	0900	Mon	872 946 5 39544 64372 13078 10914 84612 946 5 00000	USB	(AB-AUT)
S06s	12830	10-12	0910	Mon	872 946 5 39544 64372 13078 10914 84612 946 5 00000	USB	(AB-AUT)
S06s	8420	10-12	1300	Mon	831 207 5 83208 37829 47458 42867 39654 207 5 00000	USB	(AB/MPJ)
S06s	10635	10-12	1310	Mon	831 207 5 83208 37829 47458 42867 39654 207 5 00000	USB	(AB/MPJ)
S06s	5250	11-12	0700	Tue	374 826 5 42069 30913 32098 31335 35931 826 5 00000	USB	(AB)
S06s	6320	11-12	0715	Tue	374 826 5 42069 30913 32098 31335 35931 826 5 00000	USB	(AB)
S06s	7410	11-12	0730	Tue	427 913 5 39534 17228 15636 47891 23247 913 5 00000	USB	(AB)
S06s	11532	11-12	0740	Tue	427 913 5 39534 17228 15636 47891 23247 913 5 00000	USB	(AB)
S06s	11945	11-12	0800	Tue	352 419 6 40614 77249 40678 17976 21816 42997 419 6 00000	USB	(AB)
S06s	13195	11-12	0810	Tue	352 419 6 40614 77249 40678 17976 21816 42997 419 6 00000	USB	(AB)
S06s	6440	11-12	1000	Tue	893 410 5 88620 58069 6 1732 74537 57440 410 5 00000	USB	(AB)
S06s	5660	11-12	1010	Tue	893 410 5 88620 58069 61732 74537 57440 410 5 00000	USB	(AB)
S06s	5035	11-12	1100	Tue	754 913 6 52401 63919 92699 14600 74238 48754 913 6 00000	USB	(AB-POL/MPJ)
S06s	5975	11-12	1110	Tue	754 913 6 52401 63919 92699 14600 74238 48754 913 6 00000	USB	(AB-POL/MPJ)
S06s	6845	11-12	1500	Tue	537 249 6 46062 68672 97478 30785 30485 96632 249 6 00000	USB	(AB/MPJ)
S06s	9170	11-12	1510	Tue	537 249 6 46062 68672 97478 30785 30485 96632 249 6 00000	USB	(AB/MPJ/RL-HOL)
S06s	8417	12-12	0820	Wed	471 986 5 95834 27641 00285 38299 12095 986 5 00000	USB	(AB)
S06s	7062	12-12	0830	Wed	464 250 7 86733 92250 46291 10164 99728 77053 61927 250 7 00000	USB	(AB)
S06s	9262	12-12	0830	Wed	471 986 5 95834 27641 00285 38299 12095 986 5 00000	USB	(AB)

S06s	11535	12-12	0830	Wed	745 936 8 87378 30647 31464 30750 42433 35630 47392 47956 936 8 00000	USB	(AB)
S06s	10532	12-12	0840	Wed	464 250 7 86733 92250 46291 10164 99728 77053 61927 250 7 00000	USB	(AB)
S06s	11830	12-12	0840	Wed	745 936 8 87378 30647 31464 30750 42433 35630 47392 47956 936 8 00000	USB	(AB)
S06s	12365	12-12	1000	Wed	729 415 6 11744 92460 28274 13509 42755 28611 415 6 00000	USB	(AB)
S06s	14280	12-12	1010	Wed	729 415 6 11744 92460 28274 13509 42755 28611 415 6 00000	USB	(AB)
S06s	8812	13-12	0930	Thu	314 802 5 31896 36053 33779 32814 47565 802 5 00000	USB	(AB)
S06s	9540	13-12	0940	Thu	314 802 5 31896 36053 33779 32814 47565 802 5 00000	USB	(AB)
S06s	12155	13-12	1200	Thu	425 970 6 36850 39818 38792 30187 30568 32154 970 6 00000	USB	(AB/MPJ)
S06s	10920	13-12	1210	Thu	425 970 6 36850 39818 38792 30187 30568 32154 970 6 00000	USB	(AB/MPJ)
S06s	5765	14-12	0900	Fri	624 839 5 42387 44142 30698 33104 31985 839 5 00000	USB	(AB)
S06s	6315	14-12	0910	Fri	624 839 5 42387 44142 30698 33104 31985 839 5 00000	USB	(AB)
S06s	11780	14-12	0930	Fri	516 209 7 34203 80585 53623 02508 34465 29833 44420 209 7 00000	USB	(AB)
S06s	12570	14-12	0940	Fri	516 209 7 34203 80585 53623 02508 34465 29833 44420 209 7 00000	USB	(AB/RL-HOL)
S06s	13470	17-12	0630	Mon	524 813 6 87378 30647 31464 40750 42433 35630 813 6 00000	USB	(AB)
S06s	16515	17-12	0640	Mon	524 813 6 87378 30647 31464 40750 42433 35630 813 6 00000	USB	(AB-UKR)
S06s	8057	17-12	0830	Mon	371 952 6 64807 91035 19998 59022 93873 67105 952 6 00000	USB	(AB)
S06s	8530	17-12	0840	Mon	371 952 6 64807 91035 19998 59022 93873 67105 952 6 00000	USB	(AB)
S06s	14675	17-12	0900	Mon	872 931 5 14415 76950 70886 41267 71182 931 5 00000	USB	(AB-AUT)
S06s	12830	17-12	0910	Mon	872 931 5 14415 76950 70886 41267 71182 931 5 00000	USB	(AB-AUT)
S06s	8420	17-12	1300	Mon	831 946 5 56381 88266 93717 31318 99550 946 5 00000	USB	(AB/MPJ)
S06s	10635	17-12	1310	Mon	831 946 5 56381 88266 93717 31318 99550 946 5 00000	USB	(AB/MPJ/RL-HOL)
S06s	5250	18-12	0700	Tue	374 516 8 41034 39699 48769 45522 34919 30123 44131 42614 516 8 00000	USB	(AB)
S06s	6320	18-12	0715	Tue	374 516 8 41034 39699 48769 45522 34919 30123 44131 42614 516 8 00000	USB	(AB)
S06s	7410	18-12	0730	Tue	427 835 6 87378 30647 31464 40750 42433 37392 835 6 00000	USB	(AB)
S06s	11532	18-12	0740	Tue	427 835 6 87378 30647 31464 40750 42433 37392 835 6 00000	USB	(AB)
S06s	11945	18-12	0800	Tue	352 890 6 31101 37931 35379 35372 36941 40140 890 6 00000	USB	(AB)
S06s	13195	18-12	0810	Tue	352 890 6 31101 37931 35379 35372 36941 40140 890 6 00000	USB	(AB)
S06s	6440	18-12	1000	Tue	893 504 6 83208 37829 47458 42867 39674 42387 504 6 00000	USB	(AB)
S06s	5660	18-12	1010	Tue	893 504 6 83208 37829 47458 42867 39674 42387 504 6 00000	USB	(AB)
S06s	5035	18-12	1100	Tue	754 932 6 35131 84430 39244 36860 39818 38792 932 6 00000	USB	(AB-POL)
S06s	5975	18-12	1110	Tue	754 932 6 35131 84430 39244 36860 39818 38792 932 6 00000	USB	(AB-POL)
S06s	6845	18-12	1500	Tue	537 981 6 90406 36113 31107 37806 37137 31405 981 6 00000	USB	(AB)
S06s	9170	18-12	1510	Tue	537 981 6 90406 36113 31107 37806 37137 31405 981 6 00000	USB	(AB/MPJ-CZE)
S06s	8417	19-12	0820	Wed	471 862 5 31896 36053 33669 36946 31568 862 5 00000	USB	(AB)
S06s	7062	19-12	0830	Wed	464 983 5 34931 35379 35372 36941 40140 983 5 00000	USB	(AB)
S06s	9262	19-12	0830	Wed	471 862 5 31896 36053 33669 36946 31568 862 5 00000	USB	(AB)
S06s	11535	19-12	0830	Wed	745 291 6 39654 42387 44142 30698 33104 31985 291 00000	USB	(AB)
S06s	10532	19-12	0840	Wed	464 983 5 34931 35379 35372 36941 40140 983 5 00000	USB	(AB)
S06s	11830	19-12	0840	Wed	745 291 6 39654 42387 44142 30698 33104 31985 291 00000	USB	(AB)

S06s	12365	19-12	1000	Wed	729 510 6 44365 43028 33642 36688 32805 37450 510 6 00000	USB	(AB)
S06s	14280	19-12	1010	Wed	729 510 6 44365 43028 33642 36688 32805 37450 510 6 00000	USB	(AB)
S06s	8812	20-12	0930	Thu	314 280 5 90406 36113 31107 37806 37137 280 5 00000	USB	(AB)
S06s	9540	20-12	0940	Thu	314 280 5 90406 36113 31107 37806 37137 280 5 00000	USB	(AB)
S06s	12155	20-12	1200	Thu	425 831 6 87378 30647 31464 40750 42433 35630 831 6 00000	USB	(AB/MPJ)
S06s	10920	20-12	1210	Thu	425 831 6 87378 30647 31464 40750 42433 35630 831 6 00000	USB	(AB/MPJ)
S06s	5765	21-12	0900	Fri	624 893 5 78553 96624 19963 24307 64642 893 5 00000	USB	(AB)
S06s	6315	21-12	0910	Fri	624 893 5 78553 96624 19963 24307 64642 893 5 00000	USB	(AB)
S06s	11780	21-12	0930	Fri	516 827 9 49153 48563 38083 35431 53538 60988 00987 69932 41322 827 9 00000	USB	(AB)
S06s	12570	21-12	0940	Fri	516 827 9 49153 48563 38083 35431 53538 60988 00987 69932 41322 827 9 00000	USB	(AB)
S06s	13470	24-12	0630	Mon	524 813 6 87378 30647 31464 40750 42433 35630 813 6 00000	USB	(AB-AUT)
S06s	16515	24-12	0640	Mon	524 813 6 87378 30647 31464 40750 42433 35630 813 6 00000	USB	(AB-UKR)
S06s	8057	24-12	0830	Mon	371 952 6 64807 91035 19998 59022 93873 67105 952 6 00000	USB	(AB)
S06s	8530	24-12	0840	Mon	371 952 6 64807 91035 19998 59022 93873 67105 952 6 00000	USB	(AB)
S06s	14675	24-12	0900	Mon	872 931 5 14415 76950 70886 41267 71182 931 5 00000	USB	(AB)
S06s	12830	24-12	0910	Mon	872 931 5 14415 76950 70886 41267 71182 931 5 00000	USB	(AB)
S06s	8420	24-12	1300	Mon	831 946 5 56381 88266 93717 31318 99550 946 5 00000	USB	(AB)
S06s	10635	24-12	1310	Mon	831 946 5 56381 88266 93717 31318 99550 946 5 00000	USB	(AB)
S06s	5250	25-12	0700	Tue	374 516 8 41034 39699 48769 45522 34919 30123 44131 42614 516 8 00000	USB	(AB)
S06s	6320	25-12	0715	Tue	374 516 8 41034 39699 48769 45522 34919 30123 44131 42614 516 8 00000	USB	(AB)
S06s	7410	25-12	0730	Tue	427 835 6 87378 30647 31464 40750 42433 37392 835 6 00000	USB	(AB)
S06s	11532	25-12	0740	Tue	427 835 6 87378 30647 31464 40750 42433 37392 835 6 00000	USB	(AB)
S06s	11945	25-12	0800	Tue	352 890 6 31101 37931 35379 35372 36941 40140 890 6 00000	USB	(AB)
S06s	13195	25-12	0810	Tue	352 890 6 31101 37931 35379 35372 36941 40140 890 6 00000	USB	(AB-AUT)
S06s	6440	25-12	1000	Tue	893 504 6 83208 37829 47458 42867 39674 42387 504 6 00000	USB	(AB)
S06s	5660	25-12	1010	Tue	893 504 6 83208 37829 47458 42867 39674 42387 504 6 00000	USB	(AB)
S06s	8417	26-12	0820	Wed	471 862 5 31896 36053 33669 36946 31568 862 5 00000	USB	(AB)
S06s	7062	26-12	0830	Wed	464 983 5 34931 35379 35372 36941 40140 983 5 00000	USB	(AB)
S06s	9262	26-12	0830	Wed	471 862 5 31896 36053 33669 36946 31568 862 5 00000	USB	(AB)
S06s	11535	26-12	0830	Wed	745 291 6 39654 42387 44142 30698 33104 31985 291 00000	USB	(AB)
S06s	10532	26-12	0840	Wed	464 983 5 34931 35379 35372 36941 40140 983 5 00000	USB	(AB)
S06s	11830	26-12	0840	Wed	745 291 6 39654 42387 44142 30698 33104 31985 291 00000	USB	(AB)
S06s	12365	26-12	1000	Wed	729 510 6 44365 43028 33642 36688 32805 37450 510 6 00000	USB	(AB)
S06s	14280	26-12	1010	Wed	729 510 6 44365 43028 33642 36688 32805 37450 510 6 00000	USB	(AB)
S06s	8812	27-12	0930	Thu	314 280 5 90406 36113 31107 37806 37137 280 5 00000	USB	(AB)
S06s	9540	27-12	0940	Thu	314 280 5 90406 36113 31107 37806 37137 280 5 00000	USB	(AB)
S06s	12155	27-12	1200	Thu	425 831 6 87378 30647 31464 40750 42433 35630 831 6 00000	USB	(AB)
S06s	10920	27-12	1210	Thu	425 831 6 87378 30647 31464 40750 42433 35630 831 6 00000	USB	(AB)
S06s	5765	28-12	0900	Fri	624 893 5 78553 96624 19963 24307 64642 893 5 00000	USB	(AB)

S06s	6315	28-12	0910	Fri	624 893 5 78553 96624 19963 24307 64642 893 5 00000	USB	(AB)
S06s	11780	28-12	0930	Fri	516 827 9 49153 48563 38083 35431 53538 60988 00987 69932 41322 827 9 00000	USB	(AB)
S06s	12570	28-12	0940	Fri	516 827 9 49153 48563 38083 35431 53538 60988 00987 69932 41322 827 9 00000	USB	(AB)
S06s	13470	31-12	0630	Mon	524 524 524 00000	USB	(AB-AUT)
S06s	16515	31-12	0640	Mon	524 524 524 00000	USB	(AB-AUT)
S06s	8057	31-12	0830	Mon	371 371 371 00000	USB	(AB)
S06s	8530	31-12	0840	Mon	371 371 371 00000	USB	(AB)
S06s	14675	31-12	0900	Mon	872 872 872 00000	USB	(AB)
S06s	12830	31-12	0910	Mon	872 872 872 00000	USB	(AB)
S06s	8420	31-12	1300	Mon	831 831 831 00000	USB	(AB/MPJ)
S06s	10635	31-12	1310	Mon	831 831 831 00000	USB	(AB/MPJ)
S11a	10728	1-12	1540	Sat	567/00	USB	(AB/MPJ-GRC)
S11a	11486	1-12	1850	Sat	287/00 ???	USB	(AB)
S11a	11559	3-12	1015	Mon	476/00	USB	(AB)
S11a	14753	4-12	0735	Tue	380/00	USB	(AB-CZE)
S11a	7600	4-12	1020	Tue	424/00	USB	(AB)
S11a	10728	5-12	1540	Wed	563/00	USB	(AB/MPJ)
S11a	11486	5-12	1850	Wed	285/00	USB	(AB/MPJ)
S11a	5815	5-12	1955	Wed	373/33 Vnimanye 07072 53511 67451 ... 50836 01487 33765 Vnimanye (message repeated) Konets	USB	(MPJ)
S11a	11559	6-12	1015	Thu	476/00	USB	(AB)
S11a	4828	7-12	0455	Fri	329/00	USB	(AB)
S11a	7600	7-12	1020	Fri	425/00	USB	(AB)
S11a	5815	7-12	1955	Fri	373/33 Vnimanye 07072 53511 67451 ... 50836 01487 33765 Vnimanye (message repeated) Konets	USB	(AB/MPJ)
S11a	10728	8-12	1540	Sat	561/00	USB	(MPJ)
S11a	11486	8-12	1850	Sat	285/00	USB	(MPJ-AUT)
S11a	11559	10-12	1015	Mon	477/00	USB	(AB)
S11a	14753	11-12	0735	Tue	389/40 Vnimaniye 00022 07009 74976 ... 59327 69124 74773 Vnimaniye (message repeated) Konets	USB	(AB-GRC)
S11a	7600	11-12	1020	Tue	422/00	USB	(AB)
S11a	10728	12-12	1540	Wed	569/00	USB	(AB/RL-HOL)
S11a	11486	12-12	1850	Wed	286/00	USB	(AB/RL-HOL/MPJ)
S11a	5815	12-12	1955	Wed	373/00	USB	(AB/BW3-HOL)
S11a	14753	13-12	0735	Thu	389/40 Vnimaniye 00022 07009 74976 ... 59327 69124 74773 Vnimaniye (message repeated) Konets	USB	(AB-GRC)
S11a	11559	13-12	1015	Thu	474/00	USB	(AB)
S11a	7600	14-12	1020	Fri	425/00	USB	(AB)
S11a	5815	14-12	1955	Fri	371/00	USB	(AB/MPJ/RL-HOL)

S11a	10728	15-12	1540	Sat	566/00	USB	(MPJ-I)
S11a	11486	15-12	1850	Sat	285/00	USB	(MPJ-AUT)
S11a	11559	17-12	1015	Mon	475/00	USB	(AB)
S11a	4828	18-12	0455	Tue	328/00	USB	(AB)
S11a	7600	18-12	1020	Tue	422/00	USB	(AB)
S11a	10728	19-12	1540	Wed	563/00	USB	(AB/RL-HOL/MPJ/BW3-D)
S11a	11486	19-12	1850	Wed	286/00	USB	(AB/MPJ)
S11a	5815	19-12	1955	Wed	379/00	USB	(AB/GHn)
S11a	14753	20-12	0735	Thu	382/00	USB	(AB-CZE)
S11a	11559	20-12	1015	Thu	470/00	USB	(AB)
S11a	4828	21-12	0455	Fri	320/00	USB	(AB-POL)
S11a	7600	21-12	1020	Fri	420/00	USB	(AB)
S11a	5815	21-12	1955	Fri	376/00	USB	(AB/MPJ)
S11a	10728	22-12	1540	Sat	563/00	USB	(MPJ)
S11a	11559	24-12	1015	Mon	470/35 Vnimanije 53610 30362 14984 ... 27798 18732 28031 Vnimanije (message repeated) Konets	USB	(AB)
S11a	4828	25-12	0455	Tue	328/00	USB	(AB)
S11a	10728	26-12	1540	Wed	564/33 Vnimanije 96479 48641 80182 ... 19055 48457 35169 Vnimanije (message repeated) Konets	USB	(AB)
S11a	11486	26-12	1850	Wed	282/39 Vnimanije 51157 30990 81274 ... 09628 26502 93358 Vnimanije (message repeated) Konets	USB	(AB)
S11a	5815	26-12	1955	Wed	371/00	USB	(AB)
S11a	14753	27-12	0735	Thu	382/00	USB	(AB-AUT)
S11a	11559	27-12	1015	Thu	470/35 Vnimanije 53610 30362 14984 ... 27798 18732 28031 Vnimanije (message repeated) Konets	USB	(AB)
S11a	4828	28-12	0455	Fri	325/00	USB	(AB)
S11a	7600	28-12	1020	Fri	422/40 Vnimanije 36865 38789 83451 ... 33238 57838 56834 Vnimanije (message repeated) Konets	USB	(AB)
S11a	5815	28-12	1955	Fri	379/00	USB	(AB/MPJ)
S11a	11486	29-12	1850	Sat	282/39 Vnimanije 51157 30990 81274 ... 09628 26502 93358 Vnimanije (message repeated) Konets	USB	(MPJ-I)
S11a	11559	31-12	1015	Mon	478/00	USB	(AB)
S30	3756	19-12	1545	Wed	KZI' TSHCHSHCHS VKY1 KH5LF 61KHZH ZBIL L7O5 V'Z' NLTSE LI27 Kak slyshno? Kak slyshno? Priyom	USB	(Priyom)
S30	3756	19-12	1607	Wed	8S1Shch 49599 NYaGAN' 8089 4167	USB	(GWr)
S30	3756	20-12	1550	Thu	Dlya DEAY YKH'Y 12TSI 79AY SHCHT3O TSIKHS Z7PM S7ZHG Z'1B TSI9V Kak slyshno? Kak slyshno? Priyom	USB	(Priyom)
S32	3828	19-12	1612	Wed	Al'fa-45 46529 MARKSISTKA 5849 0017	USB	(GWr)

UM10	3536	1-12	1553	Sat	10-minutes net: ZJL4	CW	(JPL-J)
UM10	3648	1-12	1553	Sat	10-minutes net: OUCH	CW	(JPL-J)
UM10	3206	5-12	1820	Wed	10-minutes net: KTR4 //3865 kHz	CW	(JPL-Sib)
UM10	3865	5-12	1820	Wed	10-minutes net: KTR4 //3206 kHz	CW	(JPL-Sib)
UM10	3238	8-12	1227	Sat	10-minutes net: D6AN	CW	(JPL-Sib)
UM10	3865	8-12	1229	Sat	10-minutes net: KTR4	CW	(JPL-Sib)
UM10	3238	9-12	2250	Sun	10-minutes net: D6AN	CW	(JPL-Sib)
UM10	3206	9-12	2252	Sun	10-minutes net: KTR4 //3865 kHz	CW	(JPL-Sib)
UM10	3865	9-12	2252	Sun	10-minutes net: KTR4 //3206 kHz	CW	(JPL-Sib)
UM10	3206	10-12	1224	Mon	10-minutes net: KTR4 //3865 kHz	CW	(JPL-Sib)
UM10	3865	10-12	1224	Mon	10-minutes net: KTR4 //3206 kHz	CW	(JPL-Sib)
UM10	3238	10-12	1226	Mon	10-minutes net: D6AN //3698 kHz	CW	(JPL-Sib)
UM10	3698	10-12	1226	Mon	10-minutes net: D6AN //3238 kHz	CW	(JPL-Sib)
UM10	3206	10-12	1651	Mon	10-minutes net: KTR4 //3865 kHz	CW	(JPL-Sib)
UM10	3865	10-12	1651	Mon	10-minutes net: KTR4 //3206 kHz	CW	(JPL-Sib)
UM10	5735	22-12	0251	Sat	10-minutes net: L65K //6920 kHz	CW	(JPL)
UM10	6920	22-12	0251	Sat	10-minutes net: L65K //5735 kHz	CW	(JPL)
V07	11594	1-12	0100	Sat	571 571 571 000	USB	(Token)
V07	10794	1-12	0120	Sat	571 571 571 000	USB	(Token)
V07	11594	9-12	0100	Sun	571 571 571 1 9728 43 9728 43 97559 61283 49926 ... 41319 10018 47847 000 000	USB	(RL-J/SDX)
V07	10794	9-12	0120	Sun	571 571 571 1 9728 43 9728 43 97559 61283 49926 ... 41319 10018 47847 000 000	USB	(RL-J/SDX)
V07	10194	9-12	0140	Sun	571 571 571 1 9728 43 9728 43 97559 61283 49926 ... 41319 10018 47847 000 000	USB	(SDX)
V07	11594	16-12	0100	Sun	571 571 571 000	USB	(Dan)
V07	10794	16-12	0120	Sun	571 571 571 000	USB	(Dan/BW3-KOR)
V07	11594	23-12	0100	Sun	571 571 571 1 5689 51 01329 96684 71912 ... 99572 90869 000 000	USB	(Dan/HFD-USA)
V07	10794	23-12	0120	Sun	571 571 571 1 5689 51 01329 96684 71912 ... 99572 90869 000 000	USB	(Dan/HFD-USA)
V07	10194	23-12	0140	Sun	571 571 571 1 5689 51 01329 96684 71912 ... 99572 90869 000 000	USB	(Dan/HFD-USA)
V07	11594	30-12	0100	Sun	571 571 571 000	USB	(Dan)
V07	10794	30-12	0120	Sun	571 571 571 000	USB	(Dan)
V15	657	13-12	1545	Thu	North Korean intelligence via PBS Pyongyang Pansong. Message in Korean on 657//3320//6400 kHz	AM	(AB-J)
V15	3320	13-12	1545	Thu	North Korean intelligence via PBS Pyongyang Pansong. Message in Korean on 657//3320//6400 kHz	AM	(AB-J)
V15	6400	13-12	1545	Thu	North Korean intelligence via PBS Pyongyang Pansong. Message in Korean on 657//3320//6400 kHz	AM	(AB-J/SDX)
V15	657	17-12	1512	Mon	North Korean intelligence via PBS Pyongyang Pansong. Message in Korean	AM	(SDX)
V15	3320	27-12	1545	Thu	North Korean intelligence via PBS Pyongyang Pansong. Message in Korean on 3320//6400 kHz	AM	(SDX/BW3-KOR)
V15	6400	27-12	1545	Thu	North Korean intelligence via PBS Pyongyang Pansong. Message in Korean on 3320//6400 kHz	AM	(SDX/BW3-KOR)
V24	5715	5-12	1500	Wed	Popsong followed by a message in Korean	AM	(SDX)

V24	6215	5-12	1500	Wed	Popsong followed by a message in Korean	AM	(SDX)
V24	6215	7-12	1500	Fri	Popmusic followed by a message in Korean	AM	(AB-J/SDX)
V24	4925	11-12	1430	Tue	Piano music followed by a message in Korean	AM	(AB-J)
V24	5115	11-12	1604	Tue	Message in Korean i.p.	AM	(AB-J)
V24	5115	13-12	1600	Thu	Intro music followed by numbers in Korean	AM	(SDX)
V24	4925	15-12	1403	Sat	Intro piano music followed by numbers in Korean	AM	(SDX)
V24	5900	15-12	1600	Sat	Intro pop song followed by numbers in Korean	AM	(SDX)
V24	5115	16-12	1600	Sun	Intro music followed by numbers in Korean	AM	(SDX)
V24	5900	18-12	1600	Tue	Intro music followed by numbers in Korean	AM	(SDX)
V24	5715	19-12	1500	Wed	Intro music followed by numbers in Korean	AM	(MDK2/SDX)
V24	5715	21-12	1500	Fri	Popsong followed by a message in Korean	AM	(AB-J/SDX)
V24	5900	22-12	1600	Sat	Intro pop song followed by numbers in KK at 1604z, off by 1610z; good copy	AM	(SDX)
V24	4900	23-12	1530	Sun	Intro music folowed by numbers in Korean	AM	(SDX)
V24	4900	25-12	1530	Tue	Intro music folowed by numbers in Korean	AM	(SDX)
V24	5715	26-12	1500	Wed	Intro music folowed by numbers in Korean	AM	(SDX)
V24	4900	26-12	1530	Wed	Intro music folowed by numbers in Korean	AM	(SDX)
V26	8073	9-12	1130	Sun	Voice callup in Chinese. Male operator	USB	(JPL)
V26	4243	9-12	1200	Sun	Messages in Chinese. Female operator	USB	(JPL)
V26	4364	31-12	1212	Mon	Messages in Chinese. Male operator //8073	USB	(JPL)
V26	8073	31-12	1212	Mon	Messages in Chinese. Male operator //4364	USB	(JPL)
V26	4243	31-12	1217	Mon	Messages in Chinese. Female operator	USB	(JPL)
V28	3518	6-12	0811	Thu	Parrot. Messages in Korean.	AM	(HK)
V28	3050	6-12	1300	Thu	Parrot. Messages in Korean.	AM	(HK)
V28	3518	6-12	1300	Thu	Parrot. Messages in Korean.	AM	(HK)
V28	2999	6-12	1301	Thu	Parrot. Messages in Korean. Female and male operators	AM	(HK)
V28	2929	6-12	1303	Thu	Parrot. Messages in Korean.	AM	(HK)
V28	4494	12-12	2201	Wed	Parrot. Messages in Korean. Female operator	AM	(HK)
V28	4626	12-12	2201	Wed	Parrot. Messages in Korean. Female operator	AM	(HK)
V28	5160	12-12	2201	Wed	Parrot. Messages in Korean. Female operator	AM	(HK)
V28	4487	15-12	2200	Sat	Parrot. Messages in Korean	AM	(HK)
V28	4628	15-12	2200	Sat	Parrot. Messages in Korean	AM	(HK)
V28	4974	15-12	2200	Sat	Parrot. Messages in Korean	AM	(HK)
V28	5154	15-12	2200	Sat	Parrot. Messages in Korean	AM	(HK)
V28	5167	22-12	2208	Sat	Parrot. Message in Korean	AM	(Phi)
V28	4494	23-12	2201	Sun	Parrot. Message in Korean	AM	(Phi)
V28	4642.1	23-12	2201	Sun	Parrot. Message in Korean	AM	(Phi)
V28	5165.8	23-12	2201	Sun	Parrot. Message in Korean	AM	(Phi)
V28	4985	24-12	2210	Mon	Parrot. Message in Korean	AM	(Phi)
V28	5155	24-12	2210	Mon	Parrot. Message in Korean	AM	(Phi)

V28	4476	24-12	2212	Mon	Parrot. Message in Korean	AM	(Phi)
V28	4622	24-12	2212	Mon	Parrot. Message in Korean	AM	(Phi)
V28	3049	27-12	1032	Thu	Parrot. Message in Korean. Female and male operators	USB	(HK)
V28	2932	31-12	1300	Mon	Parrot. Messages in Korean.	USB	(HK)
V28	2997	31-12	1300	Mon	Parrot. Messages in Korean.	USB	(HK)
V28	3049	31-12	1300	Mon	Parrot. Messages in Korean.	USB	(HK)
V28	3518	31-12	1300	Mon	Parrot. Messages in Korean.	USB	(HK)
VC01	4684	7-12	1506	Fri	Chinese Robot i.p.	USB	(AB-J)
VC01	6847	10-12	0638	Mon	Chinese Robot i.p.	USB	(AB-J)
VC01	4684	11-12	1442	Tue	Chinese Robot i.p.	USB	(AB-J)
VC01	6847	12-12	2311	Wed	Chinese Robot i.p.	USB	(CM2-HOL)
VC01	6847	13-12	0823	Thu	Chinese Robot i.p.	USB	(AB-J)
VC01	4685	13-12	1733	Thu	Chinese Robot i.p.	USB	(AB-J)
VC01	4684	15-12	2145	Sat	Chinese Robot i.p.	USB	(BW3-KOR)
VC01	4684	20-12	1026	Thu	Chinese Robot i.p.	USB	(AB-J)
VC01	4684	20-12	1550	Thu	Chinese Robot i.p.	USB	(BW3-J)
VC01	4684	22-12	1658	Sat	Chinese Robot i.p.	USB	(BW3-KOR)
X06	11562	17-12	0832	Mon	Sequence: 432516 (Russian embassy Bern)	MFSK-6	(Danix)
X06	16188	18-12	1209	Tue	Sequence: 325614	MFSK-6	(Danix)
X06	7833	28-12	1030	Fri	Sequence: 256134 (Russian embassy Abidjan)	MFSK-6	(JS3)
X06b	13538	9-12	1200	Sun	Sequence: 111666 before XPA2	MFSK-6	(Dan)
X06b	14538	9-12	1210	Sun	Sequence: 111666 before XPA2	MFSK-6	(Dan)
X06b	12217	14-12	1314	Fri	Sequence: 111666 before XPA2	MFSK-6	(AB)
X06b	13884	14-12	1315	Fri	Sequence: 111666 before XPA2	MFSK-6	(AB)
X06b	12217	14-12	1318	Fri	Sequence: 111666 before XPA2	MFSK-6	(AB)
X06b	13884	14-12	1318	Fri	Sequence: 111666 before XPA2	MFSK-6	(AB)
X06b	15967	14-12	1322	Fri	Sequence: 111666 before XPA2	MFSK-6	(AB)
X06b	14538	16-12	1219	Sun	Sequence: 111666 before XPA2	MFSK-6	(Dan)
X06b	14538	16-12	1222	Sun	Sequence: 111666 before XPA2	MFSK-6	(Dan)
X06b	14538	16-12	1225	Sun	Sequence: 111666 before XPA2	MFSK-6	(Dan)
X06b	15967	16-12	1316	Sun	Sequence: 111666 before XPA2	MFSK-6	(Dan)
X06b	15967	16-12	1318	Sun	Sequence: 111666 before XPA2	MFSK-6	(Dan)
X06b	5823	17-12	1841	Mon	Sequence: 111666 before E07	USB	(AB)
X06b	6823	17-12	1843	Mon	Sequence: 111666 before E07	USB	(AB)
X06b	14538	30-12	1159	Sun	Sequence: 111666 before XPA2	MFSK-6	(AB)
X06b	13528	30-12	1200	Sun	Sequence: 111666 before XPA2	MFSK-6	(AB)
X06b	14538	30-12	1203	Sun	Sequence: 111666 before XPA2	MFSK-6	(AB)
X06b	13528	30-12	1204	Sun	Sequence: 111666 before XPA2	MFSK-6	(AB)
X06b	14538	30-12	1207	Sun	Sequence: 111666 before XPA2	MFSK-6	(AB)

X06b	13528	30-12	1208	Sun	Sequence: 111666 before XPA2	MFSK-6	(AB)
XM	6961.5	3-12	1226	Mon	Odd feedback sounds	LSB	(Avare)
XM	6961.5	3-12	1314	Mon	Odd feedback sounds	LSB	(AB)
XPA	11531	4-12	0810	Tue	395 395 395 1 00261 00153 25730 ... 45585 06002 43557	MFSK-20/10Bd	(AB/HFD)
XPA	12137	4-12	0830	Tue	395 395 395 1 00261 00153 25730 ... 45585 06002 43557	MFSK-20/10Bd	(AB/HFD)
XPA	13932	4-12	0850	Tue	395 395 395 1 00261 00153 25730 ... 45585 06002 43557	MFSK-20/10Bd	(AB/HFD)
XPA	11531	6-12	0810	Thu	395 395 395 1 00261 00153 25730 ... 45585 06002 43557	MFSK-20/10Bd	(AB)
XPA	12137	6-12	0830	Thu	395 395 395 1 00261 00153 25730 ... 45585 06002 43557	MFSK-20/10Bd	(AB)
XPA	13932	6-12	0850	Thu	395 395 395 1 00261 00153 25730 ... 45585 06002 43557	MFSK-20/10Bd	(AB)
XPA	11531	11-12	0810	Tue	395 395 395 000 08115 00001 00000 34261	MFSK-20/10Bd	(AB)
XPA	12137	11-12	0830	Tue	395 395 395 000 08115 00001 00000 34261	MFSK-20/10Bd	(AB)
XPA	13932	11-12	0850	Tue	395 395 395 000 08115 00001 00000 34261	MFSK-20/10Bd	(AB)
XPA	11531	13-12	0810	Thu	395 395 395 000 03145 00001 00000 34257	MFSK-20/10Bd	(AB)
XPA	12137	13-12	0830	Thu	395 395 395 000 03145 00001 00000 34257	MFSK-20/10Bd	(AB)
XPA	13932	13-12	0850	Thu	395 395 395 000 03145 00001 00000 34257	MFSK-20/10Bd	(AB)
XPA	11531	18-12	0810	Tue	395 395 395 1 03923 00141 92988 ... 14500 21641 62532	MFSK-20/10Bd	(AB)
XPA	12137	18-12	0830	Tue	395 395 395 1 03923 00141 92988 ... 14500 21641 62532	MFSK-20/10Bd	(AB)
XPA	13932	18-12	0850	Tue	395 395 395 1 03923 00141 92988 ... 14500 21641 62532	MFSK-20/10Bd	(AB)
XPA	11531	20-12	0810	Thu	395 395 395 1 03923 00141 92988 ... 14500 21641 62532	MFSK-20/10Bd	(AB)
XPA	12137	20-12	0830	Thu	395 395 395 1 03923 00141 92988 ... 14500 21641 62532	MFSK-20/10Bd	(AB)
XPA	13932	20-12	0850	Thu	395 395 395 1 03923 00141 92988 ... 14500 21641 62532	MFSK-20/10Bd	(AB)
XPA	11531	25-12	0810	Tue	395 395 395 1 07712 00097 61921 ... 15485 44402 66750	MFSK-20/10Bd	(AB)
XPA	12137	25-12	0830	Tue	395 395 395 1 07712 00097 61921 ... 15485 44402 66750	MFSK-20/10Bd	(AB)
XPA	13932	25-12	0850	Tue	395 395 395 1 07712 00097 61921 ... 15485 44402 66750	MFSK-20/10Bd	(AB)
XPA	11531	27-12	0810	Thu	395 395 395 1 07712 00097 61921 ... 15485 44402 66750	MFSK-20/10Bd	(AB)
XPA	12137	27-12	0830	Thu	395 395 395 1 07712 00097 61921 ... 15485 44402 66750	MFSK-20/10Bd	(AB)
XPA	13932	27-12	0850	Thu	395 395 395 1 07712 00097 61921 ... 15485 44402 66750	MFSK-20/10Bd	(AB)
XPA2	15967	1-12	1400	Sat	04860 00001 00000 35262	MFSK-16/20Bd	(AB/MPJ/HFD)
XPA2	13884	1-12	1420	Sat	04860 00001 00000 35262	MFSK-16/20Bd	(AB/MPJ/HFD)
XPA2	12217	1-12	1440	Sat	04860 00001 00000 35262	MFSK-16/20Bd	(AB/MPJ/HFD)
XPA2	14538	2-12	1300	Sun	01400 00001 00000 33252	MFSK-16/20Bd	(AB/MPJ/Dan/HFD)
XPA2	13538	2-12	1320	Sun	01400 00001 00000 33252	MFSK-16/20Bd	(AB/MPJ/Dan/HFD)
XPA2	12138	2-12	1340	Sun	01400 00001 00000 33252	MFSK-16/20Bd	(AB/MPJ/Dan/HFD)
XPA2	10278	3-12	0800	Mon	01101 00201 17997 ... 11399 58421 43157	MFSK-16/20Bd	(AB/HFD)
XPA2	12178	3-12	0820	Mon	01101 00201 17997 ... 11399 58421 43157	MFSK-16/20Bd	(AB/HFD)
XPA2	13478	3-12	0840	Mon	01101 00201 17997 ... 11399 58421 43157	MFSK-16/20Bd	(AB/HFD)
XPA2	13562	3-12	0910	Mon	msg	MFSK-16/20Bd	(HFD)
XPA2	11583	3-12	0930	Mon	msg	MFSK-16/20Bd	(HFD)
XPA2	10281	3-12	0950	Mon	msg	MFSK-16/20Bd	(HFD)

XPA2	14538	4-12	1300	Tue	00463 00073 35891 ... 18480 00531 36154	MFSK-16/20Bd	(AB/MPJ)
XPA2	13538	4-12	1320	Tue	00463 00073 35891 ... 18480 00531 36154	MFSK-16/20Bd	(AB/MPJ)
XPA2	12138	4-12	1340	Tue	00463 00073 35891 ... 18480 00531 36154	MFSK-16/20Bd	(AB/MPJ)
XPA2	10278	5-12	0800	Wed	01101 00201 17997 ... 11399 58421 43157	MFSK-16/20Bd	(AB)
XPA2	12178	5-12	0820	Wed	01101 00201 17997 ... 11399 58421 43157	MFSK-16/20Bd	(AB)
XPA2	13478	5-12	0840	Wed	01101 00201 17997 ... 11399 58421 43157	MFSK-16/20Bd	(AB)
XPA2	13562	5-12	0910	Wed	00339 00093 33016 ... 76087 28528 64666	MFSK-16/20Bd	(AB)
XPA2	11583	5-12	0930	Wed	00339 00093 33016 ... 76087 28528 64666	MFSK-16/20Bd	(AB)
XPA2	10281	5-12	0950	Wed	00339 00093 33016 ... 76087 28528 64666	MFSK-16/20Bd	(AB)
XPA2	13919	6-12	0910	Thu	msg	MFSK-16/20Bd	(HFD)
XPA2	11419	6-12	0930	Thu	msg	MFSK-16/20Bd	(HFD)
XPA2	10719	6-12	0950	Thu	msg	MFSK-16/20Bd	(HFD)
XPA2	15967	7-12	1400	Fri	09581 00001 00000 34271	MFSK-16/20Bd	(AB/Dan/MPJ)
XPA2	13884	7-12	1420	Fri	09581 00001 00000 34271	MFSK-16/20Bd	(AB/Dan/MPJ)
XPA2	12217	7-12	1440	Fri	09581 00001 00000 34271	MFSK-16/20Bd	(AB/Dan/MPJ)
XPA2	13919	8-12	0910	Sat	04239 00107 58829 ... 21168 19318 41021	MFSK-16/20Bd	(AB)
XPA2	11519	8-12	0930	Sat	04239 00107 58829 ... 21168 19318 41021	MFSK-16/20Bd	(AB)
XPA2	10719	8-12	0950	Sat	04239 00107 58829 ... 21168 19318 41021	MFSK-16/20Bd	(AB)
XPA2	15967	8-12	1400	Sat	02703 00001 00000 36252	MFSK-16/20Bd	(AB/MPJ/Dan)
XPA2	13884	8-12	1420	Sat	02703 00001 00000 36252	MFSK-16/20Bd	(AB/MPJ/Dan)
XPA2	12217	8-12	1440	Sat	02703 00001 00000 36252	MFSK-16/20Bd	(AB/MPJ/Dan)
XPA2	14538	9-12	1300	Sun	00463 00073 35891 ... 18480 00531 36154	MFSK-16/20Bd	(AB/MPJ)
XPA2	13538	9-12	1320	Sun	00463 00073 35891 ... 18480 00531 36154	MFSK-16/20Bd	(AB/MPJ/RL-HOL)
XPA2	12138	9-12	1340	Sun	00463 00073 35891 ... 18480 00531 36154	MFSK-16/20Bd	(AB/MPJ)
XPA2	10278	10-12	0800	Mon	01112 00001 00000 32652	MFSK-16/20Bd	(AB)
XPA2	12178	10-12	0820	Mon	01112 00001 00000 32652	MFSK-16/20Bd	(AB)
XPA2	13478	10-12	0840	Mon	01112 00001 00000 32652	MFSK-16/20Bd	(AB)
XPA2	13562	10-12	0910	Mon	01177 00001 00000 35260	MFSK-16/20Bd	(AB)
XPA2	11583	10-12	0930	Mon	01177 00001 00000 35260	MFSK-16/20Bd	(AB)
XPA2	10281	10-12	0950	Mon	01177 00001 00000 35260	MFSK-16/20Bd	(AB)
XPA2	14538	11-12	1300	Tue	08385 00001 00000 35270	MFSK-16/20Bd	(AB/MPJ)
XPA2	13538	11-12	1320	Tue	08385 00001 00000 35270	MFSK-16/20Bd	(AB/MPJ/RL-HOL)
XPA2	12138	11-12	1340	Tue	08385 00001 00000 35270	MFSK-16/20Bd	(AB/MPJ)
XPA2	10278	12-12	0800	Wed	09093 00001 00000 22672	MFSK-16/20Bd	(AB)
XPA2	12178	12-12	0820	Wed	09093 00001 00000 22672	MFSK-16/20Bd	(AB)
XPA2	13478	12-12	0840	Wed	09093 00001 00000 22672	MFSK-16/20Bd	(AB)
XPA2	13562	12-12	0910	Wed	07236 00001 00000 35262	MFSK-16/20Bd	(AB)
XPA2	11583	12-12	0930	Wed	07236 00001 00000 35262	MFSK-16/20Bd	(AB)
XPA2	10281	12-12	0950	Wed	07236 00001 00000 35262	MFSK-16/20Bd	(AB)

XPA2	13919	13-12	0910	Thu	04239 00107 58829 ... 21168 19318 41021	MFSK-16/20Bd	(AB)
XPA2	11519	13-12	0930	Thu	04239 00107 58829 ... 21168 19318 41021	MFSK-16/20Bd	(AB)
XPA2	10719	13-12	0950	Thu	04239 00107 58829 ... 21168 19318 41021	MFSK-16/20Bd	(AB)
XPA2	15967	14-12	1400	Fri	00258 00075 98269 ... 28234 97736 27163	MFSK-16/20Bd	(AB/MPJ)
XPA2	13884	14-12	1420	Fri	00258 00075 98269 ... 28234 97736 27163	MFSK-16/20Bd	(AB/MPJ)
XPA2	12217	14-12	1440	Fri	00258 00075 98269 ... 28234 97736 27163	MFSK-16/20Bd	(AB/MPJ)
XPA2	13919	15-12	0910	Sat	03584 00001 00000 35663	MFSK-16/20Bd	(AB)
XPA2	11519	15-12	0930	Sat	03584 00001 00000 35663	MFSK-16/20Bd	(AB)
XPA2	10719	15-12	0950	Sat	03584 00001 00000 35663	MFSK-16/20Bd	(AB)
XPA2	15967	15-12	1400	Sat	00258 00075 98269 ... 28234 97736 27163	MFSK-16/20Bd	(AB/MPJ/Dan)
XPA2	13884	15-12	1420	Sat	00258 00075 98269 ... 28234 97736 27163	MFSK-16/20Bd	(AB/MPJ/Dan)
XPA2	12217	15-12	1440	Sat	00258 00075 98269 ... 28234 97736 27163	MFSK-16/20Bd	(AB/MPJ/Dan)
XPA2	14538	16-12	1300	Sun	07392 00001 00000 33670	MFSK-16/20Bd	(AB/MPJ)
XPA2	13538	16-12	1320	Sun	07392 00001 00000 33670	MFSK-16/20Bd	(AB/MPJ)
XPA2	12138	16-12	1340	Sun	07392 00001 00000 33670	MFSK-16/20Bd	(AB/MPJ)
XPA2	10278	17-12	0800	Mon	03993 00163 41726 ... 11956 23533 53743	MFSK-16/20Bd	(AB)
XPA2	12178	17-12	0820	Mon	03993 00163 41726 ... 11956 23533 53743	MFSK-16/20Bd	(AB)
XPA2	13478	17-12	0840	Mon	03993 00163 41726 ... 11956 23533 53743	MFSK-16/20Bd	(AB)
XPA2	13562	17-12	0910	Mon	04187 00131 96926 ... 64689 28702 55122	MFSK-16/20Bd	(AB)
XPA2	11583	17-12	0930	Mon	04187 00131 96926 ... 64689 28702 55122	MFSK-16/20Bd	(AB)
XPA2	10281	17-12	0950	Mon	04187 00131 96926 ... 64689 28702 55122	MFSK-16/20Bd	(AB)
XPA2	14538	18-12	1300	Tue	07326 00081 76248 ... 84431 00734 73230	MFSK-16/20Bd	(AB/MPJ)
XPA2	13538	18-12	1320	Tue	07326 00081 76248 ... 84431 00734 73230	MFSK-16/20Bd	(AB/MPJ)
XPA2	12138	18-12	1340	Tue	07326 00081 76248 ... 84431 00734 73230	MFSK-16/20Bd	(AB/MPJ)
XPA2	10278	19-12	0800	Wed	03993 00163 41726 ... 11956 23533 53743	MFSK-16/20Bd	(AB)
XPA2	12178	19-12	0820	Wed	03993 00163 41726 ... 11956 23533 53743	MFSK-16/20Bd	(AB)
XPA2	13478	19-12	0840	Wed	03993 00163 41726 ... 11956 23533 53743	MFSK-16/20Bd	(AB)
XPA2	13562	19-12	0910	Wed	04187 00131 96926 ... 64689 28702 55122	MFSK-16/20Bd	(AB)
XPA2	11583	19-12	0930	Wed	04187 00131 96926 ... 64689 28702 55122	MFSK-16/20Bd	(AB)
XPA2	10281	19-12	0950	Wed	04187 00131 96926 ... 64689 28702 55122	MFSK-16/20Bd	(AB)
XPA2	13919	20-12	0910	Thu	08464 00091 90033 ... 36976 03824 73323	MFSK-16/20Bd	(AB)
XPA2	11519	20-12	0930	Thu	08464 00091 90033 ... 36976 03824 73323	MFSK-16/20Bd	(AB)
XPA2	10719	20-12	0950	Thu	08464 00091 90033 ... 36976 03824 73323	MFSK-16/20Bd	(AB)
XPA2	15967	21-12	1400	Fri	06442 00001 00000 34262	MFSK-16/20Bd	(AB/MPJ)
XPA2	13884	21-12	1420	Fri	06442 00001 00000 34262	MFSK-16/20Bd	(AB/MPJ)
XPA2	12217	21-12	1440	Fri	06442 00001 00000 34262	MFSK-16/20Bd	(AB/MPJ)
XPA2	13919	22-12	0910	Sat	08464 00091 90033 ... 36976 03824 73323	MFSK-16/20Bd	(AB)
XPA2	11519	22-12	0930	Sat	08464 00091 90033 ... 36976 03824 73323	MFSK-16/20Bd	(AB)
XPA2	10719	22-12	0950	Sat	08464 00091 90033 ... 36976 03824 73323	MFSK-16/20Bd	(AB)

XPA2	15967	22-12	1400	Sat	09036 00001 00000 34264	MFSK-16/20Bd	(AB/MPJ)
XPA2	13884	22-12	1420	Sat	09036 00001 00000 34264	MFSK-16/20Bd	(AB/MPJ)
XPA2	12217	22-12	1440	Sat	09036 00001 00000 34264	MFSK-16/20Bd	(AB/MPJ)
XPA2	14538	23-12	1300	Sun	07326 00081 76248 ... 84431 00734 73230	MFSK-16/20Bd	(AB/MPJ)
XPA2	13538	23-12	1320	Sun	07326 00081 76248 ... 84431 00734 73230	MFSK-16/20Bd	(AB/MPJ)
XPA2	12138	23-12	1340	Sun	07326 00081 76248 ... 84431 00734 73230	MFSK-16/20Bd	(AB/MPJ)
XPA2	10278	24-12	0800	Mon	01557 00175 23810 ... 09638 88669 14205	MFSK-16/20Bd	(AB)
XPA2	12178	24-12	0820	Mon	01557 00175 23810 ... 09638 88669 14205	MFSK-16/20Bd	(AB)
XPA2	13478	24-12	0840	Mon	01557 00175 23810 ... 09638 88669 14205	MFSK-16/20Bd	(AB)
XPA2	13562	24-12	0910	Mon	05840 00001 00000 35261	MFSK-16/20Bd	(AB)
XPA2	11583	24-12	0930	Mon	05840 00001 00000 35261	MFSK-16/20Bd	(AB)
XPA2	10281	24-12	0950	Mon	05840 00001 00000 35261	MFSK-16/20Bd	(AB)
XPA2	10278	26-12	0800	Wed	01557 00175 23810 ... 09638 88669 14205	MFSK-16/20Bd	(AB)
XPA2	12178	26-12	0820	Wed	01557 00175 23810 ... 09638 88669 14205	MFSK-16/20Bd	(AB)
XPA2	13478	26-12	0840	Wed	01557 00175 23810 ... 09638 88669 14205	MFSK-16/20Bd	(AB)
XPA2	13562	26-12	0910	Wed	07484 00001 00000 35267	MFSK-16/20Bd	(AB)
XPA2	11583	26-12	0930	Wed	07484 00001 00000 35267	MFSK-16/20Bd	(AB)
XPA2	10281	26-12	0950	Wed	07484 00001 00000 35267	MFSK-16/20Bd	(AB)
XPA2	13919	27-12	0910	Thu	06954 00001 00000 37663	MFSK-16/20Bd	(AB)
XPA2	11519	27-12	0930	Thu	06954 00001 00000 37663	MFSK-16/20Bd	(AB)
XPA2	10719	27-12	0950	Thu	06954 00001 00000 37663	MFSK-16/20Bd	(AB)
XPA2	15967	28-12	1400	Fri	00208 00093 02257 ... 55138 30883 75651	MFSK-16/20Bd	(AB)
XPA2	13884	28-12	1420	Fri	00208 00093 02257 ... 55138 30883 75651	MFSK-16/20Bd	(AB)
XPA2	12217	28-12	1440	Fri	00208 00093 02257 ... 55138 30883 75651	MFSK-16/20Bd	(AB)
XPA2	13919	29-12	0910	Sat	04864 00001 00000 37262	MFSK-16/20Bd	(AB)
XPA2	11519	29-12	0930	Sat	04864 00001 00000 37262	MFSK-16/20Bd	(AB)
XPA2	10719	29-12	0950	Sat	04864 00001 00000 37262	MFSK-16/20Bd	(AB)
XPA2	15967	29-12	1400	Sat	00208 00093 02257 ... 55138 30883 75651	MFSK-16/20Bd	(AB/MPJ)
XPA2	13884	29-12	1420	Sat	00208 00093 02257 ... 55138 30883 75651	MFSK-16/20Bd	(AB/MPJ)
XPA2	12217	29-12	1440	Sat	00208 00093 02257 ... 55138 30883 75651	MFSK-16/20Bd	(AB/MPJ)
XPA2	14538	30-12	1300	Sun	08141 00001 00000 32264	MFSK-16/20Bd	(AB/MPJ)
XPA2	13538	30-12	1320	Sun	08141 00001 00000 32264	MFSK-16/20Bd	(AB/MPJ)
XPA2	12138	30-12	1340	Sun	08141 00001 00000 32264	MFSK-16/20Bd	(AB/MPJ)
XPA2	10278	31-12	0800	Mon	07088 00001 00000 35267	MFSK-16/20Bd	(AB)
XPA2	12178	31-12	0820	Mon	07088 00001 00000 35267	MFSK-16/20Bd	(AB)
XPA2	13478	31-12	0840	Mon	07088 00001 00000 35267	MFSK-16/20Bd	(AB)
XPA2	13562	31-12	0910	Mon	03031 00001 00000 31656	MFSK-16/20Bd	(AB)
XPA2	11583	31-12	0930	Mon	03031 00001 00000 31656	MFSK-16/20Bd	(AB)
XPA2	10281	31-12	0950	Mon	03031 00001 00000 31656	MFSK-16/20Bd	(AB)

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All information in this newsletter was submitted by independent radio monitors or has been obtained from public available sources and public sites on the web. Wherever data was obtained via the web or elsewhere, references and/or links to these sources have been noted.

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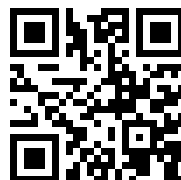
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UDXF - UTILITY DXERS FORUM	http://www.udxf.nl
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876 27364 92836 09428 61208 14982 36498 32764 81276 81
986 48932 70987 32123 49817 26346 81287 65491 87364 81
721 75654 55656 12737 72727 72727 91918 63473 67867 76
723 87629 37677 32612 53498 71296 28756 18276 98716 87
269 76329 74698 76857 98678 27601 56701 57601 73648 1
591 87364 87265 96710 27630 12673 80769 28743 98122 5
68 63298 75698 27465 87326 49876 28376 81273 98615 8
67 87432 74328 78674 29867 32867 67867 86786 43206 48
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743 86743 86743 39867 32867 86743 43286 43286 43243 86
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