

670	27364	92836	09428	61208	74982	36498	32764	81276	01
986	40932	70987	32123	49817	26346	81287	65491	87364	81
721	75654	55656	12737	72727	72727	91918	63473	67867	70
723	87629	37677	32612	53498	71296	28756	18276	98716	87
7269	76329	74698	76857	98670	27601	56701	57601	73648	15
591	87364	87265	96710	27630	12673	84769	28743	98127	59
58	63298	75698	27465	87326	49876	28376	81273	98615	62
667	87432	74328	78674	29867	32867	67867	86786	43286	432
667	68768	68763	34234	34238	68768	62342	48273	48768	234
936	98432	32432	86743	43286	43286	43286	43286	43286	432
743	86743	86743	39867	32867	86743	43286	43286	43243	867
741	86743	86743	86743	86743	86743	86743	86743	86743	435
543	98798	98754	98754	98754	98754	29867	67543	67986	867
76	87698	69876	87698	69876	87612	12341	34867	86798	632
867	43298	65656	56756	56123	32143	14321	32143	14321	321
81	02787	58765	76587	58765	76587	58765	76587	58756	765
75875	36543	54365	36543	54365	36543	54365	36543	54365	543

# *Numbers & Oddities*

## *a.k.a. The Spooks Newsletter*

*Edition #182, November 2012*

Editor: Ary Boender email: [ary@luna.nl](mailto:ary@luna.nl)

Check for previous newsletters, info, sound samples and databases also:

**NUMBERS & ODDITIES** <http://www.numbersoddities.nl>

**SPY NUMBERS ONLINE DATABASE** <http://www.spynumbers.com/numbersDB>

**UTILITY DXERS FORUM (UDXF)** <http://www.udxf.nl>

**START PAGE** <http://home.luna.nl/~ary>

**New Designator HM01:**  
Cuban Mixed Mode of V02a and SK01. See the SK01/HM01 section.  
Recording on the N&O website

---

## VOICE STATIONS



### E06

16200 kHz, 02-11, 0600 UTC. Recording on the N&O website.

507 369 124  
43214 28127 40115 44444 65972 70229 **229** (stutter) 90903 06968  
54482 71711 99522 88811 21024 08894 97150 82320 49309 23453  
82780 10466 69206 14806 78854 87287 35080 50547 77229 16477  
62427 68097 42661 77549 02510 68095 65994 60554 59653 16658  
84256 35260 80917 15472 09819 65746 72813 02626 35837 06348  
24754 88942 10149 39876 43944 51136 94810 44072 31368 30533  
53472 97214 53590 10807 33764 58827 90035 73141 36902 86417  
60451 52285 91672 74195 62229 41910 75014 24698 72280 22737  
46359 89257 93145 11840 87933 38262 48034 56590 68206 47138  
54474 21659 70666 08986 31268 **28** (stutter) 55119 09820 18427  
43940 43692 27344 14790 46728 48734 39192 63004 11466 84794  
51590 36552 92359 31877 84356 08524 99847 42148 73190 06806  
95317 07283 75184 85392 66393 28656 88496  
369 124 00000

Note the 44444 sequence. That doesn't happen often  
After ca 57 secs you can hear a Windows XP sound  
The transmission had a few hick-ups (red groups)

---

16200/18200 kHz, 01-11 & 02-11, 0600/0700 UTC:

507 369 124  
43214 28127 40115 44444 65972 70229 90903 06968 54482 71711  
99522 88811 21024 08894 97150 82320 49309 23453 82780 10466  
69206 14806 78854 87287 35080 50547 77229 16477 62427 68097  
42661 77549 02510 68095 65994 60554 59653 16658 84256 35260  
80917 15472 09819 65746 72813 02626 35837 06348 24754 88942  
10149 39876 43944 51136 94810 44072 31368 30533 53472 97214  
53590 10807 33764 58827 90035 73141 36902 86417 60451 52285  
91672 74195 62229 41910 75014 24698 72280 22737 46359 89257  
93145 11840 87933 38262 48034 56590 68206 47138 54474 21659  
70666 08986 31268 55119 09820 18427 43940 43692 27344 14790  
46728 48734 39192 63004 11466 84794 51590 36552 92359 31877  
84356 08524 99847 42148 73190 06806 95317 07283 75184 85392  
66393 28656 88496  
369 124 00000

9300 kHz, 28-11, 1600 UTC:

842 842 842 ...  
Testing, only callup, interruptions, noises, out around 1620 UTC.

---

12207 kHz, 29-11, 0940 UTC: Mix of two msgs.

E06 with two messages in a (long?) transmission between 0930 – 0950 UTC. At 0930 UTC message: 509 416 23, message ends (with 00000) . After that 509 calls again, with around 0940 a mistake: the first group (34395) for the recipient is transmitted while the recipient (783) and amount of groups (25) were not given. It apparently takes the operator / 'deejay' some seconds to correct his mistake. Thus, 2nd message: 509 783 25

---

4760 kHz, 02-11 & 16-11, 2130 UTC:

472 274 15  
64738 46374 36194 37075 47389 27112 64729 64830 64388 13846  
64739 37194 37400 64832 53511  
274 15 00000

---

4836 kHz, 01-11, 2030 UTC:

321 123 15  
63846 27391 03728 92753 14830 34560 17493 37294 27483 53859  
26483 18403 36296 35297 10911  
123 15 00000

---

4760 kHz, 02-11, 2130 UTC:

462 264 15  
64738 64738 46374 46374 36194 36194 37075 37075 47389 47389  
27112 27112 64729 64729 64830 64830 64388 64388 13846 13846  
64739 64739 37194 37194 37400 37400 64832 64832 53511 53511  
264 15 00000



Russian spy trawler SERGEI MAKAREVICH. Picture by Heb. <http://commons.wikimedia.org/wiki/User:Heb>



## E07

7724 kHz, 07-11, 2000 UTC: 798 798 798 000  
 6924 kHz, 07-11, 2020 UTC: 798 798 798 000  
 5864 kHz, 07-11, 2100 UTC: 815 815 815 000  
 5164 kHz, 07-11, 2121 UTC: 815 815 815 000  
 6777 kHz, 08-11, 2110 UTC: 744 744 744 000  
 5449 kHz, 08-11, 2131 UTC: 744 744 744 000  
 3622 kHz, 14-11, 1820 UTC: 154 22222 (nothing else)  
 6924 kHz, 12-11, 2020 UTC: 698 698 698 000  
 5449 kHz, 15-11, 2130 UTC: 744 744 744 000  
 5864 kHz, 21-11, 2100 UTC: 815 815 815 000  
 6982 kHz, 21-11, 1820 UTC: 199 199 199 000  
 6777 kHz, 22-11, 2110 UTC: 644 644 444 000  
 5449 kHz, 22-11, 2130 UTC: 644 644 444 000  
 5864 kHz, 28-11, 2100 UTC: 815 815 815 000  
 5164 kHz, 28-11, 2120 UTC: 815 815 815 000  
 4564 kHz, 28-11, 2140 UTC: 815 815 815 000  
 6777 kHz, 29-11, 2110 UTC: 744 744 744 000  
 5449 kHz, 29-11, 2130 UTC: 744 744 744 000

5146/5846/6846 kHz, 15-11, 0530/0550/0610 UTC:

188 1 33633 101 53  
 51966 91365 84040 73069 45055 01771 79243 56940 00604 12545  
 55415 39086 56024 69899 28532 58181 29598 74885 98684 07810  
 45634 37505 29481 51973 75676 99142 61803 25574 98032 30269  
 90875 90903 82700 07949 59694 81799 91436 54246 60142 65299  
 15221 19232 62971 53964 71456 03975 84558 24494 84406 52083  
 93252 22581 96870  
 000 000

One late submission from October. 10244 kHz, 24-10, 1322 UTC:

037 037 037 1 4041 27  
 68764 71158 48422 45561 54922 65607 97475 61726 78267 33387  
 16438 61168 12852 43898 26277 14786 07756 02734 30467 67379  
 32209 53079 99427 42425 34339 14842 71524  
 000 000

5864/5164/4564 kHz, 14-11, 2100/2120/2140 UTC:

815 815 815 1 33633 101 53  
 51966 91365 84040 73069 45055 01771 79243 56940 00604 12545  
 55415 39086 56024 69899 28532 58181 29598 74885 98684 07810  
 45634 37505 29481 51973 75676 99142 61803 25574 98032 30269  
 90875 90903 82700 07949 59694 81799 91436 54246 60142 65299  
 15211 19232 62971 53964 71456 03975 84558 24494 84406 52083  
 93252 22581 96870  
 000 000

20841/18741/1744/ kHz, 30-11, 0800/0820/0840 UTC:

874 1 728 69  
 13685 10470 71509 07746 31196 95452 99051 77482 27609 61764  
 21981 44769 44410 79240 59641 75190 94265 74886 60897 75100  
 33126 04769 11864 43898 48321 09293 51127 85355 59840 76358  
 03100 95960 51167 74150 92197 86956 84608 93741 46920 03876  
 20919 30328 36009 40585 11558 61278 59420 19666 83034 07659  
 26435 17265 16648 95433 77774 26321 76481 69853 83638 42438  
 98688 58063 64934 34413 43854 32735 47054 43328 54689  
 000 000

6924/5824 kHz, 26-11, 2020/2040 UTC:

798 1 124 49  
 62867 23327 20454 49758 13850 84819 49631 75684 62676 33309  
 43738 62767 91042 21829 53727 50819 34073 40460 21110 69196  
 46568 74387 31938 46086 82978 94005 08321 19472 69300 87856  
 77661 04214 51097 40064 60331 49487 72854 14789 37962 54165  
 80655 76773 06023 77878 02829 22472 42960 16643 79052  
 000 000



## E11/ E11a/ E11c

6923 kHz, 02-11, 1710 UTC, E11a

953 21 Attention  
 53204 77833 74662 25448 15501 63957 45717 90504 74759 80042  
 38579 65390 10496 18277 88250 22763 54038 09915 99912 16582  
 87378

Attention, rpt msg, out

14410 kHz, 02-11, 1112 UTC, E11a

952/31 Attention  
 96513 11863 14096 36007 48536 20477 97020 13619 37400 49541  
 14771 19791 19774 99573 76065 66859 92830 88040 90974 09108  
 42712 32064 35631 08543 42262 14851 53414 92307 44824 23676  
 41929

Attention, rpt msg, Out

E11 8091 kHz, 06-11, 1045 UTC: 469/00  
 E11 15632 kHz, 12-11, 1540 UTC: 228/00  
 E11c 4909 kHz, 13-11, 2000 UTC: 757/0100/00  
 E11c 6923 kHz, 13-11, 1925 UTC: 758/0000/00  
 E11 5082 kHz, 15-11, 1730 UTC: 416/00  
 E11c 6923 kHz, 20-11, 0700 UTC: 758/0000/00  
 E11c 4909 kHz, 20-11, 2000 UTC: 757/0100/00  
 E11 15632 kHz, 21-11, 1155 UTC: 718/00  
 E11 5082 kHz, 22-11, 1730 UTC: 416/00  
 E11 5082 kHz, 26-11, 0450 UTC: 416/00  
 E11a 6923 kHz, 26-11, 1710 UTC: 957/30 A 22418 33597 ....  
 E11 10800 kHz, 27-11, 1045 UTC: 576/00  
 E11 8091 kHz, 27-11, 1045 UTC: 576/00  
 E11 8091 kHz, 28-11, 1155 UTC: 469/00.  
 E11 15632 kHz, 28-11, 1155 UTC: 718/00  
 E11 15632 kHz, 29-11, 1155 UTC: 718/00  
 E11c 4909 kHz, 27-11, 2000 UTC: 757/2200/00

7317 kHz, 12-11 & 15-11, 0820 UTC:

431/37 Attention

14594 86265 25124 03672 09155 02357 78470 73947 34452 63051  
67778 60915 33100 29937 49202 00891 39618 72263 47420 95240  
26898 28330 16679 30614 09471 51775 61351 07394 71966 24350  
79915 26585 29070 49221 57544 04911 34112  
Attention, msg rptd, out

9446 kHz, 12-11, 0830 UTC:

641/34 Attention

27436 59855 35041 38504 76151 22279 01054 98006 19108 02887  
08561 55849 04569 50801 59420 07990 17124 27497 47934 88773  
82022 26974 26571 53660 42346 11730 60924 88993 37601 32772  
70694 85864 75136 36253  
Attention, msg rptd, out

14410 kHz, 12-11, 1110 UTC:

954/38 Attention

68755 64966 50441 54900 83108 19842 63360 82574 87722 20188  
92178 23791 03062 66440 26450 99455 60189 14221 71327 63425  
47832 59130 36916 59195 40563 52600 29551 94227 70266 03240  
29614 54576 41610 07640 27431 58773 65986 38845  
Attention, msg rptd, out

6923 kHz, 16-11, 1710 UTC:

957/28 Attention

47686 11725 23754 32581 36952 69329 01022 71046 84480 69700  
05006 98144 64613 15598 31201 76767 23133 15944 98035 04118  
45231 93971 40043 19843 08007 78875 81644 79807  
Attention, msg rptd, out

8091 kHz, 14-11, 1045 UTC:

465/31 Attention

43231 91967 71254 20388 07700 29227 69737 43740 09265 44943  
77324 17206 95617 36860 35324 22494 20698 92220 91970 45944  
55424 00624 76701 02207 47022 82897 25290 09377 04970 39267  
69849 Out

9446 kHz, 05-11, 0830 UTC:

647/31 Attention

83236 68252 42958 15162 81527 94782 87551 82120 79245 18708  
31368 80278 05033 76371 75692 83965 08929 52816 93498 45672  
50273 10449 57354 02762 15401 37229 65249 79990 76789 48280  
34758 Out

10800 kHz, 09-11, 0710 UTC:

636/36 Attention

31537 00659 46843 74979 81994 93739 34119 06861 51031 08327  
85310 50778 46282 53801 81399 51761 93969 20564 52632 80692  
58416 94084 74459 91576 90839 91906 22650 70332 69011 86572  
44539 50392 55331 00076 49324 15741 Out

16112 kHz, 13-11 & 15-11, 0745 UTC:

337/36 Attention

36741 40539 15803 88225 87109 21155 65190 53406 41868 06130  
36852 37564 11555 99727 67889 81940 65601 75036 65857 22646  
39145 83549 86537 44959 43393 59490 03199 63694 90922 94855  
68684 36781 60862 78394 03224 44441 Out

E11a 10213 kHz, 13-11, 1810 UTC:

983/10 Attention

29537 44570 74335 79691 36776 41523 10389 87949 34522 21133 Out

E11a 10690 kHz, 13-11, 1400 UTC:

982/10 Attention

72367 86934 00739 70556 57855 44593 70739 72975 44103 48157 Out

E11a 10690 kHz, 17-11, 1400 UTC:

987/10 Attention

42724 15325 08647 79345 74625 18752 35347 36430 98\*85 42340 Out  
(\* = Not Heard)

E11a 10690 kHz, 20-11, 1400 UTC:

981/10 Attention

50147 39717 47018 83561 48246 89104 72762 43261 12033 91668 Out

E11a 5082 kHz, 08-11, 1730 UTC:

410/35 Attention

79606 34256 20202 50981 66373 70248 87181 45581 00352 08392  
61004 99332 26619 97798 89994 45691 49990 00193 95061 95360  
41555 77737 19443 32755 10097 08426 99661 52489 76222 55078  
67425 58577 20940 37386 31778 Out

E11a 6924 kHz, 09-11, 1710 UTC:

957/21 Attention

86927 39747 17105 17312 71518 22466 37362 18909 68325 30619  
41245 57842 33738 57363 41376 06268 56886 60481 80746 55449  
98558 Out

E11a 10800 kHz, 20-11, 1045 UTC:

576/36 Attention

00982 91637 95900 90596 54202 28778 57396 39696 75408 74154  
47105 88051 46283 71231 63312 64997 09324 85172 37922 45472  
57378 12155 65046 20892 07853 32661 52475 59957 76599 92132  
24824 22427 28764 41638 76696 41020 Out

E11a 14410 kHz, 05-11, 1110 UTC:

954/31 Attention

60666 74699 80056 18249 34509 58211 77643 10277 80364 19881  
54480 06009 33560 25705 99996 65307 72081 45790 94347 54255  
91401 89861 92273 22278 84381 84481 47182 49235 58471 98222  
01592 Out

E11a 14410 kHz, 26-11, 1110 UTC:

958/40 Attention

63770 91602 48659 97036 84057 73438 77977 38591 81857 19684  
88469 41927 92325 01418 17016 18851 83671 55731 22422 64664  
31383 08907 01017 27945 79645 47097 94536 80352 10418 49655  
10214 52534 62506 50703 74214 78464 46558 86876 38651 74816  
Out

E11a 15632 kHz, 07-11, 1155 UTC:

710/30 Attention

93405 37037 14041 49452 88292 93961 22594 91417 86402 59098  
10848 10965 38565 89248 98832 05954 60650 08996 19231 95334  
67913 11220 37381 27896 99228 65382 10465 57739 20457 17520  
Out



## E25

6140 kHz, 14-11, 1046 UTC: YL. 128 1069 2101 2150 2613 6514 0162 7951 4766 8296 2150  
 6140 kHz, 18-11, 0946 UTC: Tone, YL, 350 1099 1110 2190 3925 5024 1621 3308 0135 1110  
 6140 kHz, 19-11, 0948 UTC: Tone, music, YL repeating 355 12  
 6140 kHz, 19-11, 0830 UTC: Tone. 701 4311 1340 3101 7604 0514 3292 5825 8887 6896 1340. WinXP sounds  
 6140 kHz, 21-11, 1028 UTC: Tone. 675 5. WinXP "dings"  
 6140 kHz, 21-11, 0845 UTC: Tone. 169 6249 3180 1793 9271 7902 8775 8126  
 6140 kHz, 20-11, 0830 UTC: Tone. 701  
 6140 kHz, 26-11, 0917 UTC: Tone. 950 1041 6211 1530 6029 4004 7584 5020 8624 1361 3713 9346 8457 9645 1530

---



## G06

4467 kHz, 05-11, 1801 UTC: 154 00000 (single 154 group).  
 5463 kHz, 12-11, 0800 UTC: 215 215 215 00000  
 3754 kHz, 12-11, 1605 UTC: tests  
 3754 kHz, 12-11, 1700 UTC: 154 154 154 00000

---

4792 kHz, 09-11 & 23-11, 1930 UTC:

436 703 15  
 34719 37163 14597 14872 48204 37137 05739 32245 12345  
 38173 37498 37590 15824 52876 09823  
 703 15 00000

---

4792 kHz, 08-11, 1930 UTC:

436 703 15  
 34719 37163 14597 14872 48204 37137 05739 32245  
 12345 38173 37498 37590 15824 52876 09823  
 703 15 00000

Note: 4 groups with first 37: 371 371 374 375 and an odd group: 12345. Copied by Avare

---



## G11

4441 kHz, 11-11, 2000 UTC: 262/00  
 6433 kHz, 16-11, 1327 UTC: 599/00  
 4441 kHz, 16-11, 2001 UTC: 565/00  
 4441 kHz, 18-11, 2000 UTC: 565/00  
 4441 kHz, 23-11, 2000 UTC: 262/00  
 6433 kHz, 24-11, 1325 UTC: 599/00  
 4441 kHz, 30-11, 2000 UTC: 565/00

6433 kHz, 11-11, 1755 UTC:

273/38 Achtung  
 23618 60621 06723 80879 92265 81627 08401 11877 77684 75131  
 28909 13795 69224 74556 86035 84686 70325 60812 24147 53503  
 37977 17139 19865 01535 95819 94310 53351 72005 25491 09993  
 05345 63151 85604 47941 22375 45776 62958 47481  
 Ende

---





## S06

A selection of S06 & S06s logs.  
See also our Logs Section.

4452 kHz, 03-11, 2130 UTC: 314 314 314 00000  
9824 kHz, 07-11, 0915 UTC: 328 328 328 00000  
5118 kHz, 17-11, 2030 UTC: 314 314 314 00000  
3626 kHz, 17-11, 2100 UTC: 416 416 416 00000  
4452 kHz, 17-11, 2130 UTC: 314 314 314 00000  
4792 kHz, 23-11, 1831 UTC: Test "12375978"  
3192 kHz, 26-11, 1900 UTC: 349 349 349 00000

9824 07/11 0910 S06s H3E 328 00000. In the  
'background' other 'S06s' audible.  
9824 07/11 0910 S06s H3E Mixing with "328"  
weakly "124" could be heard a few times. After  
that the transmitter was switched off. Thus the  
'124' was not a separate signal.

3715 kHz, 12-11, 1350 UTC, copied by Avare.  
Recording on the N&O website

226 226 226 61257 61257 (rptd 2m30s)  
226 226 21257 61257 44444 44444 (sent once)  
61977 (rptd 1m.30s)  
11111 11111  
00000 00000

---

15721 kHz, 14-11, 0400 UTC:

480 480 480 00000  
480 480 480 00000  
480 then off; back with:  
480 480 480 repeated  
480 736 58  
63574 91176 64734 68686 86381 75101 97773 20776 80409 08747 61563  
07672 05313 38801 06608 42227 01994 27953 12253 25634 73748 54377  
52838 21951 77666 62481 20203 14375 24723 57116 63474 47932 11999  
58424 32080 88286 35466 59529 32917 51349 56781 54237 37624 83371  
22518 26945 00884 96222 59273 21951 75702 87520 22518 26945 00884  
96222 59273 21951  
736 58 00000

8420 kHz, 12-11, 1300 UTC: 831 954 6 78452 13215 79804 56327 89512 33102 954 6 00000  
10635 kHz, 12-11, 1310 UTC: 831 954 6 78452 13215 79804 56327 89512 33102 954 6 00000  
13565 kHz, 15-11, 0930 UTC: 167 284 5 10597 23521 47660 92883 69901 284 5 00000  
11780 kHz, 16-11, 0930 UTC: 516 903 7 54146 66941 40521 88695 78126 54351 23435 903 7 00000  
12570 kHz, 16-11, 0940 UTC: 516 903 7 54146 66941 40521 88695 78126 54351 23435 903 7 00000  
12155 kHz, 22-11, 1200 UTC: 425 971 6 73521 11908 36274 39889 36250 10563 971 6 00000  
10920 kHz, 22-11, 1210 UTC: 425 971 6 73521 11908 36274 39889 36250 10563 971 6 00000  
10265 kHz, 27-11, 0800 UTC: 352 810 6 17266 35490 89127 67881 23993 46571 810 6 00000  
9135 kHz, 27-11, 0810 UTC: 352 810 6 17266 35490 89127 67881 23993 46571 810 6 00000



### Chinese spy trawler

This file is a work of a sailor or employee  
of the U.S. Navy, taken or made during  
the course of the person's  
official duties. As a work of the U.S.  
federal government, the image is in the  
public domain.



## S11a

12530 kHz, 12-11, 1015 UTC:

471/36 Vnimanie

42951 29884 64227 47786 07743 97226 14175 01539 47300 30378

69333 23172 95128 36769 90301 19015 82142 71976 44740 92823

73116 30711 65896 68849 29921 62784 36395 32580 55325 62960

77449 46141 74278 11024 40489 22341

Vnimanie, msg rptd, konec

6433 kHz, 03-11, 1021 UTC: 331/00

7504 kHz, 07-11, 0915 UTC: 282/00

9610 kHz, 16-11, 1020 UTC: 426/00

12531 kHz, 27-11, 1015 UTC: 475/00

6433 kHz, 07-11 & 10-11, 1020 UTC:

224/38 Vnimanie

27352 29935 26913 41473 62855 86589 03774 78725 29555 68965

73908 09743 71755 54632 26041 96595 81975 29685 43170 64133

30053 34967 46860 08749 89612 99920 03981 09665 60333 23567

71038 60073 55797 55214 17825 53641 02425 37688

Vnimanie, msg rptd, konec



## S21

3323//3823 kHz, 06-11, 1841 UTC: 323 000

3323//3823 kHz, 13-11, 1842 UTC: 323 000



## S28 - The Buzzer

Mode: USB

Frequency: 4625 kHz

05-11, 1356 UTC: MDZhB 46 912 LAREN 26 91 91 38

11-11, 1329 UTC: MDZhB 82 812 BARVENA 74 92 76 94

12-11, 0356 UTC: MDZhB 92 410 KORPORATsIYA 29 04 38 18

12-11, 0938 UTC: MDZhB 50 969 KARBITKA 37 99 98 12

12-11, 0939 UTC: MDZhB 33 123 KARBATOKS 50 49 53 83

17-11, 0700 UTC: MDZhB 03801 PARASTIKh 0711 64

18-11, 1335 UTC: MDZhB 21 522 ShERSTEED 09 31 33 70 KERNER 32 90 84 77

18-11, 1342 UTC: MDZhB 89 984 BARANETc 04 52 16 01 PARAL'DEGA 93 20 77 17

27-11, 1802 UTC: MDZhB 95 651 KIRACIP 40 13 17 23

27-11, 1805 UTC: MDZhB 05 249 CIPEHH?Y 76 50 28 87

28-11, 1436 UTC: MDZhB 42 767 VIRALA 76 04 02 13

28-11, 1438 UTC: MDZhB 33 995 LIPUNETS 29 77 82 68

4525 kHz, 06-11, 0715 UTC: Buzzer on 4525 and 4625 kHz

4625 kHz, 06-11, 0715 UTC: Buzzer on 4525 and 4625 kHz

9050 kHz, 06-11, 0550 UTC: Buzzer on 2nd harmonic of 4525 kHz

9250 kHz, 06-11, 0457 UTC: Buzzer on 2nd harmonic of 4625 kHz

Since October 12<sup>th</sup> S28 appeared on a large number of frequencies. One can only guess why. Mistakes? Probably one or two. Also 3 harmonics but the others are most likely parasitic out of band emissions of +/- 40 kHz from the main frequency 4625 kHz.

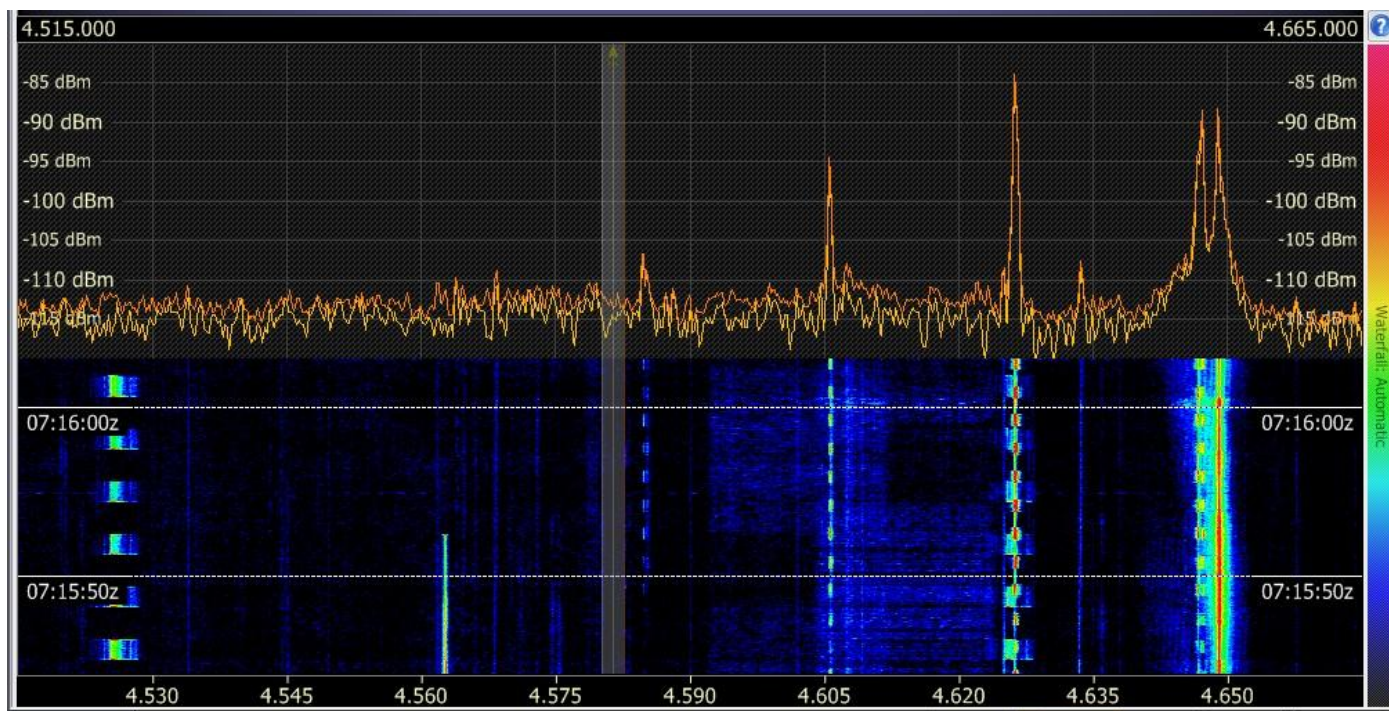
Frequencies:

Main transmissions on 4525, 4622, 4625, 4680, 7834 kHz.

Harmonics 9250 (4625 x 2), 13875 (4625 x 3) and 9050 (4525 x 2).

Further parasitic emissions on 4585, 4665, 4705, etc. +/- 40 kHz apart.

On 6 November the buzzer appeared again on 2 different frequencies. First reported by Speaker on Radioscanner.ru at 0550 UTC. Avare sent me this screen dump that shows the buzzer on both frequencies..



### S30 - The Pip

Modes: CW (Pip), USB (messages)

Frequencies: 3756 kHz (night), 5448 kHz (day)

3756 kHz, 12-11, 0356 UTC: 8S1Shch 51 351 SMEHOTA 72 90 78 69 priyom

3756 kHz, 28/11, 1736 UTC: dlya TUZR 5Y7Shch 27Shch N1DU 43OB 78NV 'NSV YG'Z 12CHI 79AY



### S32 - Squeaky Wheel

Mode: USB

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

12-11, 0944 UTC: Squeaky Wheel on 3758//3794/3828 kHz. Copied by Avare.





## **S6930**

Frequency: 6930 kHz

Mode: USB

6930 kHz, 03-11, 1347 UTC: Katok-65 36 538 PROKHOd 95 27 95 83 (Msg repeated on the next day. Very unusual)

6930 kHz, 04-11, 0132 UTC: Katok-65 36 538 PROKHOd 95 27 95 83

6930 kHz, 27-11, 1228 UTC: Katok-65 55673 BUMAGA 66 38 85 44

---



## **Other Russian military stations**

Frequency: various

Mode: USB / voice

**RMv** 4542 kHz, 02-11, 1749 UTC: Russian Mil. "68" calling "09" and "28" calling "09"  
4542 kHz, 02-11, 1820 UTC: Russian Mil. Conversation about electronic items  
4760 kHz, 02-11, 2038 UTC: Russian Mil. Test count 123456789 ends with 123456  
2713 kHz, 03-11, 1812 UTC: Russian Mil. "Pole-91"  
2713 kHz, 03-11, 1817 UTC: Russian Mil. "Vyborg-2" and "Salma-81"  
4435 kHz, 07-11, 2009 UTC: Russian Mil. Magnit to Meteor. Respond, Meteor. I hear you well. priyom  
3809 kHz, 20-11, 1902 UTC: Russian Mil. Izba-74 wkg Gudron-90, Agat-99

---



## **UMv**

### **Ukrainian military**

Mode: USB (voice)

4605.0 kHz, 08-11, 1848 UTC: Ukrainian Mil. (tentative) Shkoda-49 wkg Vishnya-46

2745.0 kHz, 10-11, 2004 UTC: Ukrainian Mil. (tentative) Shkoda-49, ya Vishnya-46, priyom (same as 4605 kHz on 8-11)

3889.5 kHz, 19-11, 1830 UTC: Ukrainian Mil. Mikron-83 is calling Muza-97, Konvoj-34, Tarif-95, in Ukrainian.

---



## **V13 - New Star Broadcasting Station**

### **星星廣播電台 Xīngxīng guǎngbò diàntái**

New schedules per 14 October.

Station #3: 7688 kHz, 0500 and 0600 UTC.

Station #4: 7654 kHz, 0700 and 0800 UTC en 7688 kHz, 1200 and 1300 UTC.

7688 kHz, 2-11, 0700 UTC: V13 having problems. Started at 0701 without tune and switched off after a few words. This transmission should be on 7654 at this time but I did not hear it there either.

---



## V16

14123 kHz, 02-11, 1510 UTC  
 14123 kHz, 02-11, 1516 UTC  
 14123 kHz, 02-11, 1519 UTC  
 9766 kHz, 16-11, 1428 UTC  
 9982 kHz, 12-11, 1430 UTC  
 9982 kHz, 12-11, 1439 UTC  
 9982 kHz, 12-11, 1450 UTC

9982 kHz transmissions:

Message consists of repeating: X X X Y Y Z Z, ending with 'zai jian' (= goodbye)

X = 'san yao liu' = 316

Y = 'kuai dian fa bu diao' = 'does not come through/over'

Z = 'bu shi' (= 'not') or 'pu shi' (= 'not'), very likely not or 'wu shi' (= 54)

Language is Mandarin Chinese. I asked a Chinese friend and a sinologist for transcriptions. The outcome of this was the following: '316, doesn't come over, not good', at the end 'goodbye'.



## V24

4900 kHz, 30-11, 1530 UTC: Weak, bad audio and low mod depth. Sending 5 character groups.



## VC01 - Chinese Robot

### Chinese Air Defense

Modes: USB and LSB

The station changes its frequencies frequently. Known frequencies:

3036, 3749, 3837, 4075, 4258, 4343, 4410, 4422, 4427, 4480, 4530, 4580, 5195, 5232, 5288, 5303, 5328, 5330, 5393, 5592, 5700, 5802, 5832, 6209, 6479, 6771, 6840, 6858, 6860, 6949, 6960, 7090, 7351, 7608, 7684, 7726, 7739, 7744, 7756, 7770, 7792, 7864, 7865, 7880, 7890, 7924, 8000, 8025, 8170, 9000, 9169, 9192, 9290, 9340, 10508 kHz.

6771 kHz, 04-11, 1125 UTC + 1321 UTC

6771 kHz, 22-11, 1326 UTC

6771 kHz, 23-11, 1154 UTC + 1552 UTC



Soviet civilian space research ship SSOCS Kosmonaut Yuri Gagarin. Nice antennas !!

This Image was released by the United States Navy with the ID DN-SN-90-01052

## MORSE STATIONS



### **MX** **Russian Military beacons**

#### Current cluster frequencies:

3594, 4558, 5154, 7039, 8495, 10872, 13528, 16332, 20048 kHz

#### Other frequencies:

L 6917.5, 8497.8 kHz

V 3658, 4150, 6809, 6928, 7027.5 kHz

R 5466 kHz (seldom reported these days)

W 5835, 8162 kHz (Air Force)

#### Cluster beacon slots:

.7 "D", Sevastopol

.8 "P", Kaliningrad

.9 "S", Severomorsk

.0 "C", Moscow

.1 "A", Astrakhan

.2 "F", Vladivostok

.3 "K", Petropavlovsk Kamchatskiy

.4 "M", Magadan

#### Reported beacons and channel markers.

European Cluster Beacons: D, P, S, C, A, L

Asian Cluster Beacons: F, K, M

Channel markers: V - 3335 kHz



### **M01**

6261 kHz, 10-11, 1500 UTC:

197 (R) 111 111 30 30 ==

88672 88672 12264 12264 39112 39112 68256 68256 02410 02410

00867 00867 53119 53119 14200 14200 68046 68046 88395 88395

94831 94831 45333 45333 75004 75004 26279 26279 72147 72147

27854 27854 50174 50174 70357 70357 52557 52557 14722 14722

72460 72460 36432 36432 32426 32426 77998 77998 15246 15246

69535 69535 69667 69667 35075 35075 38256 38256 17833 17833

== 111 111 30 30 0 0 0



### **M03**

5358 kHz, 24-11, 1535 UTC.

4828 kHz, 14-11, 1115 UTC: 650/00 == 000

5358 kHz, 17-11, 1535 UTC: 798/00 == 000

4828 kHz, 22-11, 1316 UTC: "VVV VVV"

4828 kHz, 22-11, 1320 UTC: 437/00 == 000

790/31 ==

11030 59598 01641 13798 84625 68877 29451 40383 49623 86914

39510 82596 73379 68209 49675 96461 57743 96503 88180 95141

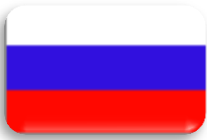
21801 36148 24995 26641 95076 97446 76029 58428 40439 29745

28066 ==

790/31 ==

Message repeated ==

000



## M12

10343/9264/8116 kHz, 02-11, 1800/1820/1840 UTC:

124 124 124 1 3928 83  
 65315 72104 13951 85155 65736 58341 57741 75900 62358 25000  
 77720 13629 30777 61315 66282 26937 10314 27343 59656 82466  
 28177 34810 75380 45395 65450 81334 82372 80794 95176 20710  
 84651 53316 07044 92851 20384 03618 23260 97942 03751 77467  
 62063 65667 17462 31566 53407 96391 21711 10789 05820 92903  
 93469 31330 61303 79656 02709 99736 49753 15934 40774 74807  
 02899 46411 78055 71703 64551 74815 71347 14930 89311 54892  
 02285 42353 07880 76695 60223 68367 85977 52100 65182 20545  
 20394 64150 63031  
 000 000

5429/4629/4029 kHz, 21-11, 2200/2220/2240 UTC:

460 460 460 1 565 69  
 95599 08424 81846 42400 33104 79965 16598 85490 56120 23143  
 13024 50584 56056 47081 32477 44848 84049 25380 81626 80170  
 50734 94414 07800 39939 23446 18771 80528 05958 42374 35061  
 09334 16849 89630 66577 87895 68205 37820 99229 50639 12309  
 81578 94971 55054 89844 51310 24274 75972 57963 95555 91529  
 73918 89718 39102 68774 86102 89542 57042 08440 54469 49515  
 14064 55968 06226 08571 88342 05489 12315 48608 77145  
 000 000

10343 kHz, 13-11, 1830 UTC:

124 124 124 1 4038 59  
 28617 81155 15673 26168 80549 54393 75470 83761 46052 22069  
 25389 13803 57488 63704 06800 91220 92481 49493 66124 04214  
 46093 44607 01357 08639 88615 46661 64022 58080 27991 97138  
 20042 70401 05325 14589 21034 51076 62392 06608 69616 55886  
 36681 17584 70550 72806 82559 30513 83072 95704 35445 25133  
 19164 87089 58792 95146 21429 47677 28722 60885 39575  
 000 000

4629 kHz, 14-11, 2220 UTC: 460 460 460 000

5429 kHz, 28-11, 2200 UTC: 460 460 460 000

4629 kHz, 28-11, 2220 UTC: 460 460 460 000

9176 kHz, 26-11, 1800 UTC:

257 257 257 1 6939 49  
 31507 08438 95755 92920 60428 48055 04574 97072 45678 25947  
 88653 51238 88742 27518 53337 06416 11316 47286 15121 44072  
 97780 69426 10591 40025 50529 94536 81173 83800 55219 77554  
 70286 18575 54253 75173 03269 52920 22640 20317 79979 75048  
 80311 59697 17566 92024 74822 13796 21720 72198 55247 21794  
 39679 11655 86470 08332 60527 04850 66854 26797 06002  
 000 000



## M18

3803 kHz, 17-11, 1957 UTC: 0057 0057 0057 ... (UTC+5)

3803 kHz, 18-11, 2115 UTC: 0215 0215 0215 ... (UTC+5)

3803 kHz, 19-11, 2158 UTC: 0258 0258 0259 ... (UTC+5)

3803 kHz, 22-11, 1936 UTC: 0336 0336 0336 ... (UTC+8)

3803 kHz, 28-11, 1955 UTC: 0055 0055 0055 ... (UTC+5)

3803 kHz, 29-11, 2049 UTC: 0249 0249 0250 ... (UTC+6)



## *M21 + variants*

### *Russian Air Defence Forces*

### *Войска ПВО Voyska PVO*

Id "0": 3322, 4951. 5 kHz

Id "8": 4494, 5752 kHz

Id "9": 6823.5 kHz

4959 kHz, 08-11, 0829 UTC: Plots.

9910656303428 9909657606328 9910656303428 9909657606328 19299091929910

912656376934 517991 091005119912800 51799139100 5119913800 9912656378936

99136563789



## **M32**

### **Russian/CIS/Ukrainian**

### **Military CW Stations**

3594 kHz, 05-11, 2131 UTC: XXX XXX 4R8P 4R8P 34905 ROZUMINNAe 0791 34905 ROZUMINNAe 0791 k  
 12464 kHz, 05-11: RMYZ 05522 wodopaharx 3139 8288 k  
 12464 kHz, 05-11: RFH70 05522 wodopaharx 3139 8288 k  
 12464 kHz, 05-11: RMYZ 09515 spesiwka 5669 7599 k  
 12464 kHz, 05-11: RFH70 09515 spesiwka 5669 7599 k  
 12464 kHz, 05-11: RFH70 21240 labawa 7158 3905 k  
 12464 kHz, 05-11: RMYZ 21240 labawa 7158 3905 k  
 5881 kHz, 17-11, 0702 UTC: XXX XXX REO REO 67539 KDOJKMJ 9874 6829 K  
 14411 kHz, 19-11, 1046 UTC: RDL RDL RDL 05933 51915 05933 51915 05933 51915 K. Followed by msgs in T-600.  
 5286 kHz, 23-11, 0703 UTC: DE ATZ2. ZHC ZPT ZOU ZZJ ZPN ZBQ QSW3 K. OK AS. ATZ2 R ZWJ ZKD ZBS ZWS ZKN ZBB QSU1  
 Q?T = QSU6 K. OK AS. ATZ2 RPT AL ATZ2 RPT. AA PZQOZ K. BK RPT K RPT. AA PZQOZ K  
 4565 kHz, 24-11, 1125 UTC: XXX XXX GQV6 GQV6 35431 PROIZNOSHENIE 6658 0025 7410 K (Unusual 3 groups after the  
 code word)  
 7789 kHz, 26-11, 0928 UTC: XXX XXX WEGI WEGI 09638 ma\_nie (?) 0795 5817 MANDOLIN 4339 4000 K

---



## **M32a**

### **Russian Navy**

### **Voyenno-Morskoy Flot Rossii**

Sorry, only a couple of transcripts this month. See our Logs Section for the Russian Naval logs.

4079 kHz, 26-11, 1730 UTC.

Russian Navy Kaliningrad with various messages.

i.p. "... PUNKT NAWIP 013 1555UARTA 26201 ROLIW SKAGERRAK OMEONX SWETÄQEGO ZNAKA WEKKER 58 TIRE 42 TÖK 9S  
 0 1 TIRE 09 ZK 5W IE SEJSTWUET AR"

Russian Navy Kaliningrad (RMP) clg RHO62:

RHO62 RHO62 RHO62 DE RMP RMP QYT4 QSX 4326  
 RHO62 RHO62 RHO62 DE RMP RMP QYT4 QSX 4326 AR

Russian Navy Kaliningrad (RMP) message to general call REO:

REO REO REO REO DE RMP RMP QTC 83IO 86 26 2T12 831WSEM SUDAM  
 DEJSTWUÛSHIE PRIP KALININGRAD NA 270085I HHRX 2012 RDD 20EO1 GOD 160 85SSS 22 55 1 1 W26 127 137 148 149 159  
 DEJSTWUÛSHIE PRIP PETERBURG NA 270006ISHHRX 2012 SSS 0EHSSS234 248 67 282TÖ0 291 75 23 357 358 2012 RDS11  
 194 195 110 53 54 173 183 211 222 223 226 232 253 265 267 274 275 289 292 293 294 295 312 E1HT 316 318 324 333 336  
 341 343 344 348 349 T50 351 354 355 356 = (message repeated)  
 REO REO REO DE RMP RMP QTC 83 86 26 2T12 831= SEM SUDA  
 DEJSTWUÛSHIE PRIP KALININGRAD NA 2 000 ISHRX 2912 GOD 955SSS50 955S S 2 65 111 26 27 137 148 149 159  
 DEJSTWUÛSHIE PRIP PETERBURG NA 27005ISHHRX 202 SSS545SSS 4 48 267 289 29556 323 357 358 20EGOD 101 H5565 118  
 53 154 173 183 211 2 223 22B232 253 265 267 274 275 289 292 2 3 294 295 312 314 316 18 324 333 336 341 343 344 348  
 349 350 351 35355 356 AR

5883 kHz, 22-11, 0741 UTC: RMU RMU RMU 69210 07818 69210 07819 69210 06818 (repeated) AR

5883 kHz, 22-11, 0720 UTC: REO REO REO DE RMP QTC 55 16 22 1120 855 = SML = OPFWEQENIE NR 428 TORMOWOE  
 PREDUPREVDENIE PO RAJONV 4 UVNOM WOM WETRE 12 TIRE 15 MS SOHRANETSL AR

---





**M32b**  
**Russian Naval Aviation**  
**Aviatsiya Voenno-morskogo Flota Rossii**

Sorry, no naval round-up due to severe time restrictions this month.  
See our Logs Section for the Russian Naval Aviation logs.

---



**M32c**  
**Russian Air Force**  
**Voyenno-vozdushnye sily Rossii**

Sorry, no air force round-up due to severe time restrictions this month.  
See our Logs Section for the Russian Air Force logs.

---



**M14**  
**M45**

Remco sent us the following remarks. Your comments are greatly appreciated.

A link between M14 and M45 ?

Having heard and recorded M45 (13/11 1802z) and M14 (13/11 1820z) with good signals for the first time, the striking resemblance of the 'sound' of their CW tones attracted my attention.

Modes of operation of M14 and M45 are H2A, being full carrier USB (H) with 'digital information' using a subcarrier (i.e. the tone, 2) and telegraphy (A). Messages have perfect spacing (within 10 ms accurate) between words and characters. Measured CW speeds of M14 and M45 are 15 and 10 wpm respectively (M14 having ~80 and M45 ~115 ms/tick).

It was the resemblance of this, and thus 'the sound', which tempted me to make a screenshot of the spectral impact of both stations (figs. 1 and 2).

Figure 1. Screenshot of M14, sharing the spectrum 'in harmony' with S28. Tone frequency is ~1000 Hz.

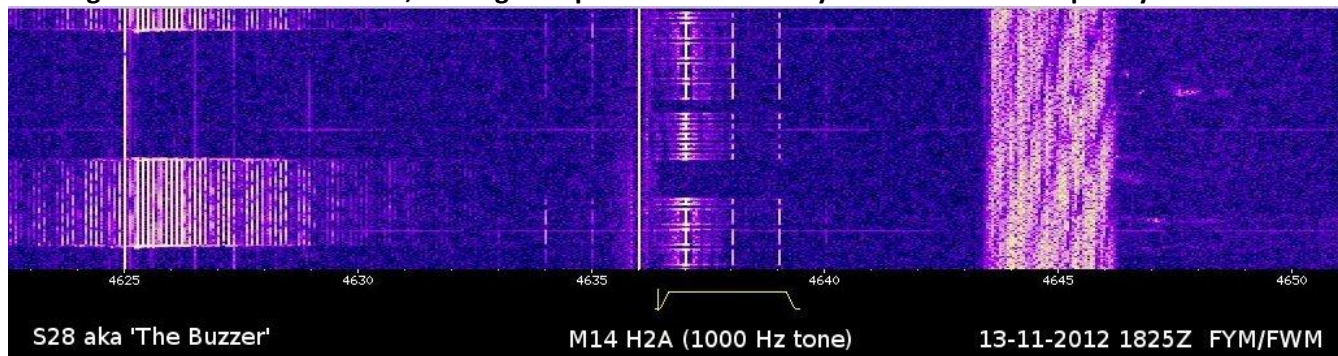
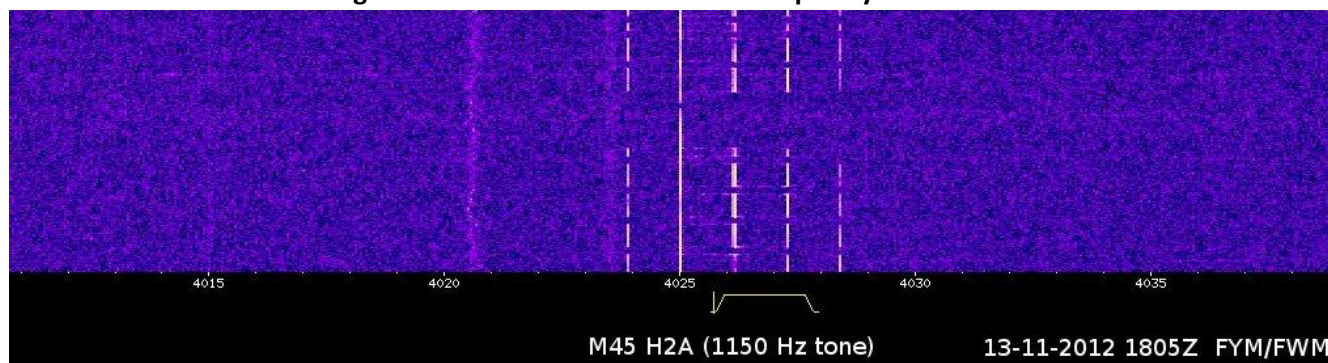


Figure 2. Screenshot of M45. Tone frequency is ~1150 Hz.



In figures 1 and 2 it can be clearly seen that the envelope itself contains harmonic distortion or the distortion is a result of over non linearity somewhere in the transmitter (e.g. too strong modulation). Although further study is necessary, I postulate that M14 and M45 have the same equipment manufacturer.



***M51 / FAV22***  
***8ème Régiment de***  
***Transmission***

4964 kHz, 15-11, 1630 UTC: F9TM: Réseau National Français "CQ de F9TM Réseau National Français à 19:30 loc qrg libre appréciée ... Bsr et 73 à tous", followed by request in English for a clear frequency and gives a list of French amateur callsigns



***M89***  
***Chinese military***

***Stations and strings:***

VVV Q2M Q2M Q2M DE NYZ NYZ QSA? k  
V 7NPE 7NPE 7NPE DE QV5B QV5B  
V DKG6 DKG6 DKG6 DE 3A7D 3A7D  
V GKVZ GKVZ GKVZ DE Q7NW Q7NW  
V RXP7 RXP7 RXP7 DE CZT2 CZT2  
V H2FL H2FL H2FL DE DRV8 DRV8  
V WITN WITN WITN DE GNXG GNXG  
YVG DE LVV5  
YVG DE L44H  
ZKJS ZKJS DE HHOR  
ZKJS DE HHJF  
7K1H DE HHJ.  
... DE AAL5

***Messages:***

JP jotted down a large number of messages / chats. I have included them at the end of the newsletter. No less than NINE pages !! Thanks a million, JP !



## M95

9153 kHz, 16-11, 1434 UTC: Very weak. Sounds hand keyed "DE XSV70"

---



## **MVC03**

Copied by JPL via remote receivers in Australia and Hong Kong. Good catch JP. It has not been reported for quite a while.

8073 kHz, 20-11, 1154 UTC, in traffic; hand sent.

476 AR AR  
7N . P  
NR 1058 CK 194 1120 155. = =  
= =  
3. 3/ 3. 773 T7773 . 54 3.. 4. C3 446 3D3 335 N3D 4. K U ?  
= ? TU. 773 3.4 373 35D ..6 ? 435 .76 3.. 336 N3D 47 NN3 445  
3DU .. 4D3 T ?  
7/3 354 373 .5D ..8 N.3 43. 3DT TTU 4DT 4D3 TUT 773 357  
37U 35. .T6  
AR  
AS U HHAHA 7G GA  
MSG EE NR NR 300 CK 34 35 1120 1606 =  
TAETN N53 TAD N54 7TT TU4 746 .. (Cont'd)

8073 kHz, 21-11, 1142 UTC:

773 TU5 773 356 4.6 .93 345 ...(Cont'd)

---

## VARIOUS MODES



## **SK01 / HM01** **Dirección General de Inteligencia**

We received the following note from Enigma 2000 "Those of you who follow M08a and/or V02a transmissions will be aware of the new Cuban Mixed Mode of V02a and SK01. The salient point of this apparent new mode being six five number group header repeated circa 2m50s then each header group being announced with a variable length SK01 transmission after, meaning the actual message is a hybrid sending of both V02a and SK01. ENIGMA 2000 has allotted a tentative ENIGMA ID to this new mode: HM01 [Hybrid Mode 01]."

Westt1us was one of the first dxers who reported these transmissions. He reported on 17 November the following:

*Now in progress on 5883kHz starting at 0700. It turns out what appears to be a mess up actually appears to be some new format of transmission. This is how it works. It apparently starts with and SK01 transmission and then one group of V2a appears, then another SK01 but the whole thing is actually well choreographed as follows.*

*The V02a without the SK01 repeats as follows 27911 59151 90871 34061 39841 77571 then a short pause then 27911 59151 and so on. Note that all 5FGs end in 1. Then we get the following:*

SK01 lead in tone "27911"  
 23 second SK01 TX "59151"  
 31 second SK01 TX "90871"  
 20 second SK01 TX "34061"  
 20 second SK01 TX "39841"  
 28 second SK01 TX "77571"  
 28 second SK01 TX "27911"  
 23 second SK01 TX "59151"

This goes around 6 times then goes back to just the 7 5FGs for a while then the whole process starts again. Note that the sequence of 5FGs is maintained even with the differing lengths of SK01 TX.

Thanks for the report, Westt1us.

For recordings of HM01 check our website [www.numbersoddities.nl](http://www.numbersoddities.nl)

Recordings are courtesy of KC2TTK and Spectre

## Russian Government & Intelligence

### M42 & X06



#### Modes:

Various digital modes, CW, voice,  
 Tones (Мазелка / Mazielka)



5775 kHz, 31-10, 1815 UTC:	Mazielka. Sequence: 521634
16155 kHz, 03-11, 0910 UTC:	Russian Intel. Mode: FSK 200/1000
14543 kHz, 03-11, 0920 UTC:	Russian Intel. Mode: FSK 200/1000
18468 kHz, 04-11, 0900 UTC:	Russian Intel. Mode: FSK 200/1000
16155 kHz, 04-11, 0910 UTC:	Russian Intel. Mode: FSK 200/1000
14543 kHz, 04-11, 0920 UTC:	Russian Intel. Mode: FSK 200/1000
17429 kHz, 04-11, 1100 UTC:	Russian Intel. Mode: FSK 200/1000
15871 kHz, 04-11, 1110 UTC:	Russian Intel. Mode: FSK 200/1000
13428 kHz, 04-11, 1120 UTC:	Russian Intel. Mode: FSK 200/1000
19305 kHz, 06-11, 1346 UTC:	Russian Diplo. Message on link 70103. Header: 11100 70103 84715 06082 04019 5FGs followed by ops chat in CW "cfm k". Mode: Baudot 75/500
15963 kHz, 07-11, 1247 UTC:	Russian Intel. Mode: FSK 200/1000
20374 kHz, 10-11, 1300 UTC:	Russian Intel. Repeated sequence "00000+++++++162)5761". Mode: FSK 200/500
20374 kHz, 10-11, 1400 UTC:	Russian Intel. Repeated sequence "00000+++++++162)5761". Mode: FSK 200/500
18351 kHz, 10-11, 1320 UTC:	Russian Intel. Repeated sequence "00000+++++++162)5761". Mode: FSK 200/500
16249 kHz, 10-11, 1340 UTC:	Russian Intel. Repeated sequence "00000+++++++162)5761". Mode: FSK 200/500
6826 kHz, 08-11, 2000 UTC:	Russian Intel. Null message 00000+++++++162)5761. Mode: Baudot 1 stb/187,5/500R
8136 kHz, 11-11, 1550 UTC:	Russian Intel. 8 messages of 34 or 35 blocks. Mode: FSK 200/1000
13429 kHz, 11-11, 1120 UTC:	Russian Intel. 10 messages in blocks of 26. Mode: FSK 200/1000
6789 kHz, 13-11, 2200 UTC:	Russian Intel. 9 messages of 4 blocks each. Mode: FSK 200/1000
5158 kHz, 13-11, 2210 UTC:	Russian Intel. 9 messages of 4 blocks each. Mode: FSK 200/1000
4048 kHz, 13-11, 2220 UTC:	Russian Intel. 9 messages of 4 blocks each. Mode: FSK 200/1000
9069 kHz, 13-11, 1700 UTC:	Russian Intel. 34- or 36-block messages. Mode: FSK 200/1000
7648 kHz, 13-11, 1710 UTC:	Russian Intel. 34- or 36-block messages. Mode: FSK 200/1000
10840 kHz, 14-11, 1335 UTC:	Mazielka. Sequence: 134265
4017 kHz, 15-11, 1940 UTC:	Russian Intel. Message repeated 00000+++++++ 162)5761. Mode FSK 200/1000
15871 kHz, 17-11, 1110 UTC:	Russian Intel. Mode: FSK 200/1000



7739 kHz, 16-11, 2200 UTC: Mazielka. Sequence 314265  
 4409.9 kHz, 14-11, 1944 UTC: Russian Gov/Intel. 200 group 5F message with use of =50= group indicator, message header 672 200 14 1914 2413=. Mode: Baudot 1,5 stb/50/500E  
 4970 kHz, 16-11, 0453 UTC: RFT6: Russian Gov. Area of Voronezh. Mode: RUS-ARQ 100/500  
 5185 kHz, 16-11, 0446 UTC: RBW: Russian Gov. Area of Penza. Mode: RUS-ARQ 100/500  
 5325 kHz, 16-11, 0451 UTC: RND79: Russian Gov. Moscow link with RFT6 and RBW. Mode: RUS-ARQ 100/500  
 17429 kHz, 17-11, 1100 UTC: Russian Intel. In progress. Traffic in blocks of 27. Mode: FSK 200/1000  
 6830 kHz, 14-11, 1832 UTC: Russian Gov. Single tone idling into CW: RDI RDI RDI DE RTK RTK QSA?  
 Mode: P1A/OOK + A1A/CW  
 13448 kHz, 18-11, 1530 UTC: Russian Intel. Msgs in blocks of 2. Mode: FSK 200/1000  
 11467 kHz, 18-11, 1540 UTC: Russian Intel. Msgs in blocks of 2. Mode: FSK 200/1000  
 9136 kHz, 18-11, 1550 UTC: Russian Intel. Msgs in blocks of 2. Mode: FSK 200/1000  
 16190 kHz, 21-11, 0940 UTC: Mazielka. Sequence: 123456  
 16190 kHz, 21-11, 0951 UTC: Mazielka. Sequence: 123456  
 9069 kHz, 20-11, 1700 UTC: Russian Intel. 9 messages in blocks of 4. Mode: FSK 200/1000  
 7648 kHz, 20-11, 1710 UTC: Russian Intel. 9 messages in blocks of 4. Mode: FSK 200/1000  
 15963 kHz, 21-11, 1240 UTC: Russian Intel. 10 messages in blocks of 2. Mode: FSK 200/1000  
 6789 kHz, 20-11, 2200 UTC: Russian Intel. 11? messages in blocks of 4. Mode: FSK 200/1000  
 5158 kHz, 20-11, 2210 UTC: Russian Intel. 11? messages in blocks of 4. Mode: FSK 200/1000  
 4048 kHz, 20-11, 2220 UTC: Russian Intel. 11? messages in blocks of 4. Mode: FSK 200/1000  
 5158 kHz, 22-11, 2010 UTC: Russian Intel. Sequences 00000+++++++162)5761. Mode: FKS 200/500  
 20374 kHz, 24-11, 1300 UTC: Russian Intel. 00000+++++++162)5761. Mode: FKS 200/500  
 18351 kHz, 24-11, 1310 UTC: Russian Intel. 00000+++++++162)5761. Mode: FKS 200/500  
 16249 kHz, 24-11, 1320 UTC: Russian Intel. 00000+++++++162)5761. Mode: FKS 200/500  
 16115 kHz, 26-11, 0950 UTC: Mazielka  
 14450 kHz, 27-11, 1214 UTC: Mazielka  
 14450 UTC, 27-11, 1310 UTC: Mazielka



### **XP family**

8123/7523/6823 kHz, 01-11, 1900/1920/1940 UTC: 158 158 158 000 (R) 03198 00001 00000 10144  
 8123/7523/6823 kHz, 13-11, 1900/1920/1940 UTC: 158 158 158 1 (R) long message



### **North Korean diplomatic stations**

23133.5 kHz, 21-11, 0617 UTC: MFA Pyongyang North Korea. Encrypted traffic. Mode: DPRK ARQ 600/600  
 19418.5 kHz, 22-11, 0919 UTC: MFA Pyongyang North Korea. Encrypted traffic. Mode: DPRK ARQ 600/600  
 16006.5 kHz, 22-11, 0953 UTC: MFA Pyongyang North Korea. Encrypted traffic. Mode: DPRK ARQ 600/600



### **Egyptian diplomatic stations**

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

20519.7 kHz, 11-11, 0430 UTC, SITOR-A 100/170: MFA Cairo, messages to Kuala Lumpur Malaysia  
 20518.0 kHz, 11-11, 0445 UTC, Codan 16 USB: MFA Cairo, messages to Kuala Lumpur Malaysia  
 21151.7 kHz, 19-11, SITOR-A 100/170: Egyptian MFA, Cairo calling "KKVA" (Embassy Lagos)  
 19345.0 kHz, 20-11, 1246 UTC, Codan 16 tone: MFA Cairo "99907" wkg "44405" Embassy Islamabad  
 20177.0 kHz, 22-11, 1525 UTC, 80bd Codan Chirp: Egyptian embassy Conakry "33308" calling "99907" MFA Cairo





## Unid Chinese net

Modes: voice and LSB 4+4 QPSK 75/3000

The unid Chinese net is still very active. Eddy Waters sent us his updated frequency list. Alas, still no clue who they are. Diplo and military have been suggested but so far there is no conclusive proof for either one of them.

11141.97 kHz, 14-11, 1058 UTC, LSB 4+4 75bd: idling only, no traffic  
 13931.97 kHz, 17-11, 1112 UTC, LSB 4+4 75bd: 4FG messages  
 11141.97 kHz, 17-11, 1052 UTC, LSB 4+4 75bd: 4FG messages  
 10265.97 kHz, 17-11, 1135 UTC, LSB 4+4 75bd: 4FG messages  
 21144.97 kHz, 24-11, 2052 UTC, LSB 4+4 75bd: 4FG messages. See below.

2122 2324 2526 2728 2920 3132 3334 3536 3738 3930  
 4142 4344 4546 4748 4940 5152 5354 5556 5758 5950  
 6162 6364 6566 6768 6960 7172 7374 7576 7778 7970  
 8182 8384 8586 8788 8980 9192 9394 9596 9798 9990  
 0102 0304 0506 0708 0900 1112 1314 1516 1718 1910  
 2122 2324 2526 2728 2920 3132 3334 3536 3738 3930  
 4142 4344 4546 4748 4940 5152 5354 5556 5758 5950  
 6162 6364 6566 6768 6960 7172 7374 7576 7778 7970  
 8182 8384 8586 8788 8980 9192 9394 9596 9798 9990-1  
 XYXYXYXYXY MSG CY HW?QSL?QSL?QSL?  
 XYXYXYXYXY OK GB  
 HR IS RTYD RTYD RTYD HR SI RTYD RTYD RTYD  
 HR IS RTYD RTYD RTYD HR SI RTYD RTYD RTYD  
 HR IS RTYD RTYD RTYD HR SI RTYD RTYD RTYD  
 HR IS RTYD RTYD RTYD HR SI RTYD RTYD RTYD  
 HR IS RTYD RTYD RTYD HR SI RTYD RTYD RTYD  
 HR IS RTYD RTYD RTYD HR SI RTYD RTYD RTYD  
 HR ZNN SK HR ZNN SK  
 KAKZ

FREQUENCY	STATION	CALL	ITU	DECODER	MODE	DATE	START	BAUD	HERTZ
6797,97	BEIJING		CHN	4+4	LSB	23-8-2012	1106	75	3000
7679,97	BEIJING		CHN	4+4	LSB	20-9-2012	1221	75	3000
7700,97	BEIJING		CHN	4+4	LSB	22-10-2012	1056	75	3000
7776,97	BEIJING		CHN	4+4	LSB	22-10-2012	1106	75	3000
7918,97	BEIJING		CHN	4+4	LSB	23-8-2012	1220	75	3000
7949,97	BEIJING		CHN	4+4	LSB	26-8-2012	1355	75	3000
8030,97	BEIJING	KCEH65305944	CHN	4+4	LSB	25-10-2012	1159	75	3000
8159,97	BEIJING		CHN	4+4	LSB	22-10-2012	1113	75	3000
8181,97	BEIJING		CHN	4+4	LSB	23-8-2012	1217	75	3000
9210,97	BEIJING		CHN	4+4	LSB	23-8-2012	1220	75	3000
9272,97	BEIJING		CHN	4+4	LSB	23-8-2012	1210	75	3000
9305,97	BEIJING		CHN	4+4	LSB	18-10-2012	1048	75	3000
10112,97	BEIJING		CHN	4+4	LSB	23-8-2012	1106	75	3000
10145,97	BEIJING		CHN	4+4	LSB	22-9-2012	1115	75	3000
10169,97	BEIJING	BIKB46175397	CHN	4+4	LSB	29-8-2012	1152	75	3000
10202,97	BEIJING	=XKGB76778377	CHN	4+4	LSB	11-10-2012	1245	75	3000
10247,97	BEIJING		CHN	4+4	LSB	11-10-2012	1122	75	3000
10265,97	BEIJING	=EKGB94446535	CHN	4+4	LSB	22-10-2012	1205	75	3000
10277,97	BEIJING	=XKGB72350925	CHN	4+4	LSB	11-10-2012	1236	75	3000
10334,97	BEIJING	=KCEC41063579	CHN	4+4	LSB	23-8-2012	1123	75	3000
10340,97	BEIJING		CHN	4+4	LSB	25-9-2012	1303	75	3000
10343,97	BEIJING	=XKGB26144804	CHN	4+4	LSB	16-10-2012	1207	75	3000
10364,97	BEIJING	=CGGE56615658	CHN	4+4	LSB	16-10-2012	1203	75	3000
10373,97	BEIJING		CHN	4+4	LSB	13-10-2012	1210	75	3000
10376,97	BEIJING		CHN	4+4	LSB	9-9-2012	1140	75	3000

10388,97	BEIJING		CHN	4+4	LSB	22-10-2012	1140	75	3000
10397,97	BEIJING		CHN	4+4	LSB	27-8-2012	1138	75	3000
10400,97	BEIJING		CHN	4+4	LSB	1-9-2012	1147	75	3000
10403,97	BEIJING	=XKGB33236173	CHN	4+4	LSB	23-8-2012	1210	75	3000
10421,97	BEIJING		CHN	4+4	LSB	23-8-2012	1106	75	3000
10448,97	BEIJING	=KCEH52470000	CHN	4+4	LSB	11-10-2012	1154	75	3000
10469,97	BEIJING		CHN	4+4	LSB	23-8-2012	1017	75	3000
10472,97	BEIJING		CHN	4+4	LSB	23-9-2012	1035	75	3000
10532,97	BEIJING		CHN	4+4	LSB	27-8-2012	1135	75	3000
10547,97	BEIJING		CHN	4+4	LSB	27-9-2012	1056	75	3000
10667,97	BEIJING	=CGGE87158710	CHN	4+4	LSB	23-8-2012	1140	75	3000
10715,97	BEIJING		CHN	4+4	LSB	29-10-2012	1124	75	3000
10721,97	BEIJING	=BIKB46175394	CHN	4+4	LSB	22-9-2012	1055	75	3000
10730,97	BEIJING		CHN	4+4	LSB	23-8-2012	1045	75	3000
10766,97	BEIJING		CHN	4+4	LSB	16-10-2012	923	75	3000
10772,97	BEIJING		CHN	4+4	LSB	23-8-2012	1023	75	3000
10823,97	BEIJING		CHN	4+4	LSB	1-9-2012	1151	75	3000
10826,00	BEIJING		CHN	4+4	LSB	13-10-2012	1205	75	3000
10840,97	BEIJING		CHN	4+4	LSB	22-9-2012	1050	75	3000
10865,97	BEIJING		CHN	4+4	LSB	23-8-2012	1106	75	3000
10874,97	BEIJING		CHN	4+4	LSB	23-9-2012	1120	75	3000
10886,97	BEIJING	=IDHB77307763	CHN	4+4	LSB	23-8-2012	1137	75	3000
10952,97	BEIJING	=KCEH65305944	CHN	4+4	LSB	23-8-2012	1155	75	3000
10982,97	BEIJING		CHN	4+4	LSB	23-8-2012	1137	75	3000
10994,97	BEIJING		CHN	4+4	LSB	22-10-2012	1117	75	3000
11010,00	BEIJING	=KCEC41603579	CHN	4+4	LSB	23-8-2012	955	75	3000
11039,97	BEIJING	=XKGB82407980	CHN	4+4	LSB	24-9-2012	1125	75	3000
11069,97	BEIJING		CHN	4+4	LSB	3-10-2012	1205	75	3000
11081,97	BEIJING		CHN	4+4	LSB	21-9-2012	1025	75	3000
11129,97	BEIJING		CHN	4+4	LSB	3-10-2012	1145	75	3000
11144,97	BEIJING	VKCEH44453859	CHN	4+4	LSB	21-9-2012	1000	75	3000
12177,00	BEIJING		CHN	4+4	LSB	8-9-2012	1025	75	3000
13159,97	BEIJING	SZDE DE CQYV	CHN	4+4	LSB	27-8-2012	1138	75	3000
13376,97	BEIJING		CHN	4+4	LSB	22-10-2012	1147	75	3000
13428,00	BEIJING		CHN	4+4	LSB	9-9-2012	1000	75	3000
13492,97	BEIJING		CHN	4+4	USB	28-10-2012	845	75	3000
13506,00	BEIJING		CHN	4+4	USB	23-10-2012	1115	75	3000
13892,97	BEIJING		CHN	4+4	LSB	26-9-2012	1102	75	3000
13931,97	BEIJING		CHN	4+4	LSB	21-9-2012	907	75	3000
13955,97	BEIJING		CHN	4+4	LSB	20-9-2012	848	75	3000
14279,97	BEIJING		CHN	4+4	LSB	23-8-2012	904	75	3000
14936,97	BEIJING	EXTW DE DYSJ	CHN	4+4	LSB	20-9-2012	1108	75	3000
16373,00	BEIJING		CHN	4+4	LSB	6-9-2012	1019	75	3000
16506,00	BEIJING		CHN	4+4	LSB	5-9-2012	1216	75	3000
21124,97	BEIJING	PQLD KUMH	CHN	4+4	LSB	5-9-2012	1216	75	3000
21254,97	BEIJING	JRSH DVPS	CHN	4+4	LSB	25-9-2012	1222	75	3000

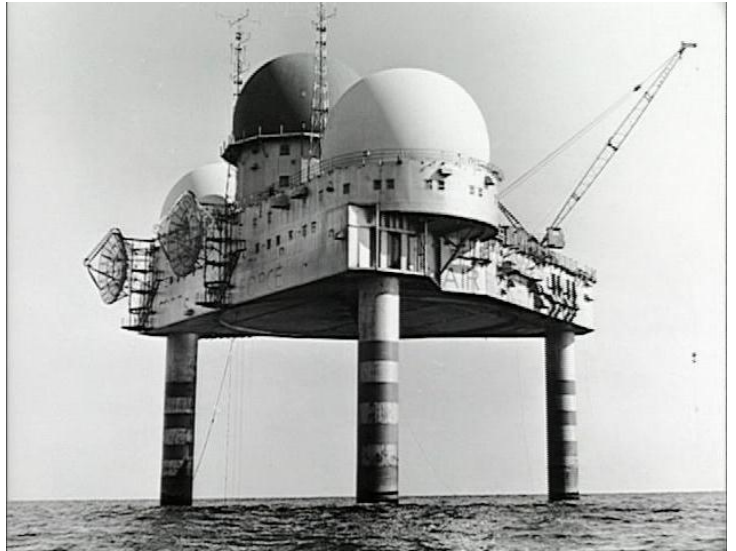
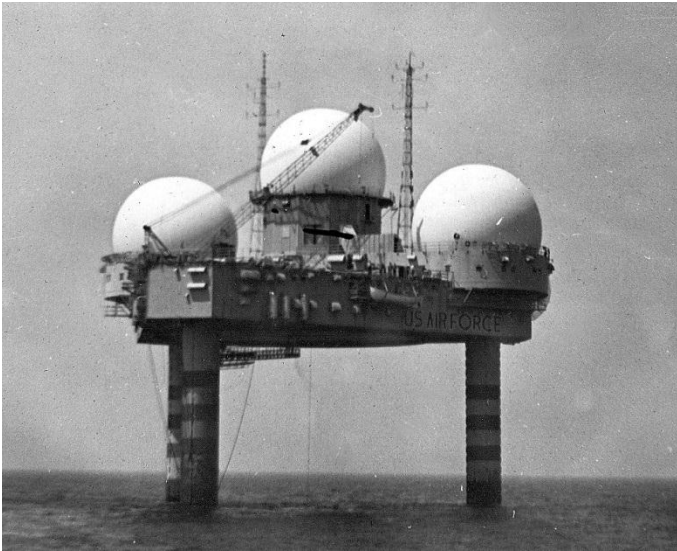


## ***Pakistani Intelligence & Diplomatic stations***

19889.7 kHz, 07-11, 1003 UTC: Pakistan ISI agency Islamabad? sending messages in five letter groups. Each message repeats.  
Mode: 100/200 PACTOR 2 FEC

14851.7 kHz, 14-11, 1047 UTC: Pakistan ISI agency. Karachi? messages sent in five letter groups. all messages sent twice  
Mode: 100/200 PACTOR 2 FEC

Both copied by Eddy.



## UTILITY ROUND-UP



### Pirates

6998.1 kHz, 10-11, 1645 UTC: VVV VVV DE HWK7 AR

6998.1 kHz, 10-11, 1836 UTC: VVV VVV DE HWK7 FONDAZIONE .. NAZIONALE .. ICI .ANTACA ALAMADRE DI DIO .. PERLA DIE FESA DEI UOMO .. NR. 011 10/11/2012 MESSAGGIO PER .PPE etc etc



### Unid stations

Jim copied an unid CIS net on 4066 kHz, 05-11, 2228 UTC, CW:

9Z2P exchanges QSA QST QSV with XNCB LXZV & DKOU. QST & QSV not used in usual sense of 'voice' and send Vs. Simplex Network.

8993 kHz, 06-11, 1023 UTC, Voice, OM/EE. Copied by Doug via remote rx in Brisbane, Australia.

Unid net sending Papa callsigns: Papa 54, Papa 03

Mysterious signals on 14000, 15000, 18000 and 21000 kHz from China. Reported by Eddy and IARUMS. The signal is described as "grunt or moo noises". The source of the emissions was Central China. The purpose is unknown. DK2OM recorded the station: <http://www.iarums-r1.org/iarums/sound/21000-grunt.wav>

13944 kHz, 07-11, 0847 UTC, CW. Copied by Eddy in S. Australia.

Unid sending characters slowly (L O R P A etc). Off at 0855 UTC

Remco found peculiar traffic on 5827 kHz, on 05-11, 2200 UTC and 06-11, 0018 UTC.

The traffic was hand keyed and the operators were clearly not experienced. Therefore I guess that these are trainings transmissions. No idea who is sending them. The same sort of messages were transmitted on 8062 kHz in 2008. The real

words in the messages then and now are Spanish words. Ideas anyone?

Recordings:

<http://soundcloud.com/hfdxer/strangeqso-05-11-2012-2200z>

<http://soundcloud.com/hfdxer/strangeqso2-06-11-2012-0018z>

Sample of the traffic heard:

1: /nwnw

2: = = = m/

1: ou/yyo mr/ddy gk/bbqhtr/stop/nu

2: nunw

1:/aagyx/stop/comer/hogar/ooeez/ocean/nu

2: nunu

1: obe77/tezzz/erxxx/lzz . . . 2. . . s2 fe

2: ar ar ar (ar = .-..)

1: k ar a r (ar = .-. <- EOT)

---

Another unid reported by Daniel in Argentina and Eddy in Australia. It is a so far unknown digital mode. Frequencies 12000, 18500, 19500, 20000 kHz. I have uploaded their recordings to [www.udxf.nl](http://www.udxf.nl)

---

Igor checks in from S.E. Russia with an unid possible Korean or Chinese station that transmitted a looped message on 13800 kHz, 14-11-2012, 0155 UTC in AM.

Recording on the UDXF website [www.udxf.nl](http://www.udxf.nl) and radioscaners.ru

[http://www.radioscanner.ru/files/download/file14874/14-11-2012\\_0155z\\_13800k-2.mp3](http://www.radioscanner.ru/files/download/file14874/14-11-2012_0155z_13800k-2.mp3)

---

Alex copied again one of the "10-minute stations". These stations go back a long time but we still have no clue of who they are.

3809 kHz, 22-11, 1735 UTC: ZJL4: station transmits two ten minute time slots each hour, 5-15 min and 35-45 min, at the top of the hour broadcasts numerical messages; ZJL4 was last noted active on 3774 kHz and 3540 kHz during November 2005.

---

Les copied the following unid in the UK on 7700 kHz, 27-11, 0930 UTC: Station on 7700 kHz with male voice repeating "INDIA INDIA" in English. Nothing more than that. It sounds like a channel marker.

---

The following unid was submitted by Ruud from The Netherlands. He heard an unid station on 4969 kHz on 28-11 at 1924 UTC. His recording can be found on the N&O and UDXF websites. The text is difficult to follow. If you can understand what is said, please let us know. I asked Pat an Michel to listen to it as well. Together we jotted down part of the text but there are still parts missing. Thanks for your help, gentlemen.

The language is French with a Maghrebien (North African) accent. Possibly Algerian Garde National or Gardes Frontières.

This is the text that we could understand:

SITUATION PL (papa lima)

CHARGE GESTIS

ARMEMENT ET MUNILS

STOP

COURRIER ET TRA?S?S (TRANSITS?) = ET TRANS ?

DES RECEPTION

-Parts missing-

DPM

-Parts missing-

... DESTINATAIRE PRÉSENT ... DFPT? PRIMO STOPPER FERCPT PTARHE?IR AC /25"/P...EM LZ

-Parts missing-

JE REPRENDS: AVANT.....2012..... STOP

-Parts missing-

Further mentioned are FICHES RENSEIGNEMENT (information cards) and PARDEVIR (?) also EMLZ (?)

---

The following two unids were copied by Remco. Both are possibly Russian/CIS military nets. Anyone for the id?

5827 05/11 2200 ??? A1A Weird QSO 5827 kHz, both ends hand keyed, only got the tail:  
1: /nwnw  
2: = = = m/  
1: ou/yyo mr/ddy fk/bbqhtr/stop/nu  
2: nunw  
1:/aagyx/stop/comer/hogar/ooeez/ocean/nu  
2: nunu  
1: obe77/tezzz/erxxx/lzz . . . 2. . . s2 fe  
2: ar ar ar (ar = .-..)  
1: k ar a r (ar = .-. <- EOT)

6772.6 07/110848 ??? A1A handkeyed station apparently in QSO. Very bad morse hand writing.  
Other station was too weak  
- ZNB 0850 II YBLACL ZNB 0854 LBD K  
- VFD E UVHG ZNB 0850 YBEDAC ZNB 0854 LBD K  
- T U VVV FTFU de 88EXLZF/G K ?  
- DE 88EY ... Z ... K ?  
- FTFU DE 88EYFTFT ZPF/G  
- DE 88 UF8PG 2HIZPFV K

---

The final unid was also submitted by Remco. As always, your help is appreciated.

6640 kHz, 06-11, 1028 UTC, CW: CQ CQ CQ DX de FB2VITOR AR

---



North Korean "Spy fishing boat"



## ***Intelligence profile:*** **United Kingdom**



---

### **BACKGROUND**

The United Kingdom has historically played a leading role in developing parliamentary democracy and in advancing literature and science. At its zenith in the 19th century, the British Empire stretched over one-fourth of the earth's surface. The first half of the 20th century saw the UK's strength seriously depleted in two world wars and the Irish Republic's withdrawal from the union. The second half witnessed the dismantling of the Empire and the UK rebuilding itself into a modern and prosperous European nation. As one of five permanent members of the UN Security Council and a founding member of NATO and the Commonwealth, the UK pursues a global approach to foreign policy. The UK is also an active member of the EU, although it chose to remain outside the Economic and Monetary Union. The Scottish Parliament, the National Assembly for Wales, and the Northern Ireland Assembly were established in 1999. The latter was suspended until May 2007 due to wrangling over the peace process, but devolution was fully completed in March 2010.

---

### **GENERAL**

- Country name:** United Kingdom of Great Britain and Northern Ireland  
(Great Britain includes England, Scotland, and Wales)
- Short name:** United Kingdom (U.K.)
- Capital:** London
- Admin. Divisions:** An enormous amount of administrative divisions. Too much to mention here.
- England: 27 two-tier counties, 32 London boroughs and 1 City of London or Greater London, 36 metropolitan districts, 56 unitary authorities.
  - Northern Ireland: 26 district council areas.
  - Scotland: 32 council areas.
  - Wales: 22 unitary authorities.
- Dependent areas:** Anguilla, Bermuda, British Indian Ocean Territory, British Virgin Islands, Cayman Islands, Falkland Islands, Gibraltar, Montserrat, Pitcairn Islands, Saint Helena, Ascension, and Tristan da Cunha, South Georgia and the South Sandwich Islands, Turks and Caicos Islands

---

### **MILITARY**

Army, Royal Navy (includes Royal Marines), Royal Air Force

---

### **INTELLIGENCE SECURITY AGENCIES**

Office for security and counter-terrorism (OSCT)  
Defence Intelligence Staff (DIS)  
Government Communications Headquarters (GCHQ)  
Joint Intelligence Committee (JIC)  
Royal Air Force Intelligence Branch  
Intelligence Corps  
Police Intelligence

Secret Intelligence Service (SIS or MI6)  
Security Service (MI5)  
Special Branch  
Metropolitan Police (Scotland Yard)  
Serious Organised Crime Agency (SOCA)  
Cabinet Office  
Foreign and Commonwealth Office  
Intelligence and Security Committee  
Centre for the Protection of National Infrastructure (CPNI)  
National Security Council (NSC)

---

The *Intelligence and Security Committee (ISC)* was established by the Intelligence Services Act 1994 to examine the policy, administration and expenditure of the Security Service, Secret Intelligence Service (SIS), and the Government Communications Headquarters (GCHQ). The Committee has developed its oversight remit, with the Government's agreement, to include examination of intelligence-related elements of the Cabinet Office including: the Joint Intelligence Committee (JIC); the Assessments Staff; and the Intelligence, Security and Resilience Group. The Committee also takes evidence from the Defence Intelligence Staff (DIS), part of the Ministry of Defence (MOD), which assists the Committee in respect of work within the Committee's remit.

The Prime Minister appoints the ISC Members after considering nominations from Parliament and consulting with the Leader of the Opposition. The Committee reports directly to the Prime Minister, and through him to Parliament, by the publication of the Committee's reports. The Members are subject to Section 1(1)(b) of the Official Secrets Act 1989 and have access to highly classified material in carrying out their duties. The Committee takes evidence from Cabinet Ministers and senior officials - all of which is used to formulate its reports.

---

The *Secret Intelligence Service (SIS) a.k.a. MI6* was established in 1909 as the Foreign Section of the Secret Service Bureau. The Foreign Section's responsibility for overseas intelligence collection has been retained ever since by SIS under a variety of names and acronyms. This responsibility was placed on a statutory basis in the Intelligence Services Act 1994.

SIS contributes to the larger inter-departmental national intelligence community, where it works closely with the other two British intelligence and security agencies, Government Communications Headquarters (GCHQ) and the Security Service (MI5). What's in a name?

The origins of the Secret Intelligence Service (SIS) are to be found in the Foreign Section of the Secret Service Bureau, established by the Committee of Imperial Defence in October 1909. The Secret Service Bureau was soon abbreviated to 'Secret Service', 'SS Bureau' or even 'SS'. 'MI6' has become an almost interchangeable title for SIS, at least in the minds of those outside the Service. The origins of the use of this other title are to be found in the late 1930s when it was adopted as a flag of convenience for SIS. It was used extensively during the Second World War, especially if an organisational link needed to be made with MI5 (the Security Service). Although 'MI6' fell into official disuse years ago, many writers and journalists continue to use it to describe SIS. Our roles and responsibilities

SIS collects secret intelligence and mounts covert operations overseas in support of British Government objectives. The parameters for these activities are laid down in the Intelligence Services Act 1994, which states that SIS functions are to obtain and provide information and perform other tasks relating to the acts and intentions of persons overseas.

---

The *Security Service, usually called MI5* (originally Military Intelligence Section 5), is the British counter-intelligence and security agency. Its charge covers the protection of British parliamentary democracy and economic interests, and fighting serious crime, militant separatism, terrorism and espionage within the United Kingdom. It is mainly concerned with internal security, while the Secret Intelligence Service (MI6) looks after external security. The Republic of Ireland is the only exception to this, as it is the only state to share a land border with the United Kingdom.

Within the government community, MI5 is colloquially known as Box (after its official wartime address of PO Box 500 and its current address -PO Box 3255, London SW1P 1AE) or simply Five. The organisation is based since 1995 at Thames House, Millbank, London.

The role of the Security Service is defined by law in the Security Service Act 1989 opens in a new window. See Statutory Basis for more information on what the law says about the Security Service's functions and relationship with the Government. The Security Service is responsible for "protecting the UK against threats to national security from espionage, terrorism and

sabotage, from the activities of agents of foreign powers, and from actions intended to overthrow or undermine parliamentary democracy by political, industrial or violent means."

MI5 also provides security advice to a range of organisations in the public and private sectors, and work against the proliferation of weapons of mass destruction. Other task include:

- Counter-terrorism and protective security. The Service's principal activity is the fight against terrorism . This includes both international and domestic terrorism (the latter relating to Northern Ireland), and the provision of protective security in support of that task.
- Counter-espionage. Espionage remains a focus of concern. Although the nature of the threat has changed since the end of the Cold War, the intelligence services of Russia, China and other countries continue to work against UK interests at home and abroad.
- Counter-proliferation. The proliferation of weapons of mass destruction poses a serious potential threat to the UK's national security. The Service has played a part in combating this threat since 1992, supporting the work of other Government organisations.

---

### **Government Communications Headquarters (GCHQ)**

GCHQ, set up in 1946, was born out of the wartime code-breakers based in Bletchley Park. GCHQ's headquarters are in Cheltenham, Gloucestershire and there are two smaller sites; one in Cornwall and one in Yorkshire.

The agency has two functions: To monitor, intercept, and decrypt information from those who pose a threat to the UK, and to keep confidential government information secret. Staffed by civil servants, including skilled mathematicians and linguists, GCHQ comes under the responsibility of the Foreign Office.

GCHQ is one of the three UK Intelligence Agencies and forms a crucial part of the UK's National Intelligence and Security machinery. The National Security Strategy sets out the challenges of a changing and uncertain world and places cyber attack in the top tier of risks, alongside international terrorism, a major industrial accident or natural disaster, and international military crisis. GCHQ, in concert with Security Service (also known as MI5) and the Secret Intelligence Service (also known as MI6) play a key role across all of these areas and more. Its work drives the UK Government's response to world events and enables strategic goals overseas.

All GCHQ's operations are conducted within a framework of legislation that defines our roles and activities. As well as Ministerial oversight by the Foreign Secretary, Parliamentary and non-Judicial oversight of GCHQ's activities is provided by the Intelligence and Security Committee (ISC), the independent Commissioners for oversight (the Intelligence Services Commissioner and the Interception of Communications Commissioner), and the Investigatory Powers Tribunal (IPT).

The Director of GCHQ reports directly to the Secretary of State for Foreign and Commonwealth Affairs. Its primary customers are the Ministry of Defence, the Foreign and Commonwealth Office and law enforcement agencies but through the Information Assurance arm (CESG), GCHQ also serves a wide range of other Government Departments and Agencies, helping them to protect their systems and secure their information.

---

The **Defense Intelligence Staff (DIS)** has existed in its present form since the 1960s. DIS It has about is an integral part of the MOD and is the main provider of strategic defence intelligence to the Department and the Armed Forces. It provided timely intelligence products, assessments and advice to guide decisions on policy and the commitment and employment of the Armed Forces; to inform defence research and equipment programmes; and to support military operations.

DIS is also an essential element of the UK's central intelligence machinery (this includes the GCHQ, MI5 and MI6) contributing staff and resources to the Cabinet office in support of the Joint Intelligence Committee (JIC) the UK's national intelligence committee and also to the Joint Terrorism Analysis Centre (JTAC). DIS supports other Government Departments with advice and intelligence assessments. Its assessments also support intelligence analysis and operations undertaken by NATO and the EU.

The Chief of Defence Intelligence (CDI), a serving three-star military officer, is responsible for the overall coordination of defence intelligence throughout the Armed Forces and single-Service commands. He reports to the Chief of the Defence Staff and the Permanent Secretary of the MOD and is supported by two deputies, one civilian and military. The Deputy Chief of Defence Intelligence (DCDI), a 2 star civilian equivalent, is responsible for the Defence Intelligence analysis and production, the Assistant Chief of the Defence Staff (Intelligence Capabilities) (ACDS(IC), a serving two star military officer is responsible for intelligence collection, mapping and training.

DCDI is responsible for intelligence analysis and production, providing global defence intelligence assessments and strategic warning on a wide range of issues including, intelligence support for operations; proliferation and arms control; conventional

military capabilities; strategic warning and technical evaluations of weapons systems.

ACDS(IC) is responsible for the provision of the joint intelligence collection in support of the Defence and wider Government requirements, joint and single service intelligence training and future intelligence collection strategy and policy. ACDS(IC) also has a broader responsibility for drawing together defence related Intelligence, Surveillance, and Target Acquisition and Reconnaissance (ISTAR) equipment requirements, in support of the MOD policy, commitments and equipment capabilities areas.

Responsibilities are shared among three areas. Intelligence Collection Strategy and Policy, based in London; the Intelligence Collection Group, based at various locations including Brampton and Feltham and the Defence and Security Centre based at Chicksands in Bedfordshire.

---

#### *Joint Intelligence Committee (JIC)*

The JIC is part of the Cabinet Office. The role of JIC is:

- To assess events and situations relating to external affairs, defence, terrorism, major international criminal activity, scientific, technical and international economic matters and other transnational issues, drawing on secret intelligence, diplomatic reporting and open source material
  - To monitor and give early warning of the development of direct and indirect threats and opportunities in those fields to British interests or policies and to the international community as a whole;
  - To keep under review threats to security at home and overseas and to deal with such security problems as may be referred to it;
  - To contribute to the formulation of statements of the requirements and priorities for intelligence gathering and other tasks to be conducted by the intelligence Agencies;
  - To maintain oversight of the intelligence community's analytical capability through the Professional Head of Intelligence Analysis;
  - To maintain liaison with Commonwealth and foreign intelligence organisations as appropriate, and to consider the extent to which its product can be made available to them.
- 

The *Cabinet Office* advises the Prime Minister and ministers on the Government's response to cross-cutting strategic issues relating to intelligence and leads on intelligence assessment and priorities through the central intelligence machinery. It coordinates the Government's response to civil emergencies, terrorist incidents and international crises. The Cabinet Office is also responsible for the Single Intelligence Account, which funds the work of the UK intelligence agencies. The Office works in partnership with all government units with a security or intelligence remit as well as the security and intelligence agencies.

---

The *National Security Council (NSC)* is the main forum for collective discussion of the Government's objectives for national security and about how best to deliver them in the current financial climate. A key purpose of the Council is to ensure that Ministers consider national security in the round and in a strategic way. The Council meets weekly and is chaired by Prime Minister.

---

Responsibility for counter-terrorism sits within the *Office for Security and Counter-terrorism (OSCT)*, which is part of the Home Office. OSCT provides strategic direction to the UK's work to counter the threat from terrorism, CONTEST.

Its primary objective is to protect the public from terrorism by working with others to develop and deliver the UK's counter-terrorism strategy. To achieve this, OSCT coordinates the activities of many agencies and government departments. It also has direct responsibility for certain aspects of the counter-terrorist strategy.

The OSCT reports to the Home Secretary, and the parliamentary under secretary for crime and security.

The OSCT's main responsibilities are to:

- support the Home Secretary and other Ministers in directing and implementing CONTEST – the government's strategy for countering terrorism
  - deliver aspects of this strategy directly, through legislation, guidance and funding set the strategic government response to terrorism-related crises through the Cabinet Office briefing rooms (COBR) mechanism
  - manage the Home Secretary's statutory relationship with the Security Service
  - manage the Olympic and Paralympic safety and security programme for the London 2012 Games.
-

The **Centre for the Protection of National Infrastructure (CPNI)** provides integrated security advice (combining information, personnel and physical) to organisations which make up the national infrastructure. Its advice helps to reduce the vulnerability of the national infrastructure (primarily the critical national infrastructure) to terrorism and other threats to national security. CPNI also provides protective security advice for the London 2012 Olympics and space technologies. CPNI are an interdepartmental organisation, with resources from industry, academia and a number of government departments and agencies (including the Security Service, CESG and departments responsible for national infrastructure sectors).

---

The **Serious Organised Crime Agency (SOCA)** is a non-departmental public body of the Government of the United Kingdom under Home Office sponsorship. SOCA is a national law enforcement agency, established as a body corporate under Section 1 of the Serious Organised Crime and Police Act 2005, which operates within the United Kingdom and collaborates (through its network of international offices) with many foreign law enforcement and intelligence agencies.

The Agency was formed on 1 April 2006 following a merger of the National Crime Squad, the National Criminal Intelligence Service (elements of which were incorporated into AVCIS), the National Hi-Tech Crime Unit (NHTCU), the investigative and intelligence sections of HM Revenue & Customs on serious drug trafficking, and the Immigration Service's responsibilities for organised immigration crime. The Assets Recovery Agency became part of SOCA in 2008, while the Serious Fraud Office remains a separate agency.

SOCA operates with greater powers in England and Wales than in Scotland and Northern Ireland and as such works with the Scottish Crime and Drug Enforcement Agency and the Organised Crime Task Force (Northern Ireland), which share some of its functions in their respective jurisdictions.

---

The **Joint Support Group (JSG)** is an elite group within the Army Intelligence Corps. The JSG's role is to recruit and run agents, often by turning existing members of a terrorist organization into double agents.

The JSG's forerunner was the Force Research Unit (FRU), which was active in Northern Ireland during much of The Troubles. The FRU turned IRA members into British agents who provided valuable intelligence on upcoming IRA operations, many of which were subsequently interdicted by the security services. Controversy surrounded the FRU due to allegations that it provided Unionist terror groups with intelligence that led to sectarian murders.

In recent years, The Joint Support Group has been redeployed from Northern Ireland to Afghanistan and to Iraq and where it is reported to have infiltrated agents into the Iraqi insurgency. The JSG works alongside UKSF and US Special Operations forces providing them with vital human intelligence (HUMINT).

---

**14 Intelligence Company** - sometimes referred to as **14 INT**, **14 Company**, or **'The Det'** - was a British Army special forces unit, established during the Troubles, which carried out surveillance operations in Northern Ireland. From their inception until the Troubles played out, 14 Company carried out numerous operations, mostly following and observing suspected terrorists. These painstaking intelligence gathering efforts often led to the arrest of terrorists by the RUC as well as discoveries of weapons caches.

In addition to simple surveillance, they also liaised with SAS teams from whichever squadron was active in Northern Ireland at the time, acting as additional eyes and ears and often providing covert transportation for SAS operations. In the early 80s, a dedicated SAS troop was eventually attached to 14 Company. Together the 2 units formed the Intelligence and Security Group (NI) otherwise known as Int & Sy Group or just 'the Group'.

---

The **Intelligence Corps** is one of the corps of the British Army. It is responsible for gathering, analysing and disseminating military intelligence and also for counter-intelligence and security. The first Intelligence Corps was formed in 1914. It was rapidly run down after the First World War and was finally disbanded in 1929. On 19 July 1940 a new Intelligence Corps was created by Army Order 112 and has existed since that time. On 1 February 1985 the corps was officially declared an 'Arm' (combat support) instead of a 'Service' (rear support).

The corps has a particularly high proportion of commissioned officers, many of them commissioned from the ranks, and also a high percentage of female members. Non-commissioned personnel join in one of two specialisations: Operator Military Intelligence or Operator Military Intelligence (Linguist).

The main formation is 1 Military Intelligence Brigade. 1 MI Brigade has responsibility for three regular and one Territorial Army battalions:

1<sup>st</sup> Military Intelligence Battalion



2<sup>nd</sup> Military Intelligence Battalion  
3<sup>rd</sup> Military Intelligence Battalion  
4<sup>th</sup> Military Intelligence Battalion

The tri-service 15 Psychological Operations Group is also based at Chicksands and comes under the remit of the Intelligence Corps.

---

The *Royal Air Force (RAF) Intelligence branch* is a dedicated organisation within the RAF that maintains intelligence staff and equipment. The duties of the Intelligence Officers and Enlisted Personnel of the branch include: Air Intelligence Analysis, Imagery analysis, Signals Analysis, Human Intelligence, Briefing Duties for aircrew, politicians and commanders, Targeting, and OPINTEL (Operational Intelligence).

---

*Scotland Yard* is a metonym for the headquarters of the *Metropolitan Police Service* of the British capital, London. It derives from the location of the original Metropolitan Police headquarters at 4 Whitehall Place, which had a rear entrance on a street called Great Scotland Yard. The Scotland Yard entrance became the public entrance to the police station. Over time, the street and the Metropolitan Police became synonymous. The Metropolitan Police moved away from Scotland Yard in 1890, and the name "New Scotland Yard" was adopted for the new headquarters.

*Specialist Operations* is part of the Metropolitan Police Service (MPS) and is divided into three sections known as commands. Within these three commands, there are several units whose roles are to help keep safe people who live in, work in and visit London.

- Protection Command is made up of three units responsible for protection services for the Royal Family, ministers and public officials at threat from terrorism, including, visiting heads of government and other public figures.
- Security Command is formed of three units that provide protection of the Palace of Westminster, Heathrow and City of London Airports, and additional security and counter-terrorism co-ordination for London.
- Counter Terrorism Command. The aim of the CT Command is to protect London and the UK from the threat of terrorism. The CT Command is divided into four strands: Intelligence, Investigations, Partnership and Business.

SO15 Counter Terrorism Command aims to protect London and the UK from the threat of terrorism. SO15 brings together intelligence gathering, analysis and development with investigation and operational support activity. SO15 was created in 2006 when it took over the roles and responsibilities of the Anti-Terrorist Branch and Special Branch. It builds on the their world-wide renowned expertise and professionalism of the which, for many years, have been at the forefront of the MPS counter-terrorism effort. The command's overriding priority is to keep the public safe and do all it can to ensure that London remains a hostile environment for terrorists. SO15 provides a full operational capability with teams of officers immediately available to respond to any type of incident or investigation.

Security Command is formed of three units that provide protection of the Palace of Westminster, Heathrow and City of London Airports, and additional security and counter-terrorism co-ordination for London.

- SO17 works with the Parliamentary Authorities to provide a safe and accessible environment for peers, members of parliament, employees and the public by: The Palace of Westminster is a Royal Palace, and as such a Grade 1 listed building and an English Heritage site, covering 8 acres of ground. Additionally there are a further eight buildings in the immediate vicinity occupied by staff / members and peers. The two administrative authorities that are jointly responsible for the day to day running of the estate are the Serjeant at Arms (House of Commons) and Black Rod (House of Lords).
- SO18 Aviation Security. Heathrow Airport and London City Airport are policed by a MPS Operational Command Unit (OCU) known as Aviation Security. Aviation Security is located at Heathrow Airport and has a sub command based at North Woolwich Police Station covering London City Airport. There is a shared command and control facility, which operates from our brand new Police Station at Polar Park, Bath Road, Middlesex. The role of the Metropolitan Police is to keep both Heathrow Airport and London City Airport safe to the travelling public, staff and visitors. They do this in partnership with other law enforcement agencies such as the United Kingdom Borders Agency (UKBA) and the Serious Organised Crime Agency (SOCA). Aviation Security is an armed OCU, which means that many of our officers do carry firearms although there are several other departments within the airport, including a dedicated traffic team, where officers do not carry firearms as part of their day-to-day work.
- SO20 is responsible for delivering an effective and efficient structure to support the UK counter terrorism strategy known as CONTEST, in respect of the PROTECT strand. It aims to help make London a safe place for the public and a hostile environment for terrorists through ensuring adequate protective security arrangements exist for events, crowded places, iconic sites, key utilities and sites where hazardous substances are located. SO20 provides additional security and counter-

terrorism co-ordination for London along with a dedicated specialist Counter Terrorism Search Team. SO20 also has a dedicated team of Counter Terrorism Security Co-ordinators (CT SecCo's) to plan and co-ordinate security at major events. They also manage the MPS wide cadre of CT SecCo's. SO20 also offers counter terrorism security advice and guidance to the business community, public and voluntary sector including educational establishments, places of worship and any other communal areas.

**Special Branch** is the arm of the British, Irish and many Commonwealth police forces that deals with national security matters. They acquire and develop intelligence to help protect the public (and the state) from national security threats, including terrorism, separatism, and subversive and other extremist activity.

The original was called the Special Irish Branch, part of London's Metropolitan Police, and was formed in March 1883 to counter the Irish Republican Brotherhood. The "Irish" soubriquet was later dropped as the department remit was extended to cover other threats.

Each British police force has its own Special Branch, the largest by far being that of the Specialist Operations department of the Metropolitan Police (SO12). These departments work closely with one another and with MI5, the Security Service. The officers work in plain clothes and are occasionally armed. Although they are not part of the Criminal Investigation Department (CID), they are entitled to use the prefix 'Detective' in front of their ranks.

Special Branch has responsibility for, amongst other things, personal protection of (non-royal) VIPs and performing the role of examining officer at designated ports and airports, as prescribed by the Terrorism Act 2000.

The intelligence work of Special Branch is overlooked in some circles. This is because its role sits somewhere between that of the more enigmatic Security Service and that of SO13, the Metropolitan Police Anti-Terrorist Branch.

---

### **Foreign and Commonwealth Office**

The Office works at home and overseas to safeguard Britain's national security and build Britain's prosperity, as well as support British citizens overseas.

#### **Structure:**

The Permanent Under-Secretary (PUS) has overall responsibility for managing the FCO's resources and for policy advice given to ministers. This work is shared between the eight members of the FCO Board. Each has an area of responsibility with the exception of the Chief Executive, UK Trade & Investment (UKTI), and the Chief Information Officer. UKTI is a joint department and the Information Directorate is part of Central Group, which is the responsibility of the PUS.

- Diplomatic Service. Responsible for advising the Foreign Secretary and the Ministerial team on foreign policy, and for managing the FCO.
- Defence and Intelligence. Handles National Security, Cyber, Defence and International Security, Overseas Territories, Americas.
- UK Trade and Investment. UKTI is a joint department run by FCO and the Department for Business Innovation & Skill. It has a lead role within government for developing trade overseas and inward investment in the UK.
- Afghanistan and Pakistan

---

### **RELATED NUMBERS STATIONS**

E03 and E03a. Operational since the first part of the 1970's and active until July 2008 (Lincolnshire Poacher) and December 2009 (Cherry Ripe).

**E03: "The Lincolnshire Poacher"** was the nickname of a British numbers station that was believed to be operated by the British Secret Intelligence Service, a.k.a. MI6. The transmitter site was at Akrotiri on Cyprus.

The station used two bars from the English folk song "The Lincolnshire Poacher" as their interval signal. On the hour the interval signal is played twelve times, followed by a five figure header read ten times by a woman. This is repeated for ten minutes. After that, six tones are transmitted followed by exactly 200 five figure groups. At 45 minutes past the hour the interval signal is sent once again and then the station stays silent until the start of the next hour.

The Lincolnshire Poacher broadcasted each day of the week at 1200, 1300, 1400, 1500, 1600, 1700, 1800, 1900, 2000, 2100 and 2200 UTC. The transmissions were always on 3 parallel frequencies. The Poacher transmitted its last message in July 2008.

**E03a: The Poacher's sister station was "Cherry Ripe".** It got this nickname because it used several bars of the folk song "Cherry Ripe" as their interval signal. The station transmitted for years from the US base on Guam and moved to Humpty Doo, Australia in late September 2009. From this site the station only transmitted during two months until it suddenly stopped in December 2009.

On the hour the interval signal is played twelve times, followed by a five figure header read ten times by a woman. This is repeated for ten minutes. After that, six tones are transmitted plus exactly 200 five figure groups. At 45 minutes past the hour the interval signal is sent once again and then the station stays silent until the start of the next hour.

Cherry Ripe had also 11 transmissions per day but not on Saturday. The broadcasts were on Sunday - Friday at 0000, 0100, 0500, 0700, 1000, 1100, 1200, 1300, 1400, 2200, 2300 UTC. The transmissions were always on 2 parallel frequencies. Cherry Ripe transmitted its last message in December 2009.

---

#### **SOURCES / RELATED WEBSITES / FURTHER INFORMATION**

Wikipedia

CIA World Factbook

SIS <https://www.sis.gov.uk/>

MI5 <https://www.mi5.gov.uk/>

GCHQ <http://www.gchq.gov.uk>

Intelligence and Security Committee <http://isc.independent.gov.uk/>

Serious Organised Crime Agency <http://www.soca.gov.uk/>

Defense Intelligence [www.mod.uk/DefenceInternet/AboutDefence/WhatWeDo/SecurityandIntelligence/DIS/](http://www.mod.uk/DefenceInternet/AboutDefence/WhatWeDo/SecurityandIntelligence/DIS/)

Metropolitan Police (Scotland Yard) <http://content.met.police.uk>

Cabinet Office <http://www.cabinetoffice.gov.uk/>

Foreign and Commonwealth Office <http://www.fco.gov.uk/en/>

Intelligence Services Act 1994 <http://www.legislation.gov.uk/ukpga/1994/13/contents>

Investigatory Powers Tribunal <http://www.ipt-uk.com>

Centre for the Protection of National Infrastructure (CPNI) <http://www.cpni.gov.uk/>

Home Office <http://www.homeoffice.gov.uk/counter-terrorism/OSCT/>

UK Elite Forces <http://www.eliteukforces.info/>

---

### ***Intelligence profile: United States of America***



---

#### **BACKGROUND**

Britain's American colonies broke with the mother country in 1776 and were recognized as the new nation of the United States of America following the Treaty of Paris in 1783. During the 19th and 20th centuries, 37 new states were added to the original 13 as the nation expanded across the North American continent and acquired a number of overseas possessions. The two most traumatic experiences in the nation's history were the Civil War (1861-65), in which a northern Union of states defeated a secessionist Confederacy of 11 southern slave states, and the Great Depression of the 1930s, an economic downturn during which about a quarter of the labor force lost its jobs. Buoyed by victories in World Wars I and II and the end of the Cold War in 1991, the US remains the world's most powerful nation state. Since the end of World War II, the economy has achieved relatively steady growth, low unemployment and inflation, and rapid advances in technology.

---

## GENERAL

Official name:	United States of America
Short names:	United States, U.S., U.S.A.
Capital:	Washington, DC
50 states:	Alabama, Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Hawaii, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, Wyoming District of Columbia
1 district:	American Samoa, Baker Island, Guam, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef,
Dependent areas:	Midway Islands, Navassa Island, Northern Mariana Islands, Palmyra Atoll, Puerto Rico, Virgin Islands, Wake Island. Note: the Northern Mariana Islands is a commonwealth in political union with the US; the Federated States of Micronesia and Palau signed a Compact of Free Association with the US

---

## MILITARY BRANCHES

US Army, US Navy (includes Marine Corps), US Air Force, US Coast Guard.

Note: Coast Guard administered in peacetime by the Department of Homeland Security, but in wartime reports to the Department of the Navy

---

## INTELLIGENCE & SECURITY AGENCIES

Department of Homeland Security

Central Intelligence Agency (CIA)

United States Department of Defense:

- Air Force Intelligence, Surveillance and Reconnaissance Agency (AFISRA)
- Army Intelligence and Security Command (INSCOM)
- Defense Intelligence Agency (DIA)
- Defense Clandestine Service (DCS)
- Marine Corps Intelligence Activity (MCIA)
- National Geospatial-Intelligence Agency (NGA)
- National Reconnaissance Office (NRO)
- National Security Agency (NSA)
- Office of Naval Intelligence (ONI)

United States Department of Energy:

- Office of Intelligence and Counterintelligence (OICI)

United States Department of Homeland Security:

- Office of Intelligence and Analysis (I&A)
- Coast Guard Intelligence (CGI)

United States Department of Justice:

- Federal Bureau of Investigation (FBI)
- Drug Enforcement Administration, Office of National Security Intelligence (DEA/ONSI)

United States Department of State:

- Bureau of Intelligence and Research (INR)

United States Department of the Treasury:

- Office of Terrorism and Financial Intelligence (TFI)
- 

## Department of Homeland Security

Eleven days after the September 11, 2001, terrorist attacks, Pennsylvania Governor Tom Ridge was appointed as the first Director of the Office of Homeland Security in the White House. The office oversaw and coordinated a comprehensive national strategy to safeguard the country against terrorism and respond to any future attacks. With the passage of the Homeland Security Act by Congress in November 2002, the Department of Homeland Security formally came into being as a stand-alone, Cabinet-level department to further coordinate and unify national homeland security efforts, opening its doors on March 1, 2003.

The Department's mission is to ensure a homeland that is safe, secure, and resilient against terrorism and other hazards.  
More specific:

- **Counterterrorism:** Protecting the American people from terrorist threats is the founding purpose of the Department and our highest priority.
- **Border Security:** The DHS prevents and investigates illegal movements across its borders, including the smuggling of people, drugs, cash, and weapons.
- **Preparedness, Response & Recovery:** In the event of a terrorist attack, natural disaster or other large-scale emergency, the DHS will provide a coordinated, comprehensive federal response and mount a swift and effective recovery effort.
- **Immigration:** The Department is responsible for providing immigration-related services and benefits.
- **Cybersecurity:** The growing number of attacks on our cyber networks has become a serious economic and national security threats. The DHS plays an important role in countering these threats.

#### DHS Directorates & Offices:

- The Office of Intelligence and Analysis (I&A) is responsible for using information and intelligence from multiple sources to identify and assess current and future threats to the United States.
- The Office of Operations Coordination and Planning is responsible for monitoring the security of the United States on a daily basis and coordinating activities within the Department and with governors, Homeland Security Advisors, law enforcement partners, and critical infrastructure operators in all 50 states and more than 50 major urban areas nationwide.
- The United States Coast Guard (USCG) is one of the five armed forces of the United States and the only military organization within the DHS.
- The Directorate for National Protection and Programs (NPPD)
- The Directorate for Science and Technology
- The Directorate for Management
- The Office of Policy
- The Federal Law Enforcement Training Center
- The Domestic Nuclear Detection Office
- The Transportation Security Administration (TSA) .
- United States Customs and Border Protection (CBP)
- United States Citizenship and Immigration Services (USCIS)
- United States Immigration and Customs Enforcement (ICE)
- The Federal Emergency Management Agency (FEMA)
- The United States Secret Service (USSS)

#### *Central Intelligence Agency (CIA)*

The Central Intelligence Agency was created in 1947 with the signing of the National Security Act by President Harry S. Truman. The act also created a Director of Central Intelligence (DCI) to serve as head of the United States intelligence community; act as the principal adviser to the President for intelligence matters related to the national security; and serve as head of the Central Intelligence Agency. The Intelligence Reform and Terrorism Prevention Act of 2004 amended the National Security Act to provide for a Director of National Intelligence who would assume some of the roles formerly fulfilled by the DCI, with a separate Director of the Central Intelligence Agency.

The Director of the Central Intelligence Agency serves as the head of the Central Intelligence Agency and reports to the Director of National Intelligence. The CIA director's responsibilities include:

- Collecting intelligence through human sources and by other appropriate means, except that he shall have no police, subpoena, or law enforcement powers or internal security functions;
- Correlating and evaluating intelligence related to the national security and providing appropriate dissemination of such intelligence;
- Providing overall direction for and coordination of the collection of national intelligence outside the United States through human sources by elements of the Intelligence Community authorized to undertake such collection and, in coordination with other departments, agencies, or elements of the United States Government which are authorized to undertake such collection, ensuring that the most effective use is made of resources and that appropriate account is taken of the risks to the United States and those involved in such collection; and
- Performing such other functions and duties related to intelligence affecting the national security as the President or the Director of National Intelligence may direct.
- The function of the Central Intelligence Agency is to assist the Director of the Central Intelligence Agency in carrying out the responsibilities outlined above.

To accomplish its mission, the CIA engages in research, development, and deployment of high-leverage technology for intelligence purposes. As a separate agency, CIA serves as an independent source of analysis on topics of concern and also works closely with the other organizations in the Intelligence Community to ensure that the intelligence consumer—whether Washington policymaker or battlefield commander—receives the best intelligence possible.



The CIA has an executive office and several agency-wide functions, and four major directorates:

- The Directorate of Intelligence, responsible for all-source intelligence research and analysis
- The National Clandestine Service, formerly the Directorate of Operations, which does clandestine intelligence collection and covert action
- The Directorate of Support
- The Directorate of Science and Technology

### The Directorate of Intelligence

The Directorate of Intelligence produces all-source intelligence analysis on key foreign issues. It has four regional analytic groups, six groups for transnational issues, and two support units.

#### Regional groups

- The Office of Middle East and North Africa Analysis (MENA)
- The Office of South Asia Analysis (OSA)
- The Office of Russian and European Analysis (OREA)
- The Office of Asian Pacific, Latin American and African Analysis (APLAA)

#### Transnational groups

- The Office of Terrorism Analysis supports the National Counterterrorism Center in the Office of the Director of National Intelligence.
- The Office of Transnational Issues assesses perceived existing and emerging threats to US national security and provides the most senior policymakers, military planners, and law enforcement with analysis, warning, and crisis support.
- The CIA Crime and Narcotics Center researches information on international crime for policymakers and the law enforcement community. As the CIA has no legal domestic police authority, it usually sends its analyses to the FBI and other law enforcement organizations, such as the Drug Enforcement Administration and the Bureau of Alcohol, Tobacco, and Firearms.
- The Weapons Intelligence, Nonproliferation, and Arms Control Center provides intelligence support related to national and non-national threats, as well as supporting threat reduction and arms control. It receives the output of national technical means of verification.
- The Counterintelligence Center Analysis Group identifies, monitors, and analyzes the efforts of foreign intelligence entities, both national and non-national, against US government interests. It works with FBI personnel in the National Counterintelligence Executive of the Director of National Intelligence.
- The Information Operations Center Analysis Group deals with threats to US computer systems. This unit supports DNI activities.

#### Support and general units

- The Office of Collection Strategies and Analysis provides comprehensive intelligence collection expertise to the Directorate of Intelligence, to senior Agency and Intelligence Community officials, and to key national policymakers.
- The Office of Policy Support customizes Directorate of Intelligence analysis and presents it to a wide variety of policy, law enforcement, military, and foreign liaison recipients. The National Clandestine Service, formerly the Directorate of Operations, which does clandestine intelligence collection and covert action.

### The National Clandestine Service

The National Clandestine Service (NCS) (known as the Directorate of Plans from 1951 to 1973 and as the Directorate of Operations from 1973 to 2005) is one of the four main components of the Central Intelligence Agency. Created in 2005, the NCS "serves as the clandestine arm of the Central Intelligence Agency (CIA) and the national authority for the coordination, de-confliction, and evaluation of clandestine operations across the Intelligence Community of the United States"

### The Directorate of Support

The Directorate has organizational and administrative functions to significant units including:

- The Office of Security
- The Office of Communications
- The Office of Information Technology

### The Directorate of Science and Technology

This directory was established to research, create, and manage technical collection disciplines and equipment. Many of its innovations were transferred to other intelligence organizations, or, as they became more overt, to the military services.

### ***Air Force Intelligence, Surveillance and Reconnaissance Agency (AFISRA)***

The AF ISR Agency, headquartered at Lackland Air Force Base, Texas, was activated June 8, 2007. Formerly known as the Air Intelligence Agency, the Air Force ISR Agency reports to the Air Force Deputy Chief of Staff for Intelligence, Surveillance and Reconnaissance as a field operating agency. The United States Department of Defense defines ISR as: *An activity that synchronizes and integrates the planning and operation of sensors, assets, and processing, exploitation, and dissemination systems in direct support of current and future operations. This is an integrated intelligence and operations function.*

The agency organizes, trains, equips and presents assigned forces and capabilities to conduct intelligence, surveillance and reconnaissance for combatant commanders and the nation. It also implements and oversees the execution of Air Force policies intended to expand ISR capabilities.

---

### ***Army Intelligence and Security Command (INSCOM)***

The United States Army Intelligence and Security Command (INSCOM) is a direct reporting unit that conducts intelligence, security, and information operations for U.S. Army commanders and national decision makers. INSCOM is both an organization within the United States Army and the National Security Agency, the United States's unified signals intelligence organization. Within the NSA, INSCOM and its counterparts in the U.S. Navy and U.S. Air Force are known as Central Security Service. INSCOM is headquartered at Fort Belvoir, Virginia.

---

### ***Defense Intelligence Agency (DIA)***

The Defense Intelligence Agency (DIA) the central producer and manager of military intelligence for the United States Department of Defense. The DIA coordinates the activities of the Army, Navy, Marine Corps, and Air Force intelligence components. The DIA and Defense Intelligence Community provide military intelligence to warfighters, defense policymakers and force planners within the Department of Defense and the United States Intelligence Community, in support of U.S. military planning and operations and weapon systems acquisition. The DIA, designated in 1986 as a Defense Department combat support agency, was established in 1961 as a result of a decision by Secretary of Defense Robert S. McNamara, under President John F. Kennedy. The Department of Defense created the DIA with the publication of Directive 5105.21 effective 1 October 1961.

---

### ***Defense Clandestine Service (DCS)***

The following related news was released on April 24, 2012:

#### ***New Defense Service Enhances Intelligence Capabilities***

***By Army Sgt. 1st Class Tyrone C. Marshall Jr.  
American Forces Press Service***

***WASHINGTON, April 24, 2012 – The Defense Department has begun a new effort to better integrate defense intelligence with the broader intelligence community and make the department a better, more versatile organization, a senior Pentagon spokesman told reporters today.***

***“What we’ve done here is we’ve formed a new effort here called the Defense Clandestine Service,” said Navy Capt. John Kirby, the deputy assistant Secretary of Defense for media operations. “It’s essentially designed to integrate defense intelligence capabilities with the broader intelligence community by leveraging unique military capabilities. “It’s also designed to further professionalize our intelligence workforce and offer some career progression inside the intelligence community,” Kirby added. “And we’ll also provide general direct support, not only to DOD collection, but also to the intelligence community’s collection.”***

***Kirby said the intent is to use “existing capabilities and existing personnel to better focus on this particular kind of intelligence.” He noted this new, joint effort, which has already began, is intended to be complementary to other intelligence efforts. “I think the practical result will be a rebalancing of our efforts and our focus on the human side of intelligence collection,” Kirby said. “We’re very, very proficient at the technical side of intelligence collection and I think this will help us get a little bit better at the human intelligence effort.”***

***Another benefit of this new effort, according to Kirby, will be better career progression for military officers in the intelligence community as “another professional track for they can pursue.” Kirby noted while the Defense Clandestine Service is a DOD initiative, it will be in support and complementary to the Director of National Intelligence’s work. “Yes, there are other intelligence communities who do this and they will continue to do this,” Kirby said. “This isn’t about supplanting anybody, it’s not about taking over anything, it’s not about militarization of intelligence collection; it’s about making us better contributors to the overall team effort.”***

*Kirby emphasized this initiative will build upon the best intelligence practices and lessons learned during the past decade. "We're a learning organization and we've learned a lot over the last 10 years," he said, "and one of the things we've learned is that we can do better in this realm and we can contribute better to the intelligence community across the interagency in this realm."*

---

#### **Marine Corps Intelligence Activity (MCIA)**

The MCIA is a field activity of Headquarters, U.S. Marine Corps. The MCIA describes itself as: "a vital part of military intelligence 'corporate enterprise,' and functions in a collegial, effective manner with other service agencies and with the joint intelligence centers of the Joint Chiefs of Staff and Unified Commands." The MCIA mission is to provide intelligence services to the Marine Corps and the U.S. Intelligence Community. These services are based on expeditionary mission profiles in littoral areas. It supports the development of service doctrine, force structure, training and education, and acquisition. MCIA determines what missions the Corps needs to carry out as well as who will need to be trained for that mission. MCIA is in partnership with Office of Naval Intelligence and Office of Coast Guard Intelligence in the National Maritime Intelligence Center and at Marine Corps Base Quantico in Quantico, Virginia.

---

#### **National Geospatial-Intelligence Agency (NGA)**

The NGA is an agency of the federal government of the United States with the primary mission of collecting, analyzing, and distributing geospatial intelligence (GEOINT) in support of national security. NGA was formerly known as the National Imagery and Mapping Agency (NIMA) and is part of the Department of Defense (DoD). In addition, NGA is a key component of the United States Intelligence Community. NGA headquarters is located in Springfield, Virginia and operates major facilities in the St. Louis, Missouri area, as well as support and liaison offices worldwide. The NGA was credited by White House and military officials with providing critical information in support of Operation Neptune's Spear on May 2, 2011, in which the United States Military raided a secret compound housing Osama Bin Laden in Abbottabad, Pakistan.

---

#### **National Reconnaissance Office (NRO)**

The NRO, located in Chantilly, Virginia, designs, builds, and operates the spy satellites of the United States government, and coordinates the analysis of aerial surveillance and satellite imagery from several intelligence and military agencies. The Director of the NRO reports to both the Director of National Intelligence and the Secretary of Defense. He also serves as Assistant to the Secretary of the Air Force (Intelligence Space Technology).

##### **NRO satellites**

USA-129	USA-139	USA-158	USA-171	USA-182	USA-194	USA-215	USA-227
USA-133	USA-144	USA-160	USA-173	USA-184	USA-198	USA-223	USA-229
USA-136	USA-152	USA-161	USA-179	USA-186	USA-200	USA-224	
USA-137	USA-155	USA-162	USA-181	USA-193	USA-202	USA-225	

---

#### **National Security Agency (NSA)**

The NSA is a cryptologic intelligence agency of the United States Department of Defense responsible for the collection and analysis of foreign communications and foreign signals intelligence, as well as protecting U.S. government communications and information systems, which involves information security and cryptanalysis / cryptography. NSA is a key component of the U.S. Intelligence Community, which is headed by the Director of National Intelligence. The Central Security Service is a co-located agency created to coordinate intelligence activities and co-operation between NSA and other U.S. military cryptanalysis agencies. The Director of the National Security Agency serves as the Commander of the United States Cyber Command and Chief of the Central Security Service. By law, NSA's intelligence gathering is limited to foreign communications, although domestic incidents such as the NSA warrantless surveillance controversy have occurred. The NSA is divided into two major missions: the Signals Intelligence Directorate (SID), which produces foreign signals intelligence information, and the Information Assurance Directorate (IAD), which protects U.S. information systems.

---

#### **Office of Naval Intelligence (ONI)**

The ONI is the leading provider of maritime intelligence to the U.S. Navy and joint warfighting forces, as well national decision makers and other consumers in the Intelligence Community. Established in 1882, ONI specializes in the analysis, production and dissemination of vital, timely and accurate scientific, technical, geopolitical and military intelligence information to key consumers worldwide. ONI is headquartered in Suitland, MD, and is collocated with its four subordinate Centers of Excellence (Nimitz Operational Intelligence Center, Farragut Technical Analysis Center, Kennedy Irregular Warfare Center, Hopper Information Services Center). Each center is a distinct Echelon III command subordinate to ONI. ONI is required by U.S. Code

(Title 501), Executive Order 12333 and as specified by the Secretary of Defense to perform analysis and produce intelligence on the following:

- Worldwide scientific and technical developments
  - Military Research, Development, Testing and Evaluation
  - Military production and proliferation
  - Military systems characteristics and performance
  - Foreign naval forces leadership, organization, strategy, doctrine, tactics, techniques, procedures and readiness
  - Identification and tracking of merchant shipping
- 

#### *Office of Intelligence and Counterintelligence (OICI)*

The OICI is an office of the United States Department of Energy that focuses on gathering intelligence for the department. It provides information to the Secretary of Energy and senior federal policy makers. As a member of the Intelligence Community, it also provides the other intelligence agencies with technical analysis of foreign intelligence. The Office of Intelligence utilizes all of the Department of Energy's resources to gather and analyze intelligence, including the national laboratories. Its expertise is in nuclear weapons, nuclear proliferation, nuclear energy, radioactive waste and energy security. Its most important function to the Intelligence Community is its assessments of foreign nuclear weapons programs. However, it also provides scientific expertise, analysis and technology. Currently, the office does not perform counterintelligence activities. These are handled by the National Nuclear Security Administration and the Office of the National Counterintelligence Executive.

---

#### *Office of Intelligence and Analysis (I&A)*

The Office of I&A is an agency of the United States Department of Homeland Security. I&A is responsible for developing Department-wide intelligence services through the managing the collection, analysis and fusion of intelligence throughout the entire Department. I&A disseminates intelligence throughout the Department, to the other members of the United States Intelligence Community, and to first responders at the state and local level. The Office not only tracks terrorists and their networks but also assess threats to critical American infrastructures, bio- and nuclear terrorism, pandemic diseases, threats to the borders (air, land, and sea) of the United States, and radicalization within American society. The Office of Intelligence and Analysis is overseen by the Under Secretary of Homeland Security for Intelligence and Analysis.

---

#### *Coast Guard Intelligence (CGI)*

The United States Coast Guard is a military, multi-mission, maritime service within the United States Department of Homeland Security and one of the United States's five armed services. Its core roles are to protect the public, the environment, and U.S. economic and security interests in any maritime region in which those interests may be at risk, including international waters and the U.S.'s coasts, ports, and inland waterways. To assist in accomplishing the many diverse missions of the Coast Guard, senior leadership and operational commanders rely on Coast Guard Intelligence. Coast Guard intelligence came into existence in 1915. During World War II, CGI was concerned with internal and domestic intelligence and counterintelligence. The modern Coast Guard Intelligence program has cultivated extensive relationships and partnerships with other elements of the Intelligence Community to provide timely, tailored support in a wide range of Coast Guard and national missions. These missions include port security, search and rescue, maritime safety, counter-narcotics, alien migration interdiction, and living marine resources protection. It is currently designated as part of the CG-2 directorate of Coast Guard headquarters

---

#### *Federal Bureau of Investigation (FBI)*

The FBI is a governmental agency belonging to the U.S. Dept. of Justice that serves as both a federal criminal investigative body and an internal intelligence agency (counterintelligence). Also, it is the government agency responsible for investigating crimes on Indian Reservations in the United States under the Major Crimes Act. The branch has investigative jurisdiction over violations of more than 200 categories of federal crime. The agency was established in 1908 as the Bureau of Investigation (BOI). Its name was changed to the Federal Bureau of Investigation (FBI) in 1935.

The agency headquarters is the J. Edgar Hoover Building, located in Washington, D.C.. The agency has 56 field offices located in major cities throughout the United States, and more than 400 resident agencies in lesser cities and areas across the nation. More than 50 international offices called "legal attachés" exist in U.S. embassies and consulates general worldwide.

The FBI is organized into five functional branches and the Office of the Director, which contains most administrative offices. Each branch is managed by an Executive Assistant Director. Each office and division within the branch is managed by an Assistant Director.

- Office of the Director
  - Office of Congressional Affairs

- Office of Equal Employment Opportunity Affairs
- Office of the General Counsel
- Office of Integrity and Compliance
- Office of the Ombudsman
- Office of Professional Responsibility
- Office of Public Affairs
- Inspection Division
- Facilities and Logistics Services Division
- Finance Division
- Records Management Division
- Resource Planning Office
- Security Division
- National Security Branch
  - Counterintelligence Division
  - Counterterrorism Division
  - Directorate of Intelligence
  - Weapons of Mass Destruction Directorate
- Criminal, Cyber, Response, and Services Branch
  - Criminal Investigative Division
  - Cyber Division (Director: Gordon M Snow)
  - Critical Incident Response Group
  - Office of International Operations (Director: Joseph M. Demarest)
  - Office of Law Enforcement Coordination
- Human Resources Branch
  - Training Division
  - Human Resources Division
- Science and Technology Branch
  - Criminal Justice Information Services Division
  - Laboratory Division
  - Operational Technology Division
  - Special Technologies and Applications Office
- Information and Technology Branch
  - Information Technology Operations Division
  - Office of IT Policy & Planning
  - Office of IT Program Management
  - Office of IT Systems Development
  - Office of the Chief Knowledge Officer

---

#### ***Drug Enforcement Administration, Office of National Security Intelligence (DEA/ONSI)***

The DEA is a federal law enforcement agency under the United States Department of Justice, tasked with combating drug smuggling and use within the United States. Not only is the DEA the lead agency for domestic enforcement of the Controlled Substances Act, sharing concurrent jurisdiction with the Federal Bureau of Investigation (FBI) and Immigration and Customs Enforcement (ICE), it also has sole responsibility for coordinating and pursuing U.S. drug investigations abroad.

---

#### ***Bureau of Intelligence and Research (INR)***

The Bureau of Intelligence and Research (INR) is an intelligence bureau in the U.S. State Department tasked with analyzing information. Originally founded as the Research and Analysis Branch of the Office of Strategic Services (1942-1945), it was transferred to the State Department at the end of World War II. The Bureau of Intelligence and Research is part of the United States Intelligence Community, of which there are 16 branches. The Bureau is headed by the Assistant Secretary of State for Intelligence and Research.

---

#### ***Office of Terrorism and Financial Intelligence (TFI)***

The Office of Terrorism and Financial Intelligence (TFI) is an agency of the United States Department of the Treasury. TFI marshals the department's intelligence and enforcement functions with the twin aims of safeguarding the financial system against illicit use and combating rogue nations, terrorist facilitators, weapons of mass destruction (WMD) proliferators, money launderers, drug kingpins, and other national security threats. The Office of Terrorism and Financial Intelligence is overseen by the Under Secretary of the Treasury for Terrorism and Financial Intelligence. TFI oversees the Office of Terrorist Financing and Financial Crimes, the Office of Intelligence and Analysis, the Office of Foreign Assets Control, the Financial Crime Enforcement



#### **RELATED NUMBERS STATIONS**

The "Counting Station" E05, E14, E21, G05, V05 (inactive since 2003)  
M25 (inactive since 1997)

**M25:** Officially, KKN50 was operated by the National Communications System (NSC) for the US Department of State. It was the CIA however who was running the show. KKN50 used at least one of the facilities of the Warrenton Training Center (WTC). Warrenton has/had five sites, 'Station A', 'Station B', Station C', Station D', and 'Station E'. WTC 'Station C' is located near Remington and is one of the homes of 'The Counting Station' [E05/V05]. The Office of Communications (OC) used 'Station D' at Culpepper, VA, as relay center and it was also the site that was used by KKN50.

KKN50 was but one of the many stations in the network. In official publications the stations were often listed with fake locations. A couple of the most active stations have been figured out over the years, though. One of the most active stations, besides KKN50, was OC Miami with callsign KKN39. Their routing indicators were RUEG and RUEGMI. Incidentally, the tactical call of KKN50 was BRANDY and its routing indicator was RUES.

The main players in the net were KKN39, KKN44, KKN50, KRH50, and KWS78. The network was last heard in 1997. Note: KKN44's signal was also found as part of VOA's feeder signal. Besides the numerous CW and RTTY transmissions of the main players, sometimes also other callsigns were logged:

*KUO29 clg KKN39*

*KKN50 clg KWT91 KRC81 KWT94 KWT94 KWT94 KPH7 KKN44*

*KWT91C clg KKN50*

*KKN44 clg 9GV*

*KGN clg KKN50*

#### List of related callsigns:

KGN39

KGO50

KKN32 Washington, DC, USA

KKN33

KKN35 Washington, DC, USA

KKN36

KKN39 Miami (possibly beamed to Central and S. America)

KKN40 Monrovia, Liberia

KKN41

KKN42

KKN43

KKN44 Monrovia, Liberia

KKN46 Possibly beamed to Central and S. America

KKN50 Department of State, Washington, DC, USA

KKN51 Washington, DC, USA

KKN52 Washington, DC, USA

KKN90

KLA24 La Paz, Bolivia

KPH07

KRC81

KRH50 Croughton, UK

KRH51 Croughton, UK (c/s was logged on 2 freqs on 29-10-2000)

KRH54 Moscow

KRH70

KRM32

KRZ66

KTR67 Beograd

KTR68 Budapest

KTR69 Praha

KTR70 Bucuresti

KUO29

KWK50 Tehran, Iran

KWK94  
KWK95 Cairo, Egypt  
KWK97 Warsaw, Poland  
KWL90 Clark AFB, Philippines  
KWM24  
KWN90  
KWR86 La Paz, Bolivia  
KWR94  
KWS78 Athens, Greece (was located at the Athens suburb of Varibobi, near Dekelia (Tatoi) airport  
LGTT. Site coordinates: 38d 06.9'N 23d 48.3'E. The site had a number of lattice towers  
supporting wire log periodic antennas.)  
KWT91  
KWT91C  
KWT94  
KWY29  
9GV Accra, Ghana

---

#### ***SOURCES / RELATED WEBSITES / FURTHER INFORMATION***

Wikipedia

CIA World Factbook

American Forces Press Service

[www.cia.gov](http://www.cia.gov)

Office of the Director of National Intelligence

[www.dia.mil](http://www.dia.mil)

Central Intelligence Agency

[www.doe.gov](http://www.doe.gov)

Defense Intelligence Agency

[www.dhs.gov](http://www.dhs.gov)

Department of Energy

[www.state.gov](http://www.state.gov)

Department of Homeland Security

[www.treasury.gov](http://www.treasury.gov)

Department of State

[www.dea.gov](http://www.dea.gov)

Department of the Treasury

[www.fbi.gov](http://www.fbi.gov)

Drug Enforcement Administration

[www.nga.mil](http://www.nga.mil)

Federal Bureau of Investigation

[www.nro.mil](http://www.nro.mil)

National Geospatial-Intelligence Agency

[www.nsa.gov](http://www.nsa.gov)

National Reconnaissance Office

[www.af.mil](http://www.af.mil)

National Security Agency

[www.army.mil](http://www.army.mil)

Air Force Intelligence

[www.uscg.mil](http://www.uscg.mil)

Army Intelligence

[www.marines.mil](http://www.marines.mil)

Coast Guard Intelligence

[www.navy.mil](http://www.navy.mil)

Marine Corps Intelligence

[www.dni.gov](http://www.dni.gov)

Navy Intelligence

[www.dhs.gov](http://www.dhs.gov)

Department of Homeland Security

Numbers stations references:

- Logs from the period 1989-1997 as published by WUN, SPEEDX, Popular Communications, Monitoring Times, and the Utility Newsletter
  - FAS [www.fas.org/irp/facility](http://www.fas.org/irp/facility)
  - Bob Grove's Shortwave Directory, edited by Larry van Horn
  - Embassy Radio Communications Workbook by Michiel Schaay
  - Guide to Embassy & Espionage Communications by Tom Kneitel
  - Underground Frequency Guide by Don Schimmel
-

## M89 MESSAGES noted by JPL

4512 kHz, 03-11, 2140 UTC:

/0393/11/04/0610/312/...6/18 AR  
UGT COMM BT 906/0.78/0393/11/04/0610/312/A/36/18 AR

---

3297 kHz, 05-11, 1751 UTC:

COMM K ..D BT 82162/7.03/0300/1.37/3901 AR AN AR

---

3797 kHz, 09-11, 2058 UTC:

ANDD NUU5 A7NT 5A4A 5TAA UN4U 7T3A ..AA 5N6U DAA7  
STD4 5UUA 6746 DN46 ND5U 65A4 .U73 6TTA N4T7 TN43  
T475 4NTN 4A4T TU6N 363A DT7T 5UUD 675U A.TD 4N6N .... ...  
(Cont'd – fading badly)  
AR

---

4590 kHz, 10-11, 1155 UTC, tfc in progress

NTN3 DT.. U75A .665 ..NA U575 4U7T .. (Cont'd)  
AR K K (1159z)  
R RPT 39 W = = 4N4T  
NR AS  
U UVVV 7MG GA K K (  
R R U EEE AMSG GA K K  
R R RPT K K  
R R R RPT TIME K  
I R R  
10. K K  
R R 11P.. K  
2.. K  
.2 RMKS 211.  
R R R 2 RPT 23 RPT 23 K K  
R U RPT 23.. K K  
RPT 23 W K  
R R NR 41 W GA K  
R R 41 W K  
R R 61W .. K  
= T 61W GA K K  
R R RPT 6. .. K  
RPT 62W  
RPT 6...  
R R RPT 72 GA  
R R 74  
R R 81.. K  
R R RPT 95W K  
R QSL 2018  
HR 416 K K (1218 UTC silent)  
(Checked 7607 and V WITN DE GNXG active - 1226z)

---

10779 kHz, 22-11, 2344 UTC:

HR SVC GA  
NR .9 0745 RMKS 1384. 2799/2794 =  
COMM/0830/LZ446A. 84/2799 AR  
QSL ? HR WK NR 14  
V WITN WITN WITN DE GNXG GNXG

---

4590 kHz, 06-11, 1130 UTC. In chat – Hand sent – Horrible CW

R R 38 K K  
R R  
2 K K  
R NR 4. K  
R R 5MIEEE 5 1W K  
..7 K K  
(Checked //7607 and WITN DE GNXG active)  
R R RP RPT MS 10. EE RPT O EEE RPT 1W TO 76 K K  
R R 7OSI 71W TO 76 K K  
71 TO 76 K K  
OK (1137z)  
R R GA GA K K  
R R 77 EEEE 77 TO 90 K K  
77 TO 90 K K  
R R N .T 85 TO . K K  
R R 87 K K  
R NR . N O KOK M QSL QSL 194 EEE QSL 19 EEE \*QSL 1940 K  
RR HR NR 4.. K K  
NR GB (1143 UTC silent)

---

4590 kHz, 10-11, 1258 UTC. Freq normally used by GNXG

VVV \*HY4G DE L... K\* (1258z)  
R R R  
QSY NR 02 K K  
\*HY4G DE L44. K\*  
QSY K QSY NR 02 K K (1300z)  
QSY NR 07 K K (1301z)  
R R QSA 2 ... NR NW \*HR 416\* K K  
R R (Silent - 1302z)(Probably QSY to another freq)  
(On 6 Nov callsign sent was \*YVG DE L44H, \*so HY4G and L44H  
would fit. I'm sure about HY4G and L44)

---

7607 kHz, 15-11, 1200 UTC:

HR SVC 89.. 2045/ AGN 764A4/1389/1219 AR  
QSL ? HR WK. NMR .5 (Return to R/S 1201z)

---

8855 kHz, 20-11, 040 UTC:

= = S3A TA? .. U6T4.. (Very weak)  
= = = = D3A. UAUD UDTU 6T74 UT45 A7NN ...  
(Cont'd – 0411Z, silent – 0415Z)  
= = ... DTU. DT.. 5..UUUU NAN5 546D 5T.. (Cont'd – 0417z)  
= = = = = 35TD 53T3 ... (Cont'd – 0421z)  
(Remote tuner timed out – lost access – 0424z)

---

8855 kHz, 20-11, 0438 UTC:

= A7UM 335D 74AA ... (In tfc)  
= = = = .....4NU TD.. (Cont'd – 0444z)

---

10180 kHz, 03-11, 0636 UTC. Long chat/message session:

U537 A7D4 6NT3 36NT 754N UND6 D443 5DUD 5A7D 6N56  
TU4T T763 AR AR K  
R = 574U AR K  
= ... AR (Data burst)  
= D635 AR  
= AA54  
= ADUN AR  
R  
= N5NT  
= A7DN AR  
= 7NA5 AR  
= UN7U AR  
R UMSG GA K  
GA K  
3 PK  
E4WK  
R  
97W K  
R  
QSL 1 EEEE QSL 1453 K  
HR MSG GA K  
R  
MSG NR 27 CK 199 95 1103 1400 =  
R  
T336 TNN7 344A UTT4 65NU 4UNA 6U67 473D TA7D TTA5D  
AU567D.....(Running groups together now)  
K  
R  
== T4ND AR  
== 5DU6 AR  
== TUT5 AR  
== N5D3 AR  
== DTAU AR  
== 7D3U AR  
== A3UD AR  
== A3UD AR  
== 5665 AR  
== 5665 AR  
== N764 AR  
== UU3D AR  
== 435D AR  
== D3NA AR  
== T56A AR  
== T56A D3NA 73AT 653T N5N7 477N 457A D5U5 AR  
== D3NA AR  
R  
== 64DU AR  
R  
R  
K K H =  
== 7AUT AR  
== 3FM TE == 3AU5 AR  
DAUT AR  
R  
HR MSG GA (0710Z)  
R E MSG NR 28 CK 299 51 1103 1400 =  
D  
R  
==  
7TNA A46N 3D54 UA6D D7N5 34NA7 6TT3 547A ... (Cont'd – very  
fast – 30 WPM)  
AR  
== = .. AR  
== 3U5U AR  
== 3U5U AR  
== 3N7A

= = TN36 AR  
= = 4T5N N74A 634A  
= = 4T5N N74A 634N 3D53 AR (Slowed down to normal speed – 20  
WPM)  
= = UTD4 AR  
= = NAD3 AR  
= = 5AN4 AR  
= = TN46 AR  
R  
K K ITNI AR  
= = 7DN7 AR  
= = DN4D AR  
= = 75D7 AR  
= = 5T64 AR  
= = 36UA AR  
R  
K K .N  
= CQD AR  
K K = = 5.E = = 54NA AR  
= = UDDA AR  
= NADT AR  
= = A443 AR  
= = 6T3D AR  
= = 3ADD AR  
= = U5A5 756D 65UT 653U 6ANT UDDA 54NA 67U3 46UA 3ADD AR  
K  
R  
UMSG GA  
R GA  
R  
R  
94  
4T4  
4T4  
=  
4P  
94 W  
E 5 96 EEE  
R INM  
1 P  
74 P E 74 III  
R 2P  
90W  
R  
60W  
R 70W  
R  
65WHR  
65W  
R SK  
INM  
R INM  
R INM  
R INM  
R  
QSL QSL 1552  
HR MSG K  
R E  
MSG NR 29 CK 299 51 1103 1400 =  
R  
== =  
3A74 A6A7 TDD4 U6DU 64A6 3UNA A46D 36NT TAD....(Cont'd – 30  
WPM)  
AR  
R  
= = AAN6 AR  
= = 7U3U AR  
K K = = 7T.7 AR

== = A34A AR  
== 6... AR  
== TN5U AR  
== 4AN5 AR  
== UA55 AR  
== 3UUT  
== NT5D AR  
== 3767 AR  
== 3D56 AR  
== 3D56 AR  
R  
== = DTD3 AR  
== DTD3 AR  
= (Slowed speed to 20 WPM)  
R  
K K = = 4756 AR  
== A7NE == = 7T.. AR R

= = 3D3U AR  
= = D4U5 AR  
D4U5 AR  
= = D4U5 AR  
R  
K K. AR  
K CEA AR  
K K K = = = U54T AR  
= = D63N D4U6 A64A AUA4 DTN4 AR  
R  
R  
HR MSG GA (0812z)  
MSG NR 30 CK 299 51 1103 1400 =  
R  
= = =  
T55A T34 7337 6536 N5T5 4... (Cont'd – 30 WPM)  
Stopped listening

4590 kHz, 06-11, 1154 UTC. In chat – Hand sent – Horrible CW

QSY NR 01 K K  
QSY  
R R QSA 2 K K  
R R K MS C = = 4EEEE C = = = 4041 K . K K  
AS  
HR MSG  
R RR NR .R 7G NR 3296 CK 96 44 1106 1940 RMKS = =  
2028 TO 3855 RM KS = =  
20.8 TO 3992 CY..  
R R R NR ..GA .. 737T T.65 2N2A .UU?  
1W GA = = =  
737T T.65 .? UNTT N475 3N6.  
AR K K  
R R R R  
GA K K  
MSG . K K  
RPT NR K K  
R R R 13 GA K  
QSL QSY NR 02 K K  
QSY NR QSY  
R R R GA  
R QSA 3 K K  
R R MSG 2W . Q.  
8W K K (1218z)  
R R ..1511W GA K K  
R R 28 K K  
NR  
.. TO 35 K K  
R R M 9 K K  
R R 41 TO 42 K  
EEEE  
R R 43 K K

R R .1 GA K K  
51W GA GA K  
EEE EEEEE EEEEE QSY NR 02 K K  
QYM QSY NR 2 K K  
R R R R R ..GA K  
. K K  
R R H EEE K K  
NR R 73 K K  
R R 74 K K  
.1 K K  
R R R R 75 TO 80 K K  
RR 75 S75 K K  
NR R R O. 3 TO 84 K K  
R R QSA..QSL QSL 204. K K K  
NR NR HR NR 5.6 K K  
R R (1242 UYC silent – WITN DE GNXG still active on //7607)  
QS. MNR 32 K K  
.YVG DE VEEE Y.G DE LU.I  
NR 3.. Z QSY .Y NR 32 K K  
YVG DE LAV.. K  
YVG DE L44H K\* K  
QSY NR 02 K K QSY VG  
QSY NR 02 K K  
4W DE L4A. K K  
QSY NR 02 QSY QSY NR QSY NR 02 K K  
YVG DE LVV5 K K (Control stn callsign sent differently each time!)  
Y.T ... DE EEE  
YVG DE L.V5\* K K  
QSY NR 32 K K  
QSY NR 32 K K  
R R QSY TO QSA 3 K K  
R R QSA 3 K K  
R R NR HR NR H.. CK . K K  
NR . GB (1307 UTC silent)

8015 kHz, 16-11, 0907 UTC:

5T54 3N5T 37U4 7U34 7T5. D46D DU54 74UI ? 74U6 A67D  
D5DA DUNN 63D7 DU5D D4TD T7T6 TD66 3676 74UD 54U7  
UAN. TA7U 6NN5 N55T 7U6D T546 73T3 3U6U 7NAD TU4U  
5A6T 7TAN N5UT 4557 A37T ..5? NTUD 43N7 ..53 754D  
AD.U 3AU3 3AND N4AN UAUT 6364 NAD7 ND75 AD36 5U56  
5474 355A U565 DNTN DNT7 TT6U T.3N T4T6 7NDT UAN7  
.34A 6AU5 DAUT 4A74 5466 4NNT 6AUA N.4DD 7T45 NA6A  
3535 NA47 A.5N 67D7 3567 D3UA T5UN U3N4 3753 D64U.  
553.. 74A .3UN AUTU A33T T4U4 N3ADE 4AU3 TD7N DU36  
3UA5 D4A4 II (0513Z) (Switched to automated sending)



==  
 UAA4 4U4U ? 7U34 ND43 6NDU 67DA DU47 U6D4 TA74 TTT6  
 3635 46NT N5TA NU34 NTNA UAA5 UN4T 7T65 T4DU U75D  
 UD67 UAU5 DN4T N5UD U6D3 T564 U65T 7AU7 7T43 ND53  
 53T4 5NTN ATUA T45N T635 7..4 ..3T5 TD6N 735A DUDN  
 7ANT 6N5D D7D3 N3U6 6ND7 T66U T76 ? T767 D4. (0515z)  
 K K  
 R R AGN  
 4T EEEE 45W == .D7 T..U T7.7 D44N NTD3 U4N. 6T5A 3.3N.. (hand sent)  
 DTU7 NT4N U.T6 45UT 7U5D TUA3 A34T ADU4 7AUT TU3A A676 4A.D N3DN  
 73N7 7ANA T65T 36T6 A56D .33U .DD. UND5 445A 4UT4 4AN. R K  
 R R 3W =  
 7UE4 AR K  
 == 4U4A EEEE = 4U4U AR K  
 99W =  
 4AN. AR K  
 R R  
 R R  
 70W =  
 DAUT AR K  
 1W = U56. AR K  
 4. W = 43N7 AR K  
 = NTUD AR K  
 = A37T AR K  
 36W = 73T3 AR K  
 33 W = N55T AR K  
 31W EEE 31W = TA7A EEEE = TA7U AR K  
 R R  
 HR MSG GA  
 M EEE  
 7G NR 54 CK 199 78 1116 1700 K  
 R R == =  
 N473 743A 6? 56NT UU5D 6UNT DT6A DTA. 53 (Cont'd)  
 AR  
 R R  
 == 5RDU AR == 5DU AR == 4D5A AR == 565N AR == T743 AR == D5NT AR == D5NT AR  
 R R (0934z)  
 == 6AT5 AR == ANA3 AR == DA64 AR == 6TAD AR == 6TAD AR == T4DA AR == 5T5A AR == U633 AR == 56NT AR  
 R AS (0937z)  
 HR 7G GA HR 7G GA  
 R R  
 MSG NR 55 CK 299 56 1116 1700 =  
 R  
 MSG NR 55 CK 299 56 1116 1700 =  
 U5T3 TN36 34N4 UT4A 65.N 4NA 6UT74 76D TA7D ... (Cont'd)  
 AR  
 AGN  
 R  
 == TTE AS AS (0953z)  
 U..U QSY TO NR 01 NR 01 U QSY TO NR 01 NR 01  
 U QSY TO NR 01 NR 01 K  
 U QSY TO NR 06 NR 06 U QSY TO NR 06 NR 06 K  
 R R T C  
 R R  
 R R R  
 == TN73 AR == TDTU AR == 6AAN AR == 5ND6 AR == 4TDA AR == A6N6 AR == 5NND AR == U73N AR  
 16W =  
 U73N  
 == 6A6A == D4T3 AR  
 == E  
 == DTU4 U445 6AD6 6A6A U73N AR  
 R R = 6..II  
 (Appears to be a change in format possible change of operator?)  
 = 6.. III  
 = DTU4 II = DTU4 III = U445 III  
 R R  
 == HT4A III == 5T4A 4757 ADDU 377A III  
 == U45N III = U45N III == U45N III = N743 III = 7.IU III

R R HR MSG GA K (1003z)  
R  
MSG NR 56 CK 299 56 1116 1700 =  
K R R = =  
U5TIEEEEEEE = =  
U5T3 TN36 U4N4 UT4A 6.3N 4UNA 6U... (Cont'd)  
D56D 3N54 DN76 74UU 3NN3 NT65 ? TT65 36TN T4AD 4D5N  
D653 74T7 N7D7 45U6 65DN A56A 5N65 NTA3 377A 736U  
AUDA D35T UN3U ANTU 4736 7DU7 T54 344U 6NN ? 6NT4 .N5A 7UD5 AT37  
T4.. 67D6 5DAU U7UN U5DT N37D UT4A ? UT4U 3NDT 734A T4UA  
UD43 6T4U ADU6 364N TDTU T? NTDU 4? 5N75 6AAN 5ND6 AT3A  
U54T 67.3 UA65 TN73 AR  
K K  
R  
= = TT64 III = N7D3 III  
R  
= D5AT III = D5AT III = AN6U III = AN6U III = AN63 III = AN63 III = 64UA III = T5TD III = TUU3 III = TUU3 III  
AGN AGN  
R R  
= 3AD7 III  
R U MSG GA K  
GA GA GA GA  
R R 130 GA K  
130 M GA K  
R R  
QSL 3 AR =  
QSL 8 AR K  
QSL .833 K  
GA GA  
R R 1P  
09W 80W 50W 70W 60W 40W 20W 30W 25W 25T  
28W EEEEE 25W TO 29W  
R QSL 1847 W EEEEE  
QSL 847 K  
QSL 1847  
R HR MSG GA K  
R R  
MSG NR 57 CK .99 56 1116 1700 =  
R R  
= = =  
T55A D354 7337 6536 N5T5 47DT 456N D54A TA7D TT44 43... (Cont'd)  
AGN  
R R  
K = UDD7 III  
= ... III = UNT3 III  
R R  
= D6TU III = D6TU III  
R R  
= UU35 III = UU35 III = 4675 III  
R R  
HR MG GA K  
MSG NR 58 CK 299 56 1116 1700 =  
R R = =  
T55A D354 7337 6536 N5T5 47DT 456N ... (Cont'd)  
UU53 AR  
R R  
= 5NTA III = T65A III = D5N6 III = TAU4 III = 3NA4 III = 5TT6 III = BNNI III  
R R R R  
NR  
= 366N III  
R U GA  
GA  
R R (1131  
QSL 1931 K  
R  
U GA  
C  
K19 CK 199 GA K

CK 199 GA K  
GA  
QSL 1940 K QSL 1940 K  
R SK GB (1139 UTC silent)

---

5656 kHz, 20-11, 1453 UTC:

7UA4 D5 EEEE 34U5 A3 XX 6U47AV ?  
VV .3D4 .. BZ EE AU34 567D T X X = = =  
5346 7UA. D5EWV AE R A / U5A3 BXU57V.DV  
= AX =  
5.55SHEEEEEEEEE  
S34NS 7UA4 D5.4 U5A3 6A. ? D4V7 EEEEE  
U43D 4AU. 3 D743 T4A Q TXT T B7. (1456z Voice on freq in background)  
K V..HT3 H7.. C7.3N 453NN7U3D4 64 ? 6 AIW  
NS44 ..ISIII I 3456 7AU3 5444 EEEE SI AA U345 4..  
7DNT AU34. 567 DT AU34 567D T K AR AR S IIII  
05 3454 56 =  
53546 CIUA4D43 4 / D4U AI A AU34 567DN AU53 6674 A... AU6 IESN U7U4 D734 NU44 T3X BAIE BBAV ...  
(Runs groups together with horrible CW fist!)  
3N4X  
R =  
5N53 4T =  
5.. BD = = = =  
434. 6N57 UA4 4D5.... (Cont'd)  
(Silent – 1505Z)

---

8789 kHz, 21-11, 0313 UTC:

NR 00. R R 1 (Handsent - very slow and weak CW)  
77 NA 0001 CK 11 DH K5 74 574  
7 7G 0001 CK 11 74 0121 0114 NO NMKS = =  
NO NMKS = = = =  
745D T NO MS = =  
7457 TO 7457 K (0317z)  
GA K//B (Other station on same frequency!!!- Rare occurrence)  
= = = =  
36A5 A7UD AATN U57. T4 EEE 7 T43T NU7D WT4A TN56 DTN7 .543 T37D  
K CK (0319z)  
NPT PK //B  
NPT T5 //B  
NPT 5W K//B  
T5W = =  
T43T C K  
NPT 6W K//B  
6W = =  
NU7D AR K  
NPT . W K//B  
.01W37D AR K  
O1W = = A3 ? NW = A3GT TN K  
NPT CW . GT CK .. //B  
NR 0 NGT CK K ..//B  
N TTPN C. NPT CK 0 = =  
0.1 N . PT CK 00 K  
.. //B  
TIME BME . K//B  
TE.GT TW NPT ... //B  
NW NPT .. TIME K //B  
RT T DPT TIM 0114 K  
NPT DATE K //B  
NPT DATE K //B  
NPT DATE 01.1 K  
N QSL 12 QSL 1130 QSL 0130 K//B  
QSL 1130 K //B  
SK  
K //B

N  
K GB SK //B  
=  
VV TM75 (Callsign?)  
K .. K K GB K //B (0332 UTC silent)

---

5656 kHz, 21-11, 1148 UTC:

7435 ND6T A5A3 74.T .6N7  
ADT5 47NA ..DT 6T  
5D6N 47U3 TA6U 43ND 57TA U364 5TN7 DAU3 4657 AD.T  
TNA4 6U7D 53T4 A765 UND3 D54. 67TA U345 DNA7 TU34  
56D7 NTAU 375 DUN3 T6A4 T45U U67D NTAU 4635 D7NT  
3AU7 46D5 NT45 56U7 N3.T .UND 4T35 67.5 UAN4 6.7N  
..7D T... 67D. N.U3 7456 DN4T 57UA 3674 T.UN 5A36 7DUT  
AR K  
R RR QSL 1955 QSL 1955 K//B (Both stations on same freq)  
R R 7. GA K  
R R NR NR 53. CK 159 93 1121 195 //B  
NR 534 CK 159 93 1121 1955 K //B  
N R GA K  
RRR GA  
R = = //B  
7TDA 6N45 U3D4 65N7 .U36 D47 ... (Cont'd - 1157z) // B  
AR QSL ? K (1209z) //B  
NR QSL 2008 K  
RRR S UG GA K  
NR TU GGAK  
R R NR 535 CK 159 93 1121 2009 II 7 //B  
NR 535 CK 159 93 1121 200 //B  
NR 535 CK 159 93 1121 2009 K //B  
K  
GA K  
R = =  
7D45 .A6NT U3A4 56NU 7TD - 7TD3 546U 7DN3 TA43 5T67 UNDA //B  
AR // B (1224z)  
R QSL 202. QSL 202. K  
R R QS. K K//B  
(Appears to have switched to voice)  
R R  
NR = =  
A1.2DN C3D4 III =  
.2.2DN CIII CI EEEE = =  
A1B2 DNC3 D.K  
QSL 2033 QSL 2033 K  
NR GA K  
NR 7G NR 540 CK 151 93 1121 2034  
7G NR 540 CK 151 93 1121 2034 K K  
GA K  
AU34 N657 DT3N T....(Cont'd )

---

8055 kHz, 22-11, 1128 UTC:

6U54 NA.N AIEU 4.. (Cont'd)  
AR AS (1139z)  
R R  
R R  
NR .4.UM. 8220 .7. K  
NR .356U.. U. 6UTD UN5A TU.. 7DU..  
(Cont'd – mostly unreadable – 1141z)

---

5656 kHz, 22-11, 1348 UTC:

AU7N AT5D 36U4 D54A 6N.. (Cont'd)  
AR QSL ? (1353z)  
QSL ? QSL ? K

R QSL 21.3 QSL 21.3 HR. GA K K//B (Both stations on this freq!)

R R GA K

NR 7G NR 570 CK 159 93 .1222 154 K K //B

R R PT TIME M K

NR 570 CK 159 93 1.222 EEEE K //B

R R GA K GA K

= = = //B

7TDA 6N45 U3D4 65T7 TAU3 6D47 T5.. (Cont'd) //B

QSL 220. QSL 2109 00 G K QSY USB

NR OK // B

R R (Appears to have switched to voice) (1408Z)

---

5656 kHz, 22-11, 1439 UTC

D3DA T4D5 6735 635U NA6D 6TA6 5D73 UU3T

---

8789 kHz, 23-11, 0716 UTC:

C K

K.S

N (Other station also appears to be on same freq, but extremely weak)

4

TSU4 WS .VV HU4. .N

. CJS Z KJ5 DE HHJF

UVUZ

VV ZEVV7 KJ..

VV VV VV 4.KJ.Z TJS.IO

= V U7KJIZ.JSSSJ

VV VV 7.ZKJS ZKJS DE HHOR K K (0723z) (Very weak signal, so unsure of these callsigns)

Q2..//B (Other station – very weak)

T2 AR K

QSA 2T H QSA 2 K

N C = CXX =

03R K

KE =

05 N H. CSEO 5..

503 K

GA K//B

MSG NR .9

MSG NR 01 K K

01 . 011 5 GS

7G NR 01 CK 199

R .. K

QSA 3 K //B

R R =

13345 AR K

CK .1 ..13 0

CK 11. 1123 .40.

MSG NR 013 CK 11. ..

---

8789 kHz, 23-11, 1316 UTC:

NPT NPT 1W = =

TAA4 TUTW E? ... AR K

NR R R.R R //B

NR R R R R R N QSL 2020 K//B

HR NR //B (Turns out //B is CONTROL STATION!)

HR NR K //B

NHRNR 20AA ?

HR NR 212A K

HR SNR 111 EEEE NNR R5 SF NR 21 EEEEE 201 K

HR NR 202 K

NR R R R SK SK K //B

UA GB

R GB .. //B

NU = HATT U ND D. 3AUT ...

V 7K1H DE HHJ. K //B (Unsure if correct – very weak and poor CW) (Earlier copied as ZKJS DE HHOR)



R 2... N 24 Q23 AQ23  
 QSA 3 OK .. //B  
 QSA 3 K//B  
 7H QSA 3 K  
 NR . C.= 05030 CK //B  
 C A= 7 K K  
 R R 7N.G .. //B  
 BD.V QT. NR .15 CK .2.. 123 71 0  
 N RMKS = =  
 8458 TO 8454 AR K //B  
 TT. AV3N TAU3 RUD. .5 //B  
 QSL 2.29 T  
 NR NR = = ... K//B  
 QSL 1120 K  
 7M.. //B  
 MSG NR 020 CK 11 74 .123 1145  
 NW CS 8 5 RMKS = =  
 8454 TO 8458 TANK  
 .NT //B  
 NU = =  
 B4DT 53TN .UD  
 GA K//B  
 = = =  
 B4DT 53TN 3UA7 7NUD AU3D NV.  
 R QSL QSL .. //B  
 QSL 1230 K (Silent - 1332z)

5801 kHz, 23-11, 1350 UTC:

(Callsign sent many times, but extremely hard to figure out)  
 \*... DE AAL5\* AS (Handsent – poor CW)(Unsure of callsign)  
 \*SISS S DE\* (Unsure of callsign)  
 DE  
 MSG 2  
 .. VA (Silent - 1357z)

## LOGS SECTION

frequency	date	UTC	enigma	day	remarks	mode	contributor
2406	9-11-2012	2110	M01b	Fri	ip, "610 (R) 357 357 30 30 = = 14665 93t99...= = 357 357 30 30 0 0 0	CW	(Q-HOL)
2406.1	30-11-2012	2114	M01b	Fri	ip, faint	CW	(Q-HOL)
2427	5-11-2012	2016	M01b	Mon	"357 (R) 3t 3t = = 14665...msg" //3206 kHz	CW	(Q-HOL)
2486.1	15-11-2012	2042	M01b	Thu	faint	CW	(Q-HOL)
2656.1	16-11-2012	2015	M01b	Fri	Slow 5FGs ending 84666 84666 51415 51415 = = 357 357 30 000 //3205.1 kHz	CW	(MPJ/Q-HOL)
2667	15-11-2012	2209	M32	Thu	Russian Mil. "DHCQ de DVKZ QXS K. DHCQ de DVKZ QXS AR"	CW	(MPJ)
2680	20-11-2012	2026	M22	Tue	4XZ: Isr-N Haifa	CW	(SW2)
2713	3-11-2012	1812	RMv	Sat	Russian Mil. "Pole-91"	USB	(SSH)
2713	3-11-2012	1817	RMv	Sat	Russian Mil. "Vyborg-2" and "Salma-81"	USB	(SSH)
2745	10-11-2012	2004	UMv	Sat	Ukrainian Mil. (tentative) SHKODA-49, ya VISHNYA-46, priyom (same as 4605 kHz on 8-11)	USB	(SSH)
3160	1-11-2012	2040	M01b	Thu	Only got last part of tx: ..... = 357 357 30 30 i00	CW	(FYM)
3180	9-11-2012	2110	M01b	Fri	ip, "610 (R) 357 357 30 30 = = 14665 93t99...= = 357 357 30 30 0 0 0	CW	(Q-HOL)
3192	13-11-2012	1900	S06	Tue	349 0	AM	(HFD)
3192	19-11-2012	1900	S06	Mon	349 0	AM	(HFD)
3192	26-11-2012	1900	S06	Mon	349 349 349 00000	AM	(HS2)
3205.1	12-11-2012	2022	M01b	Mon	ip, very faint	CW	(Q-HOL)
3206	5-11-2012	2016	M01b	Mon	"357 (R) 3t 3t = = 14665...msg" //2427 kHz	CW	(Q-HOL)
3207	14-11-2012	1059	M89	Wed	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)

frequency	date	UTC	enigma	day	remarks	mode	contributor
3207	14-11-2012	1609	M89	Wed	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3207	14-11-2012	1807	M89	Wed	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3207	14-11-2012	1955	M89	Wed	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3207	14-11-2012	2208	M89	Wed	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3212	17-11-2012	1930	S06	Sat	843 0	AM	(HFD)
3212	24-11-2012	1930	S06	Sat	843 0	AM	(HFD)
3220	23-11-2012	2238	M32	Fri	Russian Mil. "TGXZ de BUWV COL COR SOG = 586. TGXZ de BUWV QCZ K"	CW	(BCI)
3297	1-11-2012	2018	M89	Thu	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	3-11-2012	1610	M89	Sat	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	3-11-2012	1746	M89	Sat	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	3-11-2012	2007	M89	Sat	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	3-11-2012	2107	M89	Sat	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	3-11-2012	2206	M89	Sat	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	4-11-2012	1218	M89	Sun	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	4-11-2012	1416	M89	Sun	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	4-11-2012	1945	M89	Sun	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	5-11-2012	1318	M89	Mon	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	5-11-2012	1430	M89	Mon	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	5-11-2012	1742	M89	Mon	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	5-11-2012	1750	M89	Mon	COMM K ..D BT 82162/7.03/0300/1.37/3901 AR AN AR. V GKVZ (x3) DE Q7NW (x2)	CW	(JPL)
3297	5-11-2012	1927	M89	Mon	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	5-11-2012	2127	M89	Mon	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	7-11-2012	1903	M89	Wed	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	8-11-2012	2229	M89	Thu	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	9-11-2012	1340	M89	Fri	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	9-11-2012	2057	M89	Fri	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	11-11-2012	1529	M89	Sun	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	11-11-2012	2154	M89	Sun	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	12-11-2012	2135	M89	Mon	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	15-11-2012	1134	M89	Thu	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	18-11-2012	1933	M89	Sun	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	19-11-2012	1515	M89	Mon	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	19-11-2012	1851	M89	Mon	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	19-11-2012	2139	M89	Mon	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	21-11-2012	1145	M89	Wed	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	21-11-2012	2040	M89	Wed	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	22-11-2012	1343	M89	Thu	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	22-11-2012	1531	M89	Thu	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	23-11-2012	1409	M89	Fri	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	23-11-2012	1717	M89	Fri	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	23-11-2012	1933	M89	Fri	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	23-11-2012	2226	M89	Fri	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	25-11-2012	1813	M89	Sun	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	25-11-2012	2216	M89	Sun	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	26-11-2012	1340	M89	Mon	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	26-11-2012	2025	M89	Mon	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	27-11-2012	1511	M89	Tue	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	27-11-2012	2010	M89	Tue	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3322	2-11-2012	1951	M21	Fri	Russian Air Defence =992351??0?????. //3322	CW	(MPJ)
3322	14-11-2012	2011	M21	Wed	Russian air defence =990012??0?????	CW	(PPA)
3322	15-11-2012	2140	M21	Thu	PVO =990141??0?????	CW	(JPL)
3323	1-11-2012	1842	S21	Thu	323-248/32=41087 //3823	AM	(HFD)
3323	6-11-2012	1841	S21	Tue	323 000 //3823 kHz	USB	(Q-HOL)
3323	8-11-2012	1850	S21	Thu	in progress	USB	(ASH)
3323	13-11-2012	1842	S21	Tue	323 000 //3823 kHz	USB	(Q-HOL)

frequency	date	UTC	enigma	day	remarks	mode	contributor
3323	22-11-2012	1842	S21	Thu	323 (R) msg //3823 kHz	USB	(Q-HOL)
3326.5	2-11-2012	2120	M32	Fri	Russian Military NCS ip ... WYKBL BEKGZ K. His only QSX stn asks for repeats and QSLs CQZS R 437 K.	CW	(MPJ)
3335	15-11-2012	2143	MX	Thu	Beacon "V"	CW	(JPL)
3399	14-11-2012	2006	M32	Wed	CIS mil. "MLPK DE LOI5 QSA1 QSA?"	CW	(PPA)
3519	12-11-2012	1910	M01b	Mon	853 ... 0 = ... Unreadable	CW	(SW2)
3526	6-11-2012	1807	M45	Tue	ip, "msg t t t" //4026 kHz	CW	(Q-HOL)
3526	6-11-2012	1807	M45	Tue	ip, msg t t t //4026 kHz	CW	(Q-HOL)
3594	5-11-2012	2131	M32	Mon	XXX XXX 4R8P 4R8P 34905 ROZUMINNAe 0791 34905 ROZUMINNAe 0791 (Repeated) K	CW	(JU)
3622	14-11-2012	1820	E06	Wed	154 22222 (nothing else)	USB	(MPJ)
3622	14-11-2012	1920	E06	Wed	154 00000	USB	(Spec/HFD)
3626	17-11-2012	2100	S06	Sat	416 0	AM	(HFD)
3626	17-11-2012	2100	S06	Sat	416 416 416 00000	AM	(Q-HOL)
3642	7-11-2012	1929	M89	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5230	CW	(JPL)
3642	15-11-2012	1719	M89	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5230	CW	(JPL)
3642	15-11-2012	2124	M89	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5230	CW	(JPL)
3642	16-11-2012	1907	M89	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5230	CW	(JPL)
3642	19-11-2012	2148	M89	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5230	CW	(JPL)
3642	20-11-2012	1540	M89	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
3642	21-11-2012	2046	M89	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5230	CW	(JPL)
3642	21-11-2012	2314	M89	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5230	CW	(JPL)
3642	23-11-2012	1433	M89	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5230	CW	(JPL)
3642	23-11-2012	1942	M89	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5230	CW	(JPL)
3642	26-11-2012	2038	M89	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
3715	12-11-2012	1350	S06c?	Mon	226 226 226 61257 61257 (rptd 2m30s) 226 226 21257 61257 44444 44444 (sent once) 61977 (rptd 1m.30s) 11111 11111 00000 00000	USB	(Avare)
3754	5-11-2012	1700	G06	Mon	154 0	AM	(HFD)
3754	12-11-2012	1605	G06	Mon	Testcount 123456789	AM	(Avare/FYM)
3754	12-11-2012	1700	G06	Mon	154 154 154 00000	AM	(AB)
3754	12-11-2012	1800	G06	Mon	154 154 154 00000	USB	(FYM)
3754	12-11-2012	1811	G06	Mon	test count 123456789	USB	(FYM)
3756	6-11-2012	2029	S30	Tue	Russian Mil. Pip channel marker	CW	(AB)
3756	12-11-2012	0356	S30	Mon	8S1Shch 51 351 SMEHOTA 72 90 78 69 priyom	USB	(Avare)
3756	28-11-2012	1736	S30	Wed	dIya TUZR 5Y7SHCH 27SHCH? N1DU 43OB 78NV ?NSV YG?Z 12CHI 79AY	USB	(FYM)
3758	12-11-2012	0944	S32	Mon	Squeaky Wheel on 3794//3828//3758 kHz	USB	(Avare)
3763	7-11-2012	2004	S06	Wed	ip, OM/RR, msg null null null null null	USB	(Q-HOL)
3777	10-11-2012	2220	M32	Sat	Russian Mil. .... 85288 26482 87482 11050 k (no further tfc)	CW	(WP3)
3794	12-11-2012	0944	S32	Mon	Squeaky Wheel on 3794//3828//3758 kHz	USB	(Avare)
3797	2-11-2012	1833	M89	Fri	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
3797	3-11-2012	1610	M89	Sat	(In tfc - 4 fig cut tfc until 1612z) AR V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
3797	3-11-2012	1747	M89	Sat	(In tfc - 4 fig cut tfc until 1748z) AR V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
3797	3-11-2012	1925	M89	Sat	(In tfc - 4 fig cut tfc until 1926z) AR V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
3797	3-11-2012	2003	M89	Sat	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
3797	3-11-2012	2104	M89	Sat	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
3797	3-11-2012	2140	M89	Sat	(In tfc) V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
3797	4-11-2012	1226	M89	Sun	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
3797	4-11-2012	1418	M89	Sun	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
3797	4-11-2012	1947	M89	Sun	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
3797	5-11-2012	1432	M89	Mon	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
3797	5-11-2012	1744	M89	Mon	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
3797	5-11-2012	1931	M89	Mon	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)

frequency	date	UTC	enigma	day	remarks	mode	contributor
3797	5-11-2012	2125	M89	Mon	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
3797	6-11-2012	1153	M89	Tue	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
3797	6-11-2012	1329	M89	Tue	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
3797	7-11-2012	1907	M89	Wed	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
3797	9-11-2012	2058	M89	Fri	DRV8 in tfc "ANDD NUU5 A7NT 5A4A 5TAA UN4U 7T3A ..AA 5N6U DAA7" etc	CW	(JPL)
3797	10-11-2012	1243	M89	Sat	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
3797	11-11-2012	1117	M89	Sun	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
3797	11-11-2012	2156	M89	Sun	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
3797	14-11-2012	1057	M89	Wed	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
3797	14-11-2012	1809	M89	Wed	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
3797	15-11-2012	1132	M89	Thu	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
3797	18-11-2012	1331	M89	Sun	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
3797	19-11-2012	1517	M89	Mon	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
3797	19-11-2012	2141	M89	Mon	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
3797	20-11-2012	1217	M89	Tue	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
3797	21-11-2012	2042	M89	Wed	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
3797	22-11-2012	1345	M89	Thu	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
3797	22-11-2012	1533	M89	Thu	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
3797	23-11-2012	1411	M89	Fri	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
3797	23-11-2012	1457	M89	Fri	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
3797	23-11-2012	1719	M89	Fri	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
3797	23-11-2012	1935	M89	Fri	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
3797	23-11-2012	2228	M89	Fri	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
3797	25-11-2012	1815	M89	Sun	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
3797	25-11-2012	2216	M89	Sun	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
3797	26-11-2012	1342	M89	Mon	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
3797	26-11-2012	2027	M89	Mon	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
3797	26-11-2012	2110	M89	Mon	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
3797	27-11-2012	1512	M89	Tue	In tfc "6D.. 33.3 .455 6U7T NA7U NT74 7..6 35.T ..5. NN4. AR" V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
3803	17-11-2012	1957	M18	Sat	0057 0057 0057 ...	CW	(FN)
3803	18-11-2012	2115	M18	Sun	0215 0215 0215 ...	CW	(AB)
3803	19-11-2012	2158	M18	Mon	0258 0258 0258 0259 ....	CW	(AB)
3803	22-11-2012	1936	M18	Thu	0336 0336 0336 (UTC+8)	CW	(PPA)
3803	28-11-2012	1955	M18	Wed	0055 0055 0055 ...	CW	(FN)
3803	29-11-2012	2049	M18	Thu	0249 0249 0250 ...	CW	(AB)
3809	20-11-2012	1902	RMv	Tue	Russian Mil. Izba-74 wkg Gudron-90, Agat-99	USB	(SSH)
3809	22-11-2012	1735	---	Thu	ZJL4: station transmits two ten minute time slots each hour	CW	(AT)
3812	14-11-2012	2020	E06	Wed	154 0	AM	(HFD)
3823	1-11-2012	1842	S21	Thu	323-248/32=41087 //3323	AM	(HFD)
3823	6-11-2012	1841	S21	Tue	323 000 //3323 kHz	USB	(Q-HOL)
3823	13-11-2012	1842	S21	Tue	323 000 //3323 kHz	USB	(Q-HOL)
3823	20-11-2012	1843	S21	Tue	323 248 32 32	USB	(FYM)
3823	22-11-2012	1842	S21	Thu	323 (R) msg //3323 kHz	USB	(Q-HOL)
3825	24-11-2012	2055	M32	Sat	Russian Mil. FAGI DE 2W8O K //3862 kHz	CW	(Gwr)
3826	26-11-2012	0545	---	Mon	Unid mil?	USB	(NC)
3828	6-11-2012	2028	S32	Tue	Russian Mil. Squeaky Wheel channel marker	USB	(AB)
3828	12-11-2012	0944	S32	Mon	Squeaky Wheel on 3794//3828//3758 kHz	USB	(Avare)
3828	18-11-2012	2122	M32	Sun	Russian Mil. "Squeaky Wheel" marker	USB	(AB)
3838	1-11-2012	1905	S06	Thu	349 0	AM	(HFD)
3838	5-11-2012	1905	S06	Mon	349 0	AM	(HFD)
3838	15-11-2012	1900	S06	Thu	349 00000	USB	(Spec)
3862	24-11-2012	2055	M32	Sat	Russian Mil. FAGI DE 2W8O K //3825 kHz	CW	(Gwr)
3889.5	19-11-2012	1830	UMv	Mon	Ukrainian Mil. Mikron-83 clg Kozhukh-97 and Konvoy-34	USB	(SSH)

frequency	date	UTC	enigma	day	remarks	mode	contributor
4017	15-11-2012	1940	M42	Thu	Russian Intel. Msg like: 00000+++++++ 162)5761	RTTY/186/500	(MPJ)
4025	13-11-2012	1802	M45	Tue	525 24 8 32 = (M45 and M14 use the same hardware?)	USB	(FYM)
4026	6-11-2012	1807	M45	Tue	ip, msg t t t //3526 kHz	CW	(Q-HOL)
4026	6-11-2012	1807	M45	Tue	ip, "msg t t t" //3526 kHz	CW	(Q-HOL)
4029	21-11-2012	2240	M12	Wed	460 460 460 1 (R) 565 69 565 69 msg 000 000	CW	(Q-HOL)
4048	20-11-2012	2220	M42	Tue	Russian Intel. 11? messages in blocks of 4.	FSK 200/1000	(MPJ)
4054	25-11-2012	1900	XM	Sun	Long audible		(FYM)
4079	16-11-2012	1711	M32a	Fri	Russian Navy "REO DE RMP QTC 613 .57 16 2010 613 BT"	CW	(JPL)
4079	26-11-2012	1730	M32a	Mon	RMP: Russian Navy Kaliningrad, i.p. "... PUNKT NAWIP 013 1555UARTA 26201 ROLIW SKAGERRAK OMEONX SWETÄQEGO ZNAKA WEKKER 58 TIRE 42 TÖK 95 0 1 TIRE 09 ZK 5W IE SEJSTWUET AR"	CW	(MOR)
4225	1-11-2012	1326	M89	Thu	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL)
4225	1-11-2012	1610	M89	Thu	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL)
4225	1-11-2012	2012	M89	Thu	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
4225	1-11-2012	2316	M89	Thu	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL)
4225	5-11-2012	1005	M89	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL)
4225	5-11-2012	1250	M89	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL)
4225	5-11-2012	1738	M89	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
4225	5-11-2012	1925	M89	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
4225	5-11-2012	2326	M89	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL)
4225	6-11-2012	1126	M89	Tue	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL)
4225	6-11-2012	1326	M89	Tue	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL)
4225	7-11-2012	1841	M89	Wed	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL)
4225	9-11-2012	1332	M89	Fri	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL)
4225	12-11-2012	1325	M89	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL)
4225	14-11-2012	1058	M89	Wed	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL)
4225	14-11-2012	1603	M89	Wed	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL)
4225	14-11-2012	1803	M89	Wed	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL)
4225	15-11-2012	1128	M89	Thu	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL)
4225	18-11-2012	1918	M89	Sun	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL)
4225	19-11-2012	1511	M89	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL)
4225	19-11-2012	1847	M89	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL)
4225	20-11-2012	1443	M89	Tue	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL)
4225	21-11-2012	0310	M89	Wed	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL)
4225	21-11-2012	2328	M89	Wed	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL)
4225	23-11-2012	1349	M89	Fri	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL)
4225	23-11-2012	1456	M89	Fri	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL)
4225	23-11-2012	1715	M89	Fri	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL)
4225	26-11-2012	1336	M89	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL)
4225	26-11-2012	2017	M89	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
4331	10-11-2012	2154	M22	Sat	4XZ: Haifa VVV DE 4XZ 4XZ = DE 4XZ 4XZ = =	CW	(WP3)
4409.9	14-11-2012	1944	M42	Wed	Russian Gov/Intel. 200 group 5F message with use of =50= group indicator, message header 672 200 14 1914 2413=	Baudot 1,5 stb/50/500E	(PPA)
4435	7-11-2012	2009	RMv	Wed	Magnit to Meteor. Respond, Meteor. I hear you well. priyom	USB	(SSh)
4441	2-11-2012	2000	G11	Fri	261/38=70709	CW	(HFD)
4441	4-11-2012	2000	G11	Sun	261/38=70709	USB	(HFD/Q-HOL)
4441	9-11-2012	2000	G11	Fri	262/00	USB	(Spec/FYM)
4441	11-11-2012	2000	G11	Sun	262/00	USB	(Q-HOL/Spec)
4441	16-11-2012	2001	G11	Fri	565/00	USB	(Spec/Q-HOL)
4441	18-11-2012	2000	G11	Sun	565/00	USB	(Q-HOL)
4441	23-11-2012	2000	G11	Fri	262/00	USB	(AB)
4441	25-11-2012	2100	G11	Sun	262/00	USB	(FYM)
4441	30-11-2012	2000	G11	Fri	565/00	USB	(Q-HOL)



frequency	date	UTC	enigma	day	remarks	mode	contributor
4451.5	20-11-2012	1827	M32c	Tue	... HZ? YT?S R? LOGNI ONE RA AXS D YNKR ZUKWIWALII KGCQW OUQCU ZWDFC SX?II ACQUW	CW	(TR2)
4452	3-11-2012	2130	S06	Sat	314 314 314 00000	AM	(Q-HOL/HFD)
4452	17-11-2012	2130	S06	Sat	314 0	AM	(HFD)
4452	17-11-2012	2130	S06	Sat	314 314 314 00000	AM	(Q-HOL/HFD)
4467	5-11-2012	1801	G06	Mon	154 00000 (single 154 group)	AM	(Avare/HFD)
4474	7-11-2012	1931	M89	Wed	V RXP7 (x3) DE CZT2 (x2) (Cont'd) //5230	CW	(JPL)
4474	7-11-2012	2055	M89	Wed	V RXP7 RXP7 RXP7 DE CZT2 CZT2	CW	(PPA)
4474	14-11-2012	0107	M89	Wed	V RXP7 (x3) DE CZT2 (x2) (Cont'd) //5230	CW	(JPL)
4474	14-11-2012	1758	M89	Wed	V RXP7 (x3) DE CZT2 (x2) (Cont'd) //5230	CW	(JPL)
4474	15-11-2012	1715	M89	Thu	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	CW	(JPL)
4474	15-11-2012	2121	M89	Thu	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	CW	(JPL)
4474	16-11-2012	1718	M89	Fri	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	CW	(JPL)
4474	16-11-2012	1909	M89	Fri	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	CW	(JPL)
4474	16-11-2012	2007	M89	Fri	V RXP7 de CZT2.	CW	(MPJ)
4474	18-11-2012	1858	M89	Sun	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	CW	(JPL)
4474	19-11-2012	2151	M89	Mon	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	CW	(JPL)
4474	20-11-2012	1536	M89	Tue	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	CW	(JPL)
4474	21-11-2012	2048	M89	Wed	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	CW	(JPL)
4474	21-11-2012	2312	M89	Wed	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	CW	(JPL)
4474	23-11-2012	1940	M89	Fri	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	CW	(JPL)
4474	25-11-2012	2258	M89	Sun	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	CW	(JPL)
4474	26-11-2012	2042	M89	Mon	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	CW	(JPL)
4489	17-11-2012	2000	S06	Sat	416 0	AM	(HFD)
4490	6-11-2012	2001	M01	Tue	ip, 5FSG, "197 (R) msg = = tt2 tt2 3t 3t ttt"	CW	(Q-HOL)
4490	8-11-2012	2003	M01b	Thu	197 (R) ...82031 82031 06657 06657 = = 725 725 30 30 0 0 0	CW	(Q-HOL)
4490	13-11-2012	2000	M01	Tue	Start missed ... 61599 73338 46864 = = 800 30 0 0 0	CW	(MPJ/Q-HOL)
4490	18-11-2012	2003	M01b	Sun	ip	CW	(Q-HOL)
4490	22-11-2012	2042	M01b	Thu	ip	CW	(Q-HOL)
4490	27-11-2012	2000	M01	Tue	197 273 30 = = 28543 36958 ... 17558 46350 = = 27322730 (as sent) 273 30 30 0 0 0	CW	(MPJ)
4490	29-11-2012	1807	M01	Thu	Start missed. (Ends) 52150 07278 // 318 318 30 30 0 0 0.	CW	(MPJ)
4494	8-11-2012	2129	M21	Thu	Russian Air Defence =99t129??8?????	CW	(Q-HOL)
4512	1-11-2012	1331	M89	Thu	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
4512	1-11-2012	1614	M89	Thu	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
4512	1-11-2012	2025	M89	Thu	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
4512	2-11-2012	1601	M89	Fri	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
4512	2-11-2012	1833	M89	Fri	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
4512	3-11-2012	1610	M89	Sat	(In tfc - 4 fig cut tfc until 1612z) AR V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
4512	3-11-2012	1747	M89	Sat	(In tfc - 4 fig cut tfc until 1748z) AR V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
4512	3-11-2012	1925	M89	Sat	(In tfc - 4 fig cut tfc until 1926z) AR V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
4512	3-11-2012	2003	M89	Sat	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
4512	3-11-2012	2104	M89	Sat	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
4512	3-11-2012	2140	M89	Sat	DRV8 tfc "/0393/11/04/0610/312/...6/18 AR UGT COMM BT 906/0.78/0393/11/04/0610/312/A/36/18 AR	CW	(JPL)
4512	4-11-2012	1226	M89	Sun	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
4512	4-11-2012	1418	M89	Sun	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
4512	4-11-2012	1947	M89	Sun	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
4512	5-11-2012	1011	M89	Mon	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
4512	5-11-2012	1256	M89	Mon	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
4512	5-11-2012	1432	M89	Mon	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
4512	5-11-2012	1744	M89	Mon	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)



frequency	date	UTC	enigma	day	remarks	mode	contributor
4512	5-11-2012	1931	M89	Mon	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
4512	5-11-2012	2125	M89	Mon	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
4512	6-11-2012	1153	M89	Tue	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
4512	6-11-2012	1329	M89	Tue	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
4512	7-11-2012	1907	M89	Wed	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
4512	9-11-2012	1342	M89	Fri	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
4512	10-11-2012	1243	M89	Sat	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
4512	11-11-2012	1117	M89	Sun	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
4512	11-11-2012	1531	M89	Sun	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
4512	11-11-2012	2156	M89	Sun	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
4512	12-11-2012	1331	M89	Mon	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
4512	12-11-2012	2136	M89	Mon	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
4512	14-11-2012	1057	M89	Wed	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
4512	14-11-2012	1611	M89	Wed	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
4512	14-11-2012	1809	M89	Wed	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
4512	14-11-2012	1957	M89	Wed	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
4512	14-11-2012	2135	M89	Wed	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
4512	14-11-2012	2206	M89	Wed	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
4512	15-11-2012	1132	M89	Thu	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
4512	16-11-2012	1213	M89	Fri	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
4512	16-11-2012	2158	M89	Fri	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
4512	18-11-2012	1331	M89	Sun	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
4512	18-11-2012	1935	M89	Sun	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
4512	19-11-2012	1517	M89	Mon	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
4512	19-11-2012	2141	M89	Mon	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
4512	21-11-2012	2042	M89	Wed	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
4512	22-11-2012	1005	M89	Thu	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
4512	22-11-2012	1345	M89	Thu	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
4512	22-11-2012	1533	M89	Thu	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
4512	23-11-2012	1411	M89	Fri	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3297	CW	(JPL)
4512	23-11-2012	1457	M89	Fri	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3297	CW	(JPL)
4512	23-11-2012	1719	M89	Fri	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3297	CW	(JPL)
4512	23-11-2012	1935	M89	Fri	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3297	CW	(JPL)
4512	23-11-2012	2228	M89	Fri	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3297	CW	(JPL)
4512	25-11-2012	1815	M89	Sun	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
4512	25-11-2012	2216	M89	Sun	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
4512	26-11-2012	1342	M89	Mon	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
4512	26-11-2012	2027	M89	Mon	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
4512	26-11-2012	2110	M89	Mon	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
4512	27-11-2012	1512	M89	Tue	(In tfc) V H2FL (x3) DE DRV8 (x2)(Cont'd) // 3797	CW	(JPL)
4512	27-11-2012	2012	M89	Tue	(In tfc) V H2FL (x3) DE DRV8 (x2)	CW	(JPL)
4519	22-11-2012	1833	G06	Thu	ip	AM	(HFD)
4525	6-11-2012	0550	S28	Tue	Buzzer on 4525 and 4625 kHz	USB	(RS.ru)
4525	6-11-2012	0715	S28	Tue	Buzzer on 4525 and 4625 kHz	USB	(Avare)
4542	2-11-2012	1749	RMv	Fri	Russian Mil. 68 calling 09 and 28 (female) calling 09	USB	(SSH)
4542	2-11-2012	1820	RMv	Fri	Russian Mil. Conversation about electronic items	USB	(SSH)
4557.7	13-11-2012	2225	MX	Tue	Beacon D Odessa/Sevastopol.	CW	(MPJ)
4557.7	27-11-2012	2117	MX	Tue	Beacon "D" Odessa/Sevastopol	CW	(MPJ)
4557.8	27-11-2012	2118	MX	Tue	Beacon "P" Kaliningrad	CW	(MPJ)
4557.8	29-11-2012	0006	MX	Thu	Beacon "P" Kaliningrad	CW	(SW2)
4557.9	13-11-2012	2226	MX	Tue	Beacon S Severomorsk.	CW	(MPJ)
4557.9	27-11-2012	2119	MX	Tue	Beacon "S" Severomorsk	CW	(MPJ)
4557.9	29-11-2012	0008	MX	Thu	Beacon "S" Severomorsk	CW	(SW2)
4558	13-11-2012	2227	MX	Tue	Beacon C Moscow.	CW	(MPJ)
4558	17-11-2012	2000	MX	Sat	Marker "C" - Moscow	CW	(TR2)
4564	14-11-2012	2140	E07a	Wed	815 1 33633 101 53 51966 ... 96870 000 000	USB	(Spec/Q-HOL)
4564	28-11-2012	2140	E07a	Wed	815 815 815 000	USB	(MPJ)

frequency	date	UTC	enigma	day	remarks	mode	contributor
4565	24-11-2012	1125	M32	Sat	XXX XXX GQV6 GQV6 35431 PROIZNOSHENIE 6658 0025 7410 K	CW	(Gwr)
4580.5	3-11-2012	2220	M32a	Sat	Russian navy "rjd99 de rmjz 881 26 4 0202 881 = for rjd99 = 04072 52387 91542 37338 00116 02185 23998 00131 64707 18661 49208 48308 14149 2204 46173 01467 86844 80173 179 73491 68392 78261 41910 75521 04024 = rmjz k"	CW	(WP3)
4580.5	4-11-2012	----	M32a	Sun	Russian navy "rjd99 de ras82 qsa? qtc k"	CW	(WP3)
4580.5	4-11-2012	----	M32a	Sun	Russian navy "rjd99 de rhn88 316 94 0901 316 = 26356 35940 48574 84896 70024 22274 19237 70712 .... __ 84896 222 19237 74713 00"	CW	(WP3)
4580.5	4-11-2012	0010	M32a	Sun	Russian navy "rjd99 de rhp86 960 17 4 0350 960 = for rjh45 rjh74 rjd90 = 04001 99664 10407 41/99 /1110 10012 40086 58048 70022 8//// 22200 00060 20101 04015 = + rhp86 k"	CW	(WP3)
4580.5	4-11-2012	0015	M32a	Sun	Russian navy "rjd99 de rmjz 569 20 4 0400 569 = for rjh74 rjd90 = 04001 99651 10368 41498 91408 10020 40100 51000 70202 80000 22200 00/// 2//// 314// 4//// 5//// 6//// 04017 = + rmjz k"	CW	(WP3)
4580.5	4-11-2012	0210	M32a	Sun	Russian navy "rjd99 de rmb81 794 11 4 0759 794 = for __ 61 1804 ... qrm ..."	CW	(WP3)
4580.5	4-11-2012	0400	M32a	Sun	Russian navy "rjd99 de rmjz 658 20 4 1002 658 = for rjh74 rjd90 = 04061 99651 10367 41498 91408 10020 40102 51__ 70202 80000 22200 00/// 2//// 314// 4//// 5//// 6//// 04017 = + rmjz k"	CW	(WP3)
4580.5	4-11-2012	0400	M32a	Sun	Russian navy "rjd99 de rmjz 487 16 4 0750 487 = for rjd99 = 80565 82987 35514 49142 45332 64736 37237 36638 57799 21396 98998 93196 80971 93846 04014 = + rmjz k"	CW	(WP3)
4580.5	4-11-2012	0610	M32a	Sun	Russian navy "rjd99 de ras82 qsa? qtc k - 661 17 4 1003 661 = for rjd90 rjh74 = 04061 99652 10355 41397 81205 10020 49980 57010 75025 886// 22200 00037 25101 88000 04014 = ras82 k"	CW	(WP3)
4580.5	5-11-2012	0010	M32a	Mon	Russian Navy "rjd99 de rmjz 334 20 5 0405 334 = for rjh74 rjd90 = 05001 99655 10375 41496 91408 10020 40108 51000 70202 80000 22232 00/// 2//// 314// 4//// 5//// 6//// 05017 = + rmjz k"	CW	(WP3)
4580.5	5-11-2012	0010	M32a	Mon	Russian Navy "rjd99 de rbhv 182 19 5 0400 182 = for rjh74 rjd90 = 05001 99650 10382 41/98 81608 ...05016 = + rbhv k"	CW	(WP3)
4580.5	5-11-2012	0340	M32a	Mon	Russian Navy "rjd99 de rbc89 572 19 5 0955 572 = for rjd90 rjh74 = 05061 99662 10365 41/96 92307 10040 40000 52020 70200 89/// 22232 00030 20202 323// 40302 88000 05016 = + rbc89 k"	CW	(WP3)
4580.5	5-11-2012	0600	M32a	Mon	Russian Navy "rjd99 de rbc89 192 3 5 0956 192 = for rjd99 = 02552 05001 = + rbc98 k"	CW	(WP3)
4580.5	5-11-2012	0620	M32a	Mon	Russian Navy "rjd99 de rmb81 n.j. - agn later then 533 18 5 1000 533 = for rjh74 rjd90 = 05061 99662 10357 41298 82797 10020 40030 53020 70202 22272 00010 30102 327// 88000 80000 05015 = + rmb81 k"	CW	(WP3)
4590	2-11-2012	1214	M89	Fri	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	(JPL)
4590	2-11-2012	1557	M89	Fri	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
4590	2-11-2012	1826	M89	Fri	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
4590	4-11-2012	1216	M89	Sun	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	(JPL)
4590	4-11-2012	1414	M89	Sun	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	(JPL)
4590	4-11-2012	1943	M89	Sun	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	(JPL)
4590	5-11-2012	1252	M89	Mon	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
4590	5-11-2012	1428	M89	Mon	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
4590	5-11-2012	1740	M89	Mon	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
4590	5-11-2012	1929	M89	Mon	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	(JPL)
4590	5-11-2012	2328	M89	Mon	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	(JPL)
4590	6-11-2012	1130	M89	Tue	In chat û Hand sent û Horrible CW (see N&O 182)	CW	(JPL)

frequency	date	UTC	enigma	day	remarks	mode	contributor
4590	7-11-2012	1843	M89	Wed	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
4590	8-11-2012	2218	M89	Thu	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
4590	10-11-2012	1155	M89	Sat	Freq normally used by GNXG. Msgs NTN3 DT.. U75A .665 ..NA U575 4U7T .. (Cont'd) AR K K	CW	(JPL)
4590	10-11-2012	1258	M89	Sat	Freq normally used by GNXG. Msgs VVV HY4G DE L... K R R R	CW	(JPL)
4590	11-11-2012	1110	M89	Sun	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	(JPL)
4590	11-11-2012	1527	M89	Sun	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	(JPL)
4590	11-11-2012	2152	M89	Sun	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
4590	14-11-2012	1048	M89	Wed	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
4590	18-11-2012	1931	M89	Sun	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
4590	25-11-2012	1811	M89	Sun	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	(JPL)
4590	25-11-2012	2214	M89	Sun	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
4590	26-11-2012	1338	M89	Mon	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
4590	26-11-2012	2018	M89	Mon	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
4595	31-10-2012	2111	M22		4XZ: Navy Haifa 5L msg or VVV DE 4XZ	CW	(PPA)
4595	1-11-2012	1827	M22	Thu	4ZX Haifa ip	CW	(Q-HOL)
4595	6-11-2012	1824	M22	Tue	4XZ Haifa "...= = vvv de 4xz 4xz = =..."	CW	(Q-HOL)
4595	8-11-2012	2334	4XZ		VVV DE 4XZ 4XZ = =	CW	(FYM)
4595	9-11-2012	2136	M22	Fri	4XZ HAIFA ip, "...= = vvv de 4xz 4xz = =..."	CW	(Q-HOL)
4595	10-11-2012	2149	M22	Sat	4XZ: Haifa VVV DE 4XZ 4XZ = DE 4XZ 4XZ = =	CW	(WP3)
4595	28-11-2012	2141	M22	Wed	4XZ Haifa, ISR ip, "...= = vvv de 4xz 4xz = =..."	CW	(Q-HOL)
4595	30-11-2012	2137	M22	Fri	4XZ Haifa ip	CW	(Q-HOL)
4605	8-11-2012	1848	UMv	Thu	Ukrainian Mil. (tentative) Shkoda-49 wkg Vishnya-46	USB	(SSH)
4617	5-11-2012	0530	M12	Mon	638 000	CW	(FN)
4617	19-11-2012	0530	M12	Mon	638 000	CW	(FN/HFD)
4617	26-11-2012	0530	M12	Mon	638 000	CW	(FN)
4625	5-11-2012	1356	S28	Mon	MDZhB 46 912 LAREN 26 91 91 38	AM	(FYM)
4625	6-11-2012	0550	S28	Tue	Buzzer on 4525 and 4625 kHz	USB	(RS.ru)
4625	6-11-2012	0715	S28	Tue	Buzzer on 4525 and 4625 kHz	USB	(Avare)
4625	7-11-2012	2235	S28	Wed	The Buzzer	USB	(ATC)
4625	11-11-2012	1329	S28	Sun	MDZhB 82 812 BARVENA 74 92 76 94	USB	(Avare)
4625	12-11-2012	0356	S28	Mon	MDZhB 92 410 KORPORATSIYA 29 04 38 18	USB	(ScSw)
4625	12-11-2012	0938	S28	Mon	MDZhB 50 969 KARBITKA 37 99 98 12	USB	(AB-EST/FYM)
4625	12-11-2012	0939	S28	Mon	MDZhB 33 123 KARBATOKS 50 49 53 83	USB	(AB-EST/FYM)
4625	13-11-2012	2347	S28	Tue	Buzzer	LSB	(Daunt)
4625	17-11-2012	0700	S28	Sat	MDZhB 03801 PARASTIKh 0711 64 84	USB	(UFD)
4625	18-11-2012	1335	S28	Sun	MDZhB 21 522 ShERSTEED 09 31 33 70 KERNER 32 90 84 77	USB	(Avare)
4625	18-11-2012	1342	S28	Sun	MDZhB 89 984 BARANETc 04 52 16 01 PARAL'DEGA 93 20 77 17	USB	(Avare)
4625	18-11-2012	2112	S28	Sun	Buzzer	AM	(Daunt)
4625	23-11-2012	1830	S28	Fri	Buzzer	USB	(VK4TAW-HOL)
4625	27-11-2012	1802	S28	Tue	MDZhB MDZhB 95 651 KIRACIP 40 13 17 23	USB	(FYM)
4625	27-11-2012	1805	S28	Tue	MDZhB MDZhB 05 249 CIPEHH?Y 76 50 28 87	USB	(FYM)
4625	28-11-2012	1436	S28	Wed	MDZhB MDZhB 42 767 VIRALA 76 04 02 13	USB	(FYM)
4625	28-11-2012	1438	S28	Wed	MDZhB MDZhB 33 995 LIPUNETS 29 77 82 68	USB	(FYM)
4629	7-11-2012	2220	M12	Wed	460 000	CW	(FN/HFD)
4629	14-11-2012	2220	M12	Wed	460 460 460 000	CW	(Q-HOL)
4629	21-11-2012	2220	M12	Wed	460 1 565 69 95599 msg 000 000	CW	(FN/Q-HOL)
4629	28-11-2012	2220	M12	Wed	460 460 460 000	CW	(FN/Q-HOL)
4636	13-11-2012	1820	M14	Tue	186 636 15 = (M14 and M45 use the same hardware?)	CW	(FYM/HFD)
4680	6-11-2012	0448	S28	Tue	Buzzer on an unusual freq.	USB	(AnRus)
4760	2-11-2012	2038	RMv	Fri	Russian Mil. Test count 123456789 ends with 123456	USB	(LG2)
4760	2-11-2012	2130	E06	Fri	472 274 15 64738 ... 53511 274 00000	USB	(Spec/HFD)
4760	16-11-2012	2130	E06	Fri	472 274 15 64738 ... 53511 274 00000	USB	(Spec)
4761	14-11-2012	1934	M14	Wed	Got the end of the transmission. Carrier stayed up. At 1934Z heard in phone: "1,2,3,4,5" in English	CW	(FYM)

frequency	date	UTC	enigma	day	remarks	mode	contributor
4792	9-11-2012	1930	G06	Fri	436 703 15 34719 37163 14597 14872 48204 37137 05739 32245 12345 38173 37498 37590 15824 52876 09823 703 15 00000	AM	(Avare/HFD)
4792	23-11-2012	1831	G06	Fri	YL, GG, test "1 2 3 7 5 9 7 8"	USB	(Q-HOL)
4792	23-11-2012	1929	G06	Fri	ip, YL, GG	USB	(Q-HOL)
4818	14-11-2012	2223	M32	Wed	Russian Mil. 92-group 5FG message ending 72278 24500 81733 64770 15092 K.	CW	(MPJ)
4828	6-11-2012	1115	M03	Tue	272/00	CW	(FYM)
4828	11-11-2012	1320	M03	Sun	437/00	CW	(HFD)
4828	14-11-2012	1115	M03	Wed	650/00	CW	(MPJ/FYM)
4828	22-11-2012	1320	M03	Thu	437/00 = = 000. At 1316 UTC "VVV VVV"	CW	(AB)
4836	1-11-2012	2030	E06	Thu	321 134 15 63846 ... 10911 134 15 00000	USB	(Spec/HFD)
4836	15-11-2012	2030	E06	Thu	OM, EE 321 (R) 134 134 15 15 663846 263951 06728...	AM	(Q-HOL)
4860	1-11-2012	1320	M89	Thu	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL)
4860	1-11-2012	1620	M89	Thu	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL)
4860	1-11-2012	2019	M89	Thu	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL)
4860	1-11-2012	2320	M89	Thu	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL)
4860	2-11-2012	1220	M89	Fri	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL)
4860	2-11-2012	1620	M89	Fri	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL)
4860	2-11-2012	1820	M89	Fri	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL)
4860	3-11-2012	1919	M89	Sat	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL)
4860	3-11-2012	2019	M89	Sat	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL)
4860	3-11-2012	2120	M89	Sat	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL)
4860	4-11-2012	1220	M89	Sun	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL)
4860	4-11-2012	1420	M89	Sun	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL)
4860	5-11-2012	1320	M89	Mon	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL)
4860	5-11-2012	1420	M89	Mon	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL)
4860	5-11-2012	1919	M89	Mon	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL)
4860	5-11-2012	2320	M89	Mon	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL)
4860	6-11-2012	1120	M89	Tue	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL)
4860	6-11-2012	1320	M89	Tue	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL)
4860	7-11-2012	1920	M89	Wed	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL)
4860	12-11-2012	1320	M89	Mon	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL)
4860	14-11-2012	1620	M89	Wed	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL)
4860	14-11-2012	1820	M89	Wed	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL)
4860	15-11-2012	1119	M89	Thu	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL)
4860	15-11-2012	1220	M89	Thu	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL)
4860	16-11-2012	1220	M89	Fri	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL)
4860	18-11-2012	1320	M89	Sun	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL)
4860	19-11-2012	1520	M89	Mon	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL)
4860	19-11-2012	1919	M89	Mon	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL)
4860	20-11-2012	1520	M89	Tue	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL)
4860	23-11-2012	1520	M89	Fri	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL)
4860	23-11-2012	1720	M89	Fri	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL)
4860	25-11-2012	1820	M89	Sun	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL)
4860	26-11-2012	2019	M89	Mon	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL)
4860	26-11-2012	2019	M89	Mon	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL)
4860	27-11-2012	1519	M89	Tue	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL)
4900	30-11-2012	1530	V24	Fri	Weak, bad audio and low mod depth. Sending 5 character groups.	AM	(FYM)
4909	13-11-2012	2000	E11c	Tue	757/0100/00 out	USB	(MPJ/AB/Q)
4909	20-11-2012	2000	E11c	Tue	757/0010/00	USB	(HFD/Q-HOL)
4909	27-11-2012	2000	E11c	Tue	757/2200/00	USB	(Q-HOL)
4917	21-11-2012	1717	M32	Wed	Russian Mil. "BK RPT AA 2K KSIF 7T81 1621 21T4 728 788 = PPPPP VDWEY GRJAA FGALR TSERP WFRUW"	CW	(BCI)
4945.5	8-11-2012	1928	M21	Thu	Russian Air Defence =992328??0?????	CW	(MPJ)
4947	16-11-2012	0459	M32	Fri	Russian mil. "SXHK DE PKWS QTC QSV SXHK 783 33 16 CW 0840 783" into 5L message	CW	(PPA)

frequency	date	UTC	enigma	day	remarks	mode	contributor
4951.5	2-11-2012	1951	M21	Fri	Russian Air Defence =992351??0????? //4951.5	CW	(MPJ)
4951.5	8-11-2012	2320	M21	Thu	PVO = 99T324??T?????	CW	(FYM)
4951.5	10-11-2012	2143	M21	Sat	Russian Air Defense =990144??0?????	CW	(WP3)
4951.5	21-11-2012	2101	M21	Wed	=990111??0?????	CW	(JPL-RUS)
4959	8-11-2012	0829	M21	Thu	PVO plots 9910656303428 9909657606328 etc	CW	(WP3)
4964	15-11-2012	1630	M51	Thu	F9TM: Réseau National Français "CQ de F9TM Réseau National Français à 19:30 loc qrg libre appréciée ... Bsr et 73 à tous", followed by request in English for a clear frequency and gives a list of French amateur callsigns	CW	(MPJ)
4970	16-11-2012	0453	M42	Fri	RFT6: Russian Gov. Area of Voronezh	RUS-ARQ 100/500	(PPA)
4979	7-11-2012	2108	M32	Wed	Russian Mil. RAL2 clg RGH2,RMW2 and RHQ2 for radio check	CW	(PPA)
4979	7-11-2012	2109	M32	Wed	Russian Mil. RGH2 answers call from RAL2	CW	(PPA)
4979	7-11-2012	2109	M32	Wed	Russian Mil. RMW2 answers call from RAL2	CW	(PPA)
5072	19-11-2012	0614	M32	Mon	Russian Mil. TMSI wkg MNNV	CW	(BCI)
5082	1-11-2012	1730	E11	Thu	416/00	USB	(HFD)
5082	5-11-2012	0450	E11a	Mon	410/35=79606	USB	(HFD)
5082	8-11-2012	1730	E11a	Thu	410/35 Attention 79606 ... 31778 Out	USB	(Spec)
5082	15-11-2012	1730	E11	Thu	416/00	USB	(Spec/MPJ)
5082	22-11-2012	1730	E11	Thu	416/00	USB	(MPJ)
5082	26-11-2012	0450	E11	Mon	416/00	USB	(HS2)
5118	3-11-2012	2030	S06	Sat	314 0	AM	(HFD)
5118	17-11-2012	2030	S06	Sat	314 314 314 00000	AM	(Q-HOL/HFD)
5146	15-11-2012	0530	E07a	Thu	188 1 33633 101 53 51966 ... 96870 000 000	USB	(Spec)
5146	22-11-2012	0530	E07a	Thu	188 0	USB	(HFD)
5153.7	8-11-2012	1958	MX	Thu	Beacon "D" Odessa/Sevastopol	CW	(MPJ)
5153.7	29-11-2012	1636	MX	Thu	Beacon "D" Sevastopol	CW	(SW2)
5153.8	29-11-2012	1636	MX	Thu	Beacon "P" Kaliningrad	CW	(SW2)
5158	20-11-2012	2210	M42	Tue	Russian Intel. 11? messages in blocks of 4.	FSK 200/1000	(MPJ)
5158	22-11-2012	2010	M42	Thu	Russian Intel. Sequences 00000+++++++162)5761	RTTY 186/500	(MPJ)
5164	7-11-2012	2120	E07a	Wed	815 815 815 000	USB	(HFD/Q-HOL)
5164	14-11-2012	2120	E07a	Wed	815 1 33633 101 53 51966 ... 96870 000 000	USB	(Spec/Q-HOL)
5164	21-11-2012	2120	E07a	Wed	815 000	USB	(FYM)
5164	28-11-2012	2120	E07a	Wed	815 815 815 000	USB	(MPJ)
5185	16-11-2012	0446	M42	Fri	RBW: Russian Gov. Area of Penza	RUS-ARQ 100/500	(PPA)
5207	6-11-2012	2025	---	Tue	Unid pip + data burst	CW/data	(AB)
5224	1-11-2012	2011	M32a	Thu	Russian Navy "RH70 DE RCV QYT4 QCM K"	CW	(LG2)
5224	2-11-2012	2036	M32a	Fri	Russian Navy "RH70 DE RCVK" kept sending FH70 then correcting to RH70	CW	(LG2)
5224	17-11-2012	1909	M32a	Sat	Russian Navy "RFH70 DE RCV QSA?"	CW	(PPA)
5230	1-11-2012	1932	M89	Thu	...DKG6 DKG6 DKG6 DE 3A7D 3A7D V (R)...	CW	(Q-HOL)
5230	1-11-2012	2016	M89	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
5230	5-11-2012	1933	M89	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
5230	6-11-2012	1917	M89	Tue	V DKG6 DKG6 DKG6 DE 3A7D 3A7D	CW	(PPA)
5230	7-11-2012	1905	M89	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
5230	7-11-2012	1929	M89	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
5230	12-11-2012	2132	M89	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
5230	14-11-2012	0117	M89	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
5230	14-11-2012	1607	M89	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
5230	15-11-2012	1719	M89	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
5230	15-11-2012	2124	M89	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
5230	16-11-2012	1721	M89	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
5230	16-11-2012	1907	M89	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
5230	18-11-2012	1326	M89	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
5230	18-11-2012	1854	M89	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)



frequency	date	UTC	enigma	day	remarks	mode	contributor
5230	18-11-2012	1937	M89	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
5230	19-11-2012	2148	M89	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
5230	21-11-2012	2046	M89	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
5230	21-11-2012	2314	M89	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
5230	23-11-2012	1401	M89	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
5230	23-11-2012	1433	M89	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
5230	23-11-2012	1718	M89	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
5230	23-11-2012	1942	M89	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
5230	25-11-2012	2301	M89	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
5250	13-11-2012	0700	S06s	Tue	374-290/5=11171	USB	(HFD)
5278	5-11-2012	0918	M89	Mon	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
5278	5-11-2012	1007	M89	Mon	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
5278	5-11-2012	1258	M89	Mon	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
5278	5-11-2012	2320	M89	Mon	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
5278	6-11-2012	1151	M89	Tue	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
5278	14-11-2012	1055	M89	Wed	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
5278	16-11-2012	0901	M89	Fri	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
5278	20-11-2012	1147	M89	Tue	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
5278	21-11-2012	2332	M89	Wed	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
5278	22-11-2012	0957	M89	Thu	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
5278	22-11-2012	2349	M89	Thu	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
5278	28-11-2012	2352	M89	Wed	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
5286	23-11-2012	0703	M32	Fri	Russian Mil (tentative) "DE ATZ2" (see N&O 182)	CW	(TR2)
5317	5-11-2012	0550	M12	Mon	638 000	CW	(FN)
5317	19-11-2012	0550	M12	Mon	638 000	CW	(FN/HFD)
5317	26-11-2012	0550	M12	Mon	638 000	CW	(FN)
5320	1-11-2012	1800	M01	Thu	197	CW	(HFD)
5320	6-11-2012	1801	M01	Tue	197 (R) msg = = 7557 757 3t 3t ttt	CW	(Q-HOL)
5320	13-11-2012	1802	M01	Tue	929 (R) 197 (R) 929 30 30 = = 91714 46661 ... 71119 86607 414 44 5 4 86607 45414 ... 83931 65904 = = = 929 929 30 30 0 0 0	CW	(MPJ)
5320	27-11-2012	1800	M01	Tue	197 406 30 55391 94149 ... 18745 27715 = = 406 30 0 0 0.	CW	(MPJ)
5320	29-11-2012	1800	M01	Thu	197 999 30 // 26489 19946 ... 98177 38884 // 999 30 0 0 0.	CW	(MPJ)
5325	16-11-2012	0451	M42	Fri	RND79: Russian Gov. Moscow link with RFT6 and RBW	RUS-ARQ 100/500	(PPA)
5358	17-11-2012	1535	M03	Sat	798/00	CW	(HFD/MPJ)
5358	24-11-2012	1535	M03	Sat	790/31(R) == msg [5FSG pairs] = = rpt msg [5f] t t t	CW	(Q-HOL)
5360	1-11-2012	1633	S28	Thu	Buzzer on an unusual freq.	USB	(AnRus)
5372	18-11-2012	1803	M32a	Sun	Russian Navy "rcv de rir98 672 18 18 2200 672 = sml for rje73 rjh45 = 18181 99349 10358 ... 22200 ... 18014 = + rir98 k"	CW	(WP3)
5376	2-11-2012	2107	M32	Fri	6S2S: Russian Military NCS ip ... 673 = ZYY 693 = PPPPP WBWRJ PZHACH ... PZHACH PEPÃO K. Then calls E74W & ZWVH	CW	(MPJ)
5376	3-11-2012	2023	M32	Sat	6S2S: Russian military E74W DE 6S2S QBE QYT9	CW	(PPA)
5389	3-11-2012	2009	M32a	Sat	RGT77: Navy HQ Moscow RGT 77 =020= followed by 5L message	CW	(PPA)
5394	3-11-2012	2008	M32	Sat	JYKE: CIS military JYKE ZDX ZTH ZTE ZDB QSW3	CW	(PPA)
5429	7-11-2012	2200	M12	Wed	460 000	CW	(FN/HFD)
5429	21-11-2012	2200	M12	Wed	460 1 565 69 95599	CW	(FN)
5429	21-11-2012	2200	M12	Wed	460 460 460 1 (R) 565 69 565 69 msg 000 000	CW	(Q-HOL)
5429	28-11-2012	2200	M12	Wed	460 460 460 000	CW	(FN/Q-HOL)
5444	15-11-2012	0620	M32	Thu	Russian Mil. DNAI wkg HQIJ	CW	(BCI)
5447	1-11-2012	2130	E07	Thu	744 0	AM	(HFD)
5449	8-11-2012	2131	E07	Thu	744 744 744 000	AM	(Q-HOL)
5449	15-11-2012	2130	E07	Thu	744 744 744 000	AM	(Q-HOL)



frequency	date	UTC	enigma	day	remarks	mode	contributor
5449	22-11-2012	2130	E07	Thu	644 644 444 000	AM	(Q-HOL)
5449	29-11-2012	2130	E07	Thu	744 744 744 000	AM	(MG/Q-HOL)
5452	6-11-2012	1947	M51	Tue	ip	CW	(FMB)
5453	12-11-2012	0805	M51	Mon	FAV22	CW	(FYM)
5463	12-11-2012	0800	G06	Mon	215 215 215 00000	USB	(FYM/Avare/HFD)
5465	25-11-2012	0700	M01	Sun	197-727/30=33868	CW	(HFD)
5475	30-10-2012	1800	M01		463 463 463 -> 128 128 30 30 == repeated 5F msg	CW	(PPA)
5500	1-11-2012	1326	M89	Thu	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL)
5500	1-11-2012	1610	M89	Thu	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL)
5500	1-11-2012	2316	M89	Thu	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL)
5500	2-11-2012	1212	M89	Fri	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
5500	2-11-2012	1555	M89	Fri	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
5500	5-11-2012	1005	M89	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL)
5500	5-11-2012	1250	M89	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL)
5500	5-11-2012	1426	M89	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
5500	5-11-2012	2017	M89	Mon	V 7NPE 7NPE 7NPE DE QV5B QV5B	CW	(PPA)
5500	5-11-2012	2326	M89	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL)
5500	6-11-2012	1126	M89	Tue	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL)
5500	6-11-2012	1326	M89	Tue	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL)
5500	7-11-2012	1941	M89	Wed	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL)
5500	9-11-2012	1332	M89	Fri	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL)
5500	11-11-2012	1112	M89	Sun	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
5500	11-11-2012	1525	M89	Sun	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
5500	12-11-2012	1325	M89	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL)
5500	14-11-2012	1058	M89	Wed	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL)
5500	14-11-2012	1603	M89	Wed	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL)
5500	14-11-2012	1803	M89	Wed	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL)
5500	15-11-2012	1128	M89	Thu	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL)
5500	15-11-2012	1733	M89	Thu	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
5500	18-11-2012	1918	M89	Sun	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL)
5500	19-11-2012	1511	M89	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL)
5500	19-11-2012	1847	M89	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL)
5500	20-11-2012	1226	M89	Tue	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
5500	20-11-2012	1443	M89	Tue	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL)
5500	21-11-2012	0310	M89	Wed	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL)
5500	21-11-2012	2328	M89	Wed	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL)
5500	23-11-2012	1349	M89	Fri	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL)
5500	23-11-2012	1456	M89	Fri	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL)
5500	23-11-2012	1715	M89	Fri	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL)
5500	25-11-2012	1809	M89	Sun	In tfc .. 024/Z61/5475 AR	CW	(JPL)
5500	26-11-2012	1336	M89	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
5500	27-11-2012	1501	M89	Tue	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
5654	15-11-2012	1735	M89	Thu	In 4 fig cut cipher	CW	(JPL)
5656	20-11-2012	1453	M89	Tue	VV .3D4 .. BZ EE AU34 567D T X X BT BT BT	CW	(JPL)
5656	21-11-2012	1148	M89	Wed	7435 ND6T A5A3 74.T .6N7 (see N&O 182)	CW	(JPL)
5656	22-11-2012	1348	M89	Thu	In tfc AU7N AT5D 36U4 D54A 6N.. (see N&O 182)	CW	(JPL)
5656	22-11-2012	1439	M89	Thu	In tfc D3DA T4D5 6735 635U NA6D 6TA6 5D73 UU3T	CW	(JPL)
5660	6-11-2012	1010	S06s	Tue	893 264 5 79559 38830 42386 76730 85176 264 5 00000	USB	(Spec/FYM)
5660	13-11-2012	1010	S06s	Tue	893 264 5 79559 38830 42386 76730 85176 264 5 00000	USB	(Spec)
5660	20-11-2012	1010	S06s	Tue	893 201 5	USB	(FYM)
5737	23-11-2012	0900	S--	Fri	"138" in Russian	USB	(BCI)
5752	12-11-2012	1403	M21	Mon	PVO =991803??8?????	CW	(FYM)
5775	31-10-2012	1815	X06		Mazielka. Sequence 521634	USB	(PPA)
5785	13-11-2012	0700	M14	Tue	178 0	CW	(HFD)
5788	31-10-2012	1740	M12		463 1 6131 73 26028 17040 ... 90958 53651 000 000	CW	(MPJ)

frequency	date	UTC	enigma	day	remarks	mode	contributor
5788	7-11-2012	1740	M12	Wed	463 1 2773 91 07558	CW	(FN/HFD)
5788	14-11-2012	1740	M12	Wed	463 1 6115 79 58702 71726 ... 95246 73402 00000	CW	(MPJ/FN)
5788	21-11-2012	1740	M12	Wed	463 1 4165 74 84024	CW	(FN)
5788	28-11-2012	1740	M12	Wed	463 1 4583 61 27906	CW	(FN)
5800	27-9-2012	0630	M08a		IP	CW	(KC2TTK)
5800	27-9-2012	0633	SK01		Tx once	RDFT	(KC2TTK)
5800	21-10-2012	0614	M08a		IP	CW	(KC2TTK)
5800	1-11-2012	0600	M08a	Thu	start txm	CW	(KC2TTK)
5800	2-11-2012	0603	M08a	Fri	Tx stopped abruptly; dead air. 0608z Tx resumes (with higher-pitched CW??)	CW	(KC2TTK)
5800	10-11-2012	0600	M08a	Sat	Tx begins	CW	(KC2TTK)
5800	21-11-2012	0600	M08a	Wed	DGI End Tx (no "SK")	CW	(KC2TTK)
5800	24-11-2012	0559	V02a	Sat	Atención once, followed by "86484 46604 36161 10494 51904 68184	AM	(KC2TTK)
5800	24-11-2012	0604	HM01	Sat	Begin Tx starting with "86484"	AM/RDFT	(KC2TTK)
5800	28-11-2012	0659	HM01	Wed	Begin Tx. At 0759 UTC lone "Ocho"s followed by callups followed by more snafus	AM/RDFT	(KC2TTK)
5801	4-11-2012	1213	M89	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
5801	23-11-2012	1350	M89	Fri	In chat ... DE AAL5 AS (1352z) (Handsent, poor CW, unsure of callsign)	CW	(JPL)
5810	3-11-2012	1500	M01	Sat	197 fastly handgiven	CW	(HFD)
5810	16-11-2012	1615	M01b	Fri	158	CW	(HFD)
5810	24-11-2012	1502	M01	Sat	ip, 5FSG, "197(R) = = 149 149 3t 3t msg = = 149 149 3t 3t t t t"	CW	(Q-HOL)
5811	24-11-201	1500	M01		197 149 30 = = 96587 50964 ... 60288 94523 = = 149 30 0 0 0	CW	(MPJ)
5812.2	2-11-2012	1621	M01b	Fri	ip	CW	(Q-HOL)
5824	26-11-2012	2040	E07	Mon	OM, EE, 798 798 798 1 124 49 62867 23327 20454 ... 16643 79052 000 000	AM	(Q-HOL)
5846	15-11-2012	0550	E07a	Thu	188 1 33633 101 53 51966 ... 96870 000 000	USB	(Spec)
5846	22-11-2012	0550	E07a	Thu	188 0	USB	(HFD)
5864	7-11-2012	2100	E07a	Wed	815 815 815 000	USB	(Q-HOL/HFD)
5864	14-11-2012	2100	E07a	Wed	815 1 33633 101 53 51966 ... 96870 000 000	USB	(Spec/MPJ/Q)
5864	21-11-2012	2100	E07a	Wed	815 815 815 000	AM	(CS/Q/FYM/Daunt)
5864	28-11-2012	2100	E07a	Wed	815 815 815 000	USB	(MPJ/FYM)
5873	7-11-2012	1800	M23	Wed	246	CW	(FMB)
5873	7-11-2012	1858	M23	Wed	246	CW	(FMB)
5880	11-11-2012	0554	M08a	Sun	Tx begins, signal faded very quickly	CW	(KC2TTK)
5881	17-11-2012	0702	M32	Sat	XXX XXX REO REO 67539 KDOJKMJ 9874 6829 K	CW	(TR2)
5882	2-11-2012	0700	V02a	Fri	Comes from 5883 kHz. Stopped "dos"ing. "Atención 40221 58552 66871", headers "28008 81202", "44851 52420", "27148 **274"	AM	(KC2TTK)
5883	27-9-2012	0707	V02a		in progress	AM	(KC2TTK)
5883	27-9-2012	0741	V02a		in progress "Final Final Final", off air shortly thereafter	AM	(KC2TTK)
5883	21-10-2012	0659	V02a		"Atención 04222 17641 21071", first header "53612 01*42"	AM	(KC2TTK)
5883	27-10-2012	0706	V02a		ip	AM	(KC2TTK)
5883	1-11-2012	0700	V02a	Thu	Very low modulation, unintelligible	AM	(KC2TTK)
5883	2-11-2012	0658	V02a	Fri	"Cero dos dos dos dos dos..." 0658z Shifted to 5882 KHz USB in order to avoid WWCR's QRM	AM	(KC2TTK)
5883	11-11-2012	0655	V02a	Sun	"Cero uno uno uno uno uno..." 0659z "Atención 47881 51221 64642", headers "***537 ***45", "*****", "23220 20382"	USB	(KC2TTK)
5883	12-11-2012	0659	V02a	Mon	A52262 65602 88021	AM	(Spec)
5883	13-11-2012	0700	V02a	Tue	A71751 83172 06511 LG 73523	AM	(Spec)
5883	15-11-2012	0700	V02a	Thu	A51821 64252 76571 LG 48073	AM	(Spec)
5883	16-11-2012	0700	V02a	Fri	A70852 83281 06612 LG *4805	AM	(Spec)
5883	21-11-2012	0700	V02a	Wed	DGI "Atención **8008 *00** 03662"	AM	(KC2TTK)

frequency	date	UTC	enigma	day	remarks	mode	contributor
5883	22-11-2012	0700	V02a	Thu	Atencion 14782 26111 30541	AM	(MG)
5883	24-11-2012	0659	V02a	Sat	looping, little-to-no pause between repetitions	AM	(KC2TTK)
5883	24-11-2012	0703	HM01	Sat	Begin Tx starting with "86484"	AM/RDFT	(KC2TTK)
5883	24-11-2012	0725	V02a	Sat	"86484 46604 36161 10494 51904 68184" (looping, little-to-no pause between repetitions)	AM	(KC2TTK)
5883	24-11-2012	0729	HM01	Sat	Begin Tx starting with "86484" ends at 0744 with "68184"; dead air (no "Final").	AM/RDFT	(KC2TTK)
5883	24-11-2012	0759	V02a	Sat	"Atención 56842 7027[15] 836[05]1"	AM	(KC2TTK)
5884	8-11-2012	0730	M12	Thu	888 000	CW	(FN)
5884	15-11-2012	0730	M12	Thu	888 000	CW	(FN)
5884	22-11-2012	0730	M12	Thu	888 000	CW	(FN/HFD)
5884	29-11-2012	0730	M12	Thu	888 000	CW	(FN)
5895	13-11-2012	0800	M14	Tue	178 0	CW	(HFD)
5898	27-9-2012	0800	V02a		"Atención 61832 74261 87582", headers "81478 5*20*", "***** *****", "0*22* *****" 0843z "Final final final"	AM	(KC2TTK)
5898	18-10-2012	0459	M08a		Tx begins	CW	(KC2TTK)
5898	21-10-2012	0800	V02a		"Atención 04222 17641 21071", Started on 5883 KHz	AM	(KC2TTK)
5898	27-10-2012	0533	M08a		ip	CW	(KC2TTK)
5898	27-10-2012	0800	V02a		"Atención 37421 41742 54171"	AM	(KC2TTK)
5898	1-11-2012	0510	M08a	Thu	ip	CW	(KC2TTK)
5898	2-11-2012	0558	M08a	Fri	Went off-air (to 5800 KHz) while still Txing	CW	(KC2TTK)
5898	2-11-2012	0759	V02a	Fri	"Atención 40221 58552 66871"; weak modulation	AM	(KC2TTK)
5898	11-11-2012	0514	M08a	Sun	IP	CW	(KC2TTK)
5898	11-11-2012	0752	V02a	Sun	"Uno uno uno uno uno..." 0759z "Atención 47881 51221 64642"	USB	(KC2TTK)
5898	11-11-2012	0800	V02a	Sun	Atencion 47881 51221 64642 LG 38461	AM	(Dan)
5898	12-11-2012	0759	V02a	Mon	A52262 65602 88021 LG 83066	AM	(Spec)
5898	12-11-2012	0820	V02a	Mon	Attencion! Then message, ending with Finale!	AM	(FYM)
5898	13-11-2012	0800	V02a	Tue	A71751 83172 06511 LG 73523	AM	(Spec)
5898	14-11-2012	0603	SK01	Wed	11 transmissions 45" lenght each; seems to be same message	RDFT	(Dan)
5898	15-11-2012	0800	V02a	Thu	A51821 64252 76571 LG 55584	AM	(Spec)
5898	15-11-2012	0800	V02a	Thu	A70852 83281 06612 LG 36356	AM	(Spec)
5898	16-11-2012	0800	V02a	Fri	Atencion 70852 83281 06612 LG 36256	AM	(Dan)
5898	20-11-2012	0820	V02a	Tue	????? 35542 41561 LG 52572. Started late and sent between 73135 84834 56643 messages	AM	(Dan)
5898	21-11-2012	0512	M08a	Wed	DGI	CW	(KC2TTK)
5898	21-11-2012	0605	SK01	Wed	12 transmissions; seems to be same message	RDFT	(Dan)
5898	21-11-2012	0750	M08a	Wed	DGI	CW	(KC2TTK)
5898	21-11-2012	0800	V02a	Wed	DGI "Atención 78601 80331 03662", headers "23450 36055", "41708 26500", "71766 08383"	AM	(KC2TTK)
5898	22-11-2012	0506	M08a	Thu	DGI	CW	(KC2TTK)
5898	24-11-2012	0509	HM01	Sat	ip; V02a-like header announcement, SK01-like message transmissions	AM/RDFT	(KC2TTK)
5898	24-11-2012	0530	V02a	Sat	V02a numbers *with* "nueve"s, predominantly ending with "####4". SK01/RDFT payloads vary in duration (apparently longer when header contains a "9")	AM	(KC2TTK)
5898	24-11-2012	0533	HM01	Sat	SK01/RDFT payloads vary in duration (apparently longer when header contains a "9")	AM/RDFT	(KC2TTK)
5898	24-11-2012	0805	V02a	Sat	in progress	AM	(KC2TTK)
5898	28-11-2012	0559	SK01	Wed	Tx repeating every 5 minutes. At 0654 UTC last RDFT Tx	RDFT	(KC2TTK)
6000.5	14-11-2012	0845	M32	Wed	Russian Mil. (tentative) KG5P KG5P KG5P de SLPT SLPT SLPT QTC K	CW	(Dan)
6085	16-11-2012	0600	S06s	Fri	934-572/6=97644	USB	(HFD)
6140	14-11-2012	1046	E25	Wed	128 1069 2101 2150 2613 6514 0162 7951 4766 8296 2150	AM	(MG)
6140	18-11-2012	0946	E25	Sun	350 1099 1110 2190 3925 5024 1621 3308 0135 1110	AM	(MG)

frequency	date	UTC	enigma	day	remarks	mode	contributor
6140	19-11-2012	0830	E25	Mon	Tone 701 4311 1340 3101 7604 0514 3292 5825 8887 6896 1340, WinXP sounds	AM	(MG)
6140	19-11-2012	0948	E25a	Mon	Tone, music, YL repeating 355 12	AM	(Avare/MG)
6140	20-11-2012	0830	E25	Tue	Tone. 701	AM	(MG)
6140	21-11-2012	0845	E25	Wed	Tone. 169 6249 3180 1793 9271 7902 8775 8126	AM	(MG)
6140	21-11-2012	1028	E25a	Wed	Tone. 675 5 WinXP "dings"	AM	(MG)
6140	27-11-2012	0917	E25	Tue	950 1041 6211 1530 6029 4004 7584 5020 8624 1361 3713 9346 8457 9645 1530	AM	(MG)
6220	21-11-2012	1408	M32	Wed	CQ DE V6TT, later: V8K4 V8K4 DE V6TT V6TT K, RPT, V8K4 V8K4 DE V6TT V6TT K, etc etc	CW	(FYM)
6261	10-11-2012	1500	M01	Sat	197 (R) 111 111 3t 3t = = 88672 88672 12264 12264 39112 39112...35075 35075 38256 38256 17833 17833 = = 111 111 30 30 0 0 0	CW	(Q-HOL)
6320	13-11-2012	0715	S06s	Tue	374	USB	(HFD)
6378	2-11-2012	2057	M22	Fri	VVV DE 4XZ	CW	(LG2)
6379	6-11-2012	1530	M22	Tue	4XZ	CW	(FYM)
6379	10-11-2012	2117	M22	Sat	4XZ: Haifa EMSG YK*A UFKGZ YDZTI XJYTJ RLMXY RQXE EQKPH IRMYG IEZOX XAOYP == AA GR 04 == MWDKO PACKA ZLMST EABIE ENFXI INTQH	CW	(WP3)
6379	18-11-2012	1900	M22	Sun	VVV DE 4XZ 4XZ = =	CW	(TR2)
6379	28-11-2012	2145	M22	Wed	4XZ Haifa, ISR ip, "...= = vvv de 4xz 4xz = =..."	CW	(Q-HOL)
6433	3-11-2012	1020	S11a	Sat	221/00	USB	(HFD)
6433	3-11-2012	1021	S11a	Sat	331/00	USB	(Q-HOL)
6433	3-11-2012	1328	G11	Sat	ip, YL, GG, "...msg, ENDE"	USB	(Q-HOL)
6433	4-11-2012	1755	G11	Sun	270/00	USB	(HFD)
6433	7-11-2012	1020	S11a	Wed	224/38 27352 ... 37688	USB	(Spec/FYM)
6433	10-11-2012	1020	S11a	Sat	224/38 27352 ... 37688	USB	(Spec/Q/FYM)
6433	11-11-2012	1755	G11	Sun	273/38 Achtung 23618 ... 47481 Ende	USB	(Spec)
6433	14-11-2012	1020	S11a	Wed	221/00	USB	(FYM)
6433	16-11-2012	1325	G11	Fri	299/00	USB	(HFD/Spec/Q)
6433	17-11-2012	1020	S11a	Sat	221/00	USB	(FYM)
6433	17-11-2012	1325	G11	Sat	299/00	USB	(HFD)
6433	24-11-2012	1317	S11a	Sat	in progress	USB	(Q-HOL)
6433	24-11-2012	1325	G11	Sat	599/00	USB	(Q-HOL)
6434	30-11-2012	1325	G11	Fri	299/00	USB	(FYM)
6440	6-11-2012	1000	S06s	Tue	893 264 5 79559 38830 42386 76730 85176 264 5 00000	USB	(Spec)
6440	13-11-2012	1000	S06s	Tue	893 264 5 79559 38830 42386 76730 85176 264 5 00000	USB	(Spec)
6465	7-11-2012	0804	S06	Wed	YL/RR, 124 ...	AM	(ML4)
6607	5-11-2012	1520	M22	Mon	4XZ msg: GW0G QSL RR 553 AR	CW	(FYM)
6607	10-11-2012	2039	M22	Sat	4XZ: Haifa VVV DE 4XZ 4XZ = DE 4XZ 4XZ = = EFCCF == AA GR 04 == IDKHR GKCQZ TSDAL ICLFB JTZQT	CW	(WP3)
6607	18-11-2012	2159	M22	Sun	4XZ Haifa "...gr 73 == ar ar vvv de 4xz 4xz = = vvv de 4xz 4xz = = tr ar nw qtc 1 nr 192 = =..."	CW	(Q-HOL)
6722	30-10-2012	1902	M32		LNMP: Russian military net control station radiocheck with a.o. JXYE and OTOR	CW	(PPA)
6771	4-11-2012	1145	VC01	Sun	Chinese Robot	LSB	(NC)
6771	4-11-2012	1321	VC01	Sun	Chinese Robot	LSB	(AB/Q-HK)
6771	22-11-2012	1326	VC01	Thu	Chinese Robot in progress	LSB	(AB-HK)
6771	23-11-2012	1154	VC01	Fri	Chinese Robot in progress	LSB	(AB-HK)
6771	23-11-2012	1552	VC01	Fri	Chinese Robot in progress	LSB	(AB-HK)
6773	5-11-2012	0916	M89	Mon	V H2FL (x3) DE DRV8 (x2) (Cont'd) //8040	CW	(JPL)
6773	22-11-2012	2351	M89	Thu	V H2FL (x3) DE DRV8 (x2) (Cont'd) //8040	CW	(JPL)
6773	23-11-2012	0742	M89	Fri	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
6777	1-11-2012	2110	E07	Thu	744 0	AM	(HFD)
6777	8-11-2012	2110	E07	Thu	744 744 744 000	AM	(Q-HOL)
6777	22-11-2012	2110	E07	Thu	644 644 444 000	AM	(Q-HOL/FYM)
6777	29-11-2012	2110	E07	Thu	744 744 744 000	AM	(MG/Q-HOL)

frequency	date	UTC	enigma	day	remarks	mode	contributor
6789	13-11-2012	2200	M42	Tue	Russian Intel. 9 messages of 4 blocks each.	FSK 200/1000	(MPJ)
6789	20-11-2012	2200	M42	Tue	Russian Intel. 11? messages in blocks of 4.	FSK 200/1000	(MPJ)
6792	7-11-2012	1540	M12	Wed	106 1 269 53 96137	CW	(FN/HFD)
6792	14-11-2012	1540	M12	Wed	106 1 300 49 27648 84982 ... 54613 55825 00000	CW	(FN/MPJ)
6792	21-11-2012	1540	M12	Wed	106 1 470 35 26316	CW	(FN)
6792	28-11-2012	1540	M12	Wed	106 1 932 57 32559	CW	(FN)
6802	31-10-2012	1720	M12		463 1 6131 73 26028 17040 ... 90958 53651 000 000	CW	(MPJ)
6802	7-11-2012	1720	M12	Wed	463 1 2773 91 07558	CW	(FN//HFD)
6802	14-11-2012	1720	M12	Wed	463 1 6115 79 58702 71726 ... 95246 73402 00000	CW	(MPJ/FN)
6802	21-11-2012	1720	M12	Wed	463 1 4165 74 84024	CW	(FN)
6802	28-11-2012	1720	M12	Wed	463 1 4583 61 27906	CW	(FN)
6823	1-11-2012	1940	XPA	Thu	ip, "158 158 158 000 (R) 03198 00001 00000 10144	MFSK	(Q-HOL/HFD)
6823	6-11-2012	1940	XPA	Tue	158 158 158 1 (R) msg very long message	MFSK	(Q-HOL)
6823	8-11-2012	1940	XPA	Thu	158 158 158 1 (R) msg" long message	MFSK	(Q-HOL)
6823	13-11-2012	1940	XPA	Tue	158 158 158 1 (R) msg	MFSK	(Q-HOL)
6823	22-11-2012	1940	XPA	Thu	Polytones numbers station	MFSK	(Q-HOL)
6823.5	27-11-2012	1238	M21	Tue	PVO =99?1538?9???? 1538 = UTC + 4 hrs	CW	(FYM)
6824	2-11-2012	0851	M51	Fri	FAV22. 8éme Régiment de Transmission ip 5LGs very loud	CW	(LG2)
6825	1-11-2012	0956	M51	Thu	FAV22: 8° Régiment de Transmission, ip, 5fG and text, "...de fav22 va	CW	(Q-HOL)
6825	2-11-2012	1624	M51	Fri	FAV22: 8° Régiment de Transmission	CW	(Q-HOL)
6825	3-11-2012	1303	M51	Sat	FAV22: 8° Régiment de Transmission, ip	CW	(Q-HOL)
6825	4-11-2012	0805	M51	Sun	FAV22, morse code lesson. Many 'French' characters.	CW	(FYM)
6825	5-11-2012	1550	M51	Mon	5LGs, morse lesson?	CW	(FYM)
6825	5-11-2012	1744	M51	Mon	bt nr 01 n 05 18:48:54 1984 bt	CW	(Q-HOL)
6825	18-11-2012	0912	M51	Sun	FAV22: 8° Régiment de Transmission ip, 5fG and text	CW	(Q-HOL)
6826	8-11-2012	2000	M42	Thu	Russian Intel. Null message 00000+++++++162)5761	Baudot 1 stb/187,5/500R	(PPA)
6830	14-11-2012	1832	M42	Wed	Russian Gov. Single tone idling into CW: RDI RDI RDI DE RTK RTK QSA?	P1A/OOK + A1A/CW	(PPA)
6840	1-11-2012	1320	M89	Thu	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL)
6840	1-11-2012	1620	M89	Thu	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL)
6840	1-11-2012	2019	M89	Thu	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL)
6840	1-11-2012	2320	M89	Thu	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL)
6840	2-11-2012	1220	M89	Fri	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL)
6840	2-11-2012	1620	M89	Fri	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL)
6840	2-11-2012	1820	M89	Fri	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL)
6840	3-11-2012	1919	M89	Sat	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL)
6840	3-11-2012	2019	M89	Sat	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL)
6840	3-11-2012	2120	M89	Sat	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL)
6840	4-11-2012	1220	M89	Sun	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL)
6840	4-11-2012	1420	M89	Sun	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL)
6840	5-11-2012	0920	M89	Mon	VVV (x3) Q2M DE NYZ (x2) QSA ? K //10640	CW	(JPL)
6840	5-11-2012	1020	M89	Mon	VVV (x3) Q2M DE NYZ (x2) QSA ? K //10640	CW	(JPL)
6840	5-11-2012	1320	M89	Mon	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL)
6840	5-11-2012	1420	M89	Mon	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL)
6840	5-11-2012	1623	M89	Mon	Q2M de NYZ	CW	(FYM)
6840	5-11-2012	1919	M89	Mon	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL)
6840	5-11-2012	1923	M89	Mon	VVV Q2M Q2M Q2M DE NYZ NYZ	CW	(PPA)
6840	5-11-2012	2119	M89	Mon	VVV (x3) Q2M DE NYZ (x2) QSA ? K	CW	(JPL)
6840	5-11-2012	2320	M89	Mon	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL)
6840	6-11-2012	1120	M89	Tue	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL)
6840	6-11-2012	1320	M89	Tue	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL)
6840	7-11-2012	1920	M89	Wed	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL)
6840	8-11-2012	0120	M89	Thu	VVV (x3) Q2M DE NYZ (x2) QSA ? K //10640	CW	(JPL)
6840	9-11-2012	0320	M89	Fri	VVV (x3) Q2M DE NYZ (x2) QSA ? K //10640	CW	(JPL)



frequency	date	UTC	enigma	day	remarks	mode	contributor
6840	11-11-2012	0419	M89	Sun	VVV (x3) Q2M DE NYZ (x2) QSA ? K //10640	CW	(JPL)
6840	11-11-2012	1119	M89	Sun	VVV (x3) Q2M DE NYZ (x2) QSA ? K //10640	CW	(JPL)
6840	11-11-2012	1519	M89	Sun	VVV (x3) Q2M DE NYZ (x2) QSA ? K //10640	CW	(JPL)
6840	12-11-2012	1320	M89	Mon	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL)
6840	14-11-2012	0120	M89	Wed	VVV (x3) Q2M DE NYZ (x2) QSA ? K //10640	CW	(JPL)
6840	14-11-2012	1620	M89	Wed	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL)
6840	14-11-2012	1820	M89	Wed	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL)
6840	15-11-2012	1119	M89	Thu	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL)
6840	15-11-2012	1220	M89	Thu	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL)
6840	15-11-2012	1720	M89	Thu	VVV (x3) Q2M DE NYZ (x2) QSA ? K	CW	(JPL)
6840	16-11-2012	1220	M89	Fri	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL)
6840	18-11-2012	1320	M89	Sun	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL)
6840	19-11-2012	1520	M89	Mon	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL)
6840	19-11-2012	1919	M89	Mon	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL)
6840	20-11-2012	1120	M89	Tue	VVV (x3) Q2M DE NYZ (x2) QSA ? K	CW	(JPL)
6840	20-11-2012	1220	M89	Tue	VVV (x3) Q2M DE NYZ (x2) QSA ? K	CW	(JPL)
6840	20-11-2012	1520	M89	Tue	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL)
6840	21-11-2012	2320	M89	Wed	VVV (x3) GT2M DE NNMZ (x2) QSA ? K	CW	(JPL)
6840	23-11-2012	1520	M89	Fri	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL)
6840	23-11-2012	1720	M89	Fri	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL)
6840	25-11-2012	1820	M89	Sun	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL)
6840	25-11-2012	1830	M89	Sun	VVV Q2M DE NYZ etc. QSA? K	CW	(FYM)
6840	26-11-2012	1419	M89	Mon	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL)
6840	26-11-2012	1419	M89	Mon	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL)
6840	27-11-2012	1519	M89	Tue	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL)
6840	27-11-2012	2019	M89	Tue	VVV (x3) Q2M DE NYZ (x2) QSA ? K	CW	(JPL)
6840	28-11-2012	0219	M89	Wed	VVV (x3) Q2M DE NYZ (x2) QSA ? K //10640	CW	(JPL)
6841	16-11-2012	2016	M32a	Fri	Russian navy "VVV RCV DE RFH70 ZZD?"	CW	(PPA)
6845	13-11-2012	1500	S06s	Tue	537 419 6 88146 57856 98824 46186 16945 80744 419 USB 6 00000		(Spec)
6846	15-11-2012	0610	E07a	Thu	188 1 33633 101 53 51966 ... 96870 000 000	USB	(Spec)
6854	29-11-2012	2200	M08a	Thu	i.p.	CW	(MG)
6880	7-11-2012	0820	S06s	Wed	471-205/6=87104	USB	(HFD)
6880	14-11-2012	0820	S06s	Wed	471 205 6 87104 45703 97425 35503 42980 44684 205 USB 6 00000		(Spec)
6884	8-11-2012	0750	M12	Thu	888 000	CW	(FN)
6884	15-11-2012	0750	M12	Thu	888 000	CW	(FN)
6884	22-11-2012	0750	M12	Thu	888 000	CW	(FN/HFD)
6884	29-11-2012	0750	M12	Thu	888 000	CW	(FN)
6904	1-11-2012	1740	M12	Thu	257 1	CW	(HFD)
6904	1-11-2012	1940	M12	Thu	5f, "257 257 257 1 (R) msg ttt ttt"	CW	(Q-HOL)
6904	5-11-2012	1740	M12	Mon	257 1 6033 74 75569	CW	(FN)
6904	5-11-2012	1840	M12	Mon	257 1 1132 54 51826	CW	(FN)
6904	5-11-2012	1940	M12	Mon	257 1 4917 94 84567	CW	(FN/Q-HOL)
6904	8-11-2012	1740	M12	Thu	257 1 5087 73 88755	CW	(FN)
6904	8-11-2012	1940	M12	Thu	257 1 5641 63 59630	CW	(FN/Q-HOL)
6904	12-11-2012	1740	M12	Mon	257 1 4622 77 09838	CW	(FN)
6904	12-11-2012	1840	M12	Mon	257 1 2518 49 41026	CW	(FN)
6904	12-11-2012	1940	M12	Mon	257 1 6359 95 31095	CW	(FN)
6904	12-11-2012	2040	M12	Mon		CW	(FYM)
6904	13-11-2012	1940	M12	Tue	Msg	CW	(Q-HOL)
6904	15-11-2012	1740	M12	Thu	257 1 2088 50 94287	CW	(FN)
6904	19-11-2012	1740	M12	Mon	257 1 7215 74 31824	CW	(FN)
6904	19-11-2012	1840	M12	Mon	257 1 5865 43 06535	CW	(FN)
6904	19-11-2012	1940	M12	Mon	257 1 9886 98 15152	CW	(FN)
6904	22-11-2012	1740	M12	Thu	257 1 6372 67 13192	CW	(FN)
6904	22-11-2012	1940	M12	Thu	257 1 ..28 58 45159	CW	(FN/Q-HOL)



frequency	date	UTC	enigma	day	remarks	mode	contributor
6904	26-11-2012	1740	M12	Mon	257 1 7297 71 14855	CW	(FN)
6904	26-11-2012	1840	M12	Mon	257 1 6939 59 31507	CW	(FN)
6904	26-11-2012	1940	M12	Mon	257 1 1282 97 89293	CW	(FN)
6904	29-11-2012	1740	M12	Thu	257 1 1337 93 65948 22500 ... 42597 98333	CW	(MPJ/FN)
6904	29-11-2012	1940	M12	Thu	257 1 2201 66 25610	CW	(FN)
6917.5	6-11-2012	1620	MX	Tue	Beacon "L" defect keyer? 'I I L' and sequence ends with rubbish.	CW	(FYM)
6917.5	24-11-2012	0810	MX	Sat	Beacon "L"	CW	(AB)
6923	2-11-2012	1710	E11a	Fri	953 21 attention	USB	(AB/Q/HFD)
6923	9-11-2012	1710	E11a	Fri	957/21	USB	(FYM)
6923	13-11-2012	1925	E11c	Tue	758/0000/00	USB	(AB)
6923	16-11-2012	1710	E11a	Fri	957/28 attention	USB	(SW2/MPJ/Q)
6923	20-11-2012	0700	E11c	Tue	758/0000/00	USB	(CS/AB)
6923	23-11-2012	1710	E11a	Fri	955/20 67696 47910 ... 45150 26000	USB	(MPJ)
6923	26-11-2012	1710	E11a	Mon	957/30 A 22418 33597 .... 97591	USB	(HS2)
6924	5-11-2012	2020	E07	Mon	798 798 798 000	AM	(Q-HOL/HFD)
6924	7-11-2012	2020	E07	Wed	798 798 798 000	AM	(Q-HOL)
6924	9-11-2012	1710	E11a	Fri	957/21 Attention 86927 ... 98558 Out	USB	(Spec/MPJ)
6924	12-11-2012	2020	E07	Mon	698 698 698 000 (R)	AM	(Q-HOL)
6924	21-11-2012	2020	E07a	Wed	798 798 798 000	AM	(Daunt)
6924	26-11-2012	2020	E07	Mon	OM, EE, 798 798 798 1 124 49 62867 23327 20454 ... 16643 79052 000 000	AM	(Q-HOL)
6930	3-11-2012	1347	S6930	Sat	Katok-65 36 538 PROKhOD 95 27 95 83	USB	(ScSw)
6930	4-11-2012	0132	S6930	Sun	Katok-65 36 538 PROKhOD 95 27 95 83	USB	(ScSw)
6930	27-11-2012	1228	S6930	Tue	Katok-65 55673 BUMAGA 66 38 85 44	USB	(FYM)
6932	22-11-2012	2108	M8a	Thu	weak, but audible	CW	(FYM)
6932	29-11-2012	2100	M08a	Thu	i.p.	CW	(MG)
6960	7-11-2012	1800	M23	Wed	246	CW	(FMB)
6960	7-11-2012	1858	M23	Wed	246	CW	(FMB)
6966	3-11-2012	0000	---	Sat	337-05 43945 58231 03076 88242 68290 incredible 'off key' tune!	USB	(FYM)
6980.5	21-11-2012	1055	M42	Wed	Russian Gov/Intel.	RUS-ARQ 100/500	(BCI)
6982	4-11-2012	1820	E07	Sun	199 0	AM	(HFD)
6982	14-11-2012	1824	E07	Wed	tuned in too late, modulation depth seems low?	AM	(FYM)
6982	21-11-2012	1820	E07	Wed	199 199 199 000	AM	(MPJ/Daunt)
6982	25-11-2012	1820	E07	Sun	199 199 199 1 962 95	AM	(FYM)
6988	6-11-2012	1025	M32	Tue	Russian Mil (tent) "LM3Z" afterwards a '=' then sending 5LGs and 5FGS after that "DE HJ4S QTC K". Also sending character groups	CW	(FYM)
6996.3	14-11-2012	1335	M32	Wed	Russian Mil. (tentative) "1WZL 1WZL 1WZL de 4UBN 4UBN QSA? K"	CW	(FYM)
7030	21-11-2012	0730	S06s	Wed	481-230/5=58623	USB	(HFD)
7038.8	24-11-2012	0651	MX	Sat	Beacon "P"	CW	(AB)
7038.9	24-11-2012	0651	MX	Sat	Beacon "S"	CW	(AB)
7039.4	19-11-2012	1626	MX	Mon	Beacon "M" Magadan	CW	(WP3)
7088	16-10-2012	1802	M32a		Russian Navy "RMBB OK QRU K. RDL ... "51118 358T1 51118 K"	CW	(IARUMS)
7150	2-11-2012	0700	S06s	Fri	196-203/5=67423	USB	(HFD)
7150	16-11-2012	0700	S06s	Fri	196 208 5 20133 55091 85064 42524 97545 208 5 00000	USB	(Spec)
7317	1-11-2012	0820	E11	Thu	438/00	USB	(HFD)
7317	5-11-2012	0820	E11	Mon	438/00	USB	(Spec)
7317	8-11-2012	0820	E11	Thu	438/00	USB	(Spec)
7317	12-11-2012	0820	E11a	Mon	431/37 Attention 14594 86265 25124 03672 09155 02357 ... 04911 34112 Attention, msg rptd, out	USB	(AB/Spec)
7317	15-11-2012	0645	E11	Thu	517/00	USB	(Spec)
7317	15-11-2012	0820	E11a	Thu	431/37 Attention 14594 ... 34112 Out	USB	(Spec)

frequency	date	UTC	enigma	day	remarks	mode	contributor
7335	7-11-2012	0830	S06s	Wed	745 210 6 89969 35080 84737 47096 32207 46887 210 USB 6 00000		(Spec/HFD)
7335	14-11-2012	0830	S06s	Wed	745 210 6 89969 35080 84737 47096 32207 46887 210 USB 6 00000		(Spec)
7462	15-11-2012	1350	M12	Thu	104 1 482 65 77647	CW	(FN)
7463	31-10-2012	1540	M12		839 1 193 89 63430 65674 ... 85562 17362 000 000	CW	(MPJ)
7504	2-11-2012	0915	S11a	Fri	484/00	USB	(HFD)
7504	6-11-2012	0915	S11a	Tue	484/00	USB	(Spec)
7504	6-11-2012	1015	S11a	Tue	282/00	USB	(FYM)
7504	9-11-2012	0915	S11a	Fri	282/00	USB	(Q-HOL)
7504	16-11-2012	0915	S11a	Fri	282/36	USB	(Q-HOL)
7523	1-11-2012	1920	XPA	Thu	msg	MFSK	(HFD)
7523	6-11-2012	1920	XPA	Tue	158 158 158 1 (R) msg	MFSK	(Q-HOL)
7523	8-11-2012	1921	XPA	Thu	158 158 158 1 (R) msg" long message	MFSK	(Q-HOL)
7523	13-11-2012	1920	XPA	Tue	158 158 158 1 (R) msg	MFSK	(Q-HOL)
7552	7-11-2012	1520	M12	Wed	106 1 269 53 96137	CW	(FN/HFD)
7552	14-11-2012	1520	M12	Wed	106 1 300 49 27648 84982 ... 54613 55825 00000	CW	(MPJ/FN)
7552	21-11-2012	1520	M12	Wed	106 1 470 35 26316	CW	(FN)
7552	28-11-2012	1520	M12	Wed	106 1 932 57 32559	CW	(FN)
7582	3-11-2012	0632	M89	Sat	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW	(JPL)
7582	4-11-2012	0344	M89	Sun	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
7582	5-11-2012	0914	M89	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW	(JPL)
7582	8-11-2012	0113	M89	Thu	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
7582	9-11-2012	0307	M89	Fri	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW	(JPL)
7582	11-11-2012	0343	M89	Sun	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
7582	14-11-2012	0041	M89	Wed	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW	(JPL)
7582	16-11-2012	0853	M89	Fri	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW	(JPL)
7582	22-11-2012	0242	M89	Thu	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW	(JPL)
7582	22-11-2012	0954	M89	Thu	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW	(JPL)
7582	22-11-2012	1339	M89	Thu	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW	(JPL)
7582	22-11-2012	1527	M89	Thu	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW	(JPL)
7582	22-11-2012	2343	M89	Thu	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW	(JPL)
7582	23-11-2012	0710	M89	Fri	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW	(JPL)
7582	26-11-2012	0337	M89	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW	(JPL)
7582	28-11-2012	0225	M89	Wed	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW	(JPL)
7602	14-11-2012	1607	M89	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5230	CW	(JPL)
7602	26-11-2012	2038	M89	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
7607	1-11-2012	1328	M89	Thu	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
7607	1-11-2012	2014	M89	Thu	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
7607	1-11-2012	2318	M89	Thu	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
7607	2-11-2012	1214	M89	Fri	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	(JPL)
7607	4-11-2012	1216	M89	Sun	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	(JPL)
7607	4-11-2012	1414	M89	Sun	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	(JPL)
7607	4-11-2012	1943	M89	Sun	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	(JPL)
7607	5-11-2012	1929	M89	Mon	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	(JPL)
7607	5-11-2012	2129	M89	Mon	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
7607	5-11-2012	2328	M89	Mon	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	(JPL)
7607	6-11-2012	1134	M89	Tue	V WITN (x3) DE GNXG (x2) (Cont'd) //4590 in chat	CW	(JPL)
7607	6-11-2012	2056	M89	Tue	V WITN WITN WITN DE GNXG GNXG	CW	(PPA)
7607	9-11-2012	1338	M89	Fri	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
7607	9-11-2012	2055	M89	Fri	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
7607	10-11-2012	1226	M89	Sat	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
7607	11-11-2012	1110	M89	Sun	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	(JPL)
7607	12-11-2012	1327	M89	Mon	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
7607	12-11-2012	2130	M89	Mon	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
7607	14-11-2012	1605	M89	Wed	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
7607	14-11-2012	1805	M89	Wed	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)

frequency	date	UTC	enigma	day	remarks	mode	contributor
7607	15-11-2012	1126	M89	Thu	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
7607	15-11-2012	1200	M89	Thu	HR SVC 89.. 2045/ AGN 764A4/1389/1219 AR. QSL ? HR WK. NMR .5 V WITN (x3) DE GNXG (x2)(Cont'd)	CW	(JPL)
7607	16-11-2012	2155	M89	Fri	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
7607	18-11-2012	1319	M89	Sun	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
7607	19-11-2012	1513	M89	Mon	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
7607	19-11-2012	1849	M89	Mon	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
7607	20-11-2012	1213	M89	Tue	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
7607	20-11-2012	1446	M89	Tue	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
7607	21-11-2012	1143	M89	Wed	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
7607	22-11-2012	1341	M89	Thu	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	(JPL)
7607	22-11-2012	1529	M89	Thu	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	(JPL)
7607	23-11-2012	1347	M89	Fri	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
7607	23-11-2012	1454	M89	Fri	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
7607	23-11-2012	1716	M89	Fri	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
7607	23-11-2012	1931	M89	Fri	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
7607	25-11-2012	1811	M89	Sun	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	(JPL)
7607	27-11-2012	1509	M89	Tue	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
7607	27-11-2012	2008	M89	Tue	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
7648	20-11-2012	1710	M42	Tue	Russian Intel. 9 messages in blocks of 4.	FSK 200/1000	(MPJ)
7654	1-11-2012	0800	V13	Thu	New Star #4. Tune followed by coded messages. USB	USB	(AB-HK)
7654	6-11-2012	0700	V13	Tue	New Star	USB	(AB-HK)
7654	25-11-2012	0700	V13	Sun	New Star #3. Tune + messages.	USB	(AB-HK)
7688	2-11-2012	0700	V13	Fri	V13 having problems. Started at 0701 without tune and switched off after a few words. Nothing on 7654 kHz	USB	(AB-HK)
7688	3-11-2012	1327	V13	Sat	New Star radio TWN, Chinese female voice with cod- ed message	USB	(PPA)
7688	4-11-2012	1202	V13	Sun	New Star #4 1202 USB, ip,	USB	(Q-HK)
7688	22-11-2012	1300	V13	Thu	New Star. Tune + coded messages	USB	(AB-HK)
7688	23-11-2012	1200	V13	Fri	New Star #4. Tune + messages	USB	(AB-HK)
7688	24-11-2012	0510	V13	Sat	New Star in progress	USB	(AB-HK)
7688	24-11-2012	0604	V13	Sat	New Star in progress	USB	(AB-HK)
7697	5-11-2012	1340	M12	Mon	106 1 269 53 96137	CW	(FN)
7697	5-11-2012	1340	M12	Mon	106 106 106 1	CW	(FYM)
7697	19-11-2012	1340	M12	Mon	106 1 470 35 26316	CW	(FN/HFD)
7697	26-11-2012	1340	M12	Mon	106 1 932 57 32559	CW	(FN)
7724	5-11-2012	2000	E07	Mon	OM/EE. 798 798 798 000	USB	(MPJ/Q/HFD)
7724	7-11-2012	2000	E07	Wed	798 798 798 000	AM	(Q-HOL/MPJ)
7739	16-11-2012	2200	X06	Fri	Mazielka. Sequence 314265	AM	(PPA)
7789	26-11-2012	0928	M32	Mon	Russian Mil. xxx xxx wegi wegi 09638 ma_nie (?) 0795 5817 mandolin 4339 4000 k	CW	(WP3)
7834	22-10-2012	2000	S28		Buzzer on an unusual freq. Turned off at 0555 UTC on 23-10	USB	(AnRus)
7840	6-11-2012	0645	E11a	Tue	512/30=42139	USB	(HFD)
7840	7-11-2012	0830	S06s	Wed	471	USB	(HFD)
7840	14-11-2012	0830	S06s	Wed	471 205 6 87104 45703 97425 35503 42980 44684 205 6 00000	USB	(Spec)
7930	5-11-2012	1825	M12	Mon	only got the end, and two times 000	CW	(FYM)
7931	29-10-2012	1921	M12		257 257 257 1 => 5F msg	CW	(PPA)
7931	1-11-2012	1720	M12	Thu	257 1	CW	(HFD)
7931	1-11-2012	1920	M12	Thu	5f, "257 257 257 1 (R) msg ttt ttt"	CW	(Q-HOL)
7931	5-11-2012	1720	M12	Mon	257 1 6033 74 75569	CW	(FN)
7931	5-11-2012	1820	M12	Mon	257 1 1132 54 51826	CW	(FN)
7931	5-11-2012	1920	M12	Mon	257 1 4917 94 84567	CW	(FN)
7931	8-11-2012	1720	M12	Thu	257 1 5087 73 88755	CW	(FN)
7931	8-11-2012	1920	M12	Thu	257 1 5641 63 59630	CW	(FN/Q-HOL)
7931	12-11-2012	1720	M12	Mon	257 1 4622 77 09838	CW	(FN)

frequency	date	UTC	enigma	day	remarks	mode	contributor
7931	12-11-2012	1820	M12	Mon	257 1 2518 49 41026	CW	(FN)
7931	12-11-2012	1920	M12	Mon	257 1 ....	CW	(FN)
7931	15-11-2012	1720	M12	Thu	257 1 2088 50 94287	CW	(FN)
7931	15-11-2012	1920	M12	Thu	257 1 ...	CW	(FN)
7931	19-11-2012	1720	M12	Mon	257 1 7215 74 31824	CW	(FN)
7931	19-11-2012	1820	M12	Mon	257 1 5865 43 06535	CW	(FN)
7931	19-11-2012	1920	M12	Mon	257 1 9886 98 15152	CW	(FN)
7931	22-11-2012	1720	M12	Thu	257 1 6372 67 13192	CW	(FN)
7931	22-11-2012	1920	M12	Thu	257 1 ...	CW	(FN/Q-HOL)
7931	26-11-2012	1720	M12	Mon	257 1 7297 71 14855	CW	(FN)
7931	26-11-2012	1820	M12	Mon	257 1 6939 59 31507	CW	(FN)
7931	26-11-2012	1920	M12	Mon	257 1 1282 97 89293	CW	(FN)
7931	29-11-2012	1714	M32	Thu	V6TT: Russian Mil. Comms check with at least 6MF. FKLD XOGU NTLQ T..Q NLJU V8K4.	CW	(MPJ)
7931	29-11-2012	1720	M12	Thu	257 1 1337 93 65948 22500 ... 42597 98333	CW	(FN/MPJ)
7931	29-11-2012	1920	M12	Thu	257 1 ...	CW	(FN)
7938	21-11-2012	0957	M32	Wed	Russian Mil. "VVVVVV VVVVV NR 156 OK TN II CFM NIL"	CW	(BCI)
7969	19-11-2012	0721	M32	Mon	Russian Mil. "NSD9 DE 8VWB QRJ NO QYT9 K' 'SIC9 DE CW 8VWB QRJ NO QYT9 K"		(BCI)
8007	22-11-2012	0600	M08a	Thu	DGI	CW	(KC2TTK)
8009	29-11-2012	2227	M08a	Thu	i.p.	CW	(MG)
8014	6-11-2012	1225	M32a	Tue	Russian Navy. Coded txt ended abruptly with VVV DE RCV	CW	(LG2)
8015	16-11-2012	0907	M89	Fri	Msgs 5T54 3N5T 37U4 7U34 7T5. D46D DU54 74UI ? 74U6 A67D etc. See N&O 182	CW	(JPL)
8016	30-10-2012	1949	M51		5L msg	CW	(PPA)
8016	16-11-2012	0750	M51	Fri	5L "BT NR 84..."	CW	(ML4)
8017	22-11-2012	1142	M89	Thu	In tfc U75. 5UA3 5NN. .. (see N&O 182)	CW	(JPL)
8040	5-11-2012	0916	M89	Mon	V H2FL (x3) DE DRV8 (x2) (Cont'd) //6773	CW	(JPL)
8040	5-11-2012	2347	M89	Mon	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
8040	8-11-2012	0118	M89	Thu	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
8040	16-11-2012	0903	M89	Fri	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
8040	21-11-2012	1147	M89	Wed	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
8040	21-11-2012	2334	M89	Wed	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
8040	22-11-2012	2351	M89	Thu	V H2FL (x3) DE DRV8 (x2) (Cont'd) //6773	CW	(JPL)
8040	28-11-2012	2354	M89	Wed	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
8047	31-10-2012	1700	M12		463 1 6131 73 26028 17040 ... 90958 53651 000 000	CW	(MPJ)
8047	7-11-2012	1700	M12	Wed	463 1 2773 91 07558	CW	(FN/HFD)
8047	14-11-2012	1700	M12	Wed	463 1 6115 79 58702 71726 ... 95246 73402 00000	CW	(FN/MPJ)
8047	21-11-2012	1700	M12	Wed	463 1 4165 74 84024	CW	(FN)
8047	28-11-2012	1700	M12	Wed	463 1 4583 61 27906	CW	(FN)
8055	22-11-2012	1128	M89	Thu	In tfc 6U54 NA.N AIEU 4.. (see N&O 182)	CW	(JPL)
8057	5-11-2012	1320	M12	Mon	106 1 269 53 96137	CW	(FN/FYM)
8057	19-11-2012	1320	M12	Mon	106 1 470 35 26316	CW	(FN/HFD)
8057	26-11-2012	1320	M12	Mon	106 1 932 57 32559	CW	(FN)
8062	8-11-2012	1330	M12	Thu	104 000	CW	(FN)
8062	10-11-2012	1330	M12	Sat	104 000	CW	(FN)
8062	15-11-2012	1330	M12	Thu	104 1 482 65 77647	CW	(FN)
8062	17-11-2012	1330	M12	Sat	104 1	CW	(HFD)
8062	22-11-2012	1330	M12	Thu	104 000	CW	(FN)
8062	24-11-2012	1330	M12	Sat	104 000	CW	(FN)
8062	29-11-2012	1330	M12	Thu	104 000	CW	(FN)
8067	13-11-2012	1018	M--	Tue	Unid 687 1 7967 30 77252 69290 ... 73199 48051 0 0 0 0 0 0	CW	(MPJ)
8073	20-11-2012	1154	MVC03	Tue	MSG EE NR NR 300 CK 34 35 1120 1606 BT (see N&O 182)	CW	(JPL-AUS)
8073	21-11-2012	1142	MVC03	Wed	773 TU5 773 356 4.6 .93 345 ...(Cont'd)	CW	(JPL)

frequency	date	UTC	enigma	day	remarks	mode	contributor
8091	6-11-2012	1045	E11	Tue	469/00	USB	(HFD)
8091	6-11-2012	1045	E11	Tue	469/00	USB	(MPJ)
8091	7-11-2012	1045	E11	Wed	469/00	USB	(Spec)
8091	13-11-2012	1045	E11	Tue	465/31 43231 91967 ... 39267 69849	USB	(MPJ)
8091	14-11-2012	1045	E11a	Wed	465/31 Attention 43231 91967 ... 39267 69849	USB	(MPJ/FYM/Spec)
8091	27-11-2012	1045	E11	Tue	576/00	USB	(MYK)
8091	28-11-2012	1045	E11	Wed	469/00	USB	(MPJ)
8098	19-11-2012	1800	M08a	Mon	"NWWIN DIGAN UADDA" repeated for about 1 minute, followed by 30 minutes of 5LG format groups.	CW	(NR)
8106	8-11-2012	1447	M51	Thu	French CSTEI via Favières "NR 06 N 08 15:45:34 1984 BT EDXZX FJZAJ ..."	CW	(MPJ)
8110	3-11-2012	0632	M89	Sat	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW	(JPL)
8110	5-11-2012	0914	M89	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW	(JPL)
8110	9-11-2012	0307	M89	Fri	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW	(JPL)
8110	14-11-2012	0041	M89	Wed	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW	(JPL)
8110	16-11-2012	0853	M89	Fri	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW	(JPL)
8110	22-11-2012	0242	M89	Thu	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW	(JPL)
8110	22-11-2012	0954	M89	Thu	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW	(JPL)
8110	22-11-2012	1339	M89	Thu	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW	(JPL)
8110	22-11-2012	1527	M89	Thu	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW	(JPL)
8110	22-11-2012	2343	M89	Thu	V 7NPE (x3) DE QV5B (x2) Note: Did not change to night freqs (4225/5500) //7582	CW	(JPL)
8110	23-11-2012	0710	M89	Fri	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW	(JPL)
8110	26-11-2012	0337	M89	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW	(JPL)
8110	28-11-2012	0225	M89	Wed	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW	(JPL)
8112	7-11-2012	1500	M12	Wed	106 1 269 53 96137 44933 ... 89827 44909 0 0 0 0 0 0	CW	(FN/HFD/MPJ)
8112	14-11-2012	1500	M12	Wed	106 106 106 1	CW	(FYM/FN)
8112	14-11-2012	1500	M12	Wed	106 1 300 49 27648 84982 ... 54613 55825 00000	CW	(MPJ)
8112	21-11-2012	1500	M12	Wed	106 1 470 35 26316 33155 ... 50341 13231 0 0 0 0 0 0	CW	(MPJ/FN)
8112	28-11-2012	1500	M12	Wed	106 1 932 57 32559 19184 ... 33738 05609 0 0 0	CW	(MPJ/FN)
8116	1-11-2012	1740	M12	Thu	124 1	CW	(HFD)
8116	1-11-2012	1842	M12	Thu	ip, "...msg ttt ttt"	CW	(Q-HOL)
8116	2-11-2012	1840	M12	Fri	124 124 124 1 (R) 3928 83 (R) msg ttt ttt"	CW	(Q-HOL)
8116	6-11-2012	1910	M12	Tue	124 1 6418 59 44920	CW	(FN/HFD)
8116	6-11-2012	1910	M12	Tue	124 124 124 1 (R) ...5t839 868tt 3916t 51149 ttt ttt	CW	(Q-HOL)
8116	7-11-2012	1446	M32	Wed	6SZS: Russian Military Comms check with at least _74W ZWVH.	CW	(MPJ)
8116	8-11-2012	1740	M12	Thu	124 1 8766 72 03962	CW	(FN)
8116	8-11-2012	1840	M12	Thu	124 1 3244 55 59708	CW	(FN/Q-HOL)
8116	9-11-2012	1840	M12	Fri	124 1 8707 85 27129	CW	(FN/Q-HOL)
8116	13-11-2012	1910	M12	Tue	124 124 124 1 (R) 4038 59 4038 59 msg 000 000	CW	(Q-HOL/FN)
8116	15-11-2012	1740	M12	Thu	124 1 1253 73 99374	CW	(FN)
8116	15-11-2012	1840	M12	Thu	124 1 ...	CW	(FN)
8116	16-11-2012	1840	M12	Fri	ip,"124 124 124 1 (R) msg ttt ttt"	CW	(Q-HOL/FN)
8116	20-11-2012	1910	M12	Tue	124 1 5597 69 81914	CW	(FN)
8116	22-11-2012	1740	M12	Thu	124 1 5724 70 45216	CW	(FN)
8116	22-11-2012	1940	M12	Thu	124 124 124 1 (R) msg 000 000	CW	(Q-HOL)
8116	23-11-2012	1840	M12	Fri	124 1 934 54 07444	CW	(FN/Q-HOL)
8116	27-11-2012	1910	M12	Tue	124 1 ...	CW	(FN)
8116	29-11-2012	1740	M12	Thu	124 1 ...	CW	(FN)
8116	29-11-2012	1840	M12	Thu	124 1 2339 82 13869	CW	(FN)
8123	1-11-2012	1900	XPA	Thu	msg	MFSK	(HFD)
8123	6-11-2012	1900	XPA	Tue	158 158 158 1 (R) msg very long message	MFSK	(Q-HOL)
8123	8-11-2012	1900	XPA	Thu	158 158 158 1 (R) msg" long message	MFSK	(Q-HOL)
8123	13-11-2012	1900	XPA	Tue	158 158 158 1 (R) msg	MFSK	(Q-HOL)
8123	27-11-2012	1905	XPA	Tue	Too weak to copy and in QRM.	MFSK	(MPJ)
8123	29-11-2012	1900	XPA	Thu	Start Tones Found, high sync tone and symbol timing found. Nothing else seem to make sense.	MFSK	(MPJ)



frequency	date	UTC	enigma	day	remarks	mode	contributor
8136	11-11-2012	1550	M42	Sun	Russian Intel. 8 messages of 34 or 35 blocks	FSK 200/1000	(MPJ)
8136	24-11-2012	0725	HM01	Sat	appears to be rebroadcasting 24-11-2012 0659 from 5883 kHz	AM/RDFT	(KC2TTK)
8183	4-11-2012	1800	E07	Sun	199 0	AM	(HFD)
8186	7-11-2012	1910	M12	Wed	221 1 770 153 77671	CW	(FN)
8186	11-11-2012	1910	M12	Sun	221 1 770 153 77671	CW	(FN)
8186	18-11-2012	1910	M12	Sun	221 1 708 219 97647	CW	(FN)
8186	21-11-2012	0843	HM01	Wed	ip	AM/RDFT	(MG)
8186	25-11-2012	1910	M12	Sun	221 1 570 187 29087	CW	(FN/FYM)
8193	31-10-2012	1520	M12		839 1 193 89 63430 65674 ... 85562 17362 000 000	CW	(MPJ)
8215	2-11-2012	0710	S06s	Fri	196	USB	(HFD)
8215	16-11-2012	0710	S06s	Fri	196 208 5 20133 55091 85064 42524 97545 208 5 00000	USB	(Spec)
8260	3-11-2012	1210	S06s	Sat	254 918 6 74537 56440 64518 51295 27424 41926 918 6 00000	USB	(Spec)
8345	3-11-2012	0603	M32a	Sat	Russian navy "rcv rmyz 456 18 31 1001 456 = sml for rje73 rjh45 = 31061 99366 10156 41598 41606 10190 40120 50000 70211 85101 22202 00240 299// 399// 31014 = + rmyz k"	CW	(WP3)
8345	3-11-2012	0610	M32a	Sat	Russian navy "riw de rmma qyt9 qls k - ok qsx 9396 k"	CW	(WP3)
8345	3-11-2012	0925	M32a	Sat	Russian navy. RH199 wkg RMP. Also "rcv de rir98 qyt4 qsa? k"; "rcv de rf70 qyt4 qsx 8240/ 1?994 qwh 12414 k -qyt4 qwh 7641 k"; "rcv de rf71 qyt4 qsa4 k - qyt4 wrk k - qsx 5341 k - qyt4 qsx 5340 k"	CW	(WP3)
8345	11-11-2012	1807	M32a	Sun	Russian Navy: rmp de rmc99 967 15 11 2140 2240 967 = for rjd38 rjh45 = 11181 99551 10181 ... 22272 ... = + rmc99 k	CW	(WP3)
8345	15-11-2012	0605	M32a	Thu	Russian Navy."rmp de rmc99 - rit de rmp99 774 15 15 1000 774 = for rjh45 rjd38 = 15061 99570 10117 42/98 62708 10060 _0220 57020 70222 8//// 22210 00060 15012 = + rmc99 k	CW	(WP3)
8345	15-11-2012	0615	M32a	Thu	Russian Navy Ship Ivan Bubnov "rcv de rcjg 641 18 15 1000 641 = sml for rjh45 rje73 = 15061 99367 10262 41598 20105 10180 40191 53010 70200 82500 22200 0020020000 88000 15014 = + rcjg k	CW	(WP3)
8345	18-11-2012	1826	M32a	Sun	Russian Navy "rit de rmc99 249 15 18 2200 249 = for rjh45 rjd38 = 18181 99598 10036 ... 22242 ... 18012 = + rmc99 k"	CW	(WP3)
8345	18-11-2012	1839	M32a	Sun	Russian Navy "rit de ral48 682 21 18 2205 682 = sml for rjh74 rjh45 = 18181 99620 10035 ... 22242 ... 18017 = + ral48 k"	CW	(WP3)
8345	20-11-2012	1205	M32a	Tue	Russian Navy. rmp de rmc99 131 15 20 1600 131 = for rjd38 rjh45 = 20121 99556 10128 42/97 91510 10060 40200 51000 70222 81111 22233 00050 20012 = + rmc99 k	CW	(WP3)
8345	23-11-2012	1809	M32a	Fri	RCJG: Russian Navy Ship Ivan Bubnov wkg RCV. "rcv de rcjg 529 18 23 2200 529 = for rjh45 rje73 = 23181 99345 10349 41597 82004 10190 40140 54000 70222 88300 22242 00200 20000 88000 23014 = + rcjg k"	CW	(WP3)
8345	25-11-2012	1805	M32a	Sun	RCJG: Russian Navy Ship Ivan Bubnov "rcv de rcjg 588 18 25 2200 588 = sml for rjh45 rje73 = 25181 99316 10323 41598 20105 10210 40169 53020 70110 82400 22200 00210 20000 88000 25014 = + rcjg k"	CW	(WP3)
8345	25-11-2012	1814	M32a	Sun	RAL48: Russian Navy "rit de ral48 569 21 25 2205 569 = sml for rjh74 rjh45 = 25181 99709 10320 41497 71514 10036 40161 52006 70222 87300 22232 00070 20403 3//// 4//// 5//// 6//// 25017 = + ral48 k"	CW	(WP3)
8345	26-11-2012	0005	M32a	Mon	RCJG: Russian Navy Ship Ivan Bubnov "rcv de rcjg 181 18 26 0400 181 = sml for rjh45 rje73 = 26001 99316 10323 41498 53304 10190 40160 54000 70200 87110 22200 00210 20000 88000 26014 = + rcjg k"	CW	(WP3)
8345	26-11-2012	0105	M32a	Mon	RCJG: Russian Navy Ship Ivan Bubnov "rcv de rcjg 517	CW	(WP3)



frequency	date	UTC	enigma	day	remarks	mode	contributor
					69 26 0500 517 = for rjt22 = 22222 55214 82983 49131 16172 45928 ..."		
8345	26-11-2012	0605	M32a	Mon	RCJG: Russian Navy Ship Ivan Bubnov "rcv de rcjg 759 18 26 10000 759 = sml for rjh45 rje73 = 26061 99316 10323 41498 ... 22200 ... 26014 = + rcjg k"	CW	(WP3)
8420	5-11-2012	1300	S06s	Mon	831-954/6=78452	USB	(HFD/FYM/Spec)
8420	12-11-2012	1300	S06s	Mon	831 954 6 78452 13215 71804 56327 89512 33102 954 6 00000	USB	(Spec/AB)
8494.7	9-11-2012	2333	MX	Fri	Beacon "D" Sevastopol	CW	(SW2)
8494.7	26-11-2012	1038	MX	Mon	Beacon "D" Sevastopol	CW	(WP3)
8494.9	26-11-2012	1038	MX	Mon	Beacon "S" Severomorsk	CW	(WP3)
8495	12-11-2012	1450	MX	Mon	Beacon "C"	CW	(SW2)
8495	24-11-2012	0651	MX	Sat	Beacon "C"	CW	(AB)
8495	26-11-2012	1038	MX	Mon	Beacon "C" Moscow	CW	(WP3)
8497.4	24-11-2012	0810	MX	Sat	Beacon "L"	CW	(AB)
8497.75	1-11-2012	1926	MX	Thu	Beacon "L"	CW	(Q-HOL)
8497.8	2-11-2012	1603	MX	Fri	Beacon "L"	CW	(Q-HOL)
8497.8	6-11-2012	1757	MX	Tue	Beacon "L"	CW	(Q-HOL)
8497.8	6-11-2012	1757	MX	Tue	Beacon "L"	CW	(Q-HOL)
8497.8	12-11-2012	1453	MX	Mon	Beacon "L"	CW	(SW2)
8497.8	26-11-2012	1056	MX	Mon	Beacon "L" St. Petersburg	CW	(WP3)
8497.83	23-11-2012	1756	MX	Fri	Beacon "L" Sankt Peterburg	CW	(MPJ)
8588	14-11-2012	1505	XSL	Wed	Japanese Slot Machine	QPSK	(FYM)
8680	3-11-2012	1200	S06s	Sat	254 918 6 74537 56440 64518 51295 27424 41926 918 6 00000	USB	(Spec)
8712	14-11-2012	0850	S06s	Wed	328 00000	USB	(Spec)
8789	3-11-2012	0634	M89	Sat	V WITN (x3) DE GNXG (x2) (Cont'd) //10779	CW	(JPL)
8789	5-11-2012	1002	M89	Mon	V WITN (x3) DE GNXG (x2) (Cont'd) //10779	CW	(JPL)
8789	5-11-2012	2349	M89	Mon	V WITN (x3) DE GNXG (x2) (Cont'd) //10779	CW	(JPL)
8789	8-11-2012	0115	M89	Thu	V WITN (x3) DE GNXG (x2) (Cont'd) //10779	CW	(JPL)
8789	14-11-2012	0043	M89	Wed	V WITN (x3) DE GNXG (x2) (Cont'd) //10779	CW	(JPL)
8789	21-11-2012	0313	M89	Wed	77 NA 0001 CK 11 DH K5 74 574 (see N&O 182)	CW	(JPL)
8789	21-11-2012	2330	M89	Wed	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
8789	22-11-2012	0059	M89	Thu	V WITN (x3) DE GNXG (x2) (Cont'd) //10779	CW	(JPL)
8789	22-11-2012	0249	M89	Thu	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
8789	23-11-2012	0716	M89	Fri	In chat VV VV 7.ZKJS ZKJS DE HHOR K K //10779 in R/S. See N&O 182	CW	(JPL)
8789	26-11-2012	0340	M89	Mon	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
8789	28-11-2012	0227	M89	Wed	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
8789	28-11-2012	2351	M89	Wed	V WITN (x3) DE GNXG (x2) (Cont'd) //10779	CW	(JPL)
8812	1-11-2012	0931	S--	Thu	YL/RR 431 (R) msg 00000	AM	(Q-HOL)
8812	22-11-2012	0930	S06s	Thu	314-962/5=33796	USB	(HFD)
8816	20-11-2012	0950	M32b	Tue	Russian Naval Air Transport. rjf94 rjc38 de 52415 qql ulpe 0941qbg 5500 - qth 6622 3334 qtr 1013 qbd 3000 qre xlmv 1110 - qqm xlmv 1109 sk	CW	(WP3)
8816	20-11-2012	1230	M32b	Tue	52411: Russian Naval Air Transport. rjf94 rjc38 - qto 1226 qrd xlaa xlmv qre 1350 qbd 5000 - qth 6607 3914 qtr 1326 qbg 5800 qre xlaa 1400 k - qqm xlaa 1358 sk	CW	(WP3)
8816	22-11-2012	0856	M32b	Thu	Russian Naval Air Transport Kaliningrad "13004 de rcb qsa? k" (every 15 minutes since then)	CW	(WP3)
8816	22-11-2012	1420	M32b	Thu	Russian Naval Air Transport "rjf94 rjc38 de 52411 qto 1412 qrd xlmv xlaa qre 1550 qbd 5000 - qth ulmm 124320 qtr 1510 qbg 5500 qre xlmv 1610 - qqm xlmv 1514 sk"	CW	(WP3)
8855	20-11-2012	0404	M89	Tue	BT BT BT BT BT D3A. UAUD UDTU 6T74 UT45 A7NN ...	CW	(JPL)
8855	20-11-2012	0438	M89	Tue	BT A7UM 335D 74AA ...	CW	(JPL)
9040	21-11-2012	0907	V02a	Wed	ip	AM	(MG)
9050	6-11-2012	0550	S28	Tue	Buzzer on 2nd harmonic of 4525 kHz	USB	(AnRus)
9063	14-10-2012	0630	SK01		header truncated; Tx; strong QRN	RDFT	(KC2TTK)

frequency	date	UTC	enigma	day	remarks	mode	contributor
9063	21-11-2012	0907	HM01	Wed	ip	AM/RDFT	(MG)
9063	22-11-2012	0637	HM01	Thu	86485 46605 36162 69641 51905 68185	AM	(MG)
9069	13-11-2012	1700	M42	Tue	Russian Intel. 34- or 36-block messages.	FSK 200/1000	(MPJ)
9069	20-11-2012	1700	M42	Tue	Russian Intel. 9 messages in blocks of 4.	FSK 200/1000	(MPJ)
9112	4-11-2012	1002	M08a	Sun	ip, 5f	MCW	(Q-USA)
9112	11-11-2012	1000	M08a	Sun	ip, 5f, and text "ngiwa dtwta uwwaa (R) ngiwa (5R) = = = msg AR AR AR dtwta (5R) = = = msg AR AR AR uwwaa (5R) = = = msg AR AR AR SK "	CW	(Q-USA)
9112	18-11-2012	1007	V02a	Sun	ip, YL, SS, 5fG "...27911 59151 90871 34061 39841 77571..."	AM	(Q-USA)
9112	25-11-2012	1027	V02a	Sun	ip, YL, SS, 5fG	AM	(Q-HOL)
9124	22-11-2012	0611	HM01	Thu	86485 46605 36162 69641 51905 68185	AM	(MG)
9135	6-11-2012	0810	S06s	Tue	352	USB	(HFD)
9135	6-11-2012	0810	S06s	Tue	352 891 6 89258 78393 90318 92956 33697 89561 891 6 00000	USB	(Spec)
9135	13-11-2012	0810	S06s	Tue	352 891 6 89258 78393 90318 92956 33697 89561 891 6 00000	USB	(Spec/FYM)
9135	27-11-2012	0810	S06s	Tue	352 810 6 17266 35490 89127 67881 23993 46571 810 6 00000	USB	(AB)
9136	18-11-2012	1550	M42	Sun	Russian Intel. Msgs in blocks of 2.	FSK 200/1000	(MPJ)
9145	2-11-2012	1106	M32a	Fri	RIW: Navy Moscow ip, "...12858 tt 757... = riwk"	CW	(Q-HOL)
9153	16-11-2012	1434	M95	Fri	Sounds hand keyed "DE XSV70"	CW	(FYM)
9162	8-11-2012	1310	M12	Thu	104 000	CW	(FN)
9162	10-11-2012	1310	M12	Sat	104 000	CW	(FN)
9162	15-11-2012	1310	M12	Thu	104 1 482 65 77647	CW	(FN)
9162	17-11-2012	1310	M12	Sat	104 1	CW	(HFD)
9162	22-11-2012	1310	M12	Thu	104 000	CW	(FN)
9162	24-11-2012	1310	M12	Sat	104 000	CW	(FN)
9162	29-11-2012	1310	M12	Thu	104 000	CW	(FN)
9170	13-11-2012	1510	S06s	Tue	537 419 6 88146 57856 98824 46186 16945 80744 419 6 00000	USB	(Spec)
9176	1-11-2012	1700	M12	Thu	257 1 9955 90 698_2 57032 ... 67458 285__ 000 000	CW	(MPJ/HFD)
9176	1-11-2012	1903	M12	Thu	ip, "...msg ttt ttt"	CW	(Q-HOL)
9176	5-11-2012	1700	M12	Mon	257 1 6033 74 75569	CW	(FN)
9176	5-11-2012	1800	M12	Mon	257 1 1132 54 51826 ... 1132 54 (R) msg ttt ttt	CW	(FN/Q-HOL)
9176	5-11-2012	1900	M12	Mon	257 1 4917 94 84567	CW	(FN)
9176	6-11-2012	1700	M12	Tue	257 1 6033 74 75569 78462 ... 20592 01242 000 000	CW	(MPJ)
9176	8-11-2012	1700	M12	Thu	257 1 5087 73 88755 44382 ... 52032 29103 00000	CW	(MPJ/FN)
9176	8-11-2012	1900	M12	Thu	257 1 5641 63 59630	CW	(FN)
9176	12-11-2012	1700	M12	Mon	257 1 4622 77 09838 44489 ... 95577 51566 0 0 0 0 0 0	CW	(MPJ/FN)
9176	12-11-2012	1800	M12	Mon	257 1 2518 49 41026	CW	(FN)
9176	12-11-2012	1900	M12	Mon	257 1 ....	CW	(FN)
9176	15-11-2012	1700	M12	Thu	257 1 2088 50 94287	CW	(FN)
9176	15-11-2012	1900	M12	Thu	257 1 etc	CW	(MPJ/FN)
9176	19-11-2012	1700	M12	Mon	257 1 7215 74 31824 32575 ... 76836 46776 0 0 0 0 0 0	CW	(MPJ/FN)
9176	19-11-2012	1800	M12	Mon	257 1 5865 43 06535	CW	(FN)
9176	19-11-2012	1900	M12	Mon	257 1 9886 98 15152	CW	(FN)
9176	22-11-2012	1700	M12	Thu	257 1 6372 67 13192 24385 ... 65415 44414 0 0 0 0 0 0	CW	(MPJ/FN)
9176	22-11-2012	1900	M12	Thu	257 1 ...	CW	(FN)
9176	22-11-2012	1903	M12	Thu	ip	CW	(Q-HOL)
9176	26-11-2012	1700	M12	Mon	257 1 7297 71 14855	CW	(FN)
9176	26-11-2012	1800	M12	Mon	257 257 257 1 6939 49 31507 08438 95755 92920 ... 66854 26797 06002 000 000	CW	(AB/FN)
9176	26-11-2012	1900	M12	Mon	257 1 1282 97 89293	CW	(FN)
9176	29-11-2012	1700	M12	Thu	257 1 1337 93 65948	CW	(FN/MPJ)
9187	5-11-2012	1300	M12	Mon	106 1 269 53 96137	CW	(FN/FYM/ML4)
9187	6-11-2012	1300	M12	Tue	106 1 269 53 96137 44933 ... 89827 44909 000 000	CW	(MPJ)
9187	12-11-2012	1300	M12	Mon	106 1 (stops & restarts) 106/1 300 49 27648 84982 ...	CW	(MPJ)

frequency	date	UTC	enigma	day	remarks	mode	contributor
					54613 55825 0 0 0 0 0 0. Vs (hand keyed) 1 K		
9187	19-11-2012	1300	M12	Mon	106 1 470 35 26316 33155 ... 50341 13231 0 0 0 0 0 0	CW	(FN/HFD/MPJ)
9187	26-11-2012	1300	M12	Mon	106 1 932 57 32559 19184 ... 33738 05609. Transmitter fault at callup	CW	(FN/MPJ)
9213	4-11-2012	1219	M51	Sun	ip, 5fG	CW	(Q-HOL)
9223	31-10-2012	1500	M12		839 1 193 89 63430 65674 ... 85562 17362 000 000	CW	(MPJ)
9240	21-11-2012	1021	HM01	Wed	in progress	AM/RDFT	(MG)
9240	21-11-2012	1036	HM01	Wed	in progress	AM/RDFT	(MG)
9240	21-11-2012	1049	HM01	Wed	in progress	AM/RDFT	(MG)
9250	22-10-2012	2015	S28		Buzzer on 2nd harmonic	USB	(AnRus)
9250	6-11-2012	0457	S28	Tue	Buzzer on 2nd harmonic of 4625 kHz	USB	(AnRus)
9264	1-11-2012	1720	M12	Thu	124 1	CW	(HFD)
9264	1-11-2012	1822	M12	Thu	ip, "...msg ttt ttt"	CW	(Q-HOL)
9264	2-11-2012	1820	M12	Fri	124 124 124 1 (R) 3928 83 (R) msg ttt ttt"	CW	(Q-HOL)
9264	6-11-2012	1850	M12	Tue	124 1 6418 59 44920	CW	(FN/HFD)
9264	8-11-2012	1720	M12	Thu	124 1 8766 72 03962	CW	(FN)
9264	8-11-2012	1820	M12	Thu	124 1 3244 55 59708	CW	(FN)
9264	13-11-2012	1850	M12	Tue	124 1 4038 59 28617	CW	(FN)
9264	13-11-2012	1854	M12	Tue	ip,"msg ttt ttt"	CW	(Q-HOL)
9264	15-11-2012	1720	M12	Thu	124 1 1253 73 99374	CW	(FN)
9264	15-11-2012	1820	M12	Thu	124 1 ...	CW	(FN)
9264	16-11-2012	1820	M12	Fri	124 1 8265 80 28759	CW	(FN)
9264	16-11-2012	1822	M12	Fri	ip,"msg ttt ttt"	CW	(Q-HOL)
9264	20-11-2012	1850	M12	Tue	124 1 5597 69 81914	CW	(FN)
9264	22-11-2012	1720	M12	Thu	124 1 5724 70 45216	CW	(FN)
9264	23-11-2012	1820	M12	Fri	124 1 934 54 07444	CW	(FN)
9264	29-11-2012	1820	M12	Thu	124 1 2339 82 13869	CW	(FN)
9286	4-11-2012	1850	M12	Sun	221 000	CW	(FN/HFD)
9286	7-11-2012	1850	M12	Wed	221 1 770 153 77671	CW	(FN)
9286	11-11-2012	1850	M12	Sun	not intelligable	CW	(FN)
9286	18-11-2012	1850	M12	Sun	221 1 708 219 97647	CW	(FN)
9286	21-11-2012	1850	M12	Wed	221 1 570 187 29087	CW	(FN)
9286	25-11-2012	1850	M12	Sun	221 1 570 187 29087	CW	(FN/FYM)
9286	28-11-2012	1850	M12	Wed	221 000	CW	(FN)
9300	28-11-2012	1600	E06	Wed	842 842 842 ... only callup, interruptions, noises, out around 1620z	AM	(FN)
9327	7-11-2012	1910	M12	Wed	938 1 698 63 1658?	CW	(FN/HFD)
9327	21-11-2012	1910	M12	Wed	938 1 5520 52 39249	CW	(FN)
9327	28-11-2012	1910	M12	Wed	938 1 7867 70 43437	CW	(FN)
9340	14-11-2012	0900	S06s	Wed	328 00000	USB	(Spec)
9435	7-11-2012	0530	S06s	Wed	153, carrier up at ~0517z At ~0523 2 x 153 after that carrier became stronger	USB	(FYM)
9446	5-11-2012	0830	E11a	Mon	647/31 Attention 83236 ... 34758 Out	USB	(Spec/HFD)
9446	5-11-2012	0900	E11	Mon	534/00	USB	(Spec/HFD)
9446	7-11-2012	0900	E11	Wed	534/00	USB	(Spec)
9446	12-11-2012	0830	E11a	Mon	641/34 Attention 27436 59855 35041 38504 76151 22279 ... 75136 36253 Attention, msg rptd, out	USB	(AB/Spec)
9446	12-11-2012	0900	E11	Mon	534/00	USB	(AB/FYM/Spec)
9446	14-11-2012	0900	E11	Wed	534/00	USB	(Spec)
9540	1-11-2012	0945	S--	Thu	YL/RR ip msg 00000	AM	(Q-HOL)
9540	22-11-2012	0940	S06s	Thu	314	USB	(HFD)
9610	2-11-2012	1020	S11a	Fri	426/00	USB	(HFD)
9610	16-11-2012	1020	S11a	Fri	426/00	USB	(AB/Q-HOL/Spec)
9610	30-11-2012	1020	S11a	Fri	426/00	USB	(FYM)
9766	16-11-2012	1428	V16	Fri	in progress	USB	(CS)
9820	8-11-2012	0810	E17z	Thu	674	USB	(HFD)
9820	15-11-2012	0810	E17z	Thu	674 203 5 88620 58069 61732 74537 57440 203 5 00000	USB	(Spec)

frequency	date	UTC	enigma	day	remarks	mode	contributor
9824	7-11-2012	0910	S06s	Wed	328 00000. In the 'background' other 'S06s' audible.	USB	(FYM)
9824	7-11-2012	0910	S06s	Wed	Mixing with "328" weakly "124" could be heard a few times. After that the transmitter was switched off. Thus the '124' was not a separate signal.	USB	(FYM)
9824	7-11-2012	0915	S06	Wed	328 328 328 00000	USB	(Avare)
9982	12-11-2012	1430	V16	Mon		USB	(FYM)
9982	12-11-2012	1439	V16	Mon		USB	(FYM)
9982	12-11-2012	1450	V16	Mon	Message consists of repeating: X X X Y Y Y Z Z, ending with 'zai jian' (= goodbye). See N&O 182	USB	(FYM)
10180	2-11-2012	1216	M89	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
10180	3-11-2012	0636	M89	Sat	In tfc "U537 A7D4 6NT3 36NT 754N UND6 D443 5DUD 5A7D 6N56". See N&O 182	CW	(JPL)
10180	4-11-2012	0414	M89	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
10180	4-11-2012	1213	M89	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
10180	5-11-2012	0911	M89	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
10180	5-11-2012	1009	M89	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
10180	6-11-2012	1149	M89	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
10180	11-11-2012	1114	M89	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
10180	14-11-2012	1051	M89	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
10180	15-11-2012	1130	M89	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
10180	16-11-2012	1205	M89	Fri	In tfc - UGT COMM msg - mostly unreadable. V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
10180	20-11-2012	0356	M89	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
10180	20-11-2012	0356	M89	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
10180	21-11-2012	1137	M89	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
10213	13-11-2012	1810	E11a	Tue	983/10 Attention 29537 ... 21133 Out	USB	(Spec)
10213	24-11-2012	1810	E11a	Sat	988/10=05525	USB	(HFD)
10244	24-10-2012	1322	E07		037 037 037 1 4041 27 68764 71158 48422 45561 ... 14842 71524 000 000	AM	(LG2)
10255	6-11-2012	1120	M--	Tue	loads of 5letter/5number groups for very long time	CW	(FYM)
10265	6-11-2012	0800	S06s	Tue	352 891 6 89258 78393 90318 92956 33697 89561 891 6 00000	USB	(Spec/HFD)
10265	13-11-2012	0800	S06s	Tue	352 891 6 89258 78393 90318 92956 33697 89561 891 6 00000	USB	(Spec/FYM)
10265	27-11-2012	0800	S06s	Tue	352 810 6 17266 35490 89127 67881 23993 46571 810 6 00000	USB	(AB)
10265.97	17-11-2012	1135	CHN	Sat	Unid Chinese. 4FG messages	4+4 75/3000 LSB	(EW)
10282	4-11-2012	1830	M12	Sun	221 000	CW	(FN/HFD)
10282	7-11-2012	1830	M12	Wed	221 1 770 153 77671	CW	(FN)
10286	18-11-2012	1830	M12	Sun	221 1 708 219 97647	CW	(FN)
10286	21-11-2012	1830	M12	Wed	221 1 ...	CW	(FN)
10286	25-11-2012	1830	M12	Sun	221 1 570 187 29087	CW	(FN)
10290	29-11-2012	1209	S06s	Thu	425 425 425 00000	USB	(FYM)
10343	1-11-2012	1700	M12	Thu	124 1 3889 76 75190 31657 ... _8131 _812_ 000 000	CW	(MPJ/HFD)
10343	2-11-2012	1800	M12	Fri	124 124 124 1 (R) 3928 83 (R) msg ttt ttt"	CW	(Q/MPJ)
10343	6-11-2012	1830	M12	Tue	124 1 6418 59 44920	CW	(FN/HFD/Q-HOL)
10343	8-11-2012	1700	M12	Thu	124 1 8766 72 03962	CW	(FN)
10343	8-11-2012	1800	M12	Thu	124 1 3244 55 59708	CW	(FN)
10343	9-11-2012	1800	M12	Fri	124 1 8707 85 27129	CW	(FN)
10343	9-11-2012	1800	M12	Fri	124 1 8707 85 27129 77085 ... 83326 02854 0 0 0 0 0	CW	(MPJ)
10343	13-11-2012	1830	M12	Tue	124 1 4038 59 28617	CW	(FN/FYM/MPJ/Q)
10343	15-11-2012	1700	M12	Thu	124 1 1253 73 99374	CW	(FN)
10343	15-11-2012	1800	M12	Thu	124 1 ...	CW	(FN)
10343	16-11-2012	1800	M12	Fri	124 1 8265 80 28759	CW	(FN)
10343	20-11-2012	1830	M12	Tue	124 1 ...	CW	(FN)
10343	22-11-2012	1700	M12	Thu	124 1 5724 70 45216	CW	(FN)
10343	23-11-2012	1800	M12	Fri	124 1 934 54 07444	CW	(FN)

frequency	date	UTC	enigma	day	remarks	mode	contributor
10343	29-11-2012	1800	M12	Thu	124 1 ...	CW	(FN)
10598	7-11-2012	1850	M12	Wed	938 1 698 63 1658?	CW	(FN/HFD)
10598	21-11-2012	1850	M12	Wed	938 1 5520 52 39249	CW	(FN)
10598	28-11-2012	1850	M12	Wed	938 1 7867 70 43437	CW	(FN)
10635	5-11-2012	1310	S06s	Mon	831	USB	(HFD)
10635	12-11-2012	1310	S06s	Mon	831 954 6 78452 13215 79804 56327 89512 33102 954 6 00000	USB	(AB/FYM)
10635	12-11-2012	1310	S06s	Mon	831 954 6 78452 13215 71804 56327 89512 33102 954 6 00000	USB	(Spec)
10640	5-11-2012	0920	M89	Mon	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL)
10640	5-11-2012	1020	M89	Mon	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL)
10640	8-11-2012	0120	M89	Thu	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL)
10640	9-11-2012	0320	M89	Fri	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL)
10640	11-11-2012	0419	M89	Sun	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL)
10640	11-11-2012	1119	M89	Sun	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL)
10640	11-11-2012	1519	M89	Sun	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL)
10640	14-11-2012	0120	M89	Wed	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL)
10640	28-11-2012	0219	M89	Wed	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL)
10690	13-11-2012	1400	E11a	Tue	982/10=72367	USB	(HFD)
10690	13-11-2012	1400	E11a	Tue	982/10 Attention 72367 ... 48157 Out	USB	(Spec)
10690.1	10-11-2012	1500	E11a	Sat	987/10	USB	(FYM)
10711	5-11-2012	1640	M12	Mon	546 1 2440 93 42474	CW	(FN/HFD)
10711	12-11-2012	1640	M12	Mon	546 1 5220 78 72051	CW	(FN)
10711	19-11-2012	1640	M12	Mon	546 1 1153 84 45725	CW	(FN)
10711	26-11-2012	1640	M12	Mon	546 1 934 54 07444	CW	(FN)
10779	3-11-2012	0634	M89	Sat	V WITN (x3) DE GNXG (x2) (Cont'd) //8789	CW	(JPL)
10779	4-11-2012	0346	M89	Sun	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
10779	5-11-2012	1002	M89	Mon	V WITN (x3) DE GNXG (x2) (Cont'd) //8789	CW	(JPL)
10779	5-11-2012	2349	M89	Mon	V WITN (x3) DE GNXG (x2) (Cont'd) //8789	CW	(JPL)
10779	8-11-2012	0115	M89	Thu	V WITN (x3) DE GNXG (x2) (Cont'd) //8789	CW	(JPL)
10779	14-11-2012	0043	M89	Wed	V WITN (x3) DE GNXG (x2) (Cont'd) //8789	CW	(JPL)
10779	16-11-2012	0859	M89	Fri	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
10779	20-11-2012	1137	M89	Tue	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
10779	21-11-2012	0050	M89	Wed	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
10779	21-11-2012	0313	M89	Wed	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
10779	22-11-2012	0059	M89	Thu	V WITN (x3) DE GNXG (x2) (Cont'd) //8789	CW	(JPL)
10779	22-11-2012	2344	M89	Thu	GNXG in tfc HR SVC GA. NR .9 0745 RMKS 1384. 2799/2794 = COMM/0830/LZ446A. 84/2799 AR QSL ? HR WK NR 14	CW	(JPL)
10779	23-11-2012	0715	M89	Fri	V WITN (x3) DE GNXG (x2) (Cont'd) //8789 in chat	CW	(JPL)
10779	28-11-2012	2351	M89	Wed	V WITN (x3) DE GNXG (x2) (Cont'd) //8789	CW	(JPL)
10800	2-11-2012	0710	E11	Fri	633/00	USB	(HFD)
10800	6-11-2012	1045	E11	Tue	576/00	USB	(HFD/MPJ)
10800	9-11-2012	0710	E11a	Fri	636/36 Attention 31537 ... 15741 Out	USB	(Spec)
10800	13-11-2012	1045	E11	Tue	576/00	USB	(FYM)
10800	16-11-2012	0710	E11	Fri	633/00	USB	(Spec)
10800	20-11-2012	1045	E11a	Tue	576/36 00982 91637 ... 76696 41020.	USB	(MPJ)
10800	27-11-2012	1045	E11	Tue	576/00	USB	(MYK)
10840	14-11-2012	1335	X06	Wed	Mazielka. Sequence: 134265	USB	(FN)
10871.7	24-11-2012	0651	MX	Sat	Beacon "D"	CW	(AB)
10872	24-11-2012	0651	MX	Sat	Beacon "C"	CW	(AB)
10920	1-11-2012	1210	S06s	Thu	425-978/6=68734	USB	(HFD)
10920	22-11-2012	1210	S06s	Thu	425 971 6 73521 11908 36274 39889 36250 10563 971 6 00000	USB	(AB)
11000	11-11-2012	1032	M32a	Sun	Russian Navy: rcrc de riw qsu1 qwh 13086 qsx 12260 k	CW	(WP3)
11073	13-11-2012	1815	S06	Tue	5F 1818 352 352.. 1924 2	AM	(HFD)
11073	17-11-2012	0800	S06	Sat	352 (repeated) 483 ..	AM	(NR)



frequency	date	UTC	enigma	day	remarks	mode	contributor
11075	7-11-2012	0540	S06s	Wed	153, much weaker than 0530 stint	USB	(FYM)
11141.97	14-11-2012	1058	CHN	Wed	Unid Chinese diplo (tentative), idling only, no traffic	LSB 4+4 75bd	(EW)
11141.97	17-11-2012	1052	CHN	Sat	Unid Chinese. 4FG messages	4+4 75/3000 LSB	(EW)
11170	8-11-2012	0800	E17z	Thu	674-310/5=65321	USB	(HFD)
11170	15-11-2012	0800	E17z	Thu	674 203 5 88620 58069 61732 74537 57440 203 5 00000	USB	(Spec)
11170	29-11-2012	0800	E17z	Thu	674 00000	USB	(FYM)
11418	3-11-2012	0925	M32a	Sat	Russian navy "rhi99 de rmp ok qsu1 qsx 4068/4068 qwh 8752/8752 k - qyt9 qsx 4175/4175 qls k - ok qyt9 qsx 4175/4175 qwh 8454/8454 k"	CW	(WP3)
11435	7-11-2012	1830	M12	Wed	938 1 698 63 1658?	CW	(FN/HFD)
11435	21-11-2012	1830	M12	Wed	938 1 ...	CW	(FN)
11435	28-11-2012	1830	M12	Wed	938 1 7867 70 43437	CW	(FN)
11467	18-11-2012	1540	M42	Sun	Russian Intel. Msgs in blocks of 2.	FSK 200/1000	(MPJ)
11482	4-11-2012	1336	M51	Sun	ip	CW	(FMB)
11486	11-11-2012	1120	XPA2	Sun		MFSK	(FYM)
11553	10-11-2012	0900	E07a	Sat	515 000	USB	(FYM)
11553	17-11-2012	0900	E07a	Sat	515 0	USB	(HFD)
11566	5-11-2012	1620	M12	Mon	546 1 2440 93 42474	CW	(FN/HFD)
11566	12-11-2012	1620	M12	Mon	546 1 5220 78 72051	CW	(FN)
11566	19-11-2012	1620	M12	Mon	546 1 1153 84 45725	CW	(FN)
11566	26-11-2012	1620	M12	Mon	546 1 934 54 07444	CW	(FN)
11574	4-11-2012	1549	M51	Sun	ip	CW	(FMB)
11780	2-11-2012	0930	S06s	Fri	516-420/7=06123	USB	(HFD)
11780	2-11-2012	0930	S06s	Fri	516 420 7 06123 22536 88280 84116 53718 78927 34694 420 7 00000	USB	(Spec)
11780	9-11-2012	0930	S06s	Fri	516 420 7 msg null null null	USB	(Q-HOL)
11780	16-11-2012	0930	S06s	Fri	516 903 7 54146 66941 40521 88695 78126 54351 23435 903 7 00000	USB	(AB/Q-HOL/Spec)
11780	23-11-2012	0930	S06s	Fri	516 903 7	USB	(FYM)
11780	30-11-2012	0930	S06s	Fri	516 516 516 00000. 50-200 Hz + 2.4 - 2.8 kHz hums. No 3.2-3.5 kHz hums, other TX?	USB	(FYM)
11830	7-11-2012	0840	S06s	Wed	745 210 6 89969 35080 84737 47096 32207 46887 210 6 00000	USB	(Spec)
11830	14-11-2012	0840	S06s	Wed	745 210 6 89969 35080 84737 47096 32207 46887 210 6 00000	USB	(Spec)
12153	10-11-2012	0920	E07a	Sat	515 000	USB	(FYM)
12153	17-11-2012	0920	E07a	Sat	515 0	USB	(HFD)
12155	8-11-2012	1200	S06s	Thu	425 978 6	USB	(FYM)
12155	22-11-2012	1200	S06s	Thu	425 971 6 73521 11908 36274 39889 36250 10563 971 6 00000	USB	(AB)
12155	29-11-2012	1200	S06s	Thu	425 425 425 00000. Test at 1145 UTC	USB	(FYM)
12162	5-11-2012	1600	M12	Mon	546 1 2440 93 42474	CW	(FN/HFD)
12162	12-11-2012	1600	M12	Mon	546 1 5220 78 72051	CW	(FN)
12162	19-11-2012	1600	M12	Mon	546 1 1153 84 45725	CW	(FN)
12162	26-11-2012	1600	M12	Mon	546 1 934 54 07444	CW	(FN)
12188	8-11-2012	1300	M14	Thu	262 441 69 = 82806	CW	(FN)
12207	29-11-2012	0930	E06	Thu	Two messages in a (long?) transmission between 0930 - 0950z. See N&O 182	USB	(FYM)
12213	11-11-2012	1110	XPA2	Sun		MFSK	(FYM)
12260	26-11-2012	0841	M32a	Mon	RCJG: Russian Navy Ship Ivan Bubnov "qso rjt22"	CW	(WP3)
12365	7-11-2012	1000	S06s	Wed	729 861 5 80351 40974 47664 32597 34928 861 5 00000	USB	(Spec/HFD)
12365	14-11-2012	1000	S06s	Wed	729 861 5 80351 40974 47664 32597 34928 861 5 00000	USB	(Spec)
12464	2-11-2012	1435	M32a	Fri	Russian Navy. RCV wkg RMYZ	CW	(LG2)
12464	3-11-2012	0923	M32a	Sat	Russian navy "RCV de RFH77 qyt4 qls k"	CW	(WP3)
12464	3-11-2012	1207	M32a	Sat	RMYZ: Russian navy ship 12:07 A1A/CW RMYZ QTC	CW	(PPA)



frequency	date	UTC	enigma	day	remarks	mode	contributor
					649 18 31 600 649 = SML FOR RJE73 RJH45 = into 5F msg		
12464	3-11-2012	1210	M32a	Sat	Russian navy "rcv de rf70 ok qyt4 qsx 10984/12794 k"; RMYZ to RCV: rmyz 191 1 15 1600 191 = sml for rjh45 rje73 = 01121 99365 10153 41698 12909 10120 40070 50060 70100 80610 22202 00245 299// 399// 01014 = + rmyz k"	CW	(WP3)
12464	5-11-2012	----	M32	Mon	RMYZ 09515 spesiwka 5669 7599 k	CW	(WP3)
12464	5-11-2012	----	M32	Mon	RMYZ 21240 labawa 7158 3905 k	CW	(WP3)
12464	5-11-2012	----	M32	Mon	RMYZ 05522 wodopaharx 3139 8288 k	CW	(WP3)
12464	5-11-2012	----	M32	Mon	RFH70 05522 wodopaharx 3139 8288 k	CW	(WP3)
12464	5-11-2012	----	M32	Mon	RFH70 09515 spesiwka 5669 7599 k	CW	(WP3)
12464	5-11-2012	----	M32	Mon	RFH70 21240 labawa 7158 3905 k	CW	(WP3)
12464	10-11-2012	----	M32a	Sat	Russian Navy: rcv de rjt22 ok qyt9 qwh 8312 k - qyt9 qcm - qyt9 qwh 7640/7640 k - qyt9 qsx 5472 - qyt9 qsx 11143 k	CW	(WP3)
12464	10-11-2012	0745	M32a	Sat	Russian Navy: rcv de rf71 qsa?	CW	(WP3)
12464	10-11-2012	1032	M32a	Sat	Russian Navy: riw de rcrc qsa4 - ok qap - 2012-11-11 (wp3)	CW	(WP3)
12464	10-11-2012	1039	M32a	Sat	Russian Navy: rcv de rciv 732 67 11 1430 732 = for rje65 = mmmmm eimäü yrävv qskte öhChlt qskte ChhChlt qskte ChhChlt jqaiü cöäyh ....	CW	(WP3)
12464	10-11-2012	1040	M32a	Sat	Russian Navy: rit de rjq84 __ 11 1000 = for rjh74 rjd45 = 11061 99316 70785 41897 ... 22243 ...	CW	(WP3)
12464	10-11-2012	1136	M32a	Sat	Russian Navy: rit de rmma ok as2	CW	(WP3)
12464	10-11-2012	1140	M32a	Sat	Russian Navy: rit de rjq84 887 20 11 1535 887 = for rjd74 rjh45 = 11111 99315 70785 41598 ...	CW	(WP3)
12464	10-11-2012	1640	M32a	Sat	Russian Navy: rcv de rcjg 147 18 11 1600 147 = sml for rjh45 rje73 = 11121 99442 10332 41498 ... 22253 ... 11014 = + rcjg k	CW	(WP3)
12464	14-11-2012	1154	M32a	Wed	Russian Navy. RCV DE RFH70 QYT4 QSA? K. RCV DE RFH70 QYT4 QCM K. RFH70 OK QYT4 QWH12 414	CW	(AnRus)
12464	15-11-2012	1205	M32a	Thu	Russian Navy "rcv de rmyz 343 18 15 1600 343 = sml for rje73 rjh45 = 15121 99357 10226 41697 40714 10180 40190 57001 70300 85700 22232 00190 299// 399// 15014 = + rmyz k	CW	(WP3)
12464	15-11-2012	1208	M32a	Thu	Russian Navy Ship Ivan Bubnov "rcv de rcjg 181 18 15 1600 181 = sml for rjh45 rje73 = 15121 99367 10262 41998 03604 10220 40191 54000 70200 80000 22200 00200 20000 88000 15014 = + rcjg k	CW	(WP3)
12464	20-11-2012	0928	M32a	Tue	Russian Navy. rcv de rcjg 634 22 20 1325 634 = for rjt22 = 22222 48610 87183 35723 67000 12352 25059 52217 38213 18880 84196 66378 38766 46801 05267 23295 07678 03539 38279 09138 20020 = + rcjg k	CW	(WP3)
12464	20-11-2012	1124	M32a	Tue	Russian Navy. rcv de rcjg qsl 699 k (from rcv: 699 5 20 1510 699 = fm rjt22 = 48613 01500 20002 = + rcv k)	CW	(WP3)
12464	26-11-2012	0829	M32a	Mon	RCJG: Russian Navy Ship Ivan Bubnov "rcv de rcjg for rjt22 qsu1 qdw 12260 k rcv de rcjg 224 11 26 1230 224 = for rjt22 = 22222 92841 91774 58803 91023 22348 67973 45642 72599 88292 60823 26011 = + rcjg k"	CW	(WP3)
12464.2	8-11-2012	1123	M32a	Thu	Russian Navy "rit de rjq84 311 20 8 1520 311 = for rjh45 rjh74 = 08121 99282 70893 41598 33214 11170 40139 53027 70200 82200 22200 00180 20502 300// 40000 88000 80000 08017 = + rjq84 k"	CW	(WP3)
12493	12-11-2012	1420	V16	Mon		USB	(FYM)
12530	5-11-2012	1015	S11a	Mon	475/00	USB	(HFD)
12530	8-11-2012	1015	S11a	Thu	475/00	USB	(Spec)
12530	12-11-2012	1015	S11a	Mon	471/36 471/36 Vnimanie 42951 29884 64227 47786 ... 11024 40489 22341	USB	(AB)
12530	12-11-2012	1115	S11a	Mon	471/36	USB	(FYM)
12530	15-11-2012	1015	S11a	Thu	5FGs	USB	(MPJ)
12531	26-11-2012	1015	S11a	Mon	475/00	USB	(MYK)

frequency	date	UTC	enigma	day	remarks	mode	contributor
12570	2-11-2012	0940	S06s	Fri	516	USB	(FYM)
12570	2-11-2012	0940	S06s	Fri	516 420 7 06123 22536 88280 84116 53718 78927 34694 420 7 00000	USB	(Spec/HFD)
12570	9-11-2012	0940	S06s	Fri	516 420 7 msg null null null	USB	(Q-HOL)
12570	16-11-2012	0940	S06s	Fri	516 903 7 54146 66941 40521 88695 78126 54351 23435 903 7 00000	USB	(AB/Q-HOL/Spec)
12570	23-11-2012	0940	S06s	Fri	516 903 7	USB	(FYM)
12570	30-11-2012	0939	S06s	Fri	516 516 516 00000, 'started' 1 minute 'too early'.	USB	(FYM)
12635	7-11-2012	1000	S06s	Wed	729 ID=861	USB	(FYM)
12952	1-11-2012	0900	S06s	Thu	167-209/5=46062	USB	(HFD)
12952	1-11-2012	0910	S06s	Thu	167	USB	(HFD)
12952	8-11-2012	0900	S06s	Thu	YL/RR	USB	(WP3)
12952	29-11-2012	0900	S06s	Thu	167 00000	USB	(FYM)
12957	1-11-2012	0900	S06s	Thu	167 209 5 46062 68672 97478 39685 30485 209 5 00000	USB	(Spec)
12957	15-11-2012	0900	S06s	Thu	167 284 5 10597 23521 47660 92883 69901 284 5 00000	USB	(Spec)
13377	11-11-2012	1100	XPA2	Sun		MFSK	(FYM)
13428	4-11-2012	1120	M42	Sun	Russian Intel.	FSK 200/1000	(FMB)
13429	11-11-2012	1120	M42	Sun	Russian Intel. Ten messages in blocks of 26	FSK 200/1000	(MPJ)
13448	18-11-2012	1530	M42	Sun	Russian Intel. Msgs in blocks of 2.	FSK 200/1000	(MPJ)
13527	13-11-2012	1440	MX	Tue	Beacon "C"	CW	(ML4)
13527.7	5-11-2012	1450	MX	Mon	Beacon "D"	CW	(FYM)
13527.7	13-11-2012	1440	MX	Tue	Beacon "D"	CW	(ML4)
13527.7	24-11-2012	0651	MX	Sat	Beacon "D"	CW	(AB)
13528	5-11-2012	1450	MX	Mon	Beacon "C"	CW	(FYM)
13528.1	24-11-2012	0651	MX	Sat	Beacon "A"	CW	(AB)
13565	1-11-2012	0910	S06s	Thu	167 209 5 46062 68672 97478 39685 30485 209 5 00000	USB	(Spec/Q-HOL)
13565	8-11-2012	0910	S06s	Thu	YL/RR	USB	(EW)
13565	15-11-2012	0910	S06s	Thu	167 284 5 10597 23521 47660 92883 69901 284 5 00000	USB	(Spec)
13565	15-11-2012	0930	S06s	Thu	167 284 5 10597 23521 47660 92883 69901 284 5 00000	USB	(EW)
13565	29-11-2012	0909	S06s	Thu	167 00000	USB	(FYM)
13875	22-10-2012	2015	S28		Buzzer on 3rd harmonic	USB	(AnRus)
13931.97	17-11-2012	1112	CHN	Sat	Unid Chinese. 4FG messages	4+4 75/3000 LSB	(EW)
14067	25-10-2012	0717	M32		Russian Mil. XXX WEGI 42200 WENDETTA 2050 6770 K CW		(IARUMS)
14123	2-11-2012	1510	V16	Fri	1st transmission	USB	(Token/FYM)
14123	2-11-2012	1516	V16	Fri	2nd transmission	USB	(Token/FYM)
14123	2-11-2012	1519	V16	Fri	3rd transmission	USB	(Token)
14280	7-11-2012	1010	S06s	Wed	Note the last group! 729 861 5 5 80351 80351 40974 40974 47664 47664 32597 32597 34928 34828 861 861 5 5 00000	USB	(FYM)
14280	7-11-2012	1010	S06s	Wed	729 861 5 80351 40974 47664 32597 34928 861 5 00000	USB	(Spec/HFD)
14280	14-11-2012	1010	S06s	Wed	729 861 5 80351 40974 47664 32597 34928 861 5 00000	USB	(Spec)
14280	21-11-2012	1010	S06s	Wed	729 480 5.	AM	(FYM)
14410	2-11-2012	1110	E11a	Fri	952/31=96513	USB	(HFD/Q-HOL)
14410	5-11-2012	1110	E11a	Mon	954/31 Attention 60666 ... 01592 Out	USB	(Spec/HFD/FYM)
14410	6-11-2012	1110	M12	Tue	954/31 60666 74699 ... 98222 01792	CW	(MPJ)
14410	9-11-2012	1110	E11a	Fri	956/34 89295 36146 ... Reception QRM'd by RDL on 14411	USB	(MPJ)
14410	12-11-2012	1110	E11a	Mon	954/38 Attention 68755 64966 50441 54900 83108 ... 58773 65986 38845	USB	(AB)
14410	16-11-2012	1110	E11a	Fri	952/?? 10288 72227 ... 69603 50570 Out.	USB	(MPJ/Q-HOL)
14410	16-11-2012	1118	E11a	Fri	ip, YL, EE, "msg OUT"	USB	(Q-HOL)

frequency	date	UTC	enigma	day	remarks	mode	contributor
14410	19-11-2012	1110	E11a	Mon	950/40 06523 21170 ... 88439 66282...	USB	(MPJ/AMAus)
14410	23-11-2012	1210	E11a	Fri	954/31 45243 2nd group, 1st group in QSB	USB	(FYM)
14410	26-11-2012	1110	E11a	Mon	958/40 65770 91802 ... 38651 74816.	USB	(MPJ)
14411	9-11-2012	1116	M32	Fri	Russian Military Strategic Bcast "RDL RDL 84101 21055 84101 21055 84101 21055 K"	CW	(MPJ)
14411	19-11-2012	1046	M32	Mon	Russian Mil. RDL RDL RDL 05933 51915 05933 51915 05933 51915 K. Followed by msgs in T-600.	CW	(MPJ)
14450	27-11-2012	1214	X06	Tue	Mazielka	USB	(AnEUR)
14450	27-11-2012	1310	X06c	Tue	Mazielka. Very strong, was audible without antenna (!)	AM	(FYM)
14543	4-11-2012	0920	M42	Sun	Russian Intel.	FSK 200/1000	(FMB)
14556	2-11-2012	1121	M32a	Fri	RIW: Navy Moscow ip, "83366 39659 28t36 45642 48327 t 2t34 k...bkbk riw"	CW	(Q-HOL)
14828	9-11-2012	1440	XPA	Fri		MFSK	(FYM)
14851.7	14-11-2012	1047	PAK	Wed	ISI, messages sent in five letter groups. all messages sent twice	PACTOR 2 FEC 100/200	(EW)
15632	1-11-2012	1155	E11	Thu	718/00	USB	(HFD)
15632	7-11-2012	1155	E11a	Wed	710/30 Attention 93405 ... 17520 Out	USB	(Spec)
15632	8-11-2012	1155	E11a	Thu	710/30 Attention 93405 ... 17520 Out	USB	(Spec/FYM)
15632	12-11-2012	1540	E11	Mon	228/00 Out	USB	(MPJ)
15632	14-11-2012	1155	E11	Wed	718/00	USB	(FYM)
15632	15-11-2012	1155	E11	Thu	718/00	USB	(Spec)
15632	18-11-2012	1540	E11	Sun	228/22	USB	(HFD)
15632	21-11-2012	1155	E11	Wed	718/00 Out	USB	(MPJ/FYM)
15632	28-11-2012	1155	E11	Wed	718/00	USB	(MPJ)
15632	29-11-2012	1115	E11	Thu	718/00	USB	(MPJ)
15721	14-11-2012	0400	S06	Wed	480 480 480 00000 followed by 480 736 58 63574 91176 64734 68686 86381 75101 97773 ... 96222 59273 21951 736 58 00000	AM	(Avare)
15871	4-11-2012	1110	M42	Sun	Russian Intel.	FSK 200/1000	(FMB)
15871	17-11-2012	1110	M42	Sat	Russian Intel.	FSK 200/100	(MPJ)
15963	7-11-2012	1247	M42	Wed	Russian Intel.	FSK 200/1000	(MCO)
15963	21-11-2012	1240	M42	Wed	Russian Intel. 10 messages in blocks of 2.	FSK 200/1000	(MPJ)
16006.5	22-11-2012	0953	DPRK	Thu	MFA Pyongyang North Korea, encrypted traffic	DPRK-ARQ 600/600	(EW)
16067	15-11-2012	0930	S06	Thu	842 613 42 67048 78234 65131 04458 25426 ...	AM	(EW)
16112	8-11-2012	0745	E11	Thu	335/00	USB	(Spec)
16112	13-11-2012	0745	E11a	Tue	337/36 Attention 36741 ... 44441 Out	USB	(Spec)
16112	15-11-2012	0745	E11a	Thu	337/36 Attention 36741 ... 44441 Out	USB	(Spec)
16115	26-11-2012	0950	X06	Mon	Mazielka	USB	(MYK)
16155	4-11-2012	0910	M42	Sun	Russian Intel.	FSK 200/1000	(FMB)
16190	21-11-2012	0940	X06c	Wed	Mazielka. Sequence: 123456	USB	(MG)
16190	21-11-2012	0951	X06c	Wed	Mazielka. Sequence: 123456	USB	(MG)
16200	1-11-2012	0600	E06	Thu	507 369 124 43214 ... 88496 369 124 00000	USB	(Spec)
16200	2-11-2012	0600	E06	Fri	507 369 124 43214 28127 40115 .... 66393 28656 88496 369 124 00000	AM	(Avare/HFD/Spec)
16249	10-11-2012	1340	M42	Sat	Russian Intel. Repeated sequence "00000+++++++162)5761"	FSK 200/500	(IW/MPJ/SP1)
16249	24-11-2012	1320	M42	Sat	Russian Intel. 00000+++++++162)5761	FSK 200/500	(SW2)
16331.7	13-11-2012	1611	MX	Tue	Beacon "D" Sevastopol	CW	(SW2)
16331.7	21-11-2012	1528	MX	Wed	Beacon "D" Sevastopol	CW	(SW2)
16331.7	24-11-2012	0651	MX	Sat	Beacon "D"	CW	(AB)
16331.9	13-11-2012	1625	MX	Tue	Beacon "S" Sevoromorsk	CW	(SW2)
16332	13-11-2012	1612	MX	Tue	Beacon "C" Moscow	CW	(SW2)
16332	21-11-2012	1527	MX	Wed	Beacon "C" Moscow	CW	(SW2)
16332	24-11-2012	0651	MX	Sat	Beacon "C"	CW	(AB)
16332.3	1-11-2012	0117	MX	Thu	Russian -K- beacon	CW	(vambo)
17429	4-11-2012	1100	M42	Sun	Russian Intel.	FSK 200/1000	(FMB)

frequency	date	UTC	enigma	day	remarks	mode	contributor
17429	17-11-2012	1100	M42	Sat	Russian Intel. In progress. Traffic in blocks of 27.	FSK 200/1000	(MPJ)
17441	2-11-2012	0920	E07a	Fri	Last pt of msg: 1579 0929 000 000	USB	(FYM)
17441	30-11-2012	0840	E07	Fri	874 1 728 69 13685 10470 71509 07746 ... 54689 000 000	AM	(EW)
17463	9-11-2012	1400	XPA	Fri		MFSK	(FYM)
17479	4-11-2012	1030	M12	Sun	941 941 941 1, 0950/1010/1030z schedule?	CW	(FYM)
18107	17-10-2012	0811	M32		Russian Mil. XXX XXX followed by F1B Revs	CW	(IARUMS)
18107	22-10-2012	0828	M32		Russian Mil. XXX RGT77 43108 00565 GWERILXaZ 8380 2371 UWAROWIT 2205 6744 k	CW	(IARUMS)
18107	22-10-2012	0838	M32		Russian Mil. UUU XXX W6BY 85319 10769 VERDNaK 3713 8183 KERGELEN 0709 2225 k	CW	(IARUMS)
18107	30-10-2012	1357	M32		Russian Mil. XXX RDL 32972 91642 SALXNA	CW	(IARUMS)
18200	1-11-2012	0700	E06	Thu	507 369 124 43214 ... 88496 369 124 00000	USB	(Spec)
18200	2-11-2012	0700	E06	Fri	507	AM	(HFD)
18200	2-11-2012	0700	E06	Fri	507 369 124 43214 ... 88496 369 124 00000	USB	(Spec)
18351	10-11-2012	1320	M42	Sat	Russian Intel. Repeated sequence "00000+++++++162)5761"	FSK 200/500	(IW/MPJ/SP1)
18351	24-11-2012	1310	M42	Sat	Russian Intel. 00000+++++++162)5761	FSK 200/500	(SW2)
18468	4-11-2012	0900	M42	Sun	Russian Intel.	FSK 200/1000	(FMB)
18741	30-11-2012	0820	E07	Fri	874 1 728 69 13685 10470 71509 07746 ... 54689 000 000	AM	(EW)
19305	6-11-2012	1346	M42	Tue	Russian diplo. Msg on link 70130. Header: 11100 70103 84715 06082 04019	Baudot 75bd/500 & CW	(MCO)
19345	20-11-2012	1246	EGY	Tue	"99907" MFA Cairo wkg "44405" Embassy Islamabad	Codan 9001/3012 16 tone	(MCO)
19418.5	22-11-2012	0919	DPRK	Thu	MFA Pyongyang North Korea, encrypted traffic	DPRK-ARQ 600/600	(EW)
19875	9-11-2012	0900	S06	Fri	842 ...	USB	(EW)
19875	15-11-2012	0832	S06	Thu	in progress 842 ...	USB	(EW)
19889.7	7-11-2012	1003	PAK	Wed	Pakistan ISI agency Islamabad? sending messages in five letter groups. Each message repeats	Pactor-2 FEC 100/200	(EW)
20047.7	24-11-2012	0651	MX	Sat	Beacon "D"	CW	(AB)
20047.7	30-11-2012	1014	MX	Fri	Beacon "D"	CW	(SW2)
20047.9	30-11-2012	1016	MX	Fri	Beacon "S"	CW	(SW2)
20048	30-11-2012	1020	MX	Fri	Beacon "C"	CW	(SW2)
20177	22-11-2012	1525	EGY	Thu	"33308" Egyptian Embassy Conakry calling "99907" Cairo	80bd Codan Chirp	(MCO)
20373.8	10-11-2012	1400	M42	Sat	Russian Intel. "576 1 00000 +++++ +++++ 162"	FSK 200bd/500	(FYM)
20374	10-11-2012	1300	M42	Sat	Russian Intel. Repeated sequence "00000+++++++162)5761"	FSK 200/500	(IW/MPJ/SP1)
20374	24-11-2012	1300	M42	Sat	Russian Intel. 00000+++++++162)5761	FSK 200/500	(SW2)
20518	11-11-2012	0445	EGY	Sun	MFA Cairo, messages to Kuala Lumpur Malaysia.	Codan 16 USB	(EW)
20519.7	11-11-2012	0430	EGY	Sun	MFA Cairo, messages to Kuala Lumpur Malaysia	SITOR-A 100/170	(EW)
20841	30-11-2012	0800	E07	Fri	874 1 728 69 13685 10470 71509 07746 ... 54689 000 000	AM	(EW)
21144.97	24-11-2012	2052	CHN	Sat	Unid Chinese station "2122 2324 2526 2728 2920 3132 3334 3536 3738 3930"	LSB 4+4 75bd	(EW)
21151.7	19-11-2012	----	EGY	Mon	Egyptian MFA, Cairo calling "KKVA" (Embassy Lagos)	SITOR-A 100/170	(MCO)
21438	7-10-2012	1331	M32		Russian Mil. XXX RJV 94010 GAGA 1557 6324 K	CW	(IARUMS)
21438	12-10-2012	0800	M32a		Russian Navy. RCV to RIP90, RBE86, RFH71	CW	(IARUMS)
21438	24-10-2012	0827	M32a		Russian Navy. RIP90 DE RCV QTC 309 44 1 1521 309	CW	(IARUMS)
21438	24-10-2012	0827	M32a		Russian Navy. RCV "NAWIP 033 1990 KARTA" etc).	CW	(IARUMS)
22864	13-11-2012	1015	M32a	Tue	Russian Mil. "rdl rdl 8933t 2t2t4 8933t 2t2t4 8933t 2t2t4k"	CW	(SW2)
23133.5	21-11-2012	0617	DPRK	Wed	MFA Pyongyang North Korea, encrypted traffic	DPRK-ARQ 600/600	(EW)

## CONTRIBUTORS

AB	Ary Boender, Netherlands	KC2TTK	KC2TTK, NY, USA
AB-EST	Ary Boender via remote rx Estonia	LG2	Les G, UK
AB-HK	Ary Boender via remote rx Hong Kong	MCO	Mike Chace-Ortiz, PA, USA
AMAus	Adrew Mills, Australia	MG	Manolis, Greece
AnEur	Anonymous Europe	ML4	Michel Lacroix, France
AnRus	Anonymous, Russia	MOR	Mauro, North Italy
ASh	Alex Shmel, Russia	MPJ	Jim, SW England
Avare	Avare	MYK	Mark, Yorkshire, UK
BCI	Bruno Casula, Italy	NC	Nick, WA, USA
CS	Chris Smolinski, USA	NR	Nick Rumble, NC, USA
Dan	Daniel, Argentina	Pat	Pat, France
Daunt	Dauntless, UK	PPA	Peter Poelstra, Netherlands
EW	Eddy Waters, Australia	Q-HK	Chief via remote rx in Hong Kong
FMB	FMB, Germany	Q-HOL	Chief via remote rx in The Netherlands
FN	Fritz Nusser, Switzerland	Q-USA	Chief via remote rx in USA
FYM	Remco, The Netherlands	SP1	Sylvain, France
Gwr	Gwraspe (Priyom.org)	Spec	The Spectre 3000, UK
HFD	Hans-Friedrich Dumrese, Germany	SSh	Sasha Shmel, Russia
HS2	Hans Snekvik, W. Europe	SW2	Sam Wright, UK
IARUMS	IARU Monitoring Service	Token	TI, CA, USA
IW	Ian Wraith, UK	TR2	Tony Roper, UK
JPL	JPL, Ontario, Canada	UFD	UFD via Radioscanner.ru
JPL-AUS	JPL via DX Tuner, Logan, Australia	Vambo	Vambo, CO, USA
JPL-RUS	JPL via remote rx Russia	VK4TAW	VK4TAW, Australia
JU	Jay Updike, W. Europe		

---

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

Google Earth images Copyright © Google

Portions of this newsletter may be used in electronic or printed hobby bulletins without prior approval so long as "Numbers & Oddities" is credited as the source. This newsletter may NOT be utilized, partly or wholly, in any other COMMERCIAL media format without the written permission of the Editor. Any breach of this may result in action under international copyright legislation.

### 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.