

670	27364	92836	89428	61268	74982	36498	32764	81276	81276
4986	40932	70987	32123	49817	26346	81287	65491	87364	81276
721	75654	55656	12737	72727	72727	91918	63473	67867	76723
723	87629	37677	32612	53498	71296	28756	18276	98716	87629
7269	76329	74698	76857	98670	27601	56701	57601	73648	15672
591	87364	87265	96710	27630	12673	84769	28743	98127	59127
58	63298	75698	27465	87326	49876	28376	81273	98615	62736
667	87432	74328	78674	29867	32867	67867	86786	43286	43286
667	68768	68763	34234	34238	68768	62342	48273	48768	23456
936	98432	32432	86743	43286	43286	43286	43286	43286	43286
743	86743	86743	39867	32867	86743	43286	43286	43243	86743
741	86743	86743	86743	86743	86743	86743	86743	86743	43567
543	98798	98754	98754	98754	98754	29867	67543	67986	86743
976	87698	69876	87698	69876	87612	12341	34867	86798	63276
867	43298	65656	56756	56123	32143	14321	32143	14321	32143
71	32787	58765	76587	58765	76587	58765	76587	58756	76587
75476	76543	58765	36543	58765	36543	58765	36543	58765	36543

# Numbers & Oddities

## a.k.a. The Spooks Newsletter

*Edition # 181, October 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>

Remco forwarded the link to the HFDXer Soundcloud pages. Check them out: [www.soundcloud.com/hfdxer](http://www.soundcloud.com/hfdxer) From Scarlet Fido we received a very nice S30 report and Eddy checks in with a great report about a 4+4 QPSK network. We also received a large amount of logs from a lot of people, like Q, Fritz, JPL, FMB, and Hans-Friedrich. Transcripts were submitted by amongst others JPL, Avare, Spectre and Scan Sweden. Also thanks to Jan Machalski for his translations. Check the contributors list at the end for all the contributors. THANKS for sharing your logs and info, people!! It is greatly appreciated.

## VOICE STATIONS



### E06

3704 kHz, 10-10, 2020 UTC: 154 154 154 00000

6907 kHz, 13-10, 1220 UTC: 154 154 154 00000

5189 kHz, 04-10 & 18-10, 2030 UTC:

891 490 15

63728 01627 83491 63819 51628 79103 61035 28193 72104

38102

81036 20192 46183 01826 19201

490 15 00000

5197 kHz, 05-10 & 19-10, 2130 UTC:

634 617 15

72391 01826 28193 37182 51025 91721 36271 92018

42710 72819

01936 57183 82017 92016 27102

617 15 00000



### E07

10243/9243/7943 kHz, 03-10, 1900/1920/1940 UTC:

229 1 230 63

18308 76197 59813 73841 96163 29885 73338 31981 58658 80330

84464 33828 34568 06218 55842 00116 60889 84101 23514 06905

72329 33378 59574 33083 76271 22966 93175 21416 47410 22701

04613 35450 84274 52465 09945 08352 84680 54092 48680 21054

21169 44007 69175 80912 20988 56040 26899 80827 30854 57161

75848 84917 47239 88686 63136 66731 35565 54561 59538 17226

83003 47212 27801

000 000

11454/9423/8123 kHz, 07-10, 1700/1720/1740 UTC:

441 1 478 93

45095 65158 15649 49696 52416 07157 84877 22162 69514 87950

97458 65914 85253 89603 36657 48849 79253 67673 08655 53278

61663 79254 35817 17531 32816 27606 78058 96458 47679 26104

09137 09096 12681 16103 33026 62623 41243 94813 02713 69355

12980 02971 31222 82164 08594 36312 08355 39302 40996 73913

11101 26858 20618 70171 63350 85456 78880 93942 56082 53818

14419 50111 58196 81844 17554 36073 57294 29565 05415 99401

24335 73729 39234 90212 35460 00309 54385 07872 75345 29141

88835 03650 46725 09570 62508 02564 28171 38964 27059 33536

31702 18989 40855

000 000

5164 kHz, 03-10, 2001 UTC: 815 815 815 000

11454 kHz, 14-10, 1700 UTC: 441 441 441 000

10243 kHz, 22-10, 1900 UTC: 229 229 229 000

10243 kHz, 24-10, 1900 UTC: 229 229 229 000

9243 kHz, 24-10, 1900 UTC: 229 229 229 000

11454 kHz, 28-10, 1700 UTC: 441 441 441 000

9423 kHz, 28-10, 1720 UTC: 441 441 441 000

9243 kHz, 29-10, 1920 UTC: 229 229 229 000

11454/9423/8123 kHz, 21-10, 1700/1720/1740 UTC:

441 475 69

89505 43966 13299 80571 96133 57051 28337 54321 44931 52532  
19669 21372 50535 90345 66237 63768 77273 50388 09475 73301  
95816 57478 43183 60061 85040 08321 58549 40047 89689 21192  
53912 18741 68708 50756 44966 27463 25008 91504 14427 74984  
71436 34803 12918 67217 01452 05191 33331 82023 23492 51422  
97155 96430 43031 55701 51999 45030 63702 15076 68063 16728  
82488 02398 71746 34458 46981 58894 55472 01076 33095  
000 000



## E11/ E11a / E11c

15915 kHz, 01-10, 1540 UTC, E11a:

220/37 Attention

14882 66441 71760 72231 32247 19714 75540 86393 35775 63653  
82939 42873 04359 90344 76431 18982 19759 38562 01504 74152  
58046 86873 23774 30325 32894 32535 97866 64233 82951 40829  
Attention, rpt msg, out

6869 kHz, 12-10, 2000 UTC, E11a:

573/31 Attention

21925 18865 88878 55665 58652 14641 53976 36742 24639 18460  
94118 47381 15279 85009 53934 98368 62115 20936 74602 12418  
15200 73653 87083 71089 69050 84599 56403 84465 40241 21246  
96571  
Attention, rpt msg, out, windows xp sound

5194 kHz, 26-10, 1710 UTC, E11a:

959/21 Attention

49695 75834 08538 10028 00071 04314 00057 87293 11842 52923  
49313 85222 27173 57547 18531 46750 62373 77505 73468 29215  
21350  
Attention, rpt msg, out

5194 kHz, 19-10, 1710 UTC, E11a:

957/20 Attention

46579 82544 85739 68810 17151 01129 52945 24418 68652 57142  
51213 93853 09721 37308 28749 87495 54823 67302 04479 58471  
Attention, rpt msg, out

5194 kHz, 26-10, 1710 UTC, E11a:

959/21 Attention

49695 75834 08538 10028 00071 04314 00057 87293 11842 52923  
49313 85222 27173 57547 18531 46750 62373 77505 73468 29215  
21350  
Attention, rpt msg, out

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10221 kHz, 02-10, 0710 UTC: 633/00

14575 kHz, 02-10, 0745 UTC: 335/00

10800 kHz, 02-10, 0645 UTC: 517/00

13424 kHz, 02-10, 1045 UTC: 576/00

7449 kHz, 03-10, 1045 UTC: 469/00

15915 kHz, 03-10, 1155 UTC: 718/00

9399 kHz, 03-10, 0900 UTC: 534/00

15915 kHz, 07-10, 1541 UTC: 220/30

6304 kHz, 08-10, 0450 UTC: 416/00

9371 kHz, 11-10, 1730 UTC: 416/00

15915 kHz, 15-10, 1540 UTC: 228/00

7449 kHz, 16-10, 1045 UTC: 469/00

15195 kHz, 17-10, 1155 UTC: 718/00

6869 kHz, 19-10, 2000 UTC: 576/00

15915 kHz, 21-10, 1540 UTC: 228/00

7863 kHz, 23-10, 1924 UTC: 758/00

9399 kHz, 24-10, 0900 UTC: 534/00

14915 kHz, 24-10, 1155 UTC: 718/00

10221 kHz, 26-10, 0710 UTC: 633/00

6869 kHz, 26-10, 2000 UTC: 576/00

15915 kHz, 28-10, 1540 UTC: 228/00

15915 kHz, 29-10, 1540 UTC: 228/00

13424 kHz, 30-10, 1045 UTC: 576/00

7850 kHz, 31-10, 0315 UTC: 253/00

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7863 kHz, 02-10, 2000 UTC: 757/0201/00

7863 kHz, 04-10, 1935 UTC: 758/0000/00

7863 kHz, 09-10, 2000 UTC: 757/2200/00

9399 kHz, 08-10, 0900 UTC, E11a:

535/36 Attention

07591 41213 70272 51845 74056 09544 93636 59565 69118 09244  
03039 37322 43010 52031 51822 47532 27250 89107 63036 45021  
79152 50324 87717 82561 37983 55623 33912 37845 66361 58909  
78209 64111 17538 72193 99234 49312  
Attention, rpt msg, out

6814 kHz, 08-10, 0820 UTC, E11a:

439/31 Attention

05918 37897 55621 55506 10973 80250 03788 63147 81117 36851  
23028 80596 37513 04521 12442 32623 61489 12357 23424 66303  
86554 99350 31957 53617 36121 49976 37999 83133 70352 32765  
35849

Attention, rpt msg, out

10800 kHz, 18-10, 0645 UTC, E11a:

514/32 Attention

05364 69057 42538 22076 89705 75463 79563 31679 99837 91818  
55099 31363 32127 10640 45359 47167 13982 42993 43442 09659  
82802 51036 93351 05363 92683 88912 05561 69088 65433 39900  
27885 34559

Attention, rpt msg, out

9371 kHz, 18-10, 1730 UTC, E11a:

411/31 Attention

67392 60681 38197 30142 10304 07037 19622 87038 36036 00599  
48526 69213 23750 52820 78764 46647 47686 30184 98586 41357  
18804 81552 48690 21467 52266 12451 38138 85991 82461 07733  
00086

Attention, rpt msg, out

13375 kHz, 19-10, 1110 UTC, E11a:

954/31 Attention

25823 58525 49789 59786 24397 05694 48157 19209 14914 49699  
02393 83178 91689 67657 43210 10542 55871 66096 27326 96732  
47797 99312 86286 10597 88962 93633 69489 63483 36805 34011  
32926

Attention, rpt msg, out



**E25**

9450 kHz, 07-10, 1315 UTC: YL/EE, 785 8 Message



**G06**

4639 kHz, 01-10, 1706 UTC: 10-counts  
5378 kHz, 01-10, 1800 UTC: 154 154 154 00000  
5442 kHz, 12-10, 1930 UTC: 947 064 15  
5442 kHz, 26-10, 1930 UTC: 61947 51048 41846 81035 28194 39104 51738 93516 42910 38291  
53718 10471 63821 73016 38193  
064 15 00000  
5940 kHz, 11-10, 1830 UTC: 579 015 15  
5940 kHz, 25-10, 1830 UTC: 65438 01324 67197 94631 63723 98012 56489 03425 75401 37289  
85935 82961 83970 37481 27978  
015 15 00000



**G11**

5815 kHz, 02-10, 1755 UTC: 270/00	6433 kHz, 14-10, 2000 UTC: 265/00
5815 kHz, 06-10, 1325 UTC: 599/00	5815 kHz, 19-10, 1325 UTC: 299/00
5815 kHz, 07-10, 1755 UTC: 270/00	6433 kHz, 19-10, 2000 UTC: 265/34
6433 kHz, 07-10, 2000 UTC: 265/00	5815 kHz, 21-10, 1755 UTC: 677/38
5815 kHz, 09-10, 1755 UTC: 270/00	6433 kHz, 21-10, 2000 UTC: 265/30
5815 kHz, 10-10, 1755 UTC: 270/00	6433 kHz, 26-10, 2000 UTC: 265/00
5815 kHz, 12-10, 1325 UTC: 299/00	5815 kHz, 28-10, 1755 UTC: 520/00
6433 kHz, 12-10, 2000 UTC: 265/00	6433 kHz, 28-10, 2000 UTC: 265/00
5815 kHz, 14-10, 1755 UTC: 270/00	

5815 kHz, 16-10, 1755 UTC: 277/38 Achtung  
 96493 38506 06917 87199 29153 03515 47725 50261 44846 58522  
 44013 35754 85412 00184 58436 13926 74888 87555 66738 48757  
 24823 00909 58027 50413 95232 13403 79509 07579 17287 93027  
 20527 66825 62449 11611 01354 75305 77959 77390  
 Ende

6433 kHz, 19-10, 2000 UTC: 269/34 Achtung  
 31093 68379 27768 49091 42806 06509 06506 52519 06694 11063  
 50977 44439 19426 26676 05606 97417 70453 60913 81881 10720  
 67206 74487 86276 39302 85017 07100 81104 17791 14937 67700  
 67016 66714 25399 47843  
 Ende



## S06

5890 kHz, 02-10, 1800 UTC: S06 286 286 286 00000  
 11635 kHz, 02-10, 0800 UTC: S06s 352 981 6 21767 53672 11834 81022 36904 41412 981 6 00000  
 10420 kHz, 02-10, 0810 UTC: S06s 352 981 6 21767 53672 11834 81022 36904 41412 981 6 00000  
 6410 kHz, 02-10, 1000 UTC: S06s 893 570 6 05899 50387 45847 23013 89858 52343 570 6 00000  
 7340 kHz, 02-10, 1010 UTC: S06s 893 570 6 05899 50387 45847 23013 89858 52343 570 6 00000  
 7605 kHz, 03-10, 0820 UTC: S06s 471 830 5 96111 10544 98003 68909 15279 830 5 00000  
 9255 kHz, 03-10, 0830 UTC: S06s 471 830 5 96111 10544 98003 68909 15279 830 5 00000  
 10835 kHz, 03-10, 0530 UTC: S06s 153 987 6 09394 76911 75155 92918 97607 58601 987 6 00000  
 12170 kHz, 03-10, 0540 UTC: S06s 153 987 6 09394 76911 75155 92918 97607 58601 987 6 00000  
 7335 kHz, 03-10, 0730 UTC: S06s 745 293 6 05899 52343 70628 42432 56075 56281 293 6 00000  
 11830 kHz, 03-10, 0740 UTC: S06s 745 293 6 05899 52343 70628 42432 56075 56281 293 6 00000  
 9255 kHz, 03-10, 0830 UTC: S06s 471 830 830 5 5 96111 10544 98003 68909 45279 830 830 5 5 00000  
 9480 kHz, 03-10, 0840 UTC: S06s 328 970 970 5 5 45847 23521 47660 92883 69901 970 970 5 5 00000  
 11040 kHz, 03-10, 0850 UTC: S06s 328 970 970 5 5 45847 23521 47660 92883 69901 970 970 5 5 00000  
 5127 kHz, 04-10, 1905 UTC: S06 349 349 349 00000  
 5317 kHz, 06-10, 2000 UTC: S06 416 416 416 00000  
 6410 kHz, 09-10, 1000 UTC: S06s 893 570 6 05899 50387 45847 23013 89858 52343 570 6 00000  
 7340 kHz, 09-10, 1010 UTC: S06s 893 570 6 05899 50387 45847 23013 89858 52343 570 6 00000  
 9145 kHz, 08-10, 1200 UTC: S06s 831 572 6 52401 63919 92699 14600 74248 48754 572 6 00000  
 11460 kHz, 08-10, 1210 UTC: S06s 831 572 6 52401 63919 92699 14600 74248 48754 572 6 00000  
 5127 kHz, 08-10, 1905 UTC: S06 349 349 349 00000  
 5890 kHz, 10-10, 1800 UTC: S06 286 286 286 00000  
 5127 kHz, 11-10, 1905 UTC: S06 349 349 349 00000  
 8162 kHz, 13-10, 1600 UTC: S06 134 134 134 00000  
 15721 kHz, 15-10, 0400 UTC: S06 480 795 60  
 16192 51030 31611 34925 20971 60593 40868 53957 07501 88293  
 45539 62750 51608 74273 26390 40404 00123 84400 46321 44262  
 29004 19632 90959 81639 45700 46580 15214 11329 40436 72697  
 12968 60830 16118 14536 52108 70241 51530 32504 42076 98746  
 77530 30567 26116 54639 70913 44331 15429 34817 95637 65934  
 07402 84689 46109 79199 55110 14432 72199 03475 80274 32522  
 795 60 00000  
 9145 kHz, 15-10, 1200 UTC: S06s 831 459 6 36453 78293 89216 56472 19982 08760 459 6 00000  
 11460 kHz, 15-10, 1210 UTC: S06s 831 459 6 36453 78293 89216 56472 19982 08760 459 6 00000  
 5127 kHz, 15-10, 1905 UTC: S06 349 349 349 00000  
 7340 kHz, 16-10, 1010 UTC: S06s 893 241 5 67534 67698 08964 31254 67562 241 5 00000  
 12140 kHz, 19-10, 0930 UTC: S06s 516 493 7 60386 03009 81413 94073 83531 94063 63156 493 7 00000  
 13515 kHz, 19-10, 0940 UTC: S06s 516 493 7 60386 03009 81413 94073 83531 94063 63156 493 7 00000  
 13365 kHz, 24-10, 1000 UTC: S06s 729 436 5 86578 42194 10580 88266 45334 436 5 00000



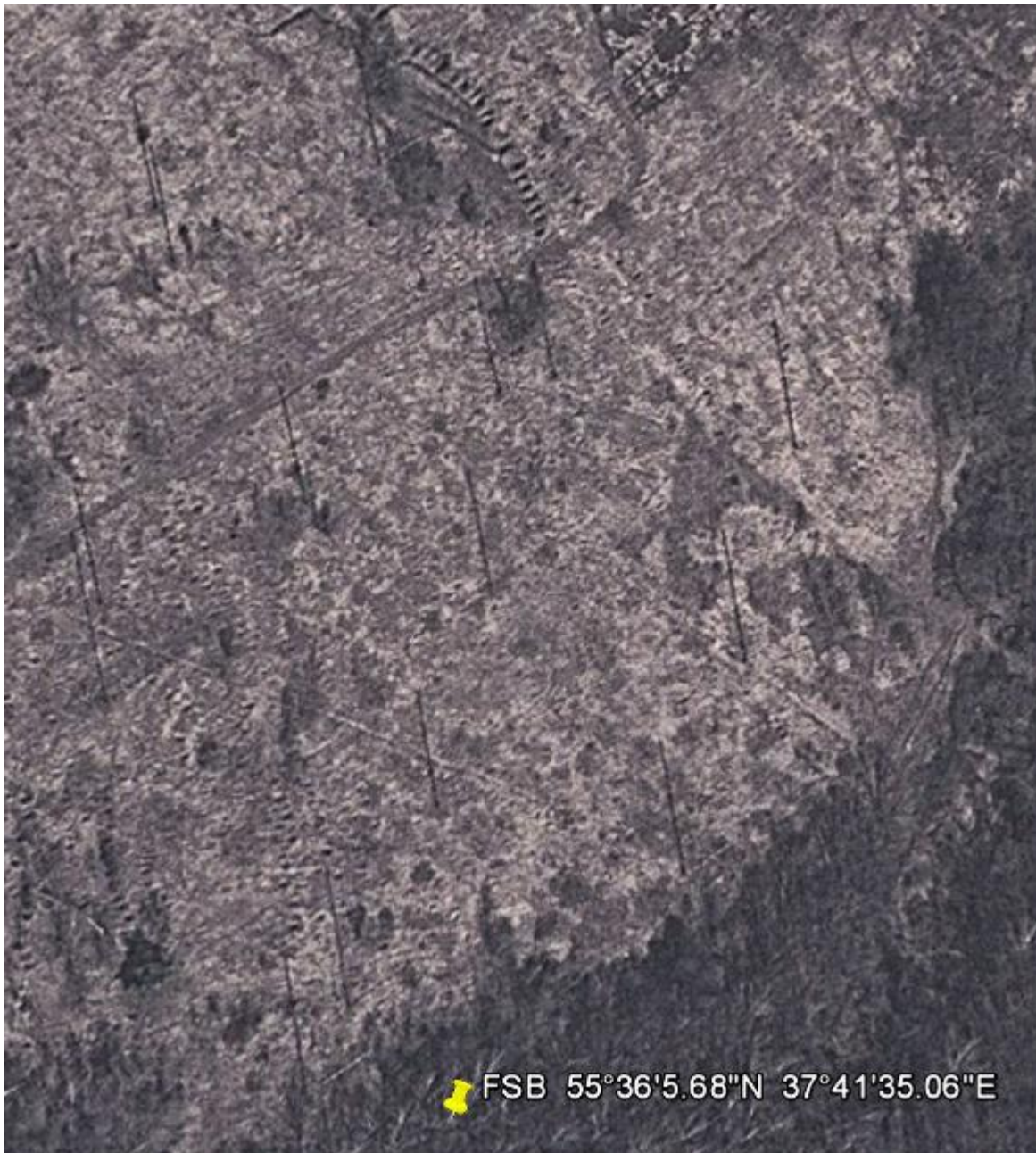
14505 kHz, 24-10, 1010 UTC:	S06s	729 436 5 86578 42194 10580 88266 45334 436 5 00000
6340 kHz, 26-10, 0600 UTC:	S06s	934 578 6 49046 84446 88424 13459 94258 54503 578 6 00000
5470 kHz, 26-10, 0610 UTC:	S06s	934 578 6 49046 84446 88424 13459 94258 54503 578 6 00000
6340 kHz, 26-10, 0600 UTC:	S06s	934 578 6 49046 84446 88424 13459 94258 54503 578 6 00000
5470 kHz, 26-10, 0610 UTC:	S06s	934 578 6 49046 84446 88424 13459 94258 54503 578 6 00000
7795 kHz, 26-10, 0700 UTC:	S06s	196 870 5 30788 31452 49046 84446 88424 870 5 00000
8695 kHz, 26-10, 0710 UTC:	S06s	196 870 5 30788 31452 49046 84446 88424 870 5 00000
7612 kHz, 27-10, 1605 UTC:	S06	134 134 134 00000
4958 kHz, 27-10, 1935 UTC:	S06	143 143 143 00000

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When I was playing around with Google Earth I found a twin site near Moscow. Allegedly belonging to the FSB and the other to the FSB and Spetsviaz, the Special Communications and Information Service of Russia (Служба специальной связи и информации, Спецсвязь России) which is a cryptologic intelligence agency of the FSO (Federalnaya Sluzhba Okhrany - Федеральная служба охраны - or in English: the Federal Protective Service.



**Alleged Spetsviaz/FSB base. Co-ordinates: 55°36'5.68"N 37°41'35.06"E**  
**Antenna type: BS-2 SW**



Alleged FSB base. Co-ordinates: 55°35'31.70"N 37°41'24.71"E



### **S11a**

16112 kHz, 01-10, 1015 UTC: 475/00  
7317 kHz, 02-10, 0915 UTC: 484/00  
5815 kHz, 06-10, 1020 UTC: 331/00  
9960 kHz, 09-10, 1020 UTC: 426/00  
7317 kHz, 12-10, 0915 UTC: 287/33  
9960 kHz, 12-10, 1020 UTC: 236/00

16112 kHz, 15-10, 1015 UTC: 475/00  
9960 kHz, 16-10, 1020 UTC: 426/00  
7317 kHz, 19-10, 0915 UTC: 484/00  
9960 kHz, 19-10, 1020 UTC: 426/00  
9960 kHz, 26-10, 1020 UTC: 426/00  
5815 kHz, 27-10, 1020 UTC: 338/38



## S21

4454//4854 kHz, 02-10, 1842 UTC:

454 794 30

87455 64099 34187 47081 03435 30123 17360 29289 29428  
54705 92370 50721 19253 30916 73094 46153 93436 91501  
97965 29846 36529 44765 00242 21106 17927 97580 83463  
32973 88977 90656  
794 30 000

4454//4855 kHz, 11-10 & 18-10, 1842 UTC:

454 101 35

83923 96160 95578 95619 75652 40947 12889 95810 97727  
69500 99121 00392 70832 03539 44538 93228 37612 42035  
69854 23259 49451 84090 54582 10526 22696 20824 69245  
46214 19410 74747 28880 97768 52730 88997 94091  
101 35 000



## S28 - The Buzzer

Mode: USB

Frequency: 4625 kHz

03-10, 1323 UTC:	MDZhB 01 511 NACheRNENIE 72 80 33 08 NAHLYNOK 67 69 18 19
03-10, 1326 UTC:	MDZhB 74 113 MAHILIS 72 06 62 09
04-10, 1307 UTC:	MDZhB 50 713 NAHILA 81 26 79 18 (see M32)
07-10, 1324 UTC:	MDZhB 96 255 NAFTOKS 21 02 58 93 (see M32)
08-10, 1132 UTC:	MDZhB 41 034 KAZIMIA 94 68 24 64
08-10, 1149 UTC:	MDZhB 60 115 ZAUSHNITsA 52 58 98 40
08-10, 1229 UTC:	MDZhB 63 497 RAUNG 85 24 82 08
14-10, 1314 UTC:	MDZhB 87010 SATELLIT 6463 3984 (see M32)
14-10, 1318 UTC:	MDZhB 23574 PASHA 5240 4455 (see M32)
22-10, 0650 UTC:	MDZhB 63 644 GASTROPTOZ 02 57 01 21
22-10, 0816 UTC:	MDZhB 06 155 KASTELYaN 72 18 24 22
22-10, 0820 UTC:	MDZhB 34 412 RASSEV 48 99 62 66
22-10, 0828 UTC:	MDZhB 95 331 VASSAL'NYJ 76 17 61 38
22-10, 0842 UTC:	MDZhB 06 855 RASPIRANIE 71 77 91 11 VASOVITYJ 26 57 48 86
24-10, 1144 UTC:	MDZhB 68 005 PASKOIT 91 31 72 65 same message was sent on 11 April at 1144 UTC
24-10, 1200 UTC:	MDZhB 76 730 VASILISNIK 86 57 93 23 same message was sent on 11 April at 1252 UTC
24-10, 1227 UTC:	MDZhB 09 024 BASENNYJ 88 88 02 59
24-10, 1228 UTC:	MDZhB 58 495 FASADOChYJ 33 23 79 27
24-10, 1230 UTC:	MDZhB 90 440 NARYVNYJ 51 59 56 16 (see M32)
24-10, 1316 UTC:	MDZhB 83 808 ChARY 41 19 69 63
24-10, 1318 UTC:	MDZhB 70 265 PARUSLO 53 43 72 00 - not repeated, buzzer on
24-10, 1319 UTC:	MDZhB 70 265 PARUSLO 53 43 72 00

Possibly two transmitters at the same time. Backup and main transmitters 3 kHz apart.

4622 kHz, 12-10, 0822 UTC: carrier + USB  
 4625 kHz, 12-10, 0822 UTC: USB  
 4622 kHz, 12-10, 1300 UTC: carrier + USB  
 4625 kHz, 12-10, 1300 UTC: USB  
 4622 kHz, 12-10, 1630 UTC: silent carrier  
 4625 kHz, 12-10, 1630 UTC: USB  
 4622 kHz, 12-10, 1650 UTC: carrier + USB  
 4625 kHz, 12-10, 1650 UTC: USB  
 4622 kHz, 12-10, 1707 UTC: carrier + USB  
 4625 kHz, 12-10, 1707 UTC: USB  
 4622 kHz, 12-10, 1930 UTC: Off  
 4625 kHz, 12-10, 1930 UTC: Back to normal





## S30 - The Pip

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

A busy day on 10 Oct. on 3756 kHz. Copied by Avare, Tucana (via Priym.org) and Scarlet Fido. Recordings of the first three transmissions are on the N&O website. Note that the "8MUO" transmissions are rare ones.

Scarlet sent us the following write-up of the October activities. Thanks for that !

"Pip" used new call signs on the 10<sup>th</sup> of October which prompted a short monitoring period. Below are my findings.

The afternoon of new calls

As far as the online shortwave hobbyist community is aware, Pip has always used 8S1Shch (8C1Щ) as its working call sign for all its messages, but on the 10<sup>th</sup> of October this changed. At 1608z a message was transmitted to three call signs familiar from Pip's "dlya" call sign rotation: 8MUO (8МУО), 42BV (42БВ) and PMV5 (ПМВ5).

*3756 kHz, 1608z, 10.10.2012*

<http://priyom.org/media/60042/s30-3756usb-20121010-1608z-msg-byavare.wav>

8МУО 42БВ ПМВ5 42 956 23 239 30 488 ОПАСНЫЙ 75 64 18 09

8МУО 42BV PMV5 42 956 23 239 30 488 OPASNYJ 75 64 18 09

A little over an hour later it was followed by a message to one call sign only, but this time including two code words which is a very rare format for Pip.

*3756 kHz, 1730z, 10.10.2012*

<http://priyom.org/media/60059/s30-3756usb-20121010-1730z-msg-byavare.wav>

8МУО 53 597 МЕЛОВАТЫЙ 39 08 86 94 СКОПУЛИТ 69 72 83 78

8МУО 53 597 MELOVATYJ 39 08 86 94 SKOPULIT 69 72 83 78

Not long after there were a further three messages in short succession, all with one code word and all addressed to the same three recipients of the first message of the day. It should be noted that this same message format is used by the Buzzer (S28) – all recipients get their own 2fg 3fg "instruction group" and share the same code word and the following four number groups.

*3756 kHz, 1808z, 10.10.2012*

<http://priyom.org/media/60683/s30-3756usb-20121010-1808z-msg-byfido.ogg>

8МУО 42БВ ПМВ5 16 378 53 213 88 901 БЫТНОСТЬ 66 80 83 84

8МУО 42BV PMV5 16 378 53 213 88 901 BYTNOST' 66 80 83 84

*3756 kHz, 1815z, 10.10.2012*

<http://priyom.org/media/60686/s30-3756usb-20121010-1815z-msg-byfido.ogg>

8МУО 42БВ ПМВ5 57 089 94 545 16 546 ВЕРАМИТАН 33 66 84 60

8МУО 42BV PMV5 57 089 94 545 16 546 VYeRAMITAN 33 66 84 60

*3756 kHz, 1830z, 10.10.2012*

<http://priyom.org/media/60689/s30-3756usb-20121010-1830z-msg-byfido.ogg>

8МУО 42БВ ПМВ5 22 516 69 595 95 805 ВВЫЗАНИЕ 24 52 58 94

8МУО 42BV PMV5 22 516 69 595 95 805 VVYZAN'Ye 24 52 58 94

After the 10<sup>th</sup> the nighttime frequency was monitored up to the 28<sup>th</sup>, and in this time Pip sent 29 messages in total, aside from the five already mentioned there was only one "real" message to the call sign 8S1Shch (8C1Щ) and the rest were "dlya" propagation test messages. Still, a few are noteworthy and get a mention below.

A call tweaked

A new call sign was introduced in a "dlya" message on the 16<sup>th</sup>. Based on previous research the last call sign should logically be FY5Ye (ФЫ5Е) instead of FN5Ye (ФН5Е) which looks to be a new one. This might be a one-off occurrence where an existing call is changed by one letter – it has happened before and this doesn't sound like a reading error.

3756 kHz, 1651z, 16.10.2012

<http://priyom.org/media/60692/s30-3756usb-20121016-1651z-msg-byfido.ogg>

Для 5ФЦЦ ДМЦЗ 49ФТ ЦЗЗА ЛИ27 ИННЦ ЦГЙП 8ЦЦЙ ТЗЛМ ФН5Е

Dlya 5FSShch DMC3 49FT C2ZA LI27 INNC ShchGJP 8CSchJ TZLM FN5Ye

#### Distortion woes

A microphone problem occurred on the 20<sup>th</sup>, causing severe distortion. Note that during the break in the reading the distortion is not present so it is very likely that the distortion really originates from Pip. This problem hasn't reoccurred; coincidentally on the same night the night frequency transmission ran long with the transmitter turning off at 0445z instead of normal 0330z.

3756 kHz, 1633z, 20.10.2012

<http://priyom.org/media/60695/s30-3756usb-20121020-1633z-msg-byfido.ogg>

Для 8ЦЦЙ ТЗЛМ ФЫ5Е Ф61Н 37ЦН МУДР 7ВНЦ Ж7НЖ ЫМА5 ВТХЗ

Dlya 8CSchJ TZLM FY5Ye F61N 37CN MUDR 7VNSch Zh7NZh YMA5 VTH3

#### Отставить!

On the third repeat of a routine "dlya" message the operator accidentally reads "G" instead of "P" and corrects with "Ostavit'!".

3756 kHz, 1709z, 13.10.2012

<http://priyom.org/media/60698/s30-3756usb-20121013-1709z-msg-byfido.ogg>

Для 42БВ 81БР М7КС G...Отставить! ПМВ5 ЛЬГЙ ТЩЦС ВКЫ1 ХЦЛФ 61ХЖ ЗБИЛ

Dlya 42BV 81BR M7KS G... Otstavit'! PMV5 L'GJ TShchShchS VKY1 HCLF 61HZh ZBIL

#### Other notes

It's clear that the Dlya messages run on a loose "schedule" for the time being and one can be heard almost every day between 1630-1747z. But, judging by last year, Pip will switch to its winter schedule at the start of November – 3756 kHz 1300-0430z and 5448 kHz 0430-1300z – which might change the station behavior.

#### S30 October logs

3756	10-10	1608	8MUO 42BV PMV5 42 956 23 239 30 488 OPASNYJ 75 64 18 09
3756	10-10	1730	8MUO 53 597 MELOVATYJ 39 08 86 94 SKOPULIT 69 72 83 78
3756	10-10	1747	Dlya F61N 37CN MUDR 7VNSch Zh7NZh YMA5 VTH3 AGDT 'U1B OSOG
3756	10-10	1808	8MUO 42BV PMV5 16 378 53 213 88 901 BYTNOST' 66 80 83 84
3756	10-10	1815	8MUO 42BV PMV5 57 089 94 545 16 546 VYeRAMITAN 33 66 84 60
3756	10-10	1830	8MUO 42BV PMV5 22 516 69 595 95 805 VVYZAN'Ye 24 52 58 94
3756	11-10	0317	Dlya BO6C F56Shch 9GSA ZhBZU 4RVZ 3VS' DKJ1 6I2Zh ZhD9V SJ5C
3756	11-10	1658	Dlya L7O5 V'Z' NLCYe V2MZ SB7Z Y8VM 8MUO TUZR 5J7Shch 27Shch'
3756	12-10	0005	8S1Shch 76 560 ZVYeNOVIK 14 98 82 91
3756	12-10	1712	Dlya F56Shch DMC3 49FT C2ZA LI27 INNC ShchGJP 8CSchJ TZLM FY5Ye
3756	13-10	0311	Dlya F61N 37CN MUDR 7VNSch Zh7NZh YMA5 VTH3 AGDT 'U1B OSOG
3756	13-10	1709	Dlya 42BV 81BR M7KS PMV5 L'GJ TShchShchS VKY1 HCLF 61HZh ZBIL
3756	14-10	1746	Dlya F61N 37CN MUDR 7VNSch Zh7NZh YMA5 VTH3 AGDT 'U1B OSOG
3756	15-10	1709	Dlya L7O5 V'Z' NLCYe V2MZ SB7Z Y8VM 8MUO TUZR 5J7Shch 27Shch'
3756	16-10	1651	Dlya 5FSShch DMC3 49FT C2ZA LI27 INNC ShchGJP 8CSchJ TZLM FN5Ye
3756	17-10	1740	Dlya 81BR M7KS PMV5 L'GJ TShchShchS VKY1 HCLF 61HZh ZBIL L7O5
3756	18-10	0311	Dlya V'Z' NLCYe V2MZ SB7Z Y8VM 8MUO TUZR 5J7Shch 27Shch' N1DU
3756	18-10	1657	Dlya AGDT 'U1B OSOG BO6C F56Shch 9GSA ZhBZU 4RVZ 3VS' DKJ1
3756	19-10	1707	Dlya TUZR 5J7Shch 27Shch' N1DU 53OB 78MV 'MSV YGJ' 12CI 79AJ
3756	20-10	1633	Dlya 8CSchJ TZLM FY5Ye F61N 37CN MUDR 7VNSch Zh7NZh YMA5 VTH3
3756	21-10	1722	Dlya HCLF 61HZh ZBIL L7O5 V'Z' NLCYe V2MZ SB7Z Y8VM 8MUO
3756	22-10	0235	Dlya TUZR 5J7Shch 27Shch' N1DU 53OB 78MV 'MSV YGJ' 12CI 79AJ
3756	22-10	1530	Unreadable (Dlya)
3756	22-10	1705	Unreadable (Dlya)
3756	23-10	1722	Dlya ZhD9V SJ5C 42BV 81BR M7KS PMV5 L'GJ TshchShchS VKY1 HCLF
3756	25-10	1718	Dlya 8CSchJ TZLM FY5Ye F61N 37CN MUDR 7VNSch Zh7NZh YMA5 VTH3
3756	26-10	0240	Dlya AGDT 'U1B OSOG BO6C F56Shch 9GSA ZhBZU 4RVZ 3VS' DKJ1

3756 27-10 1630 Unreadable (Dlya)  
3756 28-10 0300 Unreadable (Dlya)

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## **S6930**

Frequency: 6930 kHz  
Mode: USB voice

A number of S6930 logs from ScanSweden. Great!

18-09, 0732 UTC: Katok-65 34 208 REMONT 31 04 34 09 Priyom  
18-09, 1617 UTC: Katok-65 18 863 OZhEG 2411 8074 Priyom  
19-09, 0600 UTC: Katok-65 71 043 LETO 72 74 88 81 Priyom  
19-09, 1200 UTC: Katok-65 62 979 DISK ?141 2772 Priyom  
20-09, 1226 UTC: Katok-65 46 244 AEROBIKA 87 42 4? 77 Priyom  
20-09, 1559 UTC: wkg various stations  
21-09, 0644 UTC: wkg various stations  
21-09, 0655 UTC: wkg various stations  
21-09, 0717 UTC: wkg various stations  
21-09, 1507 UTC: wkg various stations  
22-09, 0451 UTC: Katok-65 39 615 SAROFAN 41 52 33 42 Priyom  
22-09, 1748 UTC: Katok-65 35 586 MOLOChNIK 82 07 34 27 Priyom  
(Note: Mariya, not Mikhail; Chasy, not Chelovek; Ilya, not Ivan)  
23-09, 1649 UTC: Katok-65 52 926 ANSAMBL 4527 0228 Priyom  
23-09, 1806 UTC: Katok-65 94 113 IKRA 88 73 82 68 Priyom  
07-10, 1405 UTC: Katok-65 10 101 KARANDASH 67 98 00 4 Priyom  
(Note: only 7 figures in the last group, also in the repeat)  
07-10, 1731 UTC: Katok-65 20 112 BLOKNOT 31 04 80 74 Priyom  
08-10, 1654 UTC: Katok-65 64 985 ZhURNAL 66 66 99 99 Priyom  
11-10, 1833 UTC: Katok-65 49 566 VOZRAST 10 48 29 12  
11-10, 1617 UTC: Maska-31 31 914 MOTOR 19 97 13 45  
11-10, 1106 UTC: Katok-65 51 241 KOREN 10 10 11 11  
11-10, 1737 UTC: Katok-65 45 289 TEKhnIK 18 74 15 46  
11-10, 1324 UTC: Katok-65 68 793 TETRAD 44 44 57 89

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## ***RMv / RNv / RAv*** **Russian military stations**

Frequency: various  
Mode: USB voice

### **RMv**

4610 kHz, 03-10, 1328 UTC:  
37 168 POLITIKA 35 61 87 29 POLIPEPTID 94 92 05 69 Povtoryau (Repeat)  
37 168 POLITIKA 35 61 87 29 POLIPEPTID 94 92 05 69 Kapel'05 Dajte kvitantciyu (pse QSL) 01 7

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## **RADv - Russian Air Defense**

Frequency: various  
Mode: USB voice

5416 kHz, 01-10, 1912 UTC: Russian Air Defense, c/s "Nejtron", "Vol'fram"  
4780 kHz, 03-10, 1851 UTC: Russian Air Defense. "NBSHchOL-10 Variant-1 Priyom"  
5130 kHz, 04-10, 2032 UTC: Russian Air Defense. "BAYKAL-35, ya OS'-13, proshu na svyaz (pse communicate)?, priyom"

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

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

Station #3 had daily transmissions on 9276 kHz at 0700 and 0800 UTC.

Station #4 had daily transmissions on 11430 kHz at 0500, 0600, 1200 and 1300 UTC.

New schedules per 14 October, reportedly via the transmitter site in Guanyin. The site has three masts as you can see.

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

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



## **V26**

9153 kHz, 06-10, 1356 UTC: ip, 3FGs, Chinese YL says something as a rhyme using Chinese/EE language



## ***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.

5330 kHz, 01-10, 1305 UTC

5330 kHz, 01-10, 2213 UTC

6209 kHz, 06-10, 1330 UTC

6209 kHz, 07-10, 1340 UTC, 1618 UTC

6209 kHz, 13-10, 1143 UTC

6209 kHz, 14-10, 1309 UTC

6209 kHz, 17-10, 1209 UTC





Dutch SIGINT site Schefferkamp, De Lier



Dutch SIGINT site Schefferkamp, De Lier

## 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: 6928 kHz



## M01 / M01b

5020 kHz, 25-10, 2002 UTC. 463 849 489 30 30 = =  
 A transmission error or wrongly 33961 73105 91103 67510 67413 91103 67510 48305 08543 27928  
 logged? 30 in the header and 33 95918 39844 44325 40594 68265 18668 53999 32435 67581 51600  
 in the message. 47591 79147 84639 18974 24889 56649 72497 29914 82174 49531  
 32841 49760 61268 = =  
 849 849 30 30 0 0 0

6261 kHz, 27-10, 1502 UTC: 463 774 774 30 30 = =  
 54966 68898 65151 04856 65097 20520 53253 27770 58471 09231  
 37?59 99304 09530 05989 02551 41707 47201 30599 61757 11972  
 39054 38733 55274 32426 28185 77273 52188 38236 23842 59833 = =  
 774 774 30 30 0 0 0

4455 kHz, 29-10, 1916 UTC: 771 714 714 30 30 = =  
 08319 35791 08255  
 51399 95289 98119 32605 60114 17345 54357 25251 00396 98419  
 71523 58571 14669 81939 282 (stopped at 1928z, continued at 1929z: ) 9 28299 41519  
 67316  
 85257 95770 68097 59564 81770 10795 15776 69528 48076 63228 = =  
 714 714 30 30 0 0 0



## M03

6977 kHz, 06-10, 1535 UTC:

796/31 = =  
 41534 41534 70944 70944 40746 40746 47668 47668 01086 01086  
 24300 24300 55061 55061 81774 81774 91254 91254 16723 16723  
 44719 44719 70056 70056 28886 28886 02871 02871 86108 86108  
 14149 14149 77100 77100 27238 27238 21461 21461 24852 24852  
 83011 83011 06862 06862 92006 92006 54198 54198 99768 99768  
 53872 53872 40687 40687 37212 37212 07847 07847 54171 54171  
 15793 15793 = =  
 796/31 = = Msg rptd  
 0 0 0

9150 kHz, 07-10, 1322 UTC:

437/36 = =  
 52482 85743 12165 13369 01142 03569 50910 33108 73911 53782  
 72639 98230 94312 89215 60310 19743 46904 38280 46399 94254  
 71898 67389 40684 37638 18855 50082 75807 51281 97547 92170  
 19304 32095 59947 43354 78581 55195 = =  
 437/36 = = Msg rptd  
 0 0 0

9150 kHz, 02-10, 1115 UTC: 272/00 = = 000  
 6977 kHz, 10-10, 1535 UTC: 798/00 = = 000  
 9150 kHz, 11-10, 1320 UTC: 437/00 = = 000  
 6977 kHz, 13-10, 1535 UTC: 798/00 = = 000  
 9150 kHz, 14-10, 1320 UTC: 438/00 = = 000  
 9150 kHz, 16-10, 1115 UTC: 272/00 = = 000  
 6977 kHz, 16-10, 1535 UTC: 798/00 = = 000  
 6977 kHz, 20-10, 1535 UTC: 798/00 = = 000  
 9150 kHz, 21-10, 1320 UTC: 437/00 = = 000  
 6433 kHz, 21-10, 2000 UTC: 265/30 5FGs  
 9150 kHz, 24-10, 1115 UTC: 650/00 = = 000  
 9150 kHz, 25-10, 1320 UTC: 437/00 = = 000  
 6977 kHz, 27-10, 1535 UTC: 798/00 = = 000  
 9150 kHz, 28-10, 1320 UTC: 437/00 = = 000  
 9150 kHz, 30-10, 1109 UTC: 272/00 = = 000



## M12

Again lots of M12 logs in October. Check the Logs Section for the logs. Below several complete transcripts.

9176/7931/6904 kHz, 08-10, 1900/1920/1940 UTC:

257 257 257 1 5056 78 5056 78  
 65568 00432 92483 06145 39180 50850 15?26 17518 00863 22081  
 98587 30528 27496 51568 42624 38757 93908 15085 82111 71830  
 96221 77559 35420 63170 59665 97290 55079 82482 18799 73390  
 01580 71218 97841 ?1768 26476 55436 51512 72112 33032 52106  
 6?421 35381 58927 12332 56031 23474 69290 23004 99678 14803  
 53262 75082 54242 63545 52208 83000 69607 81113 61432 78566  
 15074 42897 96?35 08424 74435 94852 89102 64312 45902 24608  
 51732 32049 20036 86754 77942 39261 16894 25127  
 000 000

10343 kHz, 12-10, 1800 UTC:

124 124 124 1 4475 75  
 47791 24034 90083 28542 68321 33782 47761 22989 35730 94891  
 68504 73012 90473 07746 66824 69152 53419 23514 41351 16884  
 42164 83040 06283 01084 30056 23735 50083 58523 02183 25060  
 79102 69074 53370 70582 19007 04475 70808 05073 27427 87386  
 35341 15145 42229 26578 96942 56225 41410 33951 98896 19993  
 08894 71307 06839 67277 51584 21969 82783 19037 50949 34593  
 40336 13107 34472 69453 23077 14769 11774 65344 45562 04838  
 23143 85928 91165 95755 00981  
 000 000

9176/7931/6904 kHz, 11-10, 1700/1720/1740 UTC:

257 257 257 1 9811 49  
 37063 72656 40205 34772 82057 41456 41180 75952 80845 55024  
 84950 36203 06529 66981 19032 70417 32482 62673 04980 21976  
 15157 14504 60260 29684 66539 20748 37243 75077 72291 41187  
 37204 06367 12216 80100 66431 39860 35462 07608 41786 43456  
 06203 88172 74557 07808 04976 23659 08514 86472 77495  
 000 000

10343. kHz, 26-10, 1800 UTC:

124 124 124 1 540 47  
 32484 79881 80846 42492 26824 64509 83388 09885 91824 35849  
 75714 82975 50222 14612 93443 40224 44545 83183 81204 54859  
 34576 16482 03916 24951 78700 00754 59249 18202 68533 93407  
 20671 08327 34016 21752 74118 05902 33747 03987 61449 95019  
 38104 16510 85177 55486 69647 77541 32922  
 000 000



## M14

5947 kHz, 09-10, 1820 UTC:

346 801 801 15 15 = =  
 61739 01728 91027 39103 92015 81829 40173 20194 61021 53910  
 29103 10285 83910 71037 = =  
 801 801 15 15  
 00000



## M18

3883 kHz, 07-10, 2028 UTC: "0027 0027 0028 0028" etc. Time sent is UTC+4  
 3883 kHz, 09-10, 2032 UTC: "0033 0033 0034" etc. Time sent is UTC+4  
 3883 kHz, 15-10, 2051 UTC: "0051 0051 0052 0052 0053" etc. Time sent is UTC+4



***M21 + variants***  
***Russian Air Defence Forces***  
***Во́йска ПВО Voyska PVO***

Id "0": 5201  
 Id "8": 5751  
 Id "9": 7914

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***M23***

5345 kHz, 07-10, 1709 UTC: 246 repeated, ends with a long dash  
 5345 kHz, 10-10, 1910 UTC: 246 repeated  
 4951 kHz, 14-10, 1705 UTC: 246 repeated, ends with a long dash  
 5345 kHz, 15-10, 1706 UTC: 246  
 4950 kHz, 15-10, 1708 UTC: 246  
 4950 kHz, 15-10, 1809 UTC: 246  
 5345 kHz, 15-10, 1809 UTC: 246

Copied by Les, Q, FMB and Hans.

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***M24***

Q copied M24 in progress on 8116 kHz, 12-10, 1809 UTC. Short zero's. Groups repeated.

...  
 92043 92043 03943 03943 91937 91937 02837 02837 72861 72861  
 67576 67576 01094 01094 45789 45789 29513 29513 27685 27685  
 45753 45753 24369 24369 38903 38903 61454 61454 89260 89260  
 = 805 805 92 92  
 00000

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***M32***  
***Russian Military CW Stations***

A selection of the M32 logs. See further the Logs Section.

4557 kHz, 04-10, 1307 UTC: VVVV MDVB 50713 NAHILA 8126 79 18 (see S28)  
 4557 kHz, 07-10, 1323 UTC: XXX XXX MDVB 96255 NAFTOKS 2102 5893 K (see S28)  
 4557 kHz, 14-10, 1316 UTC: XXX MDVB 87010 SATELLIT 6463 3984 (see S28)  
 4557 kHz, 14-10, 1320 UTC: XXX MDVB 23574 PASHA 5240 4455 (see S28)  
 4557 kHz, 24-10, 1230 UTC: XXX MDVB 90 440 NARYVNYJ 51 59 56 16 (see S28)

Note: The Russian letter "Zh" is in morse "V". So MDVB = MDZhB



14014 kHz, 03-09, 0726 UTC: XXX G5CX F2ET 77440 65904  
 14014 kHz, 03-09, 0726 UTC: BERMANIT 0126 1207 K  
 12464 kHz, 10-10, 0830 UTC: xxx xxx BRANÖUGA 06942 84776 01226 00222 41986 94788 03507 00200 11230 k  
 12464 kHz, 10-10, 1127 UTC: xxx xxx BRANzhUT 29270 87683 01530 00222 04621 04806 00012 01533 k  
 12464 kHz, 10-10, 1512 UTC: xxx xxx BRANÖUGA 80358 24297 01858 00222 79115 35668 00110 11900 k  
 12464 kHz, 10-10, ---- UTC: xxx xxx rks rks BRANÖUGA 71358 24297 03747 0001 702 ... k  
 12464 kHz, 10-10, 1752 UTC: xxx xxx BRANÖUGA 06942 81776 02140 00111 42977 95243 07012 00650 12145 k  
 8345 kHz, 10-10, 1757 UTC: xxx xxx BRANÖUGA 06942 81776 02140 00111 42977 95243 07012 00650 12145 k  
 4560 kHz, 12-10, 1604 UTC: XXX XXX LR43 LR43 55560 ISQEPKA 9916 6072 SIGNAL GARPUN K (4x)  
 4619 kHz, 12-10, 1555 UTC: XXX XXX 2V8I 2V8I 48621 OBTONYJ 6994 6106 K //4619 kHz  
 4590 kHz, 12-10, 1555 UTC: XXX XXX 2V8I 2V8I 48621 OBTONYJ 6994 6106 K //4590 kHz  
 3828 kHz, 12-10, 1552 UTC: XXX XXX XB2M XB2M 72991 OBTVNOJ 6872 8011 K //3808 kHz  
 3808 kHz, 12-10, 1552 UTC: XXX XXX XB2M XB2M 72991 OBTVNOJ 6872 8011 K //3828 kHz  
 3828 kHz, 12-10, 1550 UTC: XXX XXX JFB5 JFB5 86660 OBUH 8330 3249 K

Note that 3828 kHz is also the frequency of S30. I am not sure if this station actually transmitted the morse messages. Probably not.



## **M32a** **Russian Navy** **Voyenno-Morskoy Flot Rossii**

A selection of the M32a logs. See further the Logs Section.

3748 kHz, 10-10, 1615 UTC:

REO REO DE RMP RMP QTC 525E164 1T 1956 52 IEEE5= SML = PROGNOZ POGODY DO 18 ÖASOW 11 OKTÄBRÄ BALTIJSK IEIT-SOE ORE POGODA OPREDELÄETSÄÜGOZAPADNOJ PERIFERIEJ CIKLONA CENTR IESOM BELYM MMREM RAJON 1 WETER SEW-EROZAPADNYJ 5 TIRE 10 PORYWY E IEEI2 MSWOLNENIE3 BALLAWYSOTOJ 8 TIRE 12 DE UROWENX ALTIJS E IE EKE WELÜS 0 LÜS 70 SM OBLANOSTX TS TIRE 9 BALLOW WYSOTOJ 300 TIRE 600 METROW WREMENAMIDOVDX MESTAMI GRAD UTROM DYMKA WIDIMOSTX 4 E EEBRE DYMKE 2 TIRE 4 KM TEMPERATURA WOZDUHA 8 TIRE 11 NOÖXÜ PO E ESBREXVÜ 6 TIRE 8 WODY 12 TIRE 15 GRADUSOW RLN POWYÇENNAÄ RAJO EIN R T WETER SEWEROWOSTOÖNYJ DNEM SEWERNYJ SEWEROZAPADNYJ 5 TIRE 8 M EI WOLNENIE J BALLA UROWENX SPETERBURGE PLÜS 40 PLÜS 70 SM WREMENAMI IEIETOVDX NOÖXÜ UTROM DYMKA WIDMOSTX 4 TIRE 10 DYMKE 1 TIRE 2 K EEEEMTMPERATURA 4 TIRE6 DNEM 6 TIRE 8 GRADUSOW RAJON 3 WETER SEWEROZAP EE 3DNYJ SEWERNYJ H TIRE 12 NOÖXÜ NAÖALE DNÄ PORYWY 15 MS WOLNE AIENIE3 TIRE 4 BALLA RA-JON WTER SEWEROZAPADNYJ ZAPADNYJ 5TIRE 10 PORYWY 12 DNEM PELEMENNYJ 3 TE RE 8MS WOLNENIE 2 TIRE 3 DNEM W E T+E 2T E ETTTLA AR

3748 kHz, 10-10, 1841 UTC: RJD69 RJD69 DE RMP RMP QYT4 QSX 5456 QWH 4109 AR  
 10894 kHz, 30-09, 2208 UTC: Russian Navy: RMMA tfc to RIW after CW-opchat on 8345/9145 kHz  
 4433 kHz, 19-10, 2102 UTC: Severomorsk Naval Radio "RLO de RIT QTC 175 34 20 0058 175 = RADIOPROGNOZ 20102 03003 30001 ... 00612 40011 =" repeats msg.  
 5372 kHz, 23-10, 1812 UTC: Russian Navy Floating Workshop PM-138 "RCV DE RBIZ 894 17 23 2200 894 = FOR RJE73 RJH45 = 23181 99349 10358 41... .230. 10245 40118 ..012 70200 84.00 22200 002.. 88000 23014 = + RBIZ K"  
 5372 kHz, 15-10, 0012 UTC: Russian Navy Floating Workshop PM-138 "RCV DE RBIZ 321 17 25 0400 321 = FOR RJE73 RJH45 = 25001 99349 10358 41597 70503 10220 40112 50000 70202 87110 22200 00240 20000 88000 25014 = + RBIZ K"  
 7763 kHz, 25-10, 1804 UTC: Russian Navy Floating Workshop PM-56 "RCV DE RIR98 458 18 25 2200 458 = SML FOR RJE73 RJH45 = 25181 99346 10346 41598 63404 10230 40100 58013 70222 86420 22212 00190 20000 88000 25014 = + RIR98 K"

#### 5129 kHz

20-10, 1804 UTC: Russian Navy Floating Workshop PM-56 "RCV DE RIR98 926 18 20 2200 926 = SML FOR RJE73 RJH45 = 20181 99432 10313 4.598 50708 20200 40107 58006 70122 85410 22272 00175 20302 88000 20014 = + RIR98 K"

21-10, 0029 UTC: Russian Navy Floating Workshop PM-56 "RCV DE RIR98 864 18 21 0400 864 = SML FOR RJE73 RJH45 = 21001 99426 10303 41597 50709 10200 40195 54000 70222 85410 22272 00175 20302 88000 21014 = + RIR98 K"

21-10, 1804 UTC: Russian Navy Floating Workshop PM-56 "RCV DE RIR98 523 18 21 2200 523 = FOR RJE73 RJH45 = 21181 99409 10288 41598 70408 10207 40150 57011 75055 87610 22252 00180 20101 88000 21014 = + RIR98 K"

22-10, 0004 UTC: Russian Navy Floating Workshop PM-56 "RCV DE RIR98 348 18 22 0400 348 = SML FOR RJE73 RJH45 = 22001 99407 10276 41598 70329 10200 40150 54000 75055 84610 22252 00180 20101 88000 22014 = + RIR98 K"

22-10, 1808 UTC: Russian Navy Floating Workshop PM-56 "RCV DE RIR98 395 18 22 2200 395 = SML FOR RJE73 RJH45 = 22181 99389 10253 41598 40012 10202 40143 57000 77111 84310 22242 00180 20403 88000 22014 = + RIR98 K"

23-10, 1836 UTC: Russian Navy Floating Workshop PM-56 "RCV DE RIR98 342 18 23 2200 342 = SML FOR RJE73 RJH45 = 23181 99360 10273 41598 72502 10200 40140 58010 71022 87420 22212 ..280 20000 88000 23014 = + RIR98 K"

24-10, 1822 UTC: Russian Navy Floating Workshop PM-56 "RCV DE RIR98 281 18 24 2200 281 = SML FOR RJE73 RJH45 = 24181 99347 10312 40598 70103 10201 40125 58005 70322 58015 70322 87520 22232 00180 20000 88000 24014 = + RIR98 K"

25-10, 0006 UTC: Russian Navy Floating Workshop PM-56 "RCV DE RIR98 464 18 25 0400 464 = SML FOR RJE73 RJH45 = 25001 99345 10321 41597 70103 10220 40111 58014 70399 87520 222.. 00190 20000 88000 25014 = + RIR98 K"

#### 8345 kHz

02-10, 0627 UTC: Russian Navy: rit de rmma qsa? K

30-09, 0910 UTC: Russian Navy: qtc to rit rjp30 249 18 30 1305 449 = for rmsz rjh74 = 30091 99682 10397 ... 22282 .. 30015 = + rjp30 k

30-09, 2135 UTC: Russian navy: RMMA clg RIW qsa3 k - qyt4 qsx 11513 k - 2145z qyt9 qsx 7788

01-10, ---- UTC: Russian Navy: RMMA clg RIW qyt9 qsa? k - qyt9 qsx 11513 ok? k - qyt9 qsx 8338 k - qyt9 qsx 10894 k - qyt9 qsa? k

01-10, 0948 UTC: Russian Navy: riw de rfh61 qsa2 k

22-10, 1805 UTC: Russian Navy Tug MB-304 "RCV DE RMYZ 691 17 22 2203 691 = SML FOR RJE73 RJH45 = 22181 99387 10250 4///9 70212 10200 40160 50000 70222 22252 00215 299// 399// 22013 = + RMYZ K"

25-10, 0006 UTC: Russian Navy Tug MB-304 "RCV DE RMYZ 527 17 25 0400 527 = SML FOR RJE73 RJH45 = 25001 99360 10157 41/98 /0902 10220 40150 50000 70200 22262 00250 20000 399// 25013 = + RMYZ K"

25-10, 1755 UTC: Russian Navy Destroyer Smetlivy "RCV DE RFH70 QYT 4 QSX 5472 / 8684 K"

#### 12464 kHz

02-10, ---- UTC: Russian Navy: RFH70 confirming msg from (RIW?) 623 43 2 1057 623 = fm RAA = 54612 66858 91182 ....

30-09, 2116 UTC: Russian Navy: RJQ84 clg RIT agn 2121z

01-10, 0947 UTC: Russian Navy: riw de rfh61 qsa3 k

21-10, 1203 UTC: Russian Navy Tug MB-304 "RCV DE RMYZ 837 18 21 1600 837 = FOR RJ373 RJH45 = 21121 99410 10290 41493 22307 10250 40150 53020 70199 82701 22252 00210 20000 399// 21014 = + RMYZ K"

22-10, 1201 UTC: Russian Navy Tug MB-304 "RCV DE RMYZ 555 18 22 1600 555 = SML FOR RJE73 RJH45 = 22121 99395 10256 41496 50212 10200 40160 50000 70222 85402 22252 00210 299// 399// 22014 = + RMYZ K"

23-10, 1205 UTC: Russian Navy Tug MB-304 "RCV DE RMYZ 688 18 23 1600 688 = SML FOR RJE73 RJH45 = 23121 99364 10228 41598 32702 10240 40150 50000 70211 84202 22262 00235 20000 399//"

24-10, 1810 UTC: Russian Navy Tug MB-304 "RCV DE RMYZ 152 21 17 23 2203 152 = SML FOR RJE73 RJH45 = 23181 99362 10219 41/96 /2903 10220 40150 50000 75011 22262 00250 20000 399// 23013 = + RMYZ K"

Tom forwarded related news: "Black Sea Fleet Floating Workshop Heads for Tartus. Floating workshop PM-56 left Sevastopol and headed for the Mediterranean Sea in order to reach Syrian port Tartus, said Black Sea Fleet (BSF) spokesman Capt 1 Rank Vyacheslav Trukhachev on Oct 20. "PM-56 will call at Tartus to shift floating workshop PM-138 which crew has been maintaining Russian naval assets deployed in the Mediterranean Sea for half a year", reports Interfax citing Trukhachev. Seagoing tug MB-304 also left the harbor last Saturday. After passing the Black Sea Straits in Oct 21-22, the ship will set a course for Italy to join BSF destroyer Smetlivy in the IONIEX-2012 joint Russo-Italian naval exercise."

The information was derived from the following link [http://rusnavy.com/news/navy/index.php?ELEMENT\\_ID=16224](http://rusnavy.com/news/navy/index.php?ELEMENT_ID=16224)



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

A selection of the M32b logs. See further the Logs Section.

**8816 kHz**

02-10, 1304 UTC: Russian Naval Aviation: 26747 qtc to rf94 rcb 26747 qto 1200 qrd XLLV XMWB qre 1430 qah 5800 qbd 4200 - qth 5820 1949 qtr 1303 qah 5800 qbd 3600 - qth qay EETT 1340 qal XLLV 1424 qah 5800 qbd 2900 - qqm XLLV 1432 sk

03-10, 0932 UTC: Russian Naval Air Transport: 11605 qtc to rjc38 rjf94 qto 0922 qrd XLLV XUMO qre 1120 qbd 12000 - qth 5815 3410 qtr 1021 qbg 6100 qre XLLV 1115 - qqm XLLV 1112 sk

03-10, 0932 UTC: Russian Naval Air Transport: 26747 qtc to rjf94 rcb qto 1221 qrd XMWB XLLV qre 1510 qah 5500 qbd 4800 - qay EETT 1323 qah 5500 qbd 3700 k - qay EVRR 1437 qal XMWB 1524 qah 5500 qbd 2700 k - qqm XMWB 1527 sk

03-10, 0932 UTC: Russian Naval Air Transport: 11605 qtc to rjf94 rjc38 qto 1250 qrd XLWF XLLV qbd 10700 - qth 6001 3945 qtr 1343 qbg 5700 qre XLWF 1410 k - qqm XLWF 1402 sk

05-10, 0808 UTC: 26747: Russian Naval Air Transport AN-26. qtc to rjf94 rcb qto 0620 qrd XLOS XMWB qre 0940 qah 5800 qbd 4800 - qay EVRR 0710 qah 5800 qbd 4300 - qay EETT 0804 qal XLOS 0930 qah 5800 qbd 3500 - qql XLLK 0915 qal XLOS 1000 qah 5800 qbd 2600 - qqm XLOS 1010 sk

05-10, 1103 UTC: 11605: Russian Naval Air Transport AN-12. qtc to rjf94 rjc38 qto 1027 qrd ULAA XLWF qre 1200 qbd 1270 - qth 6310 3953 qtr 1126 qbg 5600 - qqm ULAA 1152 sk

05-10, 1359 UTC: 26747: Russian Naval Air Transport AN-26. qtc to rcb qto 1335 qrd XUMO XLOS qre 1530 qah 5200 qbd 4800 - qql UUKW 1432 qal XUMO 1525 qah 5200 qbd 4000 - qqm XUMO 1527 sk

05-10, 1414 UTC: 11605: Russian Naval Air Transport AN-12. qtc to rjf94 rjc38 qto 1408 qrd XLMO ULAA qre 1525 qbd 1130 - qth 6727 3247 qtr 1505 qbg 3000 - qqm XLMO 1525 sk

05-10, 1658 UTC: 26747: Russian Naval Air Transport AN-26. qtc to rjf94 rcb qto 1645 qrd XRKE XUMO qre 1940 qah 5800 qbd 4700 - qay XRRI 1900 qal XRKE 1950 qah 5800 qbd 4600(?)



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

A selection of the M32c logs. See further the Logs Section.

5835 kHz, 18-10, 0854 UTC: QZ6Y: Russian Air Force ATIU DE QZ6Y K

**8162 kHz**

18-10, 0643 UTC: 4ASU: Russian Air Force WYXV DE 4ASU K

18-10, 0640 UTC: "W" marker

18-10, 0700 UTC: "W" marker

18-10, 0854 UTC: QZ6Y: Russian Air Force ATIU DE QZ6Y K

18-10, 0840 UTC: "W" marker

18-10, 0900 UTC: "W" marker

18-10, 1340 UTC: "W" marker

18-10, 1358 UTC: Russian Air Force "SZJS de QZ6Y K. QZ6Y QOE QRV K. RPT K. QZ6Y = 081 060 026 478 409 K. OK K. WYXV de QZ6Y K. BKs. WYXV de QZ6Y RPT K. QRV K. = 287 353 829 424 409 K". Then works ATIV.

18-10, 1714 UTC: QZ6Y: Russian Air Force SZJS DE QZ6Y = 917 013 799 127 145 839 018 K

18-10, 1821 UTC: 4ASU: Russian Air Force SZJS DE 4ASU = 917 013 799 127 145 839 018 C ? K

18-10, 1909 UTC: 4ASU: Russian Air Force OP2K DE 4ASU = 369 575 736 666 546 194 377 C ? K



## ***M51 / FAV22*** ***8<sup>ème</sup> Régiment de*** ***Transmission***

5452 kHz, 23-10, 2256 UTC:

NR 17 0 24 00:56:33 1984 BT  
KCGJO FFKV WKWQB CLKVG ZQEDA SVSST DWVHA VOOQB WXNKG FAQOE IXDET GAEGG IAMWB KAWFG TFYTN UQKCO FNCAX  
FDMPU ASGYZ VERCZ WTMSH TKGUG VZGWC DDDDE ISGLE BNETQ IYYML WAUWS MUIRY CJGRI GJMNG AVXOE VNVUR XASNH  
ULHEN HAQGN FKOCR NKISD IVSAZ WFNCC SQEYR MVGNM DJITX CZKIO HJOYH KHUQV IQWED BCWMS ZEPQO ZRVXL TDYHV  
CRLKL WLYSP TRBVW EILOU QGPNL DZVXY MBOJR GVNWT RJQAK OLMRV NNDOQ WFLXI WVZRQ SFIVN VCEPI UVVHD CURSN  
GDBDM XZYWW KAXKD WAVLV HFUPX SIATU MQLUZ DMAKW YSNUV LRIKA IUULC KMCPK HRUIW BWPYN EJQUT SRVUM UGQVQ  
MRAXS VRANK JZFHN KBPCD FEYQI EYEU BMAJE GMKWW TBTUI JJQLA XHWIG DZONF LQDZT CMVKJ GMIDC BT



## ***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

### ***Messages:***

4225//5500 kHz, 01-10, 1345 UTC:

VVV UGT COMM BT 2878/2300/6NN 7918 AR  
VVV UGT COMM BT 2878/2300/N5 EEEE  
VVV UGT COMM BT 2878/2300/N5 EEEE  
UGT COMM BT 2878/2300/6/7 918 AR AR

4225//5500 kHz, 01-10, 1736 UTC:

9/2226  
MSG NR 02/CK CK 25 37 1002 0125 RMKS 8398 TO  
8391/2859/8648/2886/9098/2916/2969/2226 BT  
FM BT BT  
3046 50= 5N EEEE 30QTR BT BT  
3046 5N5N DTDN 3676 D57T 37ND A5NA 656A TANN TTUD  
6T4U U63D 6T36 D74T 63.5 UA63 6NUT D6N7 6A.. 76.6  
4D46 D3.T 7N.N DA3U D6TU AR  
V 7NPE 7NPE 7NPE DE QV5B QV5B  
UUGT COMM BT 2698/02.0/Z46/8398 AR  
VVV UGT COMM BT 298/8020/ EEEE BT  
UGT COMM BT 28/000/Z4/8398 AR  
VVV UGT COMM BT 28/00/Z4/98 AR  
V 7NPE 7NPE 7NPE DE QV5B QV5B

7582//8110 kHz, 03-10, 0114 UTC:

VVVV UGT COMM BT BT 2088/0930/Z46/8398 AR AR  
VVVV UGT COMM BT 2088/0930/Z46/8398 AR AR AR  
V 7NPE 7NPE 7NPE DE QV5B QV5B

4225//5500 kHz, 04-10, 1200 UTC:

VV 7G NR 06/CCK CK 25 37 10004 2000 RMKS 8398  
TO .647/2879/2820/2.75/2.58  
7G NR 06/CCK CK 25 37 2004 2000 RMKS 8398 TO 2647/2879 2EEEE  
7GN 97EEE 7GNR  
06 NR CK .K  
25 37 1004 2000 RMKS 8398 TO 2647/2879/2820/2475/2458 BT  
.... 3T5T NU4U U4.. (Cont'd)  
AR AR (1203z) (Return to R/S 1203z)  
V 7NPE 7NPE 7NPE DE QV5B QV5B  
VV UGT COMM BT 243./2035/Z.2/8398 AR (1206z)  
VV UGT COMM BT 2436/2035/Z42/8398 AR (1207z)  
V 7NPE 7NPE 7NPE DE QV5B QV5B



VVV UGT COMM BT  
VVV UGT COMM BT 2908/0300/9/7918 AR  
UGT COMM BT 2908/0300/9/7918 AR  
UGT COMM BT 2908/0300/9/7918 AR  
V 7NPE 7NPE 7NPE DE QV5B QV5B

MSGPBL NR 314 CK 95 55 0919 1600 RMKS 2328 TO 2412 R K  
VV = =  
4NA6 T57A U6D3 N3T5 7U4D A6U7 3T5D 6A3N U5N4 D47T

V 7NPE 7NPE 7NPE DE QV5B QV5B  
VV UGT COMM BT 2676/1005/Z46/8398 AR AR (x2)  
V 7NPE 7NPE 7NPE DE QV5B QV5B

V 7NPE 7NPE 7NPE DE QV5B QV5B  
HR CQ GA (x2) (1747z)  
7G/03/KCK CK 25 37 1008 0145 RMKS 8398 TO  
9098/29EEE4/EEE2147/2888/2838/8648/2248/2647  
NR 03//CK CK 25 37 1008 0145 RMKS 8398 TO  
9098/2964/2147/2888/2838/8648/2248/2647  
==  
U5.4 NDT. D674 7T53 .UDA 363A 4UUN A7UD TND AT4. .... (Cont'd)  
AR AR  
V 7NPE 7NPE 7NPE DE QV5B QV5B

VV VV UGT COMM BT 8671/2040/08/8398 AR  
VV VV UGT COMM BT 8671/2040/08/8398 AR  
VV VV UGT COMM BT 8671/2040/8 EEE  
VV VV UGT COMM BT 8671/2040/08/8398 AR  
VV VV UGT COMM BT 8671/2040/08/8398 AR AR AR  
V 7NPE 7NPE 7NPE DE QV5B QV5B

8457 87EE K K  
II III  
R MKS K K 87O4 8457 87O4 K K III III  
RI RMKS KK 87.4 8..457TO 77. ? K K  
87O4 TO 8457 TO 87O4 K K III ==  
65AD D4A7 36D5 3T5D A56T 34AD U7N3 7NU  
= 05 II R R N K MKS TO U ==  
NR 72.. 1.. CK 2. .. 77 DA. ..5 TIME 2330 RMKS KK 87O4 TT UU?  
R . RKMS R E ? RMKS KK 87O4 TO 8457 TO 87O4 K K III III ==  
65AD D4A7 36D5 3OEFI 3T5D A56T 34AD U7N3 7NU4 DU4T  
NU4T 6? 657N N36D AU3D 47U7 7TUN 6D4A .TN5 4... D3N4  
5ND3 I..  
PSE PSE AS K U. K NR  
II AR II AR  
NIL SK III



**M97**  
**Vietnamese numbers**

**Frequency: 10375 kHz**  
**Mode: Morse**

**10375 kHz, 15-10, 1500 UTC: 80 groups with pause after every 5 groups; repeats everything twice.**

AAAAA AAAAA AAAAA  
SD75 KKK SD75 KKK SD75 KKK  
HT HT HT SN80 SN80 SN80

73943	83767	67862	11203	46269	87099	4877.	32632	31306	63889
14017	37542	27792	94694	92031	20635	52465	30987	02658	52341
30218	79523	64431	06043	34750	83697	16674	02338	249.3	19775
85206	70351	97658	75300	70452	41860	67069	39781	12995	484.5
24242	75746	65962	89556	39325	40544	17032	72314	46282	46066
55374	19667	52299	96353	53284	88550	67574	87513	46262	98172
84535	95737	93573	82980	02537	35814	66603	15166	78595	89477
72214	74688	72794	96212	68616	38907	28714	29697	19966	31163
KKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK									

## VARIOUS MODES

### **Russian Government & Intelligence**

#### **M42, M42a & X06**



#### **Modes:**

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



8005 kHz, 02-10, 0801 UTC:	Russian diplo. Mode: CROWD-36
17451 kHz, 03-10, 0814 UTC:	Russian Gov. "W9AQK wkg ZJPL 7LZE NWBC JK5B" w/ith call-ups
10814 kHz, 06-10, 1345 UTC:	GRU HFDF net "vvv vvv vvv 3k ok "
15778 kHz, 12-10, 1150 UTC:	Russian Gov.: PGZ6
14439.5 kHz, 12-10, 1210 UTC:	Russian Gov.: NDWC: Russian gov. "PGZ6 PGZ6 DE NDWC NDWC QTN K"
16263 kHz, 14-10, 1100 UTC:	Russian Intel.
14483 kHz, 14-10, 1110 UTC:	Russian Intel.
12194 kHz, 14-10, 1120 UTC:	Russian Intel.
9292 kHz, 10-10, 1626 UTC:	GRU HFDF net "vvv vvv vvv 3k"
12169 kHz, 12-10, 0800 UTC:	Russian Intel. Mode: FSK 200/1000
12169 kHz, 17-10, 0700 UTC:	Russian Intel. Mode: FSK 200/1000
5844 kHz, 18-10, 1910 UTC:	Russian Gov/Intel. Mode: Baudot 200/500
8006 kHz, 18-10, 1900 UTC:	Russian Gov/Intel. Mode: Baudot 200/500
4633 kHz, 18-10, 1920 UTC:	Russian Gov/Intel. Mode: Baudot 200/500
16264 kHz, 20-10, 1100 UTC:	Russian Intel. Mode: FSK 200/1000
14483 kHz, 20-10, 1110 UTC:	Russian Intel. Mode: FSK 200/1000
12194 kHz, 20-10, 1120 UTC:	Russian Intel. Mode: FSK 200/1000
19526 kHz, 20-10, 1200 UTC:	Russian Intel. Mode: FSK 200/500 576 1 00000 +++++ +++++ 162
17463 kHz, 20-10, 1211 UTC:	Russian Intel. Mode: FSK 200/500 576 1 00000 +++++ +++++ 162
12198 kHz, 20-10, 0820 UTC:	Russian Intel. Mode: FSK 200/1000
16264 kHz, 21-10, 1100 UTC:	Russian Intel. Encrypted traffic. Mode: FSK 200/1000
14483 kHz, 21-10, 1110 UTC:	Russian Intel. Encrypted traffic. Mode: FSK 200/1000
12194 kHz, 21-10, 1120 UTC:	Russian Intel. Encrypted traffic. Mode: FSK 200/1000
14626 kHz, 21-10, 1540 UTC:	Russian Intel. Encrypted traffic. Mode: FSK 200/1000
12214 kHz, 21-10, 1550 UTC:	Russian Intel. Encrypted traffic. Mode: FSK 200/1000
12177 kHz, 22-10, 1248 UTC:	Mazielka. Sequence: 364152
20412 kHz, 23-10, 1356 UTC:	Russian Intel. Mode: FSK 50/500
20138 kHz, 23-10, 1417 UTC:	Russian Gov/Intel. "46464" call-up and "ntc ntc ntc qsp" ends "qru sk". Mode: Baudot 75/500
16317 kHz, 23-10, 1019 UTC:	Mazielka. Sequence: 612534
13507 kHz, 23-10, 1023 UTC:	Mazielka. Sequence: 612534
16317 kHz, 23-10, 1057 UTC:	Mazielka. Sequence: 612534
4633 kHz, 25-10, 1920 UTC:	Russian Intel. Mode: FSK 200/500. 00000+++++++162)5761 repeated
8007 kHz, 25-10, 1900 UTC:	Russian Intel. Mode: FSK 200/500. 00000+++++++162)5761 repeated
5844 kHz, 25-10, 1910 UTC:	Russian Intel. Mode: FSK 200/500. 00000+++++++162)5761 repeated
14683.5 kHz, 25-10, 1143 UTC:	Russian Gov. Mode: CROWD-36
17452.5 kHz, 25-10, 1151 UTC:	Russian Gov. Mode: CROWD-36
7482 kHz, 26-10, 1710 UTC:	Russian Gov/Intel. 30 blocks recorded commencing &x7d,12,b0,e6,00. Synchronous system measured at 200bps. Mode: FSK 200/1000
19526 kHz, 27-10, 1203 UTC:	Russian Intel. Mode: Baudot 200/500. 576 1 00000 +++++ +++++ 162
17463 kHz, 27-10, 1215 UTC:	Russian Intel. Mode: Baudot 200/500. 576 1 00000 +++++ +++++ 162

16060 kHz, 28-10, 1155 UTC:	Mazielka. Sequence: 261453
13415 kHz, 29-10, 0730 UTC:	Mazielka. Sequence: 123456
12264 kHz, 29-10, 1100 UTC:	Russian Intel. 58 numbered blocks &x-7d 12 b0 e6 00 01, 02, 03 etc. Mode: FSK 200/1000
14483 kHz, 29-10, 1110 UTC:	Russian Intel. 58 numbered blocks &x-7d 12 b0 e6 00 01, 02, 03 etc. Mode: FSK 200/1000
12194 kHz, 29-10, 1120 UTC:	Russian Intel. 60 numbered blocks &x-7d 12 b0 e6 00 01, 02, 03 etc. Mode: FSK 200/1000
8100 kHz, 29-10, 1120 UTC:	Mazielka. Sequence: 123456
14743 kHz, 30-10, 1400 UTC:	Russian Gov/Intel. 3 blocks repeated. Mode: FSK 200/1000
11116 kHz, 30-10, 1700 UTC:	Russian Gov/Intel. Series of 8 blocks of 3. Mode: FSK 200/1000
4665 kHz, 30-10, 1925 UTC:	Emercom (tentative). ATSETON-46 calling BANKET-46

Alex recorded the call on 4665 kHz. The recording is on the N&O website. He informs us that the station probably belongs to Emercom. Other callsigns heard on this frequency include GRANIT, MAYAK, VYSOTA. Try to listen to the radio-checks at 1815 UTC.

The Ministry of the Russian Federation for Affairs for Civil Defence, Emergencies and Elimination of Consequences of Natural Disasters (Russian: Министерство России по делам гражданской обороны, чрезвычайным ситуациям и ликвидации последствий стихийных бедствий), also known as The Ministry of Emergency Situations (Russian: Министерство по чрезвычайным ситуациям - МЧС России), or internationally as EMERCOM (derived from "Emergency Control Ministry"), was established on January 10, 1994 by President Boris Yeltsin.



### *XP family*

9362/8062/7462 kHz, 16-10, 1900/1920/1940 UTC.  
Message decoded with Rivet by Q:

Block Sync  
4444444444  
Block Sync  
304 304 304 1 304 304 304 1 304 304 304 1  
Block Sync  
4444444444  
Block Sync  
6  
Message Start  
00650 00081 57170 36611 04295 55374 09281 88160 02852  
13554 54532 52406 58298 76380 99701 50918 75730 51816  
91027 33902 75560 44307 55473 13044 9905 44333 41996  
8202 41004 46579 07088 999448 41637 02066 78561 66921  
88996 48049 21904 65163 15836 28006 63420 21511 41230  
33128 11138 31621 65660 08579 28822 8872922443376211  
79901 7952 96537 31279 80136 09975 74172 97507 14533  
33549  
Block Sync  
45469 11737 14488 39795 01791 85465 21471 45915 03477  
54784 25182 70238 30735 70518 42858 99288 77696 61405  
13835 74264

9362/8062/7462 kHz, 24-10, 1900/1920/1940 UTC:  
Message decoded with Rivet by Q:

Block Sync  
4444444444  
Block Sync  
304 304 304 000 304 304 304 000 304 304 304 000  
Block Sync  
4444444444  
Block Sync  
6  
Message Start  
05673 00001 00000 10140

9362/8062/7462 kHz, 30-10, 1900/1920/1940 UTC:

304 304 304 000 (R)  
04567 00001 00000 10140



***XSL a.k.a. Slot Machine***  
***Japan Maritime Self-Defense Force***  
**海上自衛隊 Kaijō Jieitai**

Daily on 4153, 4231.5, 6250, 5417, 6445, 8313, 8588, 8703.5 kHz.

Mode: QPSK 1500bd

Reportedly telemetry transmitted by the Japanese navy



**North Korean diplomatic stations**

Modes: DPRK-ARQ 600/600 and DPRK-ARQ 1200/1200

28055.7 kHz, 28-09, 1745 UTC: North Korean diplo traffic. Mode: DPRK-ARQ 1200/1200  
 16119.5 kHz, 16-10, 0805 UTC: MFA Pyongyang North Korea. Mode: DPRK-ARQ 600/600  
 20661.5 kHz, 16-10, 0755 UTC: MFA Pyongyang North Korea. Mode: DPRK-ARQ 600/600  
 16318.5 kHz, 16-10, 0746 UTC: MFA Pyongyang North Korea. Mode: DPRK-ARQ 600/600  
 19241.5 kHz, 16-10, 0846 UTC: MFA Pyongyang North Korea. Mode: DPRK-ARQ 600/600



**Egyptian diplomatic stations**

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

19253.6 kHz, 11-10, 0843 UTC: Egyptian diplo. Mode: Sitor-A  
 16161.7 kHz, 24-10, 1438 UTC: Egyptian diplo. Mode: Sitor-A/Codan  
 21178.7 kHz, 25-10, 1149 UTC: Egyptian MFA Cairo using SITOR-A on duplex link. Asking for QSY then calling "KKXR" Embassy Tunis). Then Codan 80bd Chirp "99901" (MFA) calling "33316" (Tunis), then into Codan 16 tone modem traffic  
 20256.7 kHz, 26-10, 0842 UTC: MFA Cairo using Codan 16 75Bd sending message to 99903 from 44405  
 20255 kHz, 26-10, 0847 UTC: MFA Cairo using ARQ 100/170 sending messages to unidentified embassy



**Indian diplomatic stations**

18725 kHz, 29-10, 1005 UTC, Mode: Baudot 50/850: MFA Delhi India. 8WD2 calling 8WA3 ry test message



**Unid Chinese net**

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

Eddy Waters, located in S. Australia, sent us several interesting logs of a presumed Chinese station/net, reportedly from Beijing. Possibly Chinese diplo or military stations. They are using a lot of frequencies and change frequency from time to time. Below the list that Eddy provided. The mode used is LSB 4+4 QPSK 75/3000, sometimes preceded by a voice callup in Chinese. A recording of several voice callups is available via the N&O website. Thanks goes to Eddy for making the recording.



10447.97 kHz, 11-10, 1121 UTC, mode: LSB 4+4 QPSK 75/3000

6768 8461 3607 0581 8205 5740 0849 7675 9042 6573  
1741 2493 0391 9183 2746 2684 5481 3250 5430  
CY HW ? QSL ?  
HR NR 84 TKS U HD WK PSE /\$  
)RIQHBTGO  
XYXYXYXYXYXY  
OK QSL IS 2011 TKS U HD WK NIL SK HW ? PSE /\$\*  
XYXYXYXYXYXY  
OK TKS U HD WK NIL SK AHR HR END GA GB  
ENDDDDQPC

21124.97 kHz, 12-10, 0900 UTC, mode: LSB 4+4 QPSK 75/3000

Voice callups in Chinese "This is 8069" and "This is 7468"; then into 4+4 traffic.

F GUIB GUIB GUIB DE HYET HYET HYET K QSA?  
F GUIB GUIB GUIB DE HYET HYET HYET K QSA?  
XYXYXYXYXY HR CY U QSA2-3 AHR EV MSG GA PSE AS  
XYXYXYXYXY HR CY U QSA2-3 AHR EV MSG GA PSE AS  
XYXYXYXYXY HR CY U QSA2-3 AHR EV MSG GA PSE AS  
XYXYXYXYXY HR EV MSG GA  
0496 29 18 1012 1716  
2391---9783  
3516 4907 9235 6798 2518 0472 7836 5790 9628 7582  
4056 8973 2901 9374 7239 8620 2657 9021 6584 8376  
5830 2304 6231 0268 4832 8769 9160 3197 8416  
XYXYXYXYXY CY HW? QSL?QSL?QSL?QSL?  
\*.3(  
XYXYXYXYXYXYXY AHR BOZ NIL SK HW?

10403.97 kHz, 13-10, 1210 UTC, mode: LSB 4+4 QPSK 75/3000

1868 0760 2646 8028 0908 9760 7381 9594 2198 6328  
7349 6810 9584 5323 0151 0127 1384 6464 4126 3679  
2127 2851 1832 6984 6950 4984 9430 8010 7412  
QSL ?  
XYXYXYXYXYXY CY HW ///JIA  
CALL2669  
=CGGE87158710 =CGGE87158710 =CGGE87158710 =CGGE87158710 =CGGE87158710 =CGGE87158710  
=CGGE87158710 =IUQP VCGGE87158710 =CGGE87158710  
=STOPSTOPSTOPSTOSTOPSTOPSTOP XYXYXYXYXYXYXY QSA3 QSA? ///+PSTOPSTOPR MSG GA PSE CY  
HR NR W  
7003---7006

8030.97 kHz, 25-10, 1154 UTC, mode: LSB 4+4 QPSK 75/3000

2045 4029 1287 8019 0697 8996 2057 2387 1087 1063  
4906 9815 693REOYEU QYWI WR  
2426 8957 4820 40QWETPEW QUYQ PEPIEETY ITER IEPO YRYW UTRI IEWQ  
0186 3897 3974 09QR RUYE QOUT  
IETQTI IUOT TWUW  
6768 8461 3607 0581 8205 5740 0849 7675PRW YTUE  
1741 2493 (391 9183 2746 2684 5481 3250 5430  
!CY HW ? QHR NR 84 TKS U HD WK QMQX OGBZDZQFE  
K  
XYXYXYQYXYXYE  
OK TKS U HD WK NIL SK PSE /\$)\$45TLLQ  
ENDDDDDDENDDDDENDDDDDDENDDDDDD  
PM H

=KCEH65305944 =KCEH65305944 =KNEH65305944 =KCEH65305944 =KCEH65305944 =KCEH6TORR VKCEH65305944  
 =KCEH65305944 =KCEH65305944  
 =KCEH65305944 =KCEH65305944 =KCEH65305944 =KCYTORR VKCEH65305944 =KCEH65305944 =KCEH65305944  
 =KCEH65305944 =KCEH65305944 =KCEH65305944 =KCEH65305944 =KCEH65305944 =KCEH653059 65305944  
 =KCEH65305944 =KCEH65305944  
 =KCEH65305944 STOPSTOPSTOP  
 STOP  
 XYXYXYXYXYXY  
 U GD QSA3 TKS /\$  
 XYXYXYXYXYXY

FREQUENCY	STATION	CALL	ITU	MODE	DATE	START	BAUD	HERTZ
6797,97	BEIJING		CHN	4+4 LSB	23-08-12	1106	75	3000
7679,97	BEIJING		CHN	4+4 LSB	20-09-12	1221	75	3000
7700,97	BEIJING		CHN	4+4 LSB	22-10-12	1056	75	3000
7776,97	BEIJING		CHN	4+4 LSB	22-10-12	1106	75	3000
7918,97	BEIJING		CHN	4+4 LSB	23-08-12	1220	75	3000
7949,97	BEIJING		CHN	4+4 LSB	26-08-12	1355	75	3000
8030,97	BEIJING	=KCEH65305944	CHN	4+4 LSB	29-10-12	1016	75	3000
8159,97	BEIJING		CHN	4+4 LSB	22-10-12	1113	75	3000
8181,97	BEIJING		CHN	4+4 LSB	23-08-12	1217	75	3000
9210,97	BEIJING		CHN	4+4 LSB	23-08-12	1220	75	3000
9272,97	BEIJING		CHN	4+4 LSB	23-08-12	1210	75	3000
9305,97	BEIJING		CHN	4+4 LSB	18-10-12	1048	75	3000
10112,97	BEIJING		CHN	4+4 LSB	23-08-12	1106	75	3000
10145,97	BEIJING		CHN	4+4 LSB	22-09-12	1115	75	3000
10169,97	BEIJING	BIKB46175397	CHN	4+4 LSB	29-08-12	1152	75	3000
10202,97	BEIJING	=XKGB76778377	CHN	4+4 LSB	11-10-12	1245	75	3000
10247,97	BEIJING		CHN	4+4 LSB	11-10-12	1122	75	3000
10265,97	BEIJING	=EKGB94446535	CHN	4+4 LSB	22-10-12	1205	75	3000
10277,97	BEIJING	=XKGB72350925	CHN	4+4 LSB	11-10-12	1236	75	3000
10334,97	BEIJING	=KCEC41063579	CHN	4+4 LSB	23-08-12	1123	75	3000
10340,97	BEIJING		CHN	4+4 LSB	25-09-12	1303	75	3000
10343,97	BEIJING	=XKGB26144804	CHN	4+4 LSB	16-10-12	1207	75	3000
10364,97	BEIJING	=CGGE56615658	CHN	4+4 LSB	16-10-12	1203	75	3000
10373,97	BEIJING		CHN	4+4 LSB	13-10-12	1210	75	3000
10376,97	BEIJING		CHN	4+4 LSB	09-09-12	1140	75	3000
10388,97	BEIJING		CHN	4+4 LSB	22-10-12	1140	75	3000
10397,97	BEIJING		CHN	4+4 LSB	27-08-12	1138	75	3000
10400,97	BEIJING		CHN	4+4 LSB	01-09-12	1147	75	3000
10403,97	BEIJING	=XKGB33236173	CHN	4+4 LSB	23-08-12	1210	75	3000
10421,97	BEIJING		CHN	4+4 LSB	23-08-12	1106	75	3000
10448,97	BEIJING	=KCEH52470000	CHN	4+4 LSB	11-10-12	1154	75	3000
10469,97	BEIJING		CHN	4+4 LSB	23-08-12	1017	75	3000
10472,97	BEIJING		CHN	4+4 LSB	23-09-12	1035	75	3000
10532,97	BEIJING		CHN	4+4 LSB	27-08-12	1135	75	3000
10547,97	BEIJING		CHN	4+4 LSB	27-09-12	1056	75	3000
10667,97	BEIJING	=CGGE87158710	CHN	4+4 LSB	23-08-12	1140	75	3000
10721,97	BEIJING	=BIKB46175394	CHN	4+4 LSB	22-09-12	1055	75	3000
10730,97	BEIJING		CHN	4+4 LSB	23-08-12	1045	75	3000
10766,97	BEIJING		CHN	4+4 LSB	16-10-12	923	75	3000
10772,97	BEIJING		CHN	4+4 LSB	23-08-12	1023	75	3000
10823,97	BEIJING		CHN	4+4 LSB	01-09-12	1151	75	3000
10826	BEIJING		CHN	4+4 LSB	13-10-12	1205	75	3000
10840,97	BEIJING		CHN	4+4 LSB	22-09-12	1050	75	3000

10865,97	BEIJING		CHN	4+4 LSB	23-08-12	1106	75	3000
10874,97	BEIJING		CHN	4+4 LSB	23-09-12	1120	75	3000
10886,97	BEIJING	=IDHB77307763	CHN	4+4 LSB	23-08-12	1137	75	3000
10952,97	BEIJING	=KCEH65305944	CHN	4+4 LSB	23-08-12	1155	75	3000
10982,97	BEIJING		CHN	4+4 LSB	23-08-12	1137	75	3000
10994,97	BEIJING		CHN	4+4 LSB	22-10-12	1117	75	3000
11010	BEIJING	=KCEC41603579	CHN	4+4 LSB	23-08-12	955	75	3000
11039,97	BEIJING	=XKGB82407980	CHN	4+4 LSB	24-09-12	1125	75	3000
11069,97	BEIJING		CHN	4+4 LSB	03-10-12	1205	75	3000
11081,97	BEIJING		CHN	4+4 LSB	21-09-12	1025	75	3000
11129,97	BEIJING		CHN	4+4 LSB	03-10-12	1145	75	3000
11144,97	BEIJING	VKCEH44453859	CHN	4+4 LSB	21-09-12	1000	75	3000
12177	BEIJING		CHN	4+4 LSB	08-09-12	1025	75	3000
13159,97	BEIJING	SZDE DE CQYV	CHN	4+4 LSB	27-08-12	1138	75	3000
13376,97	BEIJING		CHN	4+4 LSB	22-10-12	1147	75	3000
13428	BEIJING		CHN	4+4 LSB	09-09-12	1000	75	3000
13506	BEIJING		CHN	4+4 LSB	23-10-12	1115	75	3000
13892,97	BEIJING		CHN	4+4 LSB	26-09-12	1102	75	3000
13931,97	BEIJING		CHN	4+4 LSB	21-09-12	907	75	3000
13955,97	BEIJING		CHN	4+4 LSB	20-09-12	848	75	3000
14279,97	BEIJING		CHN	4+4 LSB	23-08-12	904	75	3000
14936,97	BEIJING	EXTW DE DYSJ	CHN	4+4 LSB	20-09-12	1108	75	3000
16373	BEIJING		CHN	4+4 LSB	06-09-12	1019	75	3000
16506	BEIJING		CHN	4+4 LSB	05-09-12	1216	75	3000
21124,97	BEIJING	PQLD KUMH	CHN	4+4 LSB	05-09-12	1216	75	3000
21254,97	BEIJING	JRSH DVPS	CHN	4+4 LSB	25-09-12	1222	75	3000
8030,97	BEIJING		CHN	4+4 LSB	25-10-12	1159	75	3000



#### Distortion Measuring Set

Atlantic Research Corporation's distortion measuring set was used to analyze the percentage of distortion on a communications circuit in Bangkok. This unit is dated "9 July 1969." At that time, Bangkok Bureau was located in its first office on Soi 39.

Picture and info by the Central Intelligence Agency

## UTILITY ROUND-UP



### Unid stations

The unid pip/burst on 5207 kHz seems to be a pilot tone for a short data burst that follows after every pip. The mode is still not known. When you shift to 5206 kHz USB you can hear burst better than on 5207 kHz. Token mailed us that the burst appears to be about 2600 Hz wide, going from 5206.3 to 5208.9. If the pip is a pilot tone for the burst it would be about 1450 Hz when tuned to 5206 kHz.

A signal check around the globe at 2100 UTC gives the following result:

The signal strength is loud and clear in Hong Kong; in Sydney audible but faint; Mohave Desert (CA, USA) a bit louder than in Sydney; in The Netherlands good audible but weak; no signal in Johannesburg (South Africa). The station is most likely located in the Eastern part of Asia.

5207 kHz, 01-10, 1306 UTC

5207 kHz, 03-10, 1743 UTC

5207 kHz, 07-10, 1618 UTC

5207 kHz, 01-10, 2207 UTC

5207 kHz, 05-10, 1846 UTC

5207 kHz, 13-10, 1145 UTC

5207 kHz, 02-10, 2016 UTC

5207 kHz, 07-10, 1342 UTC

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Tony copied the following CW transmission in the UK. Probably a Russian station.

5370 kHz, 19-10-2012, 1927 UTC, CW

6XI3 12 1320 126

118

0( - - - - - )613 07525 83520 06635 07065

24455 76334 34016 01108 73160

31771 03871 85022 72830 19015

118

6XI3 QRV

BK

AA

DGGNW

6XI3 OK

RPT AL QLN

The first group is a weird one to me, Tony says. It is 5 dashes, 2 dots as shown in the brackets. The final 118 is a guess as an amateur was breaking through from 5374

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## Pirates

On 23 October between ca. 1930 and 2030 UTC a pirate station who called himself Echo 1 transmitted music on 6715 kHz. In between the music, he paused and transmitted the following CW message:

“GREETINGS TO ARY BOENDER FROM ECHO\_ONE”

Thanks OM, whoever you are ☺



## Tакси Taxi

A large amount of Russian / CIS / Ukrainian taxi dispatchers were reported in September and October. They were copied on the following frequencies. Thanks to the dxers who submitted the frequencies.

21392	28165	28285	28645	28850	28980	29130	29385
28000	28170	28295	28650	28855	28985	29135	29395
28005	28175	28300	28655	28855	28995	29155	29400
28015	28180	28305	28665	28865	29005	29165	29405
28055	28185	28315	28675	28875	29015	29175	29410
28065	28195	28325	28695	28885	29035	29195	29425
28075	28200	28355	28700	28890	29045	29205	29435
28085	28205	28365	28725	28895	29050	29215	29440
28090	28210	28380	28735	28905	29055	29220	29450
28105	28215	28385	28745	28915	29065	29225	29455
28115	28225	28390	28755	28925	29085	29230	29465
28120	28235	28400	28765	28930	29090	29250	29475
28135	28245	28555	28795	28935	29095	29255	29525
28140	28250	28575	28810	28940	29100	29305	29545
28145	28254	28595	28815	28945	29105	29315	29575
28150	28255	28605	28825	28950	29110	29320	29695
28155	28265	28625	28830	28955	29120	29325	
28160	28275	28635	28835	28975	29125	29350	



## *Intelligence profile:* **Austria**



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### **BACKGROUND**

Once the center of power for the large Austro-Hungarian Empire, Austria was reduced to a small republic after its defeat in World War I. Following annexation by Nazi Germany in 1938 and subsequent occupation by the victorious Allies in 1945, Austria's status remained unclear for a decade. A State Treaty signed in 1955 ended the occupation, recognized Austria's independence, and forbade unification with Germany. A constitutional law that same year declared the country's "perpetual neutrality" as a condition for Soviet military withdrawal. The Soviet Union's collapse in 1991 and Austria's entry into the European Union in 1995 have altered the meaning of this neutrality. A prosperous, democratic country, Austria entered the EU Economic and Monetary Union in 1999

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### **GENERAL**

Country name: Republik Österreich (Republic of Austria)  
Short name: Republik Österreich (Austria)  
Capital: Wien (Vienna)  
9 Bundesländer: Burgenland, Karnten, Niederösterreich, Oberösterreich, Salzburg, Steiermark, Tirol, Vorarlberg, Wien

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### **MILITARY**

Land Forces (KdoLdSK), Air Forces (KdoLuSK)

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### **INTELLIGENCE & SECURITY AGENCIES**

Bundesministerium für Inneres (BMI) / Ministry of the Interior

- Generaldirektion für die Öffentliche Sicherheit / General Directorate for Public Security
- Bundeskriminalamt (BK) / Federal Criminal Police Office
- Sondereinheit für Observation (SEO) / Special Unit for Observation
- Bundesamt für Verfassungsschutz und Terrorismusbekämpfung (BVT) / State Offices for the Protection of the Constitution and Counter-Terrorism
- Bundespolizei / Federal Police
- Einsatzkommando Cobra

Bundesministerium für Landesverteidigung und Sport

- Abwehramt / Military Protective Office
- Heeresnachrichtenamt (HNA) / Army Intelligence Office
- Nachrichtendienstliche Abwehr / Army Counterintelligence Service

Bundesministerium für Finanzen & Zoll / Federal Ministry of Finance & Customs

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### **Austria, Intelligence and Security**

Following World War II, Austria faced the monumental task of restructuring its national government and intelligence forces. The Nazi government before and during the war substantially increased the nation's intelligence service, but post-war Austria sought to distance itself from the Nazi legacy. The intelligence system was reformed wholly, along with the nation's extensive police and security forces. Because of its central geographic location, post-war Austrian military intelligence agencies played a crucial role in signals intelligence during the Cold War. Intelligence and security forces in Austria follow the traditional division

between military and civilian, domestic and foreign intelligence agencies. The individual military services and the Ministry of Defense supervise military agencies; the Ministry of Interior regulates civilian intelligence agencies and police forces. The main units of the military intelligence force are the Abwehramt and the Nachrichtendienste des Bundesheeres. Both agencies primarily focus on external intelligence, often working with Austrian civilian and international intelligence agencies. Austria's premier civilian intelligence agency is the Generaldirektion für die Öffentliche Sicherheit. The agency coordinates domestic intelligence operations and assesses internal national security risks. The Bundespolizei is the main national police force. (Source: Internet FAQ Archives)

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#### ***Bundesministerium für Inneres (BMI)***

The BMI has four sections. Section II is the security section.

Sektion I (Präsidium), Sektion II (GDfsÖS), Sektion III (Recht), Sektion IV (Service und Kontrolle) Sektion I (Bureau), Section II (GDfsÖS), Section III (Legal), Section IV (service and control)

Under Sektion II: Generaldirektion für die öffentliche Sicherheit you will find the security related agencies and directorates, amongst others:

1. Bundeskriminalamt (BK)
  2. Sondereinheit für Observation (SEO)
  3. Bundesamt für Verfassungsschutz und Terrorismusbekämpfung (BVT)
  4. Bundespolizei
  5. Einsatzkommando Cobra
- 

#### ***Bundeskriminalamt***

The BK was created in 2002 as a federal police force to effectively combat crime nationwide and to perform international police cooperation functions. The main missions of the BK are international cooperation, investigations, crime prevention and collating crime statistics. It is Austria's national central bureau for the European Police Office (Europol), Schengen Information System and International Criminal Police Organization (Interpol). The BK is subordinate to the Generaldirektion für die Öffentliche Sicherheit. It is therefore not directly linked with the Federal Police, which is a separate organization.

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#### ***Sondereinheit für Observation (SEO)***

The SEO is a special unit of the Austrian police, founded on July 1st, 1998. The SEO reports to the Director of the Bundeskriminalamt. It is responsible for the implementation of optical or acoustic monitoring and surveillance and communications interception. Directorates: Security Directorate Burgenland, Security Directorate Carinthia, Security Directorate Lower, Security Directorate Upper, Security Directorate Salzburg, Security Directorate Styria, Security Directorate Tirol, Security Directorate Vorarlberg, Vienna Federal Police Directorate

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#### ***Bundesamt für Verfassungsschutz und Terrorismusbekämpfung***

The BVT protects constitutional institutions of the Republic of Austria and their ability to act. It is responsible for cooperation with foreign security agencies and intelligence services. Legally, it is organized under the General Directorate of Public Security. It consists of a management area (Director, Deputy Secretary, Office International Relations and Information Management Unit) and three departments. The core functions of the BVT include the fight against extremist and terrorist phenomena, espionage, international arms trafficking, trafficking in nuclear materials and organized crime.

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***Einsatzkommando Cobra*** is an anti-terrorist task force.

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#### ***Bundesministerium für Finanzen & Zoll***

The core responsibilities of the Austrian Customs Administration are promoting the economy and facilitating international trade. The Customs Administration is a member of the European Customs Union. The tax and customs authorities of the Federal Ministry of Finance protect the financial interests of the public sector to prevent losses to the national economy. Their activities include checks aimed at safeguarding public health and safety, customs clearance of goods, collecting community duties and charges, protection of species, and combating fiscal evasion, black labour and smuggling.

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### **Bundespolizei**

The Federal Gendarmerie, the Federal Police, the CID, and parts of the former customs service, have been merged into the new Bundespolizei, the Austrian Federal Police. In each federal province, there is one Provincial Police Command (Landespolizeikommando). On the next level, there are District Police Commands (Bezirkskommanden) and Municipal Police Commands (Stadt polizeikommanden). At local level there are Police Stations (Polizei inspektionen) and specialised units (e.g. Border Police Stations, Police Dog Units, River and Lake Police Units, Police Detention Centres). The Police Command of the Federal Province of Vienna differs in size and scope of responsibilities from the other eight Provincial Police Commands.

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### **Abwehramt**

The AWA prevents electronic attacks on military security systems in Austria. It obtains information about intentional attacks against life and health of personnel, infrastructure and systems.

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### **Nachrichtendienste des Bundesheeres**

The Nachrichtendienste researches information on military operations and projects abroad and conducts data analysis of the collected intelligence. The service maintains branch offices in Linz, Graz and Klagenfurt. The Nachrichtendienste has SIGINT stations in Königswarte and Neulengbach in Niederösterreich, Kolomannsberg in Oberösterreich, Koralpe in southern Austria.

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

BMI	<a href="http://www.bmi.gv.at">http://www.bmi.gv.at</a>
BMI Sektion II	<a href="http://www.bmi.gv.at/cms/BMI_Geschaftseinteilung/sektion_2/start.aspx">http://www.bmi.gv.at/cms/BMI_Geschaftseinteilung/sektion_2/start.aspx</a>
Bundeskriminalamt	<a href="http://www.bmi.gv.at/cms/bk/">http://www.bmi.gv.at/cms/bk/</a>
BVT	<a href="http://www.bmi.gv.at/cms/bmi_verfassungsschutz/">http://www.bmi.gv.at/cms/bmi_verfassungsschutz/</a>
Finanzministerium	<a href="http://www.bmf.gv.at">http://www.bmf.gv.at</a>
Bundespolizei	<a href="http://www.bundespolizei.gv.at">http://www.bundespolizei.gv.at</a>
Österreichs Bundeswehr	<a href="http://www.bmlv.gv.at">http://www.bmlv.gv.at</a>
AWA	<a href="http://www.bmlv.gv.at/organisation/beitraege/n_dienste/index.shtml">http://www.bmlv.gv.at/organisation/beitraege/n_dienste/index.shtml</a>
FAQ Archives	<a href="http://www.faqs.org/espionage">http://www.faqs.org/espionage</a>
Europol	<a href="https://www.europol.europa.eu/content/memberpage/austria-791">https://www.europol.europa.eu/content/memberpage/austria-791</a>

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### **Intelligence profile:** **Germany**



### **BACKGROUND**

As Europe's largest economy and second most populous nation (after Russia), Germany is a key member of the continent's economic, political, and defense organizations. European power struggles immersed Germany in two devastating World Wars in the first half of the 20th century and left the country occupied by the victorious Allied powers of the US, UK, France, and the Soviet Union in 1945. With the advent of the Cold War, two German states were formed in 1949: the western Federal Republic of Germany (FRG) and the eastern German Democratic Republic (GDR). The democratic FRG embedded itself in key Western economic and security organizations, the EC, which became the EU, and NATO, while the Communist GDR was on the front line of the Soviet-led Warsaw Pact. The decline of the USSR and the end of the Cold War allowed for German unification in 1990.

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## GENERAL

Country name: Bundesrepublik Deutschland (Federal Republic of Germany)  
Short name: Deutschland (Germany)  
Capital: Berlin  
16 Bundesländer: Baden-Württemberg, Bayern, Berlin, Brandenburg, Bremen, Hamburg, Hessen, Mecklenburg-Vorpommern, Niedersachsen, Nordrhein-Westfalen, Rheinland-Pfalz, Saarland, Sachsen, Sachsen-Anhalt, Schleswig-Holstein, Thuringen

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## MILITARY

Federal Armed Forces (Bundeswehr): Army (Heer), Navy (Deutsche Marine, includes naval air arm), Air Force (Luftwaffe), Joint Support Services (Streitkräftebasis), Central Medical Service (Zentraler Sanitätsdienst)

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## INTELLIGENCE & SECURITY AGENCIES

Former intelligence agencies:

- Abwehr
- Geheimes StaatsPolizei (Gestapo) / Secret State Police Office
- Wachtregiment Feliks E. Dzierzynski / Felix Dzerzhinsky Watch Regiment
- Hauptverwaltung Aufklärung (HvA) / General Reconnaissance Administration
- Sicherheitsdienst (SD) / Security Service
- Ministerium für Staatssicherheit (Stasi) / Ministry for State Security
- The Zentrum für Nachrichtenwesen der Bundeswehr (ZNBw) / Center for Intelligence of the Armed Forces

Current intelligence agencies:

- Bundesnachrichtendienst (BND) / Federal Intelligence Service
  - Militärischer Abschirmdienst (MAD) / Military Counter-intelligence Service
  - Bundesamt für Verfassungsschutz (BfV) / Federal Office for the Protection of the Constitution
  - Landesbehörden für Verfassungsschutz (LfV) / State Offices for the Protection of the Constitution
  - Zollkriminalamt (ZKA) / Customs Investigation Bureau
  - Bundesamt für Sicherheit in der Informationstechnik (BSI) / Federal Office for Information Security
  - Bundeskriminalamt (BKA) / Federal Criminal Police Office
  - Der Bundesbeauftragte für die Stasi-Unterlagen (BStU) / The Federal Commissioner for the Stasi Archives
- 

### Abwehr

The Abwehr was a German military intelligence (information gathering) organization from 1921 to 1944. The term Abwehr (German for defence) was used as a concession to Allied demands that Germany's post-World War I intelligence activities be for "defensive" purposes only. After 4 February 1938, its name in title was Foreign Affairs/Defence Office of the Armed Forces High Command (Amt Ausland/Abwehr im Oberkommando der Wehrmacht).

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### Geheimes StaatsPolizei (Gestapo) / Secret State Police Office

The official secret police of Nazi Germany and the NSDAP. Its name came from the official abbreviation of "Geheimes StaatsPolizei (GeStaPo)". Under the overall administration of the Schutzstaffel (SS), it was administered by the RSHA - Reichssicherheitshauptamt and was considered a dual organization of the SD - Sicherheitsdienst (Security Service) and also a suboffice of the SIPO - Sicherheitspolizei (Security Police).

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### Wachtregiment Feliks E. Dzierzynski / Felix Dzerzhinsky Watch Regiment

The regiment was an elite motorized rifles regiment under the command of the Stasi. It was named in honor of Felix Dzerzhinsky, founder of the Soviet secret police. It was tasked with protecting government and party buildings in the DDR capital of East Berlin and the security of the party leaders' residential compound in Wandlitz, near East Berlin.

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### *Hauptverwaltung Aufklärung (HvA) / General Reconnaissance Administration*

The HvA was the foreign intelligence service of the DDR and was an integral part of the Stasi, the East German Ministerium für Staatssicherheit / MfS (Ministry of State Security). The HvA was well known and feared for its excellent espionage capabilities by human intelligence (HUMINT) with an enormous number of agents operating in the West.

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### *Sicherheitsdienst (SD) / Security Service*

Primarily the intelligence service of the SS and the NSDAP. It was the first Nazi Party intelligence organization to be established and was often considered a sister organization with the Gestapo.

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### *Ministerium für Staatssicherheit (Stasi) / Ministry for State Security*

The MfS / Stasi was the official secret police of East Germany. After the dissolving of the German Democratic Republic, it became clear that the Stasi SIGINT directorat HA III had 25 departments, over 2000 staff officers and some 80 installations in East Germany. They monitored shortwave transmissions and more than 30,000 West German telephones from military, diplomatic and intelligence personnel from both West Germany and NATO. They eavesdropped on radio signal paths (telephone) used by the Federal Post Office, and on VHF radios of the BND (West German intelligence) surveillance teams. Virtually all West German satellite-based telephone, Telex, fax, and data transmissions were monitored.

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*Der Bundesbeauftragte für die Stasi-Unterlagen (BStU) / The Federal Commissioner for the Stasi Archives* is an upper-level federal agency of Germany that preserves and protects the archives and investigates the past crimes of the former Stasi, the secret police and intelligence organization of the communist German Democratic Republic (East Germany)

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*The Zentrum für Nachrichtenwesen der Bundeswehr (ZNBw) / Center for Intelligence of the Armed Forces* was the central military intelligence agency, resolved on 31 Dec. 2007. It was located on Gelsdorf near Bonn.

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### *Bundesnachrichtendienst (BND) / Federal Intelligence Service*

The BND) is the foreign intelligence agency of Germany, directly subordinated to the Chancellor's Office. Its headquarters are in Pullach near Munich, and Berlin (planned to be centralised in Berlin by 2014). The BND has 300 locations in Germany and foreign countries.

The BND acts as an early warning system to alert the German government to threats to German interests from abroad. It depends heavily on wiretapping and electronic surveillance of international communications. It collects and evaluates information on a variety of areas such as international terrorism, weapons of mass destructions proliferation and illegal transfer of technology, organized crime, weapons and drug trafficking, money laundering, illegal migration and information warfare. As Germany's only overseas intelligence service, the BND gathers both military and civil intelligence. However, the Kommando Strategische Aufklärung (Strategic Reconnaissance Command) of the German Armed Forces also fulfills this mission, but is not an intelligence service. There is close cooperation between the BND and the Kommando Strategische Aufklärung.

The domestic secret service counterparts of the BND are the Bundesamt für Verfassungsschutz (Federal Office for the Protection of the Constitution, BfV) and 16 counterparts at the state level Landesämter für Verfassungsschutz (State Offices for the Protection of the Constitution); there is also a separate military intelligence organisation, the Militärischer Abschirmdienst.

The predecessor of the BND is the German eastern military intelligence agency during World War II, the Abteilung Fremde Heere Ost or FHO Section in the General Staff, led by Wehrmacht Major General Reinhard Gehlen. Its main purpose was to collect information on the Red Army. In 1946 Gehlen set up an intelligence agency informally known as the Gehlen Organization or simply "The Org" and recruited, initially quite modestly, some of his former co-workers, operatives of Wilhelm Canaris' Abwehr, but he also recruited from the former Sicherheitsdienst, SS and Gestapo. The organization worked almost exclusively for the CIA, which contributed funding, equipment, cars, gasoline and other materials. On 1 April 1956 the Bundesnachrichtendienst was created from the Gehlen Organization, and transferred to the West German government. Reinhard Gehlen became President of the BND and remained its head until 1968.

Since 2009 the Bundesnachrichtendienst is divided into the following directorates:

1. Gesamtlage / Führungs- und Informationszentrum (GL) (Situation Centre)
2. Unterstützende Fachdienste (UF) (Specialized Supporting Services)



3. Einsatzgebiete / Auslandsbeziehungen (EA) (Areas of Operation / Foreign Liaison)
  4. Technische Aufklärung (TA) (Signal Intelligence)
  5. Regionale Auswertung und Beschaffung A (LA) und Regionale Auswertung und Beschaffung B (LB) (Regional Analysis and Procurement, A/B countries)
  6. Internationaler Terrorismus und Internationale Organisierte Kriminalität (TE) (Terrorism and International Organised Crime)
  7. Proliferation, ABC-Waffen, Wehrtechnik (TW) (Proliferation, NBC Weapons)
  8. Eigensicherung (SI) (Security)
  9. Technische Unterstützung (TU) (Technical Support)
  10. Technische Entwicklung (TK) (Technical Development)
  11. Zentralabteilung (ZY) (Central Services)
  12. Gesamtumzug (UM)
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#### *Militärischer Abschirmdienst (MAD) / Military Counter-intelligence Service*

The MAD or more officially Amt für den Militärischen Abschirmdienst (in the past Amt für die Sicherheit der Bundeswehr), is one of the three federal intelligence agencies in Germany, responsible for military counterintelligence. Its headquarter is in Cologne, with 12 groups located in cities throughout Germany. Those MAD groups are collectively known to be the Militärischer Abschirmdienst. The legal basis for the MAD is the MAD Law of 1990-12-20,[1] as amended by Article 8 of the law of 2005-04-22

The MAD is part of the Bundeswehr, the German armed forces. As a domestic intelligence service, it has similar functions, within the military, and works closely together with the Bundesamt für Verfassungsschutz. The main duties of the MAD are counterintelligence and detection of "anticonstitutional activities" within the Bundeswehr. Other duties include the protection of Bundeswehr properties from sabotage and foreign espionage. Members of the MAD are also involved in planning and construction of buildings with high security requirements. The MAD has no prosecution power. The lead agency for the German military intelligence operations as well as strategic defense-related intelligence is the ministry of defense in Berlin.

#### Organization:

1. Department for administrative affairs
  2. Department I: Central services
  3. Department II: Counter-extremism & counter-terrorism
  4. Department III: Counterespionage & operative security
  5. Department IV: Protection of secrets (personnel and material)
  6. Department V: Technology
  7. The 12 regional offices are in: Amberg, Hannover, Hilden, Kiel, Koblenz, Leipzig, Mainz, Munich, Rostock, Schwielowsee, Stuttgart, Wilhelmshaven
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#### *Bundesamt für Verfassungsschutz (BfV) / Federal Office for the Protection of the Constitution* *Landesbehörden für Verfassungsschutz (LfV) / State Offices for the Protection of the Constitution*

The BfV is Germany's domestic intelligence agency. Together with the Landesämter für Verfassungsschutz (LfV) on state-level it is tasked with intelligence-gathering on threats concerning the democratic order, the existence and security of the federation or one of its states, and the peaceful coexistence of peoples; with counter-intelligence; and with protective security and counter-sabotage. The BfV reports to the Federal Ministry of the Interior.

The BfV is controlled by the Federal Minister of the Interior as well as the Bundestag, the Federal Commissioner for Data Protection and other federal institutions. The Federal Minister of the Interior is in administrative and functional control of the BfV. Parliamentary control is exercised by the Bundestag in general debate, question times and urgent inquiries, as well as by its committees, most notably the Parliamentary Control Commission and the G10 Commission. The BfV is also under judicial control and all its activities can be legally challenged in court. Based on the right of information, the general public can direct inquiries and petitions at the BfV.

The BfV, is based at Cologne. It is headed by a President and a Vice-President and organised in eight departments:

1. Department Z - Administration
2. Department IT - IT and operational intelligence technology
3. Department 1 - Central services and support
4. Department 2 - Extremism (left- and right-wing)
5. Department 4 - Counter-espionage, protective security and counter-sabotage

6. Department 5 - Security threats posed to by foreign extremists or from abroad
7. Department 6 - Islamic extremism and terrorism

While the BfV uses all kinds of surveillance technology and infiltration, they mostly use open sources. The BfV publishes a yearly report (Verfassungsschutzbericht) which is intended to raise awareness about anti-constitutional activities.

Main concerns of the BfV are:

1. Left-wing political extremists, platforms, movements and parties, notably certain factions within Die Linke, as well as other smaller parties and groups preaching communism
2. Right-wing political extremists (mainly Neo-Nazis, including the NPD, DVU political parties and smaller groups preaching Nazism, fascism, racism and xenophobia).
3. Extremist organisations of foreigners living in Germany (most prominently Islamist terrorists).
4. Scientology (considered by the German government an authoritarian, anti-democratic commercial organization rather than a religion).
5. Organised crime is also mentioned as a threat to democracy, law and order, and free enterprise in the country's business economic system.

Some of the BfV organisations have been given additional tasks by specific laws, such as the protection of government-related classified information, the monitoring of foreign secret services, or the monitoring of organised crime.

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#### ***Zollkriminalamt (ZKA) / Customs Investigation Bureau***

The German Zollkriminalamt and its investigation offices are federal agencies that fall under the German Finance Ministry. The ZKA coordinates customs investigations nationwide in particular monitoring foreign trade, uncovering violations of EU market regulations, illegal technology exports, subsidy fraud in the agricultural sector, drug trafficking and money laundering. In reaction to increasing violence, its Zentrale Unterstützungsgruppe Zoll (ZUZ) was formed in 1997 as the customs SWAT team for use when regular officers would be in too much danger.

The Customs Investigation Offices (Zollfahndungsamt, ZFA) are directly integrated into the ZKA. There are currently eight ZFAs in Berlin, Dresden, Essen, Frankfurt am Main, Hamburg, Hanover, Munich and Stuttgart, with 24 branches. They are subdivided into functional areas and investigate embargo contraventions, violations of market regulations, tax evasion and trademark violations. In addition, they have formed many joint task forces with the German Federal Police and State police forces to combat drug smuggling and international money laundering.

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#### ***Bundesamt für Sicherheit in der Informationstechnik (BSI) / Federal Office for Information Security***

The BSI is the German government agency in charge of managing computer and communication security for the German government. Its areas of expertise and responsibility include the security of computer applications, critical infrastructure protection, Internet security, cryptography, counter eavesdropping, certification of security products and the accreditation of security test laboratories. It is located in Bonn. BSI's predecessor was the cryptographic department of the BND. BSI still designs cryptographic algorithms such as the Libelle cipher.

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#### ***Bundeskriminalamt (BKA) / Federal Criminal Police Office***

The BKA is a national investigative police agency in Germany and falls directly under the Federal Ministry of the Interior. As law enforcement in Germany is vested in the states, the BKA only becomes involved in cases of international organised crime or when requested by the respective federal state authorities or the federal minister of the interior. The federal prosecutor can also direct it to investigate cases of special public interest.

Its responsibilities are the coordination of law enforcement in cooperation with criminal investigation bureaus of the individual states of Germany (Landeskriminalämter) and to conduct investigations in serious crimes, especially when other countries are involved. It is headquartered in Wiesbaden and occupies three different locations in the city, one of which is the former Lindsey Air Station. Outside of Wiesbaden, the BKA has branch offices in Berlin, Bonn and Meckenheim.

The BKA's missions include:

1. Coordinating cooperation between the federation and state police forces (especially the Landeskriminalämter) and with foreign investigative authorities.
2. Collecting and analyzing criminal intelligence, managing the INPOL database of all important crimes and criminals.
3. Investigating cases of terrorism or other areas of political motivated crime, as well as narcotics, weapons and financial/economical crime.
4. Protection of federal witnesses.
5. Acting as a clearing house for identifying and cataloging images and information on victims of child sexual exploitation, similar to the National Center for Missing & Exploited Children in the United States.

6. The BKA provides assistance to the states in forensic matters, research and organized crime investigations. It is Germany's national central bureau for the European Police Office (Europol), Schengen Information System, the German criminal AFIS and International Criminal Police Organization (Interpol).
7. The DVI-Team (in German: Identifizierungskommission or more common IDKO) is an event driven organisation of mainly forensic specialists dedicated to identification of disaster victims. The DVI's lineup of past missions include several air-plane crashes, the Eschede train disaster and the 2004 Indian Ocean earthquake.
8. The Close Protection Group protects the members of Germany's constitutional bodies and their foreign guests of state and is often the most visible part of the BKA. Specially selected and trained officers with special equipment and vehicles provide round-the-clock personal security to those they protect. The Protection Group is now headquartered in Berlin.

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## RELATED NUMBERS STATIONS

### SOURCES / RELATED WEBSITES / FURTHER INFORMATION

CIA World Factbook

Wikipedia

Berlin Wiki Archive <http://berlin-archive.wikidot.com/german-intelligence>

Geheimdienste.org <http://www.geheimdienste.org>

BND <http://www.bnd.bund.de>

MAD <http://www.mad.bundeswehr.de>

BfV <http://www.verfassungsschutz.de>

BKA <http://www.bundeskriminalamt.de/>

BSI <https://www.bsi.bund.de>

ZKA <http://www.zoll.de>

BStU <http://www.bstu.bund.de>

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## Intelligence profile: Spain



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## BACKGROUND

Spain's powerful world empire of the 16th and 17th centuries ultimately yielded command of the seas to England. Subsequent failure to embrace the mercantile and industrial revolutions caused the country to fall behind Britain, France, and Germany in economic and political power. Spain remained neutral in World Wars I and II but suffered through a devastating civil war (1936-39). A peaceful transition to democracy following the death of dictator Francisco FRANCO in 1975, and rapid economic modernization (Spain joined the EU in 1986) gave Spain a dynamic and rapidly growing economy and made it a global champion of freedom and human rights. The government's major focus for the immediate future will be on measures to reverse the severe economic recession that started in mid-2008

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## GENERAL

Country name: Reino de España (Kingdom of Spain)

Short name: España (Spain)

Capital: Madrid

17 autonomous communities: Andalucía, Aragón, Asturias, Baleares, Canarias, Cantabria, Castilla-La Mancha, Castilla y León, Cataluña, Comunidad Valenciana, Extremadura, Galicia, La Rioja, Madrid, Murcia, Navarra, País Vasco

2 autonomous cities: Ceuta, Melilla

Note: The autonomous cities of Ceuta and Melilla plus three small islands of Islas Chafarinas, Penon de Alhucemas, and Penon de Velez de la Gomera, administered directly by the Spanish central government, are all along the coast of Morocco and are collectively referred to as Places of Sovereignty (Plazas de Soberanía)

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## MILITARY

Spanish Armed Forces: Army (Ejército de Tierra), Spanish Navy (Armada Española, AE; includes Marine Corps), Spanish Air Force (Ejército del Aire Español, EdA)

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## INTELLIGENCE & SECURITY AGENCIES

La Oficina Nacional de Seguridad (ONS) / National Office of Security

Centro Superior de Información de la Defensa (CESID) / Superior Center of Defense Information

Centro Nacional de Inteligencia (CNI) / National Intelligence Center

Centro de Inteligencia de las Fuerzas Armadas (CIFAS) / Center of Intelligence of the Armed Forces

Ertzaintza / Public Guard

Centro Criptológico Nacional / National Cryptologic Centre

Guardia Civil / Civil Guards

Mossos d'Esquadra / Troopers

Cuerpo Nacional de Policía (CNP)

Secretaría de Estado de Seguridad / State Secretariat for Security

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The *Secretaría de Estado de Seguridad* in the Ministry of Interior oversees the internal security and law enforcement agencies.

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*Centro Superior de Información de la Defensa (CESID)* was the Spanish intelligence agency before the current *Centro Nacional de Inteligencia (CNI)* took over as its successor in 2002. The CNI is the Spanish official intelligence agency. Its headquarters are located along the A-6 motorway near Madrid. Its main target areas are North Africa and South America and it operates in more than 80 countries. The Secretary of State is also Director of the CNI.

The CNI's essential goal is to give the Spanish Government all the necessary information to prevent, and given the case, to avoid any risk or menace that affects the independence or integrity of Spain, its national interests, as well as the rule of law and its institutions. In the same way, the law states that the specific goals of the CNI will be determined and approved yearly by the Council of Ministers. These goals will be included in a secret document, the Intelligence Guidelines.

Besides this organic control of the Center by the Ministers Council, there is also a judiciary control, given the fact certain activities require such intervention. This control is carried out by a judge of the Spanish Supreme Court, chosen by a qualified majority. In this sense, those actions requiring previous authorization by the court are those regarding communications interdiction, entry and registration at home or enterprise addresses, or any other would-be violations of the fundamental rights granted by the Spanish Constitution of 1978.

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The *Oficina Nacional de Seguridad (ONS)* was established in 1983 within the intelligence service as the working body of the CNI Director to assist him in the discharge of his duties related to the protection of Classified Information. The ONS has the function of ensuring the compliance with the rules on protection of both national Classified Information and that information handed over to the civil service or to the companies under the international Treaties or Agreements signed by Spain (article 4 f of the 11/2002 Act of 6 May regulating the CNI).

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The *Centro Criptológico Nacional (CCN)*, is the organization responsible for coordinating the different organizations' activities in the Public Administration, using resources or encryption procedures and ensuring the security of the information technologies in all areas, keeping informed concerning the coordinated acquisition of the cryptologic material and it is also responsible for providing training for Public Administration resources who specialize in this field. The CCN was created in 2004, by means of the Spanish Royal Decree 421/2004, assigned to the CNI. In fact, the Spanish Act 11/2002, of May 6, which regulates the CNI, entrusts to the said Centre, all functions regarding the security of information technologies and protection of classified information, while the responsibility of running the CCN is conferred to the Secretary of State Director. That is why the CCN shares environments, procedures, regulations and resources with the CNI.

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#### *Centro de Inteligencia de las Fuerzas Armadas (CIFAS)*

The CIFAS is the body responsible for facilitating the Ministry of Defense with military intelligence in case of a potential military crisis. It can also provide the necessary support, within its scope, to operations. CIFAS also directs the intelligence system of the Armed Forces (SIFAS), controls, coordinates and operates the intelligence and electronic warfare systems. CIFAS interacts and collaborates with the intelligence agencies of Spain's allies. CIFAS controls the Armed Forces Intelligence Center and its IMINT and SIGINT stations.

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The *Guardia Civil* is the Spanish gendarmerie. It has foreign peace-keeping missions and maintains military status and is the equivalent of a federal military-status police force. As a police force, the Guardia Civil is comparable today to the French Gendarmerie, the Italian Carabinieri and the Dutch Royal Marechaussee as it is part of the European Gendarmerie. Today the Guardia Civil is a police force subject to the checks and supervision expected in a democratic society. Moreover, the guardias' proven effectiveness throughout history, whether in controlling banditry or in addressing the subsequent challenges and tasks given them, meant that additional tasks have been added regularly to their job description. Today, they are primarily responsible for policing and/or safety regarding the following (but not limited to) areas and/or safety related issues: highway patrol, protection of the Royal Family and the King of Spain, military police counter drugs operations, anti-smuggling operations, customs and ports of entry control, safety of prisons and safeguarding of prisoners, weapons licenses and arms control, security of border areas, bomb squad and explosives, security in rural areas anti-terrorism; coast guard, police deployments abroad (embassies); intelligence and counter-intelligence gathering, cyber- and internet crime; hunting permits and environmental law enforcement.

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The *Cuerpo Nacional de Policía (CNP)* is the national civilian police force of Spain. The CNP is mainly responsible for policing urban areas, whilst countryside policing is generally the responsibility of the Guardia Civil, the Spanish gendarmerie. The CNP operates under the authority of Spain's Ministry of the Interior. They mostly handle criminal, judicial, terrorism and immigration matters. However, the CNP has limited competency in the Basque Country and Catalonia, where the autonomous Ertzaintza and Mossos d'Esquadra handle most matters except the most important ones like terrorism and organized crime.

The *Ertzaintza* is the police force of the Basque Country, one of the autonomous communities of Spain.

The *Mossos d'Esquadra* are the police force of Catalonia, one of the autonomous communities of Spain. It is the oldest civil police force in Europe, founded in the 18th century as the Esquadres de Catalunya to protect the people of Catalonia. The Mossos d'Esquadra are placed under the authority of the *Generalitat de Catalunya*, within the territory of the autonomous community of Catalonia.

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

Wikipedia

CIA World Factbook

CNI <http://www.cni.es>

MOD <http://www.defensa.gob.es>

Intelpage <http://www.intelpage.info/centro-de-inteligencia-de-las-fuerzas-armadas-cifas.html>

CCN <https://www.ccn.cni.es>

Guardia Civil <http://www.guardiacivil.es>

CNP <http://www.policia.es>

Ertzaintza <http://www.ertzaintza.net>

Generalitat de Catalunya <http://www20.gencat.cat>

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## LOGS SECTION

frequency	date	UTC	day	enigma	remarks	mode	contributor
18.1	5-10-2012	1826	Fri	M32	RDL: Russian Military Routine Bcast "RDL RDL = 78646 11332... 11332 K" //9346.	CW	(MPJ)
18.1	9-10-2012	1916	Tue	M32	RDL: Russian Strategic Mil Bcast. RDL Sends routine message: RDL RDL 98245 73158 98245 73158 98244 73158 K. Another 18.1 09-10-2012 1922 (MPJ) M32 CW RDL: Russian Strategic Mil Bcast. RDL Sends short message	CW	(MPJ)
2678	14-10-2012	2301	Sun	M22	4XZ IDF/Israeli Navy Haifa	CW	(LG2)
3215	12-10-2012	0046	Fri	M32	Russian Strategic Operational Command "TS 453 I6 2T M47 553UM 632E L8 21458 R? K"	CW	(LG2)
3226	11-10-2012	2308	Thu	M21	Russian Air Defence	CW	(LG2)
3297	1-10-2012	1259	Mon	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd	CW	(JPL-HK)
3297	1-10-2012	1751	Mon	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd	CW	(JPL-HK)
3297	1-10-2012	2133	Mon	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd	CW	(JPL-HK)
3297	2-10-2012	2157	Tue	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd	CW	(JPL-HK)
3297	4-10-2012	1227	Thu	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd	CW	(JPL-HK)
3297	4-10-2012	1334	Thu	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd	CW	(JPL-HK)
3297	4-10-2012	2203	Thu	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd	CW	(JPL-HK)
3297	5-10-2012	1411	Fri	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd	CW	(JPL-HK)
3297	5-10-2012	1527	Fri	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd	CW	(JPL-HK)
3297	5-10-2012	1806	Fri	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd	CW	(JPL-HK)
3297	5-10-2012	1949	Fri	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd	CW	(JPL-HK)
3297	6-10-2012	1217	Sat	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd	CW	(JPL-HK)
3297	6-10-2012	1527	Sat	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd	CW	(JPL-HK)
3297	6-10-2012	1933	Sat	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd	CW	(JPL-HK)
3297	7-10-2012	2046	Sun	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd	CW	(JPL-HK)
3297	8-10-2012	1103	Mon	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd	CW	(JPL-HK)
3297	8-10-2012	1401	Mon	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd	CW	(JPL-HK)
3297	8-10-2012	1736	Mon	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd	CW	(JPL-HK)
3297	8-10-2012	1944	Mon	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd	CW	(JPL-HK)
3297	8-10-2012	2207	Mon	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd	CW	(JPL-HK)
3297	9-10-2012	1257	Tue	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd	CW	(JPL-HK)
3297	9-10-2012	1347	Tue	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd	CW	(JPL-HK)
3297	9-10-2012	1715	Tue	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd	CW	(JPL-HK)
3297	9-10-2012	2009	Tue	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd	CW	(JPL-HK)
3297	9-10-2012	2127	Tue	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd	CW	(JPL-HK)
3297	14-10-2012	1431	Sun	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd	CW	(JPL-HK)
3297	14-10-2012	1538	Sun	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd	CW	(JPL-HK)
3297	14-10-2012	1753	Sun	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd	CW	(JPL-HK)
3297	14-10-2012	2029	Sun	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd	CW	(JPL-HK)
3297	15-10-2012	2139	Mon	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd	CW	(JPL-HK)
3297	17-10-2012	1630	Wed	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd	CW	(JPL-HK)
3297	17-10-2012	2146	Wed	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd	CW	(JPL-HK)
3510	11-10-2012	1832	Thu	M01b	201 740 30 = = //4605 kHz	CW	(AB/MPJ)
3510	25-10-2012	1832	Thu	M01b	543/7? 96 0009? ... = = 714 714? 30 30 0 0 0. // 4605	CW	(MPJ)
3520	5-10-2012	2013	Fri	M01b	ip //4585	CW	(HFD)
3645	1-10-2012	1915	Mon	M01b	771 1 5FGs ends with 000 000 //4456 kHz	CW	(AB)
3704	10-10-2012	2020	Wed	E06	OM, EE, 154 154 154 00000	AM	(Q-HOL)
3748	10-10-2012	1615	Wed	M32a	Russia Navy Kaliningrad. Wx forecast to REO. "REO REO DE RMP RMP QTC 525E164 1T 1956 52 IE5E5= SML = PROGNOZ POGODY DO 18 ÁSOW 11 OKT-BR- BALTIJSK (see N&O 181)	CW	(Rx)
3748	10-10-2012	1841	Wed	M32a	Russian Navy Kaliningrad "RJD69 RJD69 DE RMP RMP QYT4 QSX 5456 QWH 4109 AR"	CW	(Rx))
3756	7-10-2012	1637	Sun	S30	Russian Mil. "Pip" channel marker	CW	(AB)
3756	7-10-2012	2208	Sun	S30	Russian Military THE PIP	CW	(LG2)
3756	10-10-2012	1608	Wed	S30	8MUO 42BV PMV5 42 956 23 239 30 488 OPASNYJ 75 64 18 09	USB	(Avare)

frequency	date	UTC	day	enigma	remarks	mode	contributor
					Priyom		
3756	10-10-2012	1608	Wed	S30	8MUO 42BV PMV5 42 956 23 239 30 488 OPASNYJ 75 64 18 09	USB	(Fido)
3756	10-10-2012	1730	Wed	S30	8MUO 53 597 MELOVATYJ 39 08 86 94 SKOPULIT 69 72 83 78	USB	(Avare)
					Priyom		
3756	10-10-2012	1730	Wed	S30	8MUO 53 597 MELOVATYJ 39 08 86 94 SKOPULIT 69 72 83 78	USB	(Fido)
3756	10-10-2012	1747	Wed	S30	Dlya F61N 37CN MUDR 7VNShch Zh7NZh YMA5 VTH3 AGDT 'U1B OSOG	USB	(Avare)
3756	10-10-2012	1747	Wed	S30	Dlya F61N 37CN MUDR 7VNShch Zh7NZh YMA5 VTH3 AGDT 'U1B OSOG	USB	(Fido)
3756	10-10-2012	1808	Wed	S30	8MUO 42BV PMV5 16 378 53 213 88 901 BYTNOST' 66 80 83 84	USB	(Fido)
3756	10-10-2012	1808	Wed	S30	8MUO 42BV PMV5 16 378 53 213 88 901 BYTNOST' 66 80 83 84	USB	(Tucana)
					Priyom		
3756	10-10-2012	1815	Wed	S30	8MUO 42BV PMV5 57 089 94 545 16 546 VYeRAMITAN 33 66 84 60	USB	(Fido)
3756	10-10-2012	1815	Wed	S30	8MUO 42BV PMV5 57 089 94 545 16 546 VYeRAMITAN 33 66 84 60	USB	(Tucana)
3756	10-10-2012	1830	Wed	S30	8MUO 42BV PMV5 22 516 69 595 95 805 VVYZAN'Ye 24 52 58 94	USB	(Fido)
3756	10-10-2012	1830	Wed	S30	8MUO 42BV PMV5 22 516 69 595 95 805 VVYZAN'Ye 24 52 58 94	USB	(Tucana)
3756	11-10-2012	0317	Thu	S30	Dlya BO6C F56Shch 9GSA ZhBZU 4RVZ 3VS' DKJ1 6I2Zh ZhD9V SJ5C	USB	(Fido)
3756	11-10-2012	1658	Thu	S30	Dlya L7O5 V'Z' NLCYe V2MZ SB7Z Y8VM 8MUO TUZR 5J7Shch 27Shch'	USB	(Fido)
3756	12-10-2012	0005	Fri	S30	8S1Shch 76 560 ZVYeNOVIK 14 98 82 91	USB	(Fido)
3756	12-10-2012	1712	Fri	S30	Dlya F56Shch DMC3 49FT C2ZA LI27 INNC ShchGJP 8CShchJ TZLM FY5Ye	USB	(Fido)
3756	13-10-2012	0311	Sat	S30	Dlya F61N 37CN MUDR 7VNShch Zh7NZh YMA5 VTH3 AGDT 'U1B OSOG	USB	(Fido)
3756	13-10-2012	1709	Sat	S30	Dlya 42BV 81BR M7KS PMV5 L'GJ TShchShchs VKY1 HCLF 61HZh ZBIL	USB	(Fido)
3756	14-10-2012	1746	Sun	S30	Dlya F61N 37CN MUDR 7VNShch Zh7NZh YMA5 VTH3 AGDT 'U1B OSOG	USB	(Fido)
3756	15-10-2012	1709	Mon	S30	Dlya L7O5 V'Z' NLCYe V2MZ SB7Z Y8VM 8MUO TUZR 5J7Shch 27Shch'	USB	(Fido)
3756	16-10-2012	1651	Tue	S30	Dlya 5FSShch DMC3 49FT C2ZA LI27 INNC ShchGJP 8CShchJ TZLM FN5Ye	USB	(Fido)
3756	17-10-2012	1740	Wed	S30	Dlya 81BR M7KS PMV5 L'GJ TShchShchs VKY1 HCLF 61HZh ZBIL L7O5	USB	(Fido)
3756	18-10-2012	0311	Thu	S30	Dlya V'Z' NLCYe V2MZ SB7Z Y8VM 8MUO TUZR 5J7Shch 27Shch' N1DU	USB	(Fido)
3756	18-10-2012	1657	Thu	S30	Dlya AGDT 'U1B OSOG BO6C F56Shch 9GSA ZhBZU 4RVZ 3VS' DKJ1	USB	(Fido)
3756	19-10-2012	1707	Fri	S30	Dlya TUZR 5J7Shch 27Shch' N1DU 53OB 78MV 'MSV YGJ' 12CI 79AJ	USB	(Fido)
3756	20-10-2012	1633	Sat	S30	Dlya 8CShchJ TZLM FY5Ye F61N 37CN MUDR 7VNShch Zh7NZh YMA5 VTH3	USB	(Fido)
3756	21-10-2012	1722	Sun	S30	Dlya HCLF 61HZh ZBIL L7O5 V'Z' NLCYe V2MZ SB7Z Y8VM 8MUO	USB	(Fido)
3756	22-10-2012	0235	Mon	S30	Dlya TUZR 5J7Shch 27Shch' N1DU 53OB 78MV 'MSV YGJ' 12CI 79AJ	USB	(Fido)
3756	22-10-2012	1530	Mon	S30	Unreadable (Dlya)	USB	(Fido)
3756	22-10-2012	1705	Mon	S30	Unreadable (Dlya)	USB	(Fido)
3756	23-10-2012	1722	Tue	S30	Dlya ZhD9V SJ5C 42BV 81BR M7KS PMV5 L'GJ TshchShchs VKY1 HCLF	USB	(Fido)
3756	25-10-2012	1718	Thu	S30	Dlya 8CShchJ TZLM FY5Ye F61N 37CN MUDR 7VNShch Zh7NZh YMA5 VTH3	USB	(Fido)
3756	26-10-2012	0240	Fri	S30	Dlya AGDT 'U1B OSOG BO6C F56Shch 9GSA ZhBZU 4RVZ 3VS' DKJ1	USB	(Fido)
3756	27-10-2012	1630	Sat	S30	Unreadable (Dlya)	USB	(Fido)
3756	28-10-2012	0300	Sun	S30	Unreadable (Dlya)	USB	(Fido)
3797	1-10-2012	1301	Mon	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL-HK)

frequency	date	UTC	day	enigma	remarks	mode	contributor
3797	1-10-2012	1344	Mon	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL-HK)
3797	1-10-2012	1755	Mon	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL-HK)
3797	1-10-2012	2135	Mon	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL-HK)
3797	4-10-2012	1230	Thu	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL-HK)
3797	4-10-2012	1337	Thu	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL-HK)
3797	4-10-2012	2159	Thu	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL-HK)
3797	5-10-2012	1206	Fri	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL-HK)
3797	5-10-2012	1413	Fri	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL-HK)
3797	5-10-2012	1525	Fri	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL-HK)
3797	5-10-2012	1804	Fri	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL-HK)
3797	5-10-2012	1945	Fri	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL-HK)
3797	6-10-2012	1219	Sat	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL-HK)
3797	6-10-2012	1531	Sat	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL-HK)
3797	6-10-2012	1937	Sat	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL-HK)
3797	8-10-2012	1405	Mon	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL-HK)
3797	8-10-2012	1740	Mon	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL-HK)
3797	8-10-2012	1948	Mon	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL-HK)
3797	9-10-2012	1301	Tue	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL-HK)
3797	9-10-2012	1351	Tue	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL-HK)
3797	9-10-2012	1717	Tue	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL-HK)
3797	9-10-2012	2011	Tue	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL-HK)
3797	14-10-2012	1432	Sun	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL-HK)
3797	14-10-2012	1540	Sun	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL-HK)
3797	14-10-2012	1755	Sun	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL-HK)
3797	14-10-2012	2031	Sun	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL-HK)
3797	15-10-2012	2141	Mon	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL-HK)
3797	19-10-2012	2007	Fri	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL-HK)
3797	23-10-2012	1805	Tue	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL-HK)
3797	29-10-2012	2149	Mon	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL-HK)
3797	31-10-2012	1704	Wed	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL-HK)
3797	31-10-2012	1928	Wed	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL-HK)
3797	31-10-2012	2113	Wed	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL-HK)
3808	12-10-2012	1552	Fri	M32	XXX XXX XB2M XB2M 72991 OBTVNOJ 6872 8O11 K //3828 kHz	CW	(Avare)
3828	7-10-2012	1635	Sun	S32	Russian Mil. "Squeaky Wheel" channel marker	USB	(AB)
3828	12-10-2012	1550	Fri	M32	XXX XXX JFB5 JFB5 8666O OBUH 8330 3249 K	CW	(Avare)
3828	12-10-2012	1552	Fri	M32	XXX XXX XB2M XB2M 72991 OBTVNOJ 6872 8O11 K //3808 kHz	CW	(Avare)
3883	7-10-2012	2028	Sun	M18	Russian Mil. Time marker "0027 0027 0028 0028" etc. Time sent is UTC+4	CW	(AB)
3883	9-10-2012	2032	Tue	M18	Russian Mil. Time marker "0033 0033 0034" etc. Time sent is UTC+4	CW	(AB)
3883	15-10-2012	2051	Mon	M18	0051 0051 0052 0052 0053 etc	CW	(AB)
4028	19-10-2012	0118	Fri	V02a	Caught late	AM	(Gil)
4051	12-10-2012	2211	Fri	M32a	Russian Navy "ATAQ DE BQEH K"	CW	(LG2)
4051	12-10-2012	2212	Fri	M32a	Russian Navy "RAL2 DE RLO2M I VK QSA4 K"	CW	(LG2)
4078	10-10-2012	2056	Wed	M32a	RMP Russian Navy HQ Kaliningrad ip 5FGs to RKZ	CW	(LG2)
4153	19-10-2012	2122	Fri	XSL	Japanese Navy a.k.a. Slot Machine	QPSK 1500bd	(AB-HK)
4225	1-10-2012	1255	Mon	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL-HK)
4225	1-10-2012	1345	Mon	M89	VVV UGT COMM BT 2878/2300/6NN 7918 AR. V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL-HK)
4225	1-10-2012	1736	Mon	M89	MSG NR 02/CK CK 25 37 1002 0125 RMKS 8398 TO (see N&O 181). V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL-HK)
4225	1-10-2012	1757	Mon	M89	VVV UGT COMM BT. (see N&O 181). V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL-HK)
4225	1-10-2012	2129	Mon	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL-HK)
4225	3-10-2012	1042	Wed	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL-HK)
4225	3-10-2012	2218	Wed	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL-HK)
4225	3-10-2012	2337	Wed	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL-HK)

frequency	date	UTC	day	enigma	remarks	mode	contributor
4225	4-10-2012	0950	Thu	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL-HK)
4225	4-10-2012	1159	Thu	M89	QV5B msg VV 7G NR 06/CCK CK 25 37 10004 2000 RMKS 8398 TO .647/2879/2820/2.75/2.58 //4225	CW	(JPL-HK)
4225	4-10-2012	1330	Thu	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL-HK)
4225	4-10-2012	2205	Thu	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL-HK)
4225	5-10-2012	1151	Fri	M89	QV5B msg: VV VV UGT COMM BT 8671/2040/08/8398 AR //5500	CW	(JPL-HK)
4225	5-10-2012	1414	Fri	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL-HK)
4225	5-10-2012	1533	Fri	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL-HK)
4225	5-10-2012	1811	Fri	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL-HK)
4225	5-10-2012	1953	Fri	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL-HK)
4225	6-10-2012	1035	Sat	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL-HK)
4225	6-10-2012	1213	Sat	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL-HK)
4225	6-10-2012	1523	Sat	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL-HK)
4225	6-10-2012	1929	Sat	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL-HK)
4225	7-10-2012	1511	Sun	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL-HK)
4225	7-10-2012	1740	Sun	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL-HK)
4225	7-10-2012	1747	Sun	M89	V 7NPE (x3) DE QV5B (x2) HR CQ GA (x2) 7G/03/KCK CK 25 37 1008 0145 RMKS 8398 TO (see N&O 181) //5500	CW	(JPL-HK)
4225	8-10-2012	1055	Mon	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL-HK)
4225	8-10-2012	1407	Mon	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL-HK)
4225	8-10-2012	1426	Mon	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL-HK)
4225	8-10-2012	1732	Mon	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL-HK)
4225	8-10-2012	1940	Mon	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL-HK)
4225	8-10-2012	1940	Mon	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL-HK)
4225	8-10-2012	2203	Mon	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL-HK)
4225	9-10-2012	1252	Tue	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL-HK)
4225	9-10-2012	1343	Tue	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL-HK)
4225	9-10-2012	1711	Tue	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL-HK)
4225	9-10-2012	1727	Tue	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL-HK)
4225	9-10-2012	2005	Tue	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL-HK)
4225	14-10-2012	1425	Sun	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL-HK)
4225	14-10-2012	1751	Sun	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL-HK)
4225	14-10-2012	2240	Sun	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL-HK)
4225	16-10-2012	1234	Tue	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL-HK)
4225	16-10-2012	1444	Tue	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL-HK)
4225	17-10-2012	1134	Wed	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL-HK)
4225	17-10-2012	1628	Wed	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL-HK)
4225	18-10-2012	1618	Thu	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL-HK)
4225	18-10-2012	2029	Thu	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL-HK)
4225	20-10-2012	1357	Sat	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL-HK)
4225	23-10-2012	1126	Tue	M89	V 7NPE (x3) DE QV5B (x2)	CW	(JPL-HK)
4225	23-10-2012	1537	Tue	M89	V 7NPE (x3) DE QV5B (x2)	CW	(JPL-HK)
4225	23-10-2012	1728	Tue	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL-HK)
4225	23-10-2012	1928	Tue	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL-HK)
4225	23-10-2012	2229	Tue	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL-HK)
4225	24-10-2012	1155	Wed	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL-HK)
4225	24-10-2012	1736	Wed	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL-HK)
4225	26-10-2012	1626	Fri	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL-HK)
4225	26-10-2012	1825	Fri	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL-HK)
4225	29-10-2012	1043	Mon	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL-HK)
4225	31-10-2012	1014	Wed	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL-HK)
4225	31-10-2012	1225	Wed	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL-HK)
4225	31-10-2012	1325	Wed	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL-HK)
4225	31-10-2012	1658	Wed	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL-HK)
4225	31-10-2012	1931	Wed	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL-HK)

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4231.5	19-10-2012	2122	Fri	XSL	Japanese Navy a.k.a. Slot Machine	QPSK 1500bd	(AB-HK)
4331	5-10-2012	1923	Fri	M22	4XZ: IDF/Israeli Navy Haifa IP, "...= vvv de 4xz 4xz =..."	CW	(Q-HOL)
4331	12-10-2012	2103	Fri	M22	4XZ HAIFA	CW	(Q-HOL)
4331	12-10-2012	2311	Fri	M22	4XZ IDF/Israeli Navy Haifa	CW	(LG2)
4331	31-10-2012	2205	Wed	M22	4XZ Haifa" ...= =vvv de 4xz 4xz = =..."	CW	(Q-HOL)
4433	19-10-2012	2102	Fri	M32a	2Severomorsk Naval Radio "RLO de RIT QTC 175 34 20 0058 175 = RADIOPROGNOZ 20102 03003 30001 ... 00612 40011 =" re- peats msg.	CW	(MPJ)
4440	24-10-2012	2021	Wed	M51	FAV22: 8 RÚgiment de Transmission ip, 5fG and text	CW	(Q-HOL)
4440	26-10-2012	1902	Fri	M01b	153 (R) msg ... = = 714 714 3t 3t ttt	CW	(Q-HOL)
4454	2-10-2012	1842	Tue	S21	454 (R) 794 30 87455 64099 ... 90656 794 30 000 //4854 kHz	USB	(AB)
4454	2-10-2012	1842	Tue	S21	454 (R) 794 794 30 30 87455 64099 à 90656 794 794 30 30 000	USB	(tING)
4454	11-10-2012	1842	Thu	S21	454 101 35 83923 96160 95578 ... 88997 94091 101 35 000 //4855 kHz	USB	(AB)
4454	16-10-2012	1842	Tue	S21	454 101 35 83923 96160 .... 94091	USB	(USB)
4454	30-10-2012	1842	Tue	S21	454 101 36 msg	USB	(FYM/Q)
4455	29-10-2012	1916	Mon	M01b	771 714 714 30 30 = = 08319 35791 08255 51399 95289 98119 32605 60114 ... 48076 63228 = = 714 714 30 30 000	CW	(tING)
4456	1-10-2012	1915	Mon	M01b	771 1 5FGs ends with 000 000 //3645 kHz	CW	(AB)
4456.1	29-10-2012	1930	Mon	M01b	ip	CW	(Q-HOL)
4497	4-10-2012	2050	Thu	E07	584 1	AM	(HFD)
4497	18-10-2012	2050	Thu	E07	584 1	AM	(HFD)
4508	10-10-2012	1845	Wed	RADv	Russian Air Defense	USB	(LG2)
4512	1-10-2012	1301	Mon	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL-HK)
4512	1-10-2012	1344	Mon	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL-HK)
4512	1-10-2012	1755	Mon	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL-HK)
4512	1-10-2012	2135	Mon	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL-HK)
4512	4-10-2012	1230	Thu	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL-HK)
4512	4-10-2012	1337	Thu	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL-HK)
4512	4-10-2012	2159	Thu	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL-HK)
4512	5-10-2012	1206	Fri	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL-HK)
4512	5-10-2012	1413	Fri	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL-HK)
4512	5-10-2012	1525	Fri	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL-HK)
4512	5-10-2012	1804	Fri	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL-HK)
4512	5-10-2012	1945	Fri	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL-HK)
4512	6-10-2012	1219	Sat	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL-HK)
4512	6-10-2012	1531	Sat	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL-HK)
4512	6-10-2012	1937	Sat	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL-HK)
4512	7-10-2012	1517	Sun	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL-HK)
4512	7-10-2012	1746	Sun	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL-HK)
4512	7-10-2012	2048	Sun	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL-HK)
4512	7-10-2012	2126	Sun	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL-HK)
4512	8-10-2012	1405	Mon	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL-HK)
4512	8-10-2012	1740	Mon	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL-HK)
4512	8-10-2012	1948	Mon	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL-HK)
4512	9-10-2012	1301	Tue	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL-HK)
4512	9-10-2012	1351	Tue	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL-HK)
4512	9-10-2012	1717	Tue	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL-HK)
4512	9-10-2012	2011	Tue	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL-HK)
4512	9-10-2012	2127	Tue	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL-HK)
4512	14-10-2012	1432	Sun	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL-HK)
4512	14-10-2012	1540	Sun	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL-HK)
4512	14-10-2012	1755	Sun	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL-HK)
4512	14-10-2012	2031	Sun	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL-HK)
4512	17-10-2012	1634	Wed	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL-HK)
4512	17-10-2012	2148	Wed	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL-HK)



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4512	18-10-2012	1704	Thu	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL-HK)
4512	19-10-2012	2007	Fri	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL-HK)
4512	20-10-2012	1237	Sat	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL-HK)
4512	20-10-2012	1403	Sat	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL-HK)
4512	22-10-2012	1208	Mon	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL-HK)
4512	23-10-2012	1805	Tue	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL-HK)
4512	23-10-2012	1934	Tue	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL-HK)
4512	23-10-2012	2033	Tue	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL-HK)
4512	25-10-2012	1711	Thu	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL-HK)
4512	26-10-2012	1634	Fri	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL-HK)
4512	26-10-2012	1830	Fri	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL-HK)
4512	31-10-2012	1229	Wed	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL-HK)
4512	31-10-2012	1329	Wed	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL-HK)
4512	31-10-2012	1704	Wed	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL-HK)
4512	31-10-2012	1928	Wed	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL-HK)
4512	31-10-2012	2113	Wed	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL-HK)
4526	18-10-2012	1140	Thu	M14	Test "VVVVVVVVVVVVVVVV"	CW	(Avare)
4526	18-10-2012	1200	Thu	M14	Test "123456789 123456789"	CW	(Avare)
4526	18-10-2012	1300	Thu	G06	215 215 215 00000, distorted voice	AM	(Avare)
4555	4-10-2012	1802	Thu	M45	555 794 794 30 30 = = 87455 64099 ... 88977 90646 = = 794 794 30 30 000	CW	(tING)
4556	4-10-2012	1307	Thu	M32	VVVV MDVB 50713 NAHILA 8126 79 18	CW	(Avare)
4557	7-10-2012	1323	Sun	M32	XXX XXX MDVB 96255 NAFTOKS 2102 5893 K	CW	(Avare)
4557	14-10-2012	1316	Sun	M32	XXX MDVB 87010 SATELLIT 6463 3984	USB	(Danix)
4557	14-10-2012	1320	Sun	M32	XXX MDVB 23574 PASHA 5240 4455	USB	(Danix)
4557	24-10-2012	1230	Wed	M32	XXX MDVB 90 440 NARYVNYJ 51 59 56 16	CW	(Avare)
4557.7	19-10-2012	2054	Fri	MX	Beacon "D" Odessa11/Sevastopol	CW	(MPJ)
4557.9	19-10-2012	2054	Fri	MX	Beacon "S" Severomorsk	CW	(MPJ)
4558	12-10-2012	0103	Fri	MX	Russian Navy Beacon "D" Odessa/Sevastapol	CW	(LG2)
4558	12-10-2012	2240	Fri	MX	Russian Navy Beacon "D" Odessa/Sevastapol	CW	(LG2)
4560	12-10-2012	1604	Fri	M32	XXX XXX LR43 LR43 55560 ISQEPKA 9916 6072 SIGNAL GARPUN K (4x)	CW	(Avare)
4570	4-10-2012	1941	Thu	M01b	477 714 714 30 30 = = 08319 35791 ... 48076 63228 = = 714 714 30 30 000	CW	(tING)
4571.12	11-10-2012	1942	Thu	M01b	477 714 30 = = 5FG pairs = = 714 714 30 30 000. Spurious output on 4572.3 kHz	CW	(MPJ)
4585	5-10-2012	2013	Fri	M01b	ip //3520	CW	(HFD)
4590	1-10-2012	1257	Mon	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	(JPL-HK)
4590	1-10-2012	1341	Mon	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	(JPL-HK)
4590	1-10-2012	1749	Mon	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	(JPL-HK)
4590	1-10-2012	2131	Mon	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	(JPL-HK)
4590	2-10-2012	2155	Tue	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL-HK)
4590	8-10-2012	1359	Mon	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	(JPL-HK)
4590	8-10-2012	1734	Mon	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	(JPL-HK)
4590	8-10-2012	1734	Mon	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	(JPL-HK)
4590	8-10-2012	1942	Mon	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	(JPL-HK)
4590	8-10-2012	2205	Mon	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	(JPL-HK)
4590	12-10-2012	1555	Fri	M32	XXX XXX 2V8I 2V8I 48621 OBTONYJ 6994 6106 K //4619 kHz	CW	(Avare)
4590	14-10-2012	1427	Sun	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL-HK)
4590	14-10-2012	1537	Sun	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	(JPL-HK)
4590	14-10-2012	1755	Sun	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL-HK)
4590	14-10-2012	2027	Sun	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL-HK)
4590	14-10-2012	2242	Sun	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	(JPL-HK)
4590	23-10-2012	1130	Tue	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	(JPL-HK)
4590	23-10-2012	1539	Tue	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	(JPL-HK)
4590	23-10-2012	1730	Tue	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	(JPL-HK)

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4590	23-10-2012	1809	Tue	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	(JPL-HK)
4590	23-10-2012	1930	Tue	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	(JPL-HK)
4590	23-10-2012	2031	Tue	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	(JPL-HK)
4590	23-10-2012	2232	Tue	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL-HK)
4590	24-10-2012	1159	Wed	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	(JPL-HK)
4590	24-10-2012	1553	Wed	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	(JPL-HK)
4590	24-10-2012	1738	Wed	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	(JPL-HK)
4590	24-10-2012	2127	Wed	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	(JPL-HK)
4590	25-10-2012	1707	Thu	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	(JPL-HK)
4590	25-10-2012	2112	Thu	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL-HK)
4590	29-10-2012	2147	Mon	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL-HK)
4591.1	29-10-2012	1812	Mon	M01b	ip	CW	(Q-HOL)
4593	14-10-2012	2136	Sun	M22	4XZ IDF/Israeli Navy Haifa	CW	(LG2)
4594	15-10-2012	2238	Mon	M22	4XZ IDF/Israeli Navy Haifa	CW	(LG2)
4595	12-10-2012	2323	Fri	M22	4XZ IDF/Israeli Navy Haifa	CW	(LG2)
4595	14-10-2012	1737	Sun	M22	4XZ: HAIFA ip, "...= vvv de 4x z4xz = =..."	CW	(Q-HOL)
4595	24-10-2012	1906	Wed	M22	4XZ Haifa ...= vvv de 4x z4xz = =...	CW	(Q-HOL)
4595	26-10-2012	1925	Fri	M22	4XZ Haifa ip, "...= vvv de 4xz z4xz = =..."	CW	(Q-HOL)
4595	29-10-2012	1928	Mon	M22	4XZ Navy Haifa "= vvv de 4xz 4xz = =..."	CW	(Q-HOL)
4605	4-10-2012	1832	Thu	M01b	201 714 714 30 30 = = 08319 35791 .... 48076 63228 = = 714 714 30 30 000v	CW	(tING)
4605	11-10-2012	1832	Thu	M01b	201 740 30 = = //3510 kHz	CW	(AB)
4605	25-10-2012	1832	Thu	M01b	543/7? 96 0009? ... = = 714 714? 30 30 0 0 0. // 3510	CW	(MPJ)
4610	3-10-2012	1328	Wed	RMv	Russian Mil. 37 168 POLITIKA 35 61 87 29 POLIPEPTID 94 92 05 69 Povtoryau (Repeat) 37 168 POLITIKA 35 61 87 29 POLIPEPTID 94 92 05 69 Kapel'05 Dajte kvitantciyu (give a receipt) 01 7	USB	(Avare)
4617	1-10-2012	0430	MON	M12	638 000	CW	(FN)
4619	12-10-2012	1555	Fri	M32	XXX XXX 2V8I 2V8I 48621 OBTONYJ 6994 6106 K //4590 kHz	CW	(Avare)
4622	12-10-2012	0822	Fri	S28	Buzzer, also on 4625 kHz. Two transmitters	carrier + USB	(RSRu)
4622	12-10-2012	1300	Fri	S28	Buzzer, also on 4625 kHz. Two transmitters	carrier + USB	(JM5)
4622	12-10-2012	1630	Fri	S28	Buzzer, also on 4625 kHz. Two transmitters	silent carrier	(JM5)
4622	12-10-2012	1650	Fri	S28	Buzzer, also on 4625 kHz. Two transmitters	carrier + USB	(JM5)
4622	12-10-2012	1707	Fri	S28	Buzzer, also on 4625 kHz. Two transmitters	carrier + USB	(AB)
4625	3-10-2012	1323	Wed	S28	MDZhB 01 511 NACHeRNIENIE 72 80 33 08 NAHLYNOK 67 69 18 19	USB	(Avare)
4625	3-10-2012	1326	Wed	S28	MDZhB 74 113 MAHILIS 72 06 62 09	USB	(Avare)
4625	4-10-2012	1308	Thu	S28	MDZhB 50 713 NAHILA 81 26 79 18	USB	(Avare)
4625	7-10-2012	1324	Sun	S28	MDZhB 96 255 NAFTOKS 21 02 58 93	USB	(AB-EST)
4625	7-10-2012	1324	Sun	S28	MDZhB 96 255 NAFTOKS 21 02 58 93	USB	(Avare)
4625	7-10-2012	1638	Sun	S28	Russian Mil. "Buzzer" channel marker	USB	(AB)
4625	8-10-2012	1132	Mon	S28	MDZhB 41 034 KAZIMIA 94 68 24 64	USB	(Avare)
4625	8-10-2012	1149	Mon	S28	MDZhB 60 115 ZAUSHNITSa 52 58 98 40	USB	(Avare)
4625	8-10-2012	1229	Mon	S28	MDZhB MDZhB 63 497 RAUNG 85 24 82 08	USB	(Avare)
4625	12-10-2012	0822	Fri	S28	Buzzer, also on 4622 kHz. Two transmitters	USB	(RSRu)
4625	12-10-2012	1300	Fri	S28	Buzzer, also on 4622 kHz. Two transmitters	USB	(JM5)
4625	12-10-2012	1630	Fri	S28	Buzzer, also on 4622 kHz. Two transmitters	USB	(JM5)
4625	12-10-2012	1650	Fri	S28	Buzzer, also on 4622 kHz. Two transmitters	USB	(JM5)
4625	12-10-2012	1707	Fri	S28	Buzzer, also on 4622 kHz. Two transmitters	USB	(AB)
4625	14-10-2012	1314	Sun	S28	MDZhB 87010 SATELLIT 6463 3984	USB	(Danix)
4625	14-10-2012	1318	Sun	S28	MDZhB 23574 PASHA 5240 4455	USB	(Danix)
4625	22-10-2012	0650	Mon	S28	MDZhB 63 644 GASTROPTOZ 02 57 01 21	USB	(Avare)
4625	22-10-2012	0816	Mon	S28	MDZhB 06 155 KASTELYaN 72 18 24 22	USB	(Avare)
4625	22-10-2012	0820	Mon	S28	MDZhB 34 412 RASSEV 48 99 62 66	USB	(Avare)
4625	22-10-2012	0828	Mon	S28	MDZhB 95 331 VASSAL'NYJ 76 17 61 38	USB	(Avare)
4625	22-10-2012	0842	Mon	S28	MDZhB 06 855 RASPIRANIE 71 77 91 11 VASOVITYJ 26 57 48 86	USB	(Avare)
4625	24-10-2012	1144	Wed	S28	MDZhB 68 005 PASKOIT 91 31 72 65	USB	(Avare)

frequency	date	UTC	day	enigma	remarks	mode	contributor
4625	24-10-2012	1200	Wed	S28	MDZhB 76 730 VASILISNIK 86 57 93 23	USB	(Avare)
4625	24-10-2012	1227	Wed	S28	MDZhB 09 024 BASENNYJ 88 88 02 59	USB	(Avare)
4625	24-10-2012	1228	Wed	S28	MDZhB 58 495 FASADOChYJ 33 23 79 27	USB	(Avare)
4625	24-10-2012	1230	Wed	S28	MDZhB 90 440 NARYVNYJ 51 59 56 16	USB	(Avare)
4625	24-10-2012	1316	Wed	S28	MDZhB 83 808 ChARY 41 19 69 63	USB	(Avare)
4625	24-10-2012	1318	Wed	S28	MDZhB 70 265 PARUSLO 53 43 72 00 - not repeated, buzzer on	USB	(Avare)
4625	24-10-2012	1319	Wed	S28	MDZhB 70 265 PARUSLO 53 43 72 00	USB	(Avare)
4631	30-10-2012	2120	Tue	M42	Russian Gov/Intel. Repeated blocks of 4	FSK 200/1000	(MPJ)
4633	18-10-2012	1920	Thu	M42	Russian Gov/Intel.	Baudot 200/500	(FMB)
4633	25-10-2012	1920	Thu	M42	Russian Gov/Intel. 00000+++++++162)5761 repeated	FSK 200/500	(MPJ)
4639	1-10-2012	1706	Mon	G06	10-counts	AM	(AB)
4665	30-10-2012	1925	Tue	RADv	Russian Air Defense. ATSETON-46 calling BANKET-46	USB	(ASh)
4780	3-10-2012	1851	Wed	RADv	NBSHchOL-10 Variant-1 Priyom	USB	(SSh)
4854	2-10-2012	1842	Tue	S21	454 (R) 794 30 87455 64099 ... 90656 794 30 000 //4454 kHz	USB	(AB)
4854	2-10-2012	1842	Tue	S21	454 (R) 794 794 30 30 87455 64099 à 90656 794 794 30 30 000	USB	(tING)
4854	4-10-2012	1842	Thu	S21	454 794 794 30 30 87455 64099 ... 88977 90656 794 794 30 30 000	USB	(tING)
4854	9-10-2012	1842	Tue	S21	454 101 101 35 35 83923 96160 ... ???	USB	(tING)
4854	11-10-2012	1842	Thu	S21	454 101 35 83923 96160 95578 ... 52730 88997 94091 101 35 000	USB	(Spec)
4854	18-10-2012	1842	Thu	S21	454 101 35 83923 96160 95578 ... 52730 88997 94091 101 35 000	USB	(Spec)
4854	30-10-2012	1842	Tue	S21	454 101 36 msg	USB	(Q-HOL)
4855	11-10-2012	1842	Thu	S21	454 101 35 83923 96160 95578 ... 88997 94091 101 35 000 //4454 kHz	USB	(AB)
4860	2-10-2012	2220	Tue	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL-HK)
4860	3-10-2012	2220	Wed	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL-HK)
4860	3-10-2012	2321	Wed	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL-HK)
4860	4-10-2012	1220	Thu	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL-HK)
4860	4-10-2012	2220	Thu	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL-HK)
4860	5-10-2012	1420	Fri	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL-HK)
4860	5-10-2012	1520	Fri	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL-HK)
4860	5-10-2012	1820	Fri	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL-HK)
4860	6-10-2012	1220	Sat	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL-HK)
4860	7-10-2012	1520	Sun	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL-HK)
4860	8-10-2012	1420	Mon	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL-HK)
4860	8-10-2012	2220	Mon	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL-HK)
4860	9-10-2012	1722	Tue	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840 Late start - unusual	CW	(JPL-HK)
4860	9-10-2012	1820	Tue	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL-HK)
4860	9-10-2012	2019	Tue	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL-HK)
4860	14-10-2012	1420	Sun	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL-HK)
4860	14-10-2012	1820	Sun	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL-HK)
4860	17-10-2012	1420	Wed	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL-HK)
4860	17-10-2012	2320	Wed	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL-HK)
4860	18-10-2012	1620	Thu	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL-HK)
4860	18-10-2012	1720	Thu	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL-HK)
4860	19-10-2012	2020	Fri	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL-HK)
4860	22-10-2012	2220	Mon	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL-HK)
4860	23-10-2012	1120	Tue	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL-HK)
4860	23-10-2012	1820	Tue	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL-HK)
4860	23-10-2012	1920	Tue	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL-HK)
4860	23-10-2012	2020	Tue	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL-HK)
4860	24-10-2012	1220	Wed	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL-HK)
4860	26-10-2012	1620	Fri	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL-HK)
4860	31-10-2012	1220	Wed	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL-HK)
4860	31-10-2012	1320	Wed	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL-HK)

frequency	date	UTC	day	enigma	remarks	mode	contributor
4860	31-10-2012	1720	Wed	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL-HK)
4860	31-10-2012	1920	Wed	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL-HK)
4869	8-10-2012	1420	Mon	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL-HK)
4869	8-10-2012	2220	Mon	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL-HK)
4950	15-10-2012	1708	Mon	M23	246	CW	(FMB)
4950	15-10-2012	1809	Mon	M23	246	CW	(FMB)
4951	14-10-2012	1705	Sun	M23	246 (R) ended with a very long DASH	CW	(Q-HOL)
4955	11-10-2012	1802	Thu	M45	555	CW	(AB)
4958	6-10-2012	1935	Sat	S06	843 0	AM	(HFD)
4958	27-10-2012	1935	Sat	S06	OM/RR, 143 143 143 00000	AM	(Q-HOL)
5020	2-10-2012	2000	Tue	M01	463(R) 189 189 30 30 = = 48248 22061 à 11071 19053 58711 62016 = = 189 189 30 30 000	CW	(tiNG)
5020	4-10-2012	2000	Thu	M01	463 632 632 30 30 = = 39836 58619 ... 54555 35339 = 632 632 30 30 000	CW	(tiNG)
5020	9-10-2012	2000	Tue	M01	463 802 802 30 30 = = 13941 41499 ... 94834 13020 = = 802 802 30 30 000	CW	(tiNG)
5020	25-10-2012	2002	Thu	M01	ip, 5FSG, "463 (R) 849 849 30 30 = = msg = = t t t" ET 2010	CW	(Q-HOL)
5127	4-10-2012	1905	Thu	S06	349 0	AM	(HFD)
5127	4-10-2012	1905	Thu	S06	349 349 349 00000	AM	(tiNG)
5127	8-10-2012	1905	Mon	S06	349 349 349 00000	AM	(HS2)
5127	11-10-2012	1905	Thu	S06	349 349 349 00000	AM	(AB/Q-HOL)
5127	15-10-2012	1905	Mon	S06	349 349 349 00000	AM	(GS2)
5127	15-10-2012	1905	Mon	S06	349 0	AM	(HFD)
5127	22-10-2012	1905	Mon	S06	349 0	AM	(HFD)
5127	25-10-2012	1905	Thu	S06	349 0	AM	(HFD)
5129	20-10-2012	1804	Sat	M32a	Russian Navy Floating Workshop PM-56 "RCV DE RIR98 926 18 20 2200 926 = SML FOR RJE73 RJH45 = 20181 99432 10313 4.598 50708 20200 40107 58006 70122 85410 22272 00175 20302 88000 20014 = + RIR98 K"	CW	(Tom-I)
5129	21-10-2012	0029	Sun	M32a	Russian Navy Floating Workshop PM-56 "RCV DE RIR98 864 18 21 0400 864 = SML FOR RJE73 RJH45 = 21001 99426 10303 41597 50709 10200 40195 54000 70222 85410 22272 00175 20302 88000 21014 = + RIR98 K"	CW	(Tom-I)
5129	21-10-2012	1804	Sun	M32a	Russian Navy Floating Workshop PM-56 "RCV DE RIR98 523 18 21 2200 523 = FOR RJE73 RJH45 = 21181 99409 10288 41598 70408 10207 40150 57011 75055 87610 22252 00180 20101 88000 21014 = + RIR98 K"	CW	(Tom-I)
5129	22-10-2012	0004	Mon	M32a	Russian Navy Floating Workshop PM-56 "RCV DE RIR98 348 18 22 0400 348 = SML FOR RJE73 RJH45 = 22001 99407 10276 41598 70329 10200 40150 54000 75055 84610 22252 00180 20101 88000 22014 = + RIR98 K"	CW	(Tom-I)
5129	22-10-2012	1808	Mon	M32a	Russian Navy Floating Workshop PM-56 "RCV DE RIR98 395 18 22 2200 395 = SML FOR RJE73 RJH45 = 22181 99389 10253 41598 40012 10202 40143 57000 77111 84310 22242 00180 20403 88000 22014 = + RIR98 K"	CW	(Tom-I)
5129	23-10-2012	1836	Tue	M32a	Russian Navy Floating Workshop PM-56 "RCV DE RIR98 342 18 23 2200 342 = SML FOR RJE73 RJH45 = 23181 99360 10273 41598 72502 10200 40140 58010 71022 87420 22212 ..280 20000 88000 23014 = + RIR98 K"	CW	(Tom-I)
5129	24-10-2012	1822	Wed	M32a	Russian Navy Floating Workshop PM-56 "RCV DE RIR98 281 18 24 2200 281 = SML FOR RJE73 RJH45 = 24181 99347 10312 40598 70103 10201 40125 58005 70322 58015 70322 87520 22232 00180 20000 88000 24014 = + RIR98 K"	CW	(Tom-I)
5129	25-10-2012	0006	Thu	M32a	Russian Navy Floating Workshop PM-56 "RCV DE RIR98 464 18 25 0400 464 = SML FOR RJE73 RJH45 = 25001 99345 10321 41597 70103 10220 40111 58014 70399 87520 222.. 00190 20000 88000 25014 = + RIR98 K"	CW	(Tom-I)
5130	4-10-2012	2032	Thu	RADv	"BAYKAL-35, ya OS'-13, proshu na svyaz?, priyom"	USB	(SSh)
5146	25-10-2012	0430	Thu	E07a	188 0	USB	(HFD)

frequency	date	UTC	day	enigma	remarks	mode	contributor
5153.7	3-10-2012	1956	Wed	MX	Beacon "D"	CW	(AB)
5153.9	1-10-2012	0512	Mon	MX	Beacon "S"	CW	(AB)
5153.9	3-10-2012	1956	Wed	MX	Beacon "S"	CW	(AB)
5164	3-10-2012	2001	Wed	E07	815 815 815 000	AM	(SSH)
5164	3-10-2012	2020	Wed	E07a	815 0	USB	(HFD)
5189	4-10-2012	2030	Thu	E06	891 490 15 63728 01627 83491 63819 51628 79103 61035 28193 72104 38102 81036 20192 46183 01826 19201 490 15 00000	AM	(Spec)
5189	4-10-2012	2030	Thu	E06	891 490 490 15 15 63728 01627 ... 19201 490 490 15 15 00000	AM	(tING)
5189	18-10-2012	2030	Thu	E06	891 490 15 63728 01627 83491 63819 51628 79103 61035 28193 72104 38102 81036 20192 46183 01826 19201 490 15 00000	AM	(Spec)
5194	19-10-2012	1710	Fri	E11a	957/20 Attention	USB	(Spec)
5194	26-10-2012	1710	Fri	E11a	959/21 Attention 49695 75834 08538 10028 00071 04314 00057 87293 11842 52923 49313 85222 27173 57547 18531 46750 62373 77505 73468 29215 21350 rpt out	USB	(AB/Q-HOL)
5194	26-10-2012	1710	Fri	E11a	959/21	USB	(FYM)
5194	26-10-2012	1710	Fri	E11a	959/21 Attention	USB	(Spec)
5197	5-10-2012	2130	Fri	E06	634 617 15 72391 01826 28193 37182 51025 91721 36271 92018 42710 72819 01936 57183 82017 92016 27102 617 15 00000	AM	(Spec)
5197	19-10-2012	2130	Fri	E06	634 617 15 72391 01826 28193 37182 51025 91721 36271 92018 42710 72819 01936 57183 82017 92016 27102 617 15 00000	AM	(Spec)
5201	30-9-2012	2123		M21	Russian Air Defence (PVO) Null strings: = 990123??0????? etc.	CW	(MPJ)
5201	6-10-2012	2104	Sat	M21	Russian Air Defence (PVO) Null strings: =990105??0????? etc.	CW	(Q-HOL)
5201	7-10-2012	2018	Sun	M21	PVO =990018??0?????	CW	(AB)
5201	7-10-2012	2156	Sun	M21	Russian Air Defence (PVO) =992356??t????? etc.	CW	(Q-HOL)
5201	9-10-2012	2111	Tue	M21	PVO =990111??0?????	CW	(AB)
5201	11-10-2012	1952	Thu	M21	PVO =992352??0?????	CW	(AB)
5201	12-10-2012	1947	Fri	M21	Russian Air Defence =992348??0?????	CW	(MPJ)
5201	15-10-2012	2049	Mon	M21	=990049??0?????	CW	(AB)
5201	16-10-2012	1709	Tue	M21	PVO =9921T9??0?????	CW	(Avare)
5201	29-10-2012	1944	Mon	M21	Russian Air Defence (PVO)	CW	(Q-HOL)
5201	31-10-2012	2223	Wed	M21	Russian Air Defence (PVO) "...=99t223??t?????...=99t224??t?????...=99t225??t?????..." etc.	CW	(Q-HOL)
5207	1-10-2012	1306	Mon	---	Unid pip	CW	(AB-HK)
5207	1-10-2012	2207	Mon	---	Unid pip	CW	(AB-HK)
5207	2-10-2012	2016	Tue	---	Unid pip. 19 pips p/min.	CW	(AB)
5207	3-10-2012	1743	Wed	---	Unid pip/burst	CW/data	(AB-HK)
5207	5-10-2012	1844	Fri	---	Unid pip	CW	(AB-HK)
5207	7-10-2012	1342	Sun	---	Unid Pip/burst. Also at 1618 and 1809 UTC	CW	(AB-HK)
5207	9-10-2012	1637	Tue	---	Unid pip/data	CW/data	(AB-HK)
5207	11-10-2012	1934	Thu	---	Unid pip/burst	CW/data	(AB-HK)
5207	13-10-2012	1145	Sat	---	Unid pip + bursts	CW/data	(AB-HK)
5207	13-10-2012	1145	Sat	---	Unid pip + burst	CW/data	(Q-HK)
5207	19-10-2012	2118	Fri	---	Unid pip + data	CW/data	(AB-HK)
5213	6-10-2012	2058	Sat	M32a	RMP: Russian Naval Radio, Kaliningrad ip, "...q84 de rmp rmp qsa?k..."	CW	(Q-HOL)
5214	3-10-2012	2120	Wed	M12	826 0	CW	(HFD)
5224	29-10-2012	1946	Mon	M32a	RCV: Navy Sevastopol "de rcv qyt4 qsx"	CW	(Q-HOL)
5230	1-10-2012	1753	Mon	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL-HK)
5230	3-10-2012	1037	Wed	M89	In chat - barely audible - freq normally used by 3A7D	CW	(JPL-HK)
5230	3-10-2012	2231	Wed	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL-HK)
5230	4-10-2012	2201	Thu	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL-HK)
5230	5-10-2012	1409	Fri	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL-HK)
5230	5-10-2012	1529	Fri	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL-HK)
5230	5-10-2012	1808	Fri	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL-HK)
5230	5-10-2012	1947	Fri	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL-HK)
5230	6-10-2012	1529	Sat	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL-HK)

frequency	date	UTC	day	enigma	remarks	mode	contributor
5230	6-10-2012	1935	Sat	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL-HK)
5230	7-10-2012	1515	Sun	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL-HK)
5230	7-10-2012	1744	Sun	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL-HK)
5230	8-10-2012	1403	Mon	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL-HK)
5230	8-10-2012	1738	Mon	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL-HK)
5230	8-10-2012	1946	Mon	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL-HK)
5230	8-10-2012	2209	Mon	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL-HK)
5230	9-10-2012	1259	Tue	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL-HK)
5230	9-10-2012	1349	Tue	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL-HK)
5230	9-10-2012	1713	Tue	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL-HK)
5230	14-10-2012	1429	Sun	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL-HK)
5230	14-10-2012	1753	Sun	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL-HK)
5230	17-10-2012	1632	Wed	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL-HK)
5230	18-10-2012	1627	Thu	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL-HK)
5230	18-10-2012	1706	Thu	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL-HK)
5230	20-10-2012	1401	Sat	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL-HK)
5230	22-10-2012	2228	Mon	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL-HK)
5230	25-10-2012	1709	Thu	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL-HK)
5230	31-10-2012	1702	Wed	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL-HK)
5278	2-10-2012	1103	Tue	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL-HK)
5278	4-10-2012	0957	Thu	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL-HK)
5278	5-10-2012	1204	Fri	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL-HK)
5278	6-10-2012	1043	Sat	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL-HK)
5278	7-10-2012	1744	Sun	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL-HK)
5278	17-10-2012	1140	Wed	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL-HK)
5278	22-10-2012	1136	Mon	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL-HK)
5304	11-10-2012	0556	Thu	M32	"DE 7PS9 NIL QYT9"	CW	(BCI)
5317	1-10-2012	0450	MON	M12	638 000	CW	(FN)
5317	7-10-2012	2000	Sun	S06	416 416 416 00000	AM	
5320	4-10-2012	2218	Thu	M32a	RMBN: Russian Navy Warship msgs after =RKT=MMMMMM	CW	(LG2)
5320	11-10-2012	2243	Thu	M32a	RMBB: Russian Navy Warship ip 5LGs	CW	(LG2)
5330	1-10-2012	1305	Mon	VC01	Chinese Robot in progress	USB	(AB-HK)
5330	1-10-2012	2213	Mon	VC01	Chinese Robot in progress	USB	(AB-HK)
5330	2-10-2012	1154	Tue	VC01	Chinese Robot in progress	USB	(AB-HK)
5345	7-10-2012	1709	Sun	M23	ip, "246 (R)" ended with a very long DASH	CW	(HS2/Q)
5345	10-10-2012	1910	Wed	M23	Ip 246 246 246 ends with a long dash	CW	(LG2)
5345	15-10-2012	1706	Mon	M23	246	CW	(FMB)
5345	15-10-2012	1809	Mon	M23	246	CW	(FMB)
5372	23-10-2012	1812	Tue	M32a	Russian Navy Floating Workshop PM-138 "RCV DE RBIZ 894 17 23 2200 894 = FOR RJE73 RJH45 = 23181 99349 10358 41... .230. 10245 40118 ..012 70200 84.00 22200 002.. 88000 23014 = + RBIZ K"	CW	(Tom-I)
5372	25-10-2012	0012	Thu	M32a	Russian Navy Floating Workshop PM-138 "RCV DE RBIZ 321 17 25 0400 321 = FOR RJE73 RJH45 = 25001 99349 10358 41597 70503 10220 40112 50000 70202 87110 22200 00240 20000 88000 25014 = + RBIZ K"	CW	(Tom-I)
5378	1-10-2012	1800	Mon	G06	154 154 154 00000	AM	(AB)
5416	1-10-2012	1912	Mon	RADv	Russian Air Defense, c/s "Nejtron", "Vol'fram"	USB	(AnRus)
5442	12-10-2012	1930	Fri	G06	947 064 15 61947 51048 41846 81035 28194 39104 51738 93516 42910 38291 53718 10471 63821 73016 38193 064 15 00000	AM	(Avare)
5442	12-10-2012	1930	Fri	G06	947 064 15 15 61947 51048 ... 73016 38193 064 964 15 15 00000	USB	(var)
5442	26-10-2012	1930	Fri	G06	YL, GG, 5FSG, "947 (R) 064 msg 00000	AM	(Q-HOL)
5442	26-10-2012	1930	Fri	G06	947 064 15 61947 51048 41846 81035 28194 39104 51738 93516 42910 38291 53718 10471 63821 73016 38193 064 15 000 000	AM	(stanag)
5452	23-10-2012	2256	Tue	M51	NR 17 O 24 00:56:33 1984 BT	CW	(Spec)
5453	8-10-2012	1537	Mon	M51	ip	CW	(FMB)
5453	23-10-2012	1958	Tue	M51	FAV22 ip, 5fG and text	CW	(Q-HOL)



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5453	24-10-2012	1927	Wed	M51	FAV22: 8 RÚgiment de Transmission ip, 5fG and text	CW	(Q-HOL)
5464	14-10-2012	2203	Sun	M14	ip	CW	(LG2)
5464	24-10-2012	1924	Wed	M14	ip, 5FSG, "...== 94617 94617... t t t t t	CW	(Q-HOL)
5470	26-10-2012	0610	Fri	S06s	934 578 6 49046 84446 88424 13459 94258 54503 578 6 00000	USB	(AB)
5474	11-10-2012	1800	Thu	M01	463	CW	(AB)
5475	2-10-2012	1800	Tue	M01	463 (R) 189 189 30 30 = = 49247 22061 à 60216 = = 189 189 0 30 000	CW	(tiNG)
5500	1-10-2012	1255	Mon	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL-HK)
5500	1-10-2012	1345	Mon	M89	VVV UGT COMM BT 2878/2300/6NN 7918 AR. V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL-HK)
5500	1-10-2012	1736	Mon	M89	MSG NR 02/CK CK 25 37 1002 0125 RMKS 8398 TO (see B&O 181). V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL-HK)
5500	1-10-2012	1757	Mon	M89	VVV UGT COMM BT. (see N&O 181). V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL-HK)
5500	1-10-2012	2129	Mon	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL-HK)
5500	2-10-2012	2153	Tue	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL-HK)
5500	3-10-2012	1042	Wed	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL-HK)
5500	3-10-2012	2218	Wed	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL-HK)
5500	3-10-2012	2337	Wed	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL-HK)
5500	4-10-2012	0950	Thu	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL-HK)
5500	4-10-2012	1159	Thu	M89	QV5B msg VV 7G NR 06/CCK CK 25 37 10004 2000 RMKS 8398 TO .647/2879/2820/2.75/2.58 //5500	CW	(JPL-HK)
5500	4-10-2012	1330	Thu	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL-HK)
5500	4-10-2012	2205	Thu	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL-HK)
5500	5-10-2012	1149	Fri	M89	QV5B msg: VV VV UGT COMM BT 8671/2040/08/8398 AR //4225	CW	(JPL-HK)
5500	5-10-2012	1414	Fri	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL-HK)
5500	5-10-2012	1533	Fri	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL-HK)
5500	5-10-2012	1811	Fri	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL-HK)
5500	5-10-2012	1953	Fri	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL-HK)
5500	6-10-2012	1035	Sat	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL-HK)
5500	6-10-2012	1213	Sat	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL-HK)
5500	6-10-2012	1523	Sat	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL-HK)
5500	6-10-2012	1929	Sat	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL-HK)
5500	7-10-2012	1511	Sun	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL-HK)
5500	7-10-2012	1740	Sun	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL-HK)
5500	7-10-2012	1747	Sun	M89	V 7NPE (x3) DE QV5B (x2) HR CQ GA (x2) 7G/03/KCK CK 25 37 1008 0145 RMKS 8398 TO (see N&O 181) //4225	CW	(JPL-HK)
5500	8-10-2012	1055	Mon	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL-HK)
5500	8-10-2012	1407	Mon	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL-HK)
5500	8-10-2012	1426	Mon	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL-HK)
5500	8-10-2012	1732	Mon	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL-HK)
5500	8-10-2012	1940	Mon	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL-HK)
5500	8-10-2012	2203	Mon	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL-HK)
5500	14-10-2012	1425	Sun	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL-HK)
5500	14-10-2012	2240	Sun	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL-HK)
5500	16-10-2012	1234	Tue	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL-HK)
5500	16-10-2012	1444	Tue	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL-HK)
5500	17-10-2012	1134	Wed	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL-HK)
5500	17-10-2012	1628	Wed	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL-HK)
5500	17-10-2012	2313	Wed	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL-HK)
5500	18-10-2012	1618	Thu	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL-HK)
5500	20-10-2012	1131	Sat	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL-HK)
5500	20-10-2012	1357	Sat	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL-HK)
5500	22-10-2012	1026	Mon	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL-HK)
5500	22-10-2012	1204	Mon	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL-HK)
5500	22-10-2012	2226	Mon	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL-HK)

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5500	25-10-2012	1705	Thu	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL-HK)
5500	25-10-2012	2350	Thu	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL-HK)
5500	26-10-2012	1626	Fri	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL-HK)
5500	26-10-2012	1825	Fri	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL-HK)
5500	29-10-2012	1043	Mon	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225 Second M89 station in CW background sending 4 fig cut number gr		(JPL-HK)
5500	31-10-2012	1014	Wed	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL-HK)
5500	31-10-2012	1225	Wed	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL-HK)
5500	31-10-2012	1325	Wed	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL-HK)
5500	31-10-2012	1658	Wed	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL-HK)
5500	31-10-2012	1931	Wed	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL-HK)
5751	4-10-2012	2211	Thu	M21	Russian Air Defence =9901111??8?????	CW	(LG2)
5760	16-10-2012	0700	Tue	S06s	374 829 5 88620	USB	(HFD)
5762	20-10-2012	0211	Sat	V02a	Caught late	AM	(Gil)
5788	3-10-2012	1740	Wed	M12	463 1 5FGs	CW	(AB)
5788	3-10-2012	1740	WED	M12	463 1 5933 49 83371	CW	(FN)
5788	3-10-2012	1740	Wed	M12	463 1	CW	(HFD)
5788	10-10-2012	1740	WED	M12	463 1 1628 41 18321	CW	(FN)
5788	24-10-2012	1740	WED	M12	463 1 4237 60 23972	CW	(FN)
5788	31-10-2012	1740	WED	M12	463 1 6131 73 26028	CW	(FN)
5788	31-10-2012	1743	Wed	M12	ip	CW	(FYM)
5800	1-9-2012	0616		M08a	IP	CW	(kc2ttk)
5800	10-9-2012	0602		M08a	IP; @0634 M08a "SK"	CW	(kc2ttk)
5800	18-9-2012	0607		M08a	IP, Faint	CW	(kc2ttk)
5800	19-9-2012	0654		M08a	Dead air; @0708 M08a in progress, very faint	CW	(kc2ttk)
5800	25-9-2012	0625		M08a	IP, good signal; @0633 Dead air; @0657 Off air 2012-09-25 Tue 06:57	CW	(kc2ttk)
5800	26-9-2012	0652		SK01	Tx faint, Tx every 5 minutes; @0752 Off air	RDFT	(kc2ttk)
5800	2-10-2012	0559	Tue	M08a	Weak signal; @0634 "SKSK"	CW	(kc2ttk)
5800	20-10-2012	0600	Sat	M08a	52461 74111 86431	MCW	(BS3)
5805	12-10-2012	0811	Fri	S06	YL/RR, "719" (R) or "712" 5FGs message 00000	AM	(Q-HOL)
5805	12-10-2012	0811	Fri	S06s	278 (R) 513 6 90610 88620 58059 51735 .... 513 6 00000	USB	(Q-HOL)
5810	26-10-2012	1515	Fri	M01	158	CW	(AB)
5814	3-10-2012	2100	Wed	M12	826 0	CW	(HFD)
5815	2-10-2012	1755	Tue	G11	270/00	USB	(HFD)
5815	2-10-2012	1755	Tue	G11	270/00	USB	(tING)
5815	7-10-2012	1020	Sun	S11a	331/00	USB	(Q-HOL)
5815	7-10-2012	1325	Sun	G11	599/00	USB	(Q-HOL)
5815	7-10-2012	1755	Sun	G11	270/00 ENDE	USB	(HS2/Q)
5815	7-10-2012	1756	Sun	G11	270/00	USB	(AB)
5815	9-10-2012	1755	Tue	G11	270/00 Ende	USB	(AB)
5815	10-10-2012	1755	Wed	G11	270/00	USB	(tING)
5815	12-10-2012	1325	Fri	E11	299/00	USB	(HS2)
5815	13-10-2012	1020	Sat	S11a	221/00	USB	(HFD)
5815	13-10-2012	1020	Sat	S11a	.../00 Unreadable	USB	(MPJ)
5815	13-10-2012	1325	Sat	G11	899(??)/00 ... Ende	USB	(MPJ)
5815	13-10-2012	1325	Sat	G11	265/00	USB	(Q-HOL)
5815	14-10-2012	1755	Sun	G11	270/00 Ende	USB	(MPJ)
5815	16-10-2012	1755	Tue	G11	277/38 A 96493 38506 .... 77350	USB	(HS2)
5815	16-10-2012	1755	Tue	G11	277/38 Achtung	USB	(Spec)
5815	19-10-2012	1325	Fri	G11	299/00	USB	(AB)
5815	21-10-2012	1755	Sun	G11	YL, GG, 677/38 5FGs	USB	(Q/HS2)
5815	24-10-2012	1020	Wed	S11a	228/38	USB	(AB)
5815	26-10-2012	1325	Fri	G11	293/32 Achtung 5FGs	USB	(AB)
5815	27-10-2012	1020	Sat	S11a	YL, 338/38 (R) msg	USB	(Q-HOL)
5815	27-10-2012	1325	Sat	G11	YL, GG, 593/35 (R) ACHTUNG 21815..msg ACHTUNG msg, ENDE	USB	(Q-HOL)

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5815	28-10-2012	1755	Sun	G11	YL/GG, 520/00	USB	(Q-HOL)
5815	30-10-2012	1755	Tue	G11	270/00	USB	(FYM)
5835	18-10-2012	0854	Thu	M32c	QZ6Y: Russian Air Force ATIU DE QZ6Y K	CW	(Tom)
5836	4-10-2012	2030	Thu	E07	584 1	AM	(HFD)
5836	18-10-2012	2030	Thu	E07	584 1	AM	(HFD)
5844	18-10-2012	1910	Thu	M42	Russian Gov/Intel.	Baudot 200/500	(FMB)
5844	18-10-2012	1910	Thu	M42	Russian Intel. Msg 6 53	FSK 200/500	(HFD)
5844	25-10-2012	1910	Thu	M42	Russian Gov/Intel. 00000+++++++162)5761 repeated	FSK 200/500	(MPJ)
5846	25-10-2012	0450	Thu	E07a	188 0	USB	(HFD)
5864	3-10-2012	2000	Wed	E07a	815 0	USB	(HFD)
5883	1-9-2012	0700		V02a	Atencion 25071 38412 42741; Tuned to 5882KHz USB for better reception	AM	(kc2ttk)
5883	18-9-2012	0705		V02a	Faint; signal rises and falls with QRN	AM	(kc2ttk)
5883	23-9-2012	0600		M08a	faint AIP; @0648 Off air	CW	(kc2ttk)
5883	23-9-2012	0648		V02a	very faint, strong QRN, inaudible call-up; @0744 Off air	AM	(kc2ttk)
5883	24-9-2012	0657		V02a	V02a faded to silence, dead air thereafter;@0743 (off air)	AM	(kc2ttk)
5883	25-9-2012	0730		V02a	Atencion 20711 32451 46471"; @0727 "88881" & "22222"; @0741 "FINAL FINAL FINAL"; @0742 Off air	AM	(kc2ttk)
5883	30-9-2012	0654		V02a	very weak signal;	AM	(kc2ttk)
5883	30-9-2012	0735		V02a	in progress; @0744 Off air	AM	(kc2ttk)
5883	14-10-2012	0700	Sun	V02a	weak	AM	(Gil)
5883	16-10-2012	0700	Tue	V02a	A24072 35612 48141	AM	(Gil)
5883	18-10-2012	0700	Thu	V02a	A00122 13541 26872	AM	(Gil)
5883	20-10-2012	0700	Sat	V02a	A48361 53682 64121	AM	(Gil)
5883	21-10-2012	0700	Sun	V02a	A04222 17641 21071	AM	(Gil)
5883	23-10-2012	0700	Tue	V02a	A07752 20181 33422	AM	(Gil)
5883	26-10-2012	0722	Fri	V02a	ip	AM	(Gil)
5883	28-10-2012	0700	Sun	V02a	A65341 78662 82001	AM	(Gil)
5883	28-10-2012	0800	Sun	V02a	A65341 78662 82001	AM	(Gil)
5883	2-10-2012	0651	Tue	V02a	extremely faint, signal rising and falling with QRN	AM	(kc2ttk)
5883	9-10-2012	0700	Tue	V02a	Atencion 64141 75771 88112 LG 56877	AM	(Dan)
5883	12-10-2012	0700	Fri	V02a	YL, SS, 5fG, "ATENCION 11171 23412 46731 (R) 11171 (R) msg 23412 (R) msg 46731 (R) msg FINAL FINAL FINAL"	AM	(Q-USA)
5883	14-10-2012	0650	Sun	V02a	YL, SS, "111[uno uno uno]" nothing further	AM	(Q-USA)
5883	18-10-2012	0700	Thu	V02a	Atencion 00122 13741 26872 LG 28724	AM	(Dan)
5883	20-10-2012	0700	Sat	V02a	48361 52682 64121	AM	(BS3)
5890	2-10-2012	1800	Tue	S06	286 0	AM	(HFD)
5890	2-10-2012	1800	Tue	S06	286 286 286 00000	AM	(tiNG)
5890	10-10-2012	1800	Wed	S06	286 286 286 00000	AM	(tiNG)
5898	1-9-2012	0800		V02a	Atencion 25071 38412 42741; Strong QRM from WWCR	AM	(kc2ttk)
5898	10-9-2012	0350		M08a	Carrier on; @0459 M08a Tx Begins	CW	(kc2ttk)
5898	19-9-2012	0614		SK01	IP, faint, drowned out by QRM, signal rises and falls with QRN; @0654 Off air	RDFT	(kc2ttk)
5898	23-9-2012	0501		M08a	M08a faint with strong QRN; @0535 Dead air; @0600 Off air	CW	(kc2ttk)
5898	23-9-2012	0744		V02a	Very faint breif burst of V02a, strong QRN and QRM (from WWCR); @0710 Stopped listening	AM	(kc2ttk)
5898	24-9-2012	0457		M08a	very faint; @0554 Off air	CW	(kc2ttk)
5898	24-9-2012	0744		V02a	Atencion 74361 [235]6101 18422", very faint signal on very strong carrier	AM	(kc2ttk)
5898	25-9-2012	0742		V02a	Barely audible	AM	(kc2ttk)
5898	26-9-2012	0605		SK01	in progress @0652 Off air	RDFT	(kc2ttk)
5898	20-10-2012	0800	Sat	V02a	A48361 53682 64121	AM	(Gil)
5898	16-10-2012	0800	Tue	V02a	A24072 35612 48141	AM	(Gil)
5898	30-9-2012	0517		M08a	in progress	CW	(kc2ttk)
5898	30-9-2012	0744		M08a	Carrier on; @0759 Brief burst of M08a	CW	(kc2ttk)
5898	30-9-2012	0813		V02a	very faint; @0815 Stopped listening	AM	(kc2ttk)

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5898	2-10-2012	0745	Tue	V02a	Atencion 23731 36252 40581", Headers "07254 3*8**", "11336 4***5", and "***** *****"	AM	(kc2ttk)
5898	7-10-2012	0806	Sun	V02a	YL/SS, "ATENCION 05282 16822 20351 (R) 05282 (R) msg 16822 (R) msg 20351 (R) msg FINAL FINAL FINAL"	AM	(Q-USA)
5898	12-10-2012	0842	Fri	V02a	i.p YL, SS, "5fG msg FINAL FINAL FINAL"	AM	(Q-USA)
5898	13-10-2012	0658	Sat	V02a	YL, SS, "...111111111...[...uno uno uno...] ATENCION 56432 77162 81481 (R) 56432 (R) msgs FINAL FINAL FINAL"	USB	(Q-USA)
5898	13-10-2012	0802	Sat	V02a	YL, SS, ST 0802 without call (defective or error transmission?), "msg FINAL FINAL FINAL"	USB	(Q-USA)
5898	14-10-2012	0800	Sun	V02a	YL, SS, 5fG, "ATENCION 11171 23412 46731 (R) 11171 (R) msg 23412 (R) msg 46731 (R) msg FINAL FINAL FINAL"	AM	(Q-USA)
5898	20-10-2012	0500	Sat	M08a	52461 74111 86431	MCW	(BS3)
5898	20-10-2012	0800	Sat	V02a	48361 52682 64121	AM	(BS3)
5923	6-10-2012	2130	Sat	S06	314 0	AM	(HFD)
5930	20-10-2012	0930	Sat	SK01		RDFT	(BS3)
5940	11-10-2012	1830	Thu	G06	579 015 15 65438 01324 67197 94631 63723 98012 56489 03425 75401 37289 85935 82961 83970 37481 27978 015 15 00000	AM	(Spec)
5940	25-10-2012	1830	Thu	G06	579 015 15 65438 01324 67197 94631 63723 98012 56489 03425 75401 37289 85935 82961 83970 37481 27978 015 15 00000	AM	(Spec)
5947	9-10-2012	1820	Tue	M14	346 801 801 15 15 = = 61739 01728 91027 39103 92015 81829 40173 20194 61021 53910 29103 10285 83910 71037 = = 801 801 15 15 00000	CW	(tING)
5947	20-10-2012	0900	Sat	SK01		RDFT	(BS3)
6209	6-10-2012	1330	Sat	VC01	Chinese Robot, synthesized YL voice in Chinese with fast numbers	LSB	(Token)
6209	7-10-2012	1340	Sun	VC01	Chinese Robot. Also a 1618 and 1807 UTC	LSB	(AB-HK)
6209	13-10-2012	1143	Sat	VC01	Chinese Robot in progress	LSB	(AB-HK)
6209	13-10-2012	1144	Sat	VC01	Chinese Robot	LSB	(Q-HK)
6209	14-10-2012	1309	Sun	VC01	Chinese Robot in progress	USB	(AB-HK)
6209	16-10-2012	1209	Tue	VC01	Chinese Robot	LSB	(AB-HK)
6209	17-10-2012	1209	Wed	VC01	Chinese Root	LSB	(AB)
6250	19-10-2012	2122	Fri	XSL	Japanese Navy a.k.a. Slot Machine	QPSK 1500bd	(AB-HK)
6261	6-10-2012	1500	Sat	M01	ip, 5FG, 463(R), EOT 1510	CW	(Q-HOL)
6261	27-10-2012	1500	Sat	M01x	463	CW	(FYM)
6261	27-10-2012	1502	Sat	M01	463 (R) 774 774 30 30 = = msg = = t t t	CW	(Q-HOL)
6261.9	13-10-2012	1506	Sat	M01	ip, 5FSG, ended with "t t t"	CW	(Q-HOL)
6304	8-10-2012	0450	Mon	E11	416/00	USB	(HS2)
6340	26-10-2012	0600	Fri	S06s	934 578 6 49046 84446 88424 13459 94258 54503 578 6 00000	USB	(AB)
6379	5-10-2012	1905	Fri	M22	4XZ: IDF/Israeli Navy Haifa IP, five figure groups	CW	(Q-HOL)
6379	9-10-2012	2030	Tue	M22	4XZ ip, "...zspdb ymqlxgcpz yniaus flowe ejtpn thahl rsywn hwilf smowm..."	CW	(Q-HOL)
6379	18-10-2012	1957	Thu	M22	4XZ HAIFAip, "...= = vvv de 4x z4xz = =..."	CW	(Q-HOL)
6379	19-10-2012	1811	Fri	M22	4XZ: HAIFA, ISR	CW	(Q-HOL)
6379	24-10-2012	1906	Wed	M22	4XZ Haifa ip	CW	(Q-HOL)
6379	25-10-2012	2000	Thu	M22	4XZ Haifa ip	CW	(Q-HOL)
6379	31-10-2012	1942	Wed	M22	4XZ Haifa	CW	(Q-HOL)
6410	2-10-2012	1000	Tue	S06s	893 570 6 05899 50387 45847 23013 89858 52343 570 6 00000	USB	(AB)
6410	9-10-2012	1000	Tue	S06s	893 570 6 05899 50387 45847 23013 89858 52343 570 6 00000	USB	(HS2)
6417	19-10-2012	2122	Fri	XSL	Japanese Navy a.k.a. Slot Machine	QPSK 1500bd	(AB-HK)
6433	7-10-2012	2000	Sun	G11	262/00 ENDE	USB	(HS2/Q)
6433	12-10-2012	2000	Fri	G11	262/00	USB	(var)
6433	14-10-2012	2000	Sun	G11	265/00 Ende	USB	(MPJ)
6433	19-10-2012	2000	Fri	G11	265/34 Achtung! 31093 68379 ... 25399 25399 47843 47843 (repeats)	USB	(Q/MPJ)
6433	19-10-2012	2000	Fri	G11	269/34 Achtung	USB	(Spec)
6433	21-10-2012	2000	Sun	G11	YL, GG, 265/30 5FGs	USB	(Q/HS2)
6433	26-10-2012	2000	Fri	G11	YL, GG, 265/00	USB	(AB/Q-HOL)

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6433	28-10-2012	2000	Sun	G11	YL/GG, 265/00	USB	(Q-HOL)
6445	19-10-2012	2122	Fri	XSL	Japanese Navy a.k.a. Slot Machine	QPSK 1500bd	(AB-HK)
6607	5-10-2012	1912	Fri	M22	4XZ: IDF/Israeli Navy Haifa IP, five figure groups	CW	(Q-HOL)
6607	9-10-2012	2041	Tue	M22	4XZ ip	CW	(Q-HOL)
6607	14-10-2012	1743	Sun	M22	4XZ: HAIFA ip, "...= = vvv de 4x z4xz = =..."	CW	(Q-HOL)
6607	24-10-2012	1906	Wed	M22	4XZ Haifa ip	CW	(Q-HOL)
6607	25-10-2012	1959	Thu	M22	4XZ Haifa ...= = vvv de 4x z4xz = =	CW	(Q-HOL)
6607	27-10-2012	1947	Sat	M22	4XZ: Ny Haifa VVV DE 4XZ 4XZ	CW	(PR)
6607	31-10-2012	2145	Wed	M22	4XZ Haifa "...= = vvv de 4xz 4xz = =..."	CW	(Q-HOL)
6773	2-10-2012	1101	Tue	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //8040	CW	(JPL-HK)
6773	3-10-2012	1035	Wed	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL-HK)
6773	3-10-2012	2229	Wed	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //8040	CW	(JPL-HK)
6773	4-10-2012	0959	Thu	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL-HK)
6773	6-10-2012	1041	Sat	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //8040	CW	(JPL-HK)
6773	8-10-2012	1101	Mon	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //8040	CW	(JPL-HK)
6773	8-10-2012	2211	Mon	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL-HK)
6773	14-10-2012	2246	Sun	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //8040	CW	(JPL-HK)
6773	14-10-2012	2339	Sun	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //8040	CW	(JPL-HK)
6773	17-10-2012	1142	Wed	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //8040	CW	(JPL-HK)
6773	23-10-2012	1134	Tue	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //8040	CW	(JPL-HK)
6773	23-10-2012	2235	Tue	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //8040	CW	(JPL-HK)
6773	29-10-2012	1027	Mon	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL-HK)
6779	9-10-2012	2201	Tue	M32	"MWKS" "MWKS MWKS DE WME2 WME2 K DE WME2 WME2 Q BE QYT6K"	CW	(BCI)
6784	11-10-2012	0630	THU	M12	761 000	CW	(FN)
6784	25-10-2012	0630	THU	M12	761 000	CW	(FN)
6802	3-10-2012	1720	Wed	M12	463 1 5FGs	CW	(AB)
6802	3-10-2012	1720	WED	M12	463 1 5933 49 83371	CW	(FN)
6802	3-10-2012	1720	Wed	M12	463 1	CW	(HFD)
6802	10-10-2012	1720	WED	M12	463 1 1628 41 18321	CW	(FN)
6802	24-10-2012	1720	WED	M12	463 1 4237 60 23972	CW	(FN)
6802	31-10-2012	1720	WED	M12	463 1 6131 73 26028	CW	(FN)
6814	8-10-2012	0820	Mon	E11a	439/31 Attention	USB	(Spec)
6814	22-10-2012	0820	Mon	E11	438/00	USB	(FYM)
6824	8-10-2012	1050	Mon	M51	FAV22 8Úme Rúgiment de Transmission ip 5LGs	CW	(LG2)
6824	19-10-2012	1600	Fri	M51	ip	CW	(FMB)
6825	14-10-2012	1508	Sun	M51	FAV22: 8 Rúgiment de Transmission, 5fG and text	CW	(Q-HOL)
6825	19-10-2012	1807	Fri	M51	FAV22: 8 Rúgiment de Transmission ip, 5fG and text	CW	(Q-HOL)
6825	27-10-2012	1203	Sat	M51	FAV22: 8 Rúgiment de Transmission 1203 CW, ip, 5fG and text, CW "...bt nr 45 25 14:26:11 1984 bt..."	CW	(Q-HOL)
6825	28-10-2012	0919	Sun	M51	FAV22: 8 Rúgiment de Transmission ip, 5fG and text, "...VVV VVV VVV DE FAV22 FAV22 FAV22 QLH 3881/6825 kHz vitesse annonces..."	CW	(Q-HOL)
6840	1-10-2012	0320	Mon	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //10640	CW	(JPL-HK)
6840	2-10-2012	2220	Tue	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL-HK)
6840	3-10-2012	0120	Wed	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //10640	CW	(JPL-HK)
6840	3-10-2012	1020	Wed	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //10640	CW	(JPL-HK)
6840	3-10-2012	2220	Wed	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL-HK)
6840	3-10-2012	2321	Wed	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL-HK)
6840	4-10-2012	1220	Thu	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL-HK)
6840	4-10-2012	2220	Thu	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL-HK)
6840	5-10-2012	1420	Fri	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL-HK)
6840	5-10-2012	1520	Fri	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL-HK)
6840	5-10-2012	1820	Fri	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL-HK)
6840	6-10-2012	1220	Sat	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL-HK)
6840	7-10-2012	1520	Sun	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL-HK)

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6840	8-10-2012	0221	Mon	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //10640	CW	(JPL-HK)
6840	8-10-2012	1420	Mon	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL-HK)
6840	8-10-2012	2220	Mon	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL-HK)
6840	9-10-2012	1722	Tue	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL-HK)
6840	9-10-2012	1820	Tue	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL-HK)
6840	9-10-2012	2019	Tue	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL-HK)
6840	14-10-2012	0120	Sun	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //10640	CW	(JPL-HK)
6840	14-10-2012	1420	Sun	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL-HK)
6840	14-10-2012	1820	Sun	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL-HK)
6840	17-10-2012	1420	Wed	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL-HK)
6840	17-10-2012	2320	Wed	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL-HK)
6840	18-10-2012	1620	Thu	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL-HK)
6840	18-10-2012	1720	Thu	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL-HK)
6840	19-10-2012	0020	Fri	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K	CW	(JPL-HK)
6840	19-10-2012	2020	Fri	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL-HK)
6840	22-10-2012	0220	Mon	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //10640	CW	(JPL-HK)
6840	22-10-2012	1020	Mon	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //10640	CW	(JPL-HK)
6840	22-10-2012	2220	Mon	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL-HK)
6840	23-10-2012	0020	Tue	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K	CW	(JPL-HK)
6840	23-10-2012	1120	Tue	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL-HK)
6840	23-10-2012	1820	Tue	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL-HK)
6840	23-10-2012	1920	Tue	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL-HK)
6840	23-10-2012	2020	Tue	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL-HK)
6840	24-10-2012	0220	Wed	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //10640	CW	(JPL-HK)
6840	24-10-2012	1220	Wed	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL-HK)
6840	25-10-2012	0320	Thu	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //10640	CW	(JPL-HK)
6840	25-10-2012	2122	Thu	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K	CW	(JPL-HK)
6840	26-10-2012	1620	Fri	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL-HK)
6840	28-10-2012	1620	Sun	M89	vvv Q2M Q2M Q2M de NYZ NYZ	CW	(FN)
6840	29-10-2012	1019	Mon	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //10640	CW	(JPL-HK)
6840	30-10-2012	1722	Tue	M89	VVV Q2M de NYZ.	CW	(MPJ)
6840	31-10-2012	1020	Wed	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //10640	CW	(JPL-HK)
6840	31-10-2012	1220	Wed	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL-HK)
6840	31-10-2012	1320	Wed	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL-HK)
6840	31-10-2012	1720	Wed	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL-HK)
6840	31-10-2012	1920	Wed	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL-HK)
6840	31-10-2012	2120	Wed	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K	CW	(JPL-HK)
6850	9-10-2012	1359	Tue	M51	= NR 51 O 09 15:00:22 1984 =	CW	(LG2)
6869	12-10-2012	2000	Fri	E11a	573/31 21925 18865 88878 ... 56403 84465 40241 21246 96571 repeat, out, windows xp off.	USB	(Avare)
6869	12-10-2012	2000	Fri	E11a	YL, EE 573/31 attention 21925 18865 .... 96571. Windows XP shutdown sound	USB	(var)
6869	19-10-2012	2000	Fri	E11	576/00	USB	(Q-HOL)
6869	26-10-2012	2000	Fri	E11	YL, EE, 576/00	USB	(Q-HOL)
6869.5	19-10-2012	1811	Fri	MX	"...vvvvvvvvvv...", sporadic	CW	(Q-HOL)
6904	1-10-2012	1740	MON	M12	257 1 6956 72 51777	CW	(FN)
6904	1-10-2012	1840	MON	M12	257 1 5586 68 61437	CW	(FN)
6904	1-10-2012	1840	Mon	M12	257 1	CW	(HFD)
6904	1-10-2012	1940	MON	M12	257 1 4545 90 54547	CW	(FN)
6904	1-10-2012	1940	Mon	M12	257 1	CW	(HFD)
6904	4-10-2012	1740	THU	M12	257 1 4803 82 85710	CW	(FN)
6904	4-10-2012	1940	THU	M12	257 1 9409 43 73864	CW	(FN)
6904	4-10-2012	1940	Thu	M12	257 257 257 1 9409 43 73864 16556 76502 ... 76688 90295 000 000	CW	(Q-HOL)
6904	8-10-2012	1740	MON	M12	257 1 7176 72 08731	CW	(FN)
6904	8-10-2012	1840	MON	M12	257 1 5127 63 60803	CW	(FN)



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6904	8-10-2012	1940	MON	M12	257 1 5056 78 65568	CW	(FN)
6904	8-10-2012	1940	Mon	M12	257 257 257 1 (R) 5t56 78 65568 tt432 92483 ... 39261 16894 25127 ttt ttt	CW	(Q-HOL)
6904	11-10-2012	1740	Thu	M12	257 257 257 1 9811 49 37063 72656 40205 ... 86472 77495 000 000	CW	(AB/Q-HOL)
6904	11-10-2012	1740	THU	M12	257 1 6249 55 38171	CW	(FN)
6904	11-10-2012	1740	Thu	M12	257/1 6249 55. 5FGs mostly unreadable in QRM.	CW	(MPJ)
6904	11-10-2012	1940	THU	M12	257 1 9811 49 37063	CW	(FN)
6904	15-10-2012	1740	Mon	M12	257 1 4403 72 17017 92486 ... 0 0 0 0 0 0	CW	(MPJ)
6904	15-10-2012	1940	Mon	M12	257 1 5036 99 72486 06608 ... 0 0 0	CW	(MPJ)
6904	18-10-2012	1903	Thu	M12	257 257 257 1 (R) msg, ttt ttt	CW	(Q-HOL)
6904	22-10-2012	1740	MON	M12	257 1 3063 73 51414	CW	(FN)
6904	22-10-2012	1840	MON	M12	257 1 2743 55 55514	CW	(FN)
6904	22-10-2012	1940	MON	M12	257 1 7299 68 87605	CW	(FN)
6904	25-10-2012	1740	THU	M12	257 1 6982 87 34138	CW	(FN)
6904	25-10-2012	1940	THU	M12	257 1 3769 67 71259	CW	(FN)
6904	25-10-2012	1940	Thu	M12	257/1 3769 67 71359 38490 ... 12393 36981 0 0 0 0 0 0	CW	(MPJ)
6904	25-10-2012	1943	Thu	M12	5f, "msg ttt ttt"	CW	(Q-HOL)
6904	29-10-2012	1740	MON	M12	257 1 2647 78 67450	CW	(FN)
6904	29-10-2012	1840	MON	M12	257 1 6156 40 13453	CW	(FN)
6904	29-10-2012	1940	MON	M12	257 1 2798 69 96569	CW	(FN)
6907	13-10-2012	1220	Sat	E06	154 154 154 00000	AM	(FN/MPJ)
6917	16-10-2012	1625	Tue	MX	Beacon L	CW	(HS2)
6917.5	3-10-2012	2003	Wed	MX	Beacon "L"	CW	(AB)
6917.5	9-10-2012	1927	Tue	MX	Beacon "L"	CW	(AB)
6917.5	10-10-2012	2006	Wed	MX	Beacon "L"	CW	(Q-HOL)
6917.5	10-10-2012	2052	Wed	MX	L: beacon Skt Peterburg	CW	(MPJ)
6917.5	11-10-2012	1650	Thu	MX	Beacon "L"	CW	(AB)
6917.5	11-10-2012	1948	Thu	MX	Beacon "L"	CW	(Q-HOL)
6917.5	12-10-2012	1626	Fri	MX	Beacon "L"	CW	(AB)
6924.5	12-10-2012	1300	Fri	M51	FAV22 8Úme RÚgiment de Transmission ip slow speed French plaintext	CW	(LG2)
6925	11-10-2012	2336	Thu	MX	Beacon "V" Khiva	CW	(LG2)
6926	30-10-2012	2110	Tue	M42	Russian Gov/Intel. Repeated blocks of 4	FSK 200/1000	(MPJ)
6928	3-10-2012	2006	Wed	MX	Beacon "V"	CW	(AB)
6928	7-10-2012	1610	Sun	M32	Weak. Starts with "74..", mostly unreadable	CW	(AB)
6928	7-10-2012	1819	Sun	MX	Beacon "V"	CW	(AB)
6928	9-10-2012	1751	Tue	MX	Beacon "V"	CW	(AB)
6928	11-10-2012	1650	Thu	MX	Beacon "V"	CW	(AB)
6928	11-10-2012	1948	Thu	MX	Beacon "V"	CW	(Q-HOL)
6928	12-10-2012	1628	Fri	MX	Beacon "V"	CW	(AB)
6928	12-10-2012	1848	Fri	MX	Beacon "V"	CW	(Q-HOL)
6928	18-10-2012	2001	Thu	MX	Beacon "V", Khiva	CW	(Q-HOL)
6928.1	31-10-2012	1926	Wed	MX	Beacon "V"	CW	(Q-HOL)
6930	18-9-2012	0732		S6930	Katok-65 34 208 REMONT 31 04 34 09 Priyom	USB	(ScSw)
6930	18-9-2012	1617		S6930	Katok-65 18 863 OZhEG 2411 8074 Priyom	USB	(ScSw)
6930	19-9-2012	0600		S6930	Katok-65 71 043 LETO 72 74 88 81 Priyom	USB	(ScSw)
6930	19-9-2012	1200		S6930	Katok-65 62 979 DISK ?141 2772 Priyom	USB	(ScSw)
6930	20-9-2012	1226		S6930	Katok-65 46 244 AEROBIKA 87 42 4? 77 Priyom	USB	(ScSw)
6930	20-9-2012	1559		S6930		USB	(ScSw)
6930	21-9-2012	0644		S6930		USB	(ScSw)
6930	21-9-2012	0655		S6930		USB	(ScSw)
6930	21-9-2012	0717		S6930		USB	(ScSw)
6930	21-9-2012	1507		S6930		USB	(ScSw)
6930	22-9-2012	0451		S6930	Katok-65 39 615 SAROFAN 41 52 33 42 Priyom	USB	(ScSw)
6930	22-9-2012	1748		S6930	Katok-65 35 586 MOLOChNIK 82 07 34 27 Priyom (Note: Mariya,	USB	(ScSw)

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					not Mikhail; Chasy, not Chelovek; Ilya, not Ivan)		
6930	23-9-2012	1649		S6930	Katok-65 52 926 ANSAMBL 4527 0228 Priyom	USB	(ScSw)
6930	23-9-2012	1806		S6930	Katok-65 94 113 IKRA 88 73 82 68 Priyom	USB	(ScSw)
6930	7-10-2012	1405	Sun	S6930	Katok-65 10 101 KARANDASH 67 98 00 4 Priyom (Note: only 7 figures in the last group, also in the repeat)	USB	(ScSw)
6930	7-10-2012	1731	Sun	S6930	Katok-65 20 112 BLOKNOT 31 04 80 74 Priyom	USB	(ScSw)
6930	8-10-2012	1654	Mon	S6930	Katok-65 64 985 ZhURNAL 66 66 99 99 Priyom	USB	(ScSw)
6930	11-10-2012	1106	Thu	S6930	Katok-65 51 241 KOREN 10 10 11 11	USB	(ScSw)
6930	11-10-2012	1324	Thu	S6930	Katok-65 68 793 TETRAD 44 44 57 89	USB	(ScSw)
6930	11-10-2012	1617	Thu	S6930	Maska-31 31 914 MOTOR 19 97 13 45	USB	(ScSw)
6930	11-10-2012	1737	Thu	S6930	Katok-65 45 289 TEKHNİK 18 74 15 46	USB	(ScSw)
6930	11-10-2012	1833	Thu	S6930	Katok-65 49 566 VOZRAST 10 48 29 12	USB	(ScSw)
6930	16-10-2012	0715	Tue	S06s	374	USB	(HFD)
6942	6-10-2012	2030	Sat	S06	314 0	AM	(HFD)
6954.25	19-10-2012	1816	Fri	MX	"...vvvvvvvvvv...", sporadic	CW	(Q-HOL)
6966	31-10-2012	0000	Wed	---	('off key') tune 337-05 (5x) 27512 40032 33801 37931 53046 3x tune	USB	(FYM)
6968	10-10-2012	0656	Wed	M32	"SESR DE DVP8"	CW	(BCI)
6977	2-10-2012	1535	Tue	M03	796 31 41534	CW	(HFD)
6977	6-10-2012	1535	Sat	M03	796/31 5FGs ends 000	CW	(Q-HOL)
6977	10-10-2012	1535	Wed	M03	798/00	CW	(tING)
6977	13-10-2012	1535	Sat	M03	798/00 = = 0 0 0	CW	(MPJ)
6977	13-10-2012	1535	Sat	M03	798/00 = = 000	CW	(Q-HOL)
6977	16-10-2012	1535	Tue	M03	798/00	CW	(HS2)
6977	20-10-2012	1535	Sat	M03	798/00 = = 0 0 0	CW	(MPJ)
6977	27-10-2012	1535	Sat	M03	798/00	CW	(Q-HOL)
7038.8	1-10-2012	0729	Mon	MX	Beacon "P"	CW	(AB)
7038.8	2-10-2012	1521	Tue	MX	Beacon "P"	CW	(AB)
7038.8	6-10-2012	0723	Sat	MX	Beacon "P"	CW	(AB)
7038.9	6-10-2012	0723	Sat	MX	Beacon "S"	CW	(AB)
7039	1-10-2012	0512	Mon	MX	Beacon "C"	CW	(AB)
7317	2-10-2012	0915	Tue	S11a	484/00 konec	USB	(AB)
7317	12-10-2012	0915	Fri	S11a	287/33	USB	(Q-HOL)
7317	19-10-2012	0915	Fri	S11a	484/00	USB	(AB)
7335	3-10-2012	0730	Wed	S06s	745 293 6 05899 52343 70628 42432 56075 56281 293 6 00000	USB	(AB)
7340	2-10-2012	1010	Tue	S06s	893 570 6 05899 50387 45847 23013 89858 52343 570 6 00000	USB	(AB)
7340	9-10-2012	1010	Tue	S06s	893 570 6 05899 50387 45847 23013 89858 52343 570 6 00000	USB	(AB)
7340	16-10-2012	1010	Tue	S06s	893 241 5 67534 67698 08964 31254 67562 241 5 00000	USB	(HS2)
7435	15-10-2012	1400	Mon	M51	ip 5LGs	CW	(LG2)
7437	15-10-2012	1705	Mon	M51	ip	CW	(FMB)
7449	3-10-2012	1045	Wed	E11	469/00 out	USB	(AB)
7449	16-10-2012	1045	Tue	E11	469/00	USB	(HS2)
7449	30-10-2012	1045	Tue	E11	576/00	USB	(FYM)
7462	2-10-2012	1920	Tue	XPA	Msg	MFSK	(AB)
7462	2-10-2012	1940	Tue	XPA	msg	MFSK	(HFD)
7462	9-10-2012	1940	Tue	XPA	Msg	MFSK	(AB)
7462	11-10-2012	1940	Thu	XPA	Msg	MFSK	(AB)
7462	16-10-2012	1940	Tue	XPA	Polytones numbers station	MFSK	(Q-HOL)
7462	18-10-2012	1920	Thu	XPA	ip	MFSK	(Q-HOL)
7462	23-10-2012	1942	Tue	XPA	4444444444 304 304 304 000 304 304 304 000 304 304 304 000 6 05673 00001 00000 10140	MFSK	(Q-HOL)
7462	30-10-2012	1940	Tue	XPA	304 304 304 000 (R) 04567 00001 00000 10140	MFSK	(Q-HOL)
7462.5	31-10-2012	1540	Wed	M12	839 839 839 1	CW	(FYM)
7463	3-10-2012	1540	WED	M12	839 1 513 55 83955	CW	(FN)
7463	3-10-2012	1540	Wed	M12	839 1	CW	(HFD)
7463	10-10-2012	1540	WED	M12	839 1 967 99 71974	CW	(FN)

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7463	24-10-2012	1540	WED	M12	839 1 722 119 08895	CW	(FN)
7463	31-10-2012	1540	WED	M12	839 1 193 89 63430	CW	(FN)
7482	26-10-2012	1710	Fri	M42	Russian Gov/Intel. 30 blocks recorded commencing &x7d,12,b0,e6,00. Synchronous system measured at 200bps	FSK 200/1000	(MPJ)
7516	4-10-2012	2010	Thu	E07	584 1 782 61 40809	AM	(HFD)
7516	4-10-2012	2010	Thu	E07	584 584 584 1 782 61 782 61 40809 88668 ... 44710 000 000	AM	(tiNG)
7516	18-10-2012	2010	Thu	E07	584 616 78 86090	AM	(HFD)
7582	1-10-2012	0326	Mon	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW	(JPL-HK)
7582	2-10-2012	0130	Tue	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW	(JPL-HK)
7582	2-10-2012	1055	Tue	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW	(JPL-HK)
7582	3-10-2012	0114	Wed	M89	VVVV UGT COMM BT BT 2088/0930/Z46/8398 AR AR. V 7NPE (x3) DE QV5B (x2) //8110	CW	(JPL-HK)
7582	3-10-2012	1017	Wed	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW	(JPL-HK)
7582	8-10-2012	0204	Mon	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW	(JPL-HK)
7582	14-10-2012	0040	Sun	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW	(JPL-HK)
7582	14-10-2012	0125	Sun	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW	(JPL-HK)
7582	14-10-2012	2333	Sun	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW	(JPL-HK)
7582	15-10-2012	0340	Mon	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW	(JPL-HK)
7582	17-10-2012	0027	Wed	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW	(JPL-HK)
7582	18-10-2012	0348	Thu	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW	(JPL-HK)
7582	19-10-2012	0012	Fri	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW	(JPL-HK)
7582	19-10-2012	2343	Fri	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW	(JPL-HK)
7582	20-10-2012	0345	Sat	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW	(JPL-HK)
7582	22-10-2012	0140	Mon	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW	(JPL-HK)
7582	22-10-2012	0226	Mon	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL-HK)
7582	23-10-2012	0017	Tue	M89	V 7NPE (x3) DE QV5B (x2)	CW	(JPL-HK)
7582	23-10-2012	0136	Tue	M89	V 7NPE (x3) DE QV5B (x2) VV UGT COMM BT 2676/1005/Z46/8398 AR AR (x2)	CW	(JPL-HK)
7582	23-10-2012	0302	Tue	M89	V 7NPE (x3) DE QV5B (x2)	CW	(JPL-HK)
7582	25-10-2012	0313	Thu	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL-HK)
7582	25-10-2012	0405	Thu	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL-HK)
7582	26-10-2012	2351	Fri	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW	(JPL-HK)
7582	29-10-2012	1015	Mon	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW	(JPL-HK)
7602	30-10-2012	2012	Tue	M89	V DKG6 DKG6 DKG6 de 3A7D 3A7D	CW	(FN)
7605	3-10-2012	0820	Wed	S06s	471 (R) 830 5 96111 10544 98003 68909 15279 830 5 00000	USB	(AB)
7607	1-10-2012	1257	Mon	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	(JPL-HK)
7607	1-10-2012	1341	Mon	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	(JPL-HK)
7607	1-10-2012	1749	Mon	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	(JPL-HK)
7607	1-10-2012	2131	Mon	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	(JPL-HK)
7607	3-10-2012	2227	Wed	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL-HK)
7607	4-10-2012	1225	Thu	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL-HK)
7607	4-10-2012	1332	Thu	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL-HK)
7607	4-10-2012	2156	Thu	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL-HK)
7607	5-10-2012	1200	Fri	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL-HK)
7607	5-10-2012	1406	Fri	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL-HK)
7607	5-10-2012	1531	Fri	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL-HK)
7607	5-10-2012	1809	Fri	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL-HK)
7607	5-10-2012	1951	Fri	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL-HK)
7607	6-10-2012	1215	Sat	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL-HK)
7607	6-10-2012	1525	Sat	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL-HK)
7607	6-10-2012	1931	Sat	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL-HK)
7607	7-10-2012	1513	Sun	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL-HK)
7607	7-10-2012	1742	Sun	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL-HK)
7607	7-10-2012	2044	Sun	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL-HK)
7607	8-10-2012	1359	Mon	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	(JPL-HK)
7607	8-10-2012	1734	Mon	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	(JPL-HK)

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7607	8-10-2012	1942	Mon	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	(JPL-HK)
7607	8-10-2012	2205	Mon	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	(JPL-HK)
7607	9-10-2012	1255	Tue	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	(JPL-HK)
7607	9-10-2012	1345	Tue	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	(JPL-HK)
7607	9-10-2012	2007	Tue	M89	H WUN (x3) DE G6G (x2) (Cont'd) string appears to be hand sent. Equipment problems? //4590	CW	(JPL-HK)
7607	9-10-2012	2125	Tue	M89	H WUN (x3) DE G6G (x2) (Cont'd) string appears to be hand sent. Equipment problems? //4590	CW	(JPL-HK)
7607	14-10-2012	1537	Sun	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	(JPL-HK)
7607	14-10-2012	2242	Sun	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	(JPL-HK)
7607	15-10-2012	2137	Mon	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL-HK)
7607	16-10-2012	1250	Tue	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL-HK)
7607	16-10-2012	1446	Tue	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL-HK)
7607	17-10-2012	1136	Wed	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL-HK)
7607	17-10-2012	1636	Wed	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL-HK)
7607	19-10-2012	2004	Fri	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL-HK)
7607	19-10-2012	2025	Fri	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL-HK)
7607	20-10-2012	1147	Sat	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL-HK)
7607	20-10-2012	1359	Sat	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL-HK)
7607	23-10-2012	1130	Tue	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	(JPL-HK)
7607	23-10-2012	1539	Tue	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	(JPL-HK)
7607	23-10-2012	1730	Tue	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	(JPL-HK)
7607	23-10-2012	1809	Tue	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	(JPL-HK)
7607	23-10-2012	1930	Tue	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	(JPL-HK)
7607	23-10-2012	2034	Tue	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL-HK)
7607	24-10-2012	1159	Wed	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	(JPL-HK)
7607	24-10-2012	1553	Wed	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	(JPL-HK)
7607	24-10-2012	1738	Wed	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	(JPL-HK)
7607	24-10-2012	2127	Wed	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	(JPL-HK)
7607	25-10-2012	1707	Thu	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	(JPL-HK)
7607	26-10-2012	1628	Fri	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL-HK)
7607	26-10-2012	1827	Fri	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL-HK)
7607	31-10-2012	1227	Wed	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL-HK)
7607	31-10-2012	1327	Wed	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL-HK)
7607	31-10-2012	1700	Wed	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL-HK)
7607	31-10-2012	1926	Wed	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL-HK)
7612	6-10-2012	1605	Sat	S06	134 0	AM	(HFD)
7612	20-10-2012	1605	Sat	S06	134 0	AM	(HFD)
7612	27-10-2012	1605	Sat	S06	134 134 134 00000	USB	(FYM)
7612	27-10-2012	1605	Sat	S06	OM/RR, 134 134 134 00000	AM	(Q-HOL)
7651	9-10-2012	2209	Tue	M32	c/s VPXU	CW	(BCI)
7654	14-10-2012	0714	Sun	V13	New Star in progress. New sked	USB	(AB-HK)
7654	14-10-2012	0718	Sun	V13	New Star #4	USB	(Q-HK)
7654	14-10-2012	0800	Sun	V13	New Star #4. Tune followed by coded messages. New sked	USB	(AB-HK)
7654	14-10-2012	0800	Sun	V13	New Star #4, flute tune follow by a Chinese YL	USB	(Q-HK)
7684	11-10-2012	0650	THU	M12	761 000	CW	(FN)
7684	25-10-2012	0650	THU	M12	761 000	CW	(FN)
7688	14-10-2012	1200	Sun	V13	New Star. Tune + coded messages. New sked	USB	(AB-HK)
7688	14-10-2012	1300	Sun	V13	New Star. Tune + coded messages. New sked	USB	(AB-HK)
7688	14-10-2012	1300	Sun	V13	New Star. YL Chinese. In progress	USB	(MPJ-HK)
7688	15-10-2012	0503	Mon	V13	New Star in progress	USB	(AB-HK)
7688	21-10-2012	0608	Sun	V13	New Star in progress	USB	(AB-HK)
7688	21-10-2012	1217	Sun	V13	New Star ip	USB	(Q-HK)
7688	21-10-2012	1300	Sun	V13	New Star. Intro and message	USB	(Q-HK)
7688	21-10-2012	1300	Sun	V13	New Star. Flute tune follow by a Chinese YL	USB	(Q-HK)
7688	21-10-2012	1303	Sun	V13	New Star in progress	USB	(AB-HK)

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7726	30-10-2012	2100	Tue	M42	Russian Gov/Intel. Repeated blocks of 4	FSK 200/1000	(MPJ)
7763	25-10-2012	1804	Thu	M32a	Russian Navy Floating Workshop PM-56 "RCV DE RIR98 458 18 25 2200 458 = SML FOR RJE73 RJH45 = 25181 99346 10346 41598 63404 10230 40100 58013 70222 86420 22212 00190 20000 88000 25014 = + RIR98 K"	CW	(Tom-I)
7795	26-10-2012	0700	Fri	S06s	196 870 5 30788 31452 49046 84446 88424 870 5 00000	USB	(AB)
7816	22-10-2012	1042	Mon	M89	In chat/tfc "MSGPBL NR 314 CK 95 55 0919 1600 RMKS 2328 TO 2412 R K"	CW	(JPL-HK)
7850	31-10-2012	0315	Wed	E11	253/00	USB	(BCA)
7861	14-10-2012	1518	Sun	M32	Russian Mil. ".. de ral2 qsa? k"	CW	(Q-HOL)
7863	2-10-2012	2000	Tue	E11c	757/0201/00 R	USB	(tiNG)
7863	4-10-2012	1935	Thu	E11c	758/0000/00	USB	(tiNG)
7863	9-10-2012	2000	Tue	E11c	757/2200/00	USB	(tiNG)
7863	23-10-2012	1924	Tue	E11	758/00	USB	(FN)
7904	22-10-2012	1740	Mon	M12	257 1 3063 73 51441 00250 ... 19555 52323 0 0 0 0 0	CW	(MPJ)
7914	14-10-2012	1552	Sun	M21	Russian Air Defence (PVO) =99?1952?9????? =99?1955?9????? =99?1957?9?????	CW	(Q-HOL)
7931	1-10-2012	1720	MON	M12	257 1 6956 72 51777	CW	(FN)
7931	1-10-2012	1820	MON	M12	257 1 5586 68 61437	CW	(FN)
7931	1-10-2012	1820	Mon	M12	257 1	CW	(HFD)
7931	1-10-2012	1920	MON	M12	257 1 4545 90 54547	CW	(FN)
7931	1-10-2012	1920	Mon	M12	257 1	CW	(HFD)
7931	4-10-2012	1720	THU	M12	257 1 4803 82 85710	CW	(FN)
7931	4-10-2012	1920	THU	M12	257 1 9409 43 73864	CW	(FN)
7931	4-10-2012	1920	Thu	M12	257 257 257 1 9409 43 73864 16556 76502 ... 76688 90295 000 000	CW	(Q-HOL)
7931	8-10-2012	1720	MON	M12	257 1 7176 72 08731	CW	(FN)
7931	8-10-2012	1820	MON	M12	257 1 5127 63 60803	CW	(FN)
7931	8-10-2012	1920	MON	M12	257 1 5056 78 65568	CW	(FN)
7931	8-10-2012	1920	Mon	M12	257 257 257 1 (R) 5t56 78 65568 tt432 92483 ... 39261 16894 25127 ttt ttt	CW	(Q-HOL)
7931	11-10-2012	1720	Thu	M12	257 257 257 1 9811 49 37063 72656 40205 ... 86472 77495 000 000	CW	(AB/Q-HOL)
7931	11-10-2012	1720	THU	M12	257 1 6249 55 38171	CW	(FN)
7931	11-10-2012	1720	Thu	M12	257/1 6249 55. 5FGs	CW	(MPJ)
7931	11-10-2012	1920	THU	M12	257 1 9811 49 37063	CW	(FN)
7931	15-10-2012	1920	Mon	M12	257 1 5036 99 72486 06608 ... 0 0 0	CW	(MPJ)
7931	18-10-2012	1923	Thu	M12	ip, 5f, "msg ttt ttt"	CW	(Q-HOL)
7931	22-10-2012	1720	MON	M12	257 1 3063 73 51414	CW	(FN)
7931	22-10-2012	1720	Mon	M12	257 1 3063 73 51441 00250 ... 19555 52323 0 0 0 0 0	CW	(MPJ)
7931	22-10-2012	1820	MON	M12	257 1 2743 55 55514	CW	(FN)
7931	22-10-2012	1820	Mon	M12	257 1 2743 55 51441 88367 ... 17520 58180 0 0 0 0 0	CW	(MPJ)
7931	22-10-2012	1920	MON	M12	257 1 7299 68 87605	CW	(FN)
7931	22-10-2012	1920	Mon	M12	5f, "257 257 257 1 (R)"	CW	(Q-HOL)
7931	25-10-2012	1720	THU	M12	257 1 6982 87 34138	CW	(FN)
7931	25-10-2012	1920	THU	M12	257 1 3769 67 71259	CW	(FN)
7931	29-10-2012	1720	MON	M12	257 1 2647 78 67450	CW	(FN)
7931	29-10-2012	1720	Mon	M12	256 1 2647 78 67450 47209 ... 07527 79712 00000	CW	(MPJ)
7931	29-10-2012	1820	MON	M12	257 1 6156 40 13453	CW	(FN)
7931	29-10-2012	1920	MON	M12	257 1 2798 69 96569	CW	(FN)
7931	29-10-2012	1921	Mon	M12	ip, 5f, "msg ttt ttt", ET 1926 (29Oct12) (Q-HOL)	CW	(Q-HOL)
7943	1-10-2012	1940	Mon	E07	229 1	AM	(HFD)
7943	3-10-2012	1940	Wed	E07	229 1 230 63 18308 76197 etc	USB	(AB/Spec)
7963	30-10-2012	1910	Tue	M12	124 124 1 (R) 8371 59 (R) msg ttt ttt	CW	(Q-HOL)
7964	1-10-2012	1340	MON	M12	839 1 513 55 83955	CW	(FN)
7964	8-10-2012	1340	MON	M12	839 1 967 99 71974	CW	(FN)
7964	8-10-2012	1340	Mon	M12	839 1	CW	(HFD)

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7964	29-10-2012	1340	MON	M12	839 1 193 89 63430	CW	(FN)
8005	2-10-2012	0801	Tue	M42	Russian diplo.	CROWD-36	(WP3)
8006	18-10-2012	1900	Thu	M42	Russian Gov/Intel.	Baudot 200/500	(FMB)
8007	4-10-2012	1900	Thu	M42	Russian Intel. Msg 6 55	FSK 200/500	(HFD)
8007	24-10-2012	1559	Wed	M89	8457 87EEE K K II III R MKS K K 87O4 8457 87O4 K K III	CW	(JPL-HK)
8007	25-10-2012	0001	Thu	M89	OHA1 AR (Voice came up on freq) R QSL K QSA 1 K Voice on freq again	CW	(JPL-HK)
8007	25-10-2012	1900	Thu	M42	Russian Gov/Intel. 00000+++++++162)5761 repeated	FSK 200/500	(MPJ)
8016	15-10-2012	1658	Mon	M51	ip	CW	(FMB)
8016	28-10-2012	1724	Sun	M51	FAV22: 8 RÚgiment de Transmission 1724 CW, ip, 5fG and text	CW	(Q-HOL)
8016.1	30-10-2012	1906	Tue	M51	8 RÚgiment de Transmission 5fG	CW	(Q-HOL)
8030.97	25-10-2012	1154	Thu	CHN	Presumed MFA Beijing. 2045 4029 1287 8019 0697 8996 2057 2387 1087 1063 etc. (See N&O 181)	LSB 4+4 QPSK 75/3000	(EW)
8030.97	29-10-2012	1016	Mon	CHN	Unid Chinese, repeats =KCEH65305944 many times	LSB 4+4 QPSK 75/3000	(EW)
8040	2-10-2012	1101	Tue	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //6773	CW	(JPL-HK)
8040	3-10-2012	2229	Wed	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //6773	CW	(JPL-HK)
8040	6-10-2012	1041	Sat	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //6773	CW	(JPL-HK)
8040	8-10-2012	1101	Mon	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //6773	CW	(JPL-HK)
8040	14-10-2012	2246	Sun	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //6773	CW	(JPL-HK)
8040	14-10-2012	2339	Sun	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //6773	CW	(JPL-HK)
8040	17-10-2012	1142	Wed	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //6773	CW	(JPL-HK)
8040	22-10-2012	1034	Mon	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL-HK)
8040	23-10-2012	1134	Tue	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //6773	CW	(JPL-HK)
8040	23-10-2012	2235	Tue	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //6773	CW	(JPL-HK)
8047	3-10-2012	1700	Wed	M12	463 1 5FGs	CW	(AB)
8047	3-10-2012	1700	WED	M12	463 1 5933 49 83371	CW	(FN)
8047	3-10-2012	1700	Wed	M12	463 1	CW	(HFD)
8047	10-10-2012	1700	WED	M12	463 1 1628 41 18321	CW	(FN)
8047	24-10-2012	1700	WED	M12	463 1 4237 60 23972	CW	(FN)
8047	31-10-2012	1700	WED	M12	463 1 6131 73 26028	CW	(FN)
8047	31-10-2012	1700	Wed	M12	463 463 463 1	CW	(FYM)
8062	2-10-2012	1920	Tue	XPA	Msg	MFSK	(AB)
8062	2-10-2012	1920	Tue	XPA	msg	MFSK	(HFD)
8062	9-10-2012	1920	Tue	XPA	Msg	MFSK	(AB)
8062	16-10-2012	1900	Tue	XPA	Polytones numbers station	MFSK	(Q-HOL)
8062	16-10-2012	1920	Tue	XPA	304 1 00650 00081 57170 36611 .... 30735	MFSK	(HS2)
8062	18-10-2012	1920	Thu	XPA	304 304 304 1 (R) msg	MFSK	(Q-HOL)
8062	23-10-2012	1920	Tue	XPA	4444444444 304 304 304 000 304 304 304 000 304 304 304 000 6 05673 00001 00000 10140	MFSK	(Q-HOL)
8062	30-10-2012	1920	Tue	XPA	304 304 304 000 (R) 04567 00001 00000 10140	MFSK	(Q-HOL)
8095	15-10-2012	1742	Mon	M14	343	CW	(FMB)
8095	16-10-2012	0556	Tue	M08a	(ip) 55t15 525 55555	CW	
8100	29-10-2012	1120	Mon	X06c	Mazielka. Sequence: 123456	USB	(HS2)
8110	1-10-2012	0326	Mon	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW	(JPL-HK)
8110	2-10-2012	0130	Tue	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW	(JPL-HK)
8110	2-10-2012	1055	Tue	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW	(JPL-HK)
8110	3-10-2012	0114	Wed	M89	VVVV UGT COMM BT BT 2088/0930/Z46/8398 AR AR. V 7NPE (x3) DE QV5B (x2) //7582	CW	(JPL-HK)
8110	3-10-2012	1017	Wed	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW	(JPL-HK)
8110	6-10-2012	0139	Sat	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL-HK)
8110	8-10-2012	0203	Mon	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW	(JPL-HK)
8110	14-10-2012	0040	Sun	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW	(JPL-HK)
8110	14-10-2012	0125	Sun	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW	(JPL-HK)
8110	14-10-2012	2333	Sun	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW	(JPL-HK)
8110	15-10-2012	0340	Mon	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW	(JPL-HK)



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8110	17-10-2012	0027	Wed	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW	(JPL-HK)
8110	18-10-2012	0348	Thu	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW	(JPL-HK)
8110	19-10-2012	0012	Fri	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW	(JPL-HK)
8110	19-10-2012	2343	Fri	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW	(JPL-HK)
8110	20-10-2012	0345	Sat	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW	(JPL-HK)
8110	22-10-2012	0140	Mon	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW	(JPL-HK)
8110	24-10-2012	0207	Wed	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL-HK)
8110	26-10-2012	2351	Fri	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW	(JPL-HK)
8110	29-10-2012	1015	Mon	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW	(JPL-HK)
8116	2-10-2012	1910	TUE	M12	124 1 2206 53 61374	CW	(FN)
8116	2-10-2012	1910	Tue	M12	124 1	CW	(HFD)
8116	4-10-2012	1740	THU	M12	124 1 2240 76 05177	CW	(FN)
8116	4-10-2012	1840	THU	M12	124 1 6757 61 49090	CW	(FN)
8116	4-10-2012	1840	Thu	M12	124 1	CW	(HFD)
8116	5-10-2012	1840	FRI	M12	124 1 5358 87 48 509	CW	(FN)
8116	5-10-2012	1840	Fri	M12	124 1	CW	(HFD)
8116	9-10-2012	1910	Tue	M12	124 1 5FGs 000 000	CW	(AB)
8116	11-10-2012	1740	Thu	M12	124 1 5FGs	CW	(AB)
8116	11-10-2012	1740	THU	M12	124 1 4635 74 58556	CW	(FN)
8116	11-10-2012	1840	THU	M12	124 1 4589 72 65800	CW	(FN)
8116	12-10-2012	1809	Fri	M24	Unid. ip, 5FGs = 805 805 92 92 00000. Short zero's	CW	(Q-HOL)
8116	12-10-2012	1840	FRI	M12	124 1 4475 75 47791	CW	(FN)
8116	12-10-2012	1840	Fri	M12	124 124 124 1 (R) 4475 75 (R) msg 000 000	CW	(Q-HOL)
8116	16-10-2012	1910	Tue	M12	124 124 124 1 (R) msg 000 000	CW	(Q-HOL)
8116	19-10-2012	1840	Fri	M12	5f, "124 124 124 1 (R) 737 47 (R) msg ttt ttt"	CW	(Q-HOL)
8116	23-10-2012	1830	Tue	M12	124 1 2929 50 468959(?) 30669 ... 59035 78865 000 000	CW	(MPJ)
8116	23-10-2012	1910	TUE	M12	124 1 2929 50 00004	CW	(FN)
8116	23-10-2012	1910	Tue	M12	5f, "124 124 124 1 (R) 2929 5t (R) msg ttt ttt"	CW	(Q-HOL)
8116	25-10-2012	1740	THU	M12	124 1 3973 72 51679	CW	(FN)
8116	25-10-2012	1740	Thu	M12	124/1 3973 72 51679 00981 ... 24862 48616 0 0 0 0 0	CW	(MPJ)
8116	25-10-2012	1840	THU	M12	124 1 1711 42 50457	CW	(FN)
8116	26-10-2012	1808	Fri	M24	ip, 5FSG, "...39457 39457 63t51 63t51 15718 15718 5812t 5812t 31365 31365 6531t 6531t t6389t 6389 = = 967 9671t3 1t3 ttttt	CW	(Q-HOL)
8116	26-10-2012	1840	FRI	M12	124 1 540 47 32484	CW	(FN)
8116	26-10-2012	1840	Fri	M12	124 1 540 47 32484 79881 ... 77541 32922 000000	CW	(MPJ/Q)
8116	30-10-2012	1910	TUE	M12	124 1 8371 59 54345	CW	(FN)
8116	30-10-2012	1910	Tue	M12	124 1 8375 59 54345 46147 ... 52591 72823 00000	CW	(MPJ)
8117	25-10-2012	1832	Thu	M01b	201 714 30 = 08319, spurious ?	CW	(FN)
8123	20-7-2012	1740		E07	441 1 478 93 45095 65158 .... 40855 000 000	AM	(HS2/Q)
8123	3-10-2012	1740	Wed	E07	441 1	AM	(HFD)
8123	7-10-2012	1740	Sun	E07	441 1 478 93 45095 65158 15649 ... 31702 18989 40855 000 000	AM	(AB)
8123	21-10-2012	1740	Sun	E07	OM, EE, "441 441 441 1 (R) 475 69 (R) msg 000 000"	AM	(Q/HS2)
8162	13-10-2012	1600	Sat	S06	OM, RR, 134 134 134 00000	AM	(Q-HOL)
8162	18-10-2012	0640	Thu	M32c	Russian Air Force "W" marker	CW	(Tom)
8162	18-10-2012	0643	Thu	M32c	4ASU: Russian Air Force WYXV DE 4ASU K	CW	(Tom)
8162	18-10-2012	0700	Thu	M32c	Russian Air Force "W" marker	CW	(Tom)
8162	18-10-2012	0840	Thu	M32c	Russian Air Force "W" marker	CW	(Tom)
8162	18-10-2012	0854	Thu	M32c	QZ6Y: Russian Air Force ATIU DE QZ6Y K	CW	(Tom)
8162	18-10-2012	0900	Thu	M32c	Russian Air Force "W" marker	CW	(Tom)
8162	18-10-2012	1340	Thu	M32c	Russian Air Force "W" marker	CW	(MPJ)
8162	18-10-2012	1358	Thu	M32c	Russian Air Force "SZJS de QZ6Y K. QZ6Y QOE QRV K. RPT K. QZ6Y = 081 060 026 478 409 K. OK K. WYXV de QZ6Y K. BKs. WYXV de QZ6Y RPT K. QRV K. = 287 353 829 424 409 K" Then works ATIV.	CW	(MPJ)
8162	18-10-2012	1714	Thu	M32c	QZ6Y: Russian Air Force SZJS DE QZ6Y = 917 013 799 127 145 839 018 K	CW	(Tom)
8162	18-10-2012	1821	Thu	M32c	4ASU: Russian Air Force SZJS DE 4ASU = 917 013 799 127 145	CW	(Tom)

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					839 018 C ? K		
8162	18-10-2012	1909	Thu	M32c	4ASU: Russian Air Force OP2K DE 4ASU = 369 575 736 666 546 194 377 C ? K	CW	(Tom)
8164	18-10-2012	2102	Thu	M32	nnnnnn(... ) k	CW	
8186	26-9-2012	0755		SK01	Tx, faint signal; @0803 Extreme QRM, gave up	RDFT	(kc2ttk)
8186	20-10-2012	0800	Sat	SK01		RDFT	(BS3)
8192.5	31-10-2012	1520	Wed	M12	839 839 839 1	CW	(FYM)
8193	3-10-2012	1520	WED	M12	839 1 513 55 83955	CW	(FN)
8193	3-10-2012	1520	Wed	M12	839 1	CW	(HFD)
8193	10-10-2012	1520	WED	M12	839 1 967 99 71974	CW	(FN)
8193	24-10-2012	1520	WED	M12	839 1 722 119 08895	CW	(FN)
8193	31-10-2012	1520	WED	M12	839 1 193 89 63430	CW	(FN)
8194.3	31-10-2012	0024	Wed	XPA2		MFSK	(FYM)
8313	19-10-2012	2122	Fri	XSL	Japanese Navy a.k.a. Slot Machine	QPSK 1500bd	(AB-HK)
8345	30-9-2012	0910		M32a	Russian Navy: qtc to rit rjp30 249 18 30 1305 449 = for rmsz rjh74 = 30091 99682 10397 ... 22282 .. 30015 = + rjp30 k	CW	(WP3)
8345	30-9-2012	2135		M32a	Russian navy: RMMA clg RIW qsa3 k - qyt4 qsx 11513 k - 2145z qyt9 qsx 7788	CW	(WP3)
8345	1-10-2012	----	Mon	M32a	Russian Navy: RMMA clg RIW qyt9 qsa? k - qyt9 qsx 11513 ok? k - qyt9 qsx 8338 k - qyt9 qsx 10894 k - qyt9 qsa? k	CW	(WP3)
8345	1-10-2012	0948	Mon	M32a	Russian Navy: riw de rfh61 qsa2 k	CW	(WP3)
8345	2-10-2012	0627	Tue	M32a	Russian Navy: rit de rmma qsa? k	CW	(WP3)
8345	8-10-2012	2344	Mon	M32a	RIW DE RMMA QYT9 QSX 7944 OK? K. RMMA R K	CW	(WB5DYG)
8345	9-10-2012	0652	Tue	M32a	RKO81: Russian Navy Ship "Lena" clg RMP qsa? k	CW	(WP3)
8345	10-10-2012	1757	Wed	M32a	Russian Navy: xxx xxx BRANÍUGA 06942 81776 02140 00111 42977 95243 07012 00650 12145 k	CW	(WP3)
8345	22-10-2012	1805	Mon	M32a	Russian Navy Tug MB-304 "RCV DE RMYZ 691 17 22 2203 691 = SML FOR RJE73 RJH45 = 22181 99387 10250 4//9 70212 10200 40160 50000 70222 22252 00215 299// 399// 22013 = + RMYZ K"	CW	(Tom-I)
8345	25-10-2012	0006	Thu	M32a	Russian Navy Tug MB-304 "RCV DE RMYZ 527 17 25 0400 527 = SML FOR RJE73 RJH45 = 25001 99360 10157 41/98 /0902 10220 40150 50000 70200 22262 00250 20000 399// 25013 = + RMYZ K"	CW	(Tom-I)
8345	25-10-2012	1755	Thu	M32a	Russian Navy Destroyer Smetlivy "RCV DE RFH70 QYT 4 QSX 5472 / 8684 K"	CW	(Tom)
8494.8	1-10-2012	0729	Mon	MX	Beacon "P"	CW	(AB)
8494.8	2-10-2012	1521	Tue	MX	Beacon "P"	CW	(AB)
8494.8	6-10-2012	0723	Sat	MX	Beacon "P"	CW	(AB)
8494.8	7-10-2012	1819	Sun	MX	Beacon "P"	CW	(AB)
8494.9	1-10-2012	0729	Mon	MX	Beacon "S"	CW	(AB)
8494.9	6-10-2012	0723	Sat	MX	Beacon "S"	CW	(AB)
8494.9	7-10-2012	1819	Sun	MX	Beacon "S"	CW	(AB)
8495	1-10-2012	1522	Mon	MX	C: Beacon Moscow	CW	(MPJ)
8495	2-10-2012	1521	Tue	MX	Beacon "C"	CW	(AB)
8495	6-10-2012	0723	Sat	MX	Beacon "C"	CW	(AB)
8495	7-10-2012	1819	Sun	MX	Beacon "C"	CW	(AB)
8495.3	5-10-2012	0500	Fri	MX	Beacon "K" Petropavlovsk-Kamchatskiy	CW	(HS)
8497.8	1-10-2012	0729	Mon	MX	Beacon "L"	CW	(AB)
8497.8	2-10-2012	1521	Tue	MX	Beacon "L"	CW	(AB)
8497.8	3-10-2012	0855	Wed	MX	Beacon "L"	CW	(AB)
8497.8	6-10-2012	0723	Sat	MX	Beacon "L"	CW	(AB)
8497.8	9-10-2012	1927	Tue	MX	Beacon "L"	CW	(AB)
8497.8	14-10-2012	0709	Sun	MX	Beacon "L"	CW	(AB)
8497.8	19-10-2012	1828	Fri	MX	Beacon "L"	CW	(Q-HOL)
8588	19-10-2012	2122	Fri	XSL	Japanese Navy a.k.a. Slot Machine	QPSK 1500bd	(AB-HK)
8695	26-10-2012	0710	Fri	S06s	196 870 5 30788 31452 49046 84446 88424 870 5 00000	USB	(AB)
8703.5	19-10-2012	2122	Fri	XSL	Japanese Navy a.k.a. Slot Machine	QPSK 1500bd	(AB-HK)

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8789	2-10-2012	1057	Tue	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //10779	CW	(JPL-HK)
8789	3-10-2012	1026	Wed	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //10779	CW	(JPL-HK)
8789	3-10-2012	2340	Wed	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //10779	CW	(JPL-HK)
8789	6-10-2012	1037	Sat	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //10779	CW	(JPL-HK)
8789	8-10-2012	1057	Mon	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //10779	CW	(JPL-HK)
8789	14-10-2012	2335	Sun	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //10779	CW	(JPL-HK)
8789	17-10-2012	2315	Wed	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL-HK)
8789	19-10-2012	2345	Fri	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL-HK)
8789	20-10-2012	1133	Sat	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //10779	CW	(JPL-HK)
8789	22-10-2012	1028	Mon	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //10779	CW	(JPL-HK)
8789	24-10-2012	2336	Wed	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //10779	CW	(JPL-HK)
8789	26-10-2012	2353	Fri	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL-HK)
8789	31-10-2012	1016	Wed	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //10779	CW	(JPL-HK)
8797.8	7-10-2012	1819	Sun	MX	Beacon "L"	CW	(AB)
8816	2-10-2012	1304	Tue	M32b	Russan Naval Aviation: 26747 qtc to rf94 rcb 26747 qto 1200 qrd XLLV XMWB qre 1430 qah 5800 qbd 4200	CW	(WP3)
8816	3-10-2012	0932	Wed	M32b	Russian Naval Air Transport: 11605 qtc to rjf94 rjc38 qto 1250 qrd XLWF XLLV qbd 10700	CW	(WP3)
8816	3-10-2012	0932	Wed	M32b	Russian Naval Air Transport: 26747 qtc to rjf94 rcb qto 1221 qrd XMWB XLLV qre 1510 qah 5500	CW	(WP3)
8816	3-10-2012	0932	Wed	M32b	Russian Naval Air Transport: 11605 qtc to rjc38 rjf94 qto 0922 qrd XLLV XUMO qre1120 qbd 12000	CW	(WP3)
8816	5-10-2012	0808	Fri	M32b	26747: Russian Naval Air Transport AN-26 qtc to rjf94 rcb qto 0620 qrd XLOS XMWB qre 0940 qah 5800 qbd 4800	CW	(WP3)
8816	5-10-2012	1035	Fri	M32b	11605: Rus Naval Air Transport AN-12 RUS 1035 CW qtc to rjf94 rjc38 qto 1027 qrd ULAA XLWF qre 1200 qbd 1270	CW	(WP3)
8816	5-10-2012	1359	Fri	M32b	26747: Rus Naval Air Transport AN-26 RUS 1359 CW qtc to rcb qto 1335 qrd XUMO XLOS qre 1530 qah 5200 qbd 4800	CW	(WP3)
8816	5-10-2012	1414	Fri	M32b	11605: Rus Naval Air Transport AN-12 RUS 1414 CW qtc to rjf94 rjc38 qto 1408 qrd XLMO ULAA qre 1525 qbd 1130	CW	(WP3)
8816	5-10-2012	1658	Fri	M32b	26747: Rus Naval Air Transport AN-26 RUS 1658 CW qtc to rjf94 rcb qto 1645 qrd XRKE XUMO qre 1940 qah 5800 qbd 4700	CW	(WP3)
8816	9-10-2012	1105	Tue	M32b	74455: Russian Naval Air Transport RUS 1105 CW qtc to RJF94 RCB qto 1008 qrd XLLV XMWB qth 5725 2008 qtr 1058 qah 5800 qbd 0500 - qth 5955 2548 qtr 1204 qah 5800 qal XLLV 1247 qbd 0300 - qqm XLLV 1247 sk	CW	(WP3)
8910	22-10-2012	1915	Mon	M01b	771 2x 4455	CW	(HFD)
9063	2-10-2012	0626	Tue	SK01	Tx, strong QRN, Tx every 5 minutes	RDFT	(kc2ttk)
9124	25-9-2012	0602		SK01	Txs every 5 minutes; @0625 Off air	RDFT	(kc2ttk)
9124	2-10-2012	0601	Tue	SK01	@0605 SK01 RDFT Tx strong signal, improving with each subsequent Tx (every 5 mintues); @0626 Off air	RDFT	(kc2ttk)
9145	8-10-2012	1200	Mon	S06s	831 572 6 52401 63919 92699 14600 74248 48754 572 6 00000	USB	(HS2)
9145	15-10-2012	1200	Mon	S06s	831 459 6 36453 78293 89216 56472 19982 08760 459 6 00000	USB	(HS2)
9150	2-10-2012	1115	Tue	M03	272/00 out	CW	(AB)
9150	7-10-2012	1322	Sun	M03	437/36	CW	(Q-HOL)
9150	11-10-2012	1320	Thu	M03	437/00 == 000	CW	(MPJ)
9150	14-10-2012	1320	Sun	M03	438/00 == 0 0 0	CW	(MPJ)
9150	16-10-2012	1115	Tue	M03	272/00	CW	(MPJ/HS2)
9150	21-10-2012	1320	Sun	M03	437/00	CW	(FYM)
9150	21-10-2012	1320	Sun	M03	437/00	CW	(HS2)
9150	21-10-2012	1320	Sun	M03	437/00 == 0 0 0	CW	(Q/MPJ)
9150	24-10-2012	1115	Wed	M03	650/00 = 000	CW	(MPJ)
9150	25-10-2012	1320	Thu	M03	437/00 == 0 0 0	CW	(MPJ)
9150	28-10-2012	1320	Sun	M03	437/00	CW	(Q-HOL)
9150	30-10-2012	1109	Tue	M03	272/00 == 0 0 0	CW	(MPJ)
9153	6-10-2012	1356	Sat	V26	ip, 3fG, Chinese YL says something as a rhyme using Chinese/EE language, EOT 1411 [seems she said "END OF MESSAGE"]	USB	(Q-HK)
9176	1-10-2012	1700	MON	M12	257 1 6956 72 51777	CW	(FN)

frequency	date	UTC	day	enigma	remarks	mode	contributor
9176	1-10-2012	1704	Mon	M12	in progress	CW	(AB)
9176	1-10-2012	1800	MON	M12	257 1 5586 68 61437	CW	(FN)
9176	1-10-2012	1800	Mon	M12	257 1	CW	(HFD)
9176	1-10-2012	1900	MON	M12	257 1 4545 90 54547	CW	(FN)
9176	1-10-2012	1900	Mon	M12	257 1	CW	(HFD)
9176	1-10-2012	1900	Mon	M12	257 257 257 1 4545 90 + 5FGs ends 000 000	CW	(Q-HOL)
9176	4-10-2012	1700	THU	M12	257 1 4803 82 85710	CW	(FN)
9176	4-10-2012	1900	THU	M12	257 1 9409 43 73864	CW	(FN)
9176	4-10-2012	1900	Thu	M12	257 257 257 1 9409 43 73864 16556 76502 ... 76688 90295 000 000	CW	(Q-HOL)
9176	8-10-2012	1700	MON	M12	257 1 7176 72 08731	CW	(FN)
9176	8-10-2012	1800	MON	M12	257 1 5127 63 60803	CW	(FN)
9176	8-10-2012	1900	MON	M12	257 1 5056 78 65568	CW	(FN)
9176	8-10-2012	1900	Mon	M12	257 257 257 1 (R) 5t56 78 65568 tt432 92483 ... 39261 16894 25127 ttt ttt	CW	(Q-HOL)
9176	11-10-2012	1700	Thu	M12	257 257 257 1 9811 49 37063 72656 40205 ... 86472 77495 000 000	CW	(AB/Q-HOL)
9176	11-10-2012	1700	THU	M12	257 1 6249 55 38171	CW	(FN)
9176	11-10-2012	1700	Thu	M12	257/1 6249 55. 5FGs	CW	(MPJ)
9176	11-10-2012	1900	THU	M12	257 1 9811 49 37063	CW	(FN)
9176	15-10-2012	1700	Mon	M12	257 1 4403 72 17017 92486 ... 0 0 0 0 0 0	CW	(MPJ)
9176	15-10-2012	1900	Mon	M12	257 1 5036 99 72486 06608 ... 0 0 0	CW	(MPJ)
9176	18-10-2012	1903	Thu	M12	ip, 5f, "msg ttt ttt"	CW	(Q-HOL)
9176	22-10-2012	1700	MON	M12	257 1 3063 73 51414	CW	(FN)
9176	22-10-2012	1700	Mon	M12	257 1 3063 73 51441 00250 ... 19555 52323 0 0 0 0 0 0	CW	(MPJ)
9176	22-10-2012	1800	MON	M12	257 1 2743 55 55514	CW	(FN)
9176	22-10-2012	1800	Mon	M12	257 1 2743 55 51441 88367 ... 17520 58180 0 0 0 0 0 0	CW	(MPJ)
9176	22-10-2012	1900	MON	M12	257 1 7299 68 87605	CW	(FN)
9176	22-10-2012	1900	Mon	M12	5f, "257 257 257 1 (R)"	CW	(Q-HOL)
9176	25-10-2012	1700	THU	M12	257 1 6982 87 34138	CW	(FN)
9176	25-10-2012	1900	THU	M12	257 1 3769 67 71259	CW	(FN)
9176	29-10-2012	1700	MON	M12	257 1 2647 78 67450	CW	(FN)
9176	29-10-2012	1700	Mon	M12	256 1 2647 78 67450 47209 ... 07527 79712 00000	CW	(MPJ)
9176	29-10-2012	1800	MON	M12	257 1 6156 40 13453	CW	(FN)
9176	29-10-2012	1800	Mon	M12	257 1 6156 40 6156 stops then restarts, 1_453 75932 ... 46149 15474 00000	CW	(Q/MPJ)
9176	29-10-2012	1900	MON	M12	257 1 2798 69 96569	CW	(FN)
9180	22-10-2012	1815	Mon	M01b	ip ends 719 719 3 0 30	CW	(HFD)
9213	20-10-2012	0639	Sat	M51	ip	CW	(FMB)
9216	17-10-2012	0620	Wed	M51	ip	CW	(FMB)
9222.5	31-10-2012	1500	Wed	M12	839 839 839 1	CW	(FYM)
9223	3-10-2012	1500	Wed	M12	839 1 5FGs	CW	(AB)
9223	3-10-2012	1500	WED	M12	839 1 513 55 83955	CW	(FN)
9223	3-10-2012	1500	Wed	M12	839 1	CW	(HFD)
9223	10-10-2012	1500	WED	M12	839 1 967 99 71974	CW	(FN)
9223	24-10-2012	1500	WED	M12	839 1 722 119 08895	CW	(FN)
9223	31-10-2012	1500	WED	M12	839 1 193 89 63430	CW	(FN)
9243	1-10-2012	1920	Mon	E07	229 1	AM	(HFD)
9243	3-10-2012	1920	Wed	E07	229 1 230 63 18308 76197 etc	USB	(AB/Spec)
9243	24-10-2012	1900	Wed	E07	OM/EE 229 229 229 000	AM	(Q-HOL)
9243	29-10-2012	1920	Mon	E07	229 229 229 000	AM	(Q-HOL)
9245	23-10-2012	1929	Tue	S06	OM, Slavic, 5FSG, "msg nol nol nol nol nol"	USB	(Q-HOL)
9247	22-10-2012	1918	Mon	S06	451 517 96 60235 93646 49270 .... 62363 85343 94602 517 96 00000	USB	(GHn)
9255	3-10-2012	0830	Wed	S06s	471 (R) 830 5 96111 10544 98003 68909 15279 830 5 00000	USB	(AB)
9255	3-10-2012	0830	Wed	S06s	471 830 830 5 5 96111 10544 98003 68909 45279 830 830 5 5 00000	USB	(tING)

frequency	date	UTC	day	enigma	remarks	mode	contributor
9264	2-10-2012	1850	TUE	M12	124 1 2206 53 61374	CW	(FN)
9264	2-10-2012	1850	Tue	M12	124 1	CW	(HFD)
9264	4-10-2012	1720	THU	M12	124 1 2240 76 05177	CW	(FN)
9264	4-10-2012	1820	THU	M12	124 1 6757 61 49090	CW	(FN)
9264	4-10-2012	1820	Thu	M12	124 1	CW	(HFD)
9264	5-10-2012	1820	FRI	M12	124 1 5358 87 48 509	CW	(FN)
9264	5-10-2012	1820	Fri	M12	124 1	CW	(HFD)
9264	9-10-2012	1850	Tue	M12	124 1 5FGs 000 000	CW	(AB)
9264	11-10-2012	1720	Thu	M12	124 1 5FGs	CW	(AB)
9264	11-10-2012	1720	THU	M12	124 1 4635 74 58556	CW	(FN)
9264	11-10-2012	1820	THU	M12	124 1 4589 72 65800	CW	(FN)
9264	11-10-2012	1820	Thu	M12	124/1 4589 72. 5FGs	CW	(MPJ)
9264	12-10-2012	1820	FRI	M12	124 1 4475 75 47791	CW	(FN)
9264	12-10-2012	1820	Fri	M12	124 124 124 1 (R) 4475 75 (R) msg 000 000	CW	(Q-HOL)
9264	19-10-2012	1820	Fri	M12	5f, "124 124 124 1 (R) 737 47 (R) msg ttt ttt"	CW	(Q-HOL)
9264	23-10-2012	1830	Tue	M12	124 1 2929 50 468959(?) 30669 ... 59035 78865 000 000	CW	(MPJ)
9264	23-10-2012	1850	TUE	M12	124 1 2929 50 00004	CW	(FN)
9264	25-10-2012	1720	THU	M12	124 1 3973 72 51679	CW	(FN)
9264	25-10-2012	1820	THU	M12	124 1 1711 42 50457	CW	(FN)
9264	26-10-2012	1820	FRI	M12	124 1 540 47 32484	CW	(FN)
9264	26-10-2012	1820	Fri	M12	124 1 540 47 32484 79881 ... 77541 32922 000000	CW	(MPJ/Q)
9264	30-10-2012	1850	TUE	M12	124 1 8371 59 54345	CW	(FN)
9264	30-10-2012	1855	Tue	M12	ip, "...msg ttt ttt"	CW	(Q-HOL)
9269	6-10-2012	2130	SAT	M12	229 000	CW	(FN)
9269	13-10-2012	2130	SAT	M12	229 000	CW	(FN)
9269	24-10-2012	2130	WED	M12	229 000	CW	(FN)
9269	27-10-2012	2130	SAT	M12	229 000	CW	(FN)
9276	1-10-2012	0700	Mon	V13	New Star #3. Started 3 mins late	USB	(AB-HK)
9276	3-10-2012	0700	Wed	V13	New Star #3. Tune followed by coded messages	USB	(AB-HK)
9292.2	10-10-2012	1626	Wed	M42a	Russian HFDF net "VVVV 3K"	CW	(BCI)
9317	3-10-2012	1910	WED	M12	263 1 880 165 34184	CW	(FN)
9317	3-10-2012	1910	Wed	M12	263 1	CW	(HFD)
9317	7-10-2012	1910	SUN	M12	262 1 880 165 34184	CW	(FN)
9317	24-10-2012	1910	WED	M12	263 1 923 99 79685	CW	(FN)
9317	24-10-2012	1910	Wed	M12	263 263 263 1 (R) ...63561 45462 5tt37 75814 49952 9t6t3 t1546 tt259 93t15 92968 81158 884tt ttt ttt	CW	(Q-HOL)
9317	28-10-2012	1910	SUN	M12	263 1 923 99 79685	CW	(FN)
9324	8-10-2012	1320	MON	M12	839 1 967 99 71974	CW	(FN)
9324	29-10-2012	1320	MON	M12	839 1 193 89 63430	CW	(FN)
9327	1-10-2012	1320	MON	M12	839 1 513 55 83955	CW	(FN)
9327	3-10-2012	1910	Wed	M12	938 1 5FGs	CW	(AB)
9327	3-10-2012	1910	WED	M12	938 1 4520 66 03908	CW	(FN)
9327	3-10-2012	1910	Wed	M12	938 1	CW	(HFD)
9327	8-10-2012	1320	Mon	M12	839 1	CW	(HFD)
9327	10-10-2012	1910	WED	M12	938 1 2380 68 21918	CW	(FN)
9327	10-10-2012	1910	Wed	M12	938 1 2380 68 21918 72216 ... 0 0 0 0 0.	CW	(MPJ)
9327	24-10-2012	1910	WED	M12	938 1 7703 59 45075	CW	(FN)
9327	24-10-2012	1910	Wed	M12	938 938 938 1 (R) 7703 59 (R) msg ttt ttt"	CW	(Q-HOL)
9327	31-10-2012	1910	WED	M12	938 1 2764 51 73884	CW	(FN)
9327	31-10-2012	1910	Wed	M12	938 938 938 1	CW	(FYM)
9346	5-10-2012	1710	Fri	M32	RDL: Russian Military Strategic Bcast. 80-group 5F routine msg in progress ... 74564 08711 ... 00318 05080 K. Another shorter message at 18:06. Later T-600 msgs. //18.1	CW	(MPJ)
9362	2-10-2012	1900	Tue	XPA	Msg	MFSK	(AB)
9362	2-10-2012	1900	Tue	XPA	msg	MFSK	(HFD)
9362	9-10-2012	1900	Tue	XPA	Msg	MFSK	(AB)

frequency	date	UTC	day	enigma	remarks	mode	contributor
9362	11-10-2012	1900	Thu	XPA	Msg	MFSK	(AB)
9362	11-10-2012	1900	Thu	XPA	Polytones numbers station	MFSK	(Q-HOL)
9362	16-10-2012	1900	Tue	XPA	304 1 00650 00081 57170 36611 .... 30735	MFSK	(HS2)
9362	23-10-2012	1900	Tue	XPA	4444444444 304 304 304 000 304 304 304 000 304 304 304 000 6 05673 00001 00000 10140	MFSK	(Q-HOL)
9362	30-10-2012	1900	Tue	XPA	304 304 304 000 (R) 04567 00001 00000 10140	MFSK	(Q-HOL)
9371	11-10-2012	1730	Thu	E11	416/00	USB	(AB)
9371	18-10-2012	1730	Thu	E11a	411/31 Attention	USB	(Spec)
9399	3-10-2012	0900	Wed	E11	534/00 out	USB	(AB)
9399	3-10-2012	0903	Wed	E11	534/00	USB	(tiNG)
9399	8-10-2012	0900	Mon	E11a	535/36 Attention	USB	(Spec)
9399	22-10-2012	0900	Mon	E11a	534/22	CW	(FYM)
9399	24-10-2012	0900	Wed	E11	534/00	USB	(AB)
9423	3-10-2012	1720	Wed	E07	441 1	AM	(HFD)
9423	7-10-2012	1720	Sun	E07	441 1 478 93 45095 65158 15649 ... 31702 18989 40855 000 000	AM	(AB)
9423	21-10-2012	1720	Sun	E07	OM, EE, "441 441 441 1 (R) 475 69 (R) msg 000 000"	AM	(Q-HOL)
9423	28-10-2012	1720	Sun	E07	OM/EE, 441 441 441 000	AM	(Q-HOL)
9450	7-10-2012	1315	Sun	E25a	785 8	AM	(MG)
9480	3-10-2012	0840	Wed	S06s	328 970 970 5 5 45847 23521 47660 92883 69901 970 970 5 5 00000	USB	(tiNG)
9945	8-10-2012	1642	Mon	M14	343 (R 5)	CW	(FMB)
9946	15-10-2012	1653	Mon	M14	ip	CW	(FMB)
9960	2-10-2012	1020	Tue	S11a	425/38 too noisy to copy	USB	(AB)
9960	9-10-2012	1020	Tue	S11a	426/00	USB	(HS2)
9960	12-10-2012	1020	Fri	S11a	236/00	USB	(Q-HOL)
9960	16-10-2012	1020	Tue	S11a	426/00 E	USB	(HS2)
9960	19-10-2012	1020	Fri	S11a	426/00	USB	(AB)
9960	26-10-2012	1020	Fri	S11a	426/00	USB	(AB)
9960	26-10-2012	1740	Fri	S11a	326/00	USB	(FYM)
9960	30-10-2012	1020	Tue	S11a	326/00	USB	(FYM)
10115.5	7-10-2012	2200	Sun	M51	in progress	CW	(AnEur)
10180	2-10-2012	1059	Tue	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL-HK)
10180	3-10-2012	1028	Wed	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL-HK)
10180	4-10-2012	0955	Thu	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL-HK)
10180	4-10-2012	1335	Thu	M89	(In UGT COMM msg) V DKG6 (x3) DE 3A7D (x2)	CW	(JPL-HK)
10180	5-10-2012	1202	Fri	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL-HK)
10180	6-10-2012	1039	Sat	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL-HK)
10180	8-10-2012	1059	Mon	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL-HK)
10180	16-10-2012	1252	Tue	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL-HK)
10180	17-10-2012	1138	Wed	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL-HK)
10180	22-10-2012	1030	Mon	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL-HK)
10180	22-10-2012	1206	Mon	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL-HK)
10180	23-10-2012	1132	Tue	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL-HK)
10180	29-10-2012	1025	Mon	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL-HK)
10180	31-10-2012	1018	Wed	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL-HK)
10221	2-10-2012	0710	Tue	E11	633/00 out	USB	(AB)
10221	26-10-2012	0710	Fri	E11	633/00	USB	(AB)
10243	1-10-2012	1900	Mon	E07	229 1 230 63 18308	AM	(HFD)
10243	3-10-2012	1900	Wed	E07	229 1 230 63 18308 76197 etc	USB	(AB/Spec)
10243	22-10-2012	1900	Mon	E07	229 229 229 000	AM	(Q-HOL)
10243	24-10-2012	1900	Wed	E07	OM/EE 229 229 229 000	AM	(Q-HOL)
10269	6-10-2012	2110	SAT	M12	229 000	CW	(FN)
10269	13-10-2012	2110	SAT	M12	229 000	CW	(FN)
10269	24-10-2012	2110	WED	M12	229 000	CW	(FN)
10269	27-10-2012	2110	SAT	M12	229 000	CW	(FN)
10343	2-10-2012	1830	TUE	M12	124 1 2206 53 61374	CW	(FN)



frequency	date	UTC	day	enigma	remarks	mode	contributor
10343	2-10-2012	1830	Tue	M12	124 1	CW	(HFD)
10343	4-10-2012	1700	THU	M12	124 1 2240 76 05177	CW	(FN)
10343	4-10-2012	1800	THU	M12	124 1 6757 61 49090	CW	(FN)
10343	4-10-2012	1800	Thu	M12	124 1	CW	(HFD)
10343	5-10-2012	1800	FRI	M12	124 1 5358 87 48 509	CW	(FN)
10343	5-10-2012	1800	Fri	M12	124 1	CW	(HFD)
10343	11-10-2012	1700	Thu	M12	124 1 5FGs	CW	(AB)
10343	11-10-2012	1700	THU	M12	124 1 4635 74 58556	CW	(FN)
10343	11-10-2012	1800	THU	M12	124 1 4589 72 65800	CW	(FN)
10343	11-10-2012	1800	Thu	M12	124/1 4589 72. 5FGs	CW	(MPJ)
10343	12-10-2012	1800	FRI	M12	124 1 4475 75 47791	CW	(FN)
10343	12-10-2012	1800	Fri	M12	124/1 4475 75. 48801 24034 ... 95755 00981. Same 9264 kHz/18:20 & 8116/18:40.	CW	(MPJ)
10343	12-10-2012	1800	Fri	M12	ip, 5f, "124 124 124 1 (R) 4475 75 (R) msg ttt ttt"	CW	(Q-HOL)
10343	19-10-2012	1804	Fri	M12	ip, 5f, "msg ttt ttt"	CW	(Q-HOL)
10343	23-10-2012	1830	TUE	M12	124 1 2929 50 00004	CW	(FN)
10343	23-10-2012	1830	Tue	M12	124 1 2929 50 468959(?) 30669 ... 59035 78865 000 000	CW	(MPJ)
10343	25-10-2012	1700	THU	M12	124 1 3973 72 51679	CW	(FN)
10343	25-10-2012	1800	THU	M12	124 1 1711 42 50457	CW	(FN)
10343	25-10-2012	1800	Thu	M12	124/1 1711 42 50457 91683 ... 76086 32936 0 0 0 0 0	CW	(MPJ)
10343	26-10-2012	1800	FRI	M12	124 1 540 47 32484	CW	(FN)
10343	26-10-2012	1800	Fri	M12	5f, "124 124 124 1 (R) 54t 47 (R) msg ttt ttt"	CW	(Q-HOL)
10343	30-10-2012	1830	TUE	M12	124 1 8371 59 54345	CW	(FN)
10375	15-10-2012	1500	Mon	M97	AAAAA AAAAA AAAAA SD75 KKK SD75 KKK SK75 KKK HT HT HT SN80 SN80 SN80 73943 83767 ... 19966 31163 (80 groups) with pause after every 5 groups) KKKKKKKK...KKKKKKKKKK (repeats everything twice)	CW	(MPJ)
10403.97	13-10-2012	1210	Sat	CHN	Presumed MFA Beijing. 1868 0760 2646 8028 0908 9760 7381 9594 2198 6328 etc. (See N&O 181)	LSB 4.4 QPSK 75/3000	(EW)
10403.97	13-10-2012	1210	Sat	CHN	Presumed to be Beijing, China. "1868 0760 2646 8028 0908 9760 7381 9594 2198 6328" (see N&O 181)	LSB 4+4 QPSK 75/3000	(EW)
10420	2-10-2012	0810	Tue	S06s	352 981 6 21767 53672 11834 81022 36904 41412 981 6 00000	USB	(AB)
10447.97	11-10-2012	1121	Thu	CHN	Presumed MFA Beijing. 6768 8461 3607 0581 8205 5740 0849 7675 9042 6573 etc. (See N&O 181)	LSB 4+4 QPSK 75/3000	(EW)
10447.97	11-10-2012	1121	Thu	CHN	Presumed to be Beijing, China. "6768 8461 3607 0581 8205 5740 0849 7675 9042 6573" (see N&O 181)	LSB 4+4 QPSK 75/3000	(EW)
10456	6-10-2012	2039	Sat	M89	v rxp7 rxp7 rxp7 de czt2 czt2	CW	(Q-HOL)
10492	14-10-2012	1457	Sun	M32a	Russian Navy	CW	(Q-HOL)
10543	9-10-2012	1030	Tue	M32a	RCV: Russian Navy Sevastopol "RFH71 de RCV as 5 k"	CW	(WP3)
10598	3-10-2012	1850	Wed	M12	938 1 5FGs	CW	(AB)
10598	3-10-2012	1850	WED	M12	938 1 4520 66 03908	CW	(FN)
10598	3-10-2012	1850	Wed	M12	938 1	CW	(HFD)
10598	10-10-2012	1850	WED	M12	938 1 2380 68 21918	CW	(FN)
10598	10-10-2012	1850	Wed	M12	938 1 2380 68 21918 72216 ... 0 0 0 0 0 0.	CW	(MPJ)
10598	24-10-2012	1850	WED	M12	938 1 7703 59 45075	CW	(FN)
10598	24-10-2012	1850	Wed	M12	938 938 938 1 (R) 7703 59 (R) msg ttt ttt"	CW	(Q-HOL)
10598	31-10-2012	1850	WED	M12	938 1 2764 51 73884	CW	(FN)
10617	3-10-2012	1850	WED	M12	263 1 880 165 34184	CW	(FN)
10617	3-10-2012	1850	Wed	M12	263 1	CW	(HFD)
10617	7-10-2012	1850	SUN	M12	262 1 880 165 34184	CW	(FN)
10617	10-10-2012	1850	WED	M12	263 000	CW	(FN)
10617	24-10-2012	1850	WED	M12	263 1 923 99 79685	CW	(FN)
10617	24-10-2012	1850	Wed	M12	263 263 263 1 (R) ...63561 45462 5tt37 75814 49952 9t6t3 t1546 tt259 93t15 92968 81158 884tt ttt ttt	CW	(Q-HOL)
10617	28-10-2012	1850	SUN	M12	263 1 923 99 79685	CW	(FN)
10617	31-10-2012	1850	WED	M12	263 000	CW	(FN)
10640	1-10-2012	0320	Mon	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL-HK)

frequency	date	UTC	day	enigma	remarks	mode	contributor
10640	3-10-2012	0120	Wed	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K /6840	CW	(JPL-HK)
10640	3-10-2012	1020	Wed	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL-HK)
10640	8-10-2012	0221	Mon	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL-HK)
10640	14-10-2012	0120	Sun	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL-HK)
10640	22-10-2012	0220	Mon	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL-HK)
10640	22-10-2012	1020	Mon	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL-HK)
10640	24-10-2012	0220	Wed	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL-HK)
10640	25-10-2012	0320	Thu	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL-HK)
10640	29-10-2012	1019	Mon	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL-HK)
10640	31-10-2012	1020	Wed	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL-HK)
10690	22-10-2012	0830	Mon	E11a	649/22	USB	(FYM)
10711	1-10-2012	1640	MON	M12	546 1 3907 94 83844	CW	(FN)
10711	8-10-2012	1640	MON	M12	546 1 2753 61 57068	CW	(FN)
10711	22-10-2012	1640	MON	M12	546 1 737 47 09876	CW	(FN)
10711	29-10-2012	1640	MON	M12	546 1 540 47 32484	CW	(FN)
10779	2-10-2012	0137	Tue	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL-HK)
10779	2-10-2012	1057	Tue	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //8789	CW	(JPL-HK)
10779	3-10-2012	0118	Wed	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL-HK)
10779	3-10-2012	1026	Wed	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //8789	CW	(JPL-HK)
10779	3-10-2012	2340	Wed	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //8789	CW	(JPL-HK)
10779	6-10-2012	0141	Sat	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL-HK)
10779	6-10-2012	1037	Sat	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //8789	CW	(JPL-HK)
10779	8-10-2012	0202	Mon	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL-HK)
10779	8-10-2012	1057	Mon	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //8789	CW	(JPL-HK)
10779	14-10-2012	0042	Sun	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL-HK)
10779	14-10-2012	2335	Sun	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //8789	CW	(JPL-HK)
10779	17-10-2012	0030	Wed	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL-HK)
10779	19-10-2012	0014	Fri	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL-HK)
10779	20-10-2012	1133	Sat	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //8789	CW	(JPL-HK)
10779	22-10-2012	0142	Mon	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL-HK)
10779	22-10-2012	0228	Mon	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL-HK)
10779	22-10-2012	1028	Mon	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //8789	CW	(JPL-HK)
10779	23-10-2012	0026	Tue	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL-HK)
10779	23-10-2012	0141	Tue	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL-HK)
10779	23-10-2012	0258	Tue	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL-HK)
10779	24-10-2012	2336	Wed	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //8789	CW	(JPL-HK)
10779	25-10-2012	2352	Thu	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL-HK)
10779	29-10-2012	1018	Mon	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL-HK)
10779	31-10-2012	1016	Wed	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //8789	CW	(JPL-HK)
10800	2-10-2012	0645	Tue	E11	517/00 out	USB	(AB)
10800	18-10-2012	0645	Thu	E11a	514/32 Attention	USB	(Spec)
10804	1-10-2012	1300	MON	M12	839 1 513 55 83955	CW	(FN)
10804	8-10-2012	1300	MON	M12	839 1 967 99 71974	CW	(FN)
10804	8-10-2012	1300	Mon	M12	839 1	CW	(HFD)
10804	29-10-2012	1300	MON	M12	839 1 193 89 63430	CW	(FN)
10814	6-10-2012	1330	SAT	M12	282 000	CW	(FN)
10814	6-10-2012	1345	Sat	M42a	GRU HFDF net "vvv vvv vvv 3k ok"	CW	(FN)
10814	11-10-2012	1330	THU	M12	282 000	CW	(FN)
10814	13-10-2012	1330	SAT	M12	282 000	CW	(FN)
10814	13-10-2012	1330	Sat	M12	282 0	CW	(HFD)
10814	25-10-2012	1330	THU	M12	282 000	CW	(FN)
10814	27-10-2012	1330	SAT	M12	282 000	CW	(FN)
10835	3-10-2012	0530	Wed	S06s	153 (R) 987 6 09394 76911 75155 92918 97607 58601 987 6 00000	USB	(AB)
10871.7	1-10-2012	0729	Mon	MX	Beacon "D"	CW	(AB)
10871.7	1-10-2012	0729	Mon	MX	Beacon "D"	CW	(AB)

frequency	date	UTC	day	enigma	remarks	mode	contributor
10871.7	6-10-2012	0723	Sat	MX	Beacon "D"	CW	(AB)
10871.7	21-10-2012	0929	Sun	MX	Beacon "D"	CW	(Q-HOL)
10871.9	21-10-2012	0930	Sun	MX	Beacon "S"	CW	(Q-HOL)
10872	1-10-2012	0729	Mon	MX	Beacon "C"	CW	(AB)
10872	1-10-2012	0729	Mon	MX	Beacon "C"	CW	(AB)
10872	2-10-2012	1521	Tue	MX	Beacon "C"	CW	(AB)
10872	6-10-2012	0723	Sat	MX	Beacon "C"	CW	(AB)
10872	12-10-2012	0820	Fri	MX	Beacon "C"	CW	(Q-HOL)
10872	16-10-2012	1110	Tue	MX	Beacon C	CW	(HS2)
10872	21-10-2012	0930	Sun	MX	Beacon "C"	CW	(Q-HOL)
10872.1	2-10-2012	1521	Tue	MX	Beacon "A"	CW	(AB)
10872.2	16-10-2012	0905	Tue	MX	Russian Beacon "F" Vladivostok Russia	CW	(EW)
10872.3	16-10-2012	0905	Tue	MX	Russian Beacon "K" Petropavlovsk Russia	CW	(EW)
10872.4	16-10-2012	0905	Tue	MX	Russian Beacon "M" Magadan Russia	CW	(EW)
10894	30-9-2012	2208		M32a	Russian Navy: RMMA tfc to RIW after CW-opchat on 8345/9145 kHz	CW	(WP3)
10957	17-10-2012	0653	Wed	M51	ip	CW	(FMB)
11040	3-10-2012	0850	Wed	S06s	328 970 970 5 5 45847 23521 47660 92883 69901 970 970 5 5 00000	USB	(tiNG)
11116	30-10-2012	1700	Tue	M42	Russian Gov/Intel. Series of eight blocks of 3.	FSK 200/1000	(MPJ)
11217	3-10-2012	1830	Wed	M12	263 1	CW	(HFD)
11217	10-10-2012	1830	WED	M12	263 000	CW	(FN)
11430	1-10-2012	0500	Mon	V13	New Star #4	USB	(AB-HK)
11430	1-10-2012	0600	Mon	V13	New Star #4	USB	(AB-HK)
11430	1-10-2012	1304	Mon	V13	New Star in progress	USB	(AB-HK)
11430	2-10-2012	1200	Tue	V13	New Star #4. Tune + coded messages	USB	(AB-HK)
11430	3-10-2012	1300	Wed	V13	New Star #4. Tune and coded messages	USB	(AB-HK)
11435	3-10-2012	1830	Wed	M12	938 1 5FGs	CW	(AB)
11435	3-10-2012	1830	WED	M12	938 1 4520 66 03908	CW	(FN)
11435	3-10-2012	1830	Wed	M12	938 1	CW	(HFD)
11435	10-10-2012	1830	WED	M12	938 1 2380 68 21918	CW	(FN)
11435	10-10-2012	1830	Wed	M12	938 1 2380 68 21918 72216 ... 0 0 0 0 0 0.	CW	(MPJ)
11435	24-10-2012	1830	WED	M12	938 1 7703 59 45075	CW	(FN)
11435	24-10-2012	1830	Wed	M12	938 938 938 1 (R) 7703 59 (R) msg ttt ttt"	CW	(Q-HOL)
11435	31-10-2012	1830	WED	M12	938 1 2764 51 73884	CW	(FN)
11454	3-10-2012	1700	Wed	E07	441 1 736 120 50036	AM	(HFD)
11454	7-10-2012	1700	Sun	E07	441 1 478 93 45095 65158 15649 ... 31702 18989 40855 000 000	AM	(AB)
11454	7-10-2012	1700	Sun	E07	441 1 478 93 45095 65158 .... 40855 000 000	AM	(HS2)
11454	14-10-2012	1700	Sun	E07	441 441 441 000	AM	(Q-HOL)
11454	21-10-2012	1700	Sun	E07	OM, EE, "441 441 441 1 (R) 475 69 (R) msg 000 000"	AM	(Q-HOL)
11454	28-10-2012	1700	Sun	E07	OM/EE, 441 441 441 000	AM	(Q-HOL)
11460	8-10-2012	1210	Mon	S06s	831 572 6 52401 63919 92699 14600 74248 48754 572 6 00000	USB	(HS2)
11460	15-10-2012	1210	Mon	S06s	831 459 6 36453 78293 89216 56472 19982 08760 459 6 00000	USB	(HS2)
11460	15-10-2012	1210	Mon	S06s	83 ('adjim' ?) ...	USB	(MPJ)
11460	22-10-2012	1210	Mon	S06s	831	USB	(FYM)
11532	17-10-2012	0700	Wed	M08a	iuau waiuw nwra. uiuan waina na	CW	
11566	1-10-2012	1620	MON	M12	546 1 3907 94 83844	CW	(FN)
11566	8-10-2012	1620	MON	M12	546 1 2753 61 57068	CW	(FN)
11566	22-10-2012	1620	MON	M12	546 1 737 47 09876	CW	(FN)
11566	29-10-2012	1620	MON	M12	546 1 540 47 32484	CW	(FN)
11635	2-10-2012	0800	Tue	S06s	352 981 6 21767 53672 11834 81022 36904 41412 981 6 00000	USB	(AB)
11830	3-10-2012	0740	Wed	S06s	745 293 6 05899 52343 70628 42432 56075 56281 293 6 00000	USB	(AB)
12140	19-10-2012	0930	Fri	S06s	516 493 7 60386 03009 81413 94073 83531 94063 63156 493 7 00000	USB	(AB)
12140	26-10-2012	0930	Fri	S06s	516 493 7 60386 03009 81413 94073 83531 94063 63156 493 7 00000	USB	(AB)

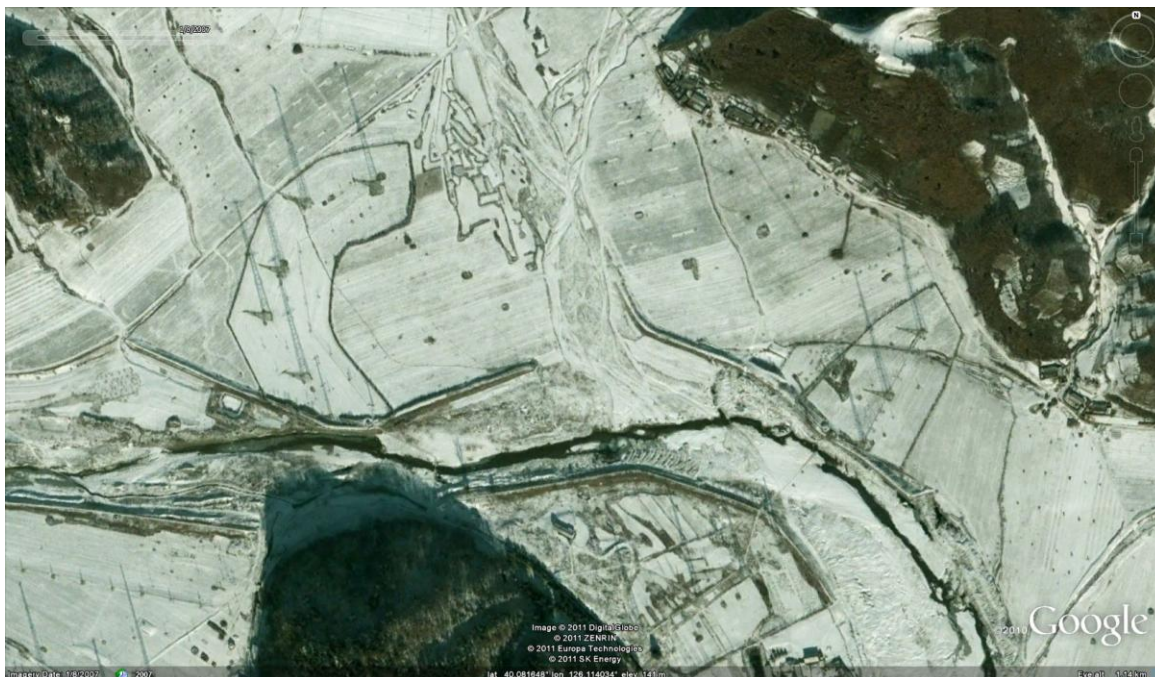
frequency	date	UTC	day	enigma	remarks	mode	contributor
12162	1-10-2012	1600	MON	M12	546 1 3907 94 83844	CW	(FN)
12162	8-10-2012	1600	MON	M12	546 1 2753 61 57068	CW	(FN)
12162	22-10-2012	1600	MON	M12	546 1 737 47 09876	CW	(FN)
12162	29-10-2012	1600	MON	M12	546 1 540 47 32484	CW	(FN)
12169	12-10-2012	0800	Fri	M42	Russian Intel.	FSK 200/1000	(FMB)
12169	17-10-2012	0700	Wed	M42	Russian Intel.	FSK 200/1000	(FMB)
12170	3-10-2012	0540	Wed	S06s	153 (R) 987 6 09394 76911 75155 92918 97607 58601 987 6 00000	USB	(AB)
12177	22-10-2012	1248	Mon	X06	Mazielka. Sequence: 364152	USB	(HS2)
12194	13-10-2012	1120	Sat	M42	Russian Intel	FSK 200/1000	(EW)
12194	20-10-2012	1120	Sat	M42	Russian Intel.	FSK 200/500	(EW)
12194	20-10-2012	1120	Sat	M42	Russian Intel.	FSK 200/1000	(FMB)
12194	21-10-2012	1120	Sun	M42	Russian Intel. Encrypted traffic	FSK 200/1000	(SP1)
12194	29-10-2012	1120	Mon	M42	Russian Intel. 60 numbered blocks &x-7d 12 b0 e6 00 01, 02, 03 etc.	FSK 200/1000	(MPJ)
12198	20-10-2012	0820	Sat	M42	Russian Intel.	FSK 200/1000	(FMB)
12214	11-10-2012	1310	THU	M12	282 000	CW	(FN)
12214	13-10-2012	1310	SAT	M12	282 000	CW	(FN)
12214	13-10-2012	1310	Sat	M12	282 0	CW	(HFD)
12214	21-10-2012	1550	Sun	M42	Russian Intel. Encrypted traffic	FSK 200/1000	(SP1)
12214	25-10-2012	1310	THU	M12	282 000	CW	(FN)
12214	27-10-2012	1310	SAT	M12	282 000	CW	(FN)
12217	3-10-2012	1830	WED	M12	263 1 880 165 34184	CW	(FN)
12217	7-10-2012	1830	SUN	M12	262 1 880 165 34184	CW	(FN)
12217	24-10-2012	1830	WED	M12	263 1 923 99 79685	CW	(FN)
12217	28-10-2012	1830	SUN	M12	263 1 923 99 79685	CW	(FN)
12217	31-10-2012	1830	WED	M12	263 000	CW	(FN)
12224	15-10-2012	1120	Mon	XPA	07993 00144 68652 .... 34414	MFSK	(HS2)
12264	29-10-2012	1100	Mon	M42	Russian Intel. 58 numbered blocks &x-7d 12 b0 e6 00 01, 02, 03 etc.	FSK 200/1000	(MPJ)
12464	30-9-2012	2116		M32a	Russian Navy: RJQ84 clg RIT agn 2121z	CW	(WP3)
12464	1-10-2012	0947	Mon	M32a	Russian Navy: riw de rfh61 qsa3 k	CW	(WP3)
12464	2-10-2012	----	Tue	M32a	Russian Navy: RFH70 confirming msg from (RIW?) 623 43 2 1057 623 = fm RAA = 54612 66858 91182 ....	CW	(WP3)
12464	9-10-2012	1030	Tue	M32a	RFH71: Russian Navy "RCV de RFH71 k"	CW	(WP3)
12464	10-10-2012	----	Wed	M32a	Russian Navy: RIW de RJT22 qsa3 k - ok qyt9 qsx ~140 qwh 11429 fm RAA - ok qyt9 sk fm RAA k	CW	(WP3)
12464	10-10-2012	----	Wed	M32a	Russian Navy: RIW de RGX82 k - ok qap k - ok qrr3 qdw 105~~ k	CW	(WP3)
12464	10-10-2012	----	Wed	M32a	Russian Navy: xxx xxx BRANÍUGA 06942 84776 01226 00222 41986 94788 03507 00200 11230 k	CW	(WP3)
12464	10-10-2012	----	Wed	M32a	Russian Navy: xxx xxx rks rks BRANÍUGA 71358 24297 03747 0001 702 ... k heavy qrm from RFH61	CW	(WP3)
12464	10-10-2012	0803	Wed	M32a	Russian Navy: RIW de RMZW ok qyt4 qsx 8306 k - qyt4 for raa k - qyt4 qsx 8310 fm raa k - qyt4qsx 8625 fm raa k - qyt4 qsx 8338 fm raa k - ok qyt4 sk fm raa k	CW	(WP3)
12464	10-10-2012	0921	Wed	M32a	Russian Navy: RHI99 clg RIW qsa3 k - ok qap k - qyt4 qsx 11703/12723 qcm k - qyt4 qsx 11703/12723 qwh 8338/16603 k - qyt4 qsx 11703/12723 qwh 8338/16603 k - ok qyt4 qcm k - qyt4 qmo k - qyt4 sk - 1505z RIW de RHI99 ok qyt9 sk fm RAA k	CW	(WP3)
12464	10-10-2012	1127	Wed	M32a	Russian Navy: xxx xxx BRANzhUT 29270 87683 01530 00222 04621 04806 00012 01533 k	CW	(WP3)
12464	10-10-2012	1220	Wed	M32a	Russian Navy: RIW de RHL80 ok qap k - 1230z no qyt9 k - okm qyt4 qsx 9700/12723 qwh 8338/16603 fm RAA k	CW	(WP3)
12464	10-10-2012	1450	Wed	M32a	Russian Navy: RIW de RFH61 qsa3 k - 2012-10-10 (wp3)	CW	(WP3)
12464	10-10-2012	1512	Wed	M32a	Russian Navy: xxx xxx BRANÍUGA 80358 24297 01858 00222 79115 35668 00110 11900 k	CW	(WP3)
12464	10-10-2012	1752	Wed	M32a	Russian Navy: xxx xxx BRANÍUGA 06942 81776 02140 00111 42977 95243 07012 00650 12145 k	CW	(WP3)

frequency	date	UTC	day	enigma	remarks	mode	contributor
12464	21-10-2012	1203	Sun	M32a	Russian Navy Tug MB-304 "RCV DE RMYZ 837 18 21 1600 837 = FOR RJ373 RJH45 = 21121 99410 10290 41493 22307 10250 40150 53020 70199 82701 22252 00210 20000 399// 21014 = + RMYZ K"	CW	(Tom-I)
12464	22-10-2012	1201	Mon	M32a	Russian Navy Tug MB-304 "RCV DE RMYZ 555 18 22 1600 555 = SML FOR RJE73 RJH45 = 22121 99395 10256 41496 50212 10200 40160 50000 70222 85402 22252 00210 299// 399// 22014 = + RMYZ K"	CW	(Tom-I)
12464	23-10-2012	1205	Tue	M32a	Russian Navy Tug MB-304 "RCV DE RMYZ 688 18 23 1600 688 = SML FOR RJE73 RJH45 = 23121 99364 10228 41598 32702 10240 40150 50000 70211 84202 22262 00235 20000 399//"	CW	(Tom-I)
12464	24-10-2012	1810	Wed	M32a	Russian Navy Tug MB-304 "RCV DE RMYZ 152 21 17 23 2203 152 = SML FOR RJE73 RJH45 = 23181 99362 10219 41/96 /2903 10220 40150 50000 75011 22262 00250 20000 399// 23013 = + RMYZ K"	CW	(Tom-I)
13365	24-10-2012	1000	Wed	S06s	729 436 5 86578 42194 10580 88266 45334 436 5 00000	USB	(AB)
13375	8-10-2012	1113	Mon	E11a	ip	USB	(HFD)
13375	9-10-2012	1404	Tue	E11a	743/12 5FGs	USB	(MCO)
13375	12-10-2012	1110	Fri	E11	YL. 976/40 5FGs ending 48862 84647 Out.	USB	(MPJ)
13375	19-10-2012	1110	Fri	E11a	954/31	USB	(AB)
13375	19-10-2012	1110	Fri	E11a	954/31 Attention	USB	(Spec)
13375	26-10-2012	1120	Fri	E11a	956/35	USB	(FYM)
13415	29-10-2012	0730	Mon	X06c	Mazielka	USB	(EW)
13424	2-10-2012	1045	Tue	E11	576/00 out	USB	(AB)
13424	2-10-2012	1045	Tue	E11	576/00	USB	(HFD)
13424	30-10-2012	1045	Tue	E11	576/00	USB	(FYM)
13424	30-10-2012	1045	Tue	E11	576/00 out	USB	(MPJ)
13455	2-10-2012	1810	Tue	E11a	986 10 96895	USB	(HFD)
13472	9-10-2012	1742	Tue	M51	SLGs offline crypto	CW	(MCO)
13507	23-10-2012	1023	Tue	X06	Mazielka. Sequence: 612534	USB	(HS2)
13515	19-10-2012	0940	Fri	S06s	516 493 7 60386 03009 81413 94073 83531 94063 63156 493 7 00000	USB	(AB)
13515	26-10-2012	0940	Fri	S06s	516 493 7 60386 03009 81413 94073 83531 94063 63156 493 7 00000	USB	(AB)
13527.7	2-10-2012	1521	Tue	MX	Beacon "D"	CW	(AB)
13527.7	6-10-2012	0723	Sat	MX	Beacon "D"	CW	(AB)
13528	1-10-2012	0729	Mon	MX	Beacon "C"	CW	(AB)
13528	1-10-2012	1339	Mon	MX	Beacon "C"	CW	(AB)
13528	2-10-2012	1521	Tue	MX	Beacon "C"	CW	(AB)
13528	6-10-2012	0723	Sat	MX	Beacon "C"	CW	(AB)
13528.1	1-10-2012	0729	Mon	MX	Beacon "A"	CW	(AB)
13528.1	1-10-2012	1339	Mon	MX	Beacon "A"	CW	(AB)
13528.1	2-10-2012	1521	Tue	MX	Beacon "A"	CW	(AB)
13528.1	3-10-2012	0855	Wed	MX	Beacon "A"	CW	(AB)
13528.1	6-10-2012	0723	Sat	MX	Beacon "A"	CW	(AB)
13528.2	1-10-2012	0612	Mon	MX	Beacon "F"	CW	(AB-HK)
13528.2	16-10-2012	0905	Tue	MX	Russian Beacon "F" Vladivostok Russia	CW	(EW)
13528.3	16-10-2012	0905	Tue	MX	Russian Beacon "K" Petropavlovsk Russia	CW	(EW)
13528.4	2-10-2012	1521	Tue	MX	Beacon "M"	CW	(AB)
13528.4	16-10-2012	0905	Tue	MX	Russian Beacon "M" Magadan Russia	CW	(EW)
14014	3-9-2012	0726		M32	Russian Mil. BERMANIT 0126 1207 K	CW	(IARUMS)
14014	3-9-2012	0726		M32	Russian Mil. XXX G5CX F2ET 77440 65904	CW	(IARUMS)
14154.5	4-9-2012	0642		M32	Russian Mil. DGBY DE VU5R QRJ2 ZXG ZOT ZHR K	CW	(IARUMS)
14439.5	12-10-2012	1210	Fri	M42	NDWC: Russian gov. "PGZ6 PGZ6 DE NDWC NDWC QTN K"	CW	(LG2)
14483	13-10-2012	1110	Sat	M42	Russian Intel	FSK 200/1000	(EW)
14483	20-10-2012	1110	Sat	M42	Russian Intel. 576 1 00000 +++++ +++++ 162	FSK 200/500	(EW)
14483	20-10-2012	1110	Sat	M42	Russian Intel.	FSK 200/1000	(FMB)
14483	21-10-2012	1110	Sun	M42	Russian Intel. Encrypted traffic	FSK 200/1000	(SP1)

frequency	date	UTC	day	enigma	remarks	mode	contributor
14483	29-10-2012	1110	Mon	M42	Russian Intel. 58 numbered blocks &x-7d 12 b0 e6 00 01, 02, 03 etc.	FSK 200/1000	(MPJ)
14505	24-10-2012	1010	Wed	S06s	729 436 5 86578 42194 10580 88266 45334 436 5 00000	USB	(AB)
14575	2-10-2012	0745	Tue	E11	335/00 out	USB	(AB)
14576	8-10-2012	0816	Mon	M32	"Z9L4 Z9L4 Z9L4 DE Y9JI Y9JI K Y9JI QRV K BK RPT AA 16 K Y9JI RPT K"	CW	(BCI)
14626	21-10-2012	1540	Sun	M42	Russian Intel. Encrypted traffic	FSK 200/1000	(SP1)
14683.5	25-10-2012	1143	Thu	M42	Russian diplo	CROWD-36	(EW)
14915	24-10-2012	1155	Wed	E11	718/00	USB	(AB)
15721	15-10-2012	0400	Mon	S06	480 795 60 16192 51030 31611 ... 80274 32522 795 60 00000	AM	(Avare)
15778	12-10-2012	1150	Fri	M42	PGZ6: Russian gov.	CW	(LG2)
15915	1-10-2012	1540	Mon	E11a	220/37 out	USB	(AB)
15915	3-10-2012	1155	Wed	E11	718/00 out	USB	(AB)
15915	7-10-2012	1541	Sun	E11a	220/30	USB	(Q-HOL)
15915	7-10-2012	1543	Sun	E11a	220/32	USB	(MCO)
15915	14-10-2012	1540	Sun	E11	228/00	USB	(Q-HOL)
15915	15-10-2012	1540	Mon	E11	228/00	USB	(GHn/MPJ)
15915	17-10-2012	1155	Wed	E11	718/00	USB	(AB)
15915	21-10-2012	1540	Sun	E11	228/00 Out	USB	(MPJ)
15915	22-10-2012	1540	Mon	E11	228/00 Out	USB	(MPJ)
15915	22-10-2012	1743	Mon	E11	228/00	USB	(FYM)
15915	28-10-2012	1540	Sun	E11	228/00	USB	(Q-HOL)
15915	29-10-2012	1540	Mon	E11	228/00	USB	(MPJ)
16060	28-10-2012	1155	Sun	X06	Mazielka. Sequence: 261453	USB	(HS2)
16112	1-10-2012	1015	Mon	S11a	475/00 konec	USB	(AB)
16112	3-10-2012	1049	Wed	M32	Russian Strategic Operational Command "RDL RDL RDL 38275 3325T 38275 3325T 38275 3325T K"	CW	(LG2)
16112	5-10-2012	1307	Fri	M32	Russian Strategic Operational Command "RDL RDL DL 6T744 T4767 6T744 T4767 6T744 T4767 K"	CW	(LG2)
16112	15-10-2012	1010	Mon	M32	RDL: Russian Strategic Bcast "RDL RDL 11191 67251 11191 ... K"	CW	(MPJ)
16112	15-10-2012	1015	Mon	S11a	475/00	USB	(HS2/MPJ)
16112	22-10-2012	1015	Mon	S11a	475/00	USB	(FYM)
16119.5	16-10-2012	0805	Tue	DPRK	MFA Pyongyang North Korea. All encrypted text	DPRK-ARQ 600/600	(EW)
16161.7	24-10-2012	1438	Wed	EGY	Egyptian Diplo	Sitor-A/Codan	(MPJ)
16263	13-10-2012	1100	Sat	M42	Russian Intel	FSK 200/1000	(EW)
16264	20-10-2012	1100	Sat	M42	Russian Intel.	FSK 200/500	(EW)
16264	20-10-2012	1100	Sat	M42	Russian Intel.	FSK 200/100	(FMB)
16264	21-10-2012	1100	Sun	M42	Russian Intel. Encrypted traffic	FSK 200/1000	(SP1)
16317	23-10-2012	1019	Tue	X06	Mazielka. Sequence: 612534	USB	(HS2)
16317	23-10-2012	1057	Tue	X06	Mazielka. Sequence: 612534	USB	(HS2)
16318.5	16-10-2012	0746	Tue	DPRK	MFA Pyongyang North Korea. All encrypted text	DPRK-ARQ 600/600	(EW)
16331.7	1-10-2012	1339	Mon	MX	Beacon "D"	CW	(AB)
16331.7	6-10-2012	0723	Sat	MX	Beacon "D"	CW	(AB)
16331.9	1-10-2012	1339	Mon	MX	Beacon "S"	CW	(AB)
16331.9	2-10-2012	1521	Tue	MX	Beacon "S"	CW	(AB)
16331.9	6-10-2012	0723	Sat	MX	Beacon "S"	CW	(AB)
16332	13-10-2012	0617	Sat	MX	Beacon "D"	CW	(Q-HOL)
16332.1	3-10-2012	0855	Wed	MX	Beacon "A"	CW	(AB)
16332.1	6-10-2012	0723	Sat	MX	Beacon "A"	CW	(AB)
16332.1	13-10-2012	0617	Sat	MX	Beacon "A"	CW	(Q-HOL)
16332.2	1-10-2012	0612	Mon	MX	Beacon "F"	CW	(AB-HK)
16332.3	1-10-2012	0612	Mon	MX	Beacon "K"	CW	(AB-HK)
16332.4	1-10-2012	0612	Mon	MX	Beacon "M"	CW	(AB-HK)
17450	11-10-2012	0740	Thu	S06s	Tentative S06s. Russian numbers	USB	(EBr)
17451	3-10-2012	0814	Wed	M42	Russian gov. W9AQK wkg ZJPL 7LZE NWBC JK5B with call ups	CW	(LG2)

frequency	date	UTC	day	enigma	remarks	mode	contributor
17452.5	25-10-2012	1151	Thu	M42	Russian diplo	CROWD-36	(EW)
17463	20-10-2012	1211	Sat	M42	Russian Intel.	FSK 200/500	(EW)
17463	27-10-2012	1215	Sat	M42	Russian Intel. "576 1 00000 +++++ +++++ 162" for 5 mins	Baudot 200/500	(MCO)
17473	30-10-2012	1400	Tue	M42	Russian Gov/Intel. 3 blocks repeated.	FSK 200/1000	(MPJ)
18039	25-10-2012	1048	Thu	S--	Russian Man Number station, repeats "11049" for 5 minutes, waits 5 mins, then repeats same 5F group for another 5 mins	AM	(MCO)
18107	28-9-2012	1438		M32	Russian Mil. RDL 11111 5FGs	CW	(IARUMS)
18725	29-10-2012	1005	Mon	IND	MFA Delhi India. 8WD2 calling 8WA3 ry test message	Baudot 50/850	(EW)
19241.5	16-10-2012	0846	Tue	DPRK	MFA Pyongyang North Korea. All encrypted text	DPRK-ARQ 600/600	(EW)
19253	11-10-2012	0843	Thu	EGY	Egyptian diplo	SITOR 100/170/ATU-80	(BCI)
19526	20-10-2012	1200	Sat	M42	Russian Intel. 576 1 00000 +++++ +++++ 162	FSK 200/500	(EW)
19526	27-10-2012	1203	Sat	M42	Russian Intel. "576 1 00000 +++++ +++++ 162" for 5 mins	Baudot 200/500	(MCO)
20047.7	2-10-2012	1521	Tue	MX	Beacon "D"	CW	(AB)
20047.7	6-10-2012	0723	Sat	MX	Beacon "D"	CW	(AB)
20047.7	12-10-2012	0829	Fri	MX	Beacon "D"	CW	(Q-HOL)
20047.7	12-10-2012	1156	Fri	MX	Russian Navy Beacon "D" Odessa/Sevastapol	CW	(LG2)
20047.9	2-10-2012	1521	Tue	MX	Beacon "S"	CW	(AB)
20047.9	6-10-2012	0723	Sat	MX	Beacon "S"	CW	(AB)
20047.9	12-10-2012	1156	Fri	MX	Russian Navy Beacon "S" Severomorsk	CW	(LG2)
20047.9	12-10-2012	1156	Fri	MX	Russian Navy Beacon "C" Moscow	CW	(LG2)
20048	2-10-2012	1521	Tue	MX	Beacon "C"	CW	(AB)
20048	6-10-2012	0723	Sat	MX	Beacon "C"	CW	(AB)
20048	12-10-2012	0828	Fri	MX	Beacon "C"	CW	(Q-HOL)
20138	23-10-2012	1417	Tue	M42	Russian Gov/Intel. "46464" call-up and "ntc ntc ntc qsp" ends "qru sk"	Baudot 75/500	(MCO)
20255	26-10-2012	0847	Fri	EGY	MFA Cairo sending message to 99903 from 44405	Codan 16 75bd	(EW)
20256.7	26-10-2012	0842	Fri	EGY	MFA Cairo sending messages to unidentified emabassy	SITOR-A 100/170	(EW)
20412	23-10-2012	1356	Tue	M42	Russian Intel.	FSK 50/500	(MCO)
20661.5	16-10-2012	0755	Tue	DPRK	MFA Pyongyang North Korea. All encrypted text	DPRK-ARQ 600/600	(EW)
21124.97	12-10-2012	0900	Fri	CHN	Presumed to be Beijing, China. "F GUIB GUIB GUIB DE HYET HYET HYET K QSA?" (see N&O 181)	LSB 4+4 QPSK 75/3000	(EW)
21124.97	12-10-2012	0900	Fri	CHN	Presumed MFA Beijing. Voice callup in Chinese "this is 8069" followed by 4+4 tfc "F GUIB GUIB GUIB DE HYET HYET HYET K QSA? XYXYXYXY HR CY U QSA2-3 AHR EV MSG GA PSE AS etc. (See N&O 181)	LSB 4+4 QPSK 75/3000	(EW)
21178.7	25-10-2012	1149	Thu	EGY	Egyptian MFA Cairo using SITOR-A on duplex link. Asking for QSY then calling "KKXR" (Embassy Tunis). Then Codan 80bd Chirp "99901" (MFA) calling "33316" (Tunis), then into Codan 16 tone modem tfc.	Sitor-A / Codan 80bd	(MCO)
21438	19-9-2012	0733		M32a	Russian Navy. RCV wkg RBE86, RIP90	CW	(IARUMS)
21438	9-10-2012	1001	Tue	M32a	Russian Navy: "RIP90 de RCV"	CW	
28055.7	28-9-2012	1745		DPRK	North Korean diplo traffic	DPRK-ARQ 1200/1200	(IARUMS)





*DPRK transmitter  
site near Kujang*

## CONTRIBUTORS

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AB-EST	Ary Boender via remote rx Estonia	KC2TTK	KC2TTK, NY, USA
AB-HK	Ary Boender via remote rx Hong Kong	LG2	Les G, UK
AnEur	Anonymous Europe	MCO	Mike Chace-Ortiz, PA, USA
AnRus	Anonymous, Russia	MG	Manolis, Greece
ASh	Alex Shmel, Russia	MPJ	Jim, SW England
Avare	Avare	MPJ-HK	Jim, via remote rx Hong Kong
BCA	Brandon Longo, CA, USA	PR	Per R., Sweden
BCI	Bruno Casula, Italy	Q-HK	Chief via remote rx in Hong Kong
BS3	Barry Sandefer, TN, USA	Q-HOL	Chief via remote rx in The Netherlands
Dan	Daniel, Argentina	Q-USA	Chief via remote rx in USA
Danix	Danix111, Poland	RSRu	via Radioscanner Russia
EBr	Eric Bronner, France	Rx	Radarix
EW	Eddy Waters, Australia	scsw	ScanSweden, Sweden
Fido	Scarlet Fido	SP1	Sylvain, France
FMB	FMB, Germany	Spec	The Spectre 3000, UK
FN	Fritz Nusser, Switzerland	SSh	Sasha Shmel, Russia
FYM	Remco, The Netherlands	Stanag	Stanag
GHn	Gary Hagermann, UK	tING	Thomas, Central Europe
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GS2	Gary Saucier, ME, USA	Tom	Tom, Lincs, UK
HFD	Hans-Friedrich Dumrese, Germany	Tom-I	Tom, via remote rx Italy
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All information in this newsletter was submitted by independent radio monitors or has been obtained from public available sources and public sites on the web. Wherever data was obtained via the web or elsewhere, references and/or links to these sources have been noted.

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