Numbers & Oddities

a.k.a. The Spooks Newsletter

Edition #204, September 2014

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NUMBERS & ODDITIES http://www.numbersoddities.nl

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HF UNDERGOUND http://www.hfunderground.com/board/

Hey and welcome to yet another edition of Numbers & Oddities. Don't forget to check the website every now and then for new recordings and updated profiles. I'd like to thank all the contributors especially JPL, HFD and Danix for the large amount of logs. Like last month I'd like to start with a stroll down memory lane.

```
vv99+1804+0++++++
vv99+1806+0++++++
vv99+1808+0++++++
vv99+1810+0++++++
vv99+1812+0++++++
vv99+1814+06+++++
vv99+1816+0++++++
vv99+1818+0++++++
vv99+1820+0++++++
vv99+1822+0++++++
vv99+1824+0++++++
vv99+1826+0++++++
vv99+1828+0?:.9++
vv99+1830+0++++++
vv99+1832+0++++++
vv99+1834+0++++++
vv99+1836+0++++++
vv99+1838+0++++++
vv99+1840+0++++++
vv99+1842+0++++++
vv.9+1844+0++++++
vvv99+1846+0++++++
vv99+1848+0++++++
vv99+1850+0++++++
v99+1852+0++++++
vv99+1854+0++++++
vv99+1856+0++++++
vv99+1858+0++++++
vv99+1900+0++++++
vv99+1902+0++++++
vv99+1904+0++++++
vv99+1906+0++++++
vv99+1908+0++++++
vv99+1910+0++++++
vv99+1912+0++++++
vv99+1914+0++++++
vv99+1916+0++++++
```

In the early 1990's a station similar to M21 transmitted on 5416 kHz.

It sent the following QRV message in 50bd RTTY:

VV99+1804+0++++++

The time string was UTC+1.

It belonged to the Russian forces in Eastern Germany or the East German forces.

Transcript on the right.

During the Crimea crisis there was a lot of intelligence activity in the range 10250-10257 kHz. On September 11th similar activity popped up. Logged partly or entirely by Avare, Toto, R6MCO and Ary. Here is what was heard.

10250 kHz, 11-09, 0940 UTC, XPA2 MFSK-16/20Bd.
2 messages. Note that the group counts are not correct. The first message has GC 36 which means 39 groups while 40 were sent. The second GC 222 which means 225 groups while 40 were sent.

```
05597 00036 20228 00244 14642 72417 07388 46403 40044 18068
23876 53717 06266 16233 24118 03180 81614 58422 08311 66260
34515 61776 11708 70000 42003 31071 31385 23346 41341 80112
55555 15562 24316 36734 34436 35464 28744 56077 34446 01200
00000 00000
83303 00222 64446 22222 22222 32232 22773 34331 12255 78433
32777 72885 56643 66107 78817 75443 37341 12300 13570 05135
34112 55446 77187 77764 73328 73362 47115 16618 46261 10470
11864 01813 23711 05836 11760 10607 67450 38464 87565 64110
```

10250 kHz, 11-09, 0947 UTC, DP01. Mode: MFSK/2x 62.5Bd QPSK

10255 kHz, 11-09, 0950 UTC, E907b USB
```
123 123 123 1 1 9332 18 9332 18
40837 48130 87686 73868 01330 44444 37262 13113 52074 48001
88121 25523 83685 04054 31733 71585 43424 36848
```

10257 kHz, 11-09, 1019 UTC, E06 in LSB.
Sounds like lots of zero's (dashes) in morse but when you listen carefully you could hear that the morse was the carrier which was "interrupted" by the voice. Both E06 and E07 voices were heard. Possibly a test or a faulty transmission. The text was mostly unreadable. I heard: 44052 02232 74885 770?7 ??577 ???52 55555 74?26 01085 31071 ?0011 ??????

10250 kHz, 11-09, 1523 UTC. Operator chats in USB connected to the earlier activities on this channel.

VOICE STATIONS

E06

10257 kHz, 11-09, 1019 UTC, E06 in LSB.
Sounds like lots of zero's (dashes) in morse but when you listen carefully you could hear that the morse was the carrier which was "interrupted" by the voice. Both E06 and E07 voices were heard. Possibly a test or a faulty transmission. The text was mostly unreadable. I heard: 44052 02232 74885 770?7 ??577 ???52 55555 74?26 01085 31071 ?0011 ??????

15960/17450 kHz, 04-09/05-09/18-09, 0500/0600 UTC
15860/17450 kHz, 18-09, 0500/0600 UTC
354 (R) 672 672 108 108
73785 87250 47557 12795 80382 55617 92755 56938 63568 16758
65029 53794 38483 10405 58233 92583 36034 14903 58099 47059
25449 53715 43548 94808 84586 40712 81849 36805 16429 56404
78568 90878 35209 72331 68228 88812 70608 65774 56644 31724
63448 91991 50845 83447 51332 06161 37537 06586 67660 52216
96034 70928 02467 60767 56603 88915 98502 23286 40153 57851
81020 34752 40217 13525 44677 21945 33142 24966 46010 99562
27457 84980 74917 21366 88322 76194 03577 18525 98030 17256
36240 42361 38460 18911 08354 53675 06459 04627 08427 25838
98061 75457 21086 53847 22501 23825 14773 86517 31935 25924
22493 24011 77837 67427 89078 47888 29989 82169
672 672 108 108 00000

12207 kHz, 23-09, 1130 UTC
509 612 47
90728 56576 69080 39158 16384 83163 72085 81097 19587 50606
05031 46571 86153 92412 35210 80452 56713 82146 24316 06971
05306 17194 12148 14941 87969 74127 03891 71943 70516 87364
78750 32561 16816 93023 68391 40134 69349 29853 68348 18937
78686 17652 69435 17564 51362 81257 09145
509 387 60
91780 12380 94650 06741 09509 43791 92878 90656 71041 05051
31298 97848 23651 26082 82642 47281 68327 23930 82184 18048
35343 80715 06738 54354 13475 06861 50743 65408 43658 70204
42529 68926 83898 94214 63758 26431 10735 21084 93476 59861
29180 52348 67015 25083 82637 49405 17683 53671 43534 52159
65309 73471 60729 67489 32489 05892 01951 87675 69349 97482
387 60 00000

5186 kHz, 04-09/18-09, 2030 UTC
891 237 20
37839 35787 98273 60187 16202 95625 31691 52538 61025 22567
93296 67423 40968 16891 63781 34820 04842 60491 75924 04594
237 20 00000

5197 kHz, 05-09/19-09, 2130 UTC
634 931 20
14259 22676 32782 32782 76723 89409 12215 74326 64070 90235
38085 59543 12319 74238 36664 12256 18841 73311 98089 12250
931 20 00000

E07/ E07a / E907b

8173/7473/5773 kHz, 17-09, 2000/2020/2040 UTC
147 1 19097 1342 79
49682 90044 97253 68629 34494 15735 65100 53040 12018 60720
07040 54980 75393 79692 95880 80197 34819 24790 94008 00901
68961 33707 82265 15938 71122 04555 64676 61726 91805 42869
30224 23890 26323 05570 06852 21533 72860 53742 24444 34588
15837 99350 36264 23586 97094 85581 52571 06323 31309 94619
97133 57390 59097 12710 87947 52506 19697 67844 74513 43571
34833 44383 96110 92344 51073 66735 06895 28570 27621 47520
40705 10321 08359 07160 16921 47337 72075 33036 32062
000 000

7437/8137/9137 kHz, 18-09, 0430/0450/0510 UTC
411 1 19097 1342 79
49682 90044 97253 68629 34494 15735 65100 53040 12018 60720
07040 54980 75393 79692 95880 80197 34819 24790 94008 00901
68961 33707 82265 15938 71122 04555 64676 61726 91805 42869
30224 23890 26323 05570 06852 21533 72860 53742 24444 34588
15837 99350 36264 23586 97094 85581 52571 06323 31309 94619
97133 57390 59097 12710 87947 52506 19697 67844 74513 43571
34833 44383 96110 92344 51073 66735 06895 28570 27621 47520
40705 10321 08359 07160 16921 47337 72075 33036 32062
000 000

10583/9383/8183 kHz, 19-09, 1510/1530/1550 UTC
531 1 13633 2182 67
33980 06257 87989 49802 04433 27181 32723 36735 52195 33603
05526 09284 00393 85738 31118 71779 21198 60042 36461 51095
26856 25324 54161 54382 31910 49526 50683 38335 68562 99284
59118 17630 55772 35713 84724 36752 57683 75514 97996 93131
41742 96735 78191 25158 65223 75215 15013 04410 18439 00832
62403 95675 96073 58686 81692 20843 80704 05239 52271 75371
97962 57556 18243 54878 59381 72957 58210
000 000

11153/12153/13453 kHz, 20-09, 0800/0820/0840 UTC
114 1 13633 2182 67
33980 06257 87989 49802 04433 27181 32723 36735 52195 33603
05526 09284 00393 85738 31118 71779 21198 60042 36461 51095
26856 25324 54161 54382 31910 49526 50683 38335 68562 99284
59118 17630 55772 35713 84724 36752 57683 75514 97996 93131
41742 96735 78191 25158 65223 75215 15013 04410 18439 00832
62403 95675 96073 58686 81692 20843 80704 05239 52271 75371
97962 57556 18243 54878 59381 72957 58210
000 000

10583/9383/8183 kHz, 26-09, 1510/1530/1550 UTC
531 1 61804 3346 95
82019 00489 90784 78304 58894 98465 65627 66270 08915 98656
18543 26889 51456 83692 97915 35598 56452 56604 00672 04442
94796 33029 61585 52952 83900 70632 16787 42069 35621 19098
08421 93061 46946 15184 28698 97355 63984 83979 65447 63502
55151 02790 45989 38624 92442 92693 87201 44527 70421 62436
81440 66654 26426 92512 88273 20220 84177 50062 69073 87806
29412 27586 37067 34309 95348 85369 42232 26261 42492 37667
83550 71874 87139 71105 75933 96697 55208 90181 95632 12243
42455 04094 57056 07590 03015 12396 95906 06532 15935 93188
79954 69524 67459 96519 31786
000 000

11153/12153/13453 kHz, 27-09, 0800/0820/0840 UTC
114 1 61804 3346 95
82019 00489 90784 78304 58894 98465 65627 66270 08915 98656
18543 26889 51456 83692 97915 35598 56452 56604 00672 04442
94796 33029 61585 52952 83900 70632 16787 42069 35621 19098
08421 93061 46946 15184 28698 97355 63984 83979 65447 63502
55151 02790 45989 38624 92442 92693 87201 44527 70421 62436
81440 66654 26426 92512 88273 20220 84177 50062 69073 87806
29412 27586 37067 34309 95348 85369 42232 26261 42492 37667
83550 71874 87139 71105 75933 96697 55208 90181 95632 12243
42455 04094 57056 07590 03015 12396 95906 06532 15935 93188
79954 69524 67459 96519 31786
000 000

12108/10708/9208 kHz, 08-09, 1900/1920/1940 UTC
172 172 172 1 582 114 582 114
86490 31006 28630 40238 81098 48801 20320 41319 44540 19119
40069 37497 53583 79964 69243 74739 73776 46820 60393 55412
76062 67050 59896 47174 78874 02519 71371 03689 26112 96869
58391 77710 14436 64061 46871 53862 77456 48081 56604 21993
08163 09253 39267 71514 80217 28984 89245 48899 09518 54508
71815 76300 15215 76893 50589 07810 06854 63205 61341 08724
38407 62306 28568 28730 84992 55696 28816 22888 65011 21585
24986 57013 29495 71575 73454 64036 44628 74869 46826 67753
46711 46735 30110 95714 12654 63823 48818 90659 69618 89142
37806 73363 77613 75152 43603 99675 47173 90120 62082 56821
06018 62782 99351 92464 94817 63666 64762 59302 25238 91130
72147 26523 65315 38182
000 000

E907b, 10255 kHz, 11-09, 1135 UTC
123 123 123 1 1 9332 18 9332 18
40837 48130 87686 73868 01330 44444 37262 13113 52074 48001
88121 25523 83685 04054 31733 71585 43424 36848

12108/10708/9208 kHz, 22-09/24-09, 1900/1920/1940 UTC
172 172 172 1 361 62 361 62
80630 39884 93385 12626 71105 11764 49629 64556 34867 58158
34698 59710 06204 07377 33837 21693 80025 34112 32392 80741
62716 69556 08264 59093 73588 16830 89864 50585 66377 35179
19964 14601 92599 18659 44894 81864 75387 45720 55833 22010
24401 42668 17163 37077 35215 79209 11231 39121 40084 12782
15682 18508 14882 99146 96694 36303 14073 17356 99038 04838
51999 70618
000 000

13527/12227/10627 kHz, 17-09, 1700/1720/1740 UTC
526 526 526 1 845 137 845 137
54365 18144 01051 03053 93794 86565 89957 98976 33046 11914
15014 11790 72995 63828 18402 66779 80983 90924 59060 32757
32578 78090 91332 80924 66638 66593 13695 77600 15075 29150
64299 87090 10794 44135 69890 14554 02621 32128 77000 81011
16230 62590 78607 46622 92860 65688 57336 16932 00256 52204
95018 43347 23357 20950 76346 73962 52999 86240 66586 63920
79389 34971 41595 77110 40408 88838 77863 21156 08900 03876
26824 28357 90657 37613 97448 38601 18420 66507 00530 99761
15397 24131 01288 83470 56633 76302 56245 13859 09116 68546
81034 70115 71145 97892 46514 19054 51852 73044 75511 77425
26058 56735 86560 86006 59859 22952 72897 11058 71945 37711
28895 25063 17168 25235 54405 15195 29872 60036 08634 94599
90453 70987 37055 02389 77859 81880 25397 28853 17979 04199
82424 49020 57114 88280 59373 56290 05573
000 000

7437/8137/9137 kHz, 17-09, 0430/0450/0510 UTC
411 411 411 1 19097 1342 79
49682 90044 97253 68629 34494 15735 65100 53040 12018 60720
07040 54980 75393 79692 95880 80197 34819 24790 94008 00901
68961 33707 82265 15938 71122 04555 64676 61726 91805 42869
30224 23890 26323 05570 06852 21533 72860 53742 24444 34588
15837 99350 36264 23586 97094 85581 52571 06323 31309 94619
97133 57390 59097 12710 87947 52506 19697 67844 74513 43571
34833 44383 96110 92344 51073 66735 06895 28570 27621 47520
40705 10321 08359 07160 16921 47337 72075 33036 32062
000 000

E11/ E11a

The id's of the 10-groups messages are interesting. They follow a pattern. They either go up or down by one or two figures. See the examples below. Thanks to Danix for supplying a number of these logs.

Tue 03 June 0530 UTC	981/10	Tue 01 July 0530 UTC	980/10	Sat 23 August 0530 UTC	981/10	Sometimes random:	
Tue 03 June 1400 UTC	982/10	Tue 01 July 1400 UTC	981/10	Sat 23 August 1400 UTC	983/10	Sat 12 July 0530 UTC	986/10
Tue 03 June 1810 UTC	983/10	Tue 01 July 1810 UTC	982/10	Sat 23 August 1810 UTC	985/10	Sat 12 July 1400 UTC	980/10
						Sat 12 July 1810 UTC	988/10
Sat 07 June 0530 UTC	986/10	Sat 05 July 0530 UTC	988/10	Tue 16 Sept 0530 UTC	980/10		
Sat 07 June 1400 UTC	987/10	Sat 05 July 1400 UTC	987/10	Tue 16 Sept 1500 UTC	981/10	Tue 12 August 0530 UTC	984/10
Sat 07 June 1810 UTC	988/10	Sat 05 July 1810 UTC	986/10	Tue 16 Sept 1810 UTC	982/10	Tue 12 August 1400 UTC	985/10
						Tue 12 August 1810 UTC	987/10
Tue 10 June 0530 UTC	980/10	Sat 02 August 0530 UTC	980/10	Sometimes not in sequence:			
Tue 10 June 1400 UTC	981/10	Sat 02 August 1400 UTC	981/10	Sat 16 August 0530 UTC	981/10		
Tue 10 June 1810 UTC	982/10	Sat 02 August 1810 UTC	982/10	Sat 16 August 1400 UTC	980/10		
				Sat 16 August 1810 UTC	982/10		
Sat 21 June 0530 UTC	981/10	Sat 09 August 0530 UTC	981/10				
Sat 21 June 1400 UTC	982/10	Sat 09 August 1400 UTC	982/10	Sat 30 August 0530 UTC	980/10		
Sat 21 June 1810 UTC	983/10	Sat 09 August 1810 UTC	983/10	Sat 30 August 1400 UTC	982/10		
				Sat 30 August 1810 UTC	981/10		
Tue 24 June 0530 UTC	981/10	Tue 19 August 0530 UTC	980/10				
Tue 24 June 1400 UTC	983/10	Tue 19 August 1400 UTC	981/10				
Tue 24 June 1810 UTC	985/10	Tue 19 August 1810 UTC	982/10				

9399 kHz, 01-09/03-09, 0900 UTC
533/38 Attention
61386 00983 56863 94879 84857 27405 14188 06438 07239 51155
07702 46212 40210 43232 08634 91137 86579 34157 31224 94120
68185 47696 51783 89704 06381 47403 42614 29882 57747 40921
88644 86813 47153 45708 55294 05276 80161 26496
Attention, rpt msg, out

13375 kHz, 01-09, 1110 UTC
956/33 Attention
14000 03644 20457 89197 40162 99037 43590 16247 12234 52707
43955 62926 30875 63784 84459 51372 51050 26167 43723 13728
38616 12969 82731 82794 15289 32493 63183 10962 70091 94414
19288 23853 05374
Attention, rpt msg, out

15915 kHz, 01-09/07-09, 1540 UTC
220/32 Attention
93010 22858 13553 28077 04928 40390 38060 61851 48990 95435
06334 32823 18139 07399 95164 65832 47553 17774 36028 79770
90665 54746 16146 87949 86883 44672 84935 21141 65003 46759
92709 27154
Attention, rpt msg, out

5194 kHz, 01-09, 1710 UTC
959/27 Attention
27051 90393 85785 85871 59541 91027 80467 12426 38608 51186
59143 01845 17557 89909 09958 72838 10769 54106 93817 75448
31158 52201 51823 95971 27776 60978 62742
Attention, rpt msg, out

14575 kHz, 02-09/04-09, 0745 UTC
337/35 Attention
38279 64712 46567 69509 75063 71639 61117 14353 16386 59519
63957 49258 91382 35299 02978 79954 22342 38906 85761 40084
31570 38650 39464 90185 15650 82187 45397 16588 11980 99328
58195 05488 53731 25807 44208
Attention, rpt msg, out

8102 kHz, 02-09, 1045 UTC / 7377 kHz, 05-09, 2000 UTC
573/34 Attention
59279 01390 48391 52515 78962 65526 37096 16307 25276 98045
66275 58261 60994 20943 21930 62015 59372 13092 36228 72254
59784 56799 42118 31940 18556 85038 88339 15189 51063 13152
88046 94416 59423 74739
Attention, rpt msg, out

4909 kHz, 03-09/06-09, 1445 UTC
285/33 Attention
86274 09781 88963 01528 59857 90503 07770 33445 70407 80352
66813 61412 96570 51151 84975 69391 02437 50213 27102 97314
59388 36418 69869 14387 05800 63345 42651 30923 03741 89680
33771 76284 41380
Attention, rpt msg, out

13375 kHz, 05-09, 1110 UTC
952/40 Attention
13399 51981 29713 73718 58324 62994 69344 19492 87119 59059
88036 37284 65547 59351 64032 16321 61819 96661 28658 23964
72937 18682 27433 61963 53956 70043 79137 97432 56518 11663
30289 07111 27380 31133 13687 49703 27386 22798 91151 35792
Attention, rpt msg, out

5194 kHz, 05-09, 1710 UTC
957/30 Attention
48106 75853 91648 00217 40202 16071 60761 96466 65559 85798
12761 84381 86778 89275 01400 02166 97920 88502 21451 19792
80597 11432 87641 94694 79666 53939 14195 56192 50669 82506
Attention, rpt msg, out

13375 kHz, 08-09, 1110 UTC
952/39 Attention
95217 56581 21561 17760 62591 61757 52929 88265 44898 77963
08908 69025 17964 80644 89566 00781 63965 91950 66556 37938
58567 56501 04386 78847 08874 63268 12514 35568 08712 74184
71314 07071 02076 32628 67499 65311 37012 62655 48479
Attention, rpt msg, out

10213 kHz, 08-09, 0745 UTC
260/35 Attention
93884 72698 20040 71402 91282 44871 92510 18842 67259 51323
96439 67076 27158 62935 76163 55013 18932 28044 27025 27667
39882 88016 55768 47483 29107 22789 71750 22035 33324 67610
72928 57257 05706 57946 33351
Attention, rpt msg, out

5194 kHz, 08-09, 1710 UTC
953/31 Attention
72565 40813 77275 59161 27917 26636 68380 03342 39271 54857
66245 21454 47077 86844 14264 94239 81265 74387 58525 52651
88694 47113 57357 33467 12107 73826 59424 55219 30414 10425
53726
Attention, rpt msg, out

10221 kHz, 09-09/12-09, 0710 UTC
634/38 Attention
00946 48006 40551 75576 47879 13959 19459 59573 06112 23365
24874 67126 79455 25413 70183 49525 46418 38592 88727 66928
70141 17629 22836 07794 44026 13760 81695 15716 68068 55720
74552 61620 81867 65434 16264 22602 93118 93567
Attention, rpt msg, out

10213 kHz, 10-09, 1705 UTC
395/30 Attention
94260 43912 11192 81726 60322 82720 56107 87713 80412 81286
37836 78733 09512 99580 76914 45924 68916 56848 61389 52813
42405 91224 83468 06354 74656 63261 57155 35126 86590 13850
Attention, rpt msg, out

5194 kHz, 15-09, 1710 UTC
957/20 Attention
83740 16693 83898 88808 22899 60069 13777 53078 95555 67017
68391 04233 19331 07175 75248 82263 28190 22714 10963 53380
Attention, rpt msg, out

7850 kHz, 10-09/11-09, 0315 UTC
251/32 Attention
77782 64602 91596 87611 38236 04068 90334 57450 41805 57190
69680 22183 87638 04745 20309 07979 87918 24690 79111 11287
21931 21260 56627 19492 67452 97624 41391 56321 55327 28567
32712 20785
Attention, rpt msg, out

8803 kHz, 10-09/11-09, 0930 UTC
273/35 Attention
99959 38519 45593 99629 63792 09189 71167 08374 45062 29631
82253 78146 31858 79320 95733 77999 83513 51874 60164 14374
33996 81642 86652 84515 81700 94498 13317 69916 04127 37396
87202 99571 15381 52333 16739
Attention, rpt msg, out

10213 kHz, 08-09, 0745 UTC / 10330 kHz, 11-09, 1530 UTC
260/35 Attention
93884 72698 20040 71402 91282 44871 92510 18842 67259 51323
96439 67076 27158 62935 76163 55013 18932 28044 27025 27667
39882 88016 55768 47483 29107 22789 71750 22035 33324 67610
72928 57257 05706 57946 33351
Attention, rpt msg, out

13375 kHz, 12-09, 1110 UTC
952/31 Attention
65105 73096 62962 96697 14847 91934 81052 99517 47158 70835
04044 93655 20375 07238 87314 33786 58735 66089 32349 83286
87058 49210 48173 31494 42309 97750 23217 53308 77215 44611
71799
Attention, rpt msg, out

10213 kHz, 12-09, 1705 UTC
395/30 Attention
94260 43192 11192 81726 60322 82720 56107 87713 80412 81286
37836 78733 09512 99580 76914 45924 68916 56848 61389 52813
42405 91224 83468 06354 74656 63261 57155 35126 86590 13850
Attention, rpt msg, out

6304 kHz, 15-09, 0450 UTC / 18-09, 1730 UTC
411/37 Attention
17211 63086 42875 73194 00659 58378 87426 86191 63175 28358
20744 33346 73861 16668 75226 80364 55547 34187 62507 31440
26217 26514 38125 36074 72790 48627 41057 98760 14865 76846
51560 52940 64137 15099 73826 26410 52248
Attention, rpt msg, out

7449 kHz, 16-09/17-09, 1045 UTC
469/33 Attention
57703 05299 08067 07039 55753 83404 74361 46361 55375 66974
33952 82240 64692 74325 12166 01150 45798 83553 30071 06212
98423 75170 04161 10858 67091 04840 56546 83547 08912 88093
78004 39816 15992
Attention, rpt msg, out

15915 kHz, 18-09, 1155 UTC
716/31 Attention
96159 25910 56660 59535 56611 79586 38951 53296 64580 32579
73985 99364 05893 97210 44597 04678 27955 93766 97873 63892
80141 80225 27005 216578 80778 34010 91708 84605 54353 00558
27353
Attention, rpt msg, out

13375 kHz, 19-09, 1710 UTC
955/22 Attention
55610 89423 66841 60025 94760 46653 11603 62834 46262 97387
47255 86023 72580 06920 62378 15163 70124 75681 21243 72270
40529 62919 35149 72805 04666
Attention, rpt msg, out

8186 kHz, 20-09, 2005 UTC
369/35 Attention
81696 75605 22566 24345 96751 34697 89541 60081 39756 18828
12337 44282 94960 54073 21590 01670 48243 21309 41971 46797
67283 36169 02696 36122 49352 12707 86234 63106 93794 79956
84519 26699 17698 62347 09059
Attention, rpt msg, out

9960 kHz, 22-09/25-09, 0820 UTC
430/37 Attention
27909 11336 88464 67162 03786 46521 12515 12705 46114 42580
08106 55695 61401 30954 16310 24157 10150 31113 79831 89219
94383 29367 68520 82758 79941 84535 87751 82436 32767 32548
75473 40617 11766 73298 01748 95522 78229
Attention, rpt msg, out

5194 kHz, 22-09, 1710 UTC
959/30 Attention
97312 94456 45870 59380 92624 27042 67572 27941 36933 33110
50041 06972 66584 81439 59750 33795 94374 01325 75511 72676
24341 78588 03985 25426 66012 89755 36717 35934 41799 16189
Attention, rpt msg, out

10800 kHz, 23-09/25-09, 0645 UTC
515/32 Attention
05169 73088 27680 59933 22830 70769 18812 03136 05446 45567
06951 53292 88627 81354 45711 74484 36445 90783 06370 63173
34019 90848 65208 54848 05421 34849 08477 41560 00216 03188
76101 06720
Attention, rpt msg, out

6814 kHz, 23-09, 1950 UTC
420/21 Attention
48380 86669 64528 46530 46678 84526 72245 81789 36581 74438
93944 53180 90815 36095 99985 20107 04456 10360 00205 10687
02284
Attention, rpt msg, out

15915 kHz, 24-09/26-09, 0545 UTC
340/37 Attention
90786 43517 53723 58268 34104 22311 13304 22971 62680 41413
26119 72308 61083 96986 96396 78399 55474 49044 89501 64163
54992 08976 13829 28305 39059 94887 89977 55672 24051 85705
41440 87370 24030 90502 97075 57827 19051
Attention, rpt msg, out

13375 kHz, 26-09, 1110 UTC
950/40 Attention
31059 71809 49018 34460 35595 44732 74557 46054 39570 78145
71819 63426 25570 19170 06721 77406 26611 73991 13068 51381
13936 04765 78347 24379 93229 90773 78563 01910 94305 13566
11947 88779 59441 51948 31416 48016 02262 34188 86379 04329
Attention, rpt msg, out

5194 kHz, 26-09, 1710 UTC
957/30 Attention
81111 15787 54052 19295 95520 37885 52032 51780 14199 72400
13336 77528 76360 25098 31199 71519 59835 26970 19508 88808
59421 19745 36847 61466 68246 22995 99112 30436 38385 29175
Attention, rpt msg, out

13375 kHz, 29-09, 1110 UTC
958/31 Attention
65337 27310 68948 07991 21579 53961 87777 12630 83761 32744
18123 49194 58386 27160 81168 83178 87147 35180 72978 52957
84534 04094 72338 32218 94741 86697 86618 85550 29450 52464
94597
Attention, rpt msg, out

5194 kHz, 29-09, 1710 UTC
959/21 Attention
46265 04504 39703 45597 32508 03528 91532 27095 06977 72640
22733 43701 97664 19498 03471 25437 36439 00165 63685 80999
75043
Attention, rpt msg, out

13455 kHz, 02-09, 1810 UTC
982/10 Attention 33812 59480 15490 16427 13644 92964 59312 89301 17652 18333 Attention, rpt msg, out

13375 kHz, 06-09, 1400 UTC
981/10 Attention 00598 31107 39109 25323 31864 70976 94162 44007 44629 30206 Attention, rpt msg, out

13375 kHz, 09-09, 1400 UTC
987/10 Attention 14015 17221 51045 33956 03529 16980 90275 55556 92516 20013 Attention, rpt msg, out

13375 kHz, 13-09, 1400 UTC
987/10 Attention 85477 67886 05676 52789 46588 14755 04166 07764 07656 67610 Attention, rpt msg, out

10213 kHz, 16-09, 0530 UTC
980/10 Attention 32483 24317 15993 16493 53407 50035 91736 23301 92402 05753 Attention, rpt msg, out

13375 kHz, 16-09, 1500 UTC
981/10 Attention 13493 79885 39211 72439 36749 77454 01101 95997 84820 24508 Attention, rpt msg, out

13455 kHz, 16-09, 1810 UTC
982/10 Attention 94896 55805 21241 34690 47441 96895 00089 58895 34500 44503 Attention, rpt msg, out

10213 kHz, 27-09, 0530 UTC
985/10 Attention 45668 25308 98348 83302 66891 75071 82391 62120 64093 92622 Attention, rpt msg, out

10213 kHz, 30-09, 0530 UTC
981/10 Attention 48337 98680 89402 04744 31760 98034 95087 42679 62491 45859 Attention, rpt msg, out

13375 kHz, 30-09, 1400 UTC
982/10 Attention 63161 32123 84825 22437 85759 63939 41896 81141 18605 94095 Attention, rpt msg, out

E17z

10240 kHz, 18-09, 1710 UTC
A very unusual transmission at an unusual time and frequency
274 (R) 2 stops. Restarts 274 (R). Stops.
Restarts. 856 856 30. Stops
Restarts. 856 856 30 30 81623 33878 89989 48557 31481 46385 34224 3782 30698 3069. Stops during repeat.
Restarts at 1720 UTC: 274 (R) 31481 46385 34224 33782 30698 35423 35844 41028 95477 47714 45124 91243 30383 38095 84978 35325 92141 43391 33722 33053 34379 48977 45437 52849 44186 36398 856 856 30 30 00000

8118 kHz, 18-09, 1734 UTC
Test tone followed by "274", so a repeat of 1710 UTC was expected. At 1738 UTC "274", after a few repeats off and carrier down, so no repeat.

GD sent me a note in which he mentions a transmission from April 2003. The call for that one was 274 with a 20 group message. It had the same problems as well cutting off half way through the message and starting the call 274 again. At that time it was a male voice. That is odd !!!

E25 / E25a

9450 kHz, 25-09, 1218 UTC
Enta omri 80 4 830 4 (repeated)
Message Message Message
Rebeat Rebeat Rebeat
End of Message
End of Transmission
Cut off music at the end

G06

5934 kHz, 11-09, 1830 UTC
579 (R) 832 832 20 20
37839 35787 98273 60187 16202 95625 31691 52538 61025 22567
93296 67423 40968 16891 63781 34820 04842 60491 75924 04594
832 832 20 20
00000

5442 kHz, 12-09, 1930 UTC
947 215 20
28132 75514 79881 94217 21443 31441 81797 17512 62689 33123
48932 93432 25729 93828 48883 18829 85252 49872 63962 24884
215 20 00000

S06

9070 kHz, 19-09, 0600 UTC
089 175 23
10498 10374 77209 06394 41049 51485 81853 11669 10805 82676
77521 26759 60918 61163 82495 79085 83557 98049 78640 84685
67476 54953 38277
175 23 00000

S06s

14212 kHz, 04-09, 1210 UTC with harmonics on 14188.7 and 14235.3 kHz
425 801 6 82232 11326 26585 43584 33291 83913 801 6 0 0 0 0 0
Followed by a pirate who says "Hello numbers station, can you copy?"
A recording of the transmission + harmonics is on the N&O website

A record with good audio from harmonic on 14235.3 kHz is available on the N&O website.
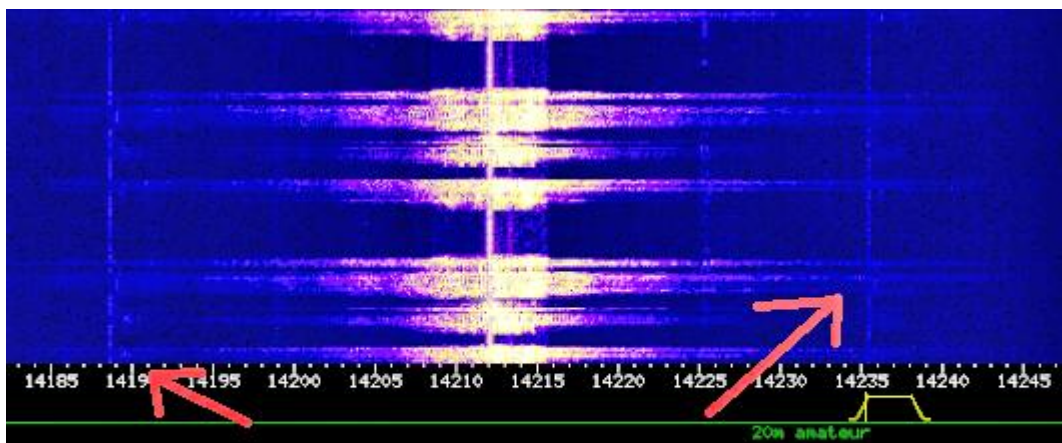
S06s - 1 September 2014 - Mon - 12:00 - 9145 USB - 831 267 5 46062 68672 97478 39685 79485
S06s - 1 September 2014 - Mon - 12:10 - 11460 USB - 831 267 5 46062 68672 97478 39685 79485
S06s - 8 September 2014 - Mon - 12:00 - 9145 USB - 831 267 5 46062 68672 97478 39685 79485
S06s - 8 September 2014 - Mon - 12:10 - 11460 USB - 831 267 5 46062 68672 97478 39685 79485

The groups from 1st/8th are very popular:
* [E17z] 2014-01-02, 08:00, 11170kHz: 674 908 5 46062 68672 97478 39685 30485
* [E17z] 2014-05-01, 08:00, 16780kHz: 674 801 5 46062 68672 97478 39685 30485
* 2014-05-16, 06:00, 7845kHz: 196 832 5 46062 68672 97478 39685 30485
* 2014-07-18, 09:30, 10290kHz: 516 208 7 46062 68672 97478 39685 39485 96632 52537
(Source: Danix)

S11a

5358 kHz, 02-09/05-09, 0455 UTC
328/36 Vnimanie
62810 90447 67173 16025 58286 32827 71257 50174 36753 55320
05709 48594 52704 55150 69479 41264 44353 14469 70842 90218
59076 26733 39757 76122 51768 85194 98935 87501 69104 73625
36476 31997 24887 61318 90713 90014
Vnimanie, rpt msg, konec

7317 kHz, 16-09/19-09, 0915 UTC
484/38 Vnimanie
42313 00185 85857 02881 23123 18664 71198 73376 26852 96945
39227 92100 68782 67687 01821 70553 06400 25267 43290 12753
18941 22856 51464 96919 96965 04514 08861 66015 14776 12661
89909 36749 70891 46472 94475 11100 52791 24851
Vnimanie, rpt msg, konec

9960 kHz, 09-09/12-09, 1020 UTC
422/34 Vnimanie
80355 78577 90428 08005 56092 58357 64382 35775 39409 49964
20481 72268 71204 66050 59771 41370 19056 04455 54154 82699
86992 02722 64476 85715 94844 01355 37853 24368 91098 96469
74239 61745 46390 49151
Vnimanie, rpt msg, konec

5815 kHz, 24-09/27-09, 1020 UTC
229/33 Vnimanie
26211 40412 97119 52215 52330 64076 23243 92828 94454 78045
92115 58506 10009 18796 96749 18321 90527 94173 32251 57871
38045 34706 96407 52146 96884 71160 60200 50702 96092 15626
93876 60388 23071
Vnimanie, rpt msg, konec

4016 kHz, 17-09/19-09, 1955 UTC
370/36 Vnimanie
35042 94802 79562 17576 46873 20441 30279 49035 63907 45192
49890 49362 98379 54730 11578 61995 06715 57668 30809 19415
27129 28940 40626 22433 78042 98675 92771 20239 80344 61085
28330 69033 35782 05414 94481 12976
Vnimanie, rpt msg, konec

S28 - The Buzzer

Mode: USB
Frequency: 4625 kHz

01-09, 1711 UTC	MDZhB 98 357 BASYeNNYJ 40 30 72 66 Priyom
02-09, 1350 UTC	MDZhB 94 574 MANGNETIZM 43 60 80 01
03-09, 1548 UTC	MDZhB 04 259 ZAPARAN 12 27 27 72
04-09, 1321 UTC	MDZhB 33 064 GERUNOK 68 40 89 78
04-09, 1323 UTC	MDZhB 16 162 EKSGORRAN 31 80 92 40
04-09, 1324 UTC	MDZhB 38 120 PASKOIT 77 24 82 09
04-09, 1347 UTC	MDZhB 38 143 GALBAN 84 23 29 62

```
08-09, 0928 UTC      MDZhB 44 553 NEUMNYJ 17 29 31 54
08-09, 1303 UTC      MDZhB 79 769 PODSTOChNYJ 26 82 06 66
10-09, 1128 UTC      MDZhB 96 534 KERMICIN 80 73 97 47
14-09, 1338 UTC      MDZhB 54 429 NARYVNYJ 34 20 77 18  GILTDIYa 11 18 11 93
15-09, 1431 UTC      MDZhB 25 481 SADZhA 21 34 96 02
15-09, 1616 UTC      MDZhB 29 161 NADAVKA 53 24 01 34
18-09, 2225 UTC      MDZhB 47 683 REVMANOL 40 30 72 66
18-09, 2308 UTC      MDZhB 32 689 GARDINOL 94 86 63 06
25-09, 0640 UTC      MDZhB 61 486 LAZhEK 43 60 80 01
25-09, 0915 UTC      MDZhB 86 277 YaGEL' 39 22 85 11
25-09, 1338 UTC      MDZhB 41 638 MARKOFAN 68 40 89 78
```

7057 and 7058.8 kHz, 07-09, 1400 UTC: Buzzer rebroadcasted by a pirate

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S30 - The Pip

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

Avare mailed me a link to Google street view pictures of the S30 transmitter site in Rostov-on-Don. You have a clear view of the antenna's: https://www.google.com/maps/@47.2985564,39.6753185,3a,75y,31.03h,84.81t/data=!3m4!1e1!3m2!1sHVbdmyF58u8ZuavF7WBVCg!2e0?hl=ru
Thanks for forwarding the link !!

```
5448 kHz, 01-09, 0353 UTC    Zh7NZh, YMA5, VTH3, AGDT, 'U1B, OSOG, BO6C, F56Shch, 9GSA, ZhBZU
5448 kHz, 01-09, 1332 UTC    8S1Shch 07 420 PAGLINOK 40 99 35 77
5448 kHz, 02-09, 1343 UTC    8S1Shch 91 182 ESTOVAL 32 45 61 22
3756 kHz, 02-09, 1659 UTC    CI9V, ZhSK4, 5FSShch, DEAY, DMC3, 49FT, C2ZA, LI27, INNC, ShchGJP
5448 kHz, 04-09, 1319 UTC    8S1Shch 66 620 BANANNIK 43 21 92 01
5448 kHz, 04-09, 1348 UTC    8S1Shch 35 800 MONTREL 86 27 89 80
3756 kHz, 04-09, 1638 UTC    ShchT-30, CIHS, Z7PM, 'O6P, JH'J, S7ZhG, Z'1B, CI9V, ZhSK4, 5FSShch
5448 kHz, 05-09, 1337 UTC    F61N, 37CN, MUDR, 7VNShch, Zh7NZh, YMA5, VTH3, AGDT, 'U1B, OSOG
3756 kHz, 08-09, 1642 UTC    V2MZ SB7Z 8MUO TUZR 5J7Shch 37Shch' N1DU 53OB 78MV 12CI
5448 kHz, 09-09, 0352 UTC    78AJ P'HShch 6EHB CP3' ShchT3O CIHS Z7PM 'O6P JH'J S7ZhG
3756 kHz, 09-09, 1901 UTC    ShchGJP 8CShchJ TZLM FY5E F61N Z7CN MUDR 7VNShch Zh7NZh YMA5
5448 kHz, 10-09, 1250 UTC    8S1Shch 59 701 GRADINKA 21 48 67 11
3756 kHz, 10-09, 1559 UTC    VKY1 HCLF 61HZh ZBIL L7O5 NLCE SB7Z 8MUO TUZR 5J7Shch
3756 kHz, 13-09, 1720 UTC    CIHS Z7PM 'O6P JH'J S7ZhG Z'1B CI9V ZhSK4 5FSShch DEAY
3756 kHz, 14-09, 1554 UTC    Z7CN MUDR 7VNShch Zh7NZh YMA5 VHT3 AGDT 'U1B OSOG BO6C
3756 kHz, 15-09, 1617 UTC    8S1Shch 02 946 GMINA 41 48 32 94
5448 kHz, 16-09, 0403 UTC    JH'J S7ZhG Z'1B CI9V ZhSK4 5FSShch DEAY DMC3 49FT C2ZA
3756 kHz, 17-09, 1727 UTC    V2MZ SB7Z 8MUO TUZR 5J7Shch 27Shch' N1DU 53OB 78MV 12CI
3756 kHz, 18-09, 1623 UTC    Z'1B CI9V ZhSK4 5FSShch DEAY DMC3 49FT 5J7Shch C2ZA LI27
3756 kHz, 18-09, 2205 UTC    8S1Shch 36 390 KALIL'ShchIK 60 91 73 28
3756 kHz, 18-09, 2225 UTC    8S1Shch 71 821 SOSLOVIE 94 65 44 50
3756 kHz, 21-09, 1719 UTC    6I2Zh ZhD9V CJ5C 42BV 81BR M7KS PMV5 L'GJ TshchSchchS VKY1
3756 kHz, 22-09, 1739 UTC    ShchT3O CIHS Z7PM 'O6P JH'J S7ZhG Z'1B CI9V ZhSK4 5FSShch
3756 kHz, 24-09, 1435 UTC    8S1Shch 22 110 STERID 14 38 93 75
3756 kHz, 24-09, 1644 UTC    L7O5 V'Z' NLCE V2MZ SB7Z 8MUO TUZR 5J7Shch 27Shch' N1DU
3756 kHz, 24-09, 1830 UTC    53OB 78MV 12CI 79AJ P'HShch 6EHB CP3' ShchT3O CIHS Z7PM
5448 kHz, 26-09, 0405 UTC    ZhBZU 4RVZ 3VS' DKJ1 6I2Zh ZhD9V CJ5C 42BV 81BR M7KS
```

S32 - Squeaky *Wheel*

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

3828 kHz, 01-09, 1713 UTC	Al'fa45 82 056 RUKOGAS 71 95 50 52 Priyom
3828 kHz, 02-09, 1517 UTC	STOROZh-62, YaHTA-94, KURGAN-40, RUZh'E-26, ROSA-64
3828 kHz, 02-09, 1735 UTC	SLIVA-94, UTES-94, DZhIGIT-46, FONTAN-34, PENZA-07, DUBLER-68, STAZhER-29
5473 kHz, 04-09, 1313 UTC	ALFA-45 80 949 PRISYaZhNIK 73 49 33 75
3828 kHz, 05-09, 1740 UTC	STOROZh-62, YaHTA-94, KURGAN-40, RUZh'E-26, ROSA-64
5473 kHz, 08-09, 1017 UTC	ALFA-45 51 077 PARAKChAN 02 85 86 13
5473 kHz, 08-09, 1021 UTC	STOROZh-62 YaHTA-94 KURGAN-40 RUZh'E2-6 ROSA-64
5473 kHz, 12-09, 1149 UTC	SLIVA-94 UTES-94 DZhIGIT-46 FONTAN-34 PENZA-07 DUBLER-68 STAZhER-29
3828 kHz, 12-09, 1542 UTC	SLIVA-94 UTES-94 DZhIGIT-46 FONTAN-34 PENZA-07 DUBLER-68 STAZhER-29
3828 kHz, 12-09, 1727 UTC	STOROZh-62 YaHTA-94 KURGAN-40 RUZh'E-26 ROSA-64 NEVKA-26 OTPOR-89 BIZON-64 KOVBOJ-39 ALEUT-09 LANDYSh-74
5373 kHz, 13-09, 1014 UTC	STOROZh-62 YaHTA-94 KURGAN-40 RUZh'E-26 ROSA-64 NEVKA-26
3828 kHz, 13-09, 1739 UTC	STOROZh-62 YaHTA-94 KURGAN-40 RUZh'E-26 ROSA64 NEVKA-26
3828 kHz, 13-09, 1856 UTC	Test count: 1 2 3 4 5 6 7 8 9 10
3828 kHz, 13-09, 1859 UTC	Test count: 1 2 3 4 5 6 7 8 9 10
3828 kHz, 13-09, 1901 UTC	Test count: 1 2 3 4 5 6 7 8 9 10
3828 kHz, 13-09, 2016 UTC	STOROZh-62 YaHTA-94 KURGAN-40 RUZh'E-26 ROSA-64 NEVKA-26
5473 kHz, 14-09, 1337 UTC	ALFA-45 17 362 BRIFORUK 29 54 36 64
5473 kHz, 15-09, 1025 UTC	NEVKA-26 OTPOR-89 BIZON-64 KOVBOJ-39 ALEUT-09 LANDYSh-74
3828 kHz, 15-09, 1626 UTC	ALFA-45 11 707 BOTVUShKA 27 76 33 89
3828 kHz, 15-09, 1906 UTC	STOROZh-62 YaHTA-94 KURGAN-40 RUZh'E-26 ROSA-64 NEVKA-26
3828 kHz, 16-09, 1519 UTC	SLIVA-94 UTES-94 DZhIGIT-46 FONTAN-34 PENZA-07 DUBLER-68 STAZhER-29
3828 kHz, 16-09, 1904 UTC	STOROZh-62 YaHTA-94 KURGAN-40 RUZh'E-26 ROSA-64 NEVKA-26
3828 kHz, 18-09, 1740 UTC	STOROZh-62 YaHTA-94 KURGAN-40 RUZh'E2-6 ROSA-64 NEVKA-26
3828 kHz, 18-09, 2210 UTC	ALFA-45 90 403 DRYaHLYJ 71 33 10 42
3828 kHz, 19-09, 2229 UTC	ALFA-45 43 236 TREDZhEN 27 10 76 46
3828 kHz, 21-09, 2114 UTC	OTPOR-89 BIZON-64 KOVBOJ-39 ALEUT-09 LANDYSh-74
5473 kHz, 22-09, 1016 UTC	KURGAN-40 RUZh'E-26 ROSA-64 NEVKA-26 OTPOR-89 BIZON-64 KOVBOJ-39 ALEUT-09 LANDYSh-74
3828 kHz, 22-09, 1730 UTC	KURGAN-40 RUZh'E-26 ROSA-64 NEVKA-26 OTPOR-89 BIZON-64 KOVBOJ-39 ALEUT-09 LANDYSh-74
3828 kHz, 24-09, 1639 UTC	ALFA-45 06 783 SEKSTET 86 53 08 44
5473 kHz, 25-09, 1306 UTC	ALFA-45 33 778 POLINOVKA 69 95 34 43
5473 kHz, 25-09, 1317 UTC	STOROZh-62 YaHTA-94 KURGAN-40 RUZh'E-26 ROSA-64
5473 kHz, 26-09, 1240 UTC	SLIVA-94 UTES-94 DZhIGIT-46 FONTAN-34 PENZA-07 DUBLER-68 STAZhER-29
3828 kHz, 26-09, 1504 UTC	ALFA-45 31 497 ENOL 84 42 12 32
3828 kHz, 26-09, 1519 UTC	SLIVA-94 UTES-94 DZhIGIT-46 FONTAN-34 PENZA-07 DUBLER-68 STAZhER-29
3828 kHz, 26-09, 1846 UTC	STOROZh-62 YaHTA-94 KURGAN-40 RUZh'E-26 ROSA-64 NEVKA-26
3828 kHz, 26-09, 2008 UTC	OTPOR-89 BIZON-64 KOVBOJ-39 ALEUT-09 LANDYSh-74

V02a
Dirección General de Inteligencia

V02a was heard twice in September.

9065 kHz, 01-9, 0800 UTC	Tuning at 0752z then into V02a YL/SS 5FGs
7554 kHz, 11-9, 2004 UTC	YL/SS w/5F grps in LSB

V07

Token noticed that in September, when the transmitter first comes online, about half an hour before the first transmission, the signal has come up in AM and with music for a few seconds. The music has been in Russian and could be from the Voice of Russia. Later, when the signal shifts to the second frequency, it again comes up in AM for a few seconds. The AM signal is always about 1 kHz lower than the frequency for V07. On 28 Sept, Token recorded the transmission and has put it on his Youtube channel: https://www.youtube.com/watch?v=uFT5y17f1sU

16037/14637/12137 kHz, 14-09, 0300/0320/0340 UTC
661 661 661 1 682 95 682 95
74123 74425 31941 05033 92973 13759 13321 82717 47421 32298
23427 43389 33523 49235 90102 24392 19345 17888 38550 23959
33342 77001 39399 22023 77831 52810 47302 85914 45431 32345
03579 33908 29114 70097 97923 35702 33041 15339 25308 18277
87113 13344 75205 40842 34373 24870 55497 33435 93334 32031
44322 80892 07952 81345 32807 73589 98325 45392 12431 48582
42334 02144 42823 59823 33425 17037 90797 97133 83539 42333
52374 98031 33132 44145 00020 29377 80429 80119 93949 27028
17817 98344 95207 14015 30831 21733 53222 33183 42443 17974
02874 98870 74202 22273 79315
000 000

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

Frequencies: 7654, 7688, 8300, 9276, 9522, 9725, 10182, 10522, 11430, 13750, 15388 kHz

Schedules per 1 July 2014

13750 kHz	0200-0230 kHz	New Star 1		15388 kHz	0800-0830 kHz	New Star 4
13750 kHz	0300-0330 kHz	New Star 1		9725 kHz	1200-1230 kHz	New Star 4
8300 kHz	0500-0530 kHz	New Star 3		9725 kHz	1300-1330 kHz	New Star 4
8300 kHz	0600-0630 kHz	New Star 3		Note: not all the skeds are always on the air		
15388 kHz	0700-0730 kHz	New Star 4				

VC01 - Chinese Robot
Chinese Air Defense

Modes: USB and LSB

The station changes its frequencies frequently. Known frequencies:
3036, 3749, 3837, 4075, 4165, 4175, 4180, 4258, 4343, 4410, 4422, 4427, 4480, 4530, 4580, 4726.5, 5114, 5195, 5232, 5288, 5303, 5328, 5330, 5343, 5393, 5592, 5700, 5742, 5799, 5802, 5820, 5832, 5892, 6209, 6479, 6771, 6840, 6858, 6860, 6949, 6960, 7090, 7351, 7608, 7684, 7726, 7739, 7744, 7756, 7770, 7792, 7864, 7865, 7880, 7890, 7924, 7938, 8000, 8025, 8046, 8170, 8779, 9000, 9129, 9169, 9192, 9290, 9340, 10508, 17392 kHz.

The station was heard on 8046 kHz on 07-09, 0950 and 1634 UTC
11-09, 0703 UTC, 13-9, 0710 UTC, 16-9, 1530 UTC

V24

I have put together a new schedule for station V24 for the fourth quarter of 2014. Usage is still very sparse, about the same number of time slots in use as 6 months ago. Note that in the last couple of months I have not seen the alternate month (evens and odds) time slots used that were started a couple of years ago.

M94 has still not been seen in well over a year. V24 may be reactivating the long used 5715 kHz frequency, as one transmission was noted on that frequency in the last 2 months, with no others in the previous nine months.

T!
Mojave Desert, California, USA

V24 and M94 schedule, forth quarter, 2014

V24/M94 schedule Version 8.0

Day	1240	1300	1330	1400	1430	1500	1530	1600	1630
1									
2									
3									
4									
5					6310		5290		
6			6215		6310		5290		
7									
8									
9									
10									
11									
12									
13									
14									
15			6215		6310				
16			6215		6310				
17									
18						4900			
19						4900			
20									
21							5290		
22							5290		
23									
24									
25			5715						
26			6215						
27									
28									
29									
30									
31							4900		

Note reactivation of long time frequency 6215 kHz. Transmission on 5715 on the 25 day of the month seen only one time, and may have been an error, 6215 kHz was anticipated during that time slot. Several transmissions during the monitored dates showed either low audio or no audio.

MORSE STATIONS
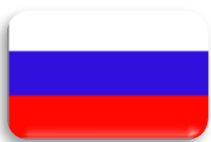
MX
Russian Military beacons

Current cluster frequencies:	Cluster beacon slots:
3594, 4558, 5154, 7039, 8495, 10872, 13528, 16332, 20048 kHz	**.7 "D", Sevastopol**
	.8 "P", Kaliningrad
Other frequencies:	**.9 "S", Severomorsk**
L 6917.5, 8497.8 kHz	**.0 "C", Moscow**
V 3658, 4150, 6809, 6928, 7027.5 kHz	**.1 "A", Astrakhan**
R 4325.9, 5465.9 kHz (seldom reported these days)	**.2 "F", Vladivostok**
W, R, L, K, Z 5835, 8112, 8162 kHz (Air Force)	**.3 "K", Petropavlovsk Kamchatskiy**
	.4 "M", Magadan

8497.9 //6917.9 kHz, 11-13 Sept., defective "L" beacon sending "CFCÖFC"

Beacon "U", unid location, was active in September on 7603.3 kHz on 09-09, 1225/1427/1634 UTC and13-09, 0714 UTC.

M01

M01, 4590 kHz, 01-09, 1810 UTC
420 (R4) 173 173 30 30 = = = =
09504 19167 29273 67806 97278 70737 80301 57225 85937 24716
04382 96572 39019 44813 05459 22406 97478 83655 62333 98086
03985 85545 23444 89431 59258 06385 96841 37583 05702 36121
= = = = 173 173 30 30 000

M01, 4590 kHz, 01-09, 1915 UTC
771 (R4) 231 231 30 30 = = = =
06657 48674 21395 93695 35949 00518 24970 35529 92310 44015
40858 46613 07191 85255 23408 06046 32784 04807 589?? 84648
74457 44808 21636 25840 72619 79249 30949 82313 37301 73802
= = = = 231 231 30 30 000

M08a
Dirección General de Inteligencia

See logs section.

M12

The transmission speed seems to depend on the schedule. M12 transmits with a speed of 25 and 30 WPM.
Currently 25 WPM appears to be used on these schedules only:

- Monday, 19:00/20/40, 9176/7931/6904kHz (ID 257)
- Tuesday, 13:10/30/50
- Wednesday, 21:00/20/40
- Thursday, 18:00/20/40, 10343/9264/8116kHz (ID 124)
- Saturday, 05:00/20/40 (repeat of Wednesday, 21:00/20/40 with a different ID)
- Saturday, 13:10/30/50

All other schedules are 30 WPM.   (source: Danix)

11435/10598/9327 kHz, 01-09, 1600/1620/1640 UTC
938 1 7022 117
96371 07487 17913 59588 91074 35085 53100 22432 05389 98593
17887 90951 54168 32131 46428 59654 43019 05463 97245 21408
07458 50647 89001 90404 20193 54051 33506 62309 58634 17174
86234 76531 93225 73068 40078 37244 65859 45072 11566 03682
38445 16486 19344 22579 05684 78246 99819 73586 06990 97133
54376 89821 14431 12266 68939 89375 79991 10013 45376 82039
05940 22688 65768 96603 95686 70759 16797 51675 60844 45474
41404 90483 20169 55606 56320 14020 72063 40217 93241 50358
80315 46741 57783 73281 53367 27040 85158 46422 91886 59640
60134 25678 36539 45212 26181 51189 98055 04968 58467 03052
66537 98101 50212 57628 59351 19293 27452 84810 89281 84862
79079 37054 54871 04506 22869 09578 36014
000 000

8047/6802/5788 kHz, 01-09, 1700/1720/1740 UTC
463 1 9546 146
05601 41401 61392 46554 60968 25051 64778 12486 72758 19621
19552 99860 17444 57631 65568 73678 89542 65104 88570 52003
48499 83612 86689 48165 59605 46751 58536 50488 17184 43205
46405 18823 64207 55242 00605 83415 56236 44211 02112 46893
62835 40960 68815 73487 46955 19191 50446 90265 23717 01034
81514 64348 44952 15459 22303 21509 14677 33583 01456 15689
24790 27816 59957 62510 71499 40118 72350 44427 88827 56986
69851 16192 61952 98711 55673 85987 59220 16802 63670 07584
16987 59065 46411 51447 89292 89241 20755 41738 56001 16098
55578 78118 35932 37000 67384 71775 04808 54304 21937 15797
52073 91212 90303 50943 41426 94879 85126 36068 63094 29443
28570 96281 50271 67676 43718 27557 34156 34315 68213 65661
22542 97484 71905 11519 94506 23724 91950 28143 87129 37427
08831 66745 08060 42347 75909 61884 01065 68108 89847 95819
70590 21942 66272 78031 06079 42141
000 000

9176 /7931/6904 kHz, 01-09, 1800/1820/1840 UTC
257 1 3122 61
67457 94140 00812 89264 59149 46572 26065 60481 32272 10415
95072 03144 48388 72129 24817 67728 11875 93997 97499 26329
69008 64310 17860 25174 28432 19694 05285 71610 31799 03676
77278 37065 25632 23874 76057 15579 71487 02435 59461 18080
44698 10022 80003 14571 68436 23152 40078 14404 32194 24479
65453 40550 23511 22585 85084 41651 64767 65499 08478 83995
85690
000 000

10343 /9264/8116 kHz, 02-09, 1830/1850/1910 UTC

124 1 8554 59

56159 98885 06498 65650 48729 52883 82619 94958 26009 21297
35918 56409 27569 85242 15031 01589 66169 39678 52075 83105
47735 90670 91380 05123 85369 04049 83659 26116 94025 12677
11956 97314 90352 44910 32855 14763 79677 12664 68725 99119
79778 62952 66974 83818 04522 73431 87491 99677 43122 04902
21309 91453 96100 71788 20856 10776 48196 11315 03163

000 000

8047/6802/5788 kHz, 03-09, 1700/1720/1740 UTC

463 1 4057 77

67880 27253 54009 38010 32918 24025 94541 42522 16654 17089
35256 02014 03232 85456 73516 51064 45648 12819 22797 43459
81151 75439 98286 46155 29321 65759 76303 00464 41981 7??43
8?959 48741 35517 60243 01122 88541 87570 74302 40756 33665
30984 12798 71878 51331 97115 33644 77653 70783 70678 90835
18671 84857 61042 28168 11100 87420 40828 72201 25863 04706
99132 84045 21379 57143 81077 74230 84783 15929 22471 77910
40194 48023 63139 74851 48742 61577 02426

000 000

11435/10598/9327 kHz, 03-09, 1830/1850/1910 UTC

938 1 3706 65

63483 56754 65003 30161 45304 42372 59595 74547 18940 05744
46207 54841 53055 73122 31711 66630 60710 40558 41863 75960
29995 82752 39544 97587 29673 93279 41981 87206 03681 51643
56263 20866 34646 09947 42620 33086 54308 74326 21258 50555
05469 90362 12201 95967 52666 30131 72243 82625 60604 61815
31416 92251 05107 56080 85503 90991 41461 30916 06851 93564
43594 86953 25877 94106 28959

000 000

13873/13373/11473 kHz, 04-09/06-09, 1310/1330/1350 UTC, sent at 27 WPM.

834 1 6657 155

93233 04114 36459 79687 22800 15321 10561 92742 27574 01713
83930 06867 59884 15769 91063 62663 30246 79481 49814 74466
03994 52931 68388 14728 33996 22874 52279 88150 07914 12925
34248 02928 18981 11120 05792 48958 26274 29920 26306 67204
22259 85901 78769 47403 04398 ??639 22788 16589 32445 13765
70729 96112 73920 17006 48780 82224 65626 51831 53640 55010
05235 77348 90765 10838 77839 62397 47207 64956 07655 42238
44296 56617 14614 29707 48778 56531 39053 76227 97720 55490
78756 02858 83133 1??96 35527 50565 05765 28857 98601 16631
70339 49003 34352 87520 92530 44741 24592 12546 88174 69146
14001 03259 16489 52573 39955 82505 66243 33856 22834 54378
10718 92373 12492 64619 35451 28278 89605 78150 36960 14078
70154 12719 56547 69773 00758 05860 07404 64451 13738 98284
65321 69341 99733 19507 89399 83122 14778 34242 17608 70849
31974 21366 94062 19433 97714 69119 51743 21835 86160 08019
29815 94696 65176 12050 01755

000 000

13386/12189/11491 kHz, 04-09, 1600/1620/1640 UTC
725 1 9336 109

76745 82352 59528 82200 66524 98823 07933 71651 13769 67001
15154 91770 26143 81864 16738 04942 29636 56066 99489 73872
59826 72028 22491 04135 58664 05774 64132 40597 71227 84514
56708 54214 11278 67485 38377 97260 08982 41125 77802 22112
21289 47566 45141 48222 10607 97968 69549 16891 75080 12460
00082 10979 87630 19852 02434 51911 76601 60633 76844 38714
83817 31039 12217 11523 28836 47991 30377 38766 14454 98337
41049 46987 65672 07143 89958 14109 92535 58454 37918 02086
10556 02017 24333 72136 36816 01239 14151 14054 94962 32403
32670 12704 65833 57395 63783 14412 43771 83052 61466 77577
19408 37479 91110 18573 49541 07404 60342 14570 69079
000 000

11435/10598/9327 kHz, 08-09, 1600/1620/1640 UTC
938 1 8860 109

32643 54861 24659 64172 03585 93387 29642 90102 37008 58248
21976 09646 98533 53660 61529 26504 20349 55135 78995 37155
95558 96675 98122 27954 83460 08229 52292 42070 51527 ??380
11569 84033 67861 37602 56583 10954 85870 69211 55537 41192
76921 74105 06434 62978 43730 86076 87705 72757 51268 00066
03707 21964 36973 80980 92082 14618 14980 86748 30465 31182
70852 46600 11883 03332 27435 44881 45641 47287 79054 95806
27563 65495 81793 10584 21596 08227 15248 18782 99787 48601
73545 22469 36057 16151 41140 38945 06072 87072 09011 13995
99378 34394 12463 35755 82876 73253 79258 19503 13260 75123
00275 07660 68??2 75610 34695 20863 42537 97619 93676
000 000

8047/6802/5788 kHz, 08-09, 1700/1720/1740 UTC
463 463 463 1 4528 155 4528 155

99268 49017 72234 66329 62579 77929 88831 04243 46167 56122
68999 89473 44601 95763 01425 54434 64610 65530 89109 51677
69698 58277 45126 57562 95174 24293 31618 45655 63731 51308
22256 08954 58292 28954 99041 81903 35892 43087 42530 58732
67039 34291 64084 20778 73439 27550 57133 23247 66245 92014
26233 38204 57745 14174 47596 38221 39270 16254 98300 17407
69440 81238 20062 00868 53204 59517 56676 66393 52175 22152
91201 52199 52508 19214 95504 95480 85450 51070 07872 90558
19534 21091 69952 78637 21008 27131 00499 72998 46638 89308
83481 12694 23125 50977 01972 76017 50576 00300 06617 77161
10271 00985 16477 32029 43366 61885 24326 75672 46917 87086
42426 40381 78539 14653 08627 26493 51982 93729 35254 84919
86126 20477 79810 13099 57535 13798 64890 11702 73734 02052
07048 87599 18836 64463 79435 68904 37562 84977 41975 03740
06850 59144 42481 40708 85904 22674 66024 07502 02397 73574
74434 32687 32882 15528 71365
000 000

9176/7931/6904 kHz, 08-09, 1800/1820/1840 UTC
257 257 257 1 7114 58 7114 58

10376 15452 97950 92330 70799 75788 33488 36203 56648 19656
94469 19722 18878 44903 47508 81437 24181 61381 61128 34977
60127 34566 57570 62406 80985 13518 47820 27680 63521 02770
59511 42721 48750 61855 85797 75482 36300 16561 75819 25852
29495 77906 43615 64469 59933 65061 67478 52852 73247 25883
90486 00260 72313 24940 28018 98598 32085 41179
000 000

9176/7931/6904 kHz, 08-09, 1900/1920/1940 UTC
257 257 257 1 9856 102 9856 102
67110 94796 42170 55014 98569 14232 05371 12813 08927 26090
87737 30291 25032 35551 61137 17514 26324 05333 65914 24305
61908 31185 89526 91423 55630 48074 95293 70256 46668 91043
31989 75941 92973 36706 98894 24677 06352 46319 39846 83788
45961 59922 30709 27217 13514 91747 91022 93214 58777 82493
28493 62144 50909 24385 48174 69544 22019 14093 80069 25616
03369 27011 19218 43031 19597 25039 43908 38722 85305 50336
95438 22921 13509 42225 39817 78811 20100 34141 30795 71514
13281 20490 60197 69488 22098 35622 11388 77906 24365 30922
09190 40706 60033 24132 28803 36847 69537 96585 54395 81377
39983 49582
000 000

8047/6802/5788 kHz, 10-09, 1700/1720/1740 UTC
463 463 463 1 3426 100 3426 100
03733 92814 24963 14236 34485 46746 65738 14238 30208 90616
19710 65580 79732 21386 75165 84337 26493 53905 62767 39701
94714 49793 80764 36560 15451 69647 33073 95266 80291 14435
10046 01181 37154 03152 53874 98864 61724 87041 64252 02880
25225 04437 92195 25512 06348 31975 20220 31657 98190 34827
66974 32614 35996 17976 96071 15199 63976 41360 65877 51487
67630 30549 13151 74225 46295 07254 47223 51279 35518 36220
24645 84560 79100 13997 21183 72940 91874 80489 34976 04048
19932 55945 92050 82859 45833 81590 66016 10462 39380 69228
08555 77243 52419 39345 56347 11497 57397 50430 79287 99331
000 000

8116 kHz, 11-09-2014, 1840 UTC
124 124 124 1 7920 119 7920 119
32670 15007 48595 74788 79840 52292 76618 58416 71487 36181
00441 04581 58548 26730 50730 94886 55447 01104 75432 00710
79708 28728 54491 59752 04997 29901 50364 43560 31737 74561
65045 86177 22495 54358 79504 35204 73347 42119 89037 33 886
38111 35709 08877 60443 43844 29020 30378 30637 14689 66902
08977 94190 84942 85815 70117 64230 59939 39983 46089 25922
34343 19174 33931 32545 88343 47132 95378 99624 82031 37597
67572 33658 58294 38867 16123 02443 56975 92504 16225 91438
59498 03991 41897 22512 53121 77857 79728 23859 97479 96668
56524 02462 37178 19616 64847 66427 45048 79847 23731 00073
80536 99987 27119 53980 86956 55328 49647 99279 00079 30173
88841 50797 18951 26278 03772 21470 80946 11892 89093
000 000

11435/10598/9327 kHz, 15-09, 1600/1620/1640 UTC
938 1 8605 116
75262 22821 66459 36215 56284 36278 49122 78556 22134 37843
91578 93751 27571 99895 63283 74041 61747 89751 19840 58315
56320 53194 65785 65568 63145 15009 56126 10319 38??9 68806
15629 57728 23061 98954 13217 29589 23900 81416 53310 1?527
37898 48361 34197 81428 12154 98649 69361 39521 16048 15709
83448 89480 19799 85684 95872 61509 38374 37144 26934 74181
62909 68400 90871 06971 69746 16239 61338 23842 83143 87341
92410 57058 03090 18405 77053 81090 18363 72634 65551 59686
49703 84939 69608 41322 09866 93103 85680 73481 16970 92397
62413 75277 29012 39387 82515 34371 34455 73554 81708 36850
02065 11596 36825 95640 68841 71304 69263 82087 10550 56469
03356 81389 ?6004 939?9 29216 48172
000 000

8047/6802/5788 kHz, 15-09, 1700/1720/1740 UTC
463 1 8636 142

56034 39262 55108 68732 09727 21947 63763 21690 68733 62810
13146 46926 40030 09499 36157 96735 79995 55273 35243 14608
76203 88335 88794 34558 25828 09696 01270 31040 51363 21941
11690 15651 26282 52018 57978 29494 18940 09599 19565 35584
90225 00915 42964 11680 57672 00747 29731 32091 27482 74889
60790 03675 76388 47847 45390 22126 33962 61045 04594 94387
77588 23992 10485 78725 02668 85264 50843 36227 85080 12101
70452 52891 50431 47153 68788 26985 40964 65069 71645 72488
73341 83413 16580 86416 03375 40343 73431 43909 69836 49153
42199 34096 72334 59201 43255 78978 41500 55937 13304 67366
83113 06512 65439 18010 92609 07301 04804 06093 26415 91482
59090 60435 09568 19912 47845 80624 14361 43425 31153 01078
35173 86609 45715 66556 29464 31140 50539 27446 28854 43609
36474 93129 29117 25247 11541 07339 76149 05764 10152 26074
99845 50117
000 000

9176/7931/6904 kHz, 15-09, 1800/1820/1840 UTC
257 1 4729 54

67182 20456 67673 81295 39584 33341 78515 52066 36001 81179
69610 14399 05641 36885 71016 55254 84537 94990 24078 01245
99100 59700 19658 02920 28219 28629 36234 81111 26291 78875
62813 07145 55072 96613 55507 17945 45815 66987 28670 02201
43108 16202 62063 70561 86151 51352 47805 96196 06662 70101
09427 95247 45931 22858
000 000

9176/7931/6904 kHz, 15-09, 1900/1920/1940 UTC, sent at 25 WPM
257 1 731 83

39634 40490 55975 61521 97428 66430 94276 25047 87777 95883
50624 76089 06579 38806 54841 56643 77618 66834 85397 43207
18880 09803 31145 57430 77025 92376 27847 82825 20008 59823
51841 92840 26515 41949 98741 00152 17268 99220 97363 85322
54557 72913 75790 94113 07305 36899 98252 54881 72145 42577
03662 47654 23472 48976 64560 76302 42883 97??? 72915 62088
83725 51515 59849 23988 63680 79034 65578 75733 64674 02463
72473 10297 62755 90072 09770 82999 89513 96673 80698 29608
14290 85481 54777
000 000

8047/6802/5788 kHz, 17-09, 1700/1720/1740 UTC
463 1 4515 84

97469 74625 02770 70762 96148 25069 43087 17440 74710 06131
53107 83936 37403 93937 07349 82644 93510 85988 19066 21861
20983 32697 28044 95634 91330 80474 36811 29102 44702 48114
76??? ??656 83058 79313 36728 05412 64818 47668 06782 76265
05099 23425 52779 43024 11145 22359 76785 31985 35420 34327
80699 48879 05460 64325 52340 53403 24200 74465 08004 20161
45325 18415 08166 35715 73847 00168 52764 00901 00524 42728
32747 94518 92805 93038 13589 51220 93477 37794 55790 77222
74589 23301 44747 99724
000 000

11435/10598/9327 kHz, 17-09, 1830/1850/1910 UTC

938 1 3674 67

55787 80480 42607 41180 77272 53225 02890 91917 71594 58610
46488 90160 09097 71826 91953 65325 72756 25754 92941 16613
72659 64212 75473 19437 28106 00301 84918 26266 86406 80727
51553 62891 97691 35086 72400 78894 29929 98272 13739 33500
83294 48116 12521 64965 73919 24082 24518 43465 66626 28448
46719 70824 77378 33592 71291 48348 44893 46526 14541 96386
20918 14355 92000 58514 73077 52126 21013
000 000

6793/5893/4593 kHz, 17-09, 2100/2120/2140 UTC, sent at 25 WPM

785 1 491 85

56076 11656 32177 58851 94395 03231 18524 56064 36156 63084
71806 82822 87681 82126 79298 04328 81834 65988 20671 64196
42489 74165 85199 59836 71366 72018 02705 12249 61793 78094
35790 03077 51951 69293 18061 38853 08013 62345 46457 90289
26523 71166 17467 83405 40105 68778 78725 55484 54565 01487
68010 68155 35871 13317 02454 61693 20029 72890 51317 24391
14490 53372 59885 11831 15921 36521 36910 59590 03799 36646
90530 48315 99694 52062 74791 59465 90233 66528 00338 44964
77336 10450 05089 98428 16875
000 000

11469/10469/9169 kHz, 17-09/20-09, 2110/2130/2150 UTC

441 1 4730 155

49177 75119 45810 91766 75085 46719 44202 67639 28586 76626
43997 34622 49494 96221 11079 78440 62252 19429 84359 28501
59646 51560 17293 76757 13300 87925 84777 11468 63979 25814
04156 11026 63140 96689 35417 14167 69210 00048 81423 86802
56543 32791 11590 64656 00401 06260 29687 96265 11691 97201
32810 58250 39238 92686 91670 57153 97298 32551 33398 18754
77241 13663 71224 27812 51898 29052 93162 19823 90482 65678
11230 34930 45241 05037 97045 42484 63265 17809 93538 82481
68951 91226 23585 30107 99531 93973 14308 87421 61503 80239
65346 95260 45105 85503 12178 83241 70640 39135 89233 83304
50710 29872 87280 03167 67482 93133 79646 08493 54365 50990
28308 58293 97280 39479 44846 71520 41801 03350 44806 48622
41977 92239 59285 66894 55076 42952 35691 05605 20097 27271
52623 02795 88142 23402 35836 71858 86945 45543 52408 65800
75393 54863 88648 66232 76362 88466 33714 75710 17084 11863
29873 52956 78250 11030 90536
000 000

13873/13373/11473 kHz, 18-09/20-09, 1310/1330/1350 UTC, sent at 27 WPM

834 1 2463 107

07018 87343 53178 39129 85029 12411 78567 12446 59012 18937
26468 25337 07284 96467 45114 38554 95085 42167 55866 89920
47128 23276 95609 32140 94651 21629 07471 15350 74500 95508
32193 83180 48903 41251 39509 30090 69145 98898 87958 86788
39431 04803 38066 83681 87706 50795 24812 44761 51989 60563
69258 87683 44123 78023 18581 23060 82027 66617 41077 99723
08688 65228 73919 53114 52183 25446 46420 15443 78937 66522
58291 57985 12196 71008 01672 63895 22400 59729 43484 66442
84076 04424 94368 44532 76448 12427 86018 09688 32396 56917
48708 18071 37912 82200 08088 93472 99014 40554 75783 26444
88739 43427 17689 27186 01121 70070 21356
000 000

13386/12189/11491 kHz, 18-09, 1600/1620/1640 UTC

725 1 2558 110

27915 75231 96661 57276 82937 15477 90751 62108 07061 13980
63695 84365 19557 86099 65039 61618 29994 40003 94890 34619
27459 37967 29059 80650 08511 41310 82125 17610 41067 84065
95416 25160 74145 60753 80978 79166 97324 42955 33729 71883
61792 96278 74952 06710 48459 67498 36124 57229 65188 35819
39063 00213 84610 92323 89682 18200 77278 64537 41358 41953
46928 90100 22311 35896 73136 24140 90798 39428 36091 36085
70050 50316 96140 52654 37121 93594 18703 99553 ??183 08733
44570 ???79 63698 14295 27115 30338 58427 53463 07880 85119
37729 53145 85960 34912 17522 86203 46407 14429 87543 69057
53185 51428 48151 16102 02618 89345 77007 40060 61477 70811
000 000

9176/7931/6904 kHz, 18-09, 1700/1720/1740 UTC

257 1 7381 58

94219 11306 39938 66108 58952 60371 26735 83163 99503 07367
75341 10559 93430 34454 30555 42898 05426 46866 48449 29351
64072 88589 26498 71559 09384 78170 72638 98287 39416 63029
03448 75216 21415 77623 11811 96192 13164 67426 61521 76460
53327 17730 64156 95655 71072 65089 89698 81095 41596 24568
30075 50531 98511 87678 06496 93048 04547 20719
000 000

8115 kHz, 18-09, 1840 UTC

124 124 124 1 731 83

39634 40490 55975 61521 97428 66430 94276 25047 87777 95883
50624 76089 06579 38806 54841 56643 77618 66834 85397 43207
18880 09803 31145 57430 77025 92376 27847 82825 20008 59823
51841 92840 26515 41949 98741 00152 17268 99220 97363 85322
54557 72913 75790 94113 07305 36899 98252 54881 72145 42577
03662 47654 23472 48976 64560 76302 42883 97534 72915 62088
83725 51515 59849 23988 63680 79034 65578 75733 64674 02463
72473 10297 62755 90072 09770 82999 89513 96673 80698 29608
14290 85481 54777
000 000

8176/9376/10476 kHz, 20-09, 0500/0520/0540 UTC

Sent at 25 WPM. Repeat of Sept. 17th 21:00/20/40 with a different ID.

134 1 491 85

56076 11656 32177 58851 94395 03231 18524 56064 36156 63084
71806 82822 87681 82126 79298 04328 81834 65988 20671 64196
42489 74165 85199 59836 71366 72018 02705 12249 61793 78094
35790 03077 51951 69293 18061 38853 08013 62345 46457 90289
26523 71166 17467 83405 40105 68778 78725 55484 54565 01487
68010 68155 35871 13317 02454 61693 20029 72890 51317 24391
14490 53372 59885 11831 15921 36521 36910 59590 03799 36646
90530 48315 99694 52062 74791 59465 90233 66528 00338 44964
77336 10450 05089 98428 16875
000 000

8047/6802/5788 kHz, 24-09, 1700/1720/1740 UTC

463 1 1995 73

18666 89635 55538 59343 81443 75117 21778 93235 57329 86196
75574 58757 01495 06949 92660 97703 65004 22605 97854 89806
02362 02636 34195 45332 37217 80617 46859 13119 22834 90521
06955 44015 47319 28830 90915 45780 35231 00774 02860 65242
42199 23450 29203 36439 29057 98756 09998 49676 35584 88511
84932 46494 68708 38104 96058 79816 39269 63674 95153 39642
32566 07483 83405 14662 97145 26072 34376 48562 ????? 10387
09761 82703 58143

000 000

11435/10598/9327 kHz, 24-09, 1830/1850/1910 UTC

938 1 8939 62

28776 65356 61179 60890 22031 85758 46416 61801 18452 50229
65860 28702 10725 71219 40979 10915 44723 02380 17735 78277
93822 87530 09478 24992 77166 90704 55048 23748 97669 64259
12403 65668 56473 40817 64404 38577 26025 20911 02227 24143
13092 45019 58617 18071 17438 54318 27982 82385 81349 29603
46466 40802 41865 89689 30288 61655 45263 39167 99301 92959
05962 53836

000 000

10343/9264/8116 kHz, 25-09, 1800/1820/1840 UTC, sent at 25 WPM

124 1 3735 119

22237 62755 97892 50370 84193 98492 51511 65266 39542 10036
97600 12226 37827 72669 76345 19195 17649 37150 04011 22929
00798 52168 87960 65492 22103 57084 08796 02014 87408 20404
36590 93002 37770 15160 14922 74344 81405 33510 38431 06279
90007 58198 10489 95977 03371 09894 39026 04636 40292 69528
08246 97230 55096 75091 82035 58868 18810 86330 64649 60654
34958 93443 47937 32956 30114 64157 38172 44688 14894 16892
99707 67709 30183 11585 40579 40339 50473 15405 36297 30906
90384 75645 05482 71835 67537 39220 41142 05017 30397 46770
41403 43333 01514 86360 59325 59980 36688 28155 00041 30628
44460 61800 36703 49086 20382 54134 15108 57322 40066 28401
35631 65313 01783 83420 60904 17466 81735 39849 13285

000 000

11435/10598/9327 kHz, 29-09, 1600/1620/1640 UTC

938 1 6879 113

60909 17774 84740 40801 87347 95967 47140 12720 84264 57488
41028 52944 36334 32060 30018 98889 89288 81899 96932 14022
34115 23010 87384 67634 76258 30308 90830 91008 86315 14512
63358 00494 91543 91103 94141 76648 96960 15053 20446 00246
82049 92869 70476 75607 32661 46569 25646 29699 66747 60580
37531 72198 66125 69345 94215 29070 50251 91144 87841 08866
84520 84297 73980 43420 42870 12355 38299 05269 82861 07453
18514 83491 22208 22673 10805 74246 32359 58130 16253 01304
85849 17131 50190 26416 44560 93163 89492 00223 46235 03???
????? ????8 86538 62462 61294 89822 43482 84252 30115 28418
72377 57104 26262 46274 41095 43499 39817 72366 55169 08429
17077 88201 27847

000 000

8047/6802/5788 kHz, 29-09, 1700/1720/1740 UTC

463 1 8515 145

88597 17662 18434 39074 07523 69864 05794 22102 89096 61874
81069 75862 36064 00548 93764 51155 37662 15264 61769 33639
88819 94840 91698 17861 17281 93473 33395 80820 77319 56371
48571 62632 23477 64074 21847 46162 21896 67993 88336 29906
02425 11935 21487 43933 86294 30650 85143 97212 01065 22671
65886 77007 73186 12489 42726 99114 32574 38218 49647 43067
33219 83227 16716 8484? 29005 35426 1778? 24599 95572 87202
07417 43621 69982 47698 72306 97627 29454 10534 33539 99108
81764 06585 45299 72502 76640 05447 78337 15057 98688 32689
48662 54846 23015 12027 41086 29644 94563 80380 09413 74396
84282 30188 63364 35030 11230 26813 30254 04735 18172 73740
90955 55398 94177 21087 51348 46578 39601 72589 70170 26452
04117 91855 82952 02942 02662 45599 71424 96972 95678 62753
29378 80384 89207 43243 89720 56520 38345 53598 58202 19200
15479 17356 95754 87168 00064

000 000

9176/7931/6904 kHz, 29-09, 1800/1820/1840 UTC

257 1 8327 59

11124 75991 29758 90522 57630 60807 41085 47013 81019 86911
78741 36609 38597 55047 10386 33756 7702? 2???? 3??45 29948
47639 96944 71108 80153 71609 64062 20826 07087 45108 81726
24775 62?55 90739 21610 67548 85503 12472 42947 97104 66418
59622 41500 44072 44842 97806 15546 52677 92399 79240 31983
32233 20346 93288 3?974 83315 10415 34861 38649 67005

000 000

9176/7931/6904 kHz, 29-09, 1900/1920/1940 UTC, sent at 25 WPM

257 1 6273 117

08806 13758 90472 24448 16191 56942 69598 29265 84583 61119
42616 75836 50901 53825 07189 75826 68496 86613 97387 03367
53703 52599 22490 65042 60711 91181 38963 09731 93908 29512
30234 00779 44264 54641 35202 25536 34478 62152 00436 48033
83007 58927 98913 91234 29878 70156 89336 46426 23704 56711
25170 89777 70785 72700 39288 82694 29269 68775 99525 33734
94379 08284 91540 00133 16281 25132 46990 42796 95283 57503
30083 47415 51401 15463 04946 76506 84497 27412 84596 25833
5985? ????? 88269 77246 66013 04148 23326 12827 03426 92125
83944 94233 58666 28458 27842 17724 33901 61378 02141 58042
86508 52706 64179 02153 20632 86608 54617 06632 50310 16467
77152 22864 35037 12740 42841 51358 38788

000 000

10343/9264/8116 UTC, 30-09, 1830/1850/1910 UTC

124 1 4355 58

63386 05656 21542 38016 47253 27278 28532 52456 44562 41957
93559 71038 75824 63414 04702 84807 31191 87677 38605 21841
68736 52822 83307 87364 80532 63781 32542 67908 91597 42233
31401 28694 75390 17915 08566 92165 83346 06174 45366 01426
33557 06594 82919 10516 27362 88439 44620 19710 14487 09019
16834 73071 41360 34545 82283 98311 82429 29182

000 000

M14

5464 kHz, 10-09, 1920 UTC
537 (R) 385 020
51059 23438 76167 45680 94045 26295 92184 44625 57552 67851
95578 17869 75794 68461 80694 32456 21369 84274 96823 17105
385 020 0000

10423 kHz, 18-09, 1233 UTC i.p.
00307 33014 76181 38701 85230 01672 09515 35254 13181 57088 13650 34818
23713 64628 82293 15470 27703 56091 36531 68052 81481 98753 15846 80489
52186 40870 99381 12831 36721 25244 67532 73955 89025 44296 71051 35871
35324 99871 46548 82053 37676 68812 27235 46159 65392 = =
461 59 00000

M51 / FAV22
8éme Régiment de Transmission

9213 kHz, 14-09, 1426 UTC
```
NR 12 S 09 16:26:35 2014 =
PWZSK SIGKK NAJZB ZCWOW FEOXI OYDFI BOQVU MMJHJ DVBHH MWOGR
CZLJD DLSOE OEDZO ZGEWS HYOLF JPQUL DZXAE FSRXS JYXJK IYJWM
DYVFM TFLLA KGPGN LYDOH DYDWU EQHTZ FPTVX LZZEI UMRQO YOIAA
KVVPM CPEER BQXMW JEDLL KLMIF OLJQK LEPKZ YELLK VLKNO SKDQX
MFCYU HDBTU IEDHB EYZAJ HFZSM IUOEY YPBJP PGNBH KIIPR LCOHU
UXTNN VUTMV QDHCK VDVYN DQPAJ LMESA VFHXK NMDGM WEDLI NZMDT
RFCQS VDDTK HHSBL TMVAH VMDST YHEPB ZCDYC XMPLP MJWEJ CCMZM
NVEKC KIEXJ GGAGT MZJXE AQJXX RLWEX VZDFP UBRNB MTJPS HSZAX
IDTNA BNYAZ RINES YJMKT UYUBM POXCZ ZSFCL HTJGH GUPVN HGLYY
TLHNG DOPBN ANLGC OAPPV EETRW CZAIC GBCGB ZRATD TNVUS RGXJU =
```

M89
Chinese military

6813 kHz, 15-09, 1420 UTC: M89 voice transmission.
Logged by JPL. Script by westli. Recording on the N&O website.

Comments by westli:
Funnily formatted number messages with two guys repeating back and forth. Where I can tell the difference, I just used 1- and 2- to identify the speakers. It would make the most sense for gu to be the number 9, which is normally pronounced gou for radio. But I heard a couple of 'gou's, too. So it seems to mean something else. It might be some kind of reference. Like saying the gu is 2. Where I heard gu yao, that would mean that the gu is 1. It's a mystery to me.

1- 70031 gu liang	2- 70031 gu liang gu 731
1- gu 722192	2- (rpts) 7944
1- 794415 gu liang	2- (rpts) 7004
1- 70041 gu liang	2- (rpts) 9626
1- 9026192 *)	2- 9334192 71 7904
1- 7944192	2- (repeats) 7111
1- 71116 gu liang	2- 71116 gu liang 8433
1- 191313 60	
1- gu liang 40	
1- 7541 60	2- 710 gu yao 92221
1- 2533	
1- 7541 432306	2- 75 ge 168
1- 7541 87 7491	2- 87 7491
1- 72 233 33	

*) it's sometimes hard to tell if they are saying 'gu liang' or 92, which is 'gou liang'

Roundslips and callsigns

V A7TR A7TR A7TR DE DI9Q DI9Q	V SR3H SR3H SR3H DE FGH8 FGH8
V 5RAB 5RAB 5RAB DE M9AB M9AB	V SXL6 SXL6 SXL6 de 9QFZ 9QFZ
V 7NPE 7NPE 7NPE DE QV5B QV5B	V TKLO TKLO THLO DE TYUI TYUI
V 6TRW 6TRW 6TRW DE J9NS J9NS	V TY9D TY9D TY9D DE EOX2 EPX2
V 7NPE 7NPE 7NPE DE QV5R QV5R (faulty transmission)	V VTX7 VTX7 VTX7 DE TZ7B TZ7B
V 8CPZ 8CPZ 8CPZ DE XW6W XW6W	V VXL1 VXL1 VXL1 DE XIW2 XIW2
V 8DKB 8DKB 8DKB DE ODY8 ODY8	V WZG6 WZG6 WZG6 DE 4VTG 4VTG
V 8PEX 8PEX 8PEX DE TI5F TI5F	V YUQW YUQW YUOQ DE ASDF ASDF
V BNGC BNGC BNGC DE XSV85 XSV85	V ZRM7 ZRM7 ZRM7 DE LCM0 LCM0
V BIQ9 BIQ9 BIQQ9 DE ISL2 ISL2	V N4FM5 N4FM5 N4FM5 DE DUT491 DUT491
V BRH0 BRH0 BRH0 DE 8NGG 8NGG	V Q5U8 Q5U8 Q5U8 DE 8QPP 8QPP
V CQ CQ CQ DE DP91 DP91	V QHV8 QHV8 QHV8 de 8QPP 8QPP
V DKG6 DKG6 DKG6 DE 3A7D 3A7D	VVV Q2M Q2M Q2M DE NYZ NYZ
V DP9J DP9J DP9J DE CQ CQ	
V EI0B EI0B EI0B DE JHG2 JHG2	XW2P DE XWB5
V GKLO GKLO GKLO DE TYUI TYUI	BFE3 DE JK8S
V GKN7 GKN7 HKN7 DE F3J5 F3J5	DU7S DE XWB5
V H2FL H2FL H2FL DE DRV8 DRV8	BFE3 DE NMGB
V JKDJ JKDJ JKDJ DE SLBC SLBC	XSD4 DE XWB5
V M8JF M8JF M8JF DE RIS9 RIS9	BFE3 DE BGH8
V MW3D MW3D MW3D DE 2SLC 2SLC	AQF4 DE XWB5
V N4FM5 N4FM5 N4FM5 DE NAT491 NAT491	BFE3 DE QXR4
V PGG9 PGG9 PGG9 DE MI6Y MI6Y	BFE5 DE VGT7
V RA5J RA5J RA5) DE BP2S BP2S	XM2P DE XWB5
V RXP7 RXP7 RXP7 DE CZT2 CZT2	R BFE5 DE PKZA5
V S2LZ S2LZ S2LZ DE YBA6YBA6	

Messages:

6666 kHz, 01-09, 0215 UTC

1754 = = MPT7/RY8 AR
FFFF NR 6078/EX 1754 = = MPT7/RY8 AR (0216z - Silent)
R CY
FFFFF 9EEEEEEE
FFFFF NR 9078/EX 1048 = = ACF4/IKB6 AR
FFFF NR 9078/EX 1048 = = ACF4/IKB6 AR
FFFF NR 9078/EX 1048 = = ACF4/IKB6 AR
CY
FFF NR 7246/EX 1123 = = PUM2/DBV3
FFF NR 7246/EX 1123 = = PUM2/DBV3
FFF NR 7246/EX 1123 = = PUM2/DBV3 AR
CY
FFF NR 6152/EX 1326 = PRS2/QCE4 AR
FFF NR 6152/EX 1326 = PRS2/QCE4 AR
FFF NR 6152/EX 1326 = PRS2/QCE4 AR
CY
FFF NR 7085/EX 0635 = SYK7/IHO2 AR
FFF NR 7085/EX 0635 = SYK7/IHO2 AR
FFF NR 7085/EX 0635 = SYK7/IHO2 AR
CY
R
FF NR 9768/EX 0928 = MGO8/NZP7 AR
FF NR 9768/EX 0928 = MGO8/NZP7 AR
FF NR 9768/EX 0928 = MGO8/NZP7 AR
CY
FF NR 6909EX 0755 = CYL3/WO8 AR
FF NR 6900/EX 0755 = CYL3/WO8 AR
FF 6900EX EEEEEE
FF NR 6900/EX 0755 CYL3/WO8 AR
CY
FFF NLEEEEEEEE
FFF NR EAI T
FFF NR 6578/EX 1035 = EXT6/CW8 AR
FFF NR 6078/EX 1035 = EXT6/CW8 AR
FFF NR 6078/EX 1035 = EXT6/CW8 AR
CY
FFF NR 1142/EX 1105EEEEEEEEE
FFF NR 1142/EX 1100 = NWC4/TBN2 AR
FFF NR 1142/EX 1100 = NWC4/TBN2 AR
FFF NR 1142/EX 1100 = NWC4/TBN2 AR
CY
FFF NR 012EEEEE
FFFF NR 0615 T/EX 9E
73U73U. (0243z)
FFF NR 0615/EX 0715 = M1OT/VS7Y I =
FFFF NR 01.IIIIII
FFFF NR 1I T
FFF NR 0615/EX 7
FFF NR 0615/EX 0715 = M1OT/VS7Y
FFF NR 0615/EX 0715 = M1OT/VS7Y AR
FFF NR 0615/EX 0715 = M1OT/VS7Y
CY CY
FFFF NR 2158/EX 0126 = NO2V/WS3U
FFF NR 2158/EX 0126 = NO2V/WS3U
FFF NR 2158/EX 0126 = NO2V/WS3U AR
GA GA GA GA GA GA GA GA

6813 kHz, 15-09, 1417 UTC

(i.p. III III III W W WKUSB
WK USB WK USB (Switched to SSB USB - 1418z)

8012 kHz, 13-09, 1011 UTC

11 1 830 T
NNI S NR 691A CK 3IOO EX O913 1812 (Using the letter O for Zero)
OK GA = = = = =
7001 = = =
IO IE = = = =
703D 4A6U 5N6A 7N3T 4U5D 7N4. (Cont'd)

6666 kHz, 08-09, 2238 UTC

QSA ? QSA 4 HR MSG GA PSE CY (2239z)
NR 00.2 CK 100 24 0517 2345 = = (Normally 0517 is month/day which should be 0909)
357N AUD4 AUN7 7TD3 5NA6 ADNT U463 T657 453T (Cont'd)
(Weaker station now active in background - 2247z)
5U7N 63DT 6D34 4? 374U A465 AIII
= 47NA 34T6 35U4 5N6A 5DTA 746D 37TU 73U
(Weaker station still in background sending tfc - 2250z)

6666 kHz, 11-09, 2223 UTC

NR 001/EX 0618 RMKS 6199 TO 4199 =
BBC4/F2LI AR QSL ? K
R QSL 0621 HR QSEEEE R A EEEEE R QSL 0621 HR QRJ U QSY TO 4455 K
VV VV VXL1 VXL1 VXL1 DE XIW2 XIW2 QSA 2 K
R QS EEEE
VVV VXL1 VXL1 VXL1 DE XIW2 XIW2 XIW2 K
VV VXL1 VXL1 VXL1 DE XIW2 XIW2 XIW2 K
VV VXL1 VXL1 VXL1 DE XIW2 XIW2 QSA 2 K
VV VXL1 VXL1 VXL1 DE XIW2 XIW2 K

6677 kHz, 11-09, 2233 UTC

VV BIQ9 BIQ9 BIQ9 DE ISL9 ISL9 ISL9 K
VXL1 VXL1 ADE EEEEE EEEEE
R UXL1 V EEEE
R VXL1 VXL1 DE XIW2 XIW2 R QSA 2 QSA ? K
(XIW2 has now changed to this frequency)
R HR QRJ U QSY TO 5555 K
R HR QRJ U QSY TO 5555 K
R AS

8072 kHz, 12-09, 1016 UTC

98 AR =
SVC QRJ 86 . O 3.. FM 501EEE AR 190. =
907 AR
FM 5.02? 5 QSL ? K HR NR 05

10252 kHz, 12-09, 0957 UTC

i.p. AD 4UNDA UND4 UU37D AU3..3U.N73.4TU6 . 453D
UUUUUUUUUUUUUUUUUUUUUUUUE
= 4TN5 5.34 .A3. N3T7 D.TA UNAA DU7.. 3N5A 633A .. (Cont'd)

6936 kHz, 13-09, 1023 UTC

UU5T N6T4 TA73 TUA4 3657 T4DA D733 T7UA (Cont'd)
= = = III III III
NUT3 TTTA N7UA N4DU NAAU 457A N4A4 (Cont'd)
III III = = =
N6A4 AUT5 N7UA N4DA TA3A N73U 7TTA U6TA (Cont'd)

8940 kHz, 13-09, 0200 UTC

CQ (x3) DE DP91 (x2) V (Cont'd)
(A 2nd DP91 R/S now up in background - 0206z)
HR NIL SK GB (0208z - Silent - 2nd DP91 R/S still active)
HR NIL SK GB(x6)
(The operator put both // frequencies on the same frequency!)

8012 kHz, 13-09, 1011 UTC

11 1 830 T
NNI S
NR 691A CK 3IOO EX O913 1812 (Using the letter O for Zero)
OK GA = = = = =
7001 = = =
IO IE = = = =
703D 4A6U 5N6A 7N3T 4U5D 7N4. (Cont'd)

10334 kHz, 14-09, 1044 UTC

0914 1825 NR 0EE
NR 011 CK 2.9 24 0914 1841 RMKS 4407 TO 4448 K
GA GA K
RPT =
U37. ? U37F ? U375 D65T N.. (Cont'd)

5500 kHz, 15-09, 1431 UTC

FM 5?35NU V
7NT46 7NT46 7NT46 DE FM5?35NU FM5?
35NU V
7NT46 7NT A (Appears to be having problems with R/S)
7NPE de QV5B (x2) V
7NPE (x3) DE Q

5648 kHz, 15-09, 1410 UTC

1KL2/GHI1 = (Normally associated with exercise)
JKL2/GHI1 K R K
R QSL 12.. K
T OK
R MSG A 7G NR 2.. NR 44 CK 99 .. ...2.0 RMKS ..9 TO ....59 K
GA
R .... (Fading badly)

5555 kHz, 16-09, 0911 UTC

AR AR
05 05 05 (Sent extremely slow)
AU34 ...4567DN
123456789
AU34 5678 T.0 AR TEN
05 05 05
NR TF T7T4 CK 61 35 T916 1655 =
TTNN 5UT. ? TU5N 53TA DN54 7TTT A474 66T5 6TDN (Cont'd)

7609 kHz, 16-09, 0943 UTC

T533 3DA4 DDN6 D573 DU34 34TA (Cont'd)
III =
UT6U N5DD A5UA 6NA7 A5DN 5UD7 (Cont'd)
III =
TAAU 5453 D4A. 4UUN DD4U 5UAD ADTT (Cont'd)
III =
.... 3N46 ADD3 TA.7 3TA3 NU56 (Cont'd)

6636 kHz, 17-09, 0216 UTC

NTT3 6TD4 D733 NNNA N376 TTT3 T4UA NNNA N376 TTT3 T4UA
T643 NNN5 NUNU N553 N7UA TU5U T5DA T74U NNNA TAAA TTT3
T47A NNNA 7TUU T7NU N4A4 TA63 T336 T7UU TDN6 NUU6 NNNA
NA44 TTT3 N54A N434 NNNA NUT5 T344 TTT4 NUT5 D733 NNNA
N376 TTT3 T4UA NNNA N376 TTT3 T4UA E7.5 N.AA UA37 T.DU NNNA
T6TU TTT3 T443 NDUA T377 TTT5 N7UA NNNA N33U TTT4 T554 TTT4
7433 T453 T74U N4A4 NUA4 N553 N7NN T4TU N7UA III III III III III =
(Note large number of repeated groups)
N75U TTT4 NNNA T6TU TTT3 TD? T3DA TTT4 NNNA (Cont'd)
N433 N7UA TD75 T575 NNNU T6N4 7ATA T7T (Stopped)
N 5 T E S
= = = = = = = = = TTT = =
TTTU NDUU N73U N7UA N4A4 3TT5 T6AA N555 N573 N6D5 N474 D733
N474 N433 N7UA TD75 T575 NNNU T6N4 7ATA T7NU (Cont'd)

6666 kHz, 24-09, 0231 UTC

EA7U 5N6T 4D5N 6U7T 3D4A 7T3D 4A5U (Cont'd)
IIII = 654T 567N 3U4T 5D6N 7A3U (Cont'd)
III = 6A4. 5D7N 3U4T 5D6N 7A3U (Cont'd)

10181 kHz, 14-09, 0050 UTC

56A4 AN67 U656 37N3 DN3A AN5A 7TN3 ND45 (Cont'd)
III =
744A AU74 D45A 5TD6 3UU3 NDUA N6TU D3DN (Cont'd)
AR
K K K K R R
53W = 7TTU 7TTU AR K
AGN
75W = 5A67 5A67 AR K
R R
45W = ND45 ND45 AR K
AGN

10892 kHz, 14-09, 0116 UTC

KQGB KQGB KQGB DE GYW7 GYW7 K (Cont'd)
QSA 4 QSA ? K
NIL QRU ? K
QAP K
R
HUZ8 HUZ8 HUZ8 DE GYW7 GYW7 K (Cont'd)
QSA 4 QSA ? K
NIL QAP U
QAP K
R

6719 kHz, 15-09, 0921 UTC

75AT DD4A 447N D565 33U3 NAU6 (Cont'd)
= 4UN4 57
= 4UN5 5734 5A3D N3T7 (Cont'd)
..5A =
4UN5 = 4UN5 5734 5A3D =
4UT.. UD37 55A4 .77U (Cont'd)

6719 kHz, 16-09, 0157 UTC

CQ (x3) DE DP (x2) V (Missing 91 from callsign)
Pse YYOYY TC HR FREQ WK AHR NIL SK GB
PSE YK O YK TC HR FRREQ WK AHR NIL SK GB
PSE YK O YA TC HR FR AHR NIL SK GB
DE DP6991 (Another station on freq)
PSE YK O YA TC HR FREQ WK AHR NIL SK GB
PSE YK O YA TC HR FREQ WK AHR NIL SK GB
PSE YA O YA TC HR FREQ WK AHR NIL SK GB
APSE YA O YA TC AR HR FREQ WK AHR NIL SK GB
DE DP6991 QSA 2 U ?
VVV DP91 DP91 DP91 DE DP6991 DP6991 CL R K
DP6991 QSA 3 NIL
R DE DP6991 QSA 2 NIL
DP6991 QSA 3 NIL
NIL SK SK GB GB

5801//10180 kHz, 16-09, 0146 UTC

AR QSL ? HR WK NR 31
VV HR SVC ZEEEEE
VV HR SVC GA
NR 009/ZXT93RMKS 2083 TO 2286 2177 2173 EEE RMKS 2083 TO 2286 2177
2172 =
BGN COMM/1000/LZ367/2086/228621772272P QSL ? HR M EEEE HR WK NR
31 (Return to roundslip - 0148z)

5215 kHz, 25-09, 2228 UTC

NR 003/EX 067 RMKS 5160 TO E EEEE RMKS 5160 TO 5864 K
R E GA K
R R QSL EEE R QSL 061 EEEE R QSL 0631 K
R HR A EEEE R HR QRJ U QSY NR 03 K
HR QRJ U QSY NR 03 K
VV ZCJ0 DE 0RP2 K (2233z) (Zero and not the letter O)
R AS

4241 kHz, 22-09, 1336 UTC

VV XW2P DE XWB5 K
R R BFE. DE JK8S R QSA 2 QSA ? K
R QSA . AS K
R AS
VV DU7S DE XWB5 K. VV DU7S DE XWB5 K
R B.SR BFE3 DE NMGB R QSA 4 QSA ? K
R QSA . AS K
R K
VV MSG GA
NR 020/EX CK 91 46 0922 2..0 RMKS CQ = =
7T5D ..T6 UT.6 DUN4 6N.. (Fading)
AR
VV XSD4 DE X.B5 VV XSD4 DE XWB5 K
R AEEE R BAEEE R
BFE3 DE BGH8 R QSA 1 QSA ? K
R QSA 2
HR WK NR 12 K
R R PT 22W K. R RPT 22W = DBET ? D6U7 D6U7 AR K
R RPT 29W K. R RPT 29W = 3DDT 3DDT R K
RPT 30W K. R RPT 30W K (Cont'd)
R QSL 2137 K
R HR WK NR 03 K
R U EEE R HR WK NR 18 K
R NIL NIL SK K SK
VV Y5EEEEE VV Y5I. DE XWB5 K
BFE3 DE .NSD QSA 2 QSA ? K
R QSA 2 K
R RPT 4W K (Cont'd)
R QSL 2141 K
R HR WK NR 18 K
R HR WK NR 13 K
R HR NR 13 K
R NIL SK K SK
VV A..2EEEE VV AQF4 DE XWB5 K
R BFE3 DE QXR4 R QSA 1 QSA ? K
R QSA 2 K
RPT 42W K (Cont'd)
R QSL 2139 K
R NIL EEE R QSL 2.. K
R QSL 2133 EEE QSL 214..EEEE R QSL 213EEEE R QSL 2142 EEEEE
HR WK NR 18 K
R HR WK NR 21 K
NIL SK SK
VV .. DE 3EEEEE VV DJRT DE XWB5 K
R BFE5 DE VGT7 R QSA 2 QSA ? K
R QSA 3 K
R RPT 1W K (Cont'd)
R QSL 2205 K
R ...EEE R QSL 21.. HR WK NR 18 K
R QSL 2143 HR WK NR 18 K
R R HR WK NR 32 K
R NIL SK R NIL SK
VV XM2P DE XWB5 K
R BFE5 DE PKZAEEEEE QSA 2 QSA ? K
R QSA 2 K
RPT 90W K (Cont'd)
R QSL 2145 K
R HR WK NR 18 K
R HR NR 41 K. R NIL SK. NIL SK
VV .7U DE XWB5 K

6719//8940 kHz, 22-09, 0955 UTC

CQ CQ DP91 V
CQ (x3) DE DP91 (x2) V.
HR HR NIL NIL SK SK GB GB

(8940 and 6719 came up at different times, stop at different times and
endings sometime differ. Almost like 2 different operators are operating these
skeds)

7182 kHz, 22-09, 1148 UTC

ANU3 6AU6 6735 T645 D6ND (Cont'd)
III =
TNUA D7.4 4U34 N36A 6DUA (Cont'd)
AR
58W TO 59 K
= =.U5E 4NN6 3NT5 6UDU N646 5.37 35TD (Cont'd)
K R . 1W = ... AR K
9W = TA.4 AR K (Cont'd repeat groups)
R R 9W = TA64 AR K
R R SK GB

8062 kHz, 22-09, 1718 UTC

673D 6A5T 73DN DU73 6U7D 7D6A (Cont'd)
III =
6.A7 5TDN 6.6A A.UN 3A6E (Cont'd)
AR
R R R 13W = 347T AR K
R R 11W = T7U3 K (Cont'd to repeat groups)
R SK GB

6719//8940 kHz, 24-09, 1001 UTC

A DP E A E A A ... A DP91 CQ V
DP91 (x3) DE CQ (x2) V (Cont'd)
A CQ DP91 V
CQ (x3) DE DP91 (x2) V (Cont'd)
DPE
PSE NQ KKK NQ LL TO HR AHR NIL SK GB (x3)

5314 kHz, 25-09, 1438 UTC

N34T T74T TNDN UD35 N7ND 7D7A (Cont'd)
AR
R QSL 2... K (Both stations on this frequency)
R QSL 224. K
R U MSG GA K
AS
R
GA NR 100 CK EEE
MSG NR 100 CK .. 0.. 5 3240 RMKS .... TO .316 K
R GA K
R 1W . =
NDA. 5..D 46D6 .4A6 (Cont'd)

6719//8940 kHz, 25-09, 0156 UTC

BB CZ CZ DE (Handsent - probably CQ CQ)
X CZ
A CQ DP91 V
CQ (x3) DE DP91 (x2) V (Cont'd)

6719//8940 kHz, 25-09, 0159 UTC

CQ (x3) DE DP91 (x2) V (Cont'd)
PSE YK X YK TC HR FREQ WK AHR NIL SK GB (x4)
DP6691 DP91 CLR K
DP91.. 91 QSA 2 U ? K
KP918191 QSA 2 U ?
DP6691 DP BT 1AN
4 KA918191 QSA 2 U ?
KP9.8191 QSA 2 U ?
KP91..91 QSA 2 U ? K
PSE YK X YK TC HR FREQ . AHR NIL SK GB
PSE YK X YK TC HR FREQ WK AHR NIL SK GB SK GB
DP6691 DP91 CLR K
VV DP6691 DP91 CLR K
R R 61 E R R 6691 QSA 4
DP91 QSA 2 NIL
NIL SK GB GB

MC03
Chinese Air Defense

4308 kHz, 14-09, 1510 UTC, grid tracking

5089 kHz, 15-09, 2129 UTC:
556 U47N7A 54DU73A AT6 UD
556 U47N6U 5ND7DUD AAU UN
556 U3TN7D 7TN3444 AT4 UN
556 U3TN6T 54.64UN ATN UN (Cont'd)

UM01
Unid CQ station

JP found the CQ station again. We had not heard it for over a month. Not sure if it was off the air or simply not audible due to bad conditions. It is still only audible via the R9O remote receiver in Siberia.

Frequency: 3580 kHz. Sends long zero's
Also heard on 7161 kHz on several days. 7161 kHz is a harmonic of 3580 kHz.

11-09, 2213 UTC CQ P 5	17-09, 2359 UTC CQ P 10	
12-09, 0215 UTC CQ P 5	18-09, 0003 UTC CQ P 10	
12-09, 1027 UTC CQ P 5	18-09, 0222 UTC CQ P 11	
12-09, 1541 UTC CQ P 5	18-09, 0838 UTC CQ P 14	
12-09, 1840 UTC CQ P 5	18-09, 2106 UTC CQ P 7	
12-09, 2054 UTC CQ P 5	19-09, 1258 UTC CQ P 5	
14-09, 1100 UTC CQ P 13	19-09, 1339 UTC CQ P 5	
14-09, 1320 UTC CQ P 13	19-09, 1759 UTC CQ P 4	
14-09, 2215 UTC CQ P 13	19-09, 2032 UTC CQ P 4	
15-09, 0153 UTC CQ P 12	21-09, 2043 UTC CQ P 3	
15-09, 0849 UTC CQ P 9	21-09, 2248 UTC CQ P 3	
15-09, 0931 UTC CQ P 8	22-09, 1036 UTC CQ P 7 (//7161 kHz)	
15-09, 1406 UTC CQ P 8	22-09, 1158 UTC CQ P 7 (mostly unreadable on 7161 kHz)	
15-09, 2125 UTC CQ P 4	22-09, 1326 UTC CQ P 7 (mostly unreadable on 7161 kHz)	
16-09, 0141 UTC CQ P 3	22-09, 1606 UTC CQ P 7 (barely audible on 7161 kHz)	
16-09, 0219 UTC CQ P 4	22-09, 1810 UTC CQ P 7	
16-09, 0927 UTC CQ P 9	22-09, 2058 UTC CQ P 7	
16-09, 1417 UTC CQ P 8	23-09, 0051 UTC CQ P 7 (//7161 kHz)	
16-09, 2333 UTC CQ P 5	23-09, 0155 UTC CQ P 7 (//7161 kHz)	
17-09, 1533 UTC CQ P 10	23-09, 0936 UTC CQ P 11 (//7161 kHz)	
17-09, 1642 UTC CQ P 10	24-09, 0944 UTC CQ P 11 (//7161 kHz)	
17-09, 1731 UTC CQ P 10	24-09, 1550 UTC CQ P 10	
17-09, 1929 UTC CQ P 10	24-09, 1809 UTC CQ P 10	

UM10
Unid 10-minutes net

12-09, 3880 kHz, 1849 UTC   LEQA
12-09, 3285 kHz, 1849 UTC   LEQA
12-09, 3312 kHz, 1852 UTC   B4NR
18-09, 3880 kHz, 2118 UTC   LEQA
21-09, 3285 kHz, 2045 UTC   LEQA

VARIOUS MODES

HM01
Dirección General de Inteligencia

See logs section.

M42 & X06   Russian Government & Intelligence

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

A new system popped up in September. Possibly run by the GRU. See the Unid stations section for more info.

M42

16320/14880 kHz, 12-09, 0150/0230 UTC, FSK 200/1000
Link ID 13366 Msg Number 000 : Msg Type 13364 : Group Count (?) 0 16384 00001 00000 01852 15647 53132 00256 14461
Link ID 41018 Msg Number 245 : Msg Type 07145 : Group Count (?) 245 32768 00999 39882 33201 05302 01008 63531 01673
Link ID 57402 Msg Number 245 : Msg Type 08169 : Group Count (?) 247 32768 02023 39886 33201 31990 05104 63503 03977
Link ID 57726 Msg Number 245 : Msg Type 07149 : Group Count (?) 245 32768 00743 49114 33777 21686 00752 63531 01673
Link ID 57722 Msg Number 245 : Msg Type 07145 : Group Count (?) 245 32768 00743 40910 33073 29942 00752 63547 01673

Freq.	Date	UTC	remarks	mode
19145	1-9	0844	Russian diplo	CROWD-36
9197	2-9	2100	Russian diplo/intel. Msg on link 45057	FSK 200/1000
6795	4-9	1731	Russian Gov/Intel. Mark after every 50th group. CW ops-chat after RTTY: OK OK AS AS R K K	Baudot 50/500 + CW
7813	5-9	0649	Russian Gov/Intel. Mark after every 50th group.	Baudot 50/500
17441	6-9	1200	Russian diplo/intel 7 31	FSK 200/500

Freq.	Date	UTC	remarks	mode
15845	6-9	1210	Russian diplo/intel 7 31	FSK 200/500
13506	6-9	1220	Russian diplo/intel 6 41	FSK 200/500
9239	11-9	1900	Russian diplo/intel 6 55	FSK 200/500
6903	11-9	1910	Russian diplo/intel 6 55	FSK 200/500
5087	11-9	1920	Russian diplo/intel 6 55	FSK 200/500
16320	12-9	0150	Russian diplo/intel. Messages on links 13366, 41018, 57402, 57726, 57722	FSK 200/1000
14880	12-9	0230	Russian diplo/intel. Messages	FSK 200/1000
16242	14-9	0802	Russian diplo	CROWD-36
9116	15-9	1617	Russian diplo	CROWD-36
14631	17-9	0843	Russian diplo	CROWD-36

X06

frequency	enigma	Date	UTC	remarks	frequency	enigma	Date	UTC	remarks
12152	X06	1-9	0731	Mazielka. Sequence: 432516	18660	X06	10-9	1044	Mazielka. Sequence: 621543
18750	X06	1-9	0746	Mazielka. Sequence: 641523	14944	X06	10-9	1110	Mazielka. Sequence: 621543
20675	X06	1-9	0756	Mazielka. Sequence: 641523	16153	X06	11-9	0815	Mazielka. Sequence: 153624
20675	X06	1-9	0756	Mazielka. Sequence: 164532	9106	X06	11-9	1544	Mazielka. Sequence: 564213
20336	X06	2-9	0752	Mazielka. Sequence: 165423	14863	X06	12-9	0956	Mazielka. Sequence: 615243
18206	X06	2-9	0854	Mazielka. Sequence: 154263	9076	X06	12-9	1540	Mazielka. Sequence: 215346
16115	X06	2-9	0905	Mazielka. Sequence: 154263	16242	X06	14-9	0802	Mazielka
20334	X06	2-9	0909	Mazielka. Sequence: 154263	18750	X06	15-9	0737	Mazielka. Sequence: 641523
14875	X06	2-9	0916	Mazielka. Sequence: 246531	11081	X06	15-9	0802	Mazielka. Sequence: 125643
13465	X06	3-9	0828	Mazielka. Sequence: 362154	15687	X06	15-9	0827	Mazielka. Sequence: 154263
18346	X06	3-9	0944	Mazielka. Sequence: 214356	18206	X06	15-9	0918	Mazielka. Sequence: 246531
16115	X06	3-9	1012	Mazielka. Sequence: 215346	11462	X06	16-9	0752	Mazielka. Sequence: 165423
17470	X06	3-9	1014	Mazielka. Sequence: 216354	14631	X06	17-9	0833	Mazielka. Sequence: 362154
17470	X06	3-9	1134	Mazielka. Sequence: 216354	13465	X06	17-9	0844	Mazielka. Sequence: 362154
17468	X06	4-9	0640	Mazielka. Sequence: 436512	14650	X06	17-9	1435	Mazielka. Sequence: 215346
19511	X06	4-9	0711	Mazielka. Sequence: 314265	14970	X06	17-9	1448	Mazielka. Sequence: 216354
14447	X06	4-9	0718	Mazielka. Sequence: 162543	14446	X06	18-9	0728	Mazielka. Sequence: 162543
17470	X06	4-9	1104	Mazielka. Sequence: 216354	18575	X06	18-9	1228	Mazielka. Sequence: 352416
16115	X06	4-9	1114	Mazielka. Sequence: 215346	16320	X06	19-9	0626	Mazielka. Sequence: 241563
17468	X06	4-9	9640	Mazielka. Sequence: 436512	14720	X06	19-9	0635	Mazielka. Sequence: 241563
17470	X06	5-9	0833	Mazielka. Sequence: 216354	14570	X06	19-9	0832	Mazielka. Sequence: 324615
20837	X06	5-9	1000	Mazielka. Sequence: 645321	18197	X06	19-9	0922	Mazielka. Sequence: 645321
12215	X06	5-9	1009	Mazielka. Sequence: 361245	12215	X06	19-9	1054	Mazielka. Sequence: 361245
14824	X06	5-9	1018	Mazielka. Sequence: 625413	13510	X06	23-9	1020	Mazielka. Sequence: 612534
14501	X06	5-9	1019	Mazielka. Sequence: 361245	14944	X06	24-9	1056	Mazielka. Sequence: 621543.
10372	X06	8-9	0833	Mazielka. Sequence: 431625	9106	X06	25-9	1537	Mazielka. Sequence: 564213
12224	X06	8-9	0931	Mazielka. Sequence: 463125	13510	X06	26-9	0615	Mazielka. Sequence: 216435
12177	X06	8-9	1241	Mazielka. Sequence: 364152	19511	X06	26-9	0818	Mazielka. Sequence: 314265
13420	X06	9-9	0759	Mazielka. Sequence: 534216	15828	X06	26-9	1000	Mazielka. Sequence: 256134
14675	X06	9-9	1019	Mazielka. Sequence: 612534	11075	X06	26-9	1915	Mazielka. Sequence: 145632
13510	X06	9-9	1029	Mazielka. Sequence: 612534	14414	X06	27-9	1812	Mazielka. Sequence: 145632
12100	X06	9-9	1038	Mazielka. Sequence: 612534	12105	X06	28-9	1740	Mazielka. Sequence: 145632
18591	X06	10-9	0721	Mazielka. Sequence: 435621	9163	X06	28-9	1756	Mazielka. Sequence: 145632
10814	X06	10-9	0733	Mazielka. Sequence: 412356	10359	X06b	20-9	0514	Mazielka. Sequence: 1-6
18245	X06	10-9	0839	Mazielka. Sequence: 134265	10359	X06b	20-9	0516	Mazielka. Sequence: 1-6

DP01

10250 kHz, 11-09, 0947 UTC, MFSK/2x 62.5Bd QPSK

XP family

XPA2, 21857/19557/18057 kHz, 09-09, 0700/0720/0740 UTC
00628 00121 66056 98380 90177 38526 53087 80825 44305 05298
26722 65806 17440 92267 95146 70155 23483 48233 54370 23666
09037 95481 11509 21632 19602 02362 07106 98116 57071 49556
15710 11553 82933 78074 82741 82552 94145 98006 36464 64131
18383 94323 80285 97054 97854 97759 43992 48512 76116 42303
15477 38082 71711 49300 11960 81802 26900 60837 69461 26960
50021 56948 09039 53734 91469 67442 39709 80433 64484 48256
98505 10934 91530 60716 82532 80772 64347 08505 57475 10585
76619 22625 59631 96819 41969 22606 43593 46029 23186 01547
05182 76309 22799 86700 82842 53256 09137 48400 92446 62350
51131 22350 45996 25366 14548 12014 83530 14062 89769 36046
07583 71576 10867 91540 88661 73662 70768 68939 86077 31508
74926 05572 45184 22063

XPA, 11576/10476/9276 kHz, 11-09, 1900/1920/1940 UTC
542 542 542 000
02866 00001 00000 10140

XPA2, 10250 kHz, 11-09, 0940 UTC
05597 00036 20228 00244 14642 72417 07388 46403 40044 18068
23876 53717 06266 16233 24118 03180 81614 58422 08311 66260
34515 61776 11708 70000 42003 31071 31385 23346 41341 80112
55555 15562 24316 36734 34436 35464 28744 56077 34446 01200
00000 00000
83303 00222 64446 22222 22222 32232 22773 34331 12255 78433
32777 72885 56643 66107 78817 75443 37341 12300 13570 05135
34112 55446 77187 77764 73328 73362 47115 16618 46261 10470
11864 01813 23711 05836 11760 10607 67450 38464 87565 64110

XPA2, 21857/19557/18057 kHz, 12-09, 0700/0720/0740 UTC
09744 00001 00000 10140

XPA2, 16167/14663/13923 kHz, 12-09, 1900/1920/1940 UTC
07623 00097 02365 15850 40308 31835 47071 79288 82191 86480
34990 10959 43023 48102 02820 18816 96624 58362 86670 57558
22020 03431 32538 65315 38961 36853 68125 18866 71793 15939
36734 27761 45549 05011 15632 38665 57793 00871 47108 71863
77010 80613 80032 94198 23540 21299 09565 13739 28035 23227
00897 11330 14327 69176 65419 37209 55022 68242 45844 20988
22550 63033 72963 92791 96185 82245 96120 66726 77234 12424
17806 59380 24363 87184 46517 03881 53114 63392 68758 63176
64948 53827 08263 97894 41120 11260 11973 98953 16534 67743
55818 56964 40691 08571 41816 44554 20733 98238 71230 65644

XPA, 10359/11559/13559 kHz, 13-09, 0600/0620/0640 UTC
355 355 355 000
06635 00001 00000 10140

XPA2, 21857/19557 kHz, 16-09, 0700/0720 UTC
09744 00001 00000 10140

XPA, 10359/11559/13559 kHz, 17-09, 0600/0620/0640 UTC
355 355 355 1
06396 00181 11047 97651 71524 54934 98584 33206 27484 61115
21550 05311 34926 69180 28554 12165 90984 79021 16926 31606
06122 36815 45064 31160 32698 54322 86848 90363 29119 93315
90067 64753 01072 62168 42804 65237 45135 02280 49843 28495
57936 83874 11636 00923 01851 87540 00671 05113 66530 88197
66628 38675 54788 32681 67952 87053 71372 17596 04259 60458
17762 93758 56070 69155
46678 30906 12553 50756 12408 98681 47367 02978 26737 53319
77101 92595 83756 36016 29687 06262 52967 58410 43354 25484
42650 98800 99023 49074 62443 85443 57523 81709 57570 58751
53855 83282 47281 54005 02535 23808 86819 49663 56511 94566
92445 98021 78744 13507 82054 25753 67652 61756 74440 51197
27613 28438 80707 72645 13951 95202 27729 37123 76138 57025
08491 11396 75692 42727
20749 34418 25310 88517 18548 90805 10819 52408 95944 79350
36041 56021 94074 91099 17269 33792 88744 05247 00764 92573
02216 45724 01845 25252 26561 38823 13462 74640 57278 84084
03728 18840 14503 13271 67597 31625 43624 09101 86754 55770
15332 01329 52009 32675 17953 53850 92846 62475 64915 26551
36334 66068 84864 68663 63814 27305

XPA, 10359 kHz, 20-09, 0600 UTC
355 355 355 1
06396 00181 11047 27305

XPA2, 16167/14663/13923 kHz, 20-09, 1900/1920/1940 UTC
00733 00109 97784 65364

XPA2, 16167/14663/13923 kHz, 26-09, 1900/1920/1940 UTC
05788 00001 00000 10140

XPA, 10359/11559 kHz, 27-09, 0600/0620 UTC
355 355 355 000
07813 00001 00000 10140

North Korean diplomatic stations

14444	24-09	1341	N. Korean diplo. QSX 14530 kHz	DPRK-ARQ 1200bd/1200 LSB
14530	24-09	1341	N. Korean diplo. QSX 14444 kHz	DPRK-ARQ 1200bd/1200 LSB
14442.5	29-09	1310	North Korean Diplo	DPRK-ARQ 600/600 LSB

Egyptian diplomatic stations

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

frequency	Date	UTC	remarks	mode
18144	19-8	0740	MFA Cairo clg KKVD embassy Conakry	Sitor-A 100/170
18471	2-9	0959	MFA Cairo	Sitor-A 100/170
19346.7	12-9	1154	MFA Cairo	Sitor-A 100/170
19346.7	12-9	1156	MFA Cairo clg OOVP embassy Islamabad	Sitor-A 100/170
19346.7	12-9	1204	MFA Cairo clg 1004170 948672 917502 655323	Codan chirp
18471	14-9	1009	MFA Cairo clg TVXX embassy Sanaa	Sitor-A 100/170
20125.7	15-9	1656	MFA Cairo	Sitor-A 100/170
20326.7	25-9	1107	MFA Cairo clg KKVD: embassy Conakry "KKVD"	SITOR-A 100/170
6770	26-9	1835	99902: MFA Cairo clg 13	Codan chirp 80/2400

Indian diplomatic stations

18724.7 kHz, 11-09, 1001 UTC, Baudot 50/425 & Clover 2000
MFA Delhi, India msg to embassy Yangon Myanmar
ZCZCZCZCZCZCZCZCZCZCZC
RYRYRYRYRYRYRYRYRYRYRY
======================
8WD2 8WD2 8WD2 DE 8WA3 8WA3 8WA3
8WD2 8WD2 8WD2 DE 8WA3 8WA3 8WA3
GREETINGS OF THE DAY
QRK QRV CRK UC~LZM~~JX 2'7+21: 2LW 2 2 2 2 2 2 2 2 2
HR HR HR QRU QRU QCUFQ
I NINTWYA~~ QRK INT QRK
NNNNNNNNNNNNNNVCNNNNNNNNNPDAUX
DE// CHANGEMODE MODE// OVOVOV
then changes to Clover 2000 mode

UTILITY ROUND-UP

Armenian Air Defense

3790 kHz, 11-09, 2147 UTC   Armenian Air Defense. Bearing/range reports
3790 kHz, 12-09, 1843 UTC   Armenian Air Defense. Bearing/range reports
6450 kHz, 30-09, 1515 UTC   Armenian Air Defense. Bearing/range reports

Unid DQPSK/MFSK-16 station

A new system, possibly operated the GRU was reported by Linkz and Antonio and later also by others. The many transmissions probably indicate that they are testing the system.

Schedules: sets of 3 transmissions at xxh00 xxh10 xxh20 or xxh30 xxh40 xxh50

Modes: 2 minutes of idling 1866.65 Bd DQPSK (measured with SA), showing a gap at ~1380Hz followed by 3min 43sec or 4min 43sec or 15min MFSK-16 traffic 16.5Bd / 175Hz or 32.5 Bd / 175 Hz, offset ~1850Hz

DQPSK
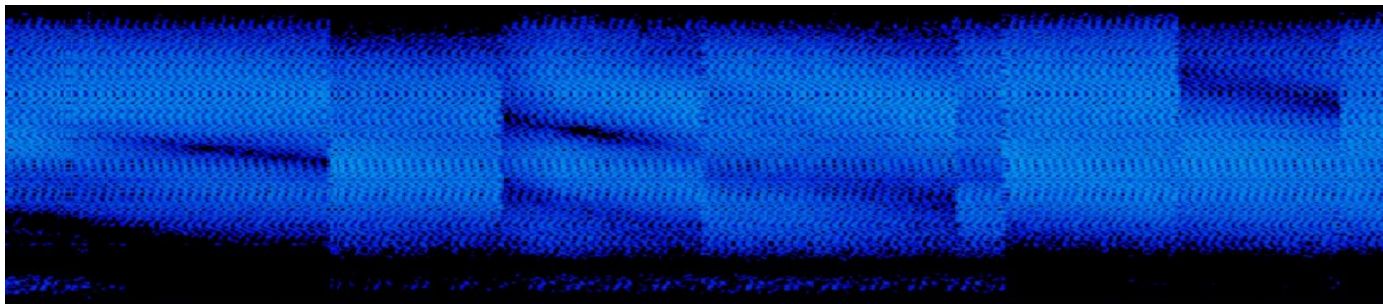
MFSK
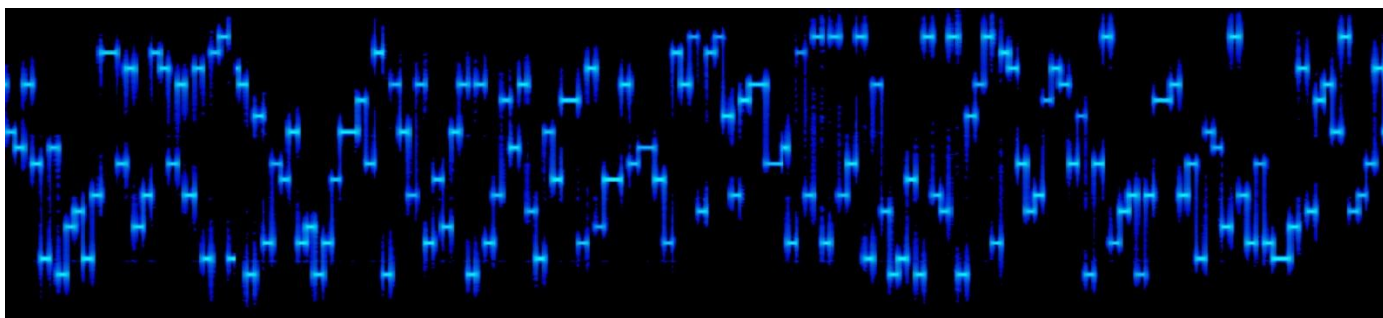
Logged transmissions:

16 Sept.
  9136 kHz USB, 2040 UTC (15min3s)
10119 kHz USB, 2020 UTC (15min3s)
10168 kHz USB, 2000 UTC (15min3s)
10274 kHz USB, 2140 UTC (15min3s)
11449 kHz USB, 1940 UTC (15min3s)
13424 kHz USB, 1920 UTC (15min3s)
14382 kHz USB, 1900 UTC (15min3s)
15716 kHz USB, 1720 UTC (15min3s)
18052 kHz USB, 1700 UTC (15min3s)

17 Sept.
17457 kHz USB, 1146 UTC
17457 kHz USB, 1340 UTC

20 Sept.
15647 kHz USB, 0950 UTC (3min43s)
17418 kHz USB, 0940 UTC (3min43s)
19504 kHz USB, 0930 UTC (3min43s)
21854 kHz USB, 0920 UTC (3min43s)
22xxx?kHz USB, 0910 UTC (3min43s)
23991 kHz USB, 0900 UTC (3min43s)

20 Sept.
14357 kHz USB, 1150 UTC (4min43s)
17457 kHz USB, 1140 UTC (4min43s)
18938 kHz USB, 1130 UTC (4min43s)
22912 kHz USB, 1120 UTC (4min43s)

13474 kHz USB, 1350 UTC (3min43s)
15657 kHz USB, 1340 UTC (3min43s)
18212 kHz USB, 1330 UTC (3min43s)
20084 kHz USB, 1320 UTC (3min43s)
23052 kHz USB, 1310 UTC (3min43s)
23937 kHz USB, 1300 UTC (3min43s)

12124 kHz USB, 1550 UTC (4min43s) fast variant
12194 kHz USB, 1540 UTC (4min43s) fast variant
14391 kHz USB, 1530 UTC (4min43s) fast variant
16234 kHz USB, 1520 UTC (4min43s) fast variant
18362 kHz USB, 1510 UTC (4min43s) fast variant

15716 kHz USB, 1740 UTC (15min3s) fast variant
18052 kHz USB, 1720 UTC (15min3s) fast variant
19654 kHz USB, 1700 UTC (15min3s) fast variant

RUSSIAN MILITARY TRANSCRIPTS

The Russian military logs were supplied by Eddy, Wolfgang, Antonio, Ary, Tom, Topol, Jim, Nige, JPL

RMv/RNv/RNAv/RAv
Russian military stations
Frequency: various
Mode: USB / voice

RAv: Gwrapse copied several Russian Air Force stations on 26-09. Recordings are on the N&O website.

11360 kHz: Full network check between the ground stations Korsar, Proselok, Davlenie, Klarnetist, Polis, Balotnoj/Balotnyj (uncertain on exact spelling)

Several Ilyushin planes of Russian naval airforce in contact with ground stations Korsar, Davlenie and Priselok on 11360 USB and one with Priboj on 11354 USB.

Flight ID 70864 w/ ground station Priboj
Ground stations Korsar and Priselok check signal
Flight ID 70726 calls ground station Davlenie without reply
Flight ID 78803 calls for ground station Korsar
Flight ID 78803 calls for ground station Priselok
Flight ID 78809 calls for ground station Korsar

M32
Russian/CIS Military CW Stations

14576 kHz, 02-09, 0755 UTC	Russian Mil i.p. ... 5WVN QSA3 QSA? K. 5WVN R K. 6X5C 6X5C 6X5C 6X5C 5WVN 5WVN K. 5WVN QSA3 QSA? K.
11468 kHz, 03-09, 2103 UTC	Russian Mil. i.p. 64298 24760 26923 12287 49279 68030 15473 41337 27641 70444 13309 53099 69017 34286 17140 99271 19262 31867 07362 53788 13983 15566 57691 33771 26235 88727 13884 38950 04639 35889 60983 51669 37374 82164 45064 78122 03114 K
7859 kHz, 09-09, 1201 UTC	WF6M DE BPDS ZZV ZFJ ZZS ZZY ZZN ZZU QYT 6 K. BPDS QRJ ? QYT 6 K
5096 kHz, 09-09, 1214 UTC	T29S BT OQO XX NAD\UJ OQOXX NAD\UJ OQO XX NAD\UJ \UADP T29S = ERADPD Q\OT\UT ZL\U\HX QKRA\UTYX\UN. V. .. R... (Cont'd) \ demotes a barred letter
8072 kHz, 09-09, 2107 UTC	L7HW QTC 33 50 10 0110 33 = QF 83..." 09-Set
13403 kHz, 04-09, 1355 UTC	i.p. 51825 4 175T I518= 85= MMMM ÖÄ TE D Ü PDPVC
3539 kHz, 12-09, 1841 UTC	NL9I NL9I NL9I DE KAHQ KAHQ K
	KAHQ R K
	4B2E 4B2E 4B2E DE KAHQ KAHQ K
	KAHQ R K
	PDXO PDXO PDXO DE KAHQ KAHQ K
	KAHQ R K
	4G4D 4G4D 4G4D DE KAHQ KAHQ K
	KAHQ R K
	XXE7 XXE7 XXE7 DE KAHQ KAHQ K
	KAHQ R K
	5EMH 5EMH 5EMH DE KAHQ KAHQ K
	KAHQ R K

9253 kHz, 15-09, 0906 UTC   MC5S DE WB4N QSA ? FOR QRJ ? K. KMDT DE WB4N QSA ? FOR QRJ ? K
        WB4N DE KMDT ZSA 2 QSA ? K
        QSA 3 FOR QRJ ? K
        FOR QRJ 2 K
        R K
        2AEJ DE WB4N QSA ? K
        WB4N DE 2AEJ QSA 2 QSA ? K
        QSA 3 K
        OK K
        R K
        ZPG9 DE WBRN QSA ? FOR QRJ ? K

7977kHz, 15-09, 1426 UTC   XXX XXX WEGI WEGI 72630 BESOWSKIJ 8079 5948 K

5419 kHz, 15-09, 2133 UTC   PQBS DE WEW4 K
        R K
        2BWP DE WEW4 K. BW4M DE WEW4 K. BW5M DE WEW4 K. BW5M DE WEW4 K. FSN2 DE WEW4 K
        R K

14376 kHz, 10-09, 1319 UTC   GTCK: 559 26 11 1715 559 = 621= TT46684163 ...
14376 kHz, 10-09, 1246 UTC   OK ZIV ZQT ZKA ZRI ZAE ZON QRR3 K

5522 kHz, 16-09, 1439 UTC   OXXP OXXP OXXP DE O4YJ O4YJ QTC K
        951 33 16 2030 951 =
        677
        11111 99080 56474 67890 97867 45464 09876 67857 (Cont'd)

3687 kHz, 18-09, 2110 UTC   55002 80001 22200 00107 19011 =
        AR RFE76 K
        RFE76 420.. 7 K
        RFE76 OK QRU K

4143 kHz, 19-09, 2035 UTC   DE LRYU K
        QTC K
        LRYU 178 34 20 0030 178 =
        ZQZ777 =
        58736 33108 73400 77982 10871 72521 13865 81876 90538 84487
        02744 73631 14994 25247 02217 91030 42744 80331 04645 67780
        14567 38255 32033 36157 33410 43042 51352 68964 15940 33740
        20030 541 K
        R K

16090 kHz, 22-09, 1011 UTC   ROP ROP ROP QSY 14845 QSY 14845
14845 kHz, 22-09, 1013 UTC   BK BK RDS RDS RDS QSA 4 NIL K SK

8017 kHz, 22-09, 1804 UTC   NBIK DE LGI7 K. NBIK DE KRSA QSA 3
8072 kHz, 22-09, 1806 UTC   KRSA DE NBIK K. KRSA DE NBIK QSA ? K

6779 kHz, 22-09, 1200 UTC   T7QX DE S7VN K. T7QX DE GSSM K
8206 kHz, 23-09, 0047 UTC   VV KDFJ KDFJ DE TOMN K

10683 kHz, 25-09, 0904 UTC   XXX XXX WEGI WEGI 24360 KOSTOEDA 1484 8782 //12688 kHz
12688 kHz, 25-09, 0904 UTC   XXX XXX WEGI WEGI 24360 KOSTOEDA 1484 8782 //10683 kHz
12315 kHz, 25-09, 0906 UTC   XXX XXX 1QRF 1QRF 48199 KOSTOEDA 1484 8782
12832 kHz, 25-09, 0908 UTC   XXX XXX WEGI WEGI 88747 24360 KOSTOEDA 1484 8782

5514 kHz, 27-09, 2003 UTC   WFBD DE HXX9 QSA?

5693 kHz, 26-09, 2003 UTC   HX?? DE WFBD K
                              QSA2 QSA? RK
                              9OB8 DE WFBD K
                              QSA3 QSA? K RK
                              D2KB DE WFBD K
                              QSA1 QSA? K
                              QSA1 QSA? K RK
                              VPLT DE WFBD K
                              QSA3 QSA? K RK

14376 kHz
29-09, 1240 UTC   V9WR 139 243 RKTL V 9 R E 139 24 MD IT635 13M...
28-09, 1113 UTC   TC3P DE L3ET K L3ET QTC K
28-09, 1124 UTC   V9WR R 895 K
28-09, 1213 UTC   V9WR K. V9WR QRV K

M32a
Russian Navy
Voyenno-Morskoy Flot Rossii

7566 kHz, 31-08, 1952 UTC   RFH71 DE RCV
9203 kHz, 11-08, 1157 UTC   Fast messages all encrypted, ends with DE RIP.
8014 kHz, 10-09, 2021 UTC   VVV RCV RCV RCV DE RBIZ RBIZ RBIZ QSA? K
5775 kHz, 12-09, 1818 UTC   RCV nawips
4258 kHz, 12-09, 1857 UTC   4258 4258 K. RGZ57 DE RJS ZBR K
5343 kHz, 14-09, 1810 UTC   RHO62 DE RIT QSL 776 K
16958 kHz, 15-09, 0952 UTC   RIW tfc to RMRV after coord on 12464/11000 kHz
17024 kHz, 15-09, 0948 UTC   RIW tfc to RMRV after coord on 12464/11000 kHz
19104 kHz, 15-09, 0948 UTC RIW tfc to RMRV
19188 kHz, 15-09, 0952 UTC RIW tfc to RMRV after coord on 12464/11000 kHz
3797 kHz, 19-09, 1813 UTC   RIC87 RIC87 RIC87 DE RCV RCV QTC 155 46 18 1400 155 = PRIP N\UWORJSSIJSK ... (Cont'd)
5775 kHz, 19-09, 1817 UTC   RIC87 DE RCV QTC
4618 kHz, 11-09, 2111 UTC   VVV REO REO DE RJS99 RJS99 RSHS RBHV ZIA? QT RK
11143 kHz, 17-09, 1232 UTC RCV DE RBEM QRR K RC5O K QR3 K RBEGR K

6319 kHz, 30-09, 2108 UTC   Russian Navy   Radioprognoz i.p.
                                00001 00612 40012
                                00002 00612 40013
                                00005 00612 70010
                                00006 00612 70011
                                00102 00612 50012
                                AR
13044 kHz, 28-09, 1249 UTC RCV DE RBEG QRR3 WRK K
15586 kHz, 29-09, 1152 UTC RJC20 DE RCV"

11000 kHz
10-09, 1225 UTC   RDNK RDNK DE RIW RIW QSA? K
17-09, 1817 UTC   RMRV DE RIW QYT4 QSX 12414
19-09, 1320 UTC   i.p. 6972 714T4 87393 19T52 = RPT AL RIW K
19-09, 1335 UTC   RGR7Ø DE RIW K

11155 kHz
15-09, 1332 UTC   RMDV DE RIT QYT4 QMG 1
15-09, 1255 UTC   RHO62: Admiral Vladimirskiy RIT DE RHO62 QSA? QRV K
14-09, 1205 UTC   RHO62 de RIT RIT

19201 kHz

11-09, 0737 UTC	RBE86 DE RCV RCV QTC K
11-09, 0737 UTC	RGS54 QTC K
15-09, 1132 UTC	RKZR RZKZ DE RCV RCV QTC 696 65 15 1425 696 = PROGNOZ POGODY S 1800 16 DO 1800 1800
15-09, 1134 UTC	RMGB RMGB DE RCV RCV QTC 569 23 15 1445 569 =
15-09, 1134 UTC	RCV: Weather reports for Malta Tunis Beirut Tartus

12464 kHz

17-09, 1846 UTC	RMRV QYT4 QSX 15463
18-09, 1150 UTC	RCV RCV RCV DE RHL80 RHL80 QSA ? K
18-09, 1251 UTC	RMRV: Smolnyi Class Training ship. RIW DE RMRV k
23-09, 0803 uTC	RHO62: Navy Ship Admiral Vladimirskiy. RIT DE RHO62 851 20 23 1003 851 = SML FOR RJD38 RJH48 RJH74 = 23061 99742 11353 41529 81205 10014 40008 54007 70215 87231 22221 00038 20201 3//// 88000 23015 = + RHO62 K OK QYT4 QMO K OK QRU K
23-09, 0625 UTC	RCV DE RJC20 843 18 23 1020 843 = FOR RJH45 RJE73 = 23061 99326 10258 41/97 01608 10200 40623 54000 70100 80000 22232 00200 299// 88000 80000 23015 = + RJC20 K
23-09, 0630 UTC	RGR35: VA Kulakov (626). RCV DE RGR35 K QYT4 QSA? K QYT4 QSX 6415/5736 K QYT4 QSA5 K QYT4 QSA? K
23-09, 0755 UTC	VVV RIW DE RHC86 QSA? K AS2 K QYT4 ? K
23-09, 1806 UTC	RCV DE RJC20 344 19 23 2200 344 = FOR RJH45 RJE73 = 23181 99363 10269 41/// 00504 10200 40050 54000 70000 80000 22232 00210 2//// 3//// 88000 80000 23016 = + RJC20 K
25-09, 0923 UTC	RJT22 85920 SORINKA 4695 8042 K
25-09, 0927 UTC	RJC20 85920 SORINKA 4695 8042 K
25-09, 0743 UTC	RFH71 82520 80489 WARDEIN 2200 8512 K
25-09, 0745 UTC	RJC20 82520 80489 WARDEIN 2200 8512 K
25-09, 1814 UTC	RCV DE RJC20 331 19 25 2205 331 = FOR RJH45 RJE73 = 25181 99345 10317 41/97 02512 10200 40146 53002 ....80000 22252 00200 20404 3//// 88000 80000 25016 = + RJC20 K
30-09, 1327 UTC	RBEG QSL 435 K

14556 kHz

04-09, 1222 UTC	i.p. 73458 64175 99291 57577 00640 68205 50431 64739 90531 66786 04767 78177 78658 95663 35420 06118 57671 16147 35539 68986 99221 04377 42824 29711 67006 11218 54929 67998 80319 66399 64685 59232 78769 04038 = RPT AL AR RIW K
04-09, 1228 UTC	RIW RPT 67006 11218 54929 67998 80319 66399 64685 59232 78769 04038 = RPT AL AR RIW K
04-09, 1238 UTC	RMDZ DE RIW K. RIW QRU QRU?
20-09, 0900 UTC	RCRE DE RIW K. RIW QRR3 SK K. RIW QSU1 QWH 13086 QSX 12260 K. RCRE DE RIW K RIW QRR3 SK K
20-09, 0901 UTC	RIW QSU1 QWH 13086 QSX 12260 K. PROGRESS working with GANTEL' checking connection and ends at 0908 kHz with: RIW QYT4 QWH 11703/9500 QSX 12414/8338 FM RAA K
24-09, 0945 UTC	i.p. 99228 46877 05223 49788 59675 07979 57087 19147 98400 85085 09431 39905 21464 65027 18428 56172 56701 69967 50182 34902 46826 73037 54575 36.40 24052 = RPT AL AR RIW K. RPT AL AR RIW K
29-09, 1340 UTC	RGR70 DE RIW K

8345 kHz

04-09, 0015 UTC	RJP30: Navy Ship Senezh. RIT DE RJP30 619 15 3 0403 619 = FOR RJH74 RJH45 = 03001 99695 10427 41/91 /3102 10070 40170 57010 70222 8//// 22221 00090 03012 = + RJP30 K
	RIT DE RJP30 601 16 3 2203 601 = FOR RJH74 RJH45 = 03181 99696 10428 41495 72803 10100 40120 54000 76262 87222 22261 00092 299// 03013 = + RJP30 K
12-09, 0821 UTC	RCV DE RFH70 QYT4 QSA? K QYT4 QLS K QYT4 QWH 8322 K QYT4 QSX 7984 / 9988 K QYT4 QCM K OK QYT4 QWH 10492 K QYT4 QSA? K OK QYT4 QWH 12370 K QYT4 QSA? K QYT4 QMO K
12-09, 1744 UTC	RCV DE RFH70 OK QYT4 QSX 6452/7984 K
14-09, 1809 UTC	RHO62:NAVY SHIP ADMIRAL VLADIMIRSKIY. RIT DE RHO62 776 16 14 2205 776 = SML FOR RJD38 RJH74 = 14181 99771 11159 41598 60911 10017 40050 57013 82231 22223 00017 2//// 14012 = + RHO62 K
15-09, 0604 UTC	RCV DE RHV42 728 16 15 0950 728 = FOR RJE73 RJH45 = 15061 99369 10267 41598 10205 10253 40163 54000 70100 81001 22242 00251 20101 15013 = + RHV42 K
18-09, 0006 UTC	RHO62: Navy Ship Admiral Vladimirskiy. RIT DE RHO62 119 20 18 0403 119 = FOR RJD38 RJH48 RJH74 = 18001 99730 11317 42598 82015 10039 40034 52012 882// 22243 00048 20303 319// 40605 88000 18015 = + RHO62 K
18-09, 0020 UTC	RIT DE RMWT 527 19 18 0412 527 = SML FOR RJH45 RJD38 REG98 = 17001 99550 10200 42/98 ..... 8//// 22200 00129 2//// 3//// 18014 = + RMWT K

18-09, 0314 UTC	RHO62: Navy Ship Admiral Vladimirskiy. RIT DE RHO62 497 20 18 0707 497 = SML FOR RJD38 RJH48 RJH74 = 18031 99735 11317 42598 62116 10038 40041 52007 8521/ 22243 00051 20303 318// 40505 88000 12015 (?) = + RHO62 K
23-09, 1815 UTC	RMGB: Tanker Iman. RCV DE RMGB 396 4 23 2211 396 = SML = 90472 32200 23002 = + RMGB K
23-09, 1910 UTC	RCV DE RFH71 928 2 23 2300 928 = 90472 32240 23002 = + RFH71 K COR 928 0223 RFH71 COR 928 3 23 2300 928 K OK QRU K

12426 kHz

06-09, 1205 UTC	RCV DE RMGB QSA? QTC K
06-09, 1258 UTC	RCV DE RMGB QSU 1 QSX 8770 K
06-09, 1304 UTC	VVV RIT RIT RIT DE RJI51 RJI51
06-09, 1315 UTC	RIW DE RMRV
06-09, 1318 UTC	RCV DE RJT2 QSA? K
06-09, 1420 UTC	RCV DE RHY47 QSA ? K
06-09, 1425 UTC	RCV DE RMGB QSA2 QRV K
06-09, 1426 UTC	RMGB NR 71 RPT 5 25 28 29 K
06-09, 1428 UTC	RMGB QSL 971 K
07-09, 1403 UTC	RJT22: Missile Cruiser Moskva. RCV DE RJT22 QYT 4 QSX 5736 K
07-09, 1547 UTC	RFH70: Destroyer Smetlivy. RCV DE RFH70 K
07-09, 1555 UTC	RFH70: Destroyer Smetlivy. RCV DE RFH70 QYT 4 QSA 4
08-09, 1206 UTC	RCV DE RMGB.. = ..99396 10256 22252 (39.6N 25.6E Heading South West @ 6-10 Knots https://goo.gl/maps/Pl2Hu)
08-09, 1232 UTC	RIW DE RHI99 QYT 4 QSA ? K
08-09, 1305 UTC	RCV DE RFH71 QSA ? K
12-09, 0630 UTC	RFH70: DG Smetlivyj (810). RCV DE RFH70 OK QYT4 QWH 10492 K
12-09,	RIT DE RLD69 OK QYT4 QSA? K QYT4 QLS K
14-09, 1510 UTC	RMRV: Navy ship Smolny (887). RIW DE RMRV QYT4 QSX 17024/19056 QWH 12414 FM RAA K

M32b
Russian Naval Aviation
Aviatsiya Voenno-morskogo Flota Rossii

8816 kHz

04-09, 0606 UTC	RJF94 RJC38 DE 30517 QTH 6117 3700 QTR 0554 QBD 3300 QBG 5500 K - QTH 5706 3743 QTR 0652 QBD 2500 QRE XUMO 0630 K - QQM XUMO 0730 SK
04-09	RJD23 RJD23 RJD23 DE RCB RCB QSA2 K - RJF94 RPT K (nothing further, RCB on wrong freq ?)
04-09, 0916 UTC	RJC38 RJF94 DE 30517 QTO 0900 QRD XRKE XUMO QRE 1140 QBD 5000 K - QQL XRRM 1140 QRE XRKE 1135 K - QRE XRKE 1155 K
12-09, 0440 UTC	RJF94 RJC38 DE 09921 QTO 0430 QRD XRKE XLMV QRE 0940 QBD 18000 K - QQL ULPE 0531 QBG 7600 K - QQL ULWB 0634 QBD 13300 K - QAY XUMU 0731 QBD 7300 K - QQL XUOI 0837 QRE XRKE 0945 K - QQM XRKE 0946 K
12-09, 1038 UTC	QQM XUYK 1036 SK
12-09, 1307 UTC	RJF94 RJC38 DE 54485 QQL XLAM 1305 QBG 7300 K - QTH 6617 3651 QTR 1434 QBG 7300 QRE XLMV 1530 K - QQM XLMV 1528 SK
12-09, 1322 UTC	RJF94 RJC38 DE 09921 QTO 1312 QRD XRFI XRKE QRE 1420 QBD 18000 K - QAY ULAL 1355 QBD 13200 K – QQM XRFI 1417 SK
07-09, 1722 UTC	RJF94 wkg 53283
12-09, 2102 UTC	RMW2 DE RAL2 K QSA 2 ZNN ZNN SK SK RHQ2 DE RAL2 K RAL2 DE RBL66 QSA 4 K AS RHQ2 DE RAL2 QSA NO ZNN SK RBL66 DE RAL2 QSA 4 ZNN ZNN SK SK
15-09, 0615 UTC`	RJF94 RJC38 DE 30521 QTO 0605 QRD XLWF XLMV QRE 0820 QBD 4600 K - QQL ULPE 0707 QBD 3000 QBG 5800 QRE XLWF 0830 K - QTH 6117 3700 QTR 0754 QBD 2300 QRE XLWF 0835 K - QQM XLWF 0830 SK
17-09, 0630 UTC	RJC38 RJF94 DE 30521 QTO 0615 QRD XRKE XKFA QRE 0740 QBD 3600 K - QTH 4509 3632 QTR 0658 QBD 2800 QRE XRKE 0745 K - QQM XRKE 0740 SK

17-09, 0635 UTC	RJC38 RJF94 DE 09921 QTO 0624 QRD XLMV XLWF QRE 0850 QBG 13500 K (??) - QAY XLPB 0712 QBG 6700 K - QQL ULPE 0751 QRE XLMV K- QQM XLMV 0854 SK
17-09, 0858 UTC	RJC38 RJF94 DE 30521 QTO 0845 QRD XLWF XRKE QRE 1305 QBD 5100 K - QQL XRRM 0942 QBD 4000 QBG 6100 K - QTH 5143 4011 QTR 1045 QBD 3400 QRE XLWF 1325 K - QTH 5436 3720 QTR 1144 QBD 2800 K – QTH 5702 3800 QTR 1230 QBD 2100 QRE XLWF 1315 K - QQM XLWF 1310 SK
17-09, 1418 UTC	RJC38 RJF94 DE 30521 QTO 1408 QRD XLMV XLWF QRE 1725 QBD 5000 K - QAY XLPB 1514 QBD 4100 QBG 5500 K - QTH 6622 3334 QTR 1617 QBD 3300 QRE XLMV 1710 K - QQM XLMV 1708 SK
23-09, 0625 UTC	RJF94 RJC38 DE 30521 QTO 0610 QRD XLMV XLWF QBD 4800 QRE 0920 K - QAY XLPB 0700 QBG 5600 QBD 3500 K - QQL ULPE 0751 QBG 6700 QBD 2700 K - QQL XLMF 0828 QBG 6700 QBD 2200 QRE XLMV 0900 K

13975 kHz, 28-09, 1306 UTC RAL2 DE RHW2 QSA 2 ? K

M32c
Russian Air Force
Voyenno-vozdushnye sily Rossii

Most of the traffic reported lately is traffic on the Bear net frequencies. Bear net is the general term used for the Russian Long Range Aviation Command network – Tu-95MSM "Bear H" and Tu-160 "Blackjack" bombers.
9027 KHz CW is the air end frequency for Autumn. 8033 KHz USB is the voice net frequency for Autumn

8033 kHz, 16-09, 2028 UTC	CW Blind message sent and receipted on voice net.
9027 kHz, 16-09, 1957 UTC	Tu-95MS Bear H net: QZ6Y DE LASZ QTC K. 4ASU DE LASZ K. PUO7 DE LASZ K. LASZ BLIND = 211 138 233 402 = 211 138 233 402 = 211 138 233 402 K
8162 kHz, 16-09, 1900 UTC	W-markers
8162 kHz, 16-09, 1903 UTC	LASZ DE QZ6Y QRV K. QZ6Y = 422 494 768 025 293 K
9027 kHz, 16-09, 1903 UTC	LASZ 422 494 768 025 293 K. C K
8162 kHz, 26-09, 1740 UTC	W Markers: Tu-95MS Bear H
8162 kHz, 26-09, 1740 UTC	L Markers: Tu-95MS Bear H net
8162 kHz, 26-09, 1740 UTC	Z Markers: Tu-95MS Bear H net
9027 kHz, 26-09, 1822 UTC	Tu-95MS Bear H net air i.p. 676 690 K
8162 kHz, 26-09, 1823 UTC	Tu-95MS Bear H net NCS. 4ASU = 170 191 138 145 676 690 K
9027 kHz, 26-09, 1922 UTC	Tu-95MS Bear H net. 4ASU DE P1FE QTC K. P1FE = 374 069 841 523 456 845 K
8162 kHz, 26-09, 1922 UTC	Tu-95MS Bear H net NCS. P1FE DE 4ASU QRV K. 4ASU = 374 069 841 523 456 845 K
4521 kHz, 25-09, 2040 UTC	REA4 i.p.

EMERGENCY ACTION MESSAGES & SKYKING MESSAGES

Logs provided by Ary,
Frequencies: 6712, 8992 kHz

04-09, 1507	Mainsail. 30 chr EAM 4WXK JEZ3E4QLY6GXB6VXWAUX4DYT (missed a part)
04-09, 1631	Mainsail. 30 chr EAM 4W24E3 RIUNL4G3KL43CKFW7FKRPQNM
04-09, 1633	Mainsail. 30 chr EAM 4WZHS7 LTWENAUJRC2S5LIJZRYA66WC
04-09, 1636	Mainsail. 30 chr EAM 4WQD3G KX2TIPG3X3LYYJGGE4ROLLOL
04-09, 1837	Mainsail. Skyking GRM 37 LG
04-09, 1853	Mainsail. Test count 12345 54321
04-09, 2131	Mainsail. Skyking IP3 31 QR
05-09, 2115	Mainsail. Skyking ONN 15 BU
05-09, 2118	Mainsail. 30 chr EAM for SERB-25 CM4ZP6 GEZLGOAEQO7FNTBGFOWG37DC
09-09, 1636	Mainsail. 30 chr EAM 4WH2ZR ZN3ARRSSO3C7VPTRUQ7GFXCF

LOGS SECTION

The logs are sorted on Code / Date / Time

Freq.	Enigma	Date	UTC	Day	Remarks	Mode	Ctrb
8300	---	9-9	1214	Tue	Male reading numbers in unid language	USB	(AB-HK)
6905	---	11-9	0502	Thu	VVV RAM69 QSA K. QSA I NIL S K	CW	(BCI)
10250	---	11-9	1523	Thu	Operator chats connected to the earlier activities on this channel.	USB	(AB)
8144	---	15-9	2001	Mon	381 (rptd)	CW	(BCI)
18052	---	16-9	1700	Tue	Unid Russian net (15min3s)	DQPSK 1866.65Bd / MFSK 16.5Bd	(linkz)
15716	---	16-9	1720	Tue	Unid Russian net (15min3s)	DQPSK 1866.65Bd / MFSK 16.5Bd	(linkz)
14382	---	16-9	1900	Tue	Unid Russian net (15min3s)	DQPSK 1866.65Bd / MFSK 16.5Bd	(linkz)
13424	---	16-9	1920	Tue	Unid Russian net (15min3s)	DQPSK 1866.65Bd / MFSK 16.5Bd	(linkz)
11449	---	16-9	1940	Tue	Unid Russian net (15min3s)	DQPSK 1866.65Bd / MFSK 16.5Bd	(linkz)
10168	---	16-9	2010	Tue	Unid Russian net (15min3s)	DQPSK 1866.65Bd / MFSK 16.5Bd	(linkz)
10119	---	16-9	2020	Tue	Unid Russian net (15min3s)	DQPSK 1866.65Bd / MFSK 16.5Bd	(linkz)
9136	---	16-9	2040	Tue	Unid Russian net (15min3s)	DQPSK 1866.65Bd / MFSK 16.5Bd	(linkz)
10274	---	16-9	2140	Tue	Unid Russian net (15min3s)	DQPSK 1866.65Bd / MFSK 16.5Bd	(linkz)
17457	---	17-9	1146	Wed	Unid Russian net	DQPSK 1866.65Bd / MFSK 16.5Bd	(Faux)
17457	---	17-9	1340	Wed	Unid Russian net	DQPSK 1866.65Bd / MFSK 16.5Bd	(AAI)
23991	---	20-9	0900	Sat	Unid Russian net (3min43s)	DQPSK 1866.65Bd / MFSK 16.5Bd	(linkz)
21854	---	20-9	0920	Sat	Unid Russian net (3min43s)	DQPSK 1866.65Bd / MFSK 16.5Bd	(linkz)
19504	---	20-9	0930	Sat	Unid Russian net (3min43s)	DQPSK 1866.65Bd / MFSK 16.5Bd	(linkz)
17418	---	20-9	0940	Sat	Unid Russian net (3min43s)	DQPSK 1866.65Bd / MFSK 16.5Bd	(linkz)
15647	---	20-9	0950	Sat	Unid Russian net (3min43s)	DQPSK 1866.65Bd / MFSK 16.5Bd	(linkz)
22912	---	20-9	1120	Sat	Unid Russian net (4min43s)	DQPSK 1866.65Bd / MFSK 16.5Bd	(linkz)
18938	---	20-9	1130	Sat	Unid Russian net (4min43s)	DQPSK 1866.65Bd / MFSK 16.5Bd	(linkz)
17457	---	20-9	1140	Sat	Unid Russian net (4min43s)	DQPSK 1866.65Bd / MFSK 16.5Bd	(linkz)
14357	---	20-9	1150	Sat	Unid Russian net (4min43s)	DQPSK 1866.65Bd / MFSK 16.5Bd	(linkz)
23937	---	20-9	1300	Sat	Unid Russian net (3min43s)	DQPSK 1866.65Bd / MFSK 16.5Bd	(linkz)
23052	---	20-9	1310	Sat	Unid Russian net (3min43s)	DQPSK 1866.65Bd / MFSK 16.5Bd	(linkz)
20084	---	20-9	1320	Sat	Unid Russian net (3min43s)	DQPSK 1866.65Bd / MFSK 16.5Bd	(linkz)
18212	---	20-9	1330	Sat	Unid Russian net (3min43s)	DQPSK 1866.65Bd / MFSK 16.5Bd	(linkz)
15657	---	20-9	1340	Sat	Unid Russian net (3min43s)	DQPSK 1866.65Bd / MFSK 16.5Bd	(linkz)
13474	---	20-9	1350	Sat	Unid Russian net (3min43s)	DQPSK 1866.65Bd / MFSK 16.5Bd	(linkz)
18362	---	20-9	1510	Sat	Unid Russian net (4min43s) fast variant	DQPSK 1866.65Bd/MFSK 32,5Bd	(linkz)
16234	---	20-9	1520	Sat	Unid Russian net (4min43s) fast variant	DQPSK 1866.65Bd/MFSK 32,5Bd	(linkz)

Freq.	Enigma	Date	UTC	Day	Remarks	Mode	Ctrb
14391	---	20-9	1530	Sat	Unid Russian net (4min43s) fast variant	DQPSK 1866.65Bd/MFSK 32,5Bd	(linkz)
12194	---	20-9	1540	Sat	Unid Russian net (4min43s) fast variant	DQPSK 1866.65Bd/MFSK 32,5Bd	(linkz)
12124	---	20-9	1550	Sat	Unid Russian net (4min43s) fast variant	DQPSK 1866.65Bd/MFSK 32,5Bd	(linkz)
19654	---	20-9	1700	Sat	Unid Russian net (15min3s) fast variant	DQPSK 1866.65Bd/MFSK 32,5Bd	(linkz)
18052	---	20-9	1720	Sat	Unid Russian net (15min3s) fast variant	DQPSK 1866.65Bd/MFSK 32,5Bd	(linkz)
15716	---	20-9	1740	Sat	Unid Russian net (15min3s) fast variant	DQPSK 1866.65Bd/MFSK 32,5Bd	(linkz)
3790	ARM	11-9	2147	Thu	Armenian Air Defense. Bearing/range reports	USB	(GWr)
3790	ARM	12-9	1843	Fri	Armenian Air Defense. Bearing/range reports	USB	(AB)
6450	ARM	30-9	1515	Tue	Armenian Air Defense. Bearing/range reports	USB	(AB)
10250	DP01	11-9	0947	Thu	Russian intel	MFSK/2x 62.5Bd QPSK	(Avare/FYM/toto)
14530	DPRK	24-9	1341	Wed	N. Korean diplo. QSX 14444 kHz	DPRK-ARQ 1200bd/1200 LSB	(Faux)
14444	DPRK	24-9	1341	Wed	N. Korean diplo. QSX 14530 kHz	DPRK-ARQ 1200bd/1200 LSB	(Faux)
14442.5	DPRK	29-9	1310	Mon	North Korean Diplo	DPRK-ARQ 600/600	(AAI)
15960	E06	4-9	0500	Thu	354 672 108 73785 87250 47557 ... 47888 29989 82169 672 108 00000	USB	(Danix)
17450	E06	4-9	0600	Thu	354 672 108 73785 87250 47557 ... 47888 29989 82169 672 108 00000	USB	(Danix)
5186	E06	4-9	2030	Thu	891 237 20 37839 35787 98273 ... 60491 75924 04594 237 20 00000	USB	(Danix)
5186	E06	4-9	2030	Thu	891 237 20 37839	USB	(HFD)
15960	E06	5-9	0500	Fri	354 672 108 73785 87250 47557 ... 47888 29989 82169 672 108 00000	USB	(Danix)
17450	E06	5-9	0600	Fri	354 672 108 73785 87250 47557 ... 47888 29989 82169 672 108 00000	USB	(Danix)
5197	E06	5-9	2130	Fri	634 931 20 14259 22676 32782 ... 73311 98089 12250 931 20 00000	USB	(Danix)
4482	E06	10-9	1920	Wed	376 376 376 00000	USB	(AB)
4482	E06	10-9	1920	Wed	376 0	USB	(HFD)
4482	E06	10-9	1920	Wed	376 376 376 00000	USB	(Danix)
3744	E06	10-9	2020	Wed	376 376 376 00000	USB	(Danix)
3744	E06	10-9	2020	Wed	376 0	USB	(HFD)
10257	E06	11-9	1019	Thu	Mostly unreadable. Text includes 44052 02232 74885 770?7 ??577 ???52 55555 74?26 01085 31071 ?0011 ??????	LSB	(Avare/FYM/toto/AB)
7885	E06	14-9	1120	Sun	376 376 376 00000	USB	(Danix)
6963	E06	14-9	1220	Sun	376 376 376 00000	USB	(Danix)
15960	E06	18-9	0500	Thu	354 672 108 73785 87250 47557 ... 47888 29989 82169 672 108 00000	USB	(Danix)
17450	E06	18-9	0600	Thu	354 672 108 73785 87250 47557 ... 47888 29989 82169 672 108 00000	USB	(Danix)
17450	E06	18-9	0600	Thu	354 (R) 672 672 108 108 73785 87250 47557 ... 47888 29989 82169 672 672 108 108 00000	USB	(DM-HOL)
5186	E06	18-9	2030	Thu	891 237 20 37839 35787 98273 ... 60491 75924 04594 237 20 00000	USB	(Danix)
15860	E06	19-9	0500	Fri	354 672 108 73785 87250 47557 ... 47888 29989 82169 672 108 00000	USB	(Danix)
15860	E06	19-9	0500	Fri	354 #67 108 73785	USB	(HFD)
17450	E06	19-9	0600	Fri	354	USB	(HFD)
17450	E06	19-9	0600	Fri	354 672 108 73785 87250 47557 ... 47888 29989 82169 672 108 00000	USB	(Danix)
5197	E06	19-9	2130	Fri	634 931 20 14259 22676 32782 ... 73311 98089 12250 931 20 00000	USB	(Danix)
12207	E06	24-9	1130	Wed	509 612 47 90728 56576 69080 ... 51362 81257 09145 509 387 60 91780 12380 94650 ... 87675 69349 97482 387 60 00000	USB	(toto/Gwr/Danix/Avare)
12108	E07	1-9	1900	Mon	172 1 948 74 37997	USB	(HFD)
10708	E07	1-9	1920	Mon	172 1	USB	(HFD)
10708	E07	1-9	1920	Mon	172 1 948 74 37997 04182 10103 33412 08858 ... 63186 39111 85633 41816 80599 000 000	AM	(MPJ)
9208	E07	1-9	1940	Mon	172 1 948 74 37997 04182 10103 33412 08858 ... 63186 39111 85633 41816 80599 000 000	AM	(MPJ)
9208	E07	1-9	1940	Mon	172 1	USB	(HFD)
13527	E07	3-9	1700	Wed	526 0	USB	(HFD)
12227	E07	3-9	1720	Wed	526 526 526 000	USB	(AB)

Freq.	Enigma	Date	UTC	Day	Remarks	Mode	Ctrb
12227	E07	3-9	1720	Wed	526 0	USB	(HFD)
12108	E07	3-9	1900	Wed	172 172 172 000	AM	(AB)
10708	E07	3-9	1920	Wed	172 172 172 000	AM	(AB/MPJ/GHn)
13527	E07	4-9	1700	Thu	526 526 526 000	USB	(MPJ)
9357	E07	4-9	2010	Thu	358 358 358 000	AM	(MPJ)
9387	E07	4-9	2010	Thu	358 0	USB	(HFD)
7526	E07	4-9	2030	Thu	358 0	USB	(HFD)
12108	E07	8-9	1900		172 172 172 1 582 114 582 114 86490 31006 28630 ... 26523 65315 38182 000 000	AM	(AB)
10708	E07	8-9	1920		172 172 172 1 582 114 582 114 86490 31006 28630 ... 26523 65315 38182 000 000	AM	(AB)
9208	E07	8-9	1940		172 172 172 1 582 114 582 114 86490 31006 28630 ... 26523 65315 38182 000 000	AM	(AB)
13527	E07	10-9	1700	Wed	526 526 526 000	AM	(AB)
12227	E07	10-9	1720	Wed	526 526 526 000	AM	(AB)
12108	E07	10-9	1900	Wed	172 172 172 000	AM	(AB)
10708	E07	10-9	1920	Wed	172 172 172 000	AM	(AB)
13527	E07	17-9	1700	Wed	526 526 526 1 845 137 845 137 54365 18144 01051 ... 59373 56290 05573 000 000	AM	(AB)
12227	E07	17-9	1720	Wed	526 526 526 1 845 137 845 137 54365 18144 01051 ... 59373 56290 05573 000 000	AM	(AB)
10627	E07	17-9	1740	Wed	526 526 526 1 845 137 845 137 54365 18144 01051 ... 59373 56290 05573 000 000	AM	(AB)
12108	E07	22-9	1900	Mon	172 172 172 1 361 62 361 62 80630 39884 93385 ... 04838 51999 70618 000 000	AM	(GHn)
10708	E07	22-9	1920	Mon	172 172 172 1 361 62 361 62 80630 39884 93385 ... 04838 51999 70618 000 000	AM	(GHn)
9208	E07	22-9	1940	Mon	172 172 172 1 361 62 361 62 80630 39884 93385 ... 04838 51999 70618 000 000	AM	(GHn)
13527	E07	24-9	1700	Wed	526 526 526 000	AM	(GHn)
12108	E07	24-9	1900	Wed	172 1 361 62 80630 39884 93385 ... 04838 51999 70618 000 000	AM	(GHn)
10708	E07	29-9	1920	Mon	172 172 172 000	AM	(MPJ)
8173	E07a	3-9	2000	Wed	147 0	USB	(HFD)
8173	E07a	3-9	2000	Wed	147 147 147 000	USB	(AB)
8173	E07a	3-9	2000	Wed	147 147 147 000	USB	(Danix)
7473	E07a	3-9	2020	Wed	147 0	USB	(HFD)
7473	E07a	3-9	2020	Wed	147 147 147 000	USB	(Danix)
7473	E07a	3-9	2020	Wed	147 147 147 000	USB	(AB)
7437	E07a	4-9	0430	Thu	411 411 411 000	USB	(Danix)
8137	E07a	4-9	0450	Thu	411 411 411 000	USB	(Danix)
10583	E07a	5-9	1510	Fri	531 531 531 000	USB	(GHn)
10583	E07a	5-9	1510	Fri	531 0	USB	(HFD)
10583	E07a	5-9	1510	Fri	531 531 531 000	USB	(Danix)
9383	E07a	5-9	1530	Fri	531 0	USB	(HFD)
9383	E07a	5-9	1530	Fri	531 531 531 000	USB	(Danix)
11153	E07a	6-9	0800	Sat	114 0	USB	(HFD)
11153	E07a	6-9	0800	Sat	114 114 114 000	USB	(Danix)
12153	E07a	6-9	0820	Sat	114 0	USB	(HFD)
12153	E07a	6-9	0820	Sat	114 114 114 000	USB	(AB)
12153	E07a	6-9	0820	Sat	114 114 114 000	USB	(Danix)
8173	E07a	10-9	2000	Wed	147 147 147 000	USB	(Danix)
7473	E07a	10-9	2020	Wed	147 147 147 000	USB	(Danix)
7437	E07a	11-9	0430	Thu	411 411 411 000	USB	(Danix)
8137	E07a	12-9	0450	Thu	411 411 411 000	USB	(Danix)
10583	E07a	12-9	1510	Fri	531 531 531 000	USB	(GHn)
10583	E07a	13-9	1510	Sat	531 531 531 000	USB	(Danix)
9383	E07a	13-9	1530	Sat	531 531 531 000	USB	(Danix)
11153	E07a	14-9	0800	Sun	114 114 114 000	USB	(Danix)
12153	E07a	14-9	0820	Sun	114 114 114 000	USB	(Danix)
7437	E07a	17-9	0430	Wed	411 411 411 1 19097 1342 79 49682 90044 97253 ... 72075 33036 32062 000 000	USB	(DM-HOL)
8137	E07a	17-9	0450	Wed	411 411 411 1 19097 1342 79 49682 90044 97253 ... 72075 33036 32062 000 000	USB	(DM-HOL)
9137	E07a	17-9	0510	Wed	411 411 411 1 19097 1342 79 49682 90044 97253 ... 72075 33036 32062	USB	(DM-HOL)

Freq.	Enigma	Date	UTC	Day	Remarks	Mode	Ctrb
					000 000		
8173	E07a	17-9	2000	Wed	147 1 19097 1342 79 49682 90044 97253 … 72075 33036 32062 000 000	USB	(Danix)
7473	E07a	17-9	2020	Wed	147 1 19097 1342 79 49682 90044 97253 … 72075 33036 32062 000 000	USB	(Danix)
5773	E07a	17-9	2040	Wed	147 1 19097 1342 79 49682 90044 97253 … 72075 33036 32062 000 000	USB	(Danix)
7437	E07a	18-9	0430	Thu	411 1 19097 1342 79 49682 90044 97253 … 72075 33036 32062 000 000	USB	(Danix)
7437	E07a	18-9	0430	Thu	411 1 19097 1342 79 49682	USB	(HFD)
8137	E07a	18-9	0450	Thu	411 1 19097 1342 79 49682 90044 97253 … 72075 33036 32062 000 000	USB	(Danix)
8137	E07a	18-9	0450	Thu	411 1 19097	USB	(HFD)
9137	E07a	18-9	0510	Thu	411 1 19097 1342 79 49682 90044 97253 … 72075 33036 32062 000 000	USB	(Danix)
10583	E07a	19-9	1510	Fri	531 1 13633 2182 67 33980 06257 87989 … 59381 72957 58210 000 000	USB	(Danix)
9383	E07a	19-9	1530	Fri	531 1 13633 2182 67 33980 06257 87989 … 59381 72957 58210 000 000	USB	(Danix)
8183	E07a	19-9	1550	Fri	531 1 13633 2182 67 33980 06257 87989 … 59381 72957 58210 000 000	USB	(Danix)
11153	E07a	20-9	0800	Sat	114 1 13633 2182 67 33980 06257 87989 … 59381 72957 58210 000 000	USB	(Danix)
12153	E07a	20-9	0820	Sat	114 1 13633 2182 67 33980 06257 87989 … 59381 72957 58210 000 000	USB	(Danix)
13453	E07a	20-9	0840	Sat	114 1 13633 2182 67 33980 06257 87989 … 59381 7295 7 58210 000 000	USB	(Danix)
8173	E07a	24-9	2000	Wed	147 147 147 000	USB	(Danix)
7473	E07a	24-9	2020	Wed	147 147 147 000	USB	(Danix)
7437	E07a	25-9	0430	Thu	411 411 411 000	USB	(Danix)
8137	E07a	25-9	0450	Thu	411 411 411 000	USB	(Danix)
10583	E07a	26-9	1510	Fri	531 1 61804 3346 95 82019 00489 90784 … 67459 96519 31786 000 000	USB	(GHn)
10583	E07a	26-9	1510	Fri	531 1 61804 3346 95 82019 00489 90784 … 67459 96519 31786 000 000	USB	(Danix)
9383	E07a	26-9	1530	Fri	531 1 61804 3346 95 82019 00489 90784 … 67459 96519 31786 000 000	USB	(Danix)
8183	E07a	26-9	1550	Fri	531 1 61804 3346 95 82019 00489 90784 … 67459 96519 31786 000 000	USB	(Danix)
11153	E07a	27-9	0800	Sat	114 114 114 1 61804 3346 95 3346 95 82019 00489 90784 … 67459 96519 31786 000 000	USB	(AB)
11153	E07a	27-9	0800	Sat	114 1 61804 3346 95 82019 00489 90784 … 67459 96519 31786 000 000	USB	(Danix)
12153	E07a	27-9	0820	Sat	114 1 61804 3346 95 82019 00489 90784 … 67459 96519 31786 000 000	USB	(Danix)
12153	E07a	27-9	0820	Sat	114 114 114 1 61804 3346 95 3346 95 82019 00489 90784 … 67459 96519 31786 000 000	USB	(AB)
13453	E07a	27-9	0840	Sat	114 1 61804 3346 95 82019 00489 90784 … 67459 96519 31786 000 000	USB	(Danix)
13453	E07a	27-9	0840	Sat	114 114 114 1 61804 3346 95 3346 95 82019 00489 90784 … 67459 96519 31786 000 000	USB	(AB)
9137	E07a	28-9	0510	Sun	411 1 19097	USB	(HFD)
6304	E11	1-9	0450	Mon	416/00	USB	(Danix)
10213	E11	1-9	0745	Mon	262/00	USB	(Danix)
9960	E11	1-9	0820	Mon	438/00	USB	(Danix)
9960	E11	1-9	0820	Mon	438/00	USB	(HFD)
10800	E11	2-9	0645	Tue	517/00	USB	(Danix)
10800	E11	2-9	0645	Tue	517/00	USB	(HFD)
10221	E11	2-9	0710	Tue	633/00	USB	(HFD)
10221	E11	2-9	0710	Tue	633/00	USB	(Danix)
10221	E11	2-9	0710	Tue	633/00	USB	(AB)
14575	E11	2-9	0745	Tue	337/35 Attention. Very weak	USB	(AB)
7449	E11	2-9	1045	Tue	469/00	USB	(Danix)
7449	E11	2-9	1045	Tue	469/00	USB	(HFD)
7850	E11	3-9	0315	Wed	253/00	USB	(Danix)
15915	E11	3-9	0545	Wed	348/00	USB	(Danix)
8803	E11	3-9	0930	Wed	270/00	USB	(Danix)
8803	E11	3-9	0930	Wed	270/00	USB	(HFD)
7449	E11	3-9	1045	Wed	469/00	USB	(Danix)
10213	E11	3-9	1705	Wed	392/00	USB	(HFD)
10213	E11	3-9	1705	Wed	392/00	USB	(AB/MPJ)
7850	E11	4-9	0315	Thu	253/00	USB	(Danix)
10800	E11	4-9	0645	Thu	517/00	USB	(Danix)
9960	E11	4-9	0820	Thu	438/00	USB	(Danix)
8803	E11	4-9	0930	Thu	270/00	USB	(Danix)
15915	E11	4-9	1155	Thu	718/00	USB	(MPJ)
10330	E11	4-9	1530	Thu	262/00	USB	(Danix)
9371	E11	4-9	1730	Thu	416/00	USB	(MPJ)
9371	E11	4-9	1730	Thu	416/00	USB	(HFD)
9371	E11	4-9	1730	Thu	416/00	USB	(Danix)
15915	E11	5-9	0545	Fri	348/00	USB	(HFD)

Freq.	Enigma	Date	UTC	Day	Remarks	Mode	Ctrb
15915	E11	5-9	0545	Fri	348/00	USB	(AnEur)
15915	E11	5-9	0545	Fri	348/00	USB	(Danix)
10221	E11	5-9	0710	Fri	633/00	USB	(AB)
10221	E11	5-9	0710	Fri	633/00	USB	(Danix)
10690	E11	5-9	0830	Fri	649/00	USB	(HFD)
10690	E11	5-9	0830	Fri	649/00	USB	(AB)
4909	E11	6-9	0900	Sat	248/00	USB	(HFD)
10213	E11	6-9	1705	Sat	392/00	USB	(MPJ)
8186	E11	6-9	2005	Sat	363/00	USB	(MPJ)
8186	E11	7-9	2005	Sun	363/00	USB	(HFD)
6304	E11	8-9	0450	Mon	416/00	USB	(Danix)
9960	E11	8-9	0820	Mon	438/00	USB	(Danix)
9660	E11	8-9	0820		438/00	USB	(AB)
9399	E11	8-9	0900	Mon	534/00	USB	(Danix)
9399	E11	8-9	0900		534/00	USB	(AB)
9399	E11	8-9	0900		534/00	USB	(BCI)
15915	E11	8-9	1540	Mon	228/00	USB	(Danix)
10800	E11	9-9	0645	Tue	517/00	USB	(Danix)
14575	E11	9-9	0745	Tue	335/00	USB	(Danix)
14575	E11	9-9	0745	Tue	335/00	USB	(AB)
7449	E11	9-9	1045	Tue	469/00	USB	(AB)
7449	E11	9-9	1045	Tue	469/00	USB	(Danix)
8102	E11	9-9	1045	Tue	576/00	USB	(Danix)
8102	E11	9-9	1045	Tue	576/00	USB	(AB)
15915	E11	10-9	0545	Wed	348/00	USB	(Danix)
11450	E11	10-9	0805	Wed	311/00	USB	(Danix)
9399	E11	10-9	0900	Wed	534/00	USB	(Danix)
7449	E11	10-9	1045	Wed	469/00	USB	(AB)
7449	E11	10-9	1045	Wed	469/00	USB	(Danix)
15915	E11	10-9	1155	Wed	718/00	USB	(HFD)
4909	E11	10-9	1445	Wed	287/00	USB	(Danix)
10800	E11	11-9	0645	Thu	517/00	USB	(AB)
10800	E11	11-9	0645	Thu	517/00	USB	(Danix)
14575	E11	11-9	0745	Thu	335/00	USB	(Danix)
14575	E11	11-9	0745	Thu	335/00	USB	(AB)
9960	E11	11-9	0820	Thu	438/00	USB	(Danix)
9960	E11	11-9	0820	Thu	438/00	USB	(AB)
4909	E11	11-9	0900	Thu	248/00	USB	(AB)
9371	E11	11-9	1400	Thu	416/00	USB	(GHn)
9371	E11	11-9	1730	Thu	416/00	USB	(Danix)
15915	E11	12-9	0545	Fri	348/00	USB	(Danix)
10221	E11	12-9	0710	Fri	634/38 Attention 00946 48006 40551 ... 22602 93118 93567 Attention, rpt msg, out	USB	(AB)
7377	E11	12-9	2000	Fri	576/00	USB	(Danix)
7377	E11	12-9	2000	Fri	576/00	USB	(AB)
4909	E11	13-9	1445	Sat	287/00	USB	(Danix)
8186	E11	13-9	2005	Sat	363/00	USB	(Topol)
11450	E11	14-9	0805	Sun	311/00	USB	(Danix)
15915	E11	14-9	1540	Sun	228/00	USB	(Danix)
10213	E11	15-9	0745	Mon	262/00	USB	(Danix)
9960	E11	15-9	0820	Mon	438/00	USB	(Danix)
9399	E11	15-9	0900	Mon	534/00	USB	(Danix)
15915	E11	15-9	1510	Mon	228/00	USB	(GHn)
15915	E11	15-9	1540	Mon	228/00	USB	(Danix)
10800	E11	16-9	0645	Tue	517/00	USB	(AB)
10800	E11	16-9	0645	Tue	517/00	USB	(Danix)
10221	E11	16-9	0710	Tue	633/00	USB	(Danix)
10221	E11	16-9	0710	Tue	633/00	USB	(AB)
14575	E11	16-9	0745	Tue	335/00	USB	(AB)
14575	E11	16-9	0745	Tue	335/00	USB	(Danix)
8102	E11	16-9	1045	Tue	576/00	USB	(Danix)
8102	E11	16-9	1045	Tue	576/00	USB	(HFD)

Freq.	Enigma	Date	UTC	Day	Remarks	Mode	Ctrb
12229	E11	16-9	1300	Tue	133/00	USB	(AB)
7850	E11	17-9	0315	Wed	253/00	USB	(Danix)
7850	E11	17-9	0315	Wed	253/00	USB	(HFD)
15915	E11	17-9	0545	Wed	348/00	USB	(Danix)
11450	E11	17-9	0805	Wed	311/00	USB	(Danix)
9399	E11	17-9	0900	Wed	534/00	USB	(Danix)
8803	E11	17-9	0930	Wed	270/00	USB	(Danix)
4909	E11	17-9	1445	Wed	287/00	USB	(Danix)
7850	E11	18-9	0315	Thu	253/00	USB	(Danix)
10800	E11	18-9	0645	Thu	517/00	USB	(AB)
10800	E11	18-9	0645	Thu	517/00	USB	(Danix)
14575	E11	18-9	0745	Thu	335/00	USB	(Danix)
9960	E11	18-9	0820	Thu	438/00	USB	(Danix)
8803	E11	18-9	0930	Thu	270/00	USB	(Danix)
10330	E11	18-9	1530	Thu	262/00	USB	(Danix)
15915	E11	19-9	0545	Fri	348/00	USB	(Danix)
10221	E11	19-9	0710	Fri	633/00	USB	(Danix)
10690	E11	19-9	0830	Fri	649/00	USB	(AB)
7377	E11	19-9	2000	Fri	576/00	USB	(Danix)
4909	E11	20-9	1445	Sat	287/00	USB	(Danix)
11450	E11	21-9	0805	Sun	311/00	USB	(Danix)
15915	E11	21-9	1540	Sun	228/00	USB	(GHn)
15915	E11	21-9	1540	Sun	228/00	USB	(Danix)
6304	E11	22-9	0450	Mon	416/00	USB	(Danix)
10213	E11	22-9	0745	Mon	262/00	USB	(Danix)
9399	E11	22-9	0900	Mon	534/00	USB	(Danix)
15915	E11	22-9	1540	Mon	228/00	USB	(Danix)
10221	E11	23-9	0710	Tue	633/00	USB	(Danix)
14575	E11	23-9	0745	Tue	335/00	USB	(Danix)
7449	E11	23-9	1045	Tue	469/00	USB	(Danix)
8102	E11	23-9	1045	Tue	576/00	USB	(Danix)
7850	E11	24-9	0315	Wed	253/00	USB	(Danix)
11450	E11	24-9	0805	Wed	311/00	USB	(Danix)
9399	E11	24-9	0900	Wed	534/00	USB	(Danix)
8803	E11	24-9	0930	Wed	270/00	USB	(Danix)
7449	E11	24-9	1045	Wed	469/00	USB	(Danix)
4909	E11	24-9	1445	Wed	287/00	USB	(Danix)
10213	E11	24-9	1705	Wed	392/00	USB	(GHn)
7850	E11	25-9	0315	Thu	253/00	USB	(Danix)
14575	E11	25-9	0745	Thu	335/00	USB	(Danix)
8803	E11	25-9	0930	Thu	270/00	USB	(Danix)
10330	E11	25-9	1530	Thu	262/00	USB	(Danix)
9371	E11	25-9	1730	Thu	416/00	USB	(Danix)
10221	E11	26-9	0710	Fri	633/00	USB	(Danix)
7377	E11	26-9	2000	Fri	576/00	USB	(Danix)
4909	E11	27-9	1445	Sat	287/00	USB	(Danix)
11450	E11	28-9	0805	Sun	311/00	USB	(Danix)
15915	E11	28-9	1540	Sun	228/00	USB	(Danix)
8186	E11	28-9	2005	Sun	363/00	USB	(GHn)
6304	E11	29-9	0450	Mon	416/00	USB	(Danix)
10213	E11	29-9	0745	Mon	262/00	USB	(Danix)
9960	E11	29-9	0820	Mon	438/00	USB	(Danix)
9960	E11	29-9	0820	Mon	438/00	USB	(AB)
10690	E11	29-9	0830	Mon	649/00	USB	(AB)
9399	E11	29-9	0900	Mon	534/00	USB	(Danix)
15915	E11	29-9	1540	Mon	228/00	USB	(Danix)
10800	E11	30-9	0645	Tue	517/00	USB	(Danix)
10221	E11	30-9	0710	Tue	633/00	USB	(AB)
10221	E11	30-9	0710	Tue	633/00	USB	(Danix)
14575	E11	30-9	0745	Tue	335/00	USB	(AB)
14575	E11	30-9	0745	Tue	335/00	USB	(Danix)
7449	E11	30-9	1045	Tue	489/00	USB	(KK2)

Freq.	Enigma	Date	UTC	Day	Remarks	Mode	Ctrb
8102	E11	30-9	1045	Tue	576/00	USB	(Danix)
7449	E11	30-9	1045	Tue	469/00	USB	(Danix)
9399	E11a	1-9	0900	Mon	533/38 1385#	USB	(HFD)
9399	E11a	1-9	0900	Mon	533/38 Attention 61386 00983 56863 ... 05276 80161 26496	USB	(Danix)
13375	E11a	1-9	1110	Mon	956/33 Attention 14000 03644 20457 ... 19288 23853 05374 Attention, rpt msg, out	USB	(AB)
13375	E11a	1-9	1110	Mon	956/33 14000	USB	(HFD)
13375	E11a	1-9	1110	Mon	956/33 Attention 14000 03644 20457 ... 19288 23853 05374	USB	(Danix)
15915	E11a	1-9	1540	Mon	220/32 93010	USB	(HFD)
15915	E11a	1-9	1540	Mon	220/32 Attention 93010 22858 13553 ... 46759 92709 27154	USB	(Danix)
5194	E11a	1-9	1710	Mon	959/27 = 27051	USB	(HFD)
5194	E11a	1-9	1710	Mon	959/27 Attention 27051 90393 85785 ... 27776 60978 62742	USB	(Danix)
10213	E11a	2-9	0530	Tue	981/10 60565	USB	(HFD)
10800	E11a	2-9	0645	Tue	517/00	USB	(AB)
14575	E11a	2-9	0745	Tue	337/35 Attention 38279 64712 46567 ... 53731 25807 44208	USB	(Danix)
14575	E11a	2-9	0745	Tue	337/35 38279	USB	(HFD)
8102	E11a	2-9	1045	Tue	573/34 Attention 59279 01390 48391 ... 94416 59423 74739	USB	(Danix)
13455	E11a	2-9	1810	Tue	982/10 33812	USB	(HFD)
13455	E11a	2-9	1810	Tue	982/10 Attention 33812 59480 15490 16427 13644 92964 59312 89301 17652 18333	USB	(MPJ)
11450	E11a	3-9	0805	Wed	376/35	USB	(Danix)
9399	E11a	3-9	0900	Wed	533/38 Attention 61386 00983 56863 ... 05276 80161 26496 (interrupted several times during TX)	USB	(Danix)
4909	E11a	3-9	1445	Wed	285/33 Attention 86274 09781 88963 ... 33771 76284 41380	USB	(Danix)
14575	E11a	4-9	0745	Thu	337/35 Attention 38279 64712 46567 ... 53731 25807 44208	USB	(Danix)
13375	E11a	5-9	1110	Fri	952/40 Traffic too weak to copy	USB	(MPJ)
13375	E11a	5-9	1110	Fri	952/40 Attention 13399 51981 29713 ... 22798 91151 35792	USB	(Danix)
5194	E11a	5-9	1710	Fri	957/30 Attention 48106 75853 91648 ... 56192 50669 82506	USB	(Danix)
7377	E11a	5-9	2000	Fri	573/34 Attention 59279 01390 48391 ... 94416 59423 74739	USB	(Danix)
7377	E11a	5-9	2000	Fri	573/34	USB	(HFD)
7377	E11a	5-9	2000	Fri	573/34 59279 01390 48391 52515 78962 ... 13152 88046 94416 59423 74739	USB	(MPJ)
13375	E11a	6-9	1400	Sat	981/10 00598	USB	(HFD)
13375	E11a	6-9	1400	Sat	981/10 Attention 00598 31107 39109 25323 31864 70976 94162 44007 44629 30206	USB	(MPJ)
4909	E11a	6-9	1445	Sun	285/33 = 86274	USB	(HFD)
4909	E11a	6-9	1445	Sat	285/33 Attention 86274 09781 88963 ... 33771 76284 41380	USB	(Danix)
11450	E11a	7-9	0805	Sun	376/35	USB	(Danix)
15915	E11a	7-9	1540	Sun	220/32 Attention 93010 22858 13553 ... 46759 92709 27154	USB	(Danix)
10213	E11a	8-9	0745	Mon	260/35 Attention 93884 72698 20040 ... 05706 57946 33351	USB	(Danix)
10213	E11a	8-9	0745		260/35 Attention 93884 72698 20040 ... 05706 57946 33351 Attention, rpt msg, out	USB	(AB)
13375	E11a	8-9	1110	Mon	952/39 Attention 95217 56581 21561 ... 37012 62655 48479	USB	(Danix)
5194	E11a	8-9	1710	Mon	953/31 Attention 72565 40813 77275 ... 30414 10425 53726	USB	(Danix)
5194	E11a	8-9	1710		953/31 Attention 72565 40813 77275 ... 30414 10425 53726 Attention, rpt msg, out	USB	(AB)
10221	E11a	9-9	0710	Tue	634/38 Attention 00946 48006 40551 ... 22602 93118 93567 Attention, rpt msg, out	USB	(AB)
10221	E11a	9-9	0710	Tue	634/38 Attention 00946 48006 40551 ... 22602 93118 93567	USB	(Danix)
13375	E11a	9-9	1400	Tue	987/10 Attention 14015 17221 51045 33956 03529 16980 90275 55556 92516 20013 Attn, rpt msg, out	USB	(GHn)
7850	E11a	10-9	0315	Wed	251/32 Attention 77782 64602 91596 ... 28567 32712 20785	USB	(Danix)
8803	E11a	10-9	0930	Wed	273/35 Attention 99959 38519 45593 ... 15381 52333 16739	USB	(Danix)
10213	E11a	10-9	1705	Wed	395/30 Attention 94260 43912 11192 ... 35126 86590 13850 Attention, rpt msg, out	USB	(AB)
7850	E11a	11-9	0315	Thu	251/32 Attention 77782 64602 91596 ... 28567 32712 20785	USB	(Danix)
8803	E11a	11-9	0930	Thu	273/35 Attention 99959 38519 45593 ... 15381 52333 16739	USB	(Danix)
8803	E11a	11-9	0930	Thu	273/35 Attention 99959 38519 45593 ... 15381 52333 16739 Attention, rpt msg, out	USB	(AB)
10330	E11a	11-9	1530	Thu	260/35 Attention 93884 72698 20040 ... 05706 57946 33351	USB	(Danix)
10330	E11a	11-9	1530	Thu	260/35 93884	USB	(HFD)
10221	E11a	12-9	0710	Fri	634/38 Attention 00946 48006 40551 ... 22602 93118 93567	USB	(Danix)
13375	E11a	12-9	1110	Fri	952/31 Attention 65105 73096 62962 ... 77215 44611 71799	USB	(Danix)
10213	E11a	12-9	1705	Fri	395/30 Attention 94260 43192 11192 ... 35126 86590 13850 Attention,	USB	(AB/CS)

Freq.	Enigma	Date	UTC	Day	Remarks	Mode	Ctrb
					rpt msg, out		
13375	E11a	13-9	1400	Sat	987/10 Attention 85477 67886 05676 52789 46588 14755 04166 07764 07656 67610 Att, rpt msg, out	USB	(GHn)
10213	E11a	13-9	1706	Sat	395/30 Attention 43192 11192 81726 …	USB	(LG2)
5194	E11a	13-9	1820	Sat	953/22 unreadable	USB	(GHn)
6304	E11a	15-9	0450	Mon	411/37 Attention 17211 63086 42875 … 73826 26410 52248	USB	(Danix)
5194	E11a	15-9	1710	Mon	957/20 Attention 83740 16693 83898 … 22714 10963 53380	USB	(Danix)
5194	E11a	15-9	1710	Mon	957/20 Attention 83740 16693 83898 … 22714 10963 53380 Attention, rpt msg, out	USB	(AB)
10213	E11a	16-9	0530	Tue	980/10 Attention 32483 24317 15993 16493 53407 50035 91736 23301 92402 05753 Att, rpt msg, out	USB	(DM-HOL)
7449	E11a	16-9	1045	Tue	469/33 Attention 57703 05299 08067 … 78004 39816 15992	USB	(Danix)
13375	E11a	16-9	1500	Tue	981/10 Attention 13493 79885 39211 72439 36749 77454 01101 95997 84820 24508 Att, rpt msg, out	USB	(AB)
13455	E11a	16-9	1810	Tue	982/10 Attention 94896 55805 21241 34690 47441 96895 00089 58895 34500 44503 Att, rpt msg, out	USB	(GHn)
7449	E11a	17-9	1045	Wed	469/33 Attention 57703 05299 08067 … 78004 39816 15992	USB	(Danix)
15915	E11a	18-9	1155	Thu	716/31 Attention 96159 25910 56660 … 54353 00558 27353 Attention, rpt msg, out	USB	(DM-HOL)
9371	E11a	18-9	1730	Thu	411/37 Attention 17211 63086 42875 … 73826 26410 52248	USB	(Danix)
13375	E11a	19-9	1710	Fri	955/22 Attention 55610 89423 66841 … 35149 72805 04666	USB	(Danix)
8186	E11a	20-9	2005	Sat	369/35 Attention 81696 75605 22566 … 17698 62347 09059 Attention, rpt msg, out	USB	(GHn)
8186	E11a	21-9	2010	Sun	i.p. .	USB	(BCI)
6304	E11a	22-9	0450	Mon	416/22 no msg "out"	USB	(HFD)
9960	E11a	22-9	0820	Mon	430/37 Attention 27909 11336 88464 … 01748 95522 78229	USB	(Danix)
5194	E11a	22-9	1710	Mon	959/30 Attention 97312 94456 45870 … 35934 41799 16189	USB	(Danix)
10800	E11a	23-9	0645	Tue	515/32 05169 73088 27680 … 03188 76101 06720	USB	(Danix)
6814	E11a	23-9	1950	Tue	420/21 Attention 48380 86669 64528 … 00205 10687 02284	USB	(Danix)
15915	E11a	24-9	0545	Wed	340/37 Attention 90786 43517 53723 … 97075 57827 19051	USB	(Danix)
12229	E11a	24-9	1300	Wed	136/37 12329	USB	(HFD)
12229	E11a	24-9	1304	Wed	i.p. 12980 12980 44337 44337 31881 …	USB	(AAI)
10800	E11a	25-9	0645	Thu	515/32 05169 73088 27680 … 03188 76101 06720	USB	(Danix)
9960	E11a	25-9	0820	Thu	430/37 Attention 27909 11336 88464 … 01748 95522 78229	USB	(Danix)
15915	E11a	26-9	0545	Fri	340/37 Attention 90786 43517 53723 … 97075 57827 19051	USB	(Danix)
13375	E11a	26-9	1110	Fri	950/40 Attention 31059 71809 49018 … 34188 86379 04329	USB	(Danix)
5194	E11a	26-9	1710	Fri	957/30 Attention 81111 15787 54052 … 30436 38385 29175	USB	(Danix)
10213	E11a	27-9	0530	Sat	985/10 Attention 45668 25308 98348 83302 66891 75071 82391 62120 64093 92622 Attention, rpt msg, out	USB	(AB)
13375	E11a	29-9	1110	Mon	958/31 Attention 65337 27310 68948 … 29450 52464 94597	USB	(Danix)
5194	E11a	29-9	1710	Mon	959/21 Attention 46265 04504 39703 … 63685 80999 75043	USB	(Danix)
5194	E11a	29-9	1810	Mon	959/21 Attention 46265 04504 39703 … 63685 80999 75043, Attention, rpt msg, out	USB	(GHn)
10213	E11a	30-9	0530	Tue	981/10 Attention 48337 98680 89402 04744 31760 98034 95087 42679 62491 45859 Att, rpt msg, out	USB	(DM-HOL)
13375	E11a	30-9	1400	Tue	982/10 Attention 63161 32123 84825 22437 85759 63939 41896 81141 18605 94095 (rpts)	USB	(MPJ)
14260	E17z	4-9	0800	Thu	674 930 5 31704 91596 47308 92107 40398 930 5 00000	USB	(AB)
14260	E17z	4-9	0800	Thu	674 930 5 31704 91596 47308 92107 40398	USB	(Danix)
14260	E17z	4-9	0800	Thu	674 930/5 31704	USB	(HFD)
12930	E17z	4-9	0810	Thu	674 930 5 31704 91596 47308 92107 40398 930 5 00000	USB	(AB)
12930	E17z	4-9	0810	Thu	674 930 5 31704 91596 47308 92107 40398	USB	(Danix)
12930	E17z	4-9	0810	Thu	674	USB	(HFD)
14260	E17z	11-9	0800	Thu	674 930 5 31704 91596 47308 92107 40398 930 5 00000	USB	(AB)
14260	E17z	11-9	0800	Thu	674 930 5 31704 91596 47308 92107 40398	USB	(Danix)
12930	E17z	11-9	0810	Thu	674 930 5 31704 91596 47308 92107 40398	USB	(Danix)
12930	E17z	11-9	0810	Thu	674 930 5 31704 91596 47308 92107 40398 930 5 00000	USB	(AB)
14260	E17z	18-9	0800	Thu	674 839 5 35283 01894 63866 19264 04826 839 5 00000	USB	(AB)
14260	E17z	18-9	0800	Thu	674 839 5 35283 01894 63866 19364 04826	USB	(Danix)
12930	E17z	18-9	0810	Thu	674 839 5 35283 01894 63866 19364 04826	USB	(Danix)
10240	E17z	18-9	1710	Thu	Stops and restarts several times. 274 856 30 81623 33878 89989 … 52849 44186 36398 856 30 00000	USB	(AB)
8118	E17z	18-9	1734	Thu	Test tone followed by "274". At 1738z "274", after a few repeats off and carrier down	USB	(toto/Danix)

54

Freq.	Enigma	Date	UTC	Day	Remarks	Mode	Ctrb
14260	E17z	25-9	0800	Thu	674 839 5 35283 01894 63866 19364 04826	USB	(Danix)
12930	E17z	25-9	0810	Thu	674 839 5 35283 01894 63866 19364 04826	USB	(Danix)
8180	E17z	28-9	1410	Sun	274 850 6 …13 77249 40678 17976 21816 42997	USB	(Danix/AAI)
9450	E25a	25-9	1218	Thu	Enta omri 80 4 830 4 (rptd) Message. Rebeat. EOM. EOT. Cut off music at the end.	AM	(toto)
10255	E907b	11-9	0950	Thu	123 123 123 1 1 9332 18 9332 18 40837 48130 87686… 71585 43424 36848	USB	(Avare/FYM/toto)
18144	EGY	19-8	0740	Tue	MFA Cairo clg KKVD embassy Conakry	Sitor-A 100/170	(IARUMS)
18471	EGY	2-9	0959	Tue	MFA Cairo	Sitor-A 100/170	(LG2)
19346.7	EGY	12-9	1154	Fri	MFA Cairo	Sitor-A 100/170	(LG2)
19346.7	EGY	12-9	1156	Fri	MFA Cairo clg OOVP embassy Islamabad	Sitor-A 100/170	(LG2)
19346.7	EGY	12-9	1204	Fri	MFA Cairo clg 1004170 948672 917502 655323	Codan chirp	(LG2)
18471	EGY	14-9	1009	Sun	MFA Cairo clg TVXX embassy Sanaa	Sitor-A 100/170	(LG2)
20125.7	EGY	15-9	1656	Mon	MFA Cairo	Sitor-A 100/170	(LG2)
20326.7	EGY	25-9	1107	Thu	MFA Cairo clg KKVD: embassy Conakry "KKVD"	SITOR-A 100/170	(MCO)
6770	EGY	26-9	1835	Fri	99902: MFA Cairo clg 13	Codan chirp 80/2400	(PPA)
6774	G06	1-9	0800	Mon	215 215 215 00000	USB	(Danix)
4573	G06	1-9	1700	Mon	367 0	USB	(HFD)
4573	G06	1-9	1700	Mon	367 367 367 00000	USB	(Danix)
5478	G06	1-9	1800	Mon	367 0	USB	(HFD)
5478	G06	1-9	1800	Mon	367 367 367 00000	USB	(Danix)
4526	G06	4-9	1300	Thu	215 215 215 00000	USB	(Danix)
9226	G06	5-9	1900	Fri	167 167 167 00000	USB	(Danix)
9226	G06	5-9	1900	Fri	167 0	USB	(HFD)
6982	G06	5-9	2000	Fri	167 0	USB	(HFD)
6982	G06	5-9	2000	Fri	167 167 167 00000	USB	(Danix)
6982	G06	5-9	2000	Fri	167 167 167 00000	USB	(KK2)
6774	G06	8-9	0800	Mon	215 215 215 00000	USB	(Danix)
6774	G06	8-9	0800		215 215 215 00000	USB	(AB)
4573	G06	8-9	1700	Mon	367 367 367 00000	USB	(Danix)
5478	G06	8-9	1800	Mon	367 367 367 00000	USB	(Danix)
5478	G06	8-9	2000		367 367 367 00000	USB	(AB)
4526	G06	11-9	1300	Thu	215 215 215 00000	USB	(Danix)
4526	G06	11-9	1300	Thu	215 215 215 00000	USB	(Danix)
5934	G06	11-9	1830	Thu	579 832/20 37839	USB	(HFD)
5934	G06	11-9	1830	Thu	579 (R) 832 832 20 20 37839 35787 98273 … 60491 75924 04594 832 832 20 20 00000	USB	(AB)
5442	G06	12-9	1930	Fri	947 215 20 28132 75514 79881 … 49872 63962 24884 215 20 00000	USB	(AB)
6774	G06	15-9	0800	Mon	215 215 215 00000	USB	(Danix)
6774	G06	15-9	0800	Mon	215 0	USB	(HFD)
4526	G06	18-9	1300	Thu	215 215 215 00000	USB	(Danix)
9226	G06	19-9	1900	Fri	167 167 167 00000	USB	(Danix)
6982	G06	19-9	2000	Fri	167 167 167 00000	USB	(Danix)
6774	G06	22-9	0800	Mon	215 215 215 00000	USB	(Danix)
4526	G06	25-9	1300	Thu	215 215 215 00000	USB	(Danix)
5442	G06	26-9	1930	Fri	947 215/20 06132	USB	(HFD)
6774	G06	29-9	0800	Mon	215 215 215 00000	USB	(Danix)
6774	G06	29-9	0800	Mon	215 215 215 00000	USB	(AB)
5855	HM01	1-9	0522	Mon	i.p. 41357 73124 16621 37223 17685 52301	AM/RDFT	(AB)
10345	HM01	1-9	0600	Mon	41357 73124 16621 37223 17685 52301	AM/RDFT	(AB)
10345	HM01	1-9	0610	Mon	Cuban Intelligence	AM/RDFT	(LG2)
11435	HM01	1-9	1605	Mon	41538 73125 16622 37224 17686 52301	AM/RDFT	(DSch)
11530	HM01	1-9	1704	Mon	41538 73125 16622 37224 17686 52301 41538	AM/RDFT	(DSch)
11635	HM01	1-9	1802	Mon	41538 73125 16622 37224 17686 52301 41538	AM/RDFT	(DSch)
11635	HM01	1-9	2200	Mon	41538 73125 16622 37224 17686 52301 41538	AM/RDFT	(DSch)
11462	HM01	2-9	0500	Tue	41538 73125 16622 37224 17686 52301	AM/RDFT	(SFNY)
11635	HM01	2-9	0800	Tue	41538 73125 16622 37224 17686 52301	AM/RDFT	(AB)
11635	HM01	2-9	1030	Tue	41538 73125 16622 37224 17686 52301. Not in sync with 12180 kHz	AM/RDFT	(DSch)
12180	HM01	2-9	1030	Tue	41538 73125 16622 37224 17686 52301. Not in sync with 11635 kHz	AM/RDFT	(DSch)
11435	HM01	2-9	1640	Tue	82701 73126 16623 37225 17687 52302	AM/RDFT	(DSch)
11530	HM01	2-9	1731	Tue	82701 73126 16623 37225 17687 52302	AM/RDFT	(DSch)
11635	HM01	2-9	1801	Tue	82701 73126 16623 37225 17687 52302	AM/RDFT	(DSch)

Freq.	Enigma	Date	UTC	Day	Remarks	Mode	Ctrb
16180	HM01	2-9	2100	Tue	82701 73126 16623 37225 17687 52302	AM/RDFT	(DSch)
17480	HM01	2-9	2200	Tue	82701 73126 16623 37225 17687 52302	AM/RDFT	(DSch/Dan)
5855	HM01	3-9	0500	Wed	82701 73126 16623 37225 17687 52302	AM/RDFT	(SFNY)
5855	HM01	3-9	0953	Wed	82701 73126 16623 37225 17687 53302. Not in sync with 9155 kHz	AM/RDFT	(DSch)
9155	HM01	3-9	0955	Wed	82701 73126 16623 37225 17687 53302. Not in sync with 5855 kHz	AM/RDFT	(DSch)
11530	HM01	3-9	1710	Wed	82701 73127 16624 37226 17688 52303	AM/RDFT	(DSch)
11635	HM01	3-9	1808	Wed	82701 73127 16624 37226 17688 52303	AM/RDFT	(DSch)
11635	HM01	3-9	2104	Wed	82701 73127 16624 37226 17688 52303	AM/RDFT	(DSch)
10715	HM01	3-9	2200	Wed	82701 73127 16624 37226 17688 52303	AM/RDFT	(AB/DSch)
11462	HM01	4-9	0500	Thu	82701 73127 16624 37226 17688 52303	AM/RDFT	(SFNY)
11635	HM01	4-9	0800	Thu	82701 73127 16624 37226 17688 52303	AM/RDFT	(AB)
11435	HM01	4-9	1559	Thu	82701 73127 16624 37226 17688 52303	AM/RDFT	(DSch)
11530	HM01	4-9	1710	Thu	82701 73127 16624 37226 17688 52303	AM/RDFT	(DSch)
11635	HM01	4-9	1759	Thu	82701 73127 16624 37226 17688 52303	AM/RDFT	(DSch)
16180	HM01	4-9	2101	Thu	82701 73127 16624 37226 17688 52303	AM/RDFT	(DSch)
17480	HM01	4-9	2200	Thu	82701 73127 16624 37226 17688 52303	AM/RDFT	(DSch)
5855	HM01	5-9	0500	Fri	82701 73127 16624 37226 17688 52303	AM/RDFT	(SFNY)
10345	HM01	5-9	0610	Fri	82701 73127 16624 37226 17688 52303	AM/RDFT	(LG2)
10345	HM01	5-9	0614	Fri	82701 73127 16624 37226 17688 52303 + files in RDFT 78061662.txt	AM/RDFT	(PPA)
9065	HM01	5-9	0816	Fri	82701 73127 16624 37226 17688 52303 + files in RDFT 78061662.txt	AM/RDFT	(PPA)
9065	HM01	5-9	0844	Fri	82701 73127 16624 37226 17688 52303	AM/RDFT	(LG2)
9155	HM01	5-9	1036	Fri	i.p. 82701 73127 16624 37226 17688 52303. Not in sync with 5855 kHz	AM/RDFT	(DSch)
5855	HM01	5-9	1036	Fri	i.p. 82701 73127 16624 37226 17688 52303. Not in sync with 9155 kHz	AM/RDFT	(DSch)
11530	HM01	5-9	1705	Fri	i.p. 82701 73127 16624 37226 17688 52303	AM/RDFT	(DSch)
11635	HM01	5-9	1759	Fri	82701 73127 16624 37226 17688 52303	AM/RDFT	(DSch)
11635	HM01	5-9	2200	Fri	82701 73127 16624 17688 52303. Should be on 10715 kHz. Shuts down at 2203z	AM/RDFT	(DSch)
10715	HM01	5-9	2204	Fri	Starts tuning at 2204z. Comes fro, 11635 kHz. 82701 73127 16624 17688 52303	AM/RDFT	(DSch)
11462	HM01	6-9	0500	Sat	82701 73127 16624 37226 17688 52303	AM/RDFT	(SFNY)
14375	HM01	6-9	0600	Sat	82701 73127 16624 37226 17688 52303	AM/RDFT	(AB)
12180	HM01	6-9	1007	Sat	82701 73127 16624 37226 17688 52303 //11635 kHz	AM/RDFT	(DSch)
11635	HM01	6-9	1007	Sat	82701 73127 16624 37226 17688 52303 //12180 kHz	AM/RDFT	(DSch)
11435	HM01	6-9	1559	Sat	82701 73127 16624 37226 17688 52303 82701	AM/RDFT	(DSch)
11530	HM01	6-9	1702	Sat	82701 73127 16624 37226 17688 52303 82701	AM/RDFT	(DSch)
11635	HM01	6-9	1759	Sat	82701 73127 16624 37226 17688 52303 82701	AM/RDFT	(DSch)
16180	HM01	6-9	2100	Sat	82701 73127 16624 37226 17688 52303 82701	AM/RDFT	(DSch)
17480	HM01	6-9	2206	Sat	82701 73127 16624 37226 17688 52303 82701	AM/RDFT	(DSch)
5855	HM01	7-9	0500	Sun	82701 73127 16624 37226 17688 52303	AM/RDFT	(AB/SFNY)
10345	HM01	7-9	0600	Sun	82701 73127 16624 37226 17688 52303	AM/RDFT	(AB)
9330	HM01	7-9	0700	Sun	82701 73127 16624 37226 17688 52303	AM/RDFT	(AB)
9065	HM01	7-9	0800	Sun	82701 73127 16624 37226 17688 52303	AM/RDFT	(AB)
9240	HM01	7-9	0900	Sun	82701 73127 16624 37226 17688 52303	AM/RDFT	(AB)
11435	HM01	7-9	1603	Sun	82701 73127 16624 37226 17688 52303	AM/RDFT	(DSch)
11530	HM01	7-9	1700	Sun	82701 73127 16624 37226 17688 52303	AM/RDFT	(DSch)
11635	HM01	7-9	2109	Sun	82701 73127 16624 37226 17688 52303	AM/RDFT	(DSch)
10715	HM01	7-9	2200	Sun	82701 73127 16624 37226 17688 52303	AM/RDFT	(DSch/Dan)
5855	HM01	8-9	0500		82701 73127 16624 37226 17688 52303	AM/RDFT	(SFNY)
5855	HM01	8-9	0500		82701 73127 16624 37226 17688 52303	AM/RDFT	(AB)
10345	HM01	8-9	0600		82701 73127 16624 37226 17688 52303	AM/RDFT	(AB)
9330	HM01	8-9	0700		82701 73127 16624 37226 17688 52303	AM/RDFT	(AB/EW)
9065	HM01	8-9	0800		82701 73127 16624 37226 17688 52303	AM/RDFT	(AB)
9240	HM01	8-9	0900		82701 73127 16624 37226 17688 52303	AM/RDFT	(AB)
11635	HM01	8-9	1800		82701 73127 16624 37226 70340 52303	AM/RDFT	(DSch)
10715	HM01	8-9	2033		DGI i.p.	AM/RDFT	(LG2)
11635	HM01	8-9	2100		82701 73127 16624 37226 70340 52303	AM/RDFT	(DSch)
14375	HM01	9-9	0500	Tue	82701 73127 16624 37226 70340 52303	AM/RDFT	(SFNY)
14375	HM01	9-9	0600	Tue	82701 73127 16624 37226 70340 52303	AM/RDFT	(AB)
13435	HM01	9-9	0700	Tue	82701 73127 16624 37226 70340 52303	AM/RDFT	(AB)
11635	HM01	9-9	0800	Tue	82701 73127 16624 37226 70340 52303. Mixing with S06s	AM/RDFT	(AB)
11462	HM01	9-9	0900	Tue	82701 73127 16624 37226 70340 52303	AM/RDFT	(AB)
11435	HM01	9-9	1600	Tue	82702 73128 16625 37337 70341 52304	AM/RDFT	(DSch)

Freq.	Enigma	Date	UTC	Day	Remarks	Mode	Ctrb
11530	HM01	9-9	1738	Tue	82702 73128 16625 37337 70341 52304	AM/RDFT	(DSch)
11635	HM01	9-9	1800	Tue	82702 73128 16625 37337 70341 52304	AM/RDFT	(DSch)
16180	HM01	9-9	2100	Tue	82702 73128 16625 37337 70341 52304	AM/RDFT	(DSch)
17480	HM01	9-9	2211	Tue	82702 73128 16625 37337 70341 52304	AM/RDFT	(DSch)
5855	HM01	10-9	0500	Wed	82702 73128 16625 37227 70341 52304	AM/RDFT	(AB/SFNY)
11435	HM01	10-9	1604	Wed	82703 86021 16626 35271 70342 52305	AM/RDFT	(DSch)
11635	HM01	10-9	2100	Wed	82703 86021 16626 35271 70342 52305	AM/RDFT	(DSch)
10715	HM01	10-9	2200	Wed	82703 86021 16626 35271 70342 52305	AM/RDFT	(Dan)
11462	HM01	11-9	0500	Thu	82703 86021 16626 35271 70342 52305	AM/RDFT	(AB)
14375	HM01	11-9	0500	Thu	82703 87021 16626 35271 70342 52305	AM/RDFT	(SFNY)
14375	HM01	11-9	0600	Thu	82703 86021 16626 35271 70342 52305	AM/RDFT	(AB)
13435	HM01	11-9	0700	Thu	82703 86021 16626 35271 70342 52305	AM/RDFT	(AB)
11635	HM01	11-9	0800	Thu	82703 86021 16626 35271 70342 52305	AM/RDFT	(AB)
11530	HM01	11-9	1706	Thu	82704 86021 16627 35271 70343 52306	AM/RDFT	(DSch)
11635	HM01	11-9	1840	Thu	82704 86021 16627 35271 70343 52306	AM/RDFT	(DSch)
16180	HM01	11-9	2104	Thu	82704 86021 16627 35271 70343 52306	AM/RDFT	(DSch)
17480	HM01	11-9	2200	Thu	82704 86021 16627 35271 70343 52306	AM/RDFT	(Dan)
5855	HM01	12-9	0500	Fri	82704 87021 16627 35271 70343 52306	AM/RDFT	(SFNY)
10345	HM01	12-9	0600	Fri	82704 86021 16627 35271 70343 52306	AM/RDFT	(AB)
9330	HM01	12-9	0700	Fri	82704 86021 16627 35271 70343 52306	AM/RDFT	(AB)
9065	HM01	12-9	0800	Fri	82704 86021 16627 35271 70343 52306	AM/RDFT	(AB)
11435	HM01	12-9	1634	Fri	82704 86021 16627 35271 70343 52306	AM/RDFT	(DSch)
11530	HM01	12-9	1730	Fri	82704 86021 16627 35271 70343 52306 82704 etc 121730	AM/RDFT	(DSch)
11635	HM01	12-9	1807	Fri	82704 86021 16627 35271 70343 52306 82704 etc 121807	AM/RDFT	(DSch)
11635	HM01	12-9	2100	Fri	82704 86021 16627 35271 70343 52306	AM/RDFT	(AB/DSch)
10715	HM01	12-9	2202	Fri	82704 86021 16627 35271 70343 52306 82704 etc 2202	AM/RDFT	(DSch)
14375	HM01	13-9	0500	Sat	82704 87021 16627 35271 70343 52306	AM/RDFT	(SFNY)
14375	HM01	13-9	0600	Sat	82704 87021 16627 35271 70343 52306	AM/RDFT	(SFNY)
13435	HM01	13-9	0706	Sat	Late start. Tuning on 13436 kHz at 0705z then moved to 13435 kHz at 0706z	AM/RDFT	(AB)
11435	HM01	13-9	1610	Sat	82706 86023 16629 35273 70345 04711	AM/RDFT	(DSch)
11635	HM01	13-9	1800	Sat	82706 86023 16629 35273 70345 04711	AM/RDFT	(DSch)
16180	HM01	13-9	2100	Sat	82706 86023 16629 35273 70345 04711	AM/RDFT	(DSch)
17480	HM01	13-9	2204	Sat	82706 86023 16629 35273 70345 04711	AM/RDFT	(DSch)
5855	HM01	14-9	0500	Sun	82706 87023 16629 35273 70345 04711	AM/RDFT	(SFNY)
11435	HM01	14-9	1600	Sun	82707 86024 36211 35274 70346 04711	AM/RDFT	(DSch)
11530	HM01	14-9	1700	Sun	82707 86024 36211 35274 70346 04711	AM/RDFT	(DSch)
11635	HM01	14-9	1839	Sun	82707 86024 36211 35274 70346 04711	AM/RDFT	(DSch)
10715	HM01	14-9	2200	Sun	82707 86024 36211 35274 70346 04711	AM/RDFT	(Dan/DSch)
5855	HM01	15-9	0500	Mon	82707 87024 36211 35274 70346 04711	AM/RDFT	(SFNY)
10345	HM01	15-9	0600	Mon	82707 86024 36211 35274 70346 04711	AM/RDFT	(AB)
9065	HM01	15-9	0808	Mon	82708 86025 36211 35275 70347 04712	AM/RDFT	(LG2)
9235	HM01	15-9	0853	Mon	82708 86025 36211 35275 70347 04712	AM/RDFT	(LG2)
11435	HM01	15-9	1608	Mon	82708 86025 36211 35275 70347 04712	AM/RDFT	(DSch)
11530	HM01	15-9	1659	Mon	82708 86025 36211 35275 70347 04712	AM/RDFT	(DSch)
11635	HM01	15-9	1841	Mon	82708 86025 36211 35275 70347 04712	AM/RDFT	(DSch)
11635	HM01	15-9	2100	Mon	82708 86025 36211 35275 70347 04712	AM/RDFT	(DSch)
10715	HM01	15-9	2211	Mon	82708 86025 36211 35275 70347 04712	AM/RDFT	(DSch)
11462	HM01	16-9	0500	Tue	82708 86025 36211 35275 70347 04712	AM/RDFT	(SFNY)
14375	HM01	16-9	0600	Tue	82708 86025 36211 35275 70347 04712 //11462 kHz	AM/RDFT	(AB/Danix)
11462	HM01	16-9	0600	Tue	82708 86025 36211 35275 70347 04712 //14375 kHz	AM/RDFT	(Danix)
13435	HM01	16-9	0700	Tue	82708 86025 36211 35275 70347 04712	AM/RDFT	(AB)
11635	HM01	16-9	0800	Tue	82708 86025 36211 35275 70347 04712. Mixing with S06s	AM/RDFT	(AB)
13435	HM01	16-9	1606	Tue	23201 86026 36212 35276 26041 04713	AM/RDFT	(DSch)
11635	HM01	16-9	1758	Tue	23201 86026 36212 35276 26041 04713	AM/RDFT	(DSch)
16180	HM01	16-9	2100	Tue	23201 86026 36212 35276 26041 04713	AM/RDFT	(DSch)
5855	HM01	17-9	0500	Wed	23201 86026 36212 35276 26041 04713	AM/RDFT	(SFNY)
5855	HM01	17-9	0500	Wed	23201 86026 36212 35276 26041 04713	AM/RDFT	(AB)
10345	HM01	17-9	0600	Wed	23201 86026 36212 35276 26041 04713	AM/RDFT	(AB)
9330	HM01	17-9	0700	Wed	23201 86026 36212 35276 26041 04713	AM/RDFT	(AB)
11435	HM01	17-9	1600	Wed	23201 86027 36213 35277 26041 04714	AM/RDFT	(DSch)
11530	HM01	17-9	1702	Wed	23201 86027 36213 35277 26041 04714	AM/RDFT	(DSch)

Freq.	Enigma	Date	UTC	Day	Remarks	Mode	Ctrb
11635	HM01	17-9	1814	Wed	23201 86027 36213 35277 26041 04714	AM/RDFT	(DSch)
11635	HM01	17-9	2100	Wed	23201 86027 36213 35277 26041 04714	AM/RDFT	(DSch)
10715	HM01	17-9	2200	Wed	23201 86027 36213 35277 26041 04714	AM/RDFT	(DSch)
17480	HM01	17-9	2208	Wed	Carrier but no transmission	AM/RDFT	(DSch)
11462	HM01	18-9	0500	Thu	23201 86027 36213 35277 26041 04714	AM/RDFT	(SFNY)
14375	HM01	18-9	0500	Thu	23201 86027 36213 35277 26041 04714	AM/RDFT	(SFNY)
14375	HM01	18-9	0600	Thu	23201 86027 36213 35277 26041 04714	AM/RDFT	(AB)
13435	HM01	18-9	0700	Thu	23201 86027 36213 35277 26041 04714	AM/RDFT	(AB)
11635	HM01	18-9	1803	Thu	23202 86028 36214 35278 26042 04715	AM/RDFT	(DSch)
17480	HM01	18-9	2200	Thu	23202 86028 36214 35278 26042 04715	AM/RDFT	(Dan/DSch)
5855	HM01	19-9	0500	Fri	23202 86028 36214 35278 26042 04715	AM/RDFT	(SFNY)
9065	HM01	19-9	0803	Fri	DGI	AM/RDFT	(LG2)
11530	HM01	19-9	1745	Fri	23203 25721 36215 05681 26043 04716	AM/RDFT	(DSch)
11635	HM01	19-9	1837	Fri	23203 25721 36215 05681 26043 04716	AM/RDFT	(DSch)
11635	HM01	19-9	2102	Fri	23203 25721 36215 05681 26043 04716	AM/RDFT	(DSch)
10715	HM01	19-9	2200	Fri	23203 25721 36215 05681 26043 04716	AM/RDFT	(DSch)
14375	HM01	20-9	0500	Sat	23203 25721 36215 05681 26043 04716	AM/RDFT	(SFNY)
11462	HM01	20-9	0500	Sat	23203 25721 36215 05681 26043 04716	AM/RDFT	(SFNY)
11435	HM01	20-9	1601	Sat	23204 25721 36216 05681 26044 04717	AM/RDFT	(DSch)
11530	HM01	20-9	1700	Sat	23204 25721 36216 05681 26044 04717	AM/RDFT	(DSch)
11635	HM01	20-9	1800	Sat	23204 25721 36216 05681 26044 04717	AM/RDFT	(DSch)
16180	HM01	20-9	2100	Sat	23204 25721 36216 05681 26044 04717	AM/RDFT	(DSch/N2UHC)
16180	HM01	20-9	2103	Sat	YL/SS and RDFT tones	AM/RDFT	(N2UHC)
17480	HM01	20-9	2200	Sat	23204 25721 36216 05681 26044 04717	AM/RDFT	(Dan)
17480	HM01	20-9	2200	Sat	23204 25721 36216 05681 26044 04717	AM/RDFT	(DSch/N2UHC)
5855	HM01	21-9	0500	Sun	23204 25721 36216 05681 26044 04717	AM/RDFT	(SFNY)
9065	HM01	21-9	0844	Sun	DGI	AM/RDFT	(LG2)
9065	HM01	21-9	1030	Sun	23204 25721 36216 05681 26044 04717	AM/RDFT	(AB)
11435	HM01	21-9	1605	Sun	23205 25722 36217 05682 26045 30641	AM/RDFT	(DSch)
11530	HM01	21-9	1700	Sun	23205 25722 36217 05682 26045 30641	AM/RDFT	(DSch)
11635	HM01	21-9	2100	Sun	23205 25722 36217 05682 26045 30641	AM/RDFT	(DSch)
11635	HM01	21-9	2100	Sun	23205 25722 36217 05682 26045 30641	AM/RDFT	(DSch)
10715	HM01	21-9	2200	Sun	23205 25722 36217 05682 26045 30641	AM/RDFT	(Dan)
10715	HM01	21-9	2208	Sun	23205 25722 36217 05682 26045 30641	AM/RDFT	(DSch)
5855	HM01	22-9	0500	Mon	Unreadable	AM/RDFT	(SFNY)
10345	HM01	22-9	0600	Mon	23205 25722 36217 05682 26045 30641	AM/RDFT	(SFNY)
11435	HM01	22-9	1642	Mon	23206 2723 36218 05683 26046 30641	AM/RDFT	(DSch)
11530	HM01	22-9	1708	Mon	23206 2723 36218 05683 26046 30641	AM/RDFT	(DSch)
11635	HM01	22-9	1800	Mon	23206 2723 36218 05683 26046 30641	AM/RDFT	(DSch)
11635	HM01	22-9	2100	Mon	23206 2723 36218 05683 26046 30641	AM/RDFT	(DSch)
10715	HM01	22-9	2200	Mon	23206 2723 36218 05683 26046 30641	AM/RDFT	(DSch)
14375	HM01	23-9	0600	Tue	23206 25723 36218 05683 26046 30641	AM/RDFT	(SFNY)
11435	HM01	23-9	1600	Tue	23207 25724 36219 05684 26047 30642	AM/RDFT	(DSch)
11530	HM01	23-9	1703	Tue	23207 25724 36219 05684 26047 30642	AM/RDFT	(DSch)
11635	HM01	23-9	1800	Tue	23207 25724 36219 05684 26047 30642	AM/RDFT	(DSch)
16180	HM01	23-9	2103	Tue	23207 25724 36219 05684 26047 30642	AM/RDFT	(DSch)
17480	HM01	23-9	2200	Tue	23207 25724 36219 05684 26047 30642	AM/RDFT	(DSch)
5855	HM01	24-9	0500	Wed	23207 25724 36219 05684 26047 30642	AM/RDFT	(SFNY)
11435	HM01	24-9	1559	Wed	23208 25725 67051 05685 26048 30643	AM/RDFT	(DSch)
11435	HM01	24-9	1559	Wed	23208 25725 67051 05685 26048 30643	AM/RDFT	(DSch)
11530	HM01	24-9	1701	Wed	23208 25725 67051 05685 26048 30643	AM/RDFT	(DSch)
11530	HM01	24-9	1701	Wed	23208 25725 67051 05685 26048 30643	AM/RDFT	(DSch)
11635	HM01	24-9	1809	Wed	23208 25725 67051 05685 26048 30643	AM/RDFT	(DSch)
11635	HM01	24-9	1809	Wed	23208 25725 67051 05685 26048 30643	AM/RDFT	(DSch)
11635	HM01	24-9	2116	Wed	23208 25725 67051 05685 26048 30643	AM/RDFT	(DSch)
11635	HM01	24-9	2116	Wed	23208 25725 67051 05685 26048 30643	AM/RDFT	(DSch)
10715	HM01	24-9	2200	Wed	23208 25725 67051 05685 26048 30643	AM/RDFT	(Dan)
16180	HM01	25-9	2059	Thu	23209 25726 67051 05686 10301 30644	AM/RDFT	(DSch)
16180	HM01	25-9	2150	Thu	23209 25726 67051 05686 10301 30644	AM/RDFT	(Dan)
17480	HM01	25-9	2200	Thu	23209 25726 67051 05686 10301 30644	AM/RDFT	(Dan)
5855	HM01	26-9	0500	Fri	23209 25726 67051 05686 10301 30644	AM/RDFT	(SFNY)
11635	HM01	26-9	2107	Fri	41171 25727 67052 05687 10301 30645	AM/RDFT	(DSch)

Freq.	Enigma	Date	UTC	Day	Remarks	Mode	Ctrb
10715	HM01	26-9	2214	Fri	41171 25727 67052 05687 10301 30645	AM/RDFT	(DSch)
14375	HM01	27-9	0600	Sat	41171 25727 67052 05687 10301 30645	AM/RDFT	(SFNY)
5855	HM01	28-9	0500	Sun	41171 25728 67053 24861 10302 30646	AM/RDFT	(SFNY)
11435	HM01	28-9	1601	Sun	41172 25729 67054 24861 10303 30647	AM/RDFT	(DSch)
11530	HM01	28-9	1701	Sun	41172 25729 67054 24861 10303 30647	AM/RDFT	(DSch)
11635	HM01	28-9	1800	Sun	41172 25729 67054 24861 10303 30647	AM/RDFT	(DSch)
11635	HM01	28-9	2105	Sun	41172 25729 67054 24861 10303 30647	AM/RDFT	(DSch)
10715	HM01	28-9	2200	Sun	41172 25729 67054 24861 10303 30647	AM/RDFT	(DSch/Dan)
5855	HM01	29-9	0500	Mon	41172 25729 67054 24861 10303 30647	AM/RDFT	(AB/SFNY)
10345	HM01	29-9	0600	Mon	41172 25729 67054 24861 10303 30647	AM/RDFT	(AB/SFNY)
9330	HM01	29-9	0700	Mon	41172 25729 67054 24861 10303 30647	AM/RDFT	(AB)
9065	HM01	29-9	0800	Mon	41172 25729 67054 24861 10303 30647	AM/RDFT	(AB)
9240	HM01	29-9	0900	Mon	41172 25729 67054 24861 10303 30647	AM/RDFT	(AB)
9155	HM01	29-9	1000	Mon	41172 25729 67054 24861 10303 30647	AM/RDFT	(AB)
11530	HM01	29-9	1709	Mon	41173 68621 67055 24862 10304 25061	AM/RDFT	(DSch)
11635	HM01	29-9	1841	Mon	41173 68621 67055 24862 10304 25061	AM/RDFT	(DSch)
11635	HM01	29-9	2102	Mon	41173 68621 67055 24862 10304 25061	AM/RDFT	(DSch)
11462	HM01	30-9	0500	Tue	41173 68621 67055 24862 10304 25061	AM/RDFT	(SFNY)
14375	HM01	30-9	0600	Tue	41173 68621 67055 24862 10304 25061	AM/RDFT	(SFNY)
11635	HM01	30-9	0800	Tue	41173 68621 67055 24862 10304 25061	AM/RDFT	(AB)
11435	HM01	30-9	1619	Tue	41174 68621 67056 24863 10305 25061	AM/RDFT	(DSch)
11530	HM01	30-9	1700	Tue	41174 68621 67056 24863 10305 25061	AM/RDFT	(DSch)
11635	HM01	30-9	1806	Tue	41174 68621 67056 24863 10305 25061	AM/RDFT	(DSch)
16180	HM01	30-9	2129	Tue	41174 68621 67056 24863 10305 25061	AM/RDFT	(DSch)
18724.7	IND	11-9	1001	Thu	MFA Delhi msg to embassy Yangon Myanmar. zczc ryryry 8wd2 de 8wa3 greetings of the day	Baudot 50/425	(EW)
4590	M01	1-9	1810	Mon	420 (R4) 173 173 30 30 = = = = 09504 19167 29273 ... 37583 05702 36121 = = = = 173 173 30 30 000	CW	(Danix)
4454	M01	1-9	1915	Mon	771 (R4) 231 231 30 30 = = = = 06657 48674 21395 ... 82313 37301 73802 = = = = 231 231 30 30 000	CW	(Danix)
5475	M01	4-9	1800	Thu	463 577 30 = = 84765 24688 33780 40870 55147 ... 53640 47145 54053 37619 (rpt as 37169) 11129 = = 577 30 000	MCW	(MPJ)
6260	M01	6-9	1500	Sat	463 9#5 30 = 21253	CW	(HFD)
5475	M01	9-9	1800	Tue	463 225/30 54622	CW	(HFD)
5020	M01	11-9	2000	Thu	463	CW	(HFD)
4455	M01	29-9	1816	Mon	i.p. 771 173 30 09504 19167 29273 67806 97278 ... 06385 96841 37583 05702 36121 = = 173 30 000	CW	(MPJ)
5475	M01	30-9	1800	Tue	IP: ... 13870 06723 93626 11434 78652 ... 41199 23405 99917 23435 27572 = = 784 30 000	CW	(MPJ)
3535	M01b	1-9	1810	Mon	420 173 30 = 09504 //4590	CW	(HFD)
4590	M01b	1-9	1810	Mon	420 173 30 = 09504 //3535	CW	(HFD)
4455	M01b	1-9	1915	Mon	771 231 30 = 06657 //3645	CW	(HFD)
3645	M01b	1-9	1915	Mon	771 231 30 = 06657 //4455	CW	(HFD)
4605	M01b	4-9	1932	Thu	477 173 30 = = 09504 19167 29273 67806 97278 ... 06385 96841 37583 05702 36121 = = 173 30 000	CW	(MPJ)
4570	M01b	4-9	1940	Thu	477 173 30 = = 09504 19167 29273 67806 97278 ... 06385 96841 37583 05702 36121 = = 173 30 000	CW	(MPJ)
3535	M01b	8-9	1810		420 too noisy to copy	CW	(AB)
3625	M01b	10-9	1902	Wed	153 173 30 = 09504 //4941	CW	(HFD)
4941	M01b	10-9	1902	Wed	153 173 30 = 09504 //3625	CW	(HFD)
4605	M01b	18-9	1832	Thu	201 173 30 = 09594 //3510	CW	(HFD)
3510	M01b	18-9	1832	Thu	201 173 30 = 09594 //4605	CW	(HFD)
4570	M01b	18-9	1942	Thu	477 173 30 = 09504 //3715	CW	(HFD)
3715	M01b	18-9	1942	Thu	477 173 30 = 09504 //4570	CW	(HFD)
3520	M01b	19-9	2010	Fri	582 173 30 = 09504 //4585	CW	(HFD)
4585	M01b	19-9	2010	Fri	582 173 30 = 09504 //3520	CW	(HFD)
4590	M01b	29-9	1915	Mon	402 173 30 = = 09504 19167 29373 67806 97278 ... 06385 96841 37583 05702 36121 = = 173 30 000	CW	(MPJ)
3535	M01b	29-9	1915	Mon	402 173 30 = = 09504 19167 29373 67806 97278 ... 06385 96841 37583 05702 36121 = = 173 30 000	CW	(MPJ)
9150	M03	4-9	1320	Thu	437/00	CW	(MPJ)
13911	M03	5-9	1420	Fri	879/00	CW	(HFD)
13911	M03	5-9	1420	Fri	879/00	CW	(MPJ)

Freq.	Enigma	Date	UTC	Day	Remarks	Mode	Ctrb
6977	M03	6-9	1535	Sat	798/00	CW	(HFD)
9150	M03	7-9	1320	Sun	437/00	CW	(HFD)
5463	M03	10-9	1320	Wed	546/38 = 28473	CW	(HFD)
9150	M03	11-9	1320	Thu	437/00 = = 000	CW	(AB)
9150	M03	14-9	1320	Sun	437/00 = = 000	CW	(AB)
13911	M03	14-9	1423	Sun	876/38 = = too weak to copy	CW	(AB)
5463	M03	29-9	1320	Mon	543/00 = = 000	CW	(MPJ)
6977	M03	30-9	1535	Tue	798/00	CW	(MPJ)
7554	M08a	1-9	2009	Mon	Cuban cut nbrs	CW	(DSch)
8009	M08a	1-9	2302	Mon	Cuban cut nbrs	CW	(DSch)
8096	M08a	2-9	1400	Tue	Cuban cut nbrs. GAUUA TUGRN ITITA	CW	(DSch)
7554	M08a	2-9	1753	Tue	Tuning but no message	CW	(DSch)
7554	M08a	3-9	2000	Wed	Cuban cut nbrs. NIIUA UGUIA WNGTN	CW	(DSch)
7554	M08a	4-9	2007	Thu	Cuban cut nbrs	CW	(DSch)
8135	M08a	4-9	2309	Thu	Cuban cut nbrs	CW	(DSch)
7554	M08a	5-9	2006	Fri	Cuban cut nbrs	CW	(DSch)
7553.6	M08a	6-9	2003	Sat	Cuban cut nbrs	CW	(DSch)
7554	M08a	7-9	1959	Sun	Cuban cut nbrs	CW	(DSch)
8135	M08a	7-9	2320	Sun	Cuban cut nbrs. Should be on 8009 kHz	CW	(DSch)
7554	M08a	9-9	2011	Tue	Cuban cut nbrs	CW	(DSch)
8135	M08a	9-9	2319	Tue	Cuban cut nbrs	CW	(DSch)
7554	M08a	12-9	2009	Fri	Cuban cut nbrs	CW	(DSch)
8135	M08a	12-9	2303	Fri	Cuban cut nbrs. Should be on 8009 kHz	CW	(DSch)
8097	M08a	13-9	1445	Sat	Cuban cut nbrs	CW	(DSch)
8095.9	M08a	15-9	1400	Mon	Cuban cut nbrs NNANA DWUWA UGIIN	CW	(DSch)
7554	M08a	15-9	2002	Mon	Cuban cut nbrs ATTDN NNURA DWIGN	CW	(DSch)
7554	M08a	16-9	2001	Tue	Cuban cut nbrs NTGWA NDNA ARWDN	CW	(DSch)
8095.9	M08a	17-9	1404	Wed	Cuban cut nbrs	CW	(DSch)
8095.9	M08a	18-9	1409	Thu	Cuban cut nbrs	CW	(DSch)
7554	M08a	18-9	2002	Thu	Cuban cut nbrs GTUDN TDIWA ARAGN	CW	(DSch)
8134.6	M08a	18-9	2301	Thu	Cuban cut nbrs	CW	(DSch)
7554	M08a	19-9	2004	Fri	Cuban cut nbrs	CW	(DSch)
8134.5	M08a	19-9	2303	Fri	Cuban cut nbrs	CW	(DSch)
8096.6	M08a	21-9	1414	Sun	Cuban cut nbrs	CW	(DSch)
7554	M08a	21-9	2037	Sun	Cuban cut nbrs	CW	(DSch)
8135	M08a	21-9	2312	Sun	Cuban cut nbrs. Should be on 8009 kHz	CW	(DSch)
7554	M08a	22-9	2007	Mon	Cuban cut nbrs	CW	(DSch)
8009	M08a	22-9	2307	Mon	Cuban cut nbrs	CW	(DSch)
8096.6	M08a	23-9	1428	Tue	Cuban cut nbrs	CW	(DSch)
7554	M08a	23-9	2000	Tue	Cuban cut nbrs. DDDIA URRAA WTTDN	CW	(DSch)
8134.5	M08a	23-9	2323	Tue	Cuban cut nbrs	CW	(DSch)
8096	M08a	24-9	1405	Wed	Cuban cut nbrs	CW	(DSch)
8096	M08a	24-9	1405	Wed	Cuban cut nbrs	CW	(DSch)
7554	M08a	24-9	2026	Wed	Cuban cut nbrs	CW	(DSch)
7554	M08a	24-9	2026	Wed	Cuban cut nbrs	CW	(DSch)
7554	M08a	25-9	2008	Thu	Cuban cut nbrs	CW	(DSch)
8009	M08a	29-9	2306	Mon	Cuban cut nbrs	CW	(DSch)
7554	M08a	30-9	2003	Tue	Cuban cut nbrs	CW	(DSch)
5792	M12	1-9	0430	Mon	796 796 796 000	CW	(Danix)
6992	M12	1-9	0450	Mon	796 796 796 000	CW	(Danix)
11435	M12	1-9	1600	Mon	938 1 7022 117 96371 07487 17913 … 22869 09578 36014 000 000	CW	(Danix)
10598	M12	1-9	1620	Mon	938 1 7022 117 96371 07487 17913 … 22869 09578 36014 000 000	CW	(Danix)
9327	M12	1-9	1640	Mon	938 1 7022 117 96371 07487 17913 … 22869 09578 36014 000 000	CW	(Danix)
8047	M12	1-9	1700	Mon	463 1 9546 146 05601 41401 61392 … 78031 06079 42141 000 000	CW	(Danix/HDF)
6802	M12	1-9	1720	Mon	463 1 9546 146 05601 41401 61392 … 78031 06079 42141 000 000	CW	(Danix/HDF)
5788	M12	1-9	1740	Mon	463 1 9546 146 05601 41401 61392 … 78031 06079 42141 000 000	CW	(Danix/HDF)
9176	M12	1-9	1800	Mon	257 1 3122 61 67457 94140 00812 … 08478 83995 85690 000 000	CW	(Danix/HDF)
7931	M12	1-9	1820	Mon	257 1 3122 61 67457 94140 00812 … 08478 83995 85690 000 000	CW	(Danix/HDF)
9327	M12	1-9	1821	Mon	124 124 124 1 1940 153 .4613 85570 14003 12222 25572	CW	(LG2)
6904	M12	1-9	1840	Mon	257 1 3122 61 67457 94140 00812 … 08478 83995 85690 000 000	CW	(Danix/HDF)
9176	M12	1-9	1900	Mon	257 1	CW	(HFD)
7931	M12	1-9	1920	Mon	257 1	CW	(HFD)

Freq.	Enigma	Date	UTC	Day	Remarks	Mode	Ctrb
6904	M12	1-9	1940	Mon	257 1	CW	(HFD)
10343	M12	2-9	1830	Tue	124 1 8554 59 56159 98885 06498 ... 48196 11315 03163 000 000	CW	(Danix)
9264	M12	2-9	1850	Tue	124 1 8554 59 56159 98885 06498 ... 48196 11315 03163 000 000	CW	(Danix)
8116	M12	2-9	1910	Tue	124 1 8554 59 56159 98885 06498 ... 48196 11315 03163 000 000	CW	(Danix)
8047	M12	3-9	1700	Wed	463 1 4057 77 67880 27253 54009 ... 48742 61577 02426 000 000	CW	(Danix)
6802	M12	3-9	1720	Wed	463 1 4057 77 67880 27253 54009 ... 48742 61577 02426 000 000	CW	(Danix)
5788	M12	3-9	1740	Wed	463 1 4057 77 67880 27253 54009 ... 48742 61577 02426 000 000	CW	(Danix)
11435	M12	3-9	1830	Wed	938 1 3706 65 63483 56754 65003 ... 25877 94106 28959 000 000	CW	(Danix)
10598	M12	3-9	1850	Wed	938 1 3706 65 63483 56754 65003 ... 25877 94106 28959 000 000	CW	(Danix)
9327	M12	3-9	1910	Wed	938 1 3706 65 63483 56754 65003 ... 25877 94106 28959 000 000	CW	(Danix)
6793	M12	3-9	2100	Wed	785 785 785 000	CW	(AB/Danix/HFD)
11469	M12	3-9	2110	Wed	441 441 441 000	CW	(AB/Danix)
5893	M12	3-9	2120	Wed	785 785 785 000	CW	(AB/HFD/Danix)
10469	M12	3-9	2130	Wed	441 441 441 000	CW	(AB/Danix)
13873	M12	4-9	1310	Thu	834 1 6657 155 93233 04114 36459 7... 65176 12050 01755 000 000	CW	(Danix)
13373	M12	4-9	1330	Thu	834 1 6657 155 93233 04114 36459 7... 65176 12050 01755 000 000	CW	(Danix)
11473	M12	4-9	1350	Thu	834 1 6657 155 93233 04114 36459 7... 65176 12050 01755 000 000	CW	(Danix/MPJ)
13386	M12	4-9	1600	Thu	725 1 9336 109 76745 82352 59528 ... 60342 14570 69079 000 000	CW	(Danix)
12189	M12	4-9	1620	Thu	725 1 9336 109 76745 82352 59528 ... 60342 14570 69079 000 000	CW	(Danix)
11491	M12	4-9	1640	Thu	725 1 9336 109 76745 82352 59528 ... 60342 14570 69079 000 000	CW	(Danix)
13873	M12	6-9	1310	Sat	834 1 6657 155 93233 04114 36459 7... 65176 12050 01755 000 000	CW	(Danix/MPJ)
13373	M12	6-9	1330	Sat	834 1 6657 155 93233 04114 36459 7... 65176 12050 01755 000 000	CW	(Danix/MPJ)
11473	M12	6-9	1350	Sat	834 1 6657 155 93233 04114 36459 7... 65176 12050 01755 000 000	CW	(Danix/MPJ)
5792	M12	8-9	0430	Mon	796 796 796 000	CW	(Danix)
6992	M12	8-9	0450	Mon	796 796 796 000	CW	(Danix)
11435	M12	8-9	1600	Mon	938 1 8860 109 32643 54861 24659 ... 42537 97619 93676 000 000	CW	(Danix)
10598	M12	8-9	1620	Mon	938 1 8860 109 32643 54861 24659 ... 42537 97619 93676 000 000	CW	(Danix)
9327	M12	8-9	1640	Mon	938 1 8860 109 32643 54861 24659 ... 42537 97619 93676 000 000	CW	(Danix)
8047	M12	8-9	1700		463 463 463 1 4528 155 4528 155 99268 49017 72234 ... 32882 15528 71365 000 000	CW	(AB)
6802	M12	8-9	1720		463 463 463 1 4528 155 4528 155 99268 49017 72234 ... 32882 15528 71365 000 000	CW	(AB)
5788	M12	8-9	1740		463 463 463 1 4528 155 4528 155 99268 49017 72234 ... 32882 15528 71365 000 000	CW	(AB)
9176	M12	8-9	1800		257 257 257 1 7114 58 7114 58 10376 15452 97950 ... 98598 32085 41179 000 000	CW	(AB)
7931	M12	8-9	1820		257 257 257 1 7114 58 7114 58 10376 15452 97950 ... 98598 32085 41179 000 000	CW	(AB)
6904	M12	8-9	1840		257 257 257 1 7114 58 7114 58 10376 15452 97950 ... 98598 32085 41179 000 000	CW	(AB)
9176	M12	8-9	1900		257 257 1 9856 102 9856 102 67110 94796 42170 ... 81377 39983 49582 000 000	CW	(AB)
7931	M12	8-9	1920		257 257 1 9856 102 9856 102 67110 94796 42170 ... 81377 39983 49582 000 000	CW	(AB)
6904	M12	8-9	1940		257 257 1 9856 102 9856 102 67110 94796 42170 ... 81377 39983 49582 000 000	CW	(AB)
8047	M12	10-9	1700	Wed	463 463 463 1 3426 100 3426 100 03733 92814 24963 ... 50430 79287 99331 000 000	CW	(AB)
6802	M12	10-9	1720	Wed	463 463 463 1 3426 100 3426 100 03733 92814 24963 ... 50430 79287 99331 000 000	CW	(AB)
5788	M12	10-9	1740	Wed	463 463 463 1 3426 100 3426 100 03733 92814 24963 ... 50430 79287 99331 000 000	CW	(AB)
6784	M12	11-9	0630	Thu	761 761 761 000	CW	(AB/HFD)
7684	M12	11-9	0650	Thu	761 761 761 000	CW	(AB/HFD)
13373	M12	11-9	1330	Thu	834 834 834 000	CW	(AB)
13386	M12	11-9	1600	Thu	725 1	CW	(HFD)
12189	M12	11-9	1620	Thu	725 1	CW	(HFD)
11491	M12	11-9	1640	Thu	725 1	CW	(HFD)
9176	M12	11-9	1700	Thu	257 1	CW	(HFD)
7931	M12	11-9	1720	Thu	257 1	CW	(HFD)
6904	M12	11-9	1740	Thu	257 1	CW	(HFD)
8116	M12	11-9	1740	Thu	124 124 124 1 8185 143 8185 143	CW	(AB)
8116	M12	11-9	1840	Thu	124 124 124 1 7920 119 7920 119 32670 15007 48595 ... 80946 11892 89093 000 000	CW	(AB)

Freq.	Enigma	Date	UTC	Day	Remarks	Mode	Ctrb
11469	M12	13-9	2110	Sat	441 0	CW	(HFD)
11424	M12	13-9	2130	Sat	441 441 441 000	CW	(AAI)
10469	M12	13-9	2130	Sat	441 0	CW	(HFD)
5792	M12	15-9	0430	Mon	796 796 796 000	CW	(Danix)
6992	M12	15-9	0450	Mon	796 796 796 000	CW	(Danix)
9465	M12	15-9	0746	Mon	801 …	CW	(LG2)
11435	M12	15-9	1600	Mon	938 1 8605 116 75262 22821 66459 … 939?9 29216 48172 000 000	CW	(Danix)
10598	M12	15-9	1620	Mon	938 1 8605 116 75262 22821 66459 … 939?9 29216 48172 000 000	CW	(Danix)
9327	M12	15-9	1640	Mon	938 1 8605 116 75262 22821 66459 … 939?9 29216 48172 000 000	CW	(Danix)
9327	M12	15-9	1646	Mon	i.p. 16970 92397 62413 75277 …	CW	(LG2)
8047	M12	15-9	1700	Mon	463 1 8636 142 56034 39262 55108 … 26074 99845 50117 000 000	CW	(Danix)
6802	M12	15-9	1720	Mon	463 1 8636 142 56034 39262 55108 … 26074 99845 50117 000 000	CW	(Danix)
5788	M12	15-9	1740	Mon	463 1 8636 142 56034 39262 55108 … 26074 99845 50117 000 000	CW	(Danix)
9176	M12	15-9	1800	Mon	257 1 4729 54 67182 20456 67673 … 95247 45931 22858 000 000	CW	(Danix)
9176	M12	15-9	1800	Mon	257 257 257 1 4729 54 4729 54 5FGs	CW	(LG2)
7931	M12	15-9	1820	Mon	257 1 4729 54 67182 20456 67673 … 95247 45931 22858 000 000	CW	(Danix)
6904	M12	15-9	1840	Mon	257 1 4729 54 67182 20456 67673 … 95247 45931 22858 000 000	CW	(Danix)
9176	M12	15-9	1900	Mon	257 1 731 83 39634 40490 55975 … 14290 85481 54777 000 000	CW	(Danix)
7931	M12	15-9	1920	Mon	257 1 731 83 39634 40490 55975 … 14290 85481 54777 000 000	CW	(Danix)
6904	M12	15-9	1940	Mon	257 1 731 83 39634 40490 55975 … 14290 85481 54777 000 000	CW	(Danix)
10343	M12	16-9	1830	Tue	124 1	CW	(HFD)
9264	M12	16-9	1850	Tue	124 1	CW	(HFD)
8116	M12	16-9	1910	Tue	124 1	CW	(HFD)
8047	M12	17-9	1700	Wed	463 1 4515 84 97469 74625 02770 … 23301 44747 99724 000 000	CW	(Danix)
6802	M12	17-9	1720	Wed	463 1 4515 84 97469 74625 02770 … 23301 44747 99724 000 000	CW	(Danix)
5788	M12	17-9	1740	Wed	463 1 4515 84 97469 74625 02770 … 23301 44747 99724 000 000	CW	(Danix)
11435	M12	17-9	1830	Wed	938 1 3674 67 55787 80480 42607 … 73077 52126 21013 000 000	CW	(Danix)
10598	M12	17-9	1850	Wed	938 1 3674 67 55787 80480 42607 … 73077 52126 21013 000 000	CW	(Danix)
9327	M12	17-9	1910	Wed	938 1 3674 67 55787 80480 42607 … 73077 52126 21013 000 000	CW	(Danix)
6793	M12	17-9	2100	Wed	785 1 491 85 56076 11656 32177 … 05089 98428 16875 000 000	CW	(Danix)
11469	M12	17-9	2110	Wed	441 1 4730 155 49177 75119 45810 … 78250 11030 90536 000 000	CW	(Danix)
5893	M12	17-9	2120	Wed	785 1 491 85 56076 11656 32177 … 05089 98428 16875 000 000	CW	(Danix)
10469	M12	17-9	2130	Wed	441 1 4730 155 49177 75119 45810 … 78250 11030 90536 000 000	CW	(Danix)
4593	M12	17-9	2140	Wed	785 1 491 85 56076 11656 32177 … 05089 98428 16875 000 000	CW	(Danix)
9169	M12	17-9	2150	Wed	441 1 4730 155 49177 75119 45810 … 78250 11030 90536 000 000	CW	(Danix)
6784	M12	18-9	0630	Thu	761 761 761 000	CW	(Danix)
7684	M12	18-9	0650	Thu	761 761 761 000	CW	(Danix)
13873	M12	18-9	1310	Thu	834 1 2463 107 07018 87343 53178 … 01121 70070 21356 000 000	CW	(Danix)
13373	M12	18-9	1330	Thu	834 1 2463 107 07018 87343 53178 … 01121 70070 21356 000 000	CW	(Danix)
11473	M12	18-9	1350	Thu	834 1 2463 107 07018 87343 53178 … 01121 70070 21356 000 000	CW	(Danix)
13386	M12	18-9	1600	Thu	725 1 2558 110 27915 75231 96661 … 40060 61477 70811 000 000	CW	(Danix)
12189	M12	18-9	1620	Thu	725 1 2558 110 27915 75231 96661 … 40060 61477 70811 000 000	CW	(Danix)
11491	M12	18-9	1640	Thu	725 1 2558 110 27915 75231 96661 … 40060 61477 70811 000 000	CW	(Danix)
9176	M12	18-9	1700	Thu	257 1 7381 58 94219 11306 39938 … 93048 04547 20719 000 000	CW	(Danix)
7931	M12	18-9	1720	Thu	257 1 7381 58 94219 11306 39938 … 93048 04547 20719 000 000	CW	(Danix)
6904	M12	18-9	1740	Thu	257 1 7381 58 94219 11306 39938 … 93048 04547 20719 000 000	CW	(Danix)
8116	M12	18-9	1740	Thu	124 124 124 1 2192 153 2192 153 t1773 etc.	CW	(AB)
8116	M12	18-9	1840	Thu	124 124 124 1 731 83 39634 40490 55975 … 14290 85481 54777 000 000	CW	(Danix)
8176	M12	20-9	0500	Sat	134 1 491 85 56076 11656 32177 … 05089 98428 16875 000 000	CW	(Danix)
9376	M12	20-9	0520	Sat	134 1 491 85 56076 11656 32177 … 05089 98428 16875 000 000	CW	(Danix)
10476	M12	20-9	0540	Sat	134 1 491 85 56076 11656 32177 … 05089 98428 16875 000 000	CW	(Danix)
13873	M12	20-9	1310	Sat	834 1 2463 107 07018 87343 53178 … 01121 70070 21356 000 000	CW	(Danix)
13373	M12	20-9	1330	Sat	834 1 2463 107 07018 87343 53178 … 01121 70070 21356 000 000	CW	(Danix)
11473	M12	20-9	1350	Sat	834 1 2463 107 07018 87343 53178 … 01121 70070 21356 000 000	CW	(Danix)
11469	M12	20-9	2110	Sat	441 1 4730 155 49177 75119 45810 … 78250 11030 90536 000 000	CW	(Danix)
10469	M12	20-9	2130	Sat	441 1 4730 155 49177 75119 45810 … 78250 11030 90536 000 000	CW	(Danix)
9169	M12	20-9	2150	Sat	441 1 4730 155 49177 75119 45810 … 78250 11030 90536 000 000	CW	(Danix)
5792	M12	22-9	0430	Mon	796 0	CW	(HFD)
6992	M12	22-9	0450	Mon	796 0	CW	(HFD)
8047	M12	24-9	1700	Wed	463 1 1995 73 18666 89635 55538 … 09761 82703 58143 000 000	CW	(Danix)
6802	M12	24-9	1720	Wed	463 1 1995 73 18666 89635 55538 … 09761 82703 58143 000 000	CW	(Danix)
5788	M12	24-9	1740	Wed	463 1 1995 73 18666 89635 55538 … 09761 82703 58143 000 000	CW	(Danix)

Freq.	Enigma	Date	UTC	Day	Remarks	Mode	Ctrb
11435	M12	24-9	1830	Wed	938 1	CW	(HFD)
11435	M12	24-9	1830	Wed	938 1 8939 62 28776 65356 61179 ... 92959 05962 53836 000 000	CW	(Danix)
10598	M12	24-9	1850	Wed	938 1	CW	(HFD)
10598	M12	24-9	1850	Wed	938 1 8939 62 28776 65356 61179 ... 92959 05962 53836 000 000	CW	(Danix)
9327	M12	24-9	1910	Wed	938 1	CW	(HFD)
9327	M12	24-9	1910	Wed	938 1 8939 62 28776 65356 61179 ... 92959 05962 53836 000 000	CW	(Danix)
6793	M12	24-9	2100	Wed	785 785 785 000	CW	(Danix)
11469	M12	24-9	2110	Wed	441 441 441 000	CW	(Danix)
5893	M12	24-9	2120	Wed	785 785 785 000	CW	(Danix)
10469	M12	24-9	2130	Wed	441 441 441 000	CW	(Danix)
6784	M12	25-9	0630	Thu	761 761 761 000	CW	(Danix)
7684	M12	25-9	0650	Thu	761 761 761 000	CW	(Danix)
13873	M12	25-9	1310	Thu	834 834 834 000	CW	(Danix)
13873	M12	25-9	1310	Thu	834 0	CW	(HFD)
13373	M12	25-9	1330	Thu	834 0	CW	(HFD)
13373	M12	25-9	1330	Thu	834 834 834 000	CW	(Danix)
10343	M12	25-9	1800	Thu	124 1 3735 119 22237 62755 97892 ... 81735 39849 13285 000 000	CW	(Danix)
9264	M12	25-9	1820	Thu	124 1 3735 119 22237 62755 97892 ... 81735 39849 13285 000 000	CW	(Danix)
8116	M12	25-9	1840	Thu	124 1 3735 119 22237 62755 97892 ... 81735 39849 13285 000 000	CW	(Danix)
8176	M12	27-9	0500	Sat	134 134 134 000	CW	(Danix)
9376	M12	27-9	0520	Sat	134 134 134 000	CW	(Danix)
13873	M12	27-9	1310	Sat	834 834 834 000	CW	(AB)
13873	M12	27-9	1310	Sat	834 834 834 000	CW	(Danix)
13373	M12	27-9	1330	Sat	834 834 834 000	CW	(Danix)
11469	M12	27-9	2110	Sat	441 441 441 000	CW	(Danix)
10469	M12	27-9	2130	Sat	441 441 441 000	CW	(Danix)
11435	M12	29-9	1600	Mon	938 1 6879 113 60909 17774 84740 ... 17077 88201 27847 000 000	CW	(Danix)
10598	M12	29-9	1620	Mon	938 1 6879 113 60909 17774 84740 ... 17077 88201 27847 000 000	CW	(Danix)
9327	M12	29-9	1640	Mon	938 1 6879 113 60909 17774 84740 ... 17077 88201 27847 000 000	CW	(Danix)
8047	M12	29-9	1700	Mon	463 1 8515 145 88597 17662 18434 ... 95754 87168 00064 000 000	CW	(Danix)
6802	M12	29-9	1720	Mon	463 1 8515 145 88597 17662 18434 ... 95754 87168 00064 000 000	CW	(Danix)
5788	M12	29-9	1740	Mon	463 1 8515 145 88597 17662 18434 ... 95754 87168 00064 000 000	CW	(Danix)
9176	M12	29-9	1800	Mon	257 1 8327 59 11124 75991 29758 ... 34861 38649 67005 000 000	CW	(Danix)
7931	M12	29-9	1820	Mon	257 1 8327 59 11124 75991 29758 ... 34861 38649 67005 000 000	CW	(Danix)
6904	M12	29-9	1840	Mon	257 1 8327 59 11124 75991 29758 ... 34861 38649 67005 000 000	CW	(Danix)
9176	M12	29-9	1900	Mon	257 1 8327 59 11124 75991 29758 ... 34861 38649 67005 000 000	CW	(Danix)
7931	M12	29-9	1920	Mon	257 1 8327 59 11124 75991 29758 ... 34861 38649 67005 000 000	CW	(Danix)
6904	M12	29-9	1940	Mon	257 1 8327 59 11124 75991 29758 ... 34861 38649 67005 000 000	CW	(Danix)
10343	M12	30-9	1830	Tue	124 1 4355 58 63386 05656 21542 ... 98311 82429 29182 000 000	CW	(Danix)
9264	M12	30-9	1850	Tue	124 1 4355 58 63386 05656 21542 ... 98311 82429 29182 000 000	CW	(Danix)
8116	M12	30-9	1910	Tue	124 1 4355 58 63386 05656 21542 ... 98311 82429 29182 000 000	CW	(Danix)
10423	M14	2-9	1230	Tue	058 058 058 ...	CW	(AAI)
5944	M14	5-9	1700	Fri	382 382 382 00000	MCW	(Danix)
5477	M14	5-9	1800	Fri	382 382 382 00000	MCW	(Danix)
5945	M14	9-9	1820	Tue	346	CW	(HFD)
5464	M14	10-9	1920	Wed	537 631/020 51059	CW	(HFD)
5464	M14	10-9	1920	Wed	537 (R) 621 020 51059 23438 76167 ... 84274 96823 17105 385 020 0000	CW	(AB)
8463	M14	18-9	0750	Thu	801	CW	(BCI)
10423	M14	18-9	1233	Thu	i.p. 00307 33014 76181 38701 ... 27235 46159 65392 = = 461 59 00000	CW	(Avare)
5944	M14	19-9	1700	Fri	382 382 382 00000	MCW	(Danix)
5477	M14	19-9	1800	Fri	382 382 382 00000	MCW	(Danix)
18041	M14	23-9	0500	Tue	952	CW	(Avare/Danix)
10423	M14	25-9	1240	Thu	i.p.	CW	(AAI)
4905	M21	19-9	1825	Fri	=992224??8?????? =992225??8??????	CW	(JPL-Sib)
4923	M21	26-9	1814	Fri	Russian Air Defense =992214??0?????	CW	(JPL-J)
4331	M22	1-9	2000	Mon	VVV DE 4XZ 4XZ	CW	(LG2)
4331	M22	2-9	2232	Tue	VVV DE 4XZ 4XZ =	CW	(LG2)
15306	M22	5-9	1834	Fri	Messages and occasional "VVV DE 4XZ 4XZ = =	CW	(Danix)
12900	M22	11-9	2028	Thu	4XZ ISR Ny Haifa, 5LG	CW	(Brit)
13892	M22	11-9	2037	Thu	4XZ ISR Ny Haifa, idle	CW	(Brit)
12924	M22	13-9	0500	Sat	VVV DE 4XZ 4XZ = =	CW	(S1)
15306	M22	14-9	0440	Sun	4XZ Haifa ISR	CW	(RHA)

Freq.	Enigma	Date	UTC	Day	Remarks	Mode	Ctrb
15306	M22	16-9	0016	Tue	4XZ Israeli Navy, Haifa "BL2H BL2H BL2H QSL NR51 BT BT AR AR VVV DE 4XZ 4XZ 4XZ" a	CW	(MCO)
8726	M22	21-9	1605	Sun	VVV DE 4XZ 4XZ	CW	(AAI)
8216	M22	21-9	2125	Sun	VVV DE 4XZ 4XZ	CW	(AAI)
6607	M22	29-9	2051	Mon	VVV DE 4XZ 4XZ = =	CW	(AB)
8020	M32	1-9	1432	Mon	K4B3 K4B3 AR	CW	(JPL-FNL)
14576	M32	2-9	0755	Tue	Russian Mil i.p. ... 5WVN QSA3 QSA? K. 5WVN R K. 6X5C 6X5C 6X5C 5WVN 5WVN K. 5WVN QSA3 QSA? K.	CW	(AB)
11468	M32	3-9	2103	Wed	Russian Mil. i.p. 64298 24760 26923 12287 49279 68030 15473 ... 45064 78122 03114 K	CW	(AB)
7859	M32	9-9	1159	Tue	WF6M DE BPDS ZZV ZFJ ZZS ZZY ZZN ZZU QYT 6 K. BPDS QRJ ? QYT 6 K	CW	(JPL-FNL)
5096	M32	9-9	1214	Tue	XX NAD\UJ T29S BT OQO XX NAD\UJ OQOXX NAD\UJ OQO XX NAD\UJ \UADP	CW	(JPL-FNL)
3539	M32	12-9	1841	Fri	NL9I NL9I NL9I DE KAHQ KAHQ K. KAHQ R K. 4B2E 4B2E 4B2E DE KAHQ KAHQ K	CW	(JPL-Sib)
9253	M32	15-9	0906	Mon	MC5S DE WB4N QSA ? FOR QRJ ? K	CW	(JPL-Sib)
7977	M32	15-9	1426	Mon	XXX XXX WEGI WEGI 72630 BESOWSKIJ 8079 5948 K	CW	(JPL-Sib)
5419	M32	15-9	2133	Mon	PQBS DE WEW4 K. 2BWP DE WEW4 K. BW4M DE WEW4 K. BW5M DE WEW4 K. FSN2 DE WEW4 K	CW	(JPL-Sib)
8206	M32	23-9	0047	Tue	VV KDFJ KDFJ DE TOMN K	CW	(JPL-Sib)
10683	M32	25-9	0904	Thu	XXX XXX WEGI WEGI 24360 KOSTOEDA 1484 8782 //12688 kHz	CW	(JU)
12688	M32	25-9	0904	Thu	XXX XXX WEGI WEGI 24360 KOSTOEDA 1484 8782 //10683 kHz	CW	(JU)
12315	M32	25-9	0906	Thu	XXX XXX 1QRF 1QRF 48199 KOSTOEDA 1484 8782	CW	(JU)
12832	M32	25-9	0908	Thu	XXX XXX WEGI WEGI 88747 24360 KOSTOEDA 1484 8782	CW	(JU)
14376	M32	28-9	1113	Sun	TC3P DE L3ET K L3ET QTC K	CW	(NH2)
14556	M32a	4-9	1222	Thu	Russian navy i.p. 73458 64175 99291 57577 ... 66399 64685 59232 78769 04038 = RPT AL AR RIW K	CW	(AB)
14556	M32a	4-9	1228	Thu	Russian navy. RIW RPT 67006 11218 54929 67998 80319 66399 64685 59232 78769 04038 = RPT AL AR RIW K	CW	(AB)
14556	M32a	4-9	1238	Thu	Russian navy. RMDZ DE RIW K. RIW QRU QRU?	CW	(AB)
4258	M32a	12-9	1857	Fri	Russian Navy i.p. ... 4258 4258 K. RGZ57 DE RJS ZBR K	CW	(JPL-Sib)
14556	M32a	20-9	0900	Sat	RCRE DE RIW K. RIW QRR3 SK K. RIW QSU1 QWH 13086 QSX 12260 K	CW	(JU)
6989	M32b	12-9	2102	Fri	Russian Naval Air: RMW2 DE RAL2 K. QSA2 ZNN SK. RHQ2 DE RAL2 K.	CW	(JPL-Sib)
6989	M32b	12-9	2104	Fri	Russian Naval Air: RHQ2 DE RAL2 QSA NO ZNN SK. RBL66 DE RAL2 QSA 4 ZNN	CW	(JPL-Sib)
8162	M32c	2-9	1100	Tue	W-markers: Tu-95MS Bear H net	CW	(Tom)
8162	M32c	2-9	1420	Tue	W-marker	CW	(MPJ)
8162	M32c	3-9	0940	Wed	W-marker	CW	(Tom)
8162	M32c	3-9	1840	Wed	W-marker	CW	(Tom)
8162	M32c	3-9	1900	Wed	W-marker	CW	(Tom)
8162	M32c	5-9	0600	Fri	W-markers: Tu-95MS Bear H net	CW	(Tom)
8162	M32c	9-9	1800	Tue	W-marker	CW	(AB)
8162	M32c	14-9	1800	Sun	W-markers: Tu-95MS Bear H net	CW	(Tom)
8162	M32c	15-9	0600	Mon	W-markers: Tu-95MS Bear H net	CW	(Tom)
8162	M32c	16-9	0600	Tue	W-markers: Tu-95MS Bear H net	CW	(Tom)
4521	M32c	25-9	2040	Thu	REA4: Russian Air Force Moscow, i.p 14031 = REA4	CW	(AAI)
19145	M42	1-9	0844	Mon	Russian diplo	CROWD-36	(LG2)
9197	M42	2-9	2100	Tue	Russian diplo/intel. Msg on link 45057	FSK 200/1000	(LG2)
6795	M42	4-9	1731	Thu	Russian Gov/Intel. Mark after every 50th group. CW ops-chat after RTTY: OK OK AS AS R K K	Baudot 50/500 + CW	(BCI)
7813	M42	5-9	0649	Fri	Russian Gov/Intel. Mark after every 50th group.	Baudot 50/500	(BCI)
17441	M42	6-9	1200	Sat	Russian diplo/intel 7 31	FSK 200/500	(HFD)
15845	M42	6-9	1210	Sat	Russian diplo/intel 7 31	FSK 200/500	(HFD)
13506	M42	6-9	1220	Sat	Russian diplo/intel 6 41!	FSK 200/500	(HFD)
9239	M42	11-9	1900	Thu	Russian diplo/intel 6 55	FSK 200/500	(HFD)
6903	M42	11-9	1910	Thu	Russian diplo/intel 6 55	FSK 200/500	(HFD)
5087	M42	11-9	1920	Thu	Russian diplo/intel 6 55	FSK 200/500	(HFD)
16320	M42	12-9	0150	Fri	Russian diplo/intel. Messages on links 13366, 41018, 57402, 57726, 57722	FSK 200/1000	(Dan)
14880	M42	12-9	0230	Fri	Russian diplo/intel. Messages	FSK 200/1000	(Dan)
16242	M42	14-9	0802	Sun	Russian diplo	CROWD-36	(LG2)
9116	M42	15-9	1617	Mon	Russian diplo	CROWD-36	(LG2)
14631	M42	17-9	0843	Wed	Russian diplo	CROWD-36	(PUK)
6853	M51	8-9	2058		FAV22	CW	(LG2)

Freq.	Enigma	Date	UTC	Day	Remarks	Mode	Ctrb
6822.5	M51	14-9	0843	Sun	FAV22: SAMEDI/DIMANCHE LECON N 2/3 VITESSE 1200 CLAIR BT UNE FORME OLYMPIQUE....	CW	(LG2)
9213	M51	14-9	1426	Sun	nr 12 s 09 16:26:35 2014 = pwzsk sigkk najzb ... zratd tnvus rgxju =	CW	(AB)
9191	M51	14-9	1951	Sun	CSTEI Favieres/Vernon, NR 66 S 09 21:51:50 2014 = PAPLY BRJV	CW	(AAI)
9190	M51	15-9	1423	Mon	= NR 12 S 09 16:26:35 2014 = PWZSK SIGKK NAJZB ZCWOW FEOXI OYDFI BOQVU ...	CW	(LG2)
7529	M51	19-9	1743	Fri	FAV22 i.p. ALYCU DCYXN YHDGI VVYLC BCUBG YNXKF WWZJY ...	CW	(LG2)
9083	M51	21-9	1315	Sun	FAV22 i.p. UXAXA SIGTS UMZHQ UAYOD FPGVU ...	CW	(AAI)
8327	M51	24-9	1951	Wed	French Mil 5LGs = NR 17 S 24 21:51:07 2014 =	CW	(Faux)
3881	M51	24-9	2045	Wed	French Mil 5LGs = NR 26 S 24 22:45:04 2014 =	CW	(Faux)
6825	M51a	1-9	0909	Mon	FAV22 i.p. ... d'unefemme toujours passionnee par l'aviation. ar cq de fav22 va	CW	(AB)
6825	M51a	4-9	0840	Thu	FAV22 i.p. having problems with the transmitter.	CW	(AB)
7602	M89	30-8	1816	Sat	V DKG6 DKG6 DKG6 DE 3A7D 3A7D	CW	(PPA)
7582	M89	1-9	0212	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
6666	M89	1-9	0215	Mon	i.p. 1754 = MPT7/RY8 AR. FFFF NR 6078/EX 1754 BT BT MPT7/RY8 AR (see N&O 204)	CW	(JPL)
6840	M89	1-9	0820	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //10640	CW	(JPL)
10640	M89	1-9	0820	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
8072	M89	1-9	0851	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
8060	M89	1-9	0856	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //6793	CW	(JPL)
6793	M89	1-9	0856	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //8060	CW	(JPL)
8110	M89	1-9	0858	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
5588	M89	1-9	0941	Mon	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
8060	M89	1-9	1055	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	1-9	1055	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //8060	CW	(JPL)
8072	M89	1-9	1059	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
6840	M89	1-9	1120	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //10640	CW	(JPL)
10640	M89	1-9	1120	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
3330	M89	1-9	1125	Mon	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
5657	M89	1-9	1126	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3820	M89	1-9	1126	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
4532	M89	1-9	1329	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //8060	CW	(JPL)
8060	M89	1-9	1329	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
5500	M89	1-9	1331	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
7602	M89	1-9	1333	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
3330	M89	1-9	1335	Mon	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3820	M89	1-9	1336	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	1-9	1336	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3330	M89	1-9	1713	Mon	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3642	M89	1-9	1714	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	1-9	1714	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3777	M89	1-9	1716	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	1-9	1716	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3820	M89	1-9	1717	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	1-9	1717	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
6840	M89	1-9	1720	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K	CW	(JPL)
5500	M89	1-9	1812	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
3642	M89	1-9	1818	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	1-9	1818	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
4860	M89	1-9	1820	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
6840	M89	1-9	1820	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //4860	CW	(JPL)
10421	M89	2-9	0201	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
8110	M89	2-9	0203	Tue	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
10640	M89	2-9	0920	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
6840	M89	2-9	0920	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //10640	CW	(JPL)
8072	M89	2-9	0955	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //10421	CW	(JPL)
10421	M89	2-9	0955	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //8072	CW	(JPL)
8110	M89	2-9	0957	Tue	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
8060	M89	2-9	0959	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //6793	CW	(JPL)
6793	M89	2-9	0959	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //8060	CW	(JPL)
5588	M89	2-9	1000	Tue	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)

Freq.	Enigma	Date	UTC	Day	Remarks	Mode	Ctrb
3330	M89	2-9	1733	Tue	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
7602	M89	2-9	1735	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3642	M89	2-9	1735	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
4532	M89	2-9	1737	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3777	M89	2-9	1737	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
5657	M89	2-9	1738	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3820	M89	2-9	1738	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5588	M89	2-9	2310	Tue	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
6793	M89	2-9	2313	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //8060	CW	(JPL)
8060	M89	2-9	2313	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //6793	CW	(JPL)
8072	M89	2-9	2314	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
6840	M89	2-9	2320	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //10640	CW	(JPL)
10640	M89	2-9	2320	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
3330	M89	3-9	2041	Wed	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
7602	M89	3-9	2043	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3642	M89	3-9	2043	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
3777	M89	3-9	2045	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	3-9	2045	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
5657	M89	3-9	2048	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3820	M89	3-9	2048	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
8072	M89	4-9	0039	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd) //10421	CW	(JPL)
10421	M89	4-9	0039	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd) //8072	CW	(JPL)
10421	M89	4-9	0225	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
8888	M89	4-9	0230	Thu	i.p. VV 05 05	CW	(JPL)
8072	M89	4-9	0900	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd) //10421	CW	(JPL)
10421	M89	4-9	0900	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd) //8072	CW	(JPL)
8060	M89	4-9	0903	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd) //6793	CW	(JPL)
6793	M89	4-9	0903	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd) //8060	CW	(JPL)
3330	M89	4-9	1529	Thu	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3642	M89	4-9	1550	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	4-9	1550	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
4532	M89	4-9	1551	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd) //7602	CW	(JPL)
3777	M89	4-9	1551	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
3820	M89	4-9	1553	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	4-9	1553	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
8072	M89	8-9	1154	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
4532	M89	8-9	1156	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //6793	CW	(JPL)
6793	M89	8-9	1156	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
5500	M89	8-9	1158	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
3330	M89	8-9	1200	Mon	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
10180	M89	8-9	1218	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
10640	M89	8-9	1220	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
6840	M89	8-9	1220	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //10640	CW	(JPL)
3330	M89	8-9	1316	Mon	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
7602	M89	8-9	1317	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
4532	M89	8-9	1318	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3777	M89	8-9	1318	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
3820	M89	8-9	1319	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	8-9	1319	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
4860	M89	8-9	1320	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
6840	M89	8-9	1320	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //4860	CW	(JPL)
7602	M89	8-9	2233	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
5657	M89	8-9	2234	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3820	M89	8-9	2234	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
4225	M89	8-9	2236	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
6666	M89	8-9	2238	Mon	(i.p. QSA? QSA 4 HR MSG GA PSE CY (see N&O 204)	CW	(JPL)
7602	M89	8-9	2308	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3642	M89	8-9	2308	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
8110	M89	9-9	0711	Tue	V 7NPE (x3) DE QV5L (x2) (Cont'd) error in callsign	CW	(JPL)
10640	M89	9-9	0720	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
6840	M89	9-9	0720	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //10640	CW	(JPL)
6840	M89	9-9	0820	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //10640	CW	(JPL)

Freq.	Enigma	Date	UTC	Day	Remarks	Mode	Ctrb
10640	M89	9-9	0820	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
5801	M89	9-9	1146	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180 Station came up on freq sending 05 05 05	CW	(JPL)
10180	M89	9-9	1146	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
8060	M89	9-9	1150	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //6793	CW	(JPL)
6793	M89	9-9	1150	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //8060	CW	(JPL)
4225	M89	9-9	1155	Tue	V 7NPE (x3) DE QV5L (x2) (Cont'd) JPL TUE	CW	(JPL)
7602	M89	9-9	1450	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
5177	M89	9-9	1452	Tue	V JKDJ (x3) DE SLBC (x2) Sending SLBC vice SBLC.	CW	(JPL)
10421	M89	10-9	1010	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //8072	CW	(JPL)
8072	M89	10-9	1010	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //10421	CW	(JPL)
6793	M89	10-9	1016	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //8060	CW	(JPL)
8060	M89	10-9	1016	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //6793	CW	(JPL)
5588	M89	10-9	1019	Wed	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
10640	M89	10-9	1020	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
6840	M89	10-9	1020	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //10640	CW	(JPL)
10180	M89	10-9	1218	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
3330	M89	10-9	1424	Wed	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
7602	M89	10-9	1427	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3642	M89	10-9	1427	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
4532	M89	10-9	1428	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3777	M89	10-9	1428	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
5657	M89	10-9	1431	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
3330	M89	10-9	1628	Wed	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3642	M89	10-9	1629	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	10-9	1629	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3777	M89	10-9	1630	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	10-9	1630	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
5657	M89	10-9	1631	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
4131	M89	10-9	1638	Wed	V JKDJ (x3) DE SLBC (x2) (Cont'd) Still sending SLBC vice SBLC.	CW	(JPL)
3330	M89	10-9	1946	Wed	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3642	M89	10-9	1948	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	10-9	1948	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
4532	M89	10-9	1950	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3777	M89	10-9	1950	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
5657	M89	10-9	1951	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
3330	M89	10-9	2159	Wed	V MW3D DE 2SLC. VVV MSG NR 51 CK .1 4. 0911 ... . 7077 3D4 5D5T NNU. (Cont'd)	CW	(JPL)
3642	M89	11-9	2100	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	11-9	2100	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3330	M89	11-9	2212	Thu	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3642	M89	11-9	2215	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	11-9	2215	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
6666	M89	11-9	2223	Thu	V VXL1 (x3) DE XIW2 (x2) NR 001/EX 0618 RMKS 6199 TO 4199 = (see N&O 204)	CW	(JPL)
6677	M89	11-9	2233	Thu	V BIQ9 (x3) DE ISL2 (x2) (see N&O 204]	CW	(JPL)
8245	M89	12-9	0146	Fri	i.p. 4U7N AR K R	CW	(JPL)
7602	M89	12-9	0152	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
5801	M89	12-9	0157	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
10180	M89	12-9	0157	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
6719	M89	12-9	0159	Fri	CQ (x3) DE DP91 (x2) V HR NIL SK GB //8940	CW	(JPL)
8940	M89	12-9	0159	Fri	CQ (x3) DE DP91 (x2) V //6719	CW	(JPL)
7602	M89	12-9	0557	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
5801	M89	12-9	0954	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
10180	M89	12-9	0954	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
10252	M89	12-9	0957	Fri	i.p. AD 4UNDA UND4 UU37D AU3..3U.N73.4TU6 . 453D UUUUUUUUUE =	CW	(JPL)
8940	M89	12-9	1005	Fri	CQ (x3) DE DP91 (x2) V HR NIL SK GB //6719	CW	(JPL)
6719	M89	12-9	1005	Fri	CQ (x3) DE DP91 (x2) V //8940	CW	(JPL)
8072	M89	12-9	1016	Fri	TYUI i.p. 98 AR = SVC QRJ 86 . O 3.. FM 501EEE AR 190. = 907 AR. FM 5.02? 5 QSL? K HR NR 05	CW	(JPL)
10640	M89	12-9	1020	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K	CW	(JPL)
8060	M89	12-9	1020	Fri	V M8JF (x3) DE RIS9 (x2) (Cont'd) //6793	CW	(JPL)

Freq.	Enigma	Date	UTC	Day	Remarks	Mode	Ctrb
6793	M89	12-9	1020	Fri	V M8JF (x3) DE RIS9 (x2) (Cont'd) //8060	CW	(JPL)
8073	M89	12-9	1223	Fri	i.p. AUD6 A5U7 6DA ? 6A7T 3T AR AR	CW	(JPL)
5801	M89	12-9	1229	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
10180	M89	12-9	1229	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
3820	M89	12-9	1231	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	12-9	1231	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
4532	M89	12-9	1233	Fri	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3777	M89	12-9	1233	Fri	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
3330	M89	12-9	1234	Fri	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3330	M89	12-9	1539	Fri	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
5657	M89	12-9	1543	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3820	M89	12-9	1543	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
4131	M89	12-9	1546	Fri	V JKDJ (x3) DE SLBC (x2) (Cont'd) Still sending SLBC vice SBLC	CW	(JPL)
8940	M89	13-9	0200	Sun	CQ (x3) DE DP91 (x2) V HR NIL SK GB	CW	(JPL)
8940	M89	13-9	0200	Sat	CQ (x3) DE DP91 (x2) V. HR NIL SK GB	CW	(JPL)
10421	M89	13-9	0952	Sat	V GKLO (x3) DE TYUI (x2) (Cont'd) //8072	CW	(JPL)
8072	M89	13-9	0952	Sat	V GKLO (x3) DE TYUI (x2) (Cont'd) //10421	CW	(JPL)
5801	M89	13-9	0954	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
10180	M89	13-9	0954	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
8060	M89	13-9	0957	Sat	V M8JF (x3) DE RIS9 (x2) (Cont'd)	CW	(JPL)
8940	M89	13-9	0958	Sat	CQ (x3) DE DP91 (x2) V. HR NIL SK GB //6452	CW	(JPL)
6452	M89	13-9	1003	Sat	CQ (x3) DE DP91 (x2) V //8940	CW	(JPL)
8012	M89	13-9	1011	Sat	i.p. 11 1 830 T NNI S NR 691A CK 3IOO EX O913 1812	CW	(JPL)
7744	M89	13-9	1019	Sat	(i.p. 7473 N454 7DNU D67D (Cont'd)	CW	(JPL)
6936	M89	13-9	1023	Sat	(i.p. UU5T N6T4 TA73 TUA4 3657 T4DA D733 T7UA (Cont'd) = III III	CW	(JPL)
6840	M89	13-9	1120	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K	CW	(JPL)
5801	M89	13-9	1125	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
10180	M89	13-9	1125	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
3330	M89	13-9	1129	Sat	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3777	M89	13-9	1131	Sat	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	13-9	1131	Sat	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3820	M89	13-9	1133	Sat	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	13-9	1133	Sat	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3642	M89	13-9	2208	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	13-9	2208	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3820	M89	13-9	2211	Sat	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	13-9	2211	Sat	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
8072	M89	14-9	0048	Sun	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
10181	M89	14-9	0050	Sun	i.p. 56A4 AN67 U656 37N3 DN3A AN5A 7TN3 ND45 (Cont'd)	CW	(JPL)
10892	M89	14-9	0116	Sun	KQGB KQGB KQGB DE GYW7 GYW7 K. QSA 4 QSA? K	CW	(JPL)
7602	M89	14-9	0130	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
5801	M89	14-9	0136	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
10180	M89	14-9	0136	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
5177	M89	14-9	0142	Sun	V JKDJ (x3) DE SLBC (x2) (Cont'd) Still sending SLBC vice SBLC.	CW	(JPL)
10876	M89	14-9	0214	Sun	(i.p. R U MSG GA K	CW	(JPL)
6840	M89	14-9	0220	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //10640	CW	(JPL)
10640	M89	14-9	0220	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
10334	M89	14-9	1044	Sun	(i.p. 0914 1825 NR 0EE NR 011 CK 2.9 24 0914 1841 RMKS 4407 TO 4448 K	CW	(JPL)
5801	M89	14-9	1049	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
10180	M89	14-9	1049	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
8072	M89	14-9	1053	Sun	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
8060	M89	14-9	1054	Sun	V M8JF (x3) DE RIS9 (x2) (Cont'd)	CW	(JPL)
5588	M89	14-9	1058	Sun	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3330	M89	14-9	1303	Sun	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
7602	M89	14-9	1305	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3642	M89	14-9	1305	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
3777	M89	14-9	1307	Sun	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	14-9	1307	Sun	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
5657	M89	14-9	1308	Sun	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3820	M89	14-9	1308	Sun	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5177	M89	14-9	1309	Sun	V JKDJ (x3) DE SLBC (x2) (Cont'd) Still sending SLBC vice SBLC.	CW	(JPL)

Freq.	Enigma	Date	UTC	Day	Remarks	Mode	Ctrb
3642	M89	14-9	2212	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	14-9	2212	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
5657	M89	14-9	2214	Sun	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3820	M89	14-9	2214	Sun	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
6840	M89	14-9	2220	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K	CW	(JPL)
8072	M89	15-9	0155	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
7602	M89	15-9	0157	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
11372	M89	15-9	0858	Mon	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
10180	M89	15-9	0904	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
5801	M89	15-9	0904	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
8060	M89	15-9	0919	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd)	CW	(JPL)
6719	M89	15-9	0921	Mon	i.p. 75AT DD4A 447N D565 33U3 NAU6 (Cont'd)	CW	(JPL)
8940	M89	15-9	0959	Mon	CQ (x3) DE DP91 (x2) V PSE NQ CCQ QNQ LL TO HR A HR NIL SK GB //6719	CW	(JPL)
6719	M89	15-9	0959	Mon	CQ (x3) DE DP91 (x2) V //8940	CW	(JPL)
3642	M89	15-9	1402	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	15-9	1402	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3330	M89	15-9	1404	Mon	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
4532	M89	15-9	1407	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //6793	CW	(JPL)
6793	M89	15-9	1407	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
5657	M89	15-9	1409	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3820	M89	15-9	1409	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5648	M89	15-9	1410	Mon	i.p. 1KL2/GHI1 BT (Normally associated with exercise)	CW	(JPL)
6813	M89	15-9	1417	Mon	(i.p. III III III W W WKUSB WK USB WK USB (Switched to SSB USB)	CW	(JPL)
5500	M89	15-9	1431	Mon	i.p. FM 5?35NU V 7NT46 7NT46 7NT46 DE FM5?35NU FM5?	CW	(JPL)
3330	M89	15-9	1859	Mon	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3642	M89	15-9	1900	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	15-9	1900	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
5657	M89	15-9	1904	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3820	M89	15-9	1904	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
4131	M89	15-9	1906	Mon	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
6793	M89	15-9	1908	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	15-9	1908	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //6793	CW	(JPL)
3330	M89	15-9	2114	Mon	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3642	M89	15-9	2115	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	15-9	2115	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
4225	M89	15-9	2116	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
6793	M89	15-9	2119	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	15-9	2119	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //6793	CW	(JPL)
6840	M89	15-9	2120	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //4860	CW	(JPL)
4860	M89	15-9	2120	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
4131	M89	15-9	2127	Mon	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
5177	M89	16-9	0114	Tue	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
5657	M89	16-9	0144	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
8072	M89	16-9	0144	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //10421	CW	(JPL)
3820	M89	16-9	0144	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
10421	M89	16-9	0144	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //8072	CW	(JPL)
5801	M89	16-9	0146	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
10180	M89	16-9	0146	Tue	3A7D i.p. AR QSL ? HR WK NR 31 VV HR SVC GA //5801	CW	(JPL)
6719	M89	16-9	0157	Tue	CQ (x3) DE DP (x2) V (see N&O 204) //8940	CW	(JPL)
8940	M89	16-9	0159	Tue	CQ (x3) DE DP91 (x2) V //6719	CW	(JPL)
6818	M89	16-9	0221	Tue	i.p. TTGGA 7 E NR 001/ 1950 NL 6Z/EX 7KEEE TTT	CW	(JPL)
8072	M89	16-9	0903	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //10421	CW	(JPL)
10421	M89	16-9	0903	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //8072	CW	(JPL)
5588	M89	16-9	0906	Tue	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
8060	M89	16-9	0908	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //6793	CW	(JPL)
6793	M89	16-9	0908	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //8060	CW	(JPL)
5555	M89	16-9	0911	Tue	i.p. AR AR 05 05 05 AU34 ...4567DN 123456789	CW	(JPL)
6840	M89	16-9	0920	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //10640	CW	(JPL)
10640	M89	16-9	0920	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
5801	M89	16-9	0928	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
10180	M89	16-9	0928	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)

Freq.	Enigma	Date	UTC	Day	Remarks	Mode	Ctrb
7609	M89	16-9	0943	Tue	i.p. T533 3DA4 DDN6 D573 DU34 34TA (Cont'd) III =	CW	(JPL)
6719	M89	16-9	0959	Tue	CQ (x3) DE DP91 (x2) V //8940	CW	(JPL)
8940	M89	16-9	0959	Tue	CQ (x3) DE DP91 (x2) V HR NIL SK GB //6719	CW	(JPL)
8060	M89	16-9	1219	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //6793	CW	(JPL)
3330	M89	16-9	1418	Tue	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
7602	M89	16-9	1419	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3642	M89	16-9	1419	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
6840	M89	16-9	1420	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //4860	CW	(JPL)
4860	M89	16-9	1420	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
4131	M89	16-9	1425	Tue	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
3777	M89	16-9	1426	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	16-9	1426	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
5500	M89	16-9	1447	Tue	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
8072	M89	16-9	2326	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //10421	CW	(JPL)
10421	M89	16-9	2326	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //8072	CW	(JPL)
6793	M89	16-9	2329	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //8060	CW	(JPL)
3642	M89	16-9	2333	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	16-9	2333	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
5588	M89	16-9	2335	Tue	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
8940	M89	17-9	0200	Wed	i.p. T CQ T T D CQ CQ U ? UIUUUU? W T //6719	CW	(JPL)
6719	M89	17-9	0208	Wed	CQ (x3) DE DP (x2) V CA ECR NIL SK GB HR NIL SK GB //8940	CW	(JPL)
10180	M89	17-9	0215	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
5801	M89	17-9	0215	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
6636	M89	17-9	0216	Wed	i.p. NTT3 6TD4 D733 NNNA N376 TTT3 T4UA NNNA N376 TTT3 T4UA (see N&O 204)	CW	(JPL)
3330	M89	17-9	1448	Wed	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
7602	M89	17-9	1450	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
3777	M89	17-9	1452	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	17-9	1452	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
5657	M89	17-9	1454	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3820	M89	17-9	1454	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
3330	M89	17-9	1535	Wed	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
7602	M89	17-9	1536	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3642	M89	17-9	1536	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
5657	M89	17-9	1539	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3820	M89	17-9	1539	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5177	M89	17-9	1541	Wed	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
6840	M89	17-9	1720	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //4860	CW	(JPL)
4860	M89	17-9	1720	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
5177	M89	17-9	1729	Wed	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
3330	M89	17-9	1936	Wed	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
7602	M89	17-9	1937	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3642	M89	17-9	1937	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
5177	M89	17-9	1938	Wed	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
7602	M89	18-9	0006	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3642	M89	18-9	0006	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
4131	M89	18-9	0009	Thu	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
8072	M89	18-9	0014	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
6840	M89	18-9	0020	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //10640	CW	(JPL)
10640	M89	18-9	0020	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
8940	M89	18-9	0208	Thu	CQ (x3) DE DP91 (x2) V HR NIL SK GB	CW	(JPL)
5801	M89	18-9	0212	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
10180	M89	18-9	0212	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
5205	M89	18-9	0217	Thu	i.p. N34A 7U6T 6A.D 4T5U UTNA ND36 (Cont'd) III = = 5DN7 N4A....	CW	(JPL)
6793	M89	18-9	0948	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd) //8060	CW	(JPL)
8060	M89	18-9	0948	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd) //6793	CW	(JPL)
8072	M89	18-9	0950	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
10180	M89	18-9	0953	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
8940	M89	18-9	0959	Thu	CQ (x3) DE DP91 (x2) V HR NIL SK GB	CW	(JPL)
6719	M89	18-9	1000	Thu	CQ (x3) DE DP91 (x2) V. 2 different DP91 on the air	CW	(JPL)
3330	M89	18-9	2107	Thu	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
7602	M89	18-9	2108	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)

Freq.	Enigma	Date	UTC	Day	Remarks	Mode	Ctrb
3642	M89	18-9	2108	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
4532	M89	18-9	2114	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3777	M89	18-9	2114	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
5657	M89	18-9	2116	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3820	M89	18-9	2116	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
4131	M89	18-9	2119	Thu	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
6840	M89	18-9	2120	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //4860	CW	(JPL)
4860	M89	18-9	2120	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
8940	M89	19-9	0158	Fri	CQ (x3) DE DP91 (x2) V HR HR NIL NIL SK SK GB GB //6719 (JPL) M89 CW	CW	(JPL)
6719	M89	19-9	0202	Fri	CQ (x3) DE DP91 (x2) V //8940	CW	(JPL)
10180	M89	19-9	0215	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
3330	M89	21-9	2033	Sun	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3642	M89	21-9	2035	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	21-9	2035	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3777	M89	21-9	2037	Sun	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	21-9	2037	Sun	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
5500	M89	21-9	2039	Sun	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
5657	M89	21-9	2040	Sun	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3820	M89	21-9	2040	Sun	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5177	M89	21-9	2052	Sun	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
6719	M89	22-9	1001	Mon	CQ (x3) DE DP91 (x2) V //8940	CW	(JPL)
8940	M89	22-9	1001	Mon	CQ (x3) DE DP91 (x2) V HR NIL SK GB //6714	CW	(JPL)
10640	M89	22-9	1020	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
6840	M89	22-9	1020	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //10640	CW	(JPL)
5801	M89	22-9	1025	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
10180	M89	22-9	1025	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
8072	M89	22-9	1032	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
6793	M89	22-9	1034	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //8060	CW	(JPL)
8060	M89	22-9	1034	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //6793	CW	(JPL)
3330	M89	22-9	1102	Mon	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
8110	M89	22-9	1103	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
7182	M89	22-9	1148	Mon	i.p. ANU3 6AU6 6735 T645 D6ND (Cont'd) III = TNUA D7.4 4U34 N36A 6DUA (Cont'd)	CW	(JPL)
5688	M89	22-9	1204	Mon	(i.p. 36D3 U435 UN63 3T3A 6D6D T3AN (Cont'd) III .114 U5N7 U7NA 36D6 (Cont'd)	CW	(JPL)
5177	M89	22-9	1215	Mon	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
7602	M89	22-9	1331	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3642	M89	22-9	1331	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
3820	M89	22-9	1333	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	22-9	1333	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
4241	M89	22-9	1336	Mon	VV XW2P DE XWB5 K (see N&O 204)	CW	(JPL)
4532	M89	22-9	1608	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3777	M89	22-9	1608	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
5500	M89	22-9	1615	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
8062	M89	22-9	1624	Mon	i.p. AR R SK GB	CW	(JPL)
8062	M89	22-9	1718	Mon	i.p. 673D 6A5T 73DN DU73 6U7D 7D6A (Cont'd) III = 6.A7 5TDN 6.6A A.UN 3A6E (Cont'd)	CW	(JPL)
3330	M89	22-9	2059	Mon	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
7602	M89	22-9	2102	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3642	M89	22-9	2102	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
4532	M89	22-9	2103	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3777	M89	22-9	2103	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
5657	M89	22-9	2104	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3820	M89	22-9	2105	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5500	M89	22-9	2115	Mon	i.p. 0545/Z32/1951 AR	CW	(JPL)
4860	M89	22-9	2120	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
6840	M89	22-9	2120	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //4860	CW	(JPL)
10421	M89	23-9	0030	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //8072	CW	(JPL)
8072	M89	23-9	0030	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //10421	CW	(JPL)
8110	M89	23-9	0034	Tue	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
8888	M89	23-9	0034	Tue	05 05 05 (Cont'd) = AU43U4N537U7U5N4 63 N3.N.. (Cont'd) = AU43U4N537U7U5..	CW	(JPL)

Freq.	Enigma	Date	UTC	Day	Remarks	Mode	Ctrb
3642	M89	23-9	0043	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	23-9	0043	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
8940	M89	23-9	0157	Tue	SIAU.AD.7 3UVAJKU AAAI RUUAU (Cont'd) CQ (x3) DE DP91 (x2) V. HR NIL SK GB //6719	CW	(JPL)
6719	M89	23-9	0201	Tue	OGONE A O9 E A CQ DP91 V CQ (x3) DE DP91 (x2) V //8940	CW	(JPL)
10180	M89	23-9	0212	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
5801	M89	23-9	0212	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
8060	M89	23-9	0215	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd)	CW	(JPL)
6840	M89	23-9	0220	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //10640	CW	(JPL)
10640	M89	23-9	0220	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
6840	M89	23-9	0920	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //10640	CW	(JPL)
10640	M89	23-9	0920	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
5588	M89	23-9	0922	Tue	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
6793	M89	23-9	0925	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //8060	CW	(JPL)
8060	M89	23-9	0925	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //6793	CW	(JPL)
5555	M89	23-9	0929	Tue	05 (05 05 05 (Cont'd)	CW	(JPL)
8072	M89	23-9	0940	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //10421	CW	(JPL)
10421	M89	23-9	0940	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //8072	CW	(JPL)
10180	M89	23-9	0943	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
5801	M89	23-9	0943	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
8940	M89	23-9	0955	Tue	CQ (x3) DE DP91 (x2) V. HR HR NIL NIL SK SK GB GB //6719	CW	(JPL)
6719	M89	23-9	0959	Tue	CQ (x3) DE DP91 (x2) V NIL SK GB (x8) //8940	CW	(JPL)
10640	M89	24-9	0220	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
6840	M89	24-9	0220	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //10640	CW	(JPL)
7778	M89	24-9	0225	Wed	i.p. 5D67 TN3A UD47 56NT A4U3 567N (Cont'd) AR = = AU37 = = AU37 NA66 NANA	CW	(JPL)
6666	M89	24-9	0231	Wed	(i.p. EA7U 5N6T 4D5N 6U7T 3D4A 7T3D 4A5U (Cont'd)	CW	(JPL)
8940	M89	24-9	0959	Wed	CQ (x3) DE DP91 (x2) V //6719	CW	(JPL)
6719	M89	24-9	1001	Wed	CQ (x3) DE DP91 (x2) V. PSE NQ KKK NQ LL TO HR AHR NIL SK GB //8940	CW	(JPL)
5801	M89	24-9	1015	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
10180	M89	24-9	1015	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
8072	M89	24-9	1018	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
6793	M89	24-9	1019	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //8060	CW	(JPL)
8060	M89	24-9	1019	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //6793	CW	(JPL)
10640	M89	24-9	1020	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
6840	M89	24-9	1020	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //10640	CW	(JPL)
5588	M89	24-9	1025	Wed	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
5230	M89	24-9	1025	Wed	(i.p. DNDN A6NU T4.U UNT. (Cont'd)	CW	(JPL)
4131	M89	24-9	1552	Wed	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
3330	M89	24-9	1553	Wed	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3330	M89	24-9	1807	Wed	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
10180	M89	24-9	1810	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
5801	M89	24-9	1810	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
4532	M89	24-9	1812	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3777	M89	24-9	1812	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
5657	M89	24-9	1815	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3820	M89	24-9	1815	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
4131	M89	24-9	1816	Wed	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
6840	M89	24-9	1820	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //4860	CW	(JPL)
4860	M89	24-9	1820	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
10180	M89	25-9	0151	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
5801	M89	25-9	0151	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
8072	M89	25-9	0153	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd) //10421	CW	(JPL)
10421	M89	25-9	0153	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd) //8072	CW	(JPL)
8940	M89	25-9	0156	Thu	CQ (x3) DE DP91 (x2) V //6719	CW	(JPL)
6719	M89	25-9	0159	Thu	CQ (x3) DE DP91 (x2) V (see N&O 204) //8940	CW	(JPL)
6840	M89	25-9	0220	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //10640	CW	(JPL)
10640	M89	25-9	0220	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
6840	M89	25-9	0920	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //10640	CW	(JPrb)
10640	M89	25-9	0920	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
8072	M89	25-9	0926	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd) //10421	CW	(JPL)
10421	M89	25-9	0926	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd) //8072	CW	(JPL)

Freq.	Enigma	Date	UTC	Day	Remarks	Mode	Ctrb
8060	M89	25-9	0955	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd) //6793	CW	(JPL)
6793	M89	25-9	0955	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd) //8060	CW	(JPL)
8940	M89	25-9	0958	Thu	CQ (x3) DE DP91 (x2) V HR NIL K E7E HR NIL SK GB //6719	CW	(JPL)
6719	M89	25-9	0959	Thu	CQ (x3) DE DP91 (x2) V HR NIL SK GB //8940	CW	(JPL)
6840	M89	25-9	1420	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //4860	CW	(JPL)
4860	M89	25-9	1420	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
3330	M89	25-9	1422	Thu	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3642	M89	25-9	1425	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	25-9	1425	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
4532	M89	25-9	1427	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3777	M89	25-9	1427	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
5657	M89	25-9	1429	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3820	M89	25-9	1429	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
4131	M89	25-9	1433	Thu	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
5314	M89	25-9	1438	Thu	(i.p. N34T T74T TNDN UD35 N7ND 7D7A (Cont'd) AR R QSL 2... K (see N&O 204)	CW	(JPL)
7602	M89	25-9	2219	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3642	M89	25-9	2219	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
6840	M89	25-9	2220	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K	CW	(JPL)
5657	M89	25-9	2225	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3820	M89	25-9	2225	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
6793	M89	25-9	2226	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	25-9	2226	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd) //6793	CW	(JPL)
5215	M89	25-9	2228	Thu	(i.p. NR 003/EX 067 RMKS 5160 TO E EEEE RMKS 5160 TO 5864 K (see N&O 204)	CW	(JPL)
10421	M89	26-9	0205	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //8072	CW	(JPL)
8072	M89	26-9	0205	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //10421	CW	(JPL)
10640	M89	26-9	0220	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
6840	M89	26-9	0220	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //10640	CW	(JPL)
5588	M89	26-9	1035	Fri	i.p. A67D 3TU7 A36N NT43 AT5A 4T37. V MW3D DE 2SLC	CW	(JPL)
8072	M89	26-9	1045	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //10421	CW	(JPL)
10421	M89	26-9	1045	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //8072	CW	(JPL)
6793	M89	26-9	1047	Fri	V M8JF (x3) DE RIS9 (x2) (Cont'd) //8060	CW	(JPL)
8060	M89	26-9	1047	Fri	V M8JF (x3) DE RIS9 (x2) (Cont'd) //6793	CW	(JPL)
3330	M89	26-9	1605	Fri	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3642	M89	26-9	1608	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	26-9	1608	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
5657	M89	26-9	1610	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3820	M89	26-9	1610	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
4532	M89	26-9	1612	Fri	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3777	M89	26-9	1612	Fri	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4131	M89	26-9	1613	Fri	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
6840	M89	26-9	1620	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //4860	CW	(JPL)
4860	M89	26-9	1620	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
6451	M89	26-9	1823	Fri	i.p. NAD4 UD47 7N3? 7N3D 7DNA A7DN 4T36 (Cont'd)	CW	(JPL)
6840	M89	26-9	2020	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //4860	CW	(JPL)
4860	M89	26-9	2020	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
3330	M89	26-9	2021	Fri	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
7602	M89	26-9	2023	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
3777	M89	26-9	2024	Fri	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	26-9	2024	Fri	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3820	M89	26-9	2025	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	26-9	2025	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
5588	M89	26-9	2340	Fri	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
8060	M89	26-9	2342	Fri	V M8JF (x3) DE RIS9 (x2) (Cont'd) //6793	CW	(JPL)
8072	M89	26-9	2344	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
5657	M89	27-9	1338	Sat	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3820	M89	27-9	1338	Sat	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5588	M89	27-9	1340	Sat	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3642	M89	27-9	1343	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	27-9	1343	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3777	M89	27-9	1345	Sat	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)

Freq.	Enigma	Date	UTC	Day	Remarks	Mode	Ctrb
4532	M89	27-9	1345	Sat	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
6813	M89v	15-9	1420	Mon	70031 gu liang 70031 gu liang gu 731 gu 722192 (rpts) 7944 794415 gu liang (see N&O 204)	USB	(JPL)
4308	MC03	14-9	1510	Sun	Chinese Air Defense. Grid tracking	CW	(AtB)
5089	MC03	15-9	2129	Mon	556 U47N7A 54DU73A AT6 UD. 556 U47N6U 5ND7DUD AAU UN. 556 U3TN7D 7TN3444 AT4 UN	CW	(JPL-Sib)
13527.9	MX	2-9	1642	Tue	Beacon "S" Severomorsk	CW	(MPJ)
13527.7	MX	2-9	1642	Tue	Beacon "D" Sevastopol/Odessa	CW	(MPJ)
13527.8	MX	2-9	1643	Tue	Beacon "P" Kaliningrad	CW	(MPJ)
13527.7	MX	3-9	1701	Wed	Beacon "D" Sevastopol/Odessa	CW	(MPJ)
13527.8	MX	3-9	1708	Wed	Beacon "P" Kaliningrad	CW	(MPJ)
10871.7	MX	4-9	1432	Thu	Beacon "D" Sevastopol/Odessa	CW	(MPJ)
10872	MX	4-9	1433	Thu	Beacon "C" Moscow	CW	(MPJ)
8497.8	MX	4-9	1515	Thu	Beacon "L" St Peterburg	CW	(MPJ)
20047.7	MX	5-9	0709	Fri	Beacon "D" Sevastopol	CW	(LG2)
16332	MX	5-9	0735	Fri	Beacon "C" Moscow	CW	(LG2)
20048.3	MX	7-9	0646	Sun	Beacon "K" Petropavlovsk	CW	(EW)
6917.5	MX	8-9	1828		Beacon "L" St Petersburg	CW	(AB)
5157	MX	9-9	1206	Tue	Beacon "L"	CW	(JPL-FNL)
6917.5	MX	9-9	1206	Tue	Beacon "L"	CW	(JPL-FNL)
7603.4	MX	9-9	1225	Tue	Beacon "U"	CW	(JPL-FNL)
7603.4	MX	9-9	1427	Tue	Beacon "U"	CW	(AB-FNL)
7603.4	MX	9-9	1634	Tue	Beacon "U"	CW	(AB-FNL)
8497.9	MX	11-9	1900	Thu	Defective "L" beacon sending "CFCÖFC"	CW	(Topol)
6928	MX	11-9	1946	Thu	Beacon "V" Khiva	CW	(AB)
6917.5	MX	11-9	1948	Thu	Defective "L" beacon sending "CFCÖFC"	CW	(AB)
8497.9	MX	11-9	1948	Thu	Defective "L" beacon sending "CFCÖFC"	CW	(AB)
8497.9	MX	13-9	0545	Sat	Defective "L" beacon sending "CFCÖFC"	CW	(AB)
6917.5	MX	13-9	0545	Sat	Defective "L" beacon sending "CFCÖFC"	CW	(AB)
7603.4	MX	13-9	0714	Sat	Beacon "U"	CW	(AB-FNL)
10872.2	MX	13-9	1747	Sat	Beacon "F" Vladivostok	CW	(PPA)
10872.4	MX	13-9	1830	Sat	Beacon "M" Magadan	CW	(PPA)
8497.9	MX	14-9	0722	Sun	Beacon "L" back to normal	CW	(AB)
20048	MX	15-9	1257	Mon	Beacon "C" Moscow	CW	(WP3)
20047.9	MX	15-9	1257	Mon	Beacon "S" Severomorsk	CW	(WP3)
20047.7	MX	15-9	1257	Mon	Beacon "D" Sevastopol	CW	(WP3)
20047.7	MX	17-9	1207	Wed	Beacon "D" Sevastopol	CW	(AAI)
13527.9	MX	17-9	1700	Wed	Beacon "S"	CW	(AB)
13528	MX	17-9	1700	Wed	Beacon "C"	CW	(AB)
8497.9	MX	17-9	1700	Wed	Beacon "L"	CW	(AB)
6917.5	MX	17-9	1700	Wed	Beacon "L"	CW	(AB)
6928	MX	19-9	2038	Fri	Beacon "V"	CW	(AB)
6917.5	MX	19-9	2058	Fri	Beacon "L"	CW	(AB)
8497.9	MX	19-9	2058	Fri	Beacon "L"	CW	(AB)
8162	MX	20-9	0940	Sat	W-markers: Tu-95MS Bear H net	CW	(Tom)
6917.5	MX	23-9	2037	Tue	Beacon "L" St Petersburg	CW	(AAI)
8497.9	MX	26-9	1439	Fri	Beacon "L"	CW	(AB)
16331.7	MX	26-9	1439	Fri	Beacon "D"	CW	(AB)
16332	MX	26-9	1439	Fri	Beacon "C"	CW	(AB)
13527.9	MX	26-9	1439	Fri	Beacon "S"	CW	(AB)
10871.7	MX	26-9	1439	Fri	Beacon "D"	CW	(AB)
10871.9	MX	26-9	1439	Fri	Beacon "S"	CW	(AB)
6917.5	MX	26-9	1439	Fri	Beacon "L"	CW	(AB)
10872	MX	26-9	1439	Fri	Beacon "C"	CW	(AB)
20047.7	MX	30-9	1345	Tue	Beacon "D" Sevastopol	CW	(AAI)
20048	MX	30-9	1346	Tue	Beacon "C" Moscow	CW	(AAI)
6928	MX	30-9	1740	Tue	Beacon "V" Khiva	CW	(AB)
6917.5	MX	30-9	1741	Tue	Distorted beacon "L" St Petersburg	CW	(AB)
8497.9	MX	30-9	1742	Tue	Beacon "L" St Petersburg	CW	(AB)
5127	S06	1-9	1905	Mon	349 0	USB	(HFD)
5784	S06	4-9	1900	Thu	349 0	USB	(HFD)
8062	S06	6-9	1600	Sat	194 0	USB	(HFD)

Freq.	Enigma	Date	UTC	Day	Remarks	Mode	Ctrb
5317	S06	6-9	1900	Sat	362 0	USB	(HFD)
5787	S06	6-9	1930	Sat	396 0	USB	(HFD)
4534	S06	6-9	2000	Sat	362 0	USB	(HFD)
5127	S06	11-9	1905	Thu	349 0	USB	(HFD)
5127	S06	11-9	1950	Thu	349 349 349 00000	USB	(GHn)
7342	S06	13-9	1605	Sat	194 0	USB	(HFD)
4617	S06	13-9	1935	Sat	396 0	USB	(HFD)
5127	S06	18-9	1905	Thu	349 0	USB	(HFD)
9070	S06	19-9	0600	Fri	089 175 23 10498 10374 77209 … 67476 54953 38277 175 175 23 23 00000	USB	(AB/Danix)
8062	S06	20-9	1600	Sat	194 194 194 00000	AM	(GHn)
8062	S06	20-9	1600	Sat	194 0 //7342	USB	(HFD)
7342	S06	20-9	1600	Sat	194 0 //8062	USB	(HFD)
5787	S06	20-9	1930	Sat	396 0	USB	(HFD)
5787	S06	20-9	1930	Sat	396 396 396 00000	USB	(GHn)
5784	S06	22-9	1900	Mon	349 0	USB	(HFD)
15721	S06	23-9	0400	Tue		USB	(Danix)
16319	S06c	25-9	1457	Thu	11009	USB	(Avare)
16319	S06c	25-9	1505	Thu	11009	USB	(Avare)
13524	S06c	25-9	1515	Thu	11009	USB	(Avare)
9220	S06s	1-9	0830	Mon	371 864 5 56365	USB	(HFD)
9220	S06s	1-9	0830	Mon	371 864 5 76367 84777 55977 48638 14867	USB	(Danix)
8270	S06s	1-9	0840	Mon	371	USB	(HFD)
8270	S06s	1-9	0840	Mon	371 864 5 76367 84777 55977 48638 14867	USB	(Danix)
14580	S06s	1-9	0900	Mon	872 413 5 57914 99227 16046 11383 00359	USB	(Danix)
14580	S06s	1-9	0900	Mon	872 413 5 57914	USB	(HFD)
13165	S06s	1-9	0910	Mon	872	USB	(HFD)
13165	S06s	1-9	0910	Mon	872 413 5 57914 99227 16046 11383 00359	USB	(Danix)
9145	S06s	1-9	1200	Mon	831 267 5 45062	USB	(HFD)
9145	S06s	1-9	1200	Mon	831 267 5 46062 68672 97478 39685 79485	USB	(Danix)
11460	S06s	1-9	1210	Mon	831	USB	(HFD)
11460	S06s	1-9	1210	Mon	831 267 5 46062 68672 97478 39685 79485	USB	(Danix)
5760	S06s	2-9	0700	Tue	374 918 5 48304 33888 23754 97912 10870 918 5 00000 Barely audible	USB	(AB)
5760	S06s	2-9	0700	Tue	374 918 5 48304	USB	(HFD)
6930	S06s	2-9	0710	Tue	374	USB	(HFD)
6930	S06s	2-9	0715	Tue	374 918 5 48304 33888 23754 97912 10870 918 5 00000	USB	(AB)
7425	S06s	2-9	0730	Tue	427 890 5 19440 24069 19100 36531 11733	USB	(Danix)
7524	S06s	2-9	0730	Tue	427 890 5 19440 24069 19100 36531 11733 890 5 00000	USB	(AB)
7425	S06s	2-9	0730	Tue	427 890/5 19440	USB	(HFD)
11560	S06s	2-9	0740	Tue	427 890 5 19440 24069 19100 36531 11733 890 5 00000	USB	(AB)
11560	S06s	2-9	0740	Tue	427 890 5 19440 24069 19100 36531 11733	USB	(Danix)
11560	S06s	2-9	0740	Tue	427	USB	(HFD)
11635	S06s	2-9	0800	Tue	mixing with HM01. 352 971 6 37264 82910 38774 56473 99210 67843 971 6 00000	USB	(AB)
11635	S06s	2-9	0800	Tue	352 971 6 37564	USB	(HFD)
10420	S06s	2-9	0810	Tue	352	USB	(HFD)
10420	S06s	2-9	0810	Tue	352 971 6 37264 82910 38774 56473 99210 67843 971 6 00000	USB	(AB)
6190	S06s	2-9	1100	Tue	754 928 6 30738 98192 59983 71840 77398 27970	USB	(Danix)
7230	S06s	2-9	1110	Tue	754 928 6 30738 98192 59983 71840 77398 27970	USB	(Danix)
6464	S06s	2-9	1500	Tue	537 942 6 43698 87573 14199 58778 22911 47292	USB	(Danix)
7242	S06s	2-9	1510	Tue	537 942 6 43698 87573 14199 58778 22911 47292	USB	(Danix)
11854	S06s	3-9	0730	Wed	745 930 6 58906 31477 91127 49572 96314 52976	USB	(Danix)
11854	S06s	3-9	0730	Wed	745 930 6 58906	USB	(HFD)
12140	S06s	3-9	0740	Wed	745	USB	(HFD)
12140	S06s	3-9	0740	Wed	745 930 6 58906 31477 91127 49572 96314 52976	USB	(Danix)
7605	S06s	3-9	0820	Wed	471 960 5 51990	USB	(HFD)
9255	S06s	3-9	0830	Wed	471	USB	(HFD)
13365	S06s	3-9	1000	Wed	729 504 6 86740 87543 14199 12675 39654 49477	USB	(Danix)
13365	S06s	3-9	1000	Wed	729 504 6 86740	USB	(HFD)
14505	S06s	3-9	1010	Wed	729 504 6 86740 87543 14199 12675 39654 49477	USB	(Danix)
14505	S06s	3-9	1010	Wed	729	USB	(HFD)
12952	S06s	4-9	0900	Thu	167 430 5 41422 44599 36384 58353 40385	USB	(Danix)

Freq.	Enigma	Date	UTC	Day	Remarks	Mode	Ctrb
13565	S06s	4-9	0910	Thu	167 430 5 41422 44599 36384 58353 40385	USB	(Danix)
12415	S06s	4-9	1200	Thu	425 801 6 82232	USB	(HFD)
12415	S06s	4-9	1200	Thu	425 801 6 82232 11326 26585 43584 33291 83913	USB	(Danix)
14212	S06s	4-9	1210	Thu	Harmonics on 14188.7 and 14235.3 kHz. 425 801 6 82232 11326 26585 43584 33291 83913 801 6 00000	H3E	(Avare/CS)
14212	S06s	4-9	1210	Thu	425 801 6 82232 11326 26585 43584 33291 83913	USB	(Danix)
14212	S06s	4-9	1210	Thu	425	USB	(HFD)
9078	S06s	5-9	0600	Fri	934 827 5 40673 74771 59284 30738 98795 827 5 00000	AM	(AB)
9078	S06s	5-9	0600	Fri	934 827 5 40673 74771 59284 30738 98795	USB	(Danix)
7795	S06s	5-9	0600	Fri	196 873 5 68425	USB	(HFD)
9078	S06s	5-9	0600	Fri	934 827 5 40673	USB	(HFD)
7795	S06s	5-9	0600	Fri	196 873 5 68425 68563 97012 45386 44910 873 5 00000	AM	(AB)
8695	S06s	5-9	0610	Fri	196 873 5 68425 68563 97012 45386 44910 873 5 00000	AM	(AB)
10148	S06s	5-9	0610	Fri	934	USB	(HFD)
10148	S06s	5-9	0610	Fri	934 827 5 40673 74771 59284 30738 98795 827 5 00000	AM	(AB)
8695	S06s	5-9	0610	Fri	196	USB	(HFD)
10148	S06s	5-9	0610	Fri	934 827 5 40673 74771 59284 30738 98795	USB	(Danix)
12140	S06s	5-9	0930	Fri	516 893 7 35813 35212 43851 45385 49844 34147 38140 893 7 00000	AM	(AB)
12140	S06s	5-9	0930	Fri	516 893 7 35813	USB	(HFD)
12140	S06s	5-9	0930	Fri	516 893 7 35813 35212 43851 45385 49844 34147 38140	USB	(Danix)
13515	S06s	5-9	0940	Fri	516 893 7 35813 35212 43851 45385 49844 34147 38140	USB	(Danix)
13515	S06s	5-9	0940	Fri	516	USB	(HFD)
13515	S06s	5-9	0940	Fri	516 893 7 35813 35212 43851 45385 49844 34147 38140 893 7 00000	AM	(AB)
10350	S06s	6-9	1200	Sat	254 879 6 33291	USB	(HFD)
10350	S06s	6-9	1200	Sat	254 879 6 33291 83913 72557 61391 75878 93683	USB	(Danix)
8520	S06s	6-9	1210	Sat	254	USB	(HFD)
8520	S06s	6-9	1210	Sat	254 879 6 33291 83913 72557 61391 75878 93683	USB	(Danix)
22185	S06s	7-9	0630	Sun	524 871 6 42465 46683 90715 42738 80515 51992(?)	USB	(Danix)
22185	S06s	7-9	0638	Sun	i.p. ends with 891 6 00000	USB	(EW)
20050	S06s	7-9	0640	Sun	524 891 6 unreadable	USB	(AB)
20050	S06s	7-9	0640	Sun	524 871 6 42465 46683 90715 42738 80515 51992(?)	USB	(Danix)
9220	S06s	8-9	0830	Mon	371 864 5 76367 84777 55977 48638 14867	USB	(Danix)
9220	S06s	8-9	0830		371 864 5 76367 84777 55977 48638 14867 864 5 00000	AM	(AB)
8270	S06s	8-9	0840	Mon	371 864 5 76367 84777 55977 48638 14867	USB	(Danix)
8270	S06s	8-9	0840		371 864 5 76367 84777 55977 48638 14867 864 5 00000	AM	(AB)
14580	S06s	8-9	0900	Mon	872 413 5 57914 99227 16046 11383 00359	USB	(Danix)
14580	S06s	8-9	0900		872 413 5 57914 99227 16046 11383 00359 413 5 00000	USB	(AB)
13165	S06s	8-9	0910	Mon	872 413 5 57914 99227 16046 11383 00359	USB	(Danix)
13165	S06s	8-9	0910		872 413 5 57914 99227 16046 11383 00359 413 5 00000	USB	(AB)
9145	S06s	8-9	1200	Mon	831 267 5 46062 68672 97478 39685 79485	USB	(Danix)
11460	S06s	8-9	1210	Mon	831 267 5 46062 68672 97478 39685 79485	USB	(Danix)
5760	S06s	9-9	0700	Tue	374 918 5 48304 33888 23754 97912 10870 918 5 00000	USB	(AB)
6930	S06s	9-9	0715	Tue	374 918 5 48304 33888 23754 97912 10870 918 5 00000	USB	(AB)
7425	S06s	9-9	0730	Tue	427 890 5 19440 24069 19100 36531 11733 890 5 00000	AM	(AB)
7425	S06s	9-9	0730	Tue	427 890 5 19440 24069 19100 36531 11733	USB	(Danix)
11560	S06s	9-9	0740	Tue	427 890 5 19440 24069 19100 36531 11733 890 5 00000	AM	(AB)
11560	S06s	9-9	0740	Tue	427 890 5 19440 24069 19100 36531 11733	USB	(Danix)
11635	S06s	9-9	0800	Tue	352 971 6 37264 82910 38774 56473 99210 67843 971 6 00000. Mixing with HM01	USB	(AB)
10420	S06s	9-9	0810	Tue	352 971 6 37264 82910 38774 56473 99210 67843 971 6 00000	USB	(AB)
6190	S06s	9-9	1100	Tue	754 928 6 30738 98192 59983 71840 77398 27970	USB	(Danix)
7230	S06s	9-9	1110	Tue	754 928 6 30738 98192 59983 71840 77398 27970	USB	(Danix)
6464	S06s	9-9	1500	Tue	537 942 6 43698	USB	(HFD)
6464	S06s	9-9	1500	Tue	537 942 6 43698 87573 14199 58778 22911 47292	USB	(Danix)
6464	S06s	9-9	1500	Tue	537 942 6 43698 87573 14199 58778 22911 47292 942 6 00000	USB	(AB)
7242	S06s	9-9	1510	Tue	537 942 6 43698 87573 14199 58778 22911 47292	USB	(Danix)
7245	S06s	9-9	1510	Tue	537 942 6 43698 87573 14199 58778 22911 47292 942 6 00000	USB	(AB)
7245	S06s	9-9	1510	Tue	537	USB	(HFD)
11854	S06s	10-9	0730	Wed	745 930 6 58906 31477 91127 49572 96314 52976	USB	(Danix)
12140	S06s	10-9	0740	Wed	745 930 6 58906 31477 91127 49572 96314 52976	USB	(Danix)
13365	S06s	10-9	1000	Wed	729 504 6 86740 87543 14199 12675 39654 49477	USB	(Danix)
14505	S06s	10-9	1010	Wed	729 504 6 86740 87543 14199 12675 39654 49477	USB	(Danix)

Freq.	Enigma	Date	UTC	Day	Remarks	Mode	Ctrb
12952	S06s	11-9	0900	Thu	167 430 5 41422 44599 36384 58353 40385 430 5 00000	AM	(AB)
5744	S06s	11-9	0900	Thu	624 837 5 84574	USB	(HFD)
5744	S06s	11-9	0900	Thu	624 837 ? 84674 89978 80358 49906 ???? Barely readable	USB	(AB)
12952	S06s	11-9	0900	Thu	167 430 5 41422 44599 36384 58353 40385	USB	(Danix)
6524	S06s	11-9	0910	Thu	624	USB	(HFD)
13565	S06s	11-9	0910	Thu	167 430 5 41422 44599 36384 58353 40385	USB	(Danix)
13565	S06s	11-9	0910	Thu	167 430 5 41422 44599 36384 58353 40385 430 5 00000	AM	(AB)
6524	S06s	11-9	0910	Thu	624 837 ? 84674 89978 80358 49906 ???? Barely readable	USB	(AB)
9985	S06s	11-9	0950	Thu	635 427 8 96435	USB	(HFD)
11540	S06s	11-9	1000	Thu	635	USB	(HFD)
12415	S06s	11-9	1200	Thu	425 801 6 82232 11326 26585 43584 33291 83913	USB	(Danix)
14212	S06s	11-9	1210	Thu	425 801 6 82232 11326 26585 43584 33291 83913	USB	(Danix)
7795	S06s	12-9	0600	Fri	196 873 5 68425 68563 97012 45386 44910 873 6 00000	USB	(AB)
9078	S06s	12-9	0600	Fri	934 827 5 40673 74771 59284 30738 98795 827 5 00000	USB	(AB)
9078	S06s	12-9	0600	Fri	934 827 5 40673 74771 59284 30738 98795	USB	(Danix)
8695	S06s	12-9	0610	Fri	196 873 5 68425 68563 97012 45386 44910 873 6 00000	USB	(AB)
10148	S06s	12-9	0610	Fri	934 827 5 40673 74771 59284 30738 98795	USB	(Danix)
10148	S06s	12-9	0610	Fri	934 827 5 40673 74771 59284 30738 98795 827 5 00000	USB	(AB)
12140	S06s	12-9	0930	Fri	516 893 7 35813 35212 43851b 45385 49844 34147 38140 00000	USB	(AB)
12140	S06s	12-9	0930	Fri	516 893 7 35813 35212 43851 45385 49844 34147 38140	USB	(Danix)
13515	S06s	12-9	0940	Fri	516 893 7 35813 35212 43851b 45385 49844 34147 38140 00000	USB	(AB)
13515	S06s	12-9	0940	Fri	516 893 7 35813 35212 43851 45385 49844 34147 38140	USB	(Danix)
22185	S06s	14-9	0630	Sun	524 871 6 42465 46683 90715 42738 80515 51992(?)	USB	(Danix)
20050	S06s	14-9	0640	Sun	524 871 6 42465 46683 90715 42738 80515 51992(?)	USB	(Danix)
5760	S06s	16-9	0700	Tue	374 206 5 96320 36793 53038 76342 15009 206 5 00000	USB	(AB)
6930	S06s	16-9	0715	Tue	374 206 5 96320 36793 53038 76342 15009 206 5 00000	USB	(AB)
7425	S06s	16-9	0730	Tue	427 913 5 40613 77249 40678 17976 21816	USB	(Danix)
7425	S06s	16-9	0730	Tue	427 913 5 40613 77249 40678 17976 21816 913 5 00000	AM	(AB)
11560	S06s	16-9	0740	Tue	427 913 5 40613 77249 40678 17976 21816 913 5 00000	AM	(AB)
11560	S06s	16-9	0740	Tue	427 913 5 40613 77249 40678 17976 21816	USB	(Danix)
11635	S06s	16-9	0800	Tue	352 901 6 96111 10544 98003 68909 45279 43828 901 6 00000. Mixing with HM01	USB	(AB)
10420	S06s	16-9	0810	Tue	352 901 6 96111 10544 98003 68909 45279 43828 901 6 00000	USB	(AB)
6410	S06s	16-9	1000	Tue	893 240 5 57024	USB	(HFD)
7340	S06s	16-9	1010	Tue	893	USB	(HFD)
6190	S06s	16-9	1100	Tue	754 203 6 50747 14952 54165 89912 66186 54629	USB	(Danix)
7230	S06s	16-9	1110	Tue	754 203 6 50747 14952 54165 89912 66186 54629	USB	(Danix)
6464	S06s	16-9	1500	Tue	537 421 6 48325 70092 55645 65687 26581 54411	USB	(Danix)
6464	S06s	16-9	1500	Tue	537 421 6 48325 70092 55645 65687 26581 54411 421 6 00000	USB	(AB)
7242	S06s	16-9	1510	Tue	537 421 6 48325 70092 55645 65687 26581 54411	USB	(Danix)
7242	S06s	16-9	1510	Tue	537 421 6 48325 70092 55645 65687 26581 54411 421 6 00000	USB	(AB)
11854	S06s	17-9	0730	Wed	745 926 8 38281 10541 58010 29865 72431 47406 78476 88394	USB	(Danix)
12140	S06s	17-9	0740	Wed	745 926 8 38281 10541 58010 29865 72431 47406 78476 88394	USB	(Danix)
13365	S06s	17-9	1000	Wed	729 853 6 99888 43289 91404 15654 98311 96338	USB	(Danix)
14505	S06s	17-9	1010	Wed	729 853 6 99888 43289 91404 15654 98311 96338	USB	(Danix)
7620	S06s	17-9	1230	Wed	967 210 5 53966 78692 60169 84146 86154 210 5 00000	USB	(AB)
8105	S06s	17-9	1240	Wed	967 210 5 53966 78692 60169 84146 86154 210 5 00000	USB	(AB)
12952	S06s	18-9	0900	Thu	167 432 5 63857 26163 74746 03985 16294	USB	(Danix)
13565	S06s	18-9	0910	Thu	167 432 5 63857 26163 74746 03985 16294	USB	(Danix)
11540	S06s	18-9	1000	Thu	635 210 7 55884 33013 37367 45959 36512 35122 44335 210 7 00000	AM	(AB)
12415	S06s	18-9	1200	Thu	425 876 9 30444 32514 88194 32767 43154 94129 94045 31921 44372	USB	(Danix)
14212	S06s	18-9	1210	Thu	425 876 9 30444 32514 88194 32767 43154 94129 94045 31921 44372	USB	(Danix)
14212	S06s	18-9	1210	Thu	425 876 9 30444 32514 88194 32767 43154 94129 94045 31921 44372 876 9 00000	H3E	(Avare)
9078	S06s	19-9	0600	Fri	934 216 5 85519 91225 54337 46277 47984	USB	(Danix)
9078	S06s	19-9	0600	Fri	934 216 5 85513 91225 54337 46277 47984 216 5 00000	AM	(AB)
7795	S06s	19-9	0600	Fri	196 482 5 48959 81463 48493 36045 48252 482 5 00000	USB	(AB)
10148	S06s	19-9	0610	Fri	934 216 5 85519 91225 54337 46277 47984	USB	(Danix)
8695	S06s	19-9	0610	Fri	196 482 5 48959 81463 48493 36045 48252 482 5 00000	USB	(AB)
10148	S06s	19-9	0610	Fri	934 216 5 85513 91225 54337 46277 47984 216 5 00000	AM	(AB)
12140	S06s	19-9	0930	Fri	516 932 7 84979 42009 85110 48702 30628 95711 37905	USB	(Danix)
13515	S06s	19-9	0940	Fri	516 932 7 84979 42009 85110 48702 30628 95711 37905	USB	(Danix)

Freq.	Enigma	Date	UTC	Day	Remarks	Mode	Ctrb
22185	S06s	21-9	0630	Sun	524 831 6 35783 46225 89247 80943 31792 49794	USB	(Danix)
20050	S06s	21-9	0640	Sun	524 831 6 35783 46225 89247 80943 31792 49794	USB	(Danix)
7425	S06s	23-9	0730	Tue	427 913 5 40613 77249 40678 17976 21816	USB	(Danix)
11560	S06s	23-9	0740	Tue	427 913 5 40613 77249 40678 17976 21816	USB	(Danix)
6190	S06s	23-9	1100	Tue	754 203 6 50747 14952 54165 89912 66186 54629	USB	(Danix)
7230	S06s	23-9	1110	Tue	754 203 6 50747 14952 54165 89912 66186 54629	USB	(Danix)
6464	S06s	23-9	1500	Tue	537 421 6 48325 70092 55645 65687 26581 54411	USB	(Danix)
7242	S06s	23-9	1510	Tue	537 421 6 48325 70092 55645 65687 26581 54411	USB	(Danix)
11854	S06s	24-9	0730	Wed	745 926 8 38281 10541 58010 29865 72431 47406 78476 88394	USB	(Danix)
12140	S06s	24-9	0740	Wed	745 926 8 38281 10541 58010 29865 72431 47406 78476 88394	USB	(Danix)
13365	S06s	24-9	1000	Wed	729 853 6 99888 43289 91404 15654 98311 96338	USB	(Danix)
14505	S06s	24-9	1010	Wed	729 853 6 99888 43289 91404 15654 98311 96338	USB	(Danix)
7620	S06s	24-9	1230	Wed	967 210 5 53966	USB	(HFD)
8105	S06s	24-9	1240	Wed	967	USB	(HFD)
12952	S06s	25-9	0900	Thu	167 432 5 63857 26163 74746 03985 16294	USB	(Danix)
13565	S06s	25-9	0910	Thu	167 432 5 63857 26163 74746 03985 16294	USB	(Danix)
12415	S06s	25-9	1200	Thu	425 876 9 30444 32514 88194 32767 43154 94129 94045 31921 44372	USB	(Danix)
14212	S06s	25-9	1210	Thu	425 876 9 30444 32514 88194 32767 43154 94129 94045 31921 44372	USB	(Danix)
9078	S06s	26-9	0600	Fri	934 216 5 85519 91225 54337 46277 47984	USB	(Danix)
10148	S06s	26-9	0610	Fri	934 216 5 85519 91225 54337 46277 47984	USB	(Danix)
12140	S06s	26-9	0930	Fri	516 932 7 84979 42009 85110 48702 30628 95711 37905	USB	(Danix)
13515	S06s	26-9	0940	Fri	516 932 7 84979 42009 85110 48702 30628 95711 37905	USB	(Danix)
22185	S06s	28-9	0630	Sun	524 831 6 35783 46225 89247 80943 31792 49794	USB	(Danix)
20050	S06s	28-9	0640	Sun	524 831 6 35783 46225 89247 80943 31792 49794	USB	(Danix)
9220	S06s	29-9	0830	Mon	371 371 371 00000	USB	(AB)
8270	S06s	29-9	0840	Mon	371 371 371 00000	USB	(AB)
6930	S06s	30-9	0715	Tue	374 374 374 00000	USB	(AB)
7425	S06s	30-9	0730	Tue	427 427 427 00000	AM	(AB)
7425	S06s	30-9	0730	Tue	427 427 427 00000	USB	(Danix)
11560	S06s	30-9	0740	Tue	427 427 427 00000	USB	(Danix)
11560	S06s	30-9	0740	Tue	427 427 427 00000	AM	(AB)
11635	S06s	30-9	0800	Tue	352 352 352 00000	USB	(AB)
6190	S06s	30-9	1100	Tue	754 754 754 00000	USB	(Danix)
7230	S06s	30-9	1110	Tue	754 754 754 00000	USB	(Danix)
6464	S06s	30-9	1500	Tue	537 537 537 00000	USB	(Danix)
7242	S06s	30-9	1510	Tue	537 537 537 00000	USB	(Danix)
5358	S11a	2-9	0455	Tue	328/36 Vnimanie 62810 90447 67173 … 61318 90713 90014	USB	(Danix)
7317	S11a	2-9	0915	Tue	484/00	USB	(HFD)
7317	S11a	2-9	0915	Tue	484/00 new schedule	USB	(Danix)
9960	S11a	2-9	1020	Tue	426/00	USB	(Danix)
5815	S11a	3-9	1020	Wed	221/00	USB	(Danix)
4016	S11a	3-9	1055	Wed	370/00 konets	USB	(AB)
4016	S11a	3-9	1955	Wed	370/00	USB	(HFD)
4016	S11a	3-9	1955	Wed	370/00	USB	(Danix)
5358	S11a	5-9	0455	Fri	328/36 Vnimanie 62810 90447 67173 … 61318 90713 90014	USB	(Danix)
7317	S11a	5-9	0915	Fri	484/00	USB	(AB)
7317	S11a	5-9	0915	Fri	484/00 new schedule	USB	(Danix)
9960	S11a	5-9	1020	Fri	426/00	USB	(Danix)
4016	S11a	5-9	1955	Fri	370/00	USB	(Danix)
5815	S11a	6-9	1020	Sat	221/00	USB	(Danix)
5815	S11a	6-9	1020	Sat	221/00	USB	(HFD)
5358	S11a	9-9	0455	Tue	320/00	USB	(Danix)
7317	S11a	9-9	0915	Tue	484/00	USB	(AB)
7317	S11a	9-9	0915	Tue	484/00 new schedule	USB	(Danix)
9960	S11a	9-9	1020	Tue	422/34 Vnimanie 80355 78577 90428 … 61745 46390 49151 Vnimanie, rpt msg, konec	USB	(AB)
9960	S11a	9-9	1020	Tue	422/34 Vnimanie 80355 78577 90428 … 61745 46390 49151	USB	(Danix)
5815	S11a	10-9	1020	Wed	221/00	USB	(Danix)
5815	S11a	10-9	1020	Wed	221/00	USB	(AB)
4016	S11a	10-9	1955	Wed	370/00	USB	(Danix)
16112	S11a	11-9	1015	Thu	47#/## weak	USB	(HFD)
5358	S11a	12-9	0455	Fri	320/00	USB	(Danix)

Freq.	Enigma	Date	UTC	Day	Remarks	Mode	Ctrb
7317	S11a	12-9	0915	Fri	484/00 new schedule	USB	(Danix)
9960	S11a	12-9	1020	Fri	422/34 Vnimanie 80355 78577 90428 … 61745 46390 49151	USB	(Danix)
9960	S11a	12-9	1020	Fri	422/35 80355	USB	(HFD)
4016	S11a	12-9	1955	Fri	370/00	USB	(AB)
4016	S11a	12-9	1955	Fri	370/00	USB	(Danix)
5815	S11a	13-9	1020	Sat	221/00	USB	(Danix)
5358	S11a	16-9	0455	Tue	320/00	USB	(Danix)
7317	S11a	16-9	0915	Tue	484/38 Vnimanie 42313 00185 85857 … 11100 52791 24851 new schedule	USB	(Danix)
9960	S11a	16-9	1020	Tue	426/00	USB	(Danix)
14940	S11a	17-9	0715	Wed	382/00	USB	(HFD)
5815	S11a	17-9	1020	Wed	221/00	USB	(Danix)
4016	S11a	17-9	1955	Wed	370/36 Vnimanie 35042 94802 79562 … 05414 94481 12976	USB	(Danix)
16112	S11a	18-9	1015	Thu	475/00	USB	(AB)
5358	S11a	19-9	0455	Fri	320/00	USB	(Danix)
7317	S11a	19-9	0915	Fri	484/38 Vnimanie 42313 00185 85857 … 11100 52791 24851 new schedule	USB	(Danix)
9960	S11a	19-9	1020	Fri	426/00	USB	(Danix)
4016	S11a	19-9	1955	Fri	370/36 Vnimanie 35042 94802 79562 … 05414 94481 12976	USB	(Danix)
5815	S11a	20-9	1020	Sat	221/00	USB	(Danix)
5358	S11a	23-9	0455	Tue	320/00	USB	(Danix)
7317	S11a	23-9	0915	Tue	484/00 new schedule	USB	(Danix)
9960	S11a	23-9	1020	Tue	426/00	USB	(Danix)
5815	S11a	24-9	1020	Wed	229/33 Vnimanie 26211 40412 … 93876 60388 23071	USB	(Danix)
4016	S11a	24-9	1955	Wed	370/00	USB	(Danix)
5358	S11a	26-9	0455	Fri	320/00	USB	(Danix)
7317	S11a	26-9	0915	Fri	484/00 new schedule	USB	(Danix)
9960	S11a	26-9	1020	Fri	426/00	USB	(Danix)
4016	S11a	26-9	1955	Fri	370/00	USB	(Danix)
5815	S11a	27-9	1020	Sat	229/33 Vnimanie 26211 40412 … 93876 60388 23071	USB	(Danix)
5358	S11a	30-9	0455	Tue	320/00	USB	(Danix)
7317	S11a	30-9	0915	Tue	484/00 new schedule	USB	(Danix)
9960	S11a	30-9	1020	Tue	426/00	USB	(Danix)
4625	S28	24-8	1142	Sun	MDZhB 29 535 VIDAM 19 78 36 69	USB	(DJPr)
4625	S28	1-9	1336	Mon	MDZhB 37 704 PARDUS 21 34 96 02	USB	(DJPr)
4625	S28	1-9	1338	Mon	MDZhB 61 447 FAULA 53 24 01 34	USB	(DJPr)
4625	S28	1-9	1711	Mon	MDZhB 98 357 BASYeNNYJ 40 30 72 66 Priyom	USB	(Avare)
4625	S28	1-9	1711	Mon	MDZhB 98 537 BASENNYJ 40 30 72 66	USB	(DJPr)
4625	S28	2-9	1350	Tue	MDZhB 94 574 MANGNETIZM 43 60 80 01	USB	(DJPr)
4625	S28	3-9	1548	Wed	MDZhB 04 259 ZAPARAN 12 27 27 72	USB	(DJPr)
4625	S28	4-9	1321	Thu	MDZhB 33 064 GERUNOK 68 40 89 78	USB	(DJPr)
4625	S28	4-9	1323	Thu	MDZhB 16 162 EKSGORRAN 31 80 92 40	USB	(DJPr)
4625	S28	4-9	1324	Thu	MDZhB 38 120 PASKOIT 77 24 82 09	USB	(DJPr)
4625	S28	4-9	1347	Thu	MDZhB 38 143 GALBAN 84 23 29 62	USB	(DJPr)
4625	S28	8-9	0500		MDZhB unreadable	USB	(DJPr)
4625	S28	8-9	0928		MDZhB 44 553 NEUMNYJ 17 29 31 54	USB	(DJPr)
4625	S28	8-9	1303		MDZhB 79 769 PODSTOChNYJ 26 82 06 66	USB	(DJPr)
4625	S28	10-9	1128	Wed	MDZhB 96 534 KERMICIN 80 73 97 47	USB	(DJPr)
4625	S28	11-9	0517	Thu	MDZhB unreadable	USB	(DJPr)
4625	S28	14-9	1338	Sun	MDZhB 54 429 NARYVNYJ 34 20 77 18 GILTDIYa 11 18 11 93	USB	(DJPr)
4625	S28	15-9	1431	Mon	MDZhB 25 481 SADZhA 21 34 96 02	USB	(DJPr)
4625	S28	15-9	1616	Mon	MDZhB 29 161 NADAVKA 53 24 01 34	USB	(DJPr)
4625	S28	18-9	2225	Thu	MDZhB 47 683 REVMANOL 40 30 72 66	USB	(Arg)
4625	S28	18-9	2308	Thu	MDZhB 32 689 GARDINOL 94 86 63 06	USB	(Arg)
4625	S28	25-9	0640	Thu	MDZhB 61 486 LAZhEK 43 60 80 01	USB	(DJPr)
4625	S28	25-9	0915	Thu	MDZhB 86 277 YaGEL' 39 22 85 11	USB	(DJPr)
4625	S28	25-9	1303	Thu	MDZhB nothing more	USB	(Avare)
4625	S28	25-9	1338	Thu	MDZhB 41 638 MARKOFAN 68 40 89 78	USB	(DJPr)
4620	S28	25-9	1710	Thu	Buzzer //4625 kHz. Also at 1718 and 1828 UTC	USB	(Avare/Nico/AB)
4625	S28	25-9	1710	Thu	Buzzer //4620 kHz. Also at 1718 and 1828 UTC	USB	(Avare/Nico/AB)
5448	S30	1-9	0353	Mon	Zh7NZh, YMA5, VTH3, AGDT, 'U1B, OSOG, BO6C, F56Shch, 9GSA, ZhBZU	USB	(DJPr)
5448	S30	1-9	1332	Mon	8S1Shch 07 420 PAGLINOK 40 99 35 77	USB	(DJPr)

Freq.	Enigma	Date	UTC	Day	Remarks	Mode	Ctrb
5448	S30	2-9	1343	Tue	8S1Shch 91 182 ESTOVAL 32 45 61 22	USB	(DJPr)
3756	S30	2-9	1659	Tue	CI9V, ZhSK4, 5FSShch, DEAY, DMC3, 49FT, C2ZA, LI27, INNC, ShchGJP	USB	(DJPr)
5448	S30	4-9	1319	Thu	8S1Shch 66 620 BANANNIK 43 21 92 01	USB	(DJPr)
5448	S30	4-9	1348	Thu	8S1Shch 35 800 MONTREL 86 27 89 80	USB	(DJPr)
3756	S30	4-9	1638	Thu	ShchT-30, CIHS, Z7PM, 'O6P, JH'J, S7ZhG, Z'1B, CI9V, ZhSK4, 5FSShch	USB	(DJPr)
5448	S30	5-9	1337	Fri	F61N, 37CN, MUDR, 7VNShch, Zh7NZh, YMA5, VTH3, AGDT, 'U1B, OSOG	USB	(DJPr)
3756	S30	8-9	1642		V2MZ SB7Z 8MUO TUZR 5J7Shch 37Shch' N1DU 53OB 78MV 12CI	USB	(DJPr)
5448	S30	9-9	0352	Tue	78AJ P'HShch 6EHB CP3' ShchT3O CIHS Z7PM 'O6P JH'J S7ZhG	USB	(DJPr)
3756	S30	9-9	1901	Tue	ShchGJP 8CShchJ TZLM FY5E F61N Z7CN MUDR 7VNShch Zh7NZh YMA5	USB	(DJPr)
5448	S30	10-9	1250	Wed	8S1Shch 59 701 GRADINKA 21 48 67 11	USB	(DJPr)
3756	S30	10-9	1559	Wed	VKY1 HCLF 61HZh ZBIL L7O5 NLCE SB7Z 8MUO TUZR 5J7Shch	USB	(DJPr)
3756	S30	13-9	1720	Sat	CIHS Z7PM 'O6P JH'J S7ZhG Z'1B CI9V ZhSK4 5FSShch DEAY	USB	(DJPr)
3756	S30	14-9	1554	Sun	Z7CN MUDR 7VNShch Zh7NZh YMA5 VHT3 AGDT 'U1B OSOG BO6C	USB	(DJPr)
3756	S30	15-9	1617	Mon	8S1Shch 02 946 GMINA 41 48 32 94	USB	(DJPr)
5448	S30	16-9	0403	Tue	JH'J S7ZhG Z'1B CI9V ZhSK4 5FSShch DEAY DMC3 49FT C2ZA	USB	(DJPr)
3756	S30	17-9	1727	Wed	V2MZ SB7Z 8MUO TUZR 5J7Shch 27Shch' N1DU 53OB 78MV 12CI	USB	(DJPr)
3756	S30	18-9	1623	Thu	Z'1B CI9V ZhSK4 5FSShch DEAY DMC3 49FT 5J7Shch C2ZA LI27	USB	(DJPr)
3756	S30	18-9	2205	Thu	8S1Shch 36 390 KALIL'ShchIK 60 91 73 28	USB	(DJPr)
3756	S30	18-9	2225	Thu	8S1Shch 71 821 SOSLOVIE 94 65 44 50	USB	(DJPr)
3756	S30	21-9	1719	Sun	6I2Zh ZhD9V CJ5C 42BV 81BR M7KS PMV5 L'GJ TshchSchchS VKY1	USB	(DJPr)
3756	S30	22-9	1739	Mon	ShchT3O CIHS Z7PM 'O6P JH'J S7ZhG Z'1B CI9V ZhSK4 5FSShch	USB	(DJPr)
3756	S30	24-9	1435	Wed	8S1Shch 22 110 STERID 14 38 93 75	USB	(DJPr)
3756	S30	24-9	1644	Wed	L7O5 V'Z' NLCE V2MZ SB7Z 8MUO TUZR 5J7Shch 27Shch' N1DU	USB	(DJPr)
3756	S30	24-9	1830	Wed	53OB 78MV 12CI 79AJ P'HShch 6EHB CP3' ShchT3O CIHS Z7PM	USB	(DJPr)
5448	S30	26-9	0405	Fri	ZhBZU 4RVZ 3VS' DKJ1 6I2Zh ZhD9V CJ5C 42BV 81BR M7KS	USB	(DJPr)
3828	S32	1-9	1713	Mon	Al'fa-45 82 056 RUKOGAS 71 95 50 52 Priyom	USB	(Avare/DJPr)
3828	S32	2-9	1517	Tue	STOROZh-62, YaHTA-94, KURGAN-40, RUZh'E-26, ROSA-64	USB	(DJPr)
3828	S32	2-9	1735	Tue	SLIVA-94, UTES-94, DZhIGIT-46, FONTAN-34, PENZA-07, DUBLER-68, STAZhER-29	USB	(DJPr)
5473	S32	4-9	1313	Thu	ALFA-45 80 949 PRISYaZhNIK 73 49 33 75	USB	(DJPr)
3828	S32	5-9	1740	Fri	STOROZh-62, YaHTA-94, KURGAN-40, RUZh'E-26, ROSA-64	USB	(DJPr)
5473	S32	8-9	1017		ALFA-45 51 077 PARAKChAN 02 85 86 13	USB	(DJPr)
5473	S32	8-9	1021		STOROZh-62 YaHTA-94 KURGAN-40 RUZh'E2-6 ROSA-64	USB	(DJPr)
5473	S32	12-9	1149	Fri	SLIVA-94 UTES-94 DZhIGIT-46 FONTAN-34 PENZA-07 DUBLER-68 STAZhER-29	USB	(DJPr)
3828	S32	12-9	1542	Fri	SLIVA-94 UTES-94 DZhIGIT-46 FONTAN-34 PENZA-07 DUBLER-68 STAZhER-29	USB	(DJPr)
3828	S32	12-9	1727	Fri	STOROZh-62 YaHTA-94 KURGAN-40 RUZh'E-26 ROSA-64 NEVKA-26 OTPOR-89 BIZON-64 KOVBOJ-39 ALEUT-09 LANDYSh-74	USB	(DJPr)
5373	S32	13-9	1014	Sat	STOROZh-62 YaHTA-94 KURGAN-40 RUZh'E-26 ROSA-64 NEVKA-26	USB	(DJPr)
3828	S32	13-9	1739	Sat	STOROZh-62 YaHTA-94 KURGAN-40 RUZh'E-26 ROSA64 NEVKA-26	USB	(DJPr)
3828	S32	13-9	1856	Sat	Test count: 1 2 3 4 5 6 7 8 9 10	USB	(DJPr)
3828	S32	13-9	1859	Sat	Test count: 1 2 3 4 5 6 7 8 9 10	USB	(DJPr)
3828	S32	13-9	1901	Sat	Test count: 1 2 3 4 5 6 7 8 9 10	USB	(DJPr)
3828	S32	13-9	2016	Sat	STOROZh-62 YaHTA-94 KURGAN-40 RUZh'E-26 ROSA-64 NEVKA-26	USB	(DJPr)
5473	S32	14-9	1337	Sun	ALFA-45 17 362 BRIFORUK 29 54 36 64	USB	(DJPr)
5473	S32	15-9	1025	Mon	NEVKA-26 OTPOR-89 BIZON-64 KOVBOJ-39 ALEUT-09 LANDYSh-74	USB	(DJPr)
3828	S32	15-9	1626	Mon	ALFA-45 11 707 BOTVUShKA 27 76 33 89	USB	(DJPr)
3828	S32	15-9	1906	Mon	STOROZh-62 YaHTA-94 KURGAN-40 RUZh'E-26 ROSA-64 NEVKA-26	USB	(DJPr)
3828	S32	16-9	1519	Tue	SLIVA-94 UTES-94 DZhIGIT-46 FONTAN-34 PENZA-07 DUBLER-68 STAZhER-29	USB	(DJPr)
3828	S32	16-9	1904	Tue	STOROZh-62 YaHTA-94 KURGAN-40 RUZh'E-26 ROSA-64 NEVKA-26	USB	(DJPr)
3828	S32	18-9	1740	Thu	STOROZh-62 YaHTA-94 KURGAN-40 RUZh'E2-6 ROSA-64 NEVKA-26	USB	(DJPr)
3828	S32	18-9	2210	Thu	ALFA-45 90 403 DRYaHLYJ 71 33 10 42	USB	(DJPr)
3828	S32	19-9	2229	Fri	ALFA-45 43 236 TREDZhEN 27 10 76 46	USB	(DJPr)
3828	S32	21-9	2114	Sun	OTPOR-89 BIZON-64 KOVBOJ-39 ALEUT-09 LANDYSh-74	USB	(Arg)
5473	S32	22-9	1016	Mon	KURGAN-40 RUZh'E-26 ROSA-64 NEVKA-26 OTPOR-89 BIZON-64 KOVBOJ-39 ALEUT-09 LANDYSh-74	USB	(DJPr)
3828	S32	22-9	1730	Mon	KURGAN-40 RUZh'E-26 ROSA-64 NEVKA-26 OTPOR-89 BIZON-64 KOVBOJ-39 ALEUT-09 LANDYSh-74	USB	(DJPr)
3828	S32	24-9	1639	Wed	ALFA-45 06 783 SEKSTET 86 53 08 44	USB	(DJPr)
5473	S32	25-9	1306	Thu	ALFA-45 33 778 POLINOVKA 69 95 34 43	USB	(DJPr)
5473	S32	25-9	1317	Thu	STOROZh-62 YaHTA-94 KURGAN-40 RUZh'E-26 ROSA-64	USB	(DJPr)

Freq.	Enigma	Date	UTC	Day	Remarks	Mode	Ctrb
5473	S32	26-9	1240	Fri	SLIVA-94 UTES-94 DZhIGIT-46 FONTAN-34 PENZA-07 DUBLER-68 STAZhER-29	USB	(DJPr)
3828	S32	26-9	1504	Fri	ALFA-45 31 497 ENOL 84 42 12 32	USB	(DJPr)
3828	S32	26-9	1519	Fri	SLIVA-94 UTES-94 DZhIGIT-46 FONTAN-34 PENZA-07 DUBLER-68 STAZhER-29	USB	(DJPr)
3828	S32	26-9	1846	Fri	STOROZh-62 YaHTA-94 KURGAN-40 RUZh'E-26 ROSA-64 NEVKA-26	USB	(DJPr)
3828	S32	26-9	2008	Fri	OTPOR-89 BIZON-64 KOVBOJ-39 ALEUT-09 LANDYSh-74	USB	(DJPr)
21002.1	SDN	19-8	1327	Tue	MFA Khartoum wkg embassy Yemen	Pactor-I 100/170	(IARUMS)
21000	SDN	19-8	1329	Tue	MFA Khartoum voice contact with embassy Yemen	USB	(IARUMS)
3580	UM01	11-9	2213	Thu	CQ P 5	CW	(JPL-Sib)
3580	UM01	12-9	0215	Fri	CQ P 5	CW	(JPL-Sib)
3580	UM01	12-9	1027	Fri	CQ P 5	CW	(JPL-Sib)
3580	UM01	12-9	1541	Fri	CQ P 5	CW	(JPL-Sib)
3580	UM01	12-9	1840	Fri	CQ P 5	CW	(JPL-Sib)
3580	UM01	12-9	2054	Fri	CQ P 5	CW	(JPL-Sib)
3580	UM01	14-9	1100	Sun	CQ P 13	CW	(JPL-Sib)
3580	UM01	14-9	1320	Sun	CQ P 13	CW	(JPL-Sib)
3580	UM01	14-9	2215	Sun	CQ P 13	CW	(JPL-Sib)
3580	UM01	15-9	0153	Mon	CQ P 12	CW	(JPL-Sib)
3580	UM01	15-9	0849	Mon	CQ P 9	CW	(JPL-Sib)
3580	UM01	15-9	0931	Mon	CQ P 8	CW	(JPL-Sib)
3580	UM01	15-9	1406	Mon	CQ P 8	CW	(JPL-Sib)
3580	UM01	15-9	2125	Mon	CQ P 4	CW	(JPL-Sib)
3580	UM01	16-9	0141	Tue	CQ P 3	CW	(JPL-Sib)
3580	UM01	16-9	0219	Tue	CQ P 4	CW	(JPL-Sib)
3580	UM01	16-9	0927	Tue	CQ P 9	CW	(JPL-Sib)
3580	UM01	16-9	1417	Tue	CQ P 8	CW	(JPL-Sib)
3580	UM01	16-9	2333	Tue	CQ P 5	CW	(JPL-Sib)
3580	UM01	17-9	1533	Wed	CQ P 10	CW	(JPL-Sib)
3580	UM01	17-9	1642	Wed	CQ P 10	CW	(JPL-Sib)
3580	UM01	17-9	1731	Wed	CQ P 10	CW	(JPL-Sib)
3580	UM01	17-9	1929	Wed	CQ P 10	CW	(JPL-Sib)
3580	UM01	17-9	2359	Wed	CQ P 10	CW	(JPL-Sib)
3580	UM01	18-9	0003	Thu	CQ P 10	CW	(JPL-Sib)
3580	UM01	18-9	0222	Thu	CQ P 11	CW	(JPL-Sib)
3580	UM01	18-9	0838	Thu	CQ P 14	CW	(JPL-Sib)
3580	UM01	18-9	2106	Thu	CQ P 7	CW	(JPL-Sib)
3580	UM01	19-9	1258	Fri	CQ P 5	CW	(JPL-Sib)
3580	UM01	19-9	1339	Fri	CQ P 5	CW	(JPL-Sib)
3580	UM01	19-9	1759	Fri	CQ P 4	CW	(JPL-Sib)
3580	UM01	19-9	2032	Fri	CQ P 4	CW	(JPL-Sib)
3580	UM01	21-9	2043	Sun	CQ P 3	CW	(JPL-Sib)
3580	UM01	21-9	2248	Sun	CQ P 3	CW	(JPL-Sib)
7161	UM01	22-9	1036	Mon	CQ P 7 (weaker than 3580 kHz)	CW	(JPL-Sib)
3580	UM01	22-9	1036	Mon	CQ P 7 //7161 kHz	CW	(JPL-Sib)
7161	UM01	22-9	1158	Mon	CQ P 7 (mostly unreadable) //3580 kHz	CW	(JPL-Sib)
3580	UM01	22-9	1158	Mon	CQ P 7 //7161 kHz	CW	(JPL-Sib)
3580	UM01	22-9	1326	Mon	CQ P 7 //7161 kHz	CW	(JPL-Sib)
7161	UM01	22-9	1326	Mon	CQ P 7 (mostly unreadable) //3580 kHz	CW	(JPL-Sib)
3580	UM01	22-9	1606	Mon	CQ P 7 //7161 kHz	CW	(JPL-Sib)
7161	UM01	22-9	1606	Mon	CQ P 7 (barely audible) //3580 kHz	CW	(JPL-Sib)
3580	UM01	22-9	1810	Mon	CQ P 7	CW	(JPL-Sib)
3580	UM01	22-9	2058	Mon	CQ P 7	CW	(JPL-Sib)
3580	UM01	23-9	0051	Tue	CQ P 7 //7161 kHz	CW	(JPL-Sib)
7161	UM01	23-9	0051	Tue	CQ P 11 //3580 kHz	CW	(JPL-Sib)
7161	UM01	23-9	0051	Tue	CQ P 7 //3580 kHz	CW	(JPL-Sib)
7161	UM01	23-9	0051	Tue	CQ P 7 //3580 kHz	CW	(JPL-Sib)
3580	UM01	23-9	0051	Tue	CQ P 11 //7161 kHz	CW	(JPL-Sib)
3580	UM01	23-9	0051	Tue	CQ P 7 //7161 kHz	CW	(JPL-Sib)
7161	UM01	24-9	0944	Wed	CQ P 11 (//3580 kHz)	CW	(JPL-Sib)
3580	UM01	24-9	0944	Wed	CQ P 11 (//7161 kHz)	CW	(JPL-Sib)
3580	UM01	24-9	1550	Wed	CQ P 10	CW	(JPL-Sib)

Freq.	Enigma	Date	UTC	Day	Remarks	Mode	Ctrb
3580	UM01	24-9	1809	Wed	CQ P 10	CW	(JPL-Sib)
3580	UM01	25-9	0149	Thu	CQ P 9	CW	(JPL-Sib)
3285	UM10	12-9	1849	Fri	Unid 10-mins net: LEQA //3880 kHz	CW	(JPL-Sib)
3880	UM10	12-9	1849	Fri	Unid 10-mins net: LEQA //3285 kHz	CW	(JPL-Sib)
3312	UM10	12-9	1852	Fri	Unid 10-mins net: B4NR	CW	(JPL-Sib)
3880	UM10	18-9	2118	Thu	Unid 10-min net: LEQA	CW	(JPL-Sib)
3880	UM10	19-9	1816	Fri	Unid 10-min net: LEQA	CW	(JPL-Sib)
3285	UM10	21-9	2045	Sun	10-mins net: LEQA	CW	(JPL-Sib)
9065	V02a	1-9	0800	Mon	Tuning at 0752z then into V02a YL/SS 5FGs	AM	(DSch)
7554	V02a	11-9	2004	Thu	YL/SS w/5F grps	LSB	(DSch)
16037	V07	7-9	0300	Sun	661 661 661 000	USB	(Dan/Token)
14637	V07	7-9	0320	Sun	661 661 661 000	USB	(Token)
16037	V07	14-9	0300	Sun	661 661 661 1 682 95 682 95 74123 74425 31941 ... 74202 22273 79315 000 000	USB	(Dan)
14637	V07	14-9	0320	Sun	661 661 661 1 682 95 682 95 74123 74425 31941 ... 74202 22273 79315 000 000	USB	(Dan)
12137	V07	14-9	0340	Sun	661 661 661 1 682 95 682 95 74123 74425 31941 ... 74202 22273 79315 000 000	USB	(Dan)
16037	V07	21-9	0300	Sun	661 661 661 000	USB	(Dan)
14637	V07	21-9	0320	Sun	661 661 661 000	USB	(Dan)
16037	V07	28-9	0300	Sun	661 661 661 000	USB	(Dan)
14637	V07	28-9	0320	Sun	661 661 661 000	USB	(Dan)
7502	V13	24-9	1300	Wed	New Star	AM	(HFD)
8046	VC01	7-9	0950	Sun	Chinese Robot i.p.	USB	(NC)
8046	VC01	7-9	1634	Sun	Chinese Robot i.p.	USB	(AB-HK)
8046	VC01	11-9	0703	Thu	Chinese Robot i.p.	USB	(AB-HK)
8046	VC01	13-9	0710	Sat	Chinese Robot i.p.	USB	(AB-HK)
8046	VC01	16-9	1530	Tue	Chinese Robot i.p.	USB	(NC)
12152	X06	1-9	0731	Mon	Mazielka. Sequence: 432516	USB	(PUK)
18750	X06	1-9	0746	Mon	Mazielka. Sequence: 641523	USB	(PUK)
20675	X06	1-9	0756	Mon	Mazielka. Sequence: 641523	USB	(PUK)
20675	X06	1-9	0756	Mon	Mazielka. Sequence: 164532	USB	(PUK)
20336	X06	2-9	0752	Tue	Mazielka. Sequence: 165423	USB	(PUK)
18206	X06	2-9	0854	Tue	Mazielka. Sequence: 154263	USB	(PUK)
16115	X06	2-9	0905	Tue	Mazielka. Sequence: 154263	USB	(PUK)
20334	X06	2-9	0909	Tue	Mazielka. Sequence: 154263	USB	(PUK)
14875	X06	2-9	0916	Tue	Mazielka. Sequence: 246531	USB	(PUK)
13465	X06	3-9	0828	Wed	Mazielka. Sequence: 362154	USB	(PUK)
18346	X06	3-9	0944	Wed	Mazielka. Sequence: 214356	USB	(PUK)
16115	X06	3-9	1012	Wed	Mazielka. Sequence: 215346	USB	(PUK)
17470	X06	3-9	1014	Wed	Mazielka. Sequence: 216354	USB	(PUK)
17470	X06	3-9	1134	Wed	Mazielka. Sequence: 216354	USB	(PUK)
17468	X06	4-9	0640	Thu	Mazielka. Sequence: 436512	USB	(PUK)
19511	X06	4-9	0711	Thu	Mazielka. Sequence: 314265	USB	(PUK)
14447	X06	4-9	0718	Thu	Mazielka. Sequence: 162543	USB	(PUK)
17470	X06	4-9	1104	Thu	Mazielka. Sequence: 216354	USB	(PUK)
16115	X06	4-9	1114	Thu	Mazielka. Sequence: 215346	USB	(PUK)
17468	X06	4-9	9640	Thu	Mazielka. Sequence: 436512	USB	(Danix)
17470	X06	5-9	0833	Fri	Mazielka. Sequence: 216354	USB	(PUK)
20837	X06	5-9	1000	Fri	Mazielka. Sequence: 645321	USB	(PUK)
12215	X06	5-9	1009	Fri	Mazielka. Sequence: 361245	USB	(PUK)
14824	X06	5-9	1018	Fri	Mazielka. Sequence: 625413	USB	(PUK)
14501	X06	5-9	1019	Fri	Mazielka. Sequence: 361245	USB	(PUK)
10372	X06	8-9	0833		Mazielka. Sequence: 431625	USB	(PUK)
12224	X06	8-9	0931		Mazielka. Sequence: 463125	USB	(PUK)
12177	X06	8-9	1241		Mazielka. Sequence: 364152	USB	(PUK)
13420	X06	9-9	0759	Tue	Mazielka. Sequence: 534216	USB	(PUK)
14675	X06	9-9	1019	Tue	Mazielka. Sequence: 612534	USB	(PUK)
13510	X06	9-9	1029	Tue	Mazielka. Sequence: 612534	USB	(PUK)
12100	X06	9-9	1038	Tue	Mazielka. Sequence: 612534	USB	(PUK)
18591	X06	10-9	0721	Wed	Mazielka. Sequence: 435621	USB	(PUK)
10814	X06	10-9	0733	Wed	Mazielka. Sequence: 412356	USB	(PUK)

Freq.	Enigma	Date	UTC	Day	Remarks	Mode	Ctrb
18245	X06	10-9	0839	Wed	Mazielka. Sequence: 134265	USB	(PUK)
18660	X06	10-9	1044	Wed	Mazielka. Sequence: 621543	USB	(PUK)
14944	X06	10-9	1110	Wed	Mazielka. Sequence: 621543	USB	(PUK)
16153	X06	11-9	0815	Thu	Mazielka. Sequence: 153624	USB	(PUK)
9106	X06	11-9	1544	Thu	Mazielka. Sequence: 564213	USB	(PUK)
14863	X06	12-9	0956	Fri	Mazielka. Sequence: 615243	USB	(PUK)
9076	X06	12-9	1540	Fri	Mazielka. Sequence: 215346	USB	(PUK)
16242	X06	14-9	0802	Sun	Mazielka	USB	(LG2)
18750	X06	15-9	0737	Mon	Mazielka. Sequence: 641523	USB	(PUK)
11081	X06	15-9	0802	Mon	Mazielka. Sequence: 125643	USB	(tING)
15687	X06	15-9	0827	Mon	Mazielka. Sequence: 154263	USB	(PUK)
18206	X06	15-9	0918	Mon	Mazielka. Sequence: 246531	USB	(PUK)
11462	X06	16-9	0752	Tue	Mazielka. Sequence: 165423	USB	(PUK)
14631	X06	17-9	0833	Wed	Mazielka. Sequence: 362154	USB	(PUK)
13465	X06	17-9	0844	Wed	Mazielka. Sequence: 362154	USB	(PUK)
14650	X06	17-9	1435	Wed	Mazielka. Sequence: 215346	USB	(PUK)
14970	X06	17-9	1448	Wed	Mazielka. Sequence: 216354	USB	(PUK)
14446	X06	18-9	0728	Thu	Mazielka. Sequence: 162543	USB	(PUK)
18575	X06	18-9	1228	Thu	Mazielka. Sequence: 352416	USB	(PUK)
16320	X06	19-9	0626	Fri	Mazielka. Sequence: 241563	USB	(PUK)
14720	X06	19-9	0635	Fri	Mazielka. Sequence: 241563	USB	(PUK)
14570	X06	19-9	0832	Fri	Mazielka. Sequence: 324615	USB	(PUK)
18197	X06	19-9	0922	Fri	Mazielka. Sequence: 645321	USB	(PUK)
12215	X06	19-9	1054	Fri	Mazielka. Sequence: 361245	USB	(PUK)
13510	X06	23-9	1020	Tue	Mazielka. Sequence: 612534	USB	(PUK)
14944	X06	24-9	1056	Wed	Mazielka. Sequence: 621543.	USB	(Danix)
9106	X06	25-9	1537	Thu	Mazielka. Sequence: 564213	USB	(PUK)
13510	X06	26-9	0615	Fri	Mazielka. Sequence: 216435	USB	(PUK)
19511	X06	26-9	0818	Fri	Mazielka. Sequence: 314265	USB	(PUK)
15828	X06	26-9	1000	Fri	Mazielka. Sequence: 256134	USB	(PUK)
11075	X06	26-9	1915	Fri	Mazielka. Sequence: 145632	USB	(PUK)
14414	X06	27-9	1812	Sat	Mazielka. Sequence: 145632	USB	(PUK)
12105	X06	28-9	1740	Sun	Mazielka. Sequence: 145632	USB	(tING)
9163	X06	28-9	1756	Sun	Mazielka. Sequence: 145632	USB	(Danix)
10359	X06b	20-9	0514	Sat	Mazielka. Sequence: 1-6	USB	(Dan)
10359	X06b	20-9	0516	Sat	Mazielka. Sequence: 1-6	USB	(Dan)
11576	XPA	2-9	1900	Tue	232-group message: 03460 00229 24364 88251 87080 ...	MFSK-20/10Bd	(MPJ)
10476	XPA	2-9	1920	Tue	232-group message: 03460 00229 24364 88251 87080 ...	MFSK-20/10Bd	(MPJ)
9276	XPA	2-9	1940	Tue	232-group message: 03460 00229 24364 88251 87080 ...	MFSK-20/10Bd	(MPJ)
10359	XPA	3-9	0600	Wed	msg	MFSK-20/10Bd	(HFD)
11559	XPA	3-9	0620	Wed	msg	MFSK-20/10Bd	(HFD)
13559	XPA	3-9	0640	Wed	msg	MFSK-20/10Bd	(HFD)
11576	XPA	4-9	1900	Thu	03460 00229 24364 88251 87080 ... 45015 73770 6671777777777777 (end corrupt all 3 skeds)	MFSK-20/10Bd	(MPJ)
10476	XPA	4-9	1920	Thu	03460 00229 24364 88251 87080 ... 45015 73770 6671777777777777 (end corrupt all 3 skeds)	MFSK-20/10Bd	(MPJ)
9276	XPA	4-9	1940	Thu	03460 00229 24364 88251 87080 ... 45015 73770 6671777777777777 (end corrupt all 3 skeds)	MFSK-20/10Bd	(MPJ)
11576	XPA	9-9	1900	Tue	msg	MFSK-20/10Bd	(HFD)
10476	XPA	9-9	1920	Tue	msg	MFSK-20/10Bd	(HFD)
9276	XPA	9-9	1940	Tue	msg	MFSK-20/10Bd	(HFD)
11576	XPA	11-9	1900	Thu	542 542 542 000 02866 00001 00000 10140	MFSK-20/10Bd	(Dan)
10476	XPA	11-9	1920	Thu	542 542 542 000 02866 00001 00000 10140	MFSK-20/10Bd	(Dan)
9276	XPA	11-9	1940	Thu	542 542 542 000 02866 00001 00000 10140	MFSK-20/10Bd	(Dan)
10359	XPA	13-9	0600	Sat	355 355 355 000 06635 00001 00000 10140	MFSK-20/10Bd	(AB)
11559	XPA	13-9	0620	Sat	355 355 355 000 06635 00001 00000 10140	MFSK-20/10Bd	(AB)
13559	XPA	13-9	0640	Sat	355 355 355 000 06635 00001 00000 10140	MFSK-20/10Bd	(AB)
10359	XPA	17-9	0600	Wed	355 355 355 1 06396 00181 11047 ... 68663 63814 27305	MFSK-20/10Bd	(AB)
11559	XPA	17-9	0620	Wed	355 355 355 1 06396 00181 11047 ... 68663 63814 27305	MFSK-20/10Bd	(AB)
13559	XPA	17-9	0640	Wed	355 355 355 1 06396 00181 11047 ... 68663 63814 27305	MFSK-20/10Bd	(AB)
10359	XPA	20-9	0600	Sat	355 355 355 1 06396 00181 11047 27305	MFSK-20/10Bd	(Dan)
10359	XPA	27-9	0600	Sat	355 355 355 000 07813 00001 00000 10140	MFSK-20/10Bd	(AB)

Freq.	Enigma	Date	UTC	Day	Remarks	Mode	Ctrb
11559	XPA	27-9	0620	Sat	355 355 355 000 07813 00001 00000 10140	MFSK-20/10Bd	(AB)
11576	XPA	30-9	1900	Tue	542 542 542 1 00171 22179 16145 29114 ... 25685 90216 72044 52905 50612	MFSK-20/10Bd	(MPJ)
10476	XPA	30-9	1920	Tue	542 542 542 1 00171 22179 16145 29114 ... 25685 90216 72044 52905 50612	MFSK-20/10Bd	(MPJ)
9276	XPA	30-9	1940	Tue	542 542 542 1 00171 22179 16145 29114 ... 25685 90216 72044 52905 50612	MFSK-20/10Bd	(MPJ)
21857	XPA2	2-9	0700	Tue	msg	MFSK-16/20Bd	(HFD)
21857	XPA2	2-9	0700	Tue	Barely audible	MFSK-16/20Bd	(AB)
19557	XPA2	2-9	0720	Tue	msg	MFSK-16/20Bd	(HFD)
19557	XPA2	2-9	0720	Tue	Barely audible	MFSK-16/20Bd	(AB)
18057	XPA2	2-9	0740	Tue	msg	MFSK-16/20Bd	(HFD)
18057	XPA2	2-9	0740	Tue		MFSK-16/20Bd	(AB)
14538	XPA2	2-9	1800	Tue	96-group message: 00640 00093 31868 89452 31615 ... 21665 22122 29676 19298 67170	MFSK-16/20Bd	(MPJ)
13528	XPA2	2-9	1820	Tue	96-group message: 00640 00093 31868 89452 31615 ... 21665 22122 29676 19298 67170	MFSK-16/20Bd	(MPJ)
12138	XPA2	2-9	1840	Tue	96-group message: 00640 00093 31868 89452 31615 ... 21665 22122 29676 19298 67170	MFSK-16/20Bd	(MPJ)
16167	XPA2	5-9	1900	Fri	msg	MFSK-16/20Bd	(HFD)
16167	XPA2	5-9	1900	Fri	01874 00125 10732 68642 07758 ... 15379 03217 84557 12777 15633	MFSK-16/20Bd	(MPJ)
14663	XPA2	5-9	1920	Fri	msg	MFSK-16/20Bd	(HFD)
14663	XPA2	5-9	1920	Fri	01874 00125 10732 68642 07758 ... 15379 03217 84557 12777 15633	MFSK-16/20Bd	(MPJ)
13923	XPA2	5-9	1940	Fri	msg	MFSK-16/20Bd	(HFD)
13923	XPA2	5-9	1940	Fri	01874 00125 10732 68642 07758 ... 15379 03217 84557 12777 15633	MFSK-16/20Bd	(MPJ)
16167	XPA2	6-9	1900	Sat	01874 00125 10732 68642 07758 ... 15379 03217 84557 12777 15633	MFSK-16/20Bd	(MPJ)
14663	XPA2	6-9	1920	Sat	01874 00125 10732 68642 07758 ... 15379 03217 84557 12777 15633	MFSK-16/20Bd	(MPJ)
13923	XPA2	6-9	1940	Sat	01874 00125 10732 68642 07758 ... 15379 03217 84557 12777 15633	MFSK-16/20Bd	(MPJ)
16147	XPA2	7-9	1500	Sun	msg	MFSK-16/20Bd	(HFD)
14947	XPA2	7-9	1520	Sun	msg	MFSK-16/20Bd	(HFD)
14447	XPA2	7-9	1540	Sun	msg	MFSK-16/20Bd	(HFD)
14538	XPA2	7-9	1800	Sun	msg	MFSK-16/20Bd	(HFD)
13538	XPA2	7-9	1820	Sun	msg	MFSK-16/20Bd	(HFD)
12138	XPA2	7-9	1840	Sun	msg	MFSK-16/20Bd	(HFD)
21857	XPA2	9-9	0700	Tue	00628 00121 66056 ... 05572 45184 22063	MFSK-16/20Bd	(AB)
19557	XPA2	9-9	0720	Tue	00628 00121 66056 ... 05572 45184 22063	MFSK-16/20Bd	(AB)
18057	XPA2	9-9	0740	Tue	00628 00121 66056 ... 05572 45184 22063	MFSK-16/20Bd	(AB)
10250	XPA2	11-9	0940	Thu	2 messages: 05597 00036 20228 ... 56077 34446 01200 00000 00000 83303 00222 64446 ... 67450 38464 87565 64110	MFSK-16/20Bd	(Avare/FYM/toto)
21857	XPA2	12-9	0700	Fri	09744 00001 00000 10140	MFSK-16/20Bd	(AB)
19557	XPA2	12-9	0720	Fri	09744 00001 00000 10140	MFSK-16/20Bd	(AB)
18057	XPA2	12-9	0740	Fri	09744 00001 00000 10140	MFSK-16/20Bd	(AB)
16167	XPA2	12-9	1900	Fri	07623 00097 02365 ... 98238 71230 65644	MFSK-16/20Bd	(AB/Dan)
14663	XPA2	12-9	1920	Fri	07623 00097 02365 ... 98238 71230 65644	MFSK-16/20Bd	(AB/Dan)
13923	XPA2	12-9	1940	Fri	07623 00097 02365 ... 98238 71230 65644	MFSK-16/20Bd	(AB/Dan)
14663	XPA2	13-9	1920	Sat	msg	MFSK-16/20Bd	(CS)
21857	XPA2	16-9	0700	Tue	09744 00001 00000 10140	MFSK-16/20Bd	(AB)
19557	XPA2	16-9	0720	Tue	09744 00001 00000 10140	MFSK-16/20Bd	(AB)
16167	XPA2	20-9	1900	Sat	00733 00109 97784 65364	MFSK-16/20Bd	(Dan)
14663	XPA2	20-9	1920	Sat	00733 00109 97784 65364	MFSK-16/20Bd	(Dan)
13923	XPA2	20-9	1940	Sat	00733 00109 97784 65364	MFSK-16/20Bd	(Dan)
16167	XPA2	26-9	1900	Fri	05788 0001 00000 10140	MFSK-16/20Bd	(Dan)
14663	XPA2	26-9	1920	Fri	05788 0001 00000 10140	MFSK-16/20Bd	(Dan)
13923	XPA2	26-9	1940	Fri	05788 0001 00000 10140	MFSK-16/20Bd	(Dan)
19557	XPA2	30-9	0720	Tue	09744 00001 00000 10140 ??? 08633 00000 000 00130 ???	MFSK-16/20Bd	(AB)
18057	XPA2	30-9	0740	Tue	09744 00001 00000 10140 ??? 08633 00000 000 00130 ???	MFSK-16/20Bd	(AB)
13538	XPA2	30-9	1820	Tue	04240 00065 60113 10080 39767 ... 84731 21612 31555 26990 39851 ...	MFSK-16/20Bd	(MPJ)
12138	XPA2	30-9	1840	Tue	04240 00065 60113 10080 39767 ... 84731 21612 31555 26990 39851 ...	MFSK-16/20Bd	(MPJ)
8313	XSL	4-9	2039	Thu	Japan Maritime Self-Defense Force	QPSK 1500	(PPA)
8587.7	XSL	12-9	1801	Fri	Japan Maritime Self-Defense Force	QPSK 1500	(PPA)

CONTRIBUTORS

AAI	Antonio Anselmi, Italy	JPL-FNL	JPL via remote rx Finland
AB	Ary Boender, Netherlands	JPL-HK	JPL via remote rx Hong Kong
AB-FNL	Ary Boender via remote rx Finland	JPL-J	JPL via remote rx Japan
AB-HK	Ary Boender via remote rx Hong Kong	JPL-Sib	JPL via remote rx Siberia
AnEur	Anonymous Europe	JU	Jay Updike, W. Europe
Arg	Argonn	KK2	Kristian K, Central Europe
AtB	Attu Bosch, AK, USA	LG2	Les G, UK
Avare	Avare	linkz	Linkz, S.E. France
BCI	Bruno Casula, Italy	MCO	Mike Chace-Ortiz, PA, USA
Brit	Britzel	MPJ	Jim, SW England
CS	Chris Smolinksi, USA	N2UHC	N2UHC
Dan	Daniel, Argentina	NC	Nick Carrigan, WA, USA
Danix	Danix111, Poland	Nico	Nico, near Paris, France
DJPr	DJpeter via Radioscanner/Priyom	PPA	Peter Poelstra, Netherlands
DM-HOL	Dave moonlight0551, via remote rx The Netherlands	PUK	Peter, UK (via Enigma 2000)
DSch	Don Schimmel, USA	RHA	Robin Harwoord, AUS
EW	Eddy Waters, Australia	S1	Sierra1
Faux	Faux, Ireland	SFNY	Shawn, Flushing, NY, USA
FYM	FYM, The Netherlands	tING	Thomas, Central Europe
GHn	Gary Hagermann, UK	Token	T!, CA, USA
Gwr	Gwraspe	Tom	Tom, Lincs, UK
HFD	Hans-Friedrich Dumrese, Germany	Topol	Tony, UK
IARUMS	IARU Monitoring Service	toto-NL	toto CZ via remote rx Twente
JPL	JPL, Ontario, Canada	WP3	Wolfgang Palmberger

Relevant mailing lists:

Utility DXers Forum (utility and spooks related logs)
To become a member go to http://groups.yahoo.com/group/udxf/ and follow the instructions.
Website: http://www.udxf.nl

Spooks (spooks related info and logs)
Go to the web interface http://mailman.qth.net/mailman/listinfo/spooks to subscribe. Fill in the form and follow the instructions that will be mailed to you.

HF Underground (radio related including numbers stations)
Forum: http://www.hfunderground.com/board/