

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 #175, April 2012

Editor: Ary Boender email: 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>

RIVET

On April 30th Ian Wraith reports that Rivet build 22 is ready for download. Currently the program decodes the modes XPA , XPA2 , CROWD36 (partially) , CIS36-50 (BEE) and FSK 200/500 but more modes will be added soon. The program can decode directly from your PC's soundcard or from a WAV file. The program is written in Java so it should run on any PC which has Java installed. If you haven't got Java then you can download it from <http://www.java.com> Download Rivet from <https://github.com/IanWraith/Rivet/downloads>

Some have problems running Rivet on a Windows-7 PC with java6 ver 160-31-b05. Error message: invalid jarfile.

Danix suggests this workaround in the console (cmd.exe):

```
javaw -Xmx1024m -cp rivet_b20.jar  
org.eclipse.jdt.internal.jarinjarloader.JarRsrcLoader org.e2k.Rivet
```


How do I enable and view the Java Console?

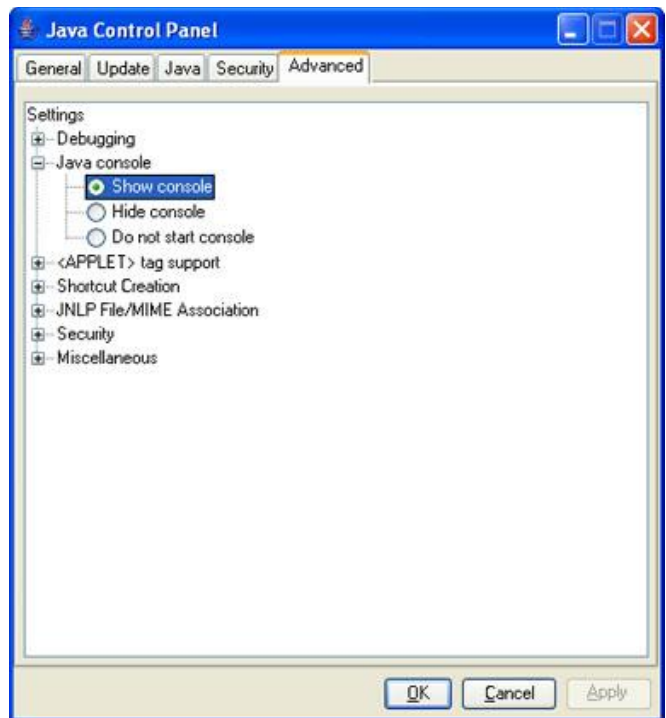
(Copied from the Java website www.java.com)

Platforms: Windows 7, Vista, Windows XP, Windows 2000

Java versions: 6.0

Enabling the Java Console. Method 1:

1. Click Start
2. Select Settings
3. Select Control Panel.
4. Double click the Java icon.
5. Click the Advance tab.
6. Click on the  sign
7. Select Show Console and click Apply.



Enabling the Java Console. Method 2:

1. Locate Java icon from the System tray on lower right hand side of screen.
2. Right click on Java icon
3. Select Open Console.

I was asked to include frequencies and schedules of clandestine stations and terrorist groups in N&O.

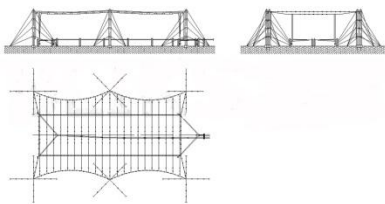
I agree that it would be a welcome addition and it would fit N&O perfectly. However, I do not have up-to-date clandestine schedules and also no information about terrorist/smuggler/pirate communication channels. If anyone can help me with this I'd be happy to include the info in N&O. So, please mail me if you can help.

What do we have for you this time:

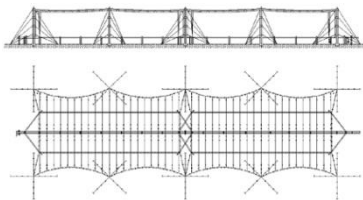
- A little bit of history: the Linkmakalnis and Garliavia KGB/GRU stations
- Intelligence profiles: Kyrgistan, Moldova, and Uzbekistan
- A new XP-variant was discovered
- Many logs and transcript submitted by a lot of monitors, including Avare, Spectre, Jim, JPL, Capitanex, FMB, and Douglas. Thanks for that
- V02a, M08a, SK01 schedules provided by Mark Slaten
- M94 and V24 schedules provided by Token
- On the N&O and UDXF websites: several new recordings



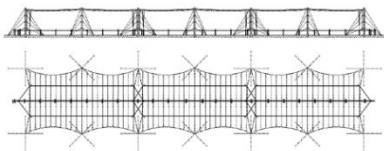
KGB shield



BS2 antenna



2BS2 antenna



3BS2 antenna



Fobos then.

Picture: Vilensija

KGB/GRU SIGINT stations Linksmakalnis & Garliava, Lithuania

Jan Machalski sent me 3 hours of morse transmissions sent by the former KGB/GRU SIGINT station in Linksmakalnis, Lithuania. The large HF and satellite SIGINT station in Linksmakalnis and a small HF transmitting site in nearby Garliava were operational for almost 50 years. Linksmakalnis is located at 54 deg. 45' 39" N / 23 deg. 56' 31" E. The site was the home of military unit 71272. The satellite station was called "Fobos". Operations ceased in 1991. The last antennas were demolished in 2005.

The station was so secret that people which served there were instructed to avoid contact with the local population. Linksmakalnis did not even appear on maps that were published in the 1970s and 1980s.

Besides a large satellite dish ca. 30 BS type antennas of various configurations were installed at the Linksmakalnis receiving radio station. The directional high gain HF (2-24 MHz) receiving antennas were also in use at other Soviet communications and comint stations.

- BS-2 (double side-by-side antenna), communications distance 300-3000 km depending on configuration.
- 2BS2 (two double antennas), communications distance 3000-6000 km depending on configuration.
- 3BS2 (three double antennas), communications distance over 6000 km
- 6 to 14 masts. Width 57...62 m, length 68... 96 m.

The transmissions consist of a large number of 5LGs or 5FGs messages. Most of them are 50 or 100 groups long. Cut zero. No callsigns.

VVV VVV VVV NR 6 GR 5T =
63728 72816 T9845 657T1 37864
21753 35142 49T75 59T86 45723
62835 1T946 7583T 91362 597T4
83195 T2761 15726 5139T 3847T
49387 18765 94T86 2T759 41527
16459 358T6 832T6 94723 93824
82791 712T6 317T4 9T651 16384
852T3 97162 59472 T6538 43879
T3287 21659 462T1 64709 49261
29357 50419 27169 651T7 94637
= AR



GRU shield



Fobos now.

Picture: Vilensija



The transmissions were recorded between 1985 and 1990.

I have uploaded them to the N&O and UDXF websites.



E06

13530/14910 kHz, 06-04, 0500/0600 UTC:

951 674 102
67813 89293 34882 16924 39120 38820 57932 61564 70086 39646
22788 43272 34828 89568 29537 93074 15980 15308 54533 81484
84839 41987 41528 92955 67161 90827 33914 05852 36173 16012
02771 51428 04225 16638 50400 25050 92626 84712 94034 49490
17902 75112 59410 09547 15607 08466 38893 13409 81525 42868
93835 97220 18222 75392 05873 25465 04736 59321 06814 59225
31612 48032 41851 90941 68445 01492 45747 44111 56138 16274
36704 61369 41047 65058 57585 29386 93216 56535 19205 14017
75876 51662 25340 04140 58405 97196 84176 87633 89924 62463
35864 07906 75740 90272 50880 74442 23795 97943 78871 25781
53324 89351
674 102 00000

5879/5866/4923 kHz, 31-3, 01-04

759 486 31
37534 83947 48706 90372 85169 01937 77081 21163 67583 75763
52156 12111 29379 66009 39722 81494 83598 21169 73613 30405
70239 88958 06074 63294 02760 67590 57821 07068 07249 20409
85008
486 31 00000

6918/5133 kHz, 07-4, 08-04, 0030/0130 UTC:

759 814 32
96453 07522 78129 03616 98889 67428 60728 54125 49845 68446
68011 56482 66262 48185 27551 21191 38811 25801 39100 41905
85257 12556 46162 47063 77360 90067 45953 43412 27240 85905
86163 93608
814 32 00000

6918/5133 kHz, 14-04, 15-04, 0030/0130 UTC:

759 302 41
72032 81918 44929 73224 32596 02361 57836 04034 81992 45907
57486 07491 03335 63042 45990 17562 58526 98627 99285 47109
52769 58127 17030 31118 19459 75887 82753 21198 61447 65158
32700 23542 09574 54537 56795 97526 84434 40521 80189 57150
72295
302 41 00000

6918/5133 kHz, 28-04, 29-04, 0030/0130 UTC:

759 168 34
54160 81095 86331 21988 55980 71116 30811 64988 17648 31039
79638 11748 47273 71885 15345 87010 04008 41540 12972 19080
69866 27598 73069 98573 12274 13831 22766 77517 48262 44947
58340 75952 46275 79350
168 34 00000

Recording: <http://www.youtube.com/watch?v=H4QEblnEggk>

5186 kHz, 19-04, 2030 UTC:

891 902 15
76546 78675 54345 54678 98076 65456 43452 43564 54789 67567
76545 43423 34213 54567 76754
902 15 00000

Recording: http://www.youtube.com/watch?v=k_4Q8ZCp2CU

5197 kHz, 06-04, 2130 UTC:

315 672 15
90345 67845 36987 23467 87654 35642 11234 45789 97656 70123
45089 77634 23148 37557 25464
672 15 00000

Recording: <http://www.youtube.com/watch?v=bCT7NSO3L4U>

5197 kHz, 20-04, 2130 UTC:

579 476 15
14325 67895 09876 45678 34562 56743 12365 09876 34576 08796
34215 56743 23465 76543 67895
476 15 00000

Recording: <http://www.youtube.com/watch?v=g1h6v-t34Mk>

6918/5133 kHz, 21-04, 22-04, 0030/0130 UTC:

759 801 34
05360 48126 30248 01123 39397 32122 42797 40654 00265 59689
06130 70063 02535 70029 05760 37335 99731 53363 55583 08668
45554 49137 72450 26284 30268 42659 03687 04482 29862 89318
60263 97225 49622 03130
801 34 00000



E07

E07a, 7437 kHz, 19-04, 0430 UTC:

411 1 11512 362 61
 81275 22672 21295 58263 77208 35139 48044 27451 02527 91282
 35142 20070 86244 41468 77073 02736 26371 86420 19022 21571
 99305 15673 82099 64424 28148 46844 58163 15897 01229 57394
 19583 68971 34569 37967 30415 41820 91205 81994 56877 53516
 98318 28376 07112 46007 06118 05864 04887 48792 67391 48558
 42846 81241 15921 97195 36749 75213 70552 63943 75164 10647
 78682
 000 000

16264/14352 kHz, 05-04, 1510/1520 UTC. E07 with new voice:

621 1 7601 30
 36143 07505 60984 76427 16349 65154 76711 06436 23795 61450
 62675 24680 45612 31864 84351 16737 33160 30701 03149 17567
 59531 47948 29124 18136 57195 10453 17623 78962 47665 86210
 000 000

Recording: <http://www.youtube.com/watch?v=iTBJ0-dnD-o>

E07a 8173/7473/5773 kHz, 04-04, 2000/2020/2040 UTC:

147 1 36562 49
 44021 45000 27277 34239 95206 76431 26524 54616 67764 58954
 06831 66181 40408 15469 32747 43439 35719 79718 25329 17374
 22922 00972 93905 18040 88899 64757 74598 10475 02414 08326
 58740 84814 86484 10040 39178 72338 08416 21554 30994 58389
 69764 29132 16765 71742 11612 95482 72991 95910 27480
 000 000

E07a 7437/8137/9137 kHz, 05-04, 0430/0450/0510 UTC:

411 1 36562 49
 44021 45000 27277 34239 95206 76431 26524 54616 67764 58954
 06831 66181 40408 15469 32747 43439 35719 79718 25329 17374
 22922 00972 93905 18040 88899 64757 74598 10475 02414 08326
 58740 84814 86484 10040 39178 72338 08416 21554 30994 58389
 69764 29132 16765 71742 11612 95482 72991 95910 27480
 000 000

Recording: <http://www.youtube.com/watch?v=BzfgA2zVD74>

10708 kHz, 18-04, 1920 UTC: 172 172 172 000

12108 kHz, 23-04, 1900 UTC: 172 172 172 000

10708 kHz, 23-04, 1920 UTC: 172 172 172 000

9208 kHz, 30-04, 1940 UTC: E07 with a defective transmitter:

172 1 957 100
 46104 36468 26818 63047 88250 29135 20285 15344 55147 92968
 04471 59187 14598 52015 29600 17120 92405 81925 03544 58531
 03802 88040 21117 29967 82028 46056 95068 13672 27544 88143
 30743 13724 19841 84348 43176 04709 17269 90951 19067 57697
 79387 50742 25544 43055 51966 73615 00117 23891 84691 59476
 33279 67193 95250 49975 99932 56206 26941 89037 38042 39143
 88300 58084 12446 82785 35966 92964 04247 54307 22031 22436
 06393 39820 62955 06338 68083 25209 65331 17731 60577 89279
 29649 36310 62469 45698 61391 37979 38344 95477 83015 12457
 35485 21285 54291 73640 26966 68076 14895 08217 52392 33974
 000 000

E07a 8173/7473/5773 kHz, 18-04, 2000/2020/2040 UTC:

147 1 11512 362 61
 81275 22672 21295 58263 77208 35139 48044 27451 02527 91282
 35142 20070 86244 41468 77073 02736 26371 86420 19022 21571
 99305 15673 82099 64424 28148 46844 58163 15976 01229 57394
 19583 68971 34569 37967 30415 41820 91205 81994 56877 53516
 98318 28376 07112 46007 06118 05864 04887 48792 67391 48558
 42846 81241 15921 97195 36749 75213 70552 63943 75164 10647
 78682
 000 000

E07a 7437/8137/9137 kHz, 19-04, 0430/0450/0510 UTC:

411 1 11512 362 61
 81275 22672 21295 58263 77208 35139 48044 27451 02527 91282
 35142 20070 86244 41468 77073 02736 26371 86420 19022 21571
 99305 15673 82099 64424 28148 46844 58163 15976 01229 57394
 19583 68971 34569 37967 30415 41820 91205 81994 56877 53516
 98318 28376 07112 46007 06118 05864 04887 48792 67391 48558
 42846 81241 15921 97195 36749 75213 70552 63943 75164 10647
 78682
 000 000



E10

Israeli Intelligence

I found an electronic copy of the book "By Way of Deception" written by Victor Ostrovsky and Claire Hoy; no idea if it is legal. <http://www.whale.to/c/OSTROVbywayofdecep.pdf>

It mentions the following about radio Communication: *"Then came more lessons on secret communications, divided into sending and receiving. Sent from the Mossad, communications could be by radio, letter, telephone, dead-letter drop, or actual meetings. Each agent with a radio was given a certain time each day that his message*

would be broadcast over a special nonstop station that is now computerized; for example, "This is for Charlie," then a code of letters in groups of five. The message changed only once a week to give the agent a chance to hear it. Agents had a radio and a fixed antenna, usually at their home or place of business."



E11/ E11a

10690 kHz, 02-04, 0830 UTC: 649/00
9399 kHz, 02-04, 0900 UTC: 438/00
6814 kHz, 05-04, 0800 UTC: 534/00
10690 kHz, 05-04, 0830 UTC: 649/00
4909 kHz, 05-04, 0900 UTC: 248/00
10221 kHz, 06-04, 0710 UTC: 633/00
10800 kHz, 10-04, 0645 UTC: 517/00
9399 kHz, 11-04, 0900 UTC: 534/00
15915 kHz, 12-04, 1155 UTC: 718/00
4909 kHz, 14-04, 1445 UTC: 287/00
6814 kHz, 16-04, 0820 UTC: 438/00
7449 kHz, 17-04, 1045 UTC: 469/00
9399 kHz, 18-04, 0900 UTC: 534/00
7449 kHz, 18-04, 1045 UTC: 469/00
9371 kHz, 19-04, 1730 UTC: 416/00
9399 kHz, 25-04, 0900 UTC: 532/33
7449 kHz, 25-04, 1045 UTC: 463/36
15915 kHz, 25-04, 1155 UTC: 718/00
14575 kHz, 16-04, 0745 UTC: 335/00
6814 kHz, 30-04, 0820 UTC: 438/00

13375 kHz, 06-04, 1400 UTC:

981/10 Attention

89667 65677 64450 71114 79440 45492 70872
43309 93425 08284

Out

13375 kHz, 10-04, 1400 UTC:

981/10 Attention

50426 42791 86529 58411 51034 29652 28220
66476 36590 51426

Out

13375 kHz, 14-04, 1400 UTC:

981/10 Attention

51703 84854 20199 79234 33048 98205 77551
24593 26370 13896

Out

13375 kHz, 17-04, 1400 UTC:

981/10 Attention

39698 29571 48740 72146 23849 93190 39918
85034 05302 04915 Attention, repeat message,
out

14575 kHz, 12-04, 0745 UTC:

337/32 Attention

33247 45407 57049 30993 30003 09990 03590 79197 85026 92336
44202 93900 23029 09420 36399 74626 16166 07192 19274 33782
17881 33085 30113 28466 52535 87156 85855 09925 75239 44019
34785 71613

Attention, repeat message, out

9399 kHz, 25-04, 0900 UTC:

532/33 Attention

43388 04595 73919 16333 94723 40250 67932 96080 05835 98240
59906 01418 25703 14823 39107 43459 29189 00848 20180 41676
48358 75131 83797 09995 42048 06906 55943 99856 81833 85494
42158 48929 99148

Attention, repeat message, Out

10690 kHz, 26-04, 0830 UTC:

644/32 Attention

41176 79190 74745 35708 84862 07554 97753 10804 44307 66572
04536 27963 84165 77454 31770 84659 22192 53685 23366 68099
38481 77216 21430 60919 92928 71117 72395 56451 50325 00743
13209 64708

Attention, repeat message, Out

6304 kHz, 09-04, 0450 UTC:

417/38 Attention

78669 38687 39585 56896 76445 75882 96875 45878 57279 77279
58887 37646 87686 65322 78223 56625 67652 49777 48680 43537
55697 84537 52745 22766 52045 74869 79525 76433 43376 46579
78600 90779 80492 94524 43792 63347 97089 679**

Out * = Not Heard.

10221 kHz, 10-04, 0710 UTC:

630/31 Attention

67858 62624 85437 43486 16713 45273 53479 29697 84695 96384
29278 23332 82302 31105 36885 14611 08565 94569 61595 79595
62545 15726 24681 34722 26112 83006 64188 08956 81322 50500
28157 Out

10690 kHz, 26-04, 0830 UTC:

644/32 Attention

41176 79190 74745 35708 84862 07554 97753 10804 44307 66572
04536 27963 84165 77454 31770 84659 22192 53685 23366 68099
38481 77216 21430 60919 92928 71117 72395 56451 50325 00743
13209 64708 Out



674 539 8
82897 50755 43552 67353 58438 35553 25245 89664
539 8 00000



6140 kHz, 03-03, 0929 UTC:	YL. 135 10 135 10 135 10 135 10 135 10 135 10 135 10 135 10 135 10 135 10 135 10 135 10 135 10 135 10 135 10 135 10 message message message
6140 kHz, 01-04, 0823 UTC:	Music "Ahwak"
6140 kHz, 02-04, 0758 UTC:	YL. O12 012 012 012 012 012 012 012 012 012 012 012 012 012 012 012 message message message 3305 0550 7646 1705 7426 9099 1840 rebat rebat rebat 3305 0550 7646 170 (tone) rebat 3305 0 rebat 330 rebat 330 rebat 330 rebat (pause...tone...pause) rebat rebat rebat 3305 0
6140 kHz, 02-04, 1111 UTC:	YL. 880 880 880 880 880 880 880 880 880 880 880 880 880 880 880 message message message 3340 7121 1094 6272 4798 8593 0555 5291 4078 2569 0895 3340 rebat rebat rebat 3340 7121 1094 6272 4798 8593 0555 5291 4078 2569 0895 3340 EOM EOT
6140 kHz, 03-04, 0757 UTC:	YL. 360 017 95 360 017 95 360 017 95 360 017 95 360 017 95 360 01 01 01 01 message message message 9410 4066 7575 8257 8729 9410 1007 rebat rebat rebat 3180 9410 4066 7575 8257 8729 9410 1007 EOM
6140 kHz, 03-04, 0929 UTC:	YL. 135 10 message message message
6140 kHz, 03-04, 1027 UTC:	YL. 672 672 672 672 672 672 672 672 672 672 672 672 672 672 672 message message message 6520 2032 7742 7069 2499 9206 3255 5776 rebat rebat rebat 6520 2032 7742 7069 2499 9206 3255 5776 EOM
6140 kHz, 03-04, 1112UTC:	YL. 887 14 message message message rebat rebat rebat EOM EOT
9450 kHz, 03-04, 1311 UTC:	YL. 785 29 30 31 788 4 785 29 30 31 788 4 785 29 30 31 788 4 785 29 30 31 788 4 785 29 30 31 788 4 785 29 30 31 788 4 785 29 30 31 788 4 785 29 30 31 788 4 785 29 30 31 788 4 785 29 30 31 788 4 785 29 30 31 788 4 785 29 30 31 788 4 785 29 30 31 788 4
6140 kHz, 04-04, 1025 UTC:	Tone ...672...message...
9450 kHz, 05-04, 1317 UTC:	785 788 ... 78 78 EOM EOT
6140 kHz, 07-04, 0722 UTC:	Start-up noises. AM or suppressed LSB. The music sounds as if it is a reroute from some BC station.
6140 kHz, 07-04, 0757 UTC:	360 360 360 360 360 360 360 360 360 360 360 360 360 360 360 message message message 2680 0410 6239 2421 5757 8729 0410 1005 rebat rebat rebat 2680 0410 6239 2421 5757 8729 0 (xmtr off, then on) 10 1005 EOM EOT
6140 kHz, 07-04, 0927 UTC:	YL. 333 333 333 333 333 333 333 333 333 333 333 333 333 333 333 333 333 message message message 3180 8020 1747 01 (xmtr off, then on) 8 1485 4813 2538 8020 rebat rebat rebat 3180 802 (truncated, then tone) 3180 8020 173 (14 sec pause) 3 (13 sec pause, then tone) 333 333 333 333 333 333 333 3(xmtr off, then on)3 333 333 message message message 31 message (truncated, 8 sec pause, then tone) 333 333 333 333 333 333 333 333 333 333 333 333 333 333 333 message message message 3180 8020 1747 0178 1485 4813 2538 8020 rebat rebat

	rebeat 3180 8020 1747 0178 1485 4813 2538 8020 EOM EOT
6140 kHz, 07-04, 0943 UTC:	YL. 333 333 333... message message message 3180 8020 1747 0178 1485 4813 2538 8020 rebeat rebound rebound 3180 8020 1747 0178 1485 4813 2538 8020 EOM EOT 333 333 333 333 333 333 333 333 333 333 333 333 333 333 333 333 333 message message message 3180 8020 1747 0178 1485 4813 2538 8020 rebound rebound rebound 3180 8020 1747 0178 1485 4813 2538 8020 EOM 333 333 333 333 333 333 333 333 333 333 333 333 333 333 333 333 333 333 333 message message message 3180 8020 1747 0178 1485 4813 2538 8020 rebound rebound rebound 3180 8020 1747 0178 1485 4813 2538. Message truncated.
6140 kHz, 07-04, 0957 UTC:	YL. 333 333 333... message message message 3180 801 1 2 0 1471 0178 1485 4813 2538 8020 rebeat rebound rebound 3180 8020 1747 0178 14854813 2538 8020 EOM EOT 333 333 333 333
6140 kHz, 07-04, 1043 UTC:	YL. 128 128 128 128 128 (stutter) 8 128 128 128 128 128 128 128 me(word "message" truncated) 128 message message message 9367 6001 3520 9231 3603 2192 0592 9338 5616 3520 rebound rebound rebound 9367 6001 3520 9231 3603 2192 0592 9338 5616 3520 EOM EOT
6140 kHz, 08-04, 0801 UTC:	YL. 364 14 364 14 364 14 364 14 364 14 364 14 364 14 364 14 364 14 364 14 364 14 364 14 364 14 364 14 364 14 message message message rebound rebound rebound EOM EOT
6140 kHz, 08-04, 0850 UTC:	YL. 169 169 169 169 169 169 169 169 169 169 169 169 169 169 169 169 169 169 169 message message message 1745 9260 8349 6087 6175 5395 7542 5601 3372 8226 9075 5510 rebound rebound rebound 1745 9260 8349 6087 6175 5395 7542 5601 3372 8226 9075 5510 EOM
6140 kHz, 08-04, 0937 UTC:	YL. 333 333 333 333 333 333 333 333 333 333 333 message message message 3180 8020 1747 0178 1485 481...(rest not copied due to a power outage)
6140 kHz, 08-04, 1044 UTC:	YL. 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 message message message 9367 6001 3520 9231 3603 2192 0592 9338 5616 3520 rebound rebound rebound 9367 6001 3520 9231 3603 2192 0592 9338 5616 3520 EOM
6140 kHz, 09-04, 0824 UTC:	YL. Auto recording failed. Caught live from this point on. "rebound rebound rebound 5590 8870 3289 4080 9207 5256 7645 7211 7363 4871 EOM EOT"
6140 kHz, 09-04, 0829 UTC:	YL. 701 701 701 701 701 701 701 701 701 701 701 701 701 701 701 701 message message message 2711 5640 5201 5576 9726 9027 1660 2007 9220 5640 rebound rebound rebound 2711 5640 5201 5576 9726 9027 1660 2007 9220 5640 EOM EOT
6140 kHz, 09-04, 0958 UTC:	YL. 570 570 570 570 570 570 570 570 570 570 570 570 570 570 570 570 message message message 8632 4076 1018 7342 3492 1345 6498 7170 4138 4122 3951 rebound rebound rebound 8632 4076 1018 7342 3492 1345 6498 7170 4138 4122 3951 EOM EOT
6140 kHz, 09-04, 1048 UTC:	YL. Message message message rebound rebound rebound ///34 sec pause, tone, 36 sec pause, tone, 5 sec pause, tone, 39 sec pause, tone, dead carrier followed by several clicks. A male voice says "Hello", then taps the microphone several times. More clicks followed at 1052 UTC by a male voice "54 (more taps on the mike) 54 126 54 126 54 126 54 126 54 126 54 126 54 126 54 54 126 54 126 54 126 54 126 54 126 54 (more taps on the mike) 126 54 126 54 126 54 126 54 126 54 126 54 126 54 126 54 126 54. Again mike tapping, 39 sec pause, dead carrier, transmitter off. At 1059 UTC: "54".
6140 kHz, 10-04, 0732 UTC:	Xmtr on, brief music, xmtr off
6140 kHz, 10-04, 0812 UTC:	YL. 185 185 185 185 185 185 185 185 185 185 185 185 185 185 185 185 message message message 5590 8870 3289 4080 9207 5256 7645 7211 7363 4871 rebound rebound rebound 5590 8870 3289 4080 9207 5256 7645 7211 7363 4871 EOM EOT
6140 kHz, 10-04, 0826 UTC:	YL. 702 25 702 25 702 25 702 25 702 25 702 25 702 25 702 25 702 25 702 25 702 25 702 25 702 25 702 25 702 25 message message message rebound rebound rebound EOM EOT
6140 kHz, 10-04, 0832 UTC:	YL. 702 25 702 25 702 25 702 25 702 25 702 25 702 25 702 25 702 25 702 25 702 25 702 25 702 25 702 25 702 25 message message message rebound rebound rebound EOM EOT
6140 kHz, 10-04, 0940 UTC:	Music. Partial "Arouh le-min". Music repeated 3x
6140 kHz, 10-04, 1007 UTC:	Music. Full version of "Arouh le-min"
6140 kHz, 10-04, 1142 UTC:	Some sort of marshalling music. Fades out and another Arabic song is audible during ca 10 secs. Then the songs "Umm Khultom" and Yahcha Bibi?" follow.
9450 kHz, 10-04, 1311 UTC:	YL. 785 38 788 4 34 785 38 788 4 34 785 38 788 4 34 785 38 788 4 3 4 785 38 788 4 34 785 38 788 4 34 785 38 788 4 34 785 38 788 4 34 785 38 788 4 34 785 38 788 4 34 785 38 788 4 34 785 38 788 4 34 785 38 788 4 34 785 38 788 4 34 785 38 788 4 34 78 78 78 78 7 rebound rebound rebound EOM EOT
6140 kHz, 12-04, 0730 UTC:	Cairo Radio? Brief music followed by brief interview in Arabic. Transmission truncated. E25 style.
9450 kHz, 12-04, 1312 UTC:	YL. 785 34 39 788 4 785 34 39 788 4 785 34 39 788 4 785 34 39 788 4 785 34 39 788 4 785 34 39 788 4 785 34 39... 788 4 785 34 39 788 4 785 34 39 788 4 785 34 39 788 4 785 34 39 788 4 785 34 39 788 4 785 34 39 788 4 785 34 39 788 4 785 34 39 788 4 785 34 39 788 4 785 34 39 788 4 785 34 39 788 4 7 7 7 7 7 message message message rebound rebound rebound EOM

6140 kHz, 16-04, 0913 UTC:	YL. 955 6 955 6 955 6 955 6 955 6 955 6 955 6 955 6 955 6 955 6 955 6 955 6 955 6 955 6 955 6 955 6 955 6 955 6
6140 kHz, 16-04, 0927 UTC:	YL. 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 message message message 0662 8917 1688 2926 3957 9640 2042 5159 1175 7614 3594 repeat repeat repeat 0662 8917 1688 2926 3957 9640 2042 5159 1175 7614 3594 EOM.
6140 kHz, 17-04, 0745 UTC:	Ringing noise; music
6140 kHz, 17-04, 0928 UTC:	YL. 2 EOM 155 1 33 4 11935 173 31 8638 3985 81321 3 16 (pause) 1383 133 (pause, tone) 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 message message message 0662 8917 1688 2926 3957 9640 2042 5159 1175 7614 3594 repeat repeat repeat 0662 8917 1688 2926 3957 9640 2042 5159 1175 7614 3594 EOM
9450 kHz, 17-04, 1227 UTC:	tone..song..555..MSG..RBT..EOM
6140 kHz, 18-04, 0757 UTC:	YL. 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 message message message 6221 1034 5320 8883 2956 4316 9611 4382 9184 8670 2801 4471 repeat repeat repeat 6221 1034 5320 8883 2956 4316 9611 4382 9184 8670 2801 4471 EOM (pause) EOT
9450 kHz, 18-04, 1157 UTC:	YL. 275 275 275 275 275 275 275 275 275 275 275 message message message 280 repeat repeat repeat 280 EOM
9450 kHz, 18-04, 1226 UTC:	Music "Arouh Al-min". YL. 57 6 557 message message repeat repeat repeat EOM EOT
9450 kHz, 23-04, 1316 UTC:	YL. 780 4959 2021 6510 3505 1237 0610 0434 9493 7519 8527 6143 6510. Spider solitaire sounds heard after EOT
9450 kHz, 23-04, 1325 UTC:	Spider solitaire game being played. Cards being delt a few times and winning then Xmtr off. Very bizarre
9450 kHz, 24-04, 1315 UTC:	785 41 788 4 7 7 7 7 7
6140 kHz, 25-04, 0827 UTC:	Xmtr on. Music "Ahwak" begins. Tone. Music



EV01

10700 kHz, 07-04, 1340 UTC:	Tentative EV01. Very weak.
10700 kHz, 07-04, 1515 UTC:	Multiple messages similar format to past, possibly repeats of the same messages as past. Instant messaging sounds heard mixed in with the numbers audio at 1519 UTC, including the sound of someone going off-line, the "door creaking shut" sound. Station off at 1528 UTC.
16400 kHz, 14-04, 0240 UTC:	Tentative EV01 in progress



G06

6774 kHz, 02-04, 0800 UTC: 215 215 215 00000
5378 kHz, 02-04, 1800 UTC: 154 154 154 00000
5446 kHz, 11-04, 1300 UTC: 154 154 154 00000 mixing with S30
6774 kHz, 30-04, 0800 UTC: 215 215 215 00000
5442 kHz, 13-04, 27-04, 1930 UTC. Recording: http://www.youtube.com/watch?v=fk_W662DVak

947 368 15
23456 78965 08976 56473 23451 56743 67809 07865 34563 67895 12356 78960 61156 67543 56758
368 15 00000



G11

5815 kHz, 01-04, 1755 UTC: 270/00
 6433 kHz, 01-04, 2000 UTC: 262/00
 5815 kHz, 20-04, 1325 UTC: 299/00

5815 kHz, 10-04, 1755 UTC:

277/33 Achtung

92387 11085 56358 80296 35479 20647 75565 99663 75443 34125
 14317 69977 67819 96564 25119 02069 46864 22355 33975 28184
 82500 86255 71106 34055 48945 51062 90828 04469 49991 84640
 37248 26590 93477

Out

6433 kHz 27-04, 29-04, 2000 UTC::

264/35 Achtung

99500 87252 74741 64800 67627 56844 14719 44623 57954 73643
 06785 73400 08714 53337 99147 62209 81357 45531 09037 78601
 03475 05427 94110 50622 35135 63978 19878 06233 05972 85975
 10517 08115 42682 33967 59098

Ende

Recording: <http://www.youtube.com/watch?v=rl-pXwznu4M>

Recording: <http://www.youtube.com/watch?v=SiY8q1kas7Q>



S06/S06s

9145 kHz, 02-04, 1200 UTC: 831 974 5 46248 70256 93569 94550 13685 974 5 00000

5760/6930 kHz, 03-04, 0700/0715 UTC: 374 501 6 07904 23455 79454 53314 73466 49747 501 6 00000

11635/10420 kHz, 03-04, 0800/0810 UTC: 352 904 6 64877 42500 81125 47646 79398 77705 904 6 00000

6410/7340 kHz, 03-04, 1000/1010 UTC: 893 512 6 64435 42795 58512 88101 01353 04528 512 6 00000

12952/13565 kHz, 05-04, 0900/0910 UTC: 167 982 5 52411 73692 24015 89986 10351 982 5 00000

6340/5470 kHz, 06-04, 0600/0610 UTC: 934 502 6 33692 25785 52352 92577 30105 51622 502 6 00000

12140/13515 kHz, 06-04, 0930/0940 UTC: 516 840 7 91009 87653 46372 98987 67335 23568 12453 840 7 000000

5760/6930 kHz, 10-04, 0700/0715 UTC: 374 501 6 07904 23455 79454 53314 73466 49747 501 6 00000

11635/10420 kHz, 10-04, 0800/0810 UTC: 352 904 6 64877 42500 81125 47646 79398 77705 904 6 00000

9255 kHz, 11-04, 0830 UTC: 471 529 6 13438 55536 44452 65824 05561 57735 529 6 00000

7335/11830 kHz, 11-04, 0830/0840 UTC: 745 218 6 82424 88878 19755 43455 64174 14553 218 6 00000

13365/14505 kHz, 11-04, 1000/1010 UTC: 729 418 5 62229 91489 77614 84292 04768 418 5 00000

7120/6414 kHz, 11-04, 1200/1210 UTC: 481 927 5 45453 23831 05746 58393 42400 927 5 00000

8105 kHz, 11-04, 1240 UTC: 967 832 5 84751 07258 53539 21655 67842 832 5 00000

6340/5470 kHz, 13-04, 0600/0610 UTC: 934 502 6 33692 25785 52352 92577 30105 51622 502 6 00000

12140/13515 kHz, 1304, 0930/0940 UTC: 516 840 7 91009 87653 46372 98987 67335 23568 12453 840 7 000000

7612 kHz, 14-04, 1605 UTC: 134 134 134 00000

9145/11460 kHz, 16-04, 1200/1210 UTC: 831 925 5 35884 10092 55671 16752 45718 925 5 00000

6410/7340 kHz, 17-04, 1000/1010 UTC: 893 527 6 15450 72110 85565 52805 28824 45083 527 6 00000

6464 kHz, 17-04, 1500 UTC: 537 214 6 29058 30922 21455 72495 92582 33205 214 6 00000

13365/14505 kHz, 18-04, 1000/1010 UTC: 729 463 5 76043 39221 89067 65547 11043 463 5 00000

12140/13515 kHz, 20-04, 0930/0940 UTC: 516 439 7 14225 97567 66668 79045 15229 11050 58821 439 7 00000
 5760/6930 kHz, 24-04, 0700/0715 UTC: 374 502 6 24255 42897 98895 96124 11581 28355 502 6 00000
 11635/10420 kHz, 24-04, 0800/0810 UTC: 352 948 6 48705 43951 66535 50746 43485 75058 948 6 00000
 7605/9255 kHz, 25-05, 0820/0830 UTC: 471 850 6 54146 66941 40521 88695 67126 65351 850 6 00000
 7335/11830 kHz, 25-04, 0830/0840 UTC: 745 298 6 94289 15244 21541 56567 48850 68867 298 6 00000
 13365/14505 kHz, 25-04, 1000/1010 UTC: 729 463 5 76043 39221 89067 65547 11043 463 5 00000
 6340/5470 kHz, 27-04, 0600/0610 UTC: 931 507 6 56432 78964 56423 12315 79845 67664 507 6 00000
 10954 kHz, 30-04, 1238 UTC: 831 831 831 00000



S11a

7317 kHz, 03-04, 0915 UTC: 484/00
 7317 kHz, 06-04, 0915 UTC: 484/00
 7317 kHz, 10-04, 0915 UTC: 484/00
 9399 kHz, 16-04, 0900 UTC: 534/00
 9960 kHz, 17-04, 1020 UTC: 426/00
 9960 kHz, 20-04, 1020 UTC: 426/00
 7317 kHz, 24-04, 0915 UTC: 484/00
 5815 kHz, 25-04, 1020 UTC: 221/00
 16112 kHz, 30-04, 1015 UTC: 575/00

9960 kHz, 03-04, 0915 UTC: 427/31
 7317 kHz, 06-04, 0915 UTC: Vnimanie
 39907 86795 02463 40761 23052 53481 54812 92314 96256 76111
 85373 17620 37753 43128 48260 05485 61678 24154 78589 89075
 47765 62965 97225 28484 80449 04073 10646 75394 61990 76045
 12775
 Vnimanie -repeat msg- Koniec



S21

4454/4854 kHz, 03-04, 1842 UTC:

454 173 37
 85922 51556 36612 11709 81690 42115 14577 97508 28750 57881
 46878 23340 13034 81315 69852 65722 64176 06157 01447 04921
 79923 69316 80572 45667 28065 78891 64233 35917 14145 84187
 33063 85193 49541 44790 37701 91613 89218
 173 37 000



S28 - The Buzzer

Mode: USB
Frequency: 4625 kHz

02-04, 1144 UTC:	MDZhB 85 461 BASHMACHNIK 36 67 09 22
02-04, 1149 UTC:	MDZhB 32 229 KASHIKA 49 25 29 46
02-04, 1232 UTC:	MDZhB 23 034 GASHENIE 26 47 82 23
02-04, 1314 UTC:	MDZhB 97 213 NACHERNENIE 72 80 33 08
02-04, 1335 UTC:	MDZhB 86 315 NAKHLYNOK 67 69 18 19
02-04, 1435 UTC:	MDZhB 37 587 MAKHILIS 72 06 62 09 NAKHILA
02-04, 1456 UTC:	MDZhB 81 968 NAFTOKS 21 02 58 93
09-04, 0110 UTC:	MDZhB 21 416 ZATYChKA 74 78 81 18 GASTROL 74 42 85 13 PATRUBEN 24 36 53 69
09-04, 0359 UTC:	MDZhB PRELShChENIJE 91 19
09-04, 1037 UTC:	MDZhB 69 987 VATOChNIK 98 83 44 10
09-04, 1142 UTC:	MDZhB 07 512 NATORChIKA 61 51 10 75 MDZhB 30 280 VATOA 59 67 17 04
09-04, 1202 UTC:	MDZhB 95 013 MALTIDIT 31 34 20 54 SATELLIT 64 63 39 84
09-04, 1227 UTC:	MDZhB 68 331 PASKhA 52 40 44 55
09-04, 1256 UTC:	MDZhB 79 567 RASTUN 69 37 76 91
09-04, 1301 UTC:	MDZhB 49 860 RASTUN 69 37 76 91
09-04, 1335 UTC:	MDZhB GASTROPTOZ 02 57 01 21 MDZhB 51 775 KASTELYaN 72 18 24 22 MDZhB 05 633 RASSEV 48 99 62 66 VASSALNYJ 76 17 61 38
10-04, 0358 UTC:	MDZhB Kreditor 05 72
10-04, 0406 UTC:	MDZHB Predzor'e10 18
11-04, 1130 UTC:	MDZhB 84 428 Tasmaniya 76 19 79 76
11-04, 1137 UTC:	MDZhB 93 676 Laskota 15 12 24 01
11-04, 1144 UTC:	MDZhB 78 968 Paskoit 91 31 72 65
11-04, 1252 UTC:	MDZhB 60 840 Vasilisnik 86 57 93 23
12-04, 0829 UTC:	MDZhB 45 355 Naryvnyj 51 59 56 16 (Girl in the background "оперативный дежурный" "operations duty officer")
12-04, 0840 UTC:	MDZhB 57 967 Chary 41 19 69 63
12-04, 0903 UTC:	MDZhB 38 133 Paruslo 53 43 72 00 Martirolog 90 51 00 25
12-04, 1220 UTC:	MDZhB 40 439 Zarostok 53 58 28 68
12-04, 1223 UTC:	MDZhB 42 067 Baronet 52 87 08 70
12-04, 1227 UTC:	MDZhB 76 807 Maroni 10 32 40 64 Varovik 91 16 99 92 Tarnyj 95 41 78 04
12-04, 1301 UTC:	MDZhB 00 283 09 458 Maroni 10 32 40 64 Varovik 91 16 99 92 Tarnyj 95 41 78 04 Barnichanye 65 32 80 20
12-04, 1305 UTC:	MDZhB 57 119 Varlon' 73 42 64 15 Garlitsin 33 96 30 34 Marfokan 70 73 87 69 Barisfera 04 75 73 01 Kariotserit 35 41 07 25
13-04, 1400 UTC:	MDZhB Ergotrat 77 85
19-04, 0829 UTC:	MDZhB 06 492 BARASh 42 86 01 31
19-04, 0834 UTC:	MDZhB 92 171 Barvena 74 92 76 94
19-04, 0927 UTC:	MDZhB 04 097 GARDINOL 14 64 97 04
19-04, 0936 UTC:	MDZhB 15 242 KARBORATSIYa 29 04 38 17
19-04, 1022 UTC:	MDZhB 83 160 KARBITKA 37 99 98 13
19-04, 1044 UTC:	MDZhB 49 565 KARBAKTOKS 50 49 53 83
23-04, 0950 UTC:	MDZhB 76 020 PARASTIKh 07 11 64 84
23-04, 1005 UTC:	MDZhB 39 134 BARANETs 04 52 16 01

Notes:

Like most of the time, the 2nd letter of the old format code words is the same throughout the month. Last month the letters "O" and "V" were the 2nd letters in most of the messages. This month it's the letter "A"

A distorted male voice was heard on 4625 kHz on the 22nd. The man read his message between the buzzes. In the background you could clearly hear the pulses of a Chayka station. Chayka is the Russian counterpart of the LORAN

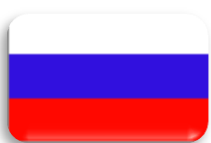
stations and operates on 100 kHz. That means that the 4625 transmitter (or the audio source) can be located near one of several remaining "Chayka" stations in the European part of Russia: Petrozavodsk, Karachaev near Briansk, Syzran.

On April 9th distorted voices were audible for many hours, a cross-modulation from other co-located transmitter. A male voice repeated dozens of messages and callsigns ending with "priyom". Almost certain S6930 that uses the same transmitter site as S28. Other co-channel interference appeared also on the 9th between 0107 and 0110 UTC when Russian and Turkish voices were heard.

On April 12th we witnessed the first 5 code words message.

Recordings available from the N&O website.

Thanks to Jan, Avare and Dauntless for the additional comments.



S30 - The Pip

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

All S30 logs were provided by Avare. Thanks for that.

5448 kHz, 09-04, 1334 UTC: 8S1Shch 61 546 Sobratsvo 35 40 72 56 priyom

5446 kHz, 11-04, 1300 UTC: mixing with G06

3756 kHz, 22-04, 0044 UTC: The pip changes its tone. It sounds like the modulator broke down. Later that day a message was sent 1 kHz off freq. probably due to the same problem.

3755 kHz, 22-04, 1851 UTC: Weather forecast for 8S1Shch

5448 kHz, 24-04, 1328 UTC: Weather forecast. "8S1Shch Oblachnost' 3-6 balla, po yugu 6 balla, dymka, mestami dozhd', vidimost' 6-10 km, mestami 3-4 km, veter zapadnyĭ 4-7 m/s mestami poryvy 12-14 m/s, temperatura po severu +3+6S po yugu +7+10S pory zakryty. Priyom"

5448 kHz, 25-04, 1355 UTC: Weather forecast for 8S1Shch



S32 - Squeaky Wheel

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

02-04, 1149 UTC: Al'fa-45 19 164 UMYVAL'SHCHIK 61 79 98 18 Priyom



S5426

Frequency: 5426 kHz
Mode: USB

02-04, 1207 UTC: Finara-55 34 829 AMETIST 42 56 85 80 ya Arbat-50 Priyom



S6930

Frequency: 6930 kHz

Mode: USB

20-03, 0822 UTC: Katok-65 43335 Etka 29 89 16 04 priyom
20-03, 1427 UTC: Sandal-27 82920 Nora 6480 1938 Priyom
20-03, 1427 UTC: Roza-15 82920 Nora 6480 1938 Priyom
20-03, 1435 UTC: Kvadrat-41 55981 Affekt 47 65 43 34 priyom
20-03, 1440 UTC: Teugol'nik-43 97611 Gallereya 13 94 12 94 priyom
20-03, 1447 UTC: Tora-80 73476 Shveya 8946 9301 Priyom
23-03, 0806 UTC: Treugolnik-43, ya Kvadrat-41. Kak slyshite menia? Priyom.
20-03, 1427 UTC: Krug-45, ya Kvadrat-41. Kak slyshite menia? Priyom
20-03, 1427 UTC: Trapetsiya-46, ya Kvadrat-41. Kak slyshite menia? Priyom..
20-03, 1427 UTC: Karabin-47, ya Kvadrat-41. Kak slyshite menia? Priyom.
23-03, 1701 UTC: Marka-31 34 208 Remont 31 04 34 99
24-03, 1931 UTC: Tora-80 51404 Leto 72 74 88 81 priyom
25-03, 0456 UTC: Katok-65 62939 Disk 51 41 27 72 priyom
10-04, 0710-0730: Several messages and calls.

09-04, the cross modulation heard on 4625 kHz was most probably S6930 that uses the same transmitter site.



V02a

Dirección General de Inteligencia



Picture: the two V02 HF transmitters near Caimito, Cuba.

Mark Slater provided us with the current V02a, M08a and SK01 schedules. THANKS Mark !!!

Current Cuban Skeds Heard From 0000-0700 UTC

This covers 1900-0200 local EDT in the USA

(March-April 2012)

SUN	0000	0100	0200	0300	0400	0500	0600	0700
							9124(SK) 0600	5883(P)
							9063(SK) 0630	
						5898(P)	5800(S)	
MON	0000	0100	0200	0300	0400	0500	0600	0700
				6855(P)	5117(S)		11435(SK) 0600	5883(P)
				5800(P)	6768(S)		11532(SK) 0630	
					4035(I)			
TUE	0000	0100	0200	0300	0400	0500	0600	0700
							9124(SK) 0600	5883(P)
							9063(SK) 0630	
						5898(P)	5800(S)	
WED	0000	0100	0200	0300	0400	0500	0600	0700
							11435(SK) 0600	5800(SK)
							11532(SK) 0630	
							9063(SK) 0600	
							5898(SK) 0630	
						5810(P)(?)	5810(S)(?)	9153(P)
THUR	0000	0100	0200	0300	0400	0500	0600	0700
							9124(SK) 0600	5883(P)
							9063(SK) 0630	
				10445(P)	11565(S)	5898(P)	5800(S)	
FRI	0000	0100	0200	0300	0400	0500	0600	0700
		4028(P)	5417(S)				11435(SK) 0600	5883(P)
							11532(SK) 0630	
						5898(P)	5800(S)	9153(P)
SAT	0000	0100	0200	0300	0400	0500	0600	0700
		6768(P)	5762(S)				11435(SK) 0600	5883(P)
							11532(SK) 0630	
						5898(P)	5800(S)	

Current Cuban Skeds Heard From 0800-1500 UTC

This covers 0300-1000 local EDT in the USA

(March-April 2012)

SUN	0800	0900	1000	1100	1200	1300	1400	1500
	5898(S)							
		10432(P)	9112(S)					
MON	0800	0900	1000	1100	1200	1300	1400	1500
	5898(S)							
	8186(SK)	9063(SK)						
		10432(P)	9112(S)			7579(P)	8096(S)	
TUE	0800	0900	1000	1100	1200	1300	1400	1500
	5898(S)		8186(SK)1000					
	8180(SK)	8180(SK)	7890(SK)1030					
		5947(SK)0900(?)						
		5930(SK)0930(?)						
						7579(P)	8096(S)	
WED	0800	0900	1000	1100	1200	1300	1400	1500
	5898(SK)(?)	9040(P)	9240(S)					
	8186(SK)	9063(SK)						
	9063(S)					7579(P)	8096(S)	

THUR	0800	0900	1000	1100	1200	1300	1400	1500
	<i>5898(S)</i>	<i>8180(SK)</i>	<i>8186(SK)1000</i>					
	<i>8180(SK)</i>	<i>5947(SK)0900</i>	<i>7890(SK)1030</i>					
		<i>5930(SK)0930</i>						
						7579(P)	8096(S)	
FRI	0800	0900	1000	1100	1200	1300	1400	1500
	<i>5898(S)</i>							
	9063(S)	10432(P)	9112(S)			7579(P)	8096(S)	
SAT	0800	0900	1000	1100	1200	1300	1400	1500
	<i>5898(S)</i>	<i>9040(P)</i>	<i>9240(S)</i>					
	<i>8186(SK)</i>	<i>9063(SK)</i>						
	<i>5883(SK)</i>	<i>5947(SK)0900</i>						
		<i>5930(SK)0930</i>						
				4478(?)				

Current Cuban Skeds Heard From 1600-2300 UTC
This covers 1100-1800 local EDT in the USA
(March-April 2012)

SUN	1600	1700	1800	1900	2000	2100	2200	2300
MON	1600	1700	1800	1900	2000	2100	2200	2300
	<i>6768(SK)</i>							
				6785(P)	7554(S)		7519(P)	8009(S)
			8097(P)	8097(S)				
TUE	1600	1700	1800	1900	2000	2100	2200	2300
	<i>6768(SK)</i>			<i>12180(P)</i>	<i>13380(S)</i>			
				6785(P)	7554(S)		7526(P)	8135(S)
WED	1600	1700	1800	1900	2000	2100	2200	2300
	<i>6768(SK)</i>							
				6785(P)	7554(S)		7519(P)	8009(S)
			8097(P)	8097(S)		6932(P)	6854(S)	
THUR	1600	1700	1800	1900	2000	2100	2200	2300
	<i>6768(SK)</i>			<i>12180(P)</i>	<i>13380(S)</i>			
				6785(P)	7554(S)		8009(P)	8135(S)
						6932(P)	6854(S)	
FRI	1600	1700	1800	1900	2000	2100	2200	2300
	<i>6768(SK)</i>							
				6785(P)	7554(S)		7519(P)	8135(S)
			8097(P)	8097(S)				
SAT	1600	1700	1800	1900	2000	2100	2200	2300
				6785(P)	7554(S)			
			8097(P)	8097(S)				

Notes:

Skeds in MCW mode indicated in shaded cell.

V2a skeds are indicated in italic fonts.

M8a skeds are indicated in normal fonts.

The primary or first sked is indicated with (P).

The secondary, second or repeat sked is indicated with (S).

All skeds normally begin on the hour.

Frequencies listed as (), denote primary or secondary sked not determined.

Frequencies listed without (), denotes a possible sked.

Skeds with (?) have not been heard in over two months.

SK01 notes: At present SK01 seems to be using exclusively RDFT mode.

--Updated April 28, 2012--

Cuban Desk Contributors: H. Tate (kc5mo), Kd4kym (South Carolina, USA), Westt1us, Mark Slaten



V13 - New Star Broadcasting Station

星星廣播電台 Xīngxīng guǎngbò diàntái

New Star #3: 0700, 0800 UTC: 7688 kHz

New Star #4: 0500, 0600, 1200, 1300 UTC: 7580 kHz

Not heard after April 7th during any of its schedules. According to the BI newsletter V13 is now using 11440 kHz for its 0500 and 0600 transmissions. So far it hasn't been heard on that frequency. Please let us know if you hear the station.



V24

Token found V24 with a new female voice. This voice was probably introduced per April 1st. You can find a recording on the N&O website. Token provided also the latest schedules for V24 and M94. See below.

Schedule for V24 and M94 transmission predictions, Version 5. The last four remaining M94 time slots are highlighted in **BLUE**. 4900, 5115, 6215, and 6310 kHz are all active. 6730 and 6330 kHz removed from use in January. 5715 kHz removed from use starting the first day of February, 2012, it appears all previous 5715 kHz frequencies converted to 5115 kHz. 1240 UTC time slot began to become regularly used in January, V24 has used this time slot sporadically in the past. 1200 and 1230 time slots appear to be abandoned.

Some time slots are only used every other month.

*=only occurs on last day of the month, 29, 30, or 31, not on all three days

V24/M94 Schedule as of April 01, 2012

Day	1240	1300	1330	1400	1430	1500	1530	1600	1630
1		5115				5115	4900		
2		5115				6215	5115		
3		5115	6310			6215	5115	6215	
4		5115	6310			4900		6215	
5				5115	6310	4900	6310		6310
6		6310		5115	6310		6310		6310
7		6310							
8									
9									
10				M94 5115	5115				5115
11				M94 5115	5115				5115
12									
13							6310		
14	4900						6310		
15	4900				6310		4900		
16					6310	4900	4900		
17						4900	5115		
18		5115	6310			6215	5115		
19		5115	6310			6215		6215	6310
20				5115	5115	5115		6215	6310
21				5115	5115	5115	6310		
22							6310		
23			6310						
24		5115	6310						
25		5115							
26				M94 5115			6310		
27		6310		M94 5115			6310		
28	4900	6310							
29	4900					5115*	4900*		
30						5115*	4900*		
31						5115*	4900*		



VC01 **Chinese Robot**

Modes: USB and LSB

The station changes its frequencies frequently. Known frequencies:

3036, 3749, 3837, 4075, 4410, 4422, 4427, 4480, 4530, 4580, 5195, 5232, 5288, 5303, 5328, 5393, 5700, 5802, 5832, 6209, 6479, 6771, 6840, 6855, 6860, 6949, 6960, 7090, 7608, 7684, 7726, 7744, 7756, 7770, 7792, 7864, 7865, 7880, 7890, 7924, 8000, 8025, 8170, 9000, 9169, 9192, 9290, 9340, 10508 kHz.

5393 kHz, 03-04, 2029 UTC. Not //4580 kHz

4580 kHz, 03-04, 2029 UTC. Not //5393 kHz

5393 kHz, 05-04, 1428 UTC. Not //4580 kHz

4580 kHz, 05-04, 1428 UTC. Not //5393 kHz

4580 kHz, 06-04, 1305 UTC

5393 kHz, 06-04, 1308 UTC

4580 kHz, 08-04, 1912 UTC

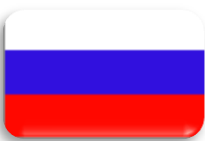
4580 kHz, 11-04, 1218 UTC

4580 kHz, 12-04, 1201 UTC

4580 kHz, 19-04, 1201 UTC

8170 kHz, 30-04, 1040 UTC

MORSE STATIONS



MX **Russian Military beacons**

Reported beacons and channel markers.

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

Asian Cluster Beacons: F, K, M



M01

M01 5017 kHz, 03-04, 2000 UTC:

463 122 30 =

45314 28902 35956 64405 02922 94783 52488 29448 61619 79031

06317 06315 35699 49059 06067 42607 32274 25634 02846 46880

12273 13768 47512 96690 46133 43671 97997 65970 12249 54690

= 122 30 000



M08a

Dirección General de Inteligencia

See V02a



M12

Capitanex sent us a lot of M12 logs. The new skeds will be uploaded to the N&O website shortly. Check the Logs Section for his logs.



M14

5463 kHz, 11-04, 1920 UTC:

537 761 15 =

87364 45638 76890 76545 42321 43679 90786 65467 65764 54654

87967 54634 54342 34231 54635

= 761 15 00000



M32

Russian/CIS/Ukrainian

Military SSB & CW Stations

4620 kHz, 05-04, 2302 UTC: SKHYEU SKHYEU 34197 15485 OTDANKA 7559 3327 K

4620 kHz, 05-04, 2304 UTC: SHCHRF SHCHRF 74640 PODVON 5186 1464 K

7041 kHz, 10-04, 2320 UTC: XXX XXX 2V8I 2V8I WRAGBYJ WRAGBYJ 1837 2883

6363 kHz, 11-04, 2000 UTC: XXX XXX MBP7 MBP7 94463 ALARMIT 8111 2507 K

XXX XXX MBP7 MBP7 25781 DOCKSN 7072 5195 K

XXX XXX MBP7 MBP7 26781 DOCKAS 7072 5195 K

2BYP 2BYP 83822 LLXDRADO 5617 5176 K

7041 kHz, 12-04, 2333 UTC: BYLA BYLA DE QHAD RPT K RK

LGED LGED DE QHAD K

11408 kHz, 13-04, 0700 UTC: XXX XXX REA4 REA4 17970 solodka 0837 8979

12736 kHz, 13-04, 0700 UTC: XXX XXX REA4 REA4 17970 solodka 0837 8979

11408 kHz, 13-04, 0848 UTC: XXX XXX JUE4 MJUR 74977 021 = DDDDD CMQMX AFIWG XDAG last group ChQWMA = K

12736 kHz, 13-04, 0848 UTC: XXX XXX JUE4 MJUR 74977 021 = DDDDD CMQMX AFIWG XDAG last group ChQWMA = K

11408 kHz, 13-04, 0908 UTC: XXX XXX REA4 REA4 38235 LORNETKA 4430 6376

12736 kHz, 13-04, 0908UTC: XXX XXX REA4 REA4 38235 LORNETKA 4430 6376

12832 kHz, 21-04, 0821 UTC: XXX XXX RMHB RMHB 60855 40931 EKSPRESSIYA 7784 8111

12832 kHz, 21-04, 0828 UTC: XXX XXX RMHB RMHB 01127 44364 HLOROFOS 7036 6713

6328 kHz, 22-04, 2018 UTC: XXX XXX RMHB RMHB 87731 38493 INTERPOL 1310 9239

4818 kHz, 22-04, 2018 UTC: XXX XXX RMHB RMHB 87731 38493 INTERPOL 1310 9239



M32a
Russian Navy
Voyenno-Morskoy Flot Rossii



20072 kHz seems to originate from the Moscow area. Used to handle traffic around hh:54, otherwise idling. Good visibility on Google earth at 55.883N 36.952E

Note: some DF results indicate that this originate from RIW HQ radio centre. RJES6, mil unit в/ч 49383, Radio centre Сокол-2 (Falcon-2).

7664 kHz

13-04, 1953 UTC: RGR35 de RIW QYT9 QSA4 QMO K

13-04, 1953 UTC: RIW: Moscow Naval Radio "RGR35 de RIW QYT9 QSA4 QMO K."

12464 kHz

16-04, 0904 UTC: RMCW: Russian naval vessel qtc to RCV 690 17 16 1302 690 = sml for rje73 rjh45
= 16091 99386 10252 42998 21910 10164 40111 52010 80002 22253 00154 20403
88000 16013 = + rmcw k

16-04, 1510 UTC: RMCW: Russian naval vessel qtc to rcv rmcw 618 16 16 1900 618 = sml for rje73
rjh45 = 16151 99378 10245 42897 10180 40119 53012 8553/ 22253 00164 20503
88000 16012 = + rmcw k



M32b
Russian Naval Aviation
Aviatsiya Voenno-morskogo Flota Rossii

8816 kHz

03-04, 0727 UTC: 44444: Russian Naval Air Transport qrc to RFJ94 "rcb 44444 qto 0705 qrd XLLV XMWB qre 1005
qah 5800 qbd 4200 k - qay evrr 0800 qah 5800 qbd 3600 k - qay EETT 0848 qal XLLV 0940 qah
5800 qbd 2800 k - qqm XLLV 0942 k"

04-04, 0606 UTC: 52575: Russian Naval Air Transport qtc to RJF94 "rjc38 52575 qto 0600 qrd XLWF XLMV qre
0920 qbd 4500 - qql XLMF 0634 qbg 5700 - qql ULPE 0717 qbd 3000 - qth 6117 3700 qtr 0822
qbd 3500 qre XLWF 0910 - qqm XLWF 0905

04-04, 1155 UTC: 08260: Russian Naval Air Transport qtc to RJF94 "rjc38 08260 qto 1148 qrd XLWF XRRC qre 1505
qbd 15500 - qth 5107 3937 qtr 1250 qbg 6700 - qay UDD 1350 qbk 6700 - qre XLWF 1450 -
qqm XLWF 1449 - qto 1615 qrd XLMV XLWF qre 1835 qbd 14500 - qth

05-04, ???? UTC: 08265: Russian Naval Air Transport qtc to RJF94 "rcb 08265 qto 1145 qrd XMWB XLMV qre
1555 qbd 16800 - qth 6334 3418 qtr 1244 qbg 7300 - qth 6002 3133 qtr 1338 qbd 11600 qre
XMWB 1555 - qth 5945 2427 qtr 1428 qbg 7300 - qth 5820 2040 qtr 1501 qre XMWB 1555 -
qqm XMWB 1549"

09-04, 0820 UTC: 52555: Russian Naval Air Transport tfc to RJF94 "rcb qto 0815 qrd XLLV XMWB qre 1105 qah
5800 qbd 4400 - qay EVRR 0900 qah 5800 qbd 3700 - qay EETT 1000 qal XLLV 1046 qah 5800
qbd 2900 - qqm XLLV 1052 - qto 1245 qrd XLAP XLLV qre 1445 qah 5800 qbd 4400 - qay ULWC
1350 qal XLAP 1430 qah 5800 qbd 3500 - qqm XLAP 1435 - qto 1533 qrd XLLV XLAP qre 1800
qah 5500 qbd 4300 - qay ULWR 1622 qal XLLV 1739 qah 5500 qbd 3600 - qqm XLLV 1752 sk"

09-04, 0938 UTC: 52575: Russian Naval Air Transport qtc to RJF94 rjc38 qto 0830 qrd XLAA XLMV qrd 4800 qre
1020 - qth 6617 3914 qtr 0934 qre XLAA 1010 - qqm XLAA 1008 - qto 1115 qrd XLWF XLAA qbd
4600 qre 1300 - qth 6132 3858 qtr 1225 qre XLWF 1325 - qqm XLWF 1337 sk"

09-04, ???? UTC: 08265: Russian Naval Air Transport qtc to RJC38 rjf94 qto 0645 qrd XLLV XLMV qre 0915 qbd
14000 - qql ULPE 0740 qbg 7300 - qth 6112 3224 qtr 0826 qre XLLV 0900 - qqm XLLV 0835 - qto
1210 qrd XMWB XLLV qre 1425 qbd 14500 - qth 5903 2110 qtr 1318 qbg 7300 - qth 5700 1955
qtr 1345 qre XMWB 1420 - qqm XMWB 1422 sk"

11354 kHz

03-04, ???? UTC: 75498 (Il-18 RA-75498 NAVY) call to MONOLOG: "05:53z landed at Novosibirsk".

05-04, ???? UTC: 52603 An-26 NAVY RUS to PRIBOJ, NOVATOR : "11:40z dep OSTAFYEVO, ETA SEVEROMORSK-3
15:35z , Fuel 5300kg" .

05-04, 0933 UTC: 54656 Il-20 radio check with PRIBOJ, NOVATOR

09-04, ???? UTC: 52582 An-26 Curl NAVY RUS call to PRIBOJ (female voice) : "07:35z dep PUSHKIN (near Sankt-
Peterburg) ETA OSTAFYEVO (UUMO) at 10:05z Fuel 4800"

09-04, ???? UTC: 52601 An-26 NAVY RUS call to PRIBOJ : "Dep OSTAF. at 07:25z ETA IVANOVO (Ivanovo has
aircraft repair plant) at 08:50z Fuel 5400, FL3950m"

09-04, ???? UTC: 52581 call to PRIBOJ : "Dep KACHA at 09:06z ETA Anapa at 10:25z Fuel 4500"



M32c
Russian Air Force
Voyenno-vozdushnye sily Rossii

6685 kHz

06-04, 1240 UTC: 76538 RA-76538 Il-76 call to Korsar: "Dep PSKOV at 10:10msk, ETA CHERNYAHOVSK

06-04, 0625 UTC: 76577 RA-76577 Il-76 r-check with Korsar

06-04, 0626 UTC: 78834 RA-78834 Il-76 call to Korsar , Davlenie

06-04, 0912 UTC: 78803 RA-78803 Il-76 Proselok "ETA Tolmachevo (Ekaterinburg)

11362 kHz

06-04, 0721 UTC: 78834 RA-78834 call to Korsar

06-04, 0831 UTC: 76599 RA-76599

6685 kHz:

c/s 78816 Il-76 Candid RA-78816 224 Flight Unit call to PROSYOLOK (answered by KORSAR): "12:53 UTC from KEDR(Bryansk AFB) to BUNTAR (Orenburg AFB)"

c/s 78796 Candid RA-78796 224 FU call to P (ans by K) : "1 hour flight, passed point TUPEN , Fuel 63t , to BUNTAR" 13:29 UTC

c/s 76538 Candid RA-76538 call to KORSAR : " 14:20 UTC landed at Kubinka AFB"

Add Naval Air Transport on 11354kHz:

c/s 52581 An-26 Curl NAVY call to PRIBOJ, KROKET: ""Dep ROSTOV at 04:20z , ETA KACHA at 06:50z Fuel4800kg".

c/s 52603 An-26 NAVY call to PRIBOJ : "Dep OSTAFYEVO at 11:57z , ETA EYSK at 15:15z , Fuel5000kg"+++passed point Petrovskoe+++passed point ROSNI at 14:39z , FL5800m, Fuel3100kg



M45

4555//4955 kHz, 03-04, 1802 UTC.

4555//4955 kHz, 05-04, 1802 UTC.

Different addressee but same message as sent by S21.

555 (R 4) 173 173 37 37 = =

85922 51556 36612 11709 84690 42115 14577 97508 28750 57881

46878 23340 13034 81315 69852 65722 64176 06157 01447 04921

79923 69316 80572 45667 28065 18891 64233 35917 14145 84187

33063 85193 49541 44790 37701 91613 89218 = =

173 173 37 37 000

4955//4555 kHz, 26-04, 1802 UTC.

555 (R 4) 214 214 30 30 - -

03771 25532 67276 01704 78293 70437 63422 12433 88223 87148

94227 12435 81406 17220 60821 19040 31269 90029 01292 48660

46335 56396 95714 53634 47202 41131 87162 82871 53170 70515

= = 214 214 30 30 000



M51 / FAV22
8ème Régiment de
Transmission

Check the Logs Sections for the logs. Sample messages below.

6950 kHz, 04-04, 1623 UTC:

NR 57 A 04 17:43:23 1984 =
 NVOFV TCNOM RHTAJ WUBOJ OHJXC UIJEQ MDQHK HYOAK YKNOS AVHHD
 QFUJF KYTEQ KTUYU ALXTV WKLKU QUVOJ SROWL MZIYH HZRDZ CJICX
 BYUYF DZDZN MPHIM JLCFD BWIUP MWDKG GRUOM JDKEK GJJSO XOZLU
 EEXTH XVTCO FRECC NVFPZ WOFZQ VZPBF QEDYV ZSUGG GJREO RFCOX
 TFMJZ GCATM CKKAH ZTLJL VLYRH FNJOR FYKJV IGJDU AZXGO CRTHS
 PJTDM QEXNR TBIXZ XKSTT CUHRR OTJGW TFAOJ LGKEG NPLGK JOEBJ
 JDGSR YZPUX XXZCU OCSLH SATUQ QRYYG CPFNV JYXXG QGKLR IJOQQ
 FLXSZ HGSKF NXFHK GXLQM UVLDM EYRPB SCPFP QHTPL TXIWM UKVKV
 TJNGM ORVUQ WIIHO YEYHI ZXTRD LLARE IHCBH ZEUAO SMVZM WXXSK
 VTYQK IHXAM XJKRC VTYCL LOXJP HNKLO ZUHFD GMNVG MDZWJ YUSYQ =

NR 58 A 04 17:49:46 1984 =
 BJTFH CSZWB VGKLG LKVVD LDOMU IWZZN JCYTQ UIJDH BDQLZ QJVRQ
 CYMEK OPTKU ZXUXT YFDEP DDVHI PMIRC EGVWZ ROZQK JHWFO BUSOC
 TZMTB KGGFI IREMO SOTZW JVEOI PHHKA PQMMI CURUY HFSJB MRKOF
 YVLWB PSBBR CCEPN XFNFN NFIHP QNQLZ XVHAP OCNBI KWOPA ARVCZ
 RTFRS RELIR CIHYD FUJKL ZXDER GVWKO JZRIG XJHZF INTNY VBOCW
 YNXCP GKEDF VETMX QB7AT CZQMK OVNAX UCOXS YNLVY KBRR L AEENO
 ZUWIN BZNPT LMFGV BBIYM OVBNL QBRLW HJDJD GIBIO KDBDY WCMGX
 KTTEI RDOOA WWAUE PCKPP ETGZC GRAGF GBVDD CLTNR JETOH QJHJX
 CBDIQ LDSIT AGRAN ZMBMX AAGWM SNTPC AKPCU KULFY WNWZT UGGTY
 LJQKK ERIBZ NHLDE QPIQQ SWNPA SJBKD ATFID JNXDP FEJDM UAWXG =



M89
Chinese military

This month's strings:

VVV Q2M Q2M Q2M DE NYZ NYZ QSA? k
 V 7NPE 7NPE 7NPE DE QV5B QV5B
 V GKVZ GKVZ GKVZ DE Q7NW Q7NW
 V H2FL H2FL H2FL DE DRV8 DRV8
 V WITN WITN WITN DE GNXG GNXG
 V DKG6 DKG6 DKG6 DE 3A7D 3A7D

Messages:

7607 kHz, 09-04, 1358 UTC:	VVV HR SVC NR 036 2145 RMKS 14780 TO 0393/0398 = COMM/2230/LZ851A/1478/.393 AGN (Rpt of msg) AR QSL? HR WWK NR 17 V WITN WITN WITN DE GNXG GNXG
5278 kHz, 19-04, 1736 UTC:	11 NR 11 KK VVV F1Q5 K VV V F1Q5 K VV VRV F1Q5 K (F1Q5 appears to be a callsign) UQSY TO NR 12 NR 12 UQSY TO NR 12 NR 12 UQSY TO Nr 12 NR 12 KK VV K (1737Z) K UB EEE UQSY TO NR 7 NR 7 UQSY TO NR 7 NR 7 UQSY TO NR 7 NR 7 K K HR 7G GA HR 7G 65 V V HR 65 HR 7G 65 7G NR 08/CCK CK25 84 T420 T135 BT 7G NR 08/CCK 25 84 T420 T135 BT Into 4 fig cut number cipher traffic AR AR QSL 0150 HR QSL 0150 HR NR 133 HR NR 133 SK SK
5500 kHz, 23-04, 0150 UTC:	SVC UG VV UGT COMM BT 5282/0230/Z19/3893 AR VV UGT COMM BT 5282/0230/Z19/3893 AR (Silent) V 7NPE 7NPE 7NPE DE QV5B QV5B
5500 kHz, 23-04, 2101 UTC:	COMM BT 5172/0530/Z15/3893 AR AR AR V 7NPE 7NPE 7NPE DE QV5B QV5B
8789 kHz, 26-04, 1057 UTC:	VV HR SVC GA NR 155 1830 RMKS aw478 TO 0.85/1574 BT COMM/1915/LZ258a8/14 63/mw295 AR HR WK NR 36 QSL ?
5500 kHz, 23-04, 2101 UTC:	COMM BT 5172/0530/Z15/3893 AR AR AR V 7NPE 7NPE 7NPE DE QV5B QV5B



M94

Token provided the latest V24 and M94 schedules. See under V24.



M97

Vietnamese numbers

Frequency: 10375 kHz
Mode: Morse

Finally I heard a complete message live via the Hong Kong remote receiver. Here the logs for this month:

10375 kHz, 03-04, 1501 UTC: in progress "SD69 SN70" sent
10375 kHz, 06-04, 1454 UTC: "SD70 SN100" sent
10375 kHz, 17-04, 1452 UTC: "SD70 SN100" sent
10375 kHz, 23-04, 1452 UTC: "SD70 SN100"

aaaaaaaaaaaaaaaaaaaaaa
 SD70kkkSD70kkkSD70kkk
 HT HT HT
 SN100 SN100 SN100
 67576 78977 07951 63442 21064 00054 37529 02307 42152 25673
 82630 30547 92274 94474 04742 01609 88169 47097 48110 90841
 59061 31746 62193 56149 62637 31495 10141 39549 15130 16411
 31586 78723 14531 83067 97220 92595 02523 68808 31315 15077
 66805 64970 07526 32862 31044 42536 23484 24214 96988 18791
 28304 53105 14778 99887 02586 02359 18531 31412 71483 62249
 07232 18143 79120 09881 57260 30443 21965 51769 12738 90093
 53506 31465 89868 39229 67996 25489 52439 31945 94186 88184
 14228 92459 24688 53858 06097 75303 97146 12341 12096 99880
 79388 83885 59046 42034 42408 01751 63874 29424 97501 55538
 kkkkkkkkkkkkkkkkkkkkkkkkk

VARIOUS MODES



SK01
Dirección General de Inteligencia

See V02.

M42 & X06



Modes:
 Various digital modes + CW



16264 kHz, 01-04, 1510 UTC:	Mazielka. Sequence: 452163 mixing with E07
13481 kHz, 01-04, 1510 UTC:	Mazielka. Sequence: 452163
9425 kHz, 02-04, 1610 UTC:	Russian Intel. Mode: FSK 200/1000
6957 kHz, 02-04, 1620 UTC:	Russian Intel. Mode: FSK 200/1000
7992 kHz, 02-04, 1640 UTC:	Russian Intel. Mode: FSK 200/1000
5913 kHz, 02-04, 1650 UTC:	Russian Intel. Mode: FSK 200/1000
11121 kHz, 02-04, 1700 UTC:	Russian Intel. Mode: FSK 200/1000
9068 kHz, 02-04, 1710 UTC:	Russian Intel. Mode: FSK 200/1000
11612 kHz, 04-04, 1600 UTC:	Russian Intel. Mode: FSK 200/1000
6957 kHz, 04-04, 1620 UTC:	Russian Intel. Mode: FSK 200/1000
10688 kHz, 04-04, 1630 UTC:	Russian Intel. Mode: FSK 200/1000

7992 kHz, 04-04, 1640 UTC:	Russian Intel. Mode: FSK 200/1000
5913 kHz, 04-04, 1650 UTC:	Russian Intel. Mode: FSK 200/1000
11121 kHz, 04-04, 1700 UTC:	Russian Intel. Mode: FSK 200/1000
9068 kHz, 04-04, 1710 UTC:	Russian Intel. Mode: FSK 200/1000
6791 kHz, 04-04, 1720 UTC:	Russian Intel. Mode: FSK 200/1000
8189 kHz, 05-04, 0720 UTC:	Russian Intel. Mode: FSK 200/1000
12206 kHz, 05-04, 1015 UTC:	Russian Intel. Mode: FSK 200/500
9088 kHz, 07-04, 0506 UTC:	7ZGR: Russian Gov/Intel. "PR6O DE 7ZGR QSA? SLV K" into Baudot transmitting a 5F message with =50= separator. Mode: CW + Baudot 50/500
7841 kHz, 07-04, 2030 UTC:	Russian Intel. Mode: FSK 200/500
14805 kHz, 08-04, 1550 UTC:	Russian Intel. Mode: FSK 200/1000
11611 kHz, 08-04, 1600 UTC:	Russian Intel. Mode: FSK 200/1000
9425 kHz, 08-04, 1610 UTC:	Russian Intel. Mode: FSK 200/1000
6957 kHz, 08-04, 1620 UTC:	Russian Intel. Mode: FSK 200/1000
10688 kHz, 08-04, 1630 UTC:	Russian Intel. Mode: FSK 200/1000
7992 kHz, 08-04, 1640 UTC:	Russian Intel. Mode: FSK 200/1000
5913 kHz, 08-04, 1650 UTC:	Russian Intel. Mode: FSK 200/1000
11121 kHz, 08-04, 1700 UTC:	Russian Intel. Mode: FSK 200/1000
9068 kHz, 08-04, 1710 UTC:	Russian Intel. Mode: FSK 200/1000
6791 kHz, 08-04, 1720 UTC:	Russian Intel. Mode: FSK 200/1000
10688 kHz, 10-04, 1630 UTC:	Russian Intel. Mode: FSK 200/1000
11121 kHz, 10-04, 1700 UTC:	Russian Intel. Mode: FSK 200/1000
9946 kHz, 10-04, 1730 UTC:	Russian Intel. Mode: FSK 200/1000
9946 kHz, 10-04, 1730 UTC:	Russian Intel. Mode: FSK 200/1000
11053 kHz, 16-04, 0715 UTC:	Russian Intel. Mode: FSK 200/1000
8188 kHz, 16-04, 0720 UTC:	Russian Intel. Mode: FSK 200/1000
9437 kHz, 16-04, 0800 UTC:	Russian Intel. Mode: FSK 200/1000
6791 kHz, 16-04, 1720 UTC:	Russian Intel. Mode: FSK 200/1000
5460 kHz, 16-04, 1750 UTC:	Russian Intel. Mode: FSK 200/1000
9265 kHz, 17-04, 2300 UTC:	Russian Intel. Mode: FSK 200/1000
7870 kHz, 17-04, 2310 UTC:	Russian Intel. Mode: FSK 200/1000
5355 kHz, 17-04, 2320 UTC:	Russian Intel. Mode: FSK 200/1000
13439 kHz, 19-04, 1340 UTC:	Russian Intel. Mode: FSK 200/1000
11428 kHz, 19-04, 1350 UTC:	Russian Intel. Mode: FSK 200/1000
23473 kHz, 20-04, 0942 UTC:	Russian Gov. Mode: CROWD-36
20177 kHz, 20-04, 0953 UTC:	Russian Gov. Mode: CROWD-36
15863.5 kHz, 20-04, 1009 UTC:	Russian Gov. Mode: CROWD-36
16320 kHz, 20-04, 0928 UTC:	Mazialka. Sequence: 241563 (24min long transmission)
14824 kHz, 20-04, 1021 UTC:	Mazialka. Sequence: 625413
10687 kHz, 20-04, 1630 UTC:	Russian Intel. Mode: FSK 200/1000
7992 kHz, 20-04, 1640 UTC:	Russian Intel. Mode: FSK 200/1000
5913 kHz, 20-04, 1650 UTC:	Russian Intel. Mode: FSK 200/1000
12186 kHz, 21-04, 0810 UTC:	Russian Intel. Mode: FSK 200/1000
10630 kHz, 21-04, 0820 UTC:	Russian Intel. Mode: FSK 200/1000
14393 kHz, 21-04, 1100 UTC:	Russian Intel. Mode: FSK 200/1000
12198 kHz, 21-04, 1110 UTC:	Russian Intel. Mode: FSK 200/1000
10529 kHz, 21-04, 1120 UTC:	Russian Intel. Mode: FSK 200/1000
16159 kHz, 21-04, 1216 UTC:	Russian Intel. Mode: FSK 200/500
14551 kHz, 21-04, 1220 UTC:	Russian Intel. Mode: FSK 200/500
13396 kHz, 21-04, 1620 UTC:	Russian Intel. Mode: FSK 200/1000
11482 kHz, 21-04, 2010 UTC:	Russian Intel. Mode: FSK 200/500
9226 kHz, 21-04, 2020 UTC:	Russian Intel. Mode: FSK 200/500
7841 kHz, 21-04, 2030 UTC:	Russian Intel. Mode: FSK 200/500
12187 kHz, 25-04, 0820 UTC:	Russian Intel. Mode: FSK 200/1000
12206 kHz, 25-04, 1015 UTC:	Russian Intel. Mode: FSK 200/500
11122 kHz, 22-04, 1705 UTC:	Russian Intel. Mode: FSK 200/1000
9067 kHz, 22-04, 1708 UTC:	Russian Intel. Mode: FSK 200/1000
6791 kHz, 22-04, 1710 UTC:	Russian Intel. Mode: FSK 200/1000
9186 kHz, 26-04, 1900 UTC:	Russian Intel. "00000++++++162)5761" Mode: Baudot 200/500

6989 kHz, 26-04, 1910 UTC:	Russian Intel. "00000+++++++162)5761" Mode: Baudot 200/500
5127 kHz, 26-04, 1920 UTC:	Russian Intel. "00000+++++++162)5761" Mode: Baudot 200/500
12220 kHz, 28-04, 0931 UTC:	Russian Intel. Mode: FSK 200/1000
10631 kHz, 29-04, 0820 UTC:	Russian Intel. Mode: FSK 200/1000
16103 kHz, 29-04, 0956 UTC:	Mazielka. Sequence: 645321
14547 kHz, 29-04, 1003 UTC:	Mazielka. Sequence: 645321



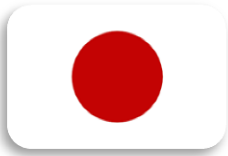
XP family

8063 kHz, 29-03, 1950 UTC: 304 304 304 1 into 64 5FGs

A new XP-variant popped up on April 3rd. It starts with the same tones as XPA does (sent for 2 mins), then into a yet unidentified mode. Token and Spectre recorded it. Both recording can be found on the N&O website. The new XP-variant was heard on no less than 36 frequencies. Here are Spectre's logs:

Freq.	enigma	mode	date	utc	remarks
16332	X--	USB	3-4-2012	1410	XPA start tones followed by unid data
16264	X--	USB	3-4-2012	1510	XPA start tones followed by unid data
14353	X--	USB	3-4-2012	1520	XPA start tones followed by unid data
16332	X--	USB	4-4-2012	1410	XPA start tones followed by unid data
16264	X--	USB	4-4-2012	1510	XPA start tones followed by unid data
14353	X--	USB	4-4-2012	1520	XPA start tones followed by unid data
18559	X--	USB	6-4-2012	1400	XPA start tones followed by unid data
17477	X--	USB	6-4-2012	1405	XPA start tones followed by unid data
16332	X--	USB	6-4-2012	1410	XPA start tones followed by unid data
15869	X--	USB	6-4-2012	1415	XPA start tones followed by unid data
14472	X--	USB	6-4-2012	1420	XPA start tones followed by unid data
13456	X--	USB	6-4-2012	1425	XPA start tones followed by unid data
18332	X--	USB	6-4-2012	1500	XPA start tones followed by unid data
17423	X--	USB	6-4-2012	1505	XPA start tones followed by unid data
16264	X--	USB	6-4-2012	1510	XPA start tones followed by unid data
15841	X--	USB	6-4-2012	1515	XPA start tones followed by unid data
14353	X--	USB	6-4-2012	1520	XPA start tones followed by unid data
12229	X--	USB	6-4-2012	1525	XPA start tones followed by unid data
18172	X--	USB	6-4-2012	1600	XPA start tones followed by unid data
17448	X--	USB	6-4-2012	1605	XPA start tones followed by unid data
16117	X--	USB	6-4-2012	1610	XPA start tones followed by unid data
15823	X--	USB	6-4-2012	1615	XPA start tones followed by unid data
13876	X--	USB	6-4-2012	1620	XPA start tones followed by unid data
11442	X--	USB	6-4-2012	1625	XPA start tones followed by unid data
18559	X--	USB	9-4-2012	1400	XPA start tones followed by unid data
17477	X--	USB	9-4-2012	1405	XPA start tones followed by unid data
16332	X--	USB	9-4-2012	1410	Start tones. No traffic
15869	X--	USB	9-4-2012	1415	XPA start tones followed by unid data
14472	X--	USB	9-4-2012	1420	XPA start tones followed by unid data
13456	X--	USB	9-4-2012	1425	XPA start tones followed by unid data

Freq.	enigma	mode	date	utc	remarks
18332	X--	USB	9-4-2012	1500	XPA start tones followed by unid data
17423	X--	USB	9-4-2012	1505	XPA start tones followed by unid data
16264	X--	USB	9-4-2012	1510	XPA start tones followed by unid data
15841	X--	USB	9-4-2012	1515	XPA start tones followed by unid data
14353	X--	USB	9-4-2012	1520	XPA start tones followed by unid data
12229	X--	USB	9-4-2012	1525	XPA start tones followed by unid data
18172	X--	USB	9-4-2012	1600	XPA start tones followed by unid data
17448	X--	USB	9-4-2012	1605	XPA start tones followed by unid data
16117	X--	USB	9-4-2012	1610	XPA start tones followed by unid data
15823	X--	USB	9-4-2012	1615	XPA start tones followed by unid data
13876	X--	USB	9-4-2012	1620	XPA start tones followed by unid data
11442	X--	USB	9-4-2012	1625	XPA start tones followed by unid data
20146	X--	USB	10-4-2012	1200	Start Tones. No traffic
19399	X--	USB	10-4-2012	1205	XPA start tones followed by unid data
18571	X--	USB	10-4-2012	1210	XPA start tones followed by unid data
17434	X--	USB	10-4-2012	1215	Start tones. QRT In Traffic
15879	X--	USB	10-4-2012	1220	XPA start tones followed by unid data
14613	X--	USB	10-4-2012	1225	XPA start tones followed by unid data
19348	X--	USB	10-4-2012	1300	Scheduled At 19438 kHz. Error?
18713	X--	USB	10-4-2012	1305	XPA start tones followed by unid data
17468	X--	USB	10-4-2012	1310	XPA start tones followed by unid data
15951	X--	USB	10-4-2012	1315	XPA start tones followed by unid data
14366	X--	USB	10-4-2012	1320	XPA start tones followed by unid data
13548	X--	USB	10-4-2012	1325	XPA start tones followed by unid data
18559	X--	USB	10-4-2012	1400	XPA start tones followed by unid data
17477	X--	USB	10-4-2012	1405	XPA start tones followed by unid data
16332	X--	USB	10-4-2012	1410	XPA start tones followed by unid data
15869	X--	USB	10-4-2012	1415	XPA start tones followed by unid data
14472	X--	USB	10-4-2012	1420	XPA start tones followed by unid data
13456	X--	USB	10-4-2012	1425	XPA start tones followed by unid data
18332	X--	USB	10-4-2012	1500	XPA start tones followed by unid data
17423	X--	USB	10-4-2012	1505	XPA start tones followed by unid data
16264	X--	USB	10-4-2012	1510	XPA start tones followed by unid data
15841	X--	USB	10-4-2012	1515	XPA start tones followed by unid data
14353	X--	USB	10-4-2012	1520	XPA start tones followed by unid data
12229	X--	USB	10-4-2012	1525	XPA start tones followed by unid data
18172	X--	USB	10-4-2012	1600	XPA start tones followed by unid data
17448	X--	USB	10-4-2012	1605	XPA start tones followed by unid data
16117	X--	USB	10-4-2012	1610	XPA start tones followed by unid data
15823	X--	USB	10-4-2012	1615	XPA start tones followed by unid data
13876	X--	USB	10-4-2012	1620	XPA start tones followed by unid data
11442	X--	USB	10-4-2012	1625	XPA start tones followed by unid data
16343	X--	USB	10-4-2012	1700	XPA start tones followed by unid data
15809	X--	USB	10-4-2012	1705	XPA start tones followed by unid data
14369	X--	USB	10-4-2012	1710	XPA start tones followed by unid data
12192	X--	USB	10-4-2012	1720	XPA start tones followed by unid data
10519	X--	USB	10-4-2012	1725	XPA start tones followed by unid data



XSL a.k.a. Slot Machine
Japan Maritime Self-Defense Force
海上自衛隊 Kaijō Jieitai
 Mode: QPSK 1500bd

Copied on 4153, 4231.5, 6250, 6417, 6445, 8313, 8588, 8703.5 kHz at 1311 UTC on April 6th.



North Korean diplomatic stations

14348.6 kHz, 29-03, 1117 UTC: DPRK embassy Moscow. Mode: DPRK-ARQ 1200
 21003.5 kHz, 20-04, 1327 UTC: DPRK Diplomatic station. Mode: DPRK-ARQ 600/600
 22673.5 kHz, 27-04, 0407 UTC: MFA Pyongyang. All encrypted text. Mode: DPRK-ARQ 600/600



Egyptian diplomatic stations

Modes: SITOR-A 100/170, CODAN

9035.0 kHz, 07-04, 0415 UTC: 99902: MFA Cairo EGY calling Baghdad. Sitor call TVVC /Codan call 6.
 Mode: USB/+1500 hz Codan chirp/+1700 hz Sitor-A 100/170
 9067.7 kHz, 06-04, 1937 UTC: MFA Cairo EGY clg selcall OOVF. Mode: SITOR-A 100/170
 7816.7 kHz, 14-04, 1938 UTC: Egyptian diplo. Mode: SITOR-A 100/170
 20126.7 kHz, 20-04, 0755 UTC: MFA Cairo Egypt, messages in Arabic to unid embassy. Mode: SITOR-A 100/170
 19434.7 kHz, 28-04, 1526 UTC: Egyptian Embassy Conakry with hex offline crypto to "71" (Egyptian Military Intelligence, Cairo). Mode: SITOR-A 100/170

UTILITY ROUND-UP

Jammers



12075 kHz, 02-04, 1400 UTC: Vietnamese Siren jammer jamming Radio Free Asia

Dauntless sent me a link to the Satdirectory website which hosts an interesting article about the Chinese Firedrake jammers. The Firedrake programs are delivered by satellite and Satdirectory has an excellent full hour Firedrake transmission available directly copied from the Chinasat 6B satellite.

You can download it from their website.
 Check it out: <http://www.satdirectory.com/firedrake.html>
 and <http://www.satdirectory.com/audio.html>



UNID STATIONS

I received a couple of unid logs from several dxers or via UDXF. If anyone can help identifying these stations, please mail me.

Unid on 6139 kHz. Copied by Douglas on 13-04 at 0725 UTC. Probably not E25 related. Two male operators calling numbers in Arabic "444445", "944444", "94 94", etc. Also repeating phrases.

This one comes from Ben in The Netherlands who copied this station on his new QS1R radio on April 4th at 2014 UTC. The station was drifting between 4895 and 5901 kHz. When it was transmitting the message, it tend to stay on frequency but wobbly. In between there were some long tones and at that time it would drift up or down. The station sent the following in Morse: "VVV VVV VVV DE 3X 3X 3X K"

The next three come from Dauntless who copied an unid beacon "E" or pip on 4210 kHz on 10th April at 0100 UTC.

On 23rd April, 0001 UTC he also copied an unid amateur station in Morse who sent "Happy Yuri Gagarin Day" on 7050 kHz. A bit late as the event took place between 12 an 14 April.

The 3rd one was a three second long tone with a gap of five seconds between each burst. Heard on multiple frequencies between 8995 and 14500 kHz on 14 April at 0256 UTC.

Transcript of 4 April, 2249 UTC:

LTG 1/3/
V LTQ DE LEA
LTQ
LTI DE LEA K
LTJ DE LEA K
LTK DE LEA QSX 2K
LTL DE LEA K
LTM DE LEA K
LTO DE LEA K
LTP DE LEA K
LTP QSX 2 K
LTO QSX 2 K
LTK QSX 2 K
LTK DE LEA K
LTK QSX 2 K
RED DE LEA K
LTK QSL RIZA DO_ POR NR 1027/05 QRA =
RESO QRA QSP ZYT 1 YJA/RBJ DGA AR

The next one comes from John K1RC in the USA. He found "LEA" on 10817.5 kHz on April 4th at 2249 UTC. The outstations were not heard. The transmission stopped at 2330 UTC. This net has been on the air since at least 2004 and is most probably an Argentine military network. Besides Morse also voice transmissions were heard in Spanish.

Known frequencies:
3391, 5368, 5416, 7986 & 10816 kHz.

Alf comments "What is interesting is that LTA is always on duplex, we never found a channel for the out stations. It looks like if all LTA frequencies might in parallel. So it might be worth checking the other known channels too. LTA starts with a VVV call giving a list of various LTAXX callsigns, reflect which channels are active. And add 3391 kHz to your list too. So far we saw "VVV DE" reports for LTA23, LTA25, LTA32, LTA35, LTA42, LTA55, LTA81, LTA83 and LTA93.

This unid Morse net transmitted on 8170 kHz. The traffic was copied on April 19th by Tom, Jim, and several other dxers. It seems like this is a simplex circuit with only some participants being heard here.

0948 UTC: TRL5 DE L2MU QTC K = 553 484 222 186 389 928 044 603 257 863 K
1012 UTC: TRL5 DE L2MU QTC K = 553 484 222 186 250 378 068 595 846 K
1031 UTC: TRL5 DE L2MU QTC K = 363 385 484 222 186 541 236 053 125 905 K
1058 UTC: W4H1 DE Q7VC K. TRL5 DE Q7VC K
1107 UTC: TRL5 DE L2MU QSA ? K
1109 UTC: VVV TRL5 DE L2MU QTC K = 799 693 987 487 K
1146 UTC: TRL5 DE Q7VC K = 220 765 110 125 060 K
1147 UTC: W4H1 DE Q7VC K = 220 765 110 125 060 K
1148 UTC: TRL5 DE L2MU QTC K = 553 385 484 901 186 753 849 306 002 487 K. L2MU AS 3. L2MU NR 7 849 849 GR 7 K
1231 UTC: TRL5 DE L2MU = 553 484 222 186 405 965 500 595 846 K
TRL5 DE L2MU QTC K = 321 186 595 125 306 044 014 K. C K AS3 K
1243 UTC: TRL5 DE L2MU QTC K = 553 385 484 901 186 752 849 306 002 487 K. GR NR 7 849 849 GR7 K. C K
1323 UTC: L2MU de Z6JH K. Nothing from L2MU. Then calls W4H1 (not heard) with apparent response QSA .. QSA ? K. OK
K. L2MU seems to have disappeared. The circuit is probably simplex with not all stations heard
1334 UTC: TRL5 de L2MU QSA? K. TRL5 de L2MU QTC K. = 553 484 222 186 405 965 500 595 846 K. C K
L2MU QTC K. = 799 783 883 288 815 K. C K

Patrick copied the Carabinieri on 7598 kHz LSB on 06-04 between 0633 and 0643 UTC. Also on 30-04, 0632-0640 UTC. Language: Italian. Nice catch!

IEA20: Carabinieri Comando Generale Roma clg various stations for radio check
IEA21: Carabinieri Torino. Radiocheck with IEA20
IEA24: Carabinieri Venezia. Radio check with IEA20
IEA25: Carabinieri Bolzano. Radio check with IEA20
IEA26: Carabinieri Padova. Radio check with IEA20
IET34: Carabinieri Perugia. Radio check with IEA20
IET35: Carabinieri Roma. Radio check with IEA20
IET36: Carabinieri Cagliari. Radio check with IEA20
IEU41: Carabinieri Napoli. Radio check with IEA20
IEU42: Carabinieri Catanzaro. Radio check with IEA20
IEU44: Carabinieri Pescara. Radio check with IEA20
IEU45: Carabinieri Palermo. Radio check with IEA20
IEU63: Carabinieri Potenza. Radio check with IEA20
MANGUSTA: Unid. Radio check with IEA20
LABOR: Unid. Radio check with IEA20

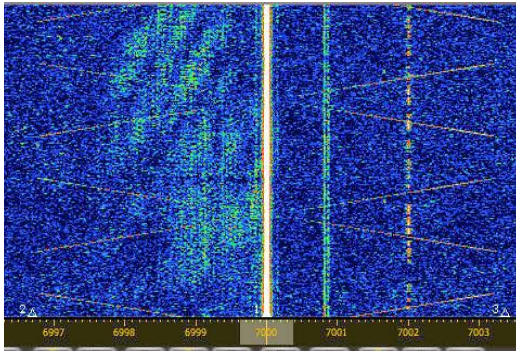
CARABINIERI



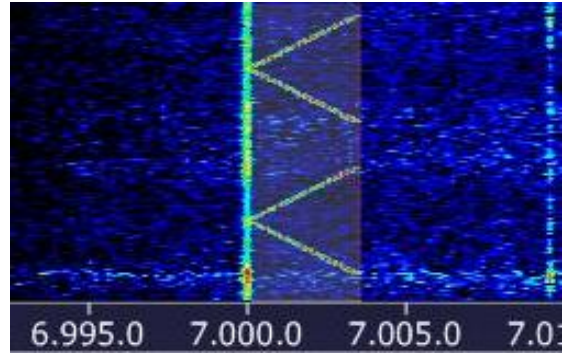
Radars/Sounders/etc.



An interesting signal was intercepted in the period between 20 March and 1 April and later again on 28 and 29-4. Frequency was 7000 kHz. The station transmitted possibly from Israel. The funny thing is that the sweeps formed the letter "X" (double sweep) and later the letter "K" (carrier + single sweep). See the sonograms below. A recording is available from the N&O website.



Double sweep



Single sweep

The IARUMS region 1 published recently an interesting document about the various radars that you can hear on SW: <http://www.iarums-r1.org/iarums/radar-2012.pdf>

Pirate stations



On April 7th a pirate station transmitted a numbers message on 6210 kHz, between 2020 and 2040 UTC in USB. A female voice read letters after a callup and 5 tones. The groups were repeated. The five dashes were copied from the buzzer and the letters were probably copied from a numbers station or an EAM.

CVY CVY CVY (R4)

Five tones

UNUNC UNUNC RGGLS RGGLS AALFG AALFG SSJBA SSJBA REVAT REVAT URAGU URAGU AHZOR AHZOR FTRRX FTRRX JVYYS JVYYS AQGUV AQGUV BARTE BARTE RGVAT RGVAT SEBZN SEBZN VENGR VENGR AQFBZ AGFBZ RKGEM RKGEM 00000 00000

After entering the text in Crypttool -code ROT13- the program gives the following translation:

PIL PIL PIL

HAHAP ETTYF NNYST FFWON ERING HENTH NUMBE SGEEK WILLF NDTHI ONEGR ETING FROMA IRATE NDSOM EXTRA 00000 00000

If you fill in the blanks you get this message:

HA HA PRETTY FUNNY STUFF. WONDERING HENTH NUMBERS GEEK WILL FIND THIS ONE. GREETING FROM A PIRATE AND SOME EXTRA 00000 00000

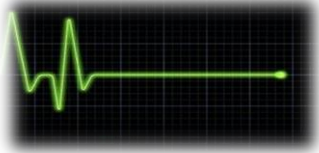
The transmissions were discovered by Alpha. Also copied by Manolis and several other dxers and recorded by Token. Manolis reports a Greek radio transmission a bit later on (Female talking about bonds) on the same frequency. It appears to be ERA Filia, a Greek MW station on 666 kHz. Station id "Foni tis Elladas" (Voice of Greece). 6210 kHz is a spurious signal. The Greek station has nothing to do with the numbers transmission.

Well done guys!!

BTW, if you are interested in Crypttool, you can download it here: <http://www.cryptool.org/en/>

Greek beacon "PRV" (Preveza, Greece) has been active on various days in April. At times it changed its callsign in "C". Frequency: 6852.1 kHz. (Source: Costas)

Unid Pips



We received the following report from Token and comments by Brandon re an unid "pip" station.

"On April 17th an unusual signal was reported in IRC. Not an uncommon occurrence ;-). A CW "Pip" was reported on multiple frequencies at the same time first noted about 0247z. These pips were CW bursts about 70 milliseconds long occurring every 3.00 seconds. They were on multiple frequencies all in synchronization and simultaneous transmissions. The frequencies ranged from below 6 MHz to above 12 MHz. The frequency spacing of the signals were clearly defined and changed as the frequency increased, from each 90 kHz at the low end to each 150 kHz at the high end. All frequencies were not found, as the signal terminated while I (and others) was trying to define all the frequencies. All frequencies terminated transmission at the same time (0339z). They were heard all across the USA, from New York to California, and Washington to Florida.

Video of one frequency as received at my location here: <http://www.youtube.com/watch?v=jBtMxRlcyFg>

The known frequencies were:

5670, 6150, 6240, 6330, 6420, 6720, 6820, 6920, 7020, 7130, 7240, 7460, 7570, 7680, 7800, 7920, 8040, 8160, 8280, 8400, 8530, 8660, 9050, 9190, 9900, 10200, 10350, and 10510 kHz. 28 defined frequencies in my log. Reports were received of it operating above 12 MHz, but the signals stopped when I had only found them up to 10510 kHz and unfortunately I did not note in my log the specific frequencies others were reporting. If you note the pattern of the frequency spacing you see that:

6150 to 6420 was spaced each 90 kHz
6720 to 7020 was spaced each 100 kHz
7020 to 7680 was spaced each 110 kHz
7680 to 8400 was spaced each 120 kHz
8400 to 8660 was spaced each 130 kHz
9050 and 9190 was spaced at 140 kHz
10200 to 10350 was spaced at 150 kHz
10350 to 10510 was spaced at 160 kHz

Several frequencies that fell on the correct spacing were occupied by SW BC stations, so it is quite possible they were also used by the Pips, but not able to be received at my location. I have seen these pips in the past, on discrete frequencies, but never realized they were on more than one frequency at a time. I will be watching for them in the future, to see if they always use the same frequencies and what the upper and lower frequency limits might be, as well as if the frequency spacing stays predictable at all times.

T!, Mojave Desert, California, USA"

Brandon comments:

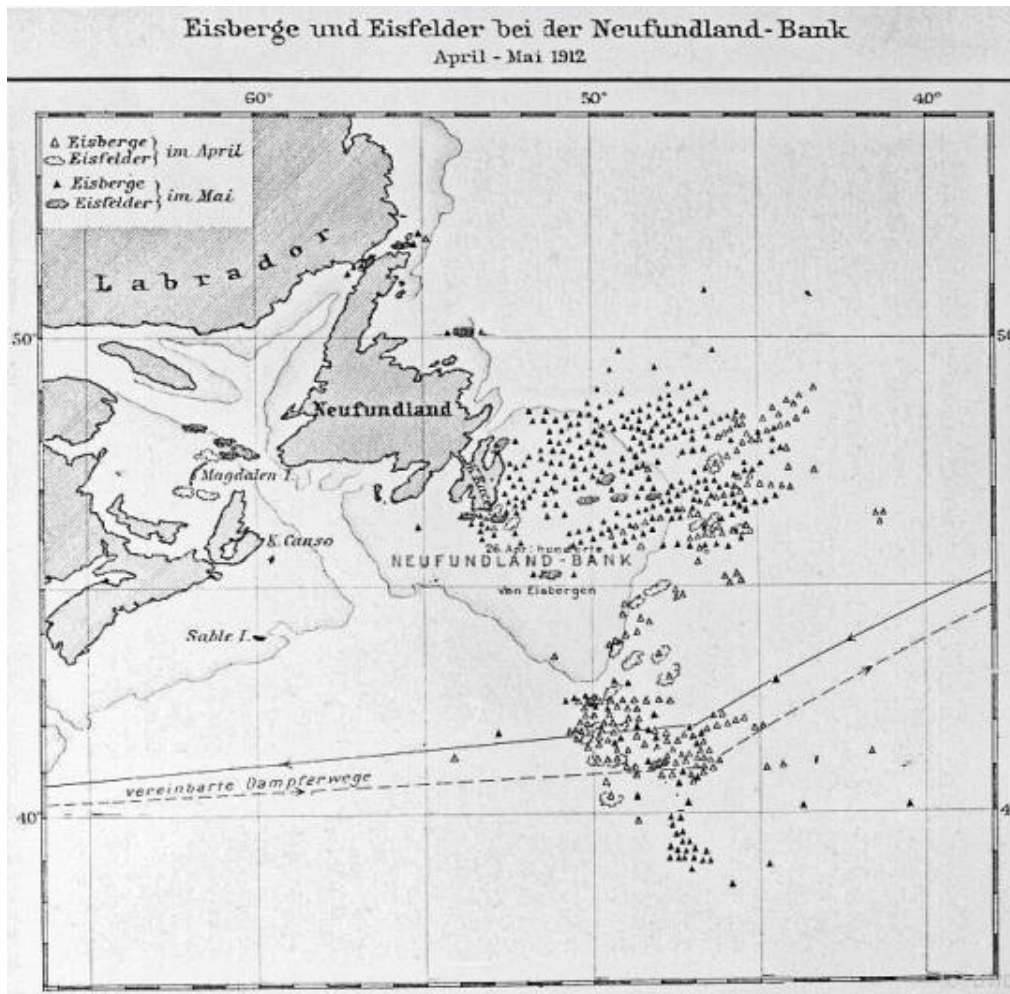
"The pips returned a couple hours later and noted them up to 14150 (very weak) and "double pips" on a couple frequencies (10990 and 12010) that were quite strong. The pips on 10990 were even closer together, but I forgot to record it. Also active on 9050 kHz at 0420z 4/19/2012"

Recording of double pips from 12010 kHz: http://cl.ly/Fvhh/HDSDR_20120418_054426Z_12010kHz_AF.wav

10275.1 kHz, 22-04, 0651 UTC: 420 ms long pip every 21 seconds (logged by PPA)

Note: both recordings are also available from the N&O website.

Titanic events



Deutsche Wetterdienst ice chart April-May 1912

ZCZC FA57

UNCLASSIFIED//

MSGID/GENADMIN/NGA NAVSAFETY WA DC//

RMKS/WRN N ATLC.

POTENTIAL SAFETY CONCERNS IN THE AREA SURROUNDING THE WRECKAGE OF TITANIC.

1. THE 100TH ANNIVERSARY OF THE SINKING OF THE TITANIC MAY RESULT IN SUBSTANTIALLY MORE VESSEL TRAFFIC IN VICINITY OF THE WK SITE ON OR AROUND 14 APR. PASSENGER AND EXPLORATION VESSELS MAY BE KEEPING STA IN CLOSE PROXIMITY TO EACH OTHER POSING A POTENTIAL SAFETY CONCERN.

2. VESSELS ARE ASKED TO REFRAIN, WHERE OPERATIONALLY POSSIBLE, FROM DISCHARGING GARBAGE, BLACKWATER, GRAYWATER AND ANY OTHER INCIDENTAL DISCHARGES TO THE OPERATION OF A VESSEL WITHIN 15 MILES OF AREA BOUND BY 41-55-19N 050-10-00W, 41-55-05N 049-43-11W, 41-32-07N 049-43-38W, 41-32-21N 051-10-17W.

3. VESSELS ARE ASKED TO CONCENTRATE ANY DROP WEIGHTS OR OTHER MATERIALS NECESSARY FOR THE NORMAL DESCENT AND ASCENT OF SUBMERSIBLE CRAFT WITHIN 100 METERS OF THE FOLLOWING POSITIONS: A. 41-44-08N 049-56-46W. B. 41-43-51N 049-56-32W. C. 41-43-58N 049-57-06W. D. 41-43-41N 049-57-01W.

4. VESSELS ARE ASKED TO UTILIZE BIODEGRADABLE MATERIALS FOR DROP WEIGHT BAGS AND OTHER ITEMS THAT MUST BE LEFT ON THE BOTTOM DURING NORMAL SUBMERSIBLE OPERATIONS.

5. VESSELS ARE ALSO ASKED TO REFRAIN FROM INSTALLING, ATTACHING OR PLACING ADDITIONAL PLAQUES, MEMORIALS, OTHER TEMP OR PERMANENT FIXTURES, HOWEVER WELL INTENTIONED, ON THE R.M.S. TITANIC.

6. CANCEL THIS MSG //220018Z APR 12//

NNNN

The following amateur stations were reported. Many more were active though.

DM100MGY

EH3MGY

EI100T

EI1MGY

ET100T

G3KEV

GB100C

GB100GGM

GB100MGY

GB100MUC

GB100MWT

GB1HMGY

GB1WSL

GB2MB

GB2WG

GB4MGY

GB4T

GI100MGY

GI2012MGY

GR100MGY

IQ2MI

K1T

K3MGY

KM1CC

OK2BVG

OM5CD

ON100TT

OR100MGY

OT100MGY

PA100MGY

PC100T

SK100MGY

TM5MGY

VK5MGY

VO1MGY

W0S

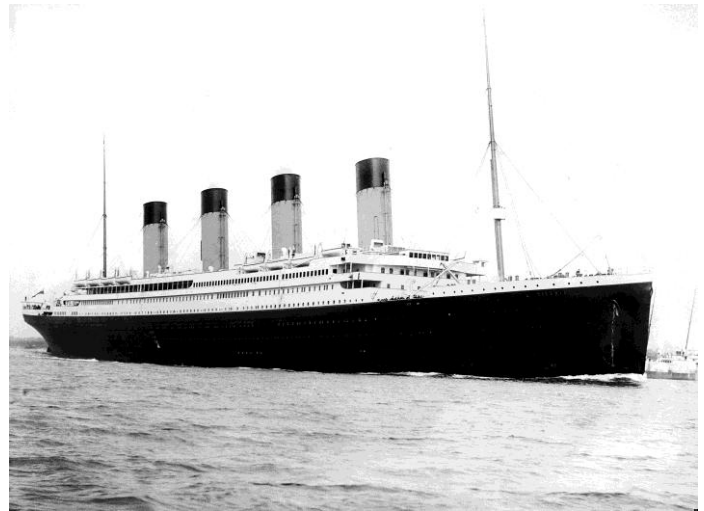
W1MGY

W6MGY

ZW7MGY

On April 14th at 2230 UTC, the Deutsche Wetterdienst interrupted its RTTY transmissions on 147.3 kHz for a commemorative transmission in Morse. The transmission started with this message: "*cq cq de ddh47 d10sw a special broadcast centenary of the loss of rms titanic in april 1912*". After that the station worked with many amateur stations using call sign D10SW. Each half hour -between the 15th and 18th and between the 45th and 48th minute - the names of the radio officers who died in the 1912 disaster were sent.

The Titanic special event amateur station, sending from the Fort Perch Rock marine radio museum, Wirral, UK, was working amateur station in Morse on frequencies between 502 and 503 kHz from 12 - 15 April. Callsign : GB100MG.



Time signal

On 11-04 I heard time signal station OK0EPB for the first time.

Frequency: 7039.4 kHz

Mode: CW

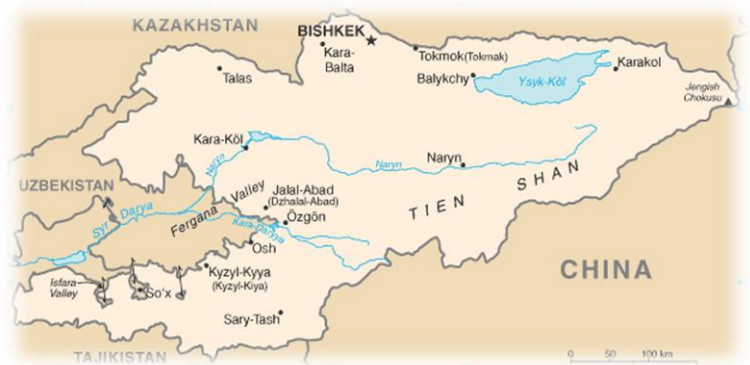
Date/time: 11-04, 0704 UTC

Transcript: OK0EPB -pips- 7.5 -pips- next minute is 05 -pips-

Meaning: OK0EPB (callsign), pips (second markers), Fof2 info, pips, "next minute is XX" (time), pips
Fof2 = The maximum radio wave frequency capable of reflection from the F2 region of the ionosphere.

Website: <http://ok0epb.nagano.cz>

Intelligence profile: Kyrgyzstan



BACKGROUND

A Central Asian country of incredible natural beauty and proud nomadic traditions, most of Kyrgyzstan was formally annexed to Russia in 1876. The Kyrgyz staged a major revolt against the Tsarist Empire in 1916 in which almost one-sixth of the Kyrgyz population was killed. Kyrgyzstan became a Soviet republic in 1936 and achieved independence in 1991 when the USSR dissolved. Nationwide demonstrations in the spring of 2005 resulted in the ouster of President Askar AKAEV, who had run the country since 1990. Subsequent presidential elections in July 2005 were won overwhelmingly by former prime minister Kurmanbek BAKIEV. Over the next few years, the new president manipulated the parliament to accrue new powers for himself. In July 2009, after months of harassment against his opponents and media critics, BAKIEV won re-election in a presidential campaign that the international

community deemed flawed. In April 2010, nationwide protests led to the resignation and expulsion of BAKIEV. His replacement, Roza OTUNBAEVA, served as transitional president until Almazbek ATAMBAEV was inaugurated in December 2011.

GENERAL

Country name: Kyrgyz Respublikasy (Kyrgystan)
Kyrgyz Republic (Kyrgystan)
Former name: Kirghiz Soviet Socialist Republic
Capital: Bishkek
7 Provinces: Batken Oblasty, Chuy Oblasty (Bishkek), Jalal-Abad Oblasty, Naryn Oblasty, Osh Oblasty, Talas Oblasty, Ysyk-Kol Oblasty (Karakol)
1 City: Bishkek Shaary

MILITARY BRANCHES

Ground Forces, Air Force (includes Air Defense Forces), National Guard

INTELLIGENCE & SECURITY AGENCIES

Gosudarstvennyi komitet po natsional'noi bezopasnosti -GSNB-
(State Committee for National Security)
Special Operations Detachment "A"
Ministry of Internal Affairs
Main Intelligence Department
Kyrgyz Security Council

Established in 1991, the *State Committee for National Security* (GNSB) is the main security agency in Kyrgystan. Its Minister of National Security reports directly to the President.

The GNSB directs, coordinates and supervises the activities of subordinate regional, urban and regional bodies of national security, and military intelligence agencies, issue orders, instructions to be executed in the system of national security. The GNSB is responsible for intelligence and counterintelligence activities, countering extremist activity, combat intelligence and subversive activities of special services of foreign states and organizations, terrorism, corruption, smuggling and drug trafficking. Protection of state secrets and the border troops. Operates and provides security of specific types of communication (government, encrypted, secret), as well as encryption and deciphering work, participate in the development and creation of special equipment in order to ensure national security.

The *Special Operations Detachment "A"* was created in 1999 and has responsibilities for anti-terrorist and special operations as well as intelligence collection. Alfa reports to the Minister of National Security.

Ministry of Internal Affairs

The Ministry of Internal Affairs commands the *Interior Troops* and the *Militia* (police). The militia is commanded by the Central Police Force in Bishkek.

Ministry of Defense

The Ministry of Defense has a *Main Intelligence Department* which is responsible for military intelligence collection and counter-intelligence. In 1991 the *National Guard* was established. Organized in two battalions, the National Guard has been commanded since its inception by a Kyrgyz general; the chief of the *Border Troops* also is under that commander. The National Guard has the prescribed function of protecting the president and govern-

ment property and assisting in natural disasters; except under exceptional circumstances, its role does not include maintenance of domestic order.

The **National Security Council** was established in 1994 and is the advisory body under the President on security matters. The NSC is the chief agency of defense policy. Established in 1994, the NSC has eight members: the president, who is the chairman, the prime minister, the deputy prime minister, the state secretary, the minister of internal affairs, the minister of defense, the chairman of the GNSB, and the commander of the National Guard.

SOURCES / RELATED WEBSITES / FURTHER INFORMATION

CIA World Factbook

Brassey's International Intelligence Yearbook 2003

Government of Kyrgystan <http://www.gov.kg/>

President of Kyrgystan <http://www.president.kg/>

GKNB www.gknb.kg

Ministry of Internal Affairs www.mvd.kg

Ministry of Defense www.mil.kg

Intelligence profile: **Moldova**



BACKGROUND

Part of Romania during the interwar period, Moldova was incorporated into the Soviet Union at the close of World War II. Although the country has been independent from the USSR since 1991, Russian forces have remained on Moldovan territory east of the Dniester River supporting the Slavic majority population, mostly Ukrainians and Russians, who have proclaimed it the Republic of "Transnistria." One of the poorest nations in Europe, Moldova became the first former Soviet state to elect a Communist, Vladimir VORONIN, as its president in 2001. VORONIN served as Moldova's president until he resigned in September 2009, following the opposition's gain of a narrow majority in July parliamentary elections and the Communist Party's (PCRM) subsequent inability to attract the three-fifths of parliamentary votes required to elect a president. Moldova's four opposition parties formed a new coalition, the Alliance for European Integration (AEI), which acted as Moldova's governing coalition until December 2010. Moldova has experienced significant political uncertainty since 2009, holding three general elections (in April 2009, July 2009, and November 2010) and four valid presidential ballots in parliament, all of which failed to secure a president. Following the November 2010 parliamentary elections, a reconstituted AEI-coalition consisting of the Liberal Democratic Party, the Liberal Party, and the Democratic Party formed a government, but remains three votes short of the three-fifths majority required to elect a president.

GENERAL

Country name:	Republica Moldova (Moldova) Republic of Moldova (Moldova)
Former name:	Moldovan Soviet Socialist Republic
Capital:	Chisinau in Romanian (Kishinev in Russian)
32 Rayons:	Anenii Noi, Basarabeasca, Briceni, Cahul, Cantemir, Calarasi, Causeni, Cimislia, Criuleni, Donduseni, Drochia, Dubasari, Edinet, Falesti, Floresti, Glodeni, Hincesti, Ialoveni, Leova, Nisporeni, Ocnita, Orhei, Rezina, Riscani, Singerei, Soldanesti, Sorooca, Stefan-Voda, Straseni, Taraclia, Telenesti, Ungheni
3 Municipalities:	Balti, Bender, Chisinau
1 Autonomous territorial unit:	Gagauzia
1 Territorial unit:	Stinga Nistrului (Transnistria)

MILITARY BRANCHES

National Army: Land Forces Command (includes special forces), Air Forces Command (includes air defense unit), Logistics Command

INTELLIGENCE & SECURITY AGENCIES

National Security Council
Serviciul de Informații și Securitate -SIS - (Intelligence and Security Service)
Ministry of the Interior
Ministry of National Security
Supreme Security Council
Special Telecommunication Center

National Security Council

The National Security Council is the structure meant to carry out the general coordination of the national security sector's institutions and activities of the other institutions exercised on different dimensions of the national security as well to adopt the recommendations for decision making on national security. During peace time the National Security Council exercises its attributions of the consultative body. In case of an emergency, siege or war the Council will serve as a body with deliberative functions.

On a basis of the provisions of the article 77 of the Moldovan Constitution, the President of the Republic of Moldova chairs the National Security Council.

The permanent members of the National Security Council are: the President of the Republic of Moldova, the Speaker of the Parliament, the Prime Minister of the Republic of Moldova, the chairmen of the permanent Parliamentary Committees on National Security, Defense and Public Order, as well as for Foreign Policy and European Integration, the Minister of Foreign Affairs and European Integration, the Minister of Defense, the Minister of Interior, the Minister of Reintegration, the Minister of Finance, the SIS Director, the President's advisors on Domestic as well as on Foreign policy, the Secretary of the National Security Council.

Serviciul de Informații și Securitate

The SIS is the principal intelligence agency of Moldova. From 1940 to 1999, the directors were army generals. After that the director is a civilian. SIS HQ is in Chișinău.

Its tasks include information activities; counter-activities; activities aimed at detecting, preventing and countering actions that could be a hazard to national security. The Anti-terror Center of the SIS is the body that is responsible for directing, coordinating and implementing measures to combat terrorism. They also manage a data bank about

terrorists, terrorist organizations, their leaders, persons involved in these organizations, individuals and businesses that supports terrorists.

Ministry of National Security

In addition to the police, Moldova's armed forces consist of border guards under the Ministry of National Security.

Ministry of the Interior

The Internal Troops and Riot Control Troops are under the command of the Ministry of Interior.

Supreme Security Council

The SSC is a presidential advisory council.

Special Telecommunication Center

Established under Law no. 735 of 11.06.2002

Activities:

- achievement of national policy creation, management, operation and protection of special telecommunication systems of Moldova;
 - ensure safe exchange of information between public authorities of Moldova, organizations, institutions, businesses and public authorities of other states;
 - protect important information for the state, creation, administration, information systems telecommunication security state;
 - creation and the operation mechanism of digital signature in Moldova;
 - system integration, creation of protected telecommunications information systems for enterprises and institutions, regardless of forms of ownership;
 - creation of complex information security systems;
 - technical protection of information
-

SOURCES / RELATED WEBSITES / FURTHER INFORMATION

CIA World Factbook

Wikipedia

National Security Concept of the Republic of Moldova

Brassey's International Intelligence Yearbook 2002

SIS: <http://www.sis.md>

SIS: <http://www.antiteror.sis.md>

Special Telecommunication Center <http://www.cts.md>

Government: <http://moldova.md>

Government: <http://www.gov.md>

Ministry of Defense: <http://www.army.gov.md>

Ministry of the Interior: <http://www.mai.md>

Ministry of Foreign Affairs <http://www.mfa.gov.md>

Intelligence profile: **Uzbekistan**



BACKGROUND

Russia conquered the territory of present-day Uzbekistan in the late 19th century. Stiff resistance to the Red Army after the Bolshevik Revolution was eventually suppressed and a socialist republic established in 1924. During the Soviet era, intensive production of "white gold" (cotton) and grain led to overuse of agrochemicals and the depletion of water supplies, which have left the land poisoned and the Aral Sea and certain rivers half dry. Independent since 1991, the country seeks to gradually lessen its dependence on agriculture while developing its mineral and petroleum reserves. Current concerns include terrorism by Islamic militants, economic stagnation, and the curtailment of human rights and democratization.

GENERAL

Official name: Ozbekiston Respublikasi (Republic of Uzbekistan)

Short name: Ozbekiston (Uzbekistan)

Capital: Toshkent (Tashkent)

12 provinces : Andijon Viloyati, Buxoro Viloyati, Farg'ona Viloyati, Jizzax Viloyati, Namangan Viloyati, Navoiy Viloyati, Qashqadaryo Viloyati, Samarqand Viloyati, Sirdaryo Viloyati, Surxondaryo Viloyati, Toshkent Viloyati, Xorazm Viloyati

1 autonomous republic: Qoraqalpog'iston Respublikasi (Karakalpakstan Republic)

1 city: Toshkent Shahri

MILITARY BRANCHES

Army, Air and Air Defense Forces, National Guard

SECURITY & INTELLIGENCE AGENCIES

Former agencies, disbanded in March 1996:

- Intelligence Center
- Special Communications Post
- Departments Two and Six of the Directorate of Intelligence

Current agencies:

- Milliy Havfsizlik Hizmati, Sluzhba Natsional'noĭ Bezopasnosti (National Security Service)
- Military Department of Intelligence
- Military Department of Signals

The National Security Service (NSS), a special police force under the direct command of the president through the Ministry of the Interior, has the responsibility for suppression of dissent and Islamic activity and surveillance of all possible opposition figures and groups, as well as prevention of corruption, organized crime, and narcotics trafficking.

Conventional police operations are the responsibility of the Ministry of Internal Affairs. Each governmental jurisdiction has a police force; the forces of larger jurisdictions are subdivided by function.

The Military Departments of Intelligence and Signals are responsible for SIGINT activities, counter-terrorism, search and intelligence.

Special Forces

- Unit “Scorpion” is a border patrol force between Uzbekistan, Kyrgyzstan and Tajikistan.
 - Unit “Bars” consists of veterans. Most of them have been involved in the Afghanistan and Chechnya conflicts. Bars is a secret unit that is specialized in sabotage, deep enemy line infiltration, and reconnaissance.
-

The National Guard was created in August 1991 as an internal security force under the direct command of the president, to replace the Soviet Internal Troops that had provided internal security until that time. The National Guard forces in Tashkent moved under the jurisdiction of the Ministry of Internal Security in 1994.

The Uzbekistan Border Troop Command was established in March 1992, on the basis of the former Soviet Central Asian Border Troops District. In 1994 the Frontier Guard, as it is also called, came under the control of the Ministry of Internal Security. The force is under the command of a deputy chairman of the National Security Committee. The Frontier Guard works closely with the Russian Border Troops Command under the terms of a 1992 agreement that provides for Russian training of all Uzbekistani border troops and joint control of the Afghan border.

SOURCES / RELATED WEBSITES / LITERATURE

http://www.mongabay.com/reference/new_profiles/287.html

<http://mfa.uz>

<http://cns.miis.edu/npr/pdfs/sodik62.pdf>

<http://www.uza.uz/en/>

http://web.archive.org/web/20071207172150/http://2004.press-service.uz/eng/knigi_knigi_eng/knigi_eng2.htm

<http://www.uzbekistan.org>

<http://www.uzbekembassy.org>

Library of Congress Country Studies

CIA World Factbook

Wikipedia

LOGS SECTION

frequency	enigma	remarks	mode	date	day	UTC	contributor
3297	M89	In tfc - 5 fig cut numbers. Receiver changed to another freq by another user; probably Q7NW	CW	17-4-2012	Tue	1214	(JPL)
3297	M89	In tfc - 5 group cut number - mostly U/R. V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	5-4-2012	Thu	1200	(JPL)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	13-4-2012	Fri	1834	(JPL)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	13-4-2012	Fri	2145	(JPL)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	20-4-2012	Fri	1241	(JPL)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	20-4-2012	Fri	2055	(JPL)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	27-4-2012	Fri	1350	(JPL)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	27-4-2012	Fri	1454	(JPL)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	27-4-2012	Fri	1704	(JPL)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	27-4-2012	Fri	2114	(JPL)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	2-4-2012	Mon	2153	(JPL)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	9-4-2012	Mon	1356	(JPL)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	9-4-2012	Mon	2101	(JPL)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	16-4-2012	Mon	2127	(JPL)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	23-4-2012	Mon	1414	(JPL)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	23-4-2012	Mon	1757	(JPL)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	14-4-2012	Sat	1757	(JPL)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	14-4-2012	Sat	2042	(JPL)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	21-4-2012	Sat	1401	(JPL)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	1-4-2012	Sun	1440	(JPL)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	1-4-2012	Sun	2129	(JPL)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	15-4-2012	Sun	1511	(JPL)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	15-4-2012	Sun	2044	(JPL)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	5-4-2012	Thu	1708	(JPL)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	19-4-2012	Thu	1657	(JPL)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	19-4-2012	Thu	2102	(JPL)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	26-4-2012	Thu	1441	(JPL)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	26-4-2012	Thu	1607	(JPL)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	26-4-2012	Thu	2109	(JPL)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	3-4-2012	Tue	1528	(JPL)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	3-4-2012	Tue	1734	(JPL)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	10-4-2012	Tue	1327	(JPL)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	17-4-2012	Tue	1415	(JPL)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	17-4-2012	Tue	1653	(JPL)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	17-4-2012	Tue	2014	(JPL)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	24-4-2012	Tue	1425	(JPL)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	24-4-2012	Tue	1558	(JPL)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	11-4-2012	Wed	1316	(JPL)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	11-4-2012	Wed	1734	(JPL)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	11-4-2012	Wed	2058	(JPL)
3379	M32	CIS Mil. 4LG tfc ...3972 1069 ... 2598 2423 K. = 2198 K. 9834 K. 2597 K. Simplex	CW	24-4-2012	Tue	1945	(MPJ)
3510	M01b	201-993/32=05176 //4605	CW	12-4-2012	Thu	1832	(HFD)
3520	M01b	582-993/32=05176 //4585	CW	6-4-2012	Fri	2010	(HFD)
3715	M01b	477-993/32=05176 //4570	CW	12-4-2012	Thu	1942	(HFD)
3735	M01c	t69(x3)...	CW	18-4-2012	Wed	2111	(FMB)
3755	S30	Weather report for 8S1Shch. 1 kHz off freq.	USB	22-4-2012	Sun	1851	(Avare)
3756	S30	Pip changes its tone. Possibly a defective modulator	USB	22-4-2012	Sun	0044	(Avare)
3797	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	27-4-2012	Fri	1458	(JPL)
3797	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	23-4-2012	Mon	1753	(JPL)
3797	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	23-4-2012	Mon	2055	(JPL)
3797	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	15-4-2012	Sun	2046	(JPL)

frequency	enigma	remarks	mode	date	day	UTC	contributor
3797	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	24-4-2012	Tue	1152	(JPL)
3797	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	20-4-2012	Fri	1242	(JPL)
3797	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	9-4-2012	Mon	1407	(JPL)
3797	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	9-4-2012	Mon	2103	(JPL)
3797	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	16-4-2012	Mon	2129	(JPL)
3797	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	14-4-2012	Sat	1905	(JPL)
3797	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	14-4-2012	Sat	2045	(JPL)
3797	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	21-4-2012	Sat	1406	(JPL)
3797	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	21-4-2012	Sat	1558	(JPL)
3797	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	1-4-2012	Sun	1444	(JPL)
3797	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	1-4-2012	Sun	2130	(JPL)
3797	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	19-4-2012	Thu	1659	(JPL)
3797	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	19-4-2012	Thu	2104	(JPL)
3797	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	26-4-2012	Thu	1259	(JPL)
3797	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	26-4-2012	Thu	1446	(JPL)
3797	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	26-4-2012	Thu	1610	(JPL)
3797	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	26-4-2012	Thu	2111	(JPL)
3797	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	3-4-2012	Tue	1530	(JPL)
3797	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	3-4-2012	Tue	1735	(JPL)
3797	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	17-4-2012	Tue	1418	(JPL)
3797	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	17-4-2012	Tue	1649	(JPL)
3797	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	17-4-2012	Tue	2015	(JPL)
3797	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	24-4-2012	Tue	1427	(JPL)
3797	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	24-4-2012	Tue	1602	(JPL)
3797	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	11-4-2012	Wed	1738	(JPL)
3797	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	11-4-2012	Wed	2102	(JPL)
4028	V02a	A 58161 (Stn came up late at 0126z and IP)	AM	6-4-2012	Fri	0126	(MS)
4153	XSL	Kaijo Jieitai a.k.a. Slot Machine	QPSK 1500	6-4-2012	Fri	1311	(AB-HK)
4166	M51	ip	CW	18-4-2012	Wed	2122	(FMB)
4166.6	M51	FAV22: French Army Mont-Valerien wrsnp nxuhd zvqty klinwx	CW	16-4-2012	Mon	0750	(WP3)
4166.63	M51	FAV22: French CSTEI Favipres/Vernon 2059 CW NR 35 A 17 22:59:59 1984 BT AUCMP BSGKJ ...	CW	13-4-2012	Fri	2059	(MPJ)
4169	M51	ip	CW	17-4-2012	Tue	2302	(FMB)
4210	---	Unid beacon "E" or pip	CW	10-4-2012	Tue	0100	(Daunt)
4225	M89	(In tfc) V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	23-4-2012	Mon	1801	(JPL)
4225	M89	(In tfc) V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	23-4-2012	Mon	2101	(JPL)
4225	M89	(In tfc) V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	26-4-2012	Thu	1021	(JPL)
4225	M89	(In tfc) V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	26-4-2012	Thu	1128	(JPL)
4225	M89	(In tfc) V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	26-4-2012	Thu	1257	(JPL)
4225	M89	(In tfc) V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	26-4-2012	Thu	1439	(JPL)
4225	M89	(In tfc) V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	26-4-2012	Thu	1605	(JPL)
4225	M89	(In tfc) V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	26-4-2012	Thu	2107	(JPL)
4225	M89	(In tfc) V 7NPE (x3) DE QV5B (x2) //5500	CW	24-4-2012	Tue	1155	(JPL)
4225	M89	(In tfc) V 7NPE (x3) DE QV5B (x2) //5500	CW	24-4-2012	Tue	1431	(JPL)
4225	M89	(In tfc) V 7NPE (x3) DE QV5B (x2) //5500	CW	24-4-2012	Tue	1605	(JPL)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	15-4-2012	Sun	2043	(JPL)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	5-4-2012	Thu	1158	(JPL)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	5-4-2012	Thu	1403	(JPL)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	13-4-2012	Fri	1832	(JPL)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	13-4-2012	Fri	2143	(JPL)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	20-4-2012	Fri	1240	(JPL)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	20-4-2012	Fri	2053	(JPL)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	27-4-2012	Fri	1355	(JPL)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	27-4-2012	Fri	1426	(JPL)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	27-4-2012	Fri	1500	(JPL)

frequency	enigma	remarks	mode	date	day	UTC	contributor
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	27-4-2012	Fri	1726	(JPL)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	27-4-2012	Fri	2118	(JPL)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	9-4-2012	Mon	2059	(JPL)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	16-4-2012	Mon	1056	(JPL)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	16-4-2012	Mon	2125	(JPL)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	23-4-2012	Mon	1412	(JPL)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	23-4-2012	Mon	1604	(JPL)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	14-4-2012	Sat	1755	(JPL)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	14-4-2012	Sat	2040	(JPL)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	21-4-2012	Sat	1359	(JPL)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	21-4-2012	Sat	1555	(JPL)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	1-4-2012	Sun	1438	(JPL)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	1-4-2012	Sun	2127	(JPL)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	15-4-2012	Sun	1039	(JPL)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	15-4-2012	Sun	1509	(JPL)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	5-4-2012	Thu	1706	(JPL)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	5-4-2012	Thu	2256	(JPL)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	19-4-2012	Thu	1655	(JPL)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	19-4-2012	Thu	2100	(JPL)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	3-4-2012	Tue	1526	(JPL)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	3-4-2012	Tue	1733	(JPL)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	3-4-2012	Tue	2321	(JPL)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	10-4-2012	Tue	1325	(JPL)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	10-4-2012	Tue	2239	(JPL)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	17-4-2012	Tue	1212	(JPL)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	17-4-2012	Tue	1413	(JPL)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	17-4-2012	Tue	1648	(JPL)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	17-4-2012	Tue	2012	(JPL)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	4-4-2012	Wed	1308	(JPL)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	11-4-2012	Wed	1315	(JPL)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	11-4-2012	Wed	1732	(JPL)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	11-4-2012	Wed	2057	(JPL)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	25-4-2012	Wed	2232	(JPL)
4225	M89	VVV 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	29-4-2012	Sun	1517	(JPL)
4225	M89	VVV 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	29-4-2012	Sun	1829	(JPL)
4231.5	XSL	Kaijo Jieitai a.k.a. Slot Machine	QPSK 1500	6-4-2012	Fri	1311	(AB-HK)
4454	S21	454 173 37 85922 51556 ... 89218 173 37 000	AM	24-4-2012	Tue	1842	(HS2)
4454	S21	454 173 37 85922 51556 91613 89218 173 37 000	AM	3-4-2012	Tue	1842	(Spec)
4454	S21	454 173 37 85922 51556 36612 11709 81690 42115 14577 97508 USB 28750 57881 etc 173 37 000 //4854 kHz		3-4-2012	Tue	1842	(AB)
4512	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	13-4-2012	Fri	1837	(JPL)
4512	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	20-4-2012	Fri	2057	(JPL)
4512	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	15-4-2012	Sun	1345	(JPL)
4512	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	15-4-2012	Sun	1515	(JPL)
4512	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	15-4-2012	Sun	2046	(JPL)
4512	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	10-4-2012	Tue	1334	(JPL)
4512	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	20-4-2012	Fri	1242	(JPL)
4512	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	2-4-2012	Mon	2154	(JPL)
4512	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	9-4-2012	Mon	1407	(JPL)
4512	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	9-4-2012	Mon	2103	(JPL)
4512	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	16-4-2012	Mon	2129	(JPL)
4512	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	14-4-2012	Sat	1905	(JPL)
4512	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	14-4-2012	Sat	2045	(JPL)
4512	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	21-4-2012	Sat	1406	(JPL)
4512	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	21-4-2012	Sat	1558	(JPL)
4512	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	1-4-2012	Sun	1444	(JPL)

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4512	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	1-4-2012	Sun	2130	(JPL)
4512	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	19-4-2012	Thu	1659	(JPL)
4512	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	19-4-2012	Thu	2104	(JPL)
4512	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	26-4-2012	Thu	1259	(JPL)
4512	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	26-4-2012	Thu	1446	(JPL)
4512	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	26-4-2012	Thu	1610	(JPL)
4512	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	26-4-2012	Thu	2111	(JPL)
4512	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	3-4-2012	Tue	1530	(JPL)
4512	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	3-4-2012	Tue	1735	(JPL)
4512	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	17-4-2012	Tue	1418	(JPL)
4512	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	17-4-2012	Tue	1649	(JPL)
4512	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	17-4-2012	Tue	2015	(JPL)
4512	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	24-4-2012	Tue	1427	(JPL)
4512	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	24-4-2012	Tue	1602	(JPL)
4512	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	11-4-2012	Wed	1738	(JPL)
4512	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	11-4-2012	Wed	2102	(JPL)
4555	M45	555 (R4) 214 214 30 30 = = 03771 25532 67276 01704 78293 70437 63422 12433 etc = = 214 214 30 30 000 //4955 kHz	CW	26-4-2012	Thu	1802	(JPL-HOL)
4555	M45	555 173 37	CW	5-4-2012	Thu	1802	(JPL-SVK)
4555	M45	555 173 37 //4955 kHz	CW	24-4-2012	Tue	1802	(JPL-HOL)
4555	M45	555 264 33 //4955 kHz	CW	3-4-2012	Tue	1802	(JPL-SVK)
4570	M01b	477 993 32	CW	19-4-2012	Thu	1941	(TING)
4570	M01b	477-993/32=05176 //3715	CW	12-4-2012	Thu	1942	(HFD)
4580	VC01	Chinese Robot in progress	LSB	6-4-2012	Fri	1305	(AB-HK)
4580	VC01	Chinese Robot in progress	LSB	12-4-2012	Thu	1201	(AB-HK)
4580	VC01	Chinese Robot in progress	LSB	19-4-2012	Thu	1201	(AB-HK)
4580	VC01	Chinese Robot in progress	LSB	11-4-2012	Wed	1218	(AB-HK)
4580	VC01	Chinese Robot in progress. Not //5393 kHz	LSB	5-4-2012	Thu	1428	(AB-HK)
4580	VC01	Chinese Robot in progress. Not //5393 kHz	LSB	3-4-2012	Tue	2029	(AB-HK)
4585	M01b	582-993/32=05176 //3520	CW	6-4-2012	Fri	2010	(HFD)
4590	M01b	420 weak	CW	9-4-2012	Mon	1810	(HFD)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) (Svc Msg sent 1358z) (/7607	CW	9-4-2012	Mon	1358	(JPL)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //10779	CW	1-4-2012	Sun	2131	(JPL)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	13-4-2012	Fri	1839	(JPL)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	13-4-2012	Fri	2148	(JPL)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	20-4-2012	Fri	1243	(JPL)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	20-4-2012	Fri	2059	(JPL)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	20-4-2012	Fri	2125	(JPL)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	2-4-2012	Mon	2155	(JPL)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	9-4-2012	Mon	1808	(JPL)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	9-4-2012	Mon	2105	(JPL)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	16-4-2012	Mon	2131	(JPL)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	23-4-2012	Mon	1417	(JPL)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	23-4-2012	Mon	1602	(JPL)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	23-4-2012	Mon	1801	(JPL)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	23-4-2012	Mon	2057	(JPL)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	14-4-2012	Sat	1801	(JPL)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	14-4-2012	Sat	1907	(JPL)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	14-4-2012	Sat	2045	(JPL)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	21-4-2012	Sat	1408	(JPL)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	21-4-2012	Sat	1600	(JPL)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	1-4-2012	Sun	1442	(JPL)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	15-4-2012	Sun	1351	(JPL)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	15-4-2012	Sun	1525	(JPL)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	15-4-2012	Sun	2048	(JPL)

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4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	29-4-2012	Sun	1528	(JPL)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	29-4-2012	Sun	1826	(JPL)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	5-4-2012	Thu	1410	(JPL)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	5-4-2012	Thu	1711	(JPL)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	5-4-2012	Thu	2259	(JPL)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	19-4-2012	Thu	1700	(JPL)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	19-4-2012	Thu	2106	(JPL)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	3-4-2012	Tue	1532	(JPL)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	3-4-2012	Tue	1739	(JPL)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	10-4-2012	Tue	1336	(JPL)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	10-4-2012	Tue	2241	(JPL)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	17-4-2012	Tue	1430	(JPL)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	17-4-2012	Tue	1651	(JPL)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	17-4-2012	Tue	1725	(JPL)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	17-4-2012	Tue	2025	(JPL)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	24-4-2012	Tue	1154	(JPL)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	24-4-2012	Tue	1429	(JPL)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	24-4-2012	Tue	1604	(JPL)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	4-4-2012	Wed	1318	(JPL)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	11-4-2012	Wed	1318	(JPL)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	11-4-2012	Wed	1741	(JPL)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	11-4-2012	Wed	2101	(JPL)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	11-4-2012	Wed	2133	(JPL)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	11-4-2012	Wed	2229	(JPL)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	25-4-2012	Wed	2236	(JPL)
4594	M51	in progress	CW	10-4-2012	Tue	0104	(Daunt)
4605	M01b	201-993/32=05176 //3510	CW	12-4-2012	Thu	1832	(HFD)
4620	M32	SHCHRF SHCHRF 74640 PODVON 5186 1464 K	CW	17-4-2012	Tue	2304	(AnEur)
4620	M32	SKHYEU SKHYEU 34197 15485 OTDANKA 7559 3327 K	CW	17-4-2012	Tue	2302	(AnEur)
4625	M32	Russian Mil. On top of the buzzer	USB	9-4-2012	Mon	0107	(Daunt)
4625	S28	MDZhB 00 283 09 458 Maroni 10 32 40 64 Varovik 91 16 99 92 Tarnyj 95 41 78 04 Barnichanye 65 32 80 20	USB	12-4-2012	Thu	1301	(AB-EST)
4625	S28	MDZhB 04 097 GARDINOL 14 64 97 04	USB	19-4-2012	Thu	0927	(AB-EST)
4625	S28	MDZhB 05 633 RASSEV 48 99 62 66 VASSALNYJ 76 17 61 38	USB	9-4-2012	Mon	1335	(JM5/AB-EST)
4625	S28	MDZhB 06 492 BARASH 42 86 01 31	USB	19-4-2012	Thu	0829	(AB-EST)
4625	S28	MDZhB 07 512 NATORChIKA 61 51 10 75	USB	9-4-2012	Mon	1142	(JM5/AB-EST)
4625	S28	MDZhB 21 416 ZATYChKA 74 78 81 18 GASTROL 74 42 85 13 PATRUBEN 24 36 53 69	USB	9-4-2012	Mon	0110	(AB-EST)
4625	S28	MDZhB 23 034 GASHENIE 26 47 82 23	USB	2-4-2012	Mon	1232	(AB/Avare/JM5)
4625	S28	MDZhB 30 280 VATOA 59 67 17 04	USB	9-4-2012	Mon	1142	(JM5/AB-EST)
4625	S28	MDZhB 32 229 KASHIKA 49 25 29 46	USB	2-4-2012	Mon	1149	(AB/Avare/JM5)
4625	S28	MDZhB 37 587 MAKHILIS 72 06 62 09 NAKHILA	USB	2-4-2012	Mon	1453	(AB/Avare/JM5)
4625	S28	MDZhB 38 133 Paruslo 53 43 72 00 Martirolog 90 51 00 25	USB	12-4-2012	Thu	0903	(AB-EST)
4625	S28	MDZhB 38 133 Paruslo 53 43 72 00 Martirolog 90 51 00 25	USB	12-4-2012	Thu	0903	(AB-EST)
4625	S28	MDZhB 39 134 BARANETs 04 52 16 01	USB	23-4-2012	Mon	1005	(AB-EST)
4625	S28	MDZhB 40 439 Zarostok 53 58 28 68	USB	12-4-2012	Thu	1220	(AB-EST)
4625	S28	MDZhB 42 067 Baronet 52 87 08 70	USB	12-4-2012	Thu	1223	(AB-EST)
4625	S28	MDZhB 45 355 Naryvnyj 51 59 56 16 (Girl in the background "operations duty officer")	USB	12-4-2012	Thu	0829	(AB-EST)
4625	S28	MDZhB 45 355 Naryvnyj 51 59 56 16 (Girl in the background says "operations duty officer")	USB	12-4-2012	Thu	0829	(AB-EST)

frequency	enigma	remarks	mode	date	day	UTC	contributor
4625	S28	MDZhB 49 565 KARBAKTOKS 50 49 53 83	USB	19-4-2012	Thu	1044	(AB-EST)
4625	S28	MDZhB 49 860 RASTUN 69 37 76 91	USB	9-4-2012	Mon	1301	(JM5/AB-EST)
4625	S28	MDZhB 51 775 KASTELYaN 72 18 24 22	USB	9-4-2012	Mon	1335	(JM5/AB-EST)
4625	S28	MDZhB 57 119 Varlon? 73 42 64 15 Garlitsin 33 96 30 34 Marfokan 70 73 87 69 Barisfera 04 75 73 01 Kariotserit 35 41 07 25	USB	12-4-2012	Thu	1305	(AB-EST)
4625	S28	MDZhB 57 967 Chary 41 19 69 63	USB	12-4-2012	Thu	0840	(AB-EST)
4625	S28	MDZhB 57 967 Chary 41 19 69 63	USB	12-4-2012	Thu	0840	(AB-EST)
4625	S28	MDZhB 60 840 Vasilisnik 86 57 93 23	USB	11-4-2012	Wed	1252	(AB-EST)
4625	S28	MDZhB 68 331 PASKhA 52 40 44 55	USB	9-4-2012	Mon	1227	(JM5/AB-EST)
4625	S28	MDZhB 69 987 VATOChNIK 98 83 44 10	USB	9-4-2012	Mon	1037	(JM5/AB-EST)
4625	S28	MDZhB 76 020 Parastikh 07 11 64 84	USB	23-4-2012	Mon	0950	(AB-EST)
4625	S28	MDZhB 76 807 Maroni 10 32 40 64 Varovik 91 16 99 92 Tarnyj 95 41 78 04	USB	12-4-2012	Thu	1227	(AB-EST)
4625	S28	MDZhB 78 968 Paskoit 91 31 72 65	USB	11-4-2012	Wed	1144	(AB-EST)
4625	S28	MDZhB 79 567 RASTUN 69 37 76 91	USB	9-4-2012	Mon	1256	(JM5/AB-EST)
4625	S28	MDZhB 81 968 NAFTOKS 21 02 58 93	USB	2-4-2012	Mon	1456	(AB/Avare/JM5)
4625	S28	MDZhB 83 160 KARBITKA 37 99 98 13	USB	19-4-2012	Thu	1022	(AB-EST)
4625	S28	MDZhB 84 428 Tasmaniya 76 19 79 76	USB	11-4-2012	Wed	1130	(AB-EST)
4625	S28	MDZhB 85 461 BASHMACHNIK 36 67 09 22	USB	2-4-2012	Mon	1144	(AB/Avare/JM5)
4625	S28	MDZhB 86 315 NAKHLYNOK 67 69 18 19	USB	2-4-2012	Mon	1335	(AB/Avare/JM5)
4625	S28	MDZhB 92 171 Barvena 74 92 76 94	USB	19-4-2012	Thu	0834	(AB-EST/JM5)
4625	S28	MDZhB 93 676 Laskota 15 12 24 01	USB	11-4-2012	Wed	1137	(AB-EST)
4625	S28	MDZhB 95 013 MALTIDIT 31 34 20 54 SATELLIT 64 63 39 84	USB	9-4-2012	Mon	1202	(JM5/AB-EST)
4625	S28	MDZhB 97 213 NACHERNENIE 72 80 33 08	USB	2-4-2012	Mon	1314	(AB/Avare/JM5)
4625	S28	MDZhB Ergotrat 77 85	USB	13-4-2012	Fri	1400	(AB-EST/JM5)
4625	S28	MDZhB GASTROPTOZ 02 57 01 21	USB	9-4-2012	Mon	1335	(JM5/AB-EST)
4625	S28	MDZhB Kreditor 05 72	USB	10-4-2012	Tue	0358	(AB-EST)
4625	S28	MDZHB Predzor'e10 18	USB	10-4-2012	Tue	0406	(AB-EST)
4625	S28	MDZhB PRELShChENIJE 91 19	USB	9-4-2012	Mon	0359	(AB-EST)
4627	S28	MDZhB 15 242 KARBORATSIYa 29 04 38 17	USB	19-4-2012	Thu	0936	(AB-EST)
4818	M32	Russian Mil. XXX XXX RMHB RMHB 87731 38493 INTERPOL 1310 CW 9239 //6328 kHz		22-4-2012	Sun	2018	(JU)
4854	S21	454 173 37 85922 51556 36612 11709 81690 42115 14577 97508 USB 28750 57881 etc 173 37 000 //4454 kHz		3-4-2012	Tue	1842	(AB)
4860	M89	(in progress) VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	23-4-2012	Mon	1822	(JPL)
4860	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5)	CW	9-4-2012	Mon	2120	(JPL)
4860	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	20-4-2012	Fri	2120	(JPL)
4860	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	29-4-2012	Sun	1519	(JPL)
4860	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	29-4-2012	Sun	1820	(JPL)
4860	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	27-4-2012	Fri	1420	(JPL)
4860	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	27-4-2012	Fri	1520	(JPL)
4860	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	27-4-2012	Fri	1720	(JPL)
4860	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	16-4-2012	Mon	2120	(JPL)
4860	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	23-4-2012	Mon	1419	(JPL)
4860	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	14-4-2012	Sat	1919	(JPL)

frequency	enigma	remarks	mode	date	day	UTC	contributor
4860	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	21-4-2012	Sat	1420	(JPL)
4860	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	15-4-2012	Sun	1520	(JPL)
4860	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	5-4-2012	Thu	1720	(JPL)
4860	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	19-4-2012	Thu	1719	(JPL)
4860	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	19-4-2012	Thu	2119	(JPL)
4860	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	26-4-2012	Thu	1620	(JPL)
4860	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	26-4-2012	Thu	1919	(JPL)
4860	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	26-4-2012	Thu	2119	(JPL)
4860	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	3-4-2012	Tue	1520	(JPL)
4860	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	10-4-2012	Tue	1320	(JPL)
4860	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	17-4-2012	Tue	1720	(JPL)
4860	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	17-4-2012	Tue	2020	(JPL)
4860	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	17-4-2012	Tue	2120	(JPL)
4860	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	24-4-2012	Tue	1420	(JPL)
4860	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	24-4-2012	Tue	1620	(JPL)
4860	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	4-4-2012	Wed	1320	(JPL)
4860	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	11-4-2012	Wed	0320	(JPL)
4860	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840. Started 2 minutes late. Normally starts with VVV, but this time started with NYZ.	CW	17-4-2012	Tue	1422	(JPL)
4860	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6841. NYZ on 6841 vice 6840 - Is this a change in frequency or operator error? Time will tell.	CW	11-4-2012	Wed	2120	(JPL)
4909	E11	248/00	USB	5-4-2012	Thu	0900	(AB)
4909	E11	248/00	USB	5-4-2012	Thu	0900	(HFD)
4909	E11	287/00	USB	14-4-2012	Sat	1445	(HFD)
4909	E11	287/00	USB	14-4-2012	Sat	1445	(HS2)
4923	E06	759 486 31 37534 83947 20409 85008 486 31 00000	AM	1-4-2012	Sun	0230	(Spec)
4955	M45	555 (R4) 214 214 30 30 = = 03771 25532 67276 01704 78293 70437 63422 12433 etc = = 214 214 30 30 000 //4555 kHz	CW	26-4-2012	Thu	1802	(JPL-HOL)
4955	M45	555 173 37 //4555 kHz	CW	24-4-2012	Tue	1802	(JPL-HOL)
4955	M45	555 264 33 //4555 kHz	CW	3-4-2012	Tue	1802	(JPL-SVK)
4995	M22	4XZ in progress	CW	10-4-2012	Tue	0106	(Daunt)
5017	M01	463 122 30 = 45314 28902 35956 ... 54690 = 122 30 000	CW	3-4-2012	Tue	2000	(Spec)
5117	V02a	A 63742 45052 65332	AM	2-4-2012	Mon	0400	(MS)
5117	V02a	A 68072	AM	9-4-2012	Mon	0400	(MS)
5127	M42	Russian Intel. 00000+++++++162)5761	FSK 200/500	26-4-2012	Thu	1920	(linkz)
5133	E06	759 168 34 54160 81095 46275 79350 168 34 00000	AM	28-4-2012	Sat	0130	(Spec)
5133	E06	759 168 34 54160 81095 46275 79350 168 34 00000	AM	29-4-2012	Sun	0130	(Spec)
5133	E06	759 302 41 72032 81918 57150 72295 302 41 00000	AM	14-4-2012	Sat	0130	(Spec)
5133	E06	759 302 41 72032 81918 57150 72295 302 41 00000	AM	15-4-2012	Sun	0130	(Spec)
5133	E06	759 801 34 05360 48126 49622 03130 801 34 00000	AM	21-4-2012	Sat	0130	(Spec)
5133	E06	759 801 34 05360 48126 49622 03130 801 34 00000	AM	22-4-2012	Sun	0130	(Spec)
5133	E06	759 814 32 96453 07522 86163 93608 814 32 00000	AM	7-4-2012	Sat	0130	(Spec)
5133	E06	759 814 32 96453 07522 86163 93608 814 32 00000	AM	8-4-2012	Sun	0130	(Spec)
5186	E06	891 902 15 76546 78675 54345 54678 98076 65456 43452 43564 AM 54789 67567 76545 43423 34213 54567 76754 902 15 00000		5-4-2012	Thu	2030	(Spec)
5186	E06	891 902 15 76546 78675 54345 54678 98076 65456 43452 43564 AM 54789 67567 76545 43423 34213 54567 76754 902 15 00000		19-4-2012	Thu	2030	(Spec)
5197	E06	315 672 15 90345 67845 36987 23467 87654 35642 11234 45789 AM 97656 70123 45089 77634 23148 37557 25464 672 15 00000		6-4-2012	Fri	2130	(Spec)
5197	E06	579 476 15 14325 67895 09876 45678 34562 56743 12365 09876 AM 34576 08796 34215 56743 23465 76543 67895 476 15 00000		20-4-2012	Fri	2130	(Spec)
5230	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	23-4-2012	Mon	1559	(JPL)
5230	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	23-4-2012	Mon	1759	(JPL)
5230	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	23-4-2012	Mon	2059	(JPL)
5230	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	15-4-2012	Sun	1512	(JPL)

frequency	enigma	remarks	mode	date	day	UTC	contributor
5230	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	26-4-2012	Thu	1304	(JPL)
5230	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	26-4-2012	Thu	1443	(JPL)
5230	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	26-4-2012	Thu	1625	(JPL)
5230	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	26-4-2012	Thu	1838	(JPL)
5230	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	17-4-2012	Tue	1416	(JPL)
5230	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	21-4-2012	Sat	1403	(JPL)
5278	M89	In chat. This freq normally used by Q7NW "11 NR 11 KK VVV F1Q5 K" (see further N&O 175)	CW	19-4-2012	Thu	1736	(JPL)
5278	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	15-4-2012	Sun	1041	(JPL)
5278	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	26-4-2012	Thu	1026	(JPL)
5278	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	26-4-2012	Thu	1126	(JPL)
5320	M51	ip	CW	18-4-2012	Wed	1937	(FMB)
5355	M42	Russian Intel.	FSK 200/1000	17-4-2012	Tue	2320	(FMB)
5378	G06	154 154 154 00000	USB	2-4-2012	Mon	1800	(HS2)
5393	VC01	Chinese Robot in progress	LSB	6-4-2012	Fri	1308	(AB-HK)
5393	VC01	Chinese Robot in progress. Not //4580 kHz	USB	5-4-2012	Thu	1428	(AB-HK)
5393	VC01	Chinese Robot in progress. Not //4580 kHz	USB	3-4-2012	Tue	2029	(AB-HK)
5417	V02a	A 43702 58161 (I came in late at 0206z and missed callup)	AM	6-4-2012	Fri	0206	(MS)
5417	V02a	Poorly modulated. IP. Missed callups.	AM	6-4-2012	Fri	0200	(BCA)
5423	M51	ip	CW	20-4-2012	Fri	1947	(FMB)
5423	M51	ip	CW	21-4-2012	Sat	0241	(FMB)
5442	G06	947	AM	27-4-2012	Fri	1930	(HFD)
5442	G06	947 368 15 23456 78965 08976 56473 23451 56743 67809 07865 AM 34563 67895 12356 78960 61156 67543 56758 368 15 00000		13-4-2012	Fri	1930	(Spec)
5442	G06	947 368 15 23456 78965 08976 56473 23451 56743 67809 07865 AM 34563 67895 12356 78960 61156 67543 56758 368 15 00000		27-4-2012	Fri	1930	(Spec)
5448	S30	8S1Shch 61 546 Sobratsvo 35 40 72 56 priyom	USB	9-4-2012	Mon	1334	(Avare)
5448	S30	Weather report for 8S1Shch	USB	24-4-2012	Tue	1328	(Avare)
5448	S30	Weather report for 8S1Shch	USB	25-4-2012	Wed	1355	(Avare)
5455	M51	ip	CW	17-4-2012	Tue	2018	(FMB)
5460	M42	Russian Intel.	FSK 200/1000	16-4-2012	Mon	1750	(linkz)
5463	M14	537 761 15 = 87364 45638 76890 76545 42321 43679 90786 65467 65764 54654 87967 54634 54342 34231 54635 = 761 15 00000	CW	11-4-2012	Wed	1920	(Spec)
5464	M14	537-761/15=87364	CW	25-4-2012	Wed	1920	(HFD)
5470	S06s	931 507 6 56432 78964 56423 12315 79845 67664 507 6 00000	USB	27-4-2012	Fri	0610	(AB)
5470	S06s	934 502 6 33692 25785 52352 92577 30105 51622 502 6 00000	USB	6-4-2012	Fri	0610	(AB-D)
5470	S06s	934 502 6 33692 25785 52352 92577 30105 51622 502 6 00000	USB	13-4-2012	Fri	0610	(AB-D)
5500	M89	(In tfc) V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	26-4-2012	Thu	1021	(JPL)
5500	M89	(In tfc) V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	26-4-2012	Thu	1128	(JPL)
5500	M89	(In tfc) V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	26-4-2012	Thu	1257	(JPL)
5500	M89	(In tfc) V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	26-4-2012	Thu	1439	(JPL)
5500	M89	(In tfc) V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	26-4-2012	Thu	1605	(JPL)
5500	M89	(In tfc) V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	26-4-2012	Thu	2107	(JPL)
5500	M89	(In tfc) V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225 COMM BT 5172/0530/Z15/3893 AR AR AR	CW	23-4-2012	Mon	2101	(JPL)
5500	M89	(In tfc) V 7NPE (x3) DE QV5B (x2) (Cont'd) SVC UG VV UGT COMM BT 5282/0230/Z19/3893 AR VV UGT COMM BT 5282/0230/Z19/3893 AR V 7NPE (x3) DE QV5B (x2) //4225	CW	23-4-2012	Mon	1801	(JPL)
5500	M89	(In tfc) V 7NPE (x3) DE QV5B (x2) //4225	CW	24-4-2012	Tue	1155	(JPL)
5500	M89	(In tfc) V 7NPE (x3) DE QV5B (x2) //4225	CW	24-4-2012	Tue	1431	(JPL)
5500	M89	(In tfc) V 7NPE (x3) DE QV5B (x2) //4225	CW	24-4-2012	Tue	1605	(JPL)
5500	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	2-4-2012	Mon	2151	(JPL)
5500	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	9-4-2012	Mon	1354	(JPL)
5500	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	13-4-2012	Fri	1832	(JPL)
5500	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	13-4-2012	Fri	2143	(JPL)
5500	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	20-4-2012	Fri	1240	(JPL)

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5500	M89 V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	20-4-2012	Fri	2053	(JPL)
5500	M89 V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	27-4-2012	Fri	1355	(JPL)
5500	M89 V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	27-4-2012	Fri	1426	(JPL)
5500	M89 V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	27-4-2012	Fri	1500	(JPL)
5500	M89 V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	27-4-2012	Fri	1726	(JPL)
5500	M89 V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	27-4-2012	Fri	2118	(JPL)
5500	M89 V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	9-4-2012	Mon	2059	(JPL)
5500	M89 V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	16-4-2012	Mon	1056	(JPL)
5500	M89 V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	16-4-2012	Mon	2125	(JPL)
5500	M89 V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	23-4-2012	Mon	1412	(JPL)
5500	M89 V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	23-4-2012	Mon	1604	(JPL)
5500	M89 V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	14-4-2012	Sat	1755	(JPL)
5500	M89 V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	14-4-2012	Sat	2040	(JPL)
5500	M89 V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	21-4-2012	Sat	1359	(JPL)
5500	M89 V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	21-4-2012	Sat	1555	(JPL)
5500	M89 V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	1-4-2012	Sun	1438	(JPL)
5500	M89 V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	1-4-2012	Sun	2127	(JPL)
5500	M89 V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	15-4-2012	Sun	1039	(JPL)
5500	M89 V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	15-4-2012	Sun	1509	(JPL)
5500	M89 V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	5-4-2012	Thu	1706	(JPL)
5500	M89 V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	5-4-2012	Thu	2256	(JPL)
5500	M89 V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	19-4-2012	Thu	1655	(JPL)
5500	M89 V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	19-4-2012	Thu	2100	(JPL)
5500	M89 V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	3-4-2012	Tue	1526	(JPL)
5500	M89 V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	3-4-2012	Tue	1733	(JPL)
5500	M89 V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	3-4-2012	Tue	2321	(JPL)
5500	M89 V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	10-4-2012	Tue	1325	(JPL)
5500	M89 V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	10-4-2012	Tue	2239	(JPL)
5500	M89 V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	17-4-2012	Tue	1212	(JPL)
5500	M89 V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	17-4-2012	Tue	1413	(JPL)
5500	M89 V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	17-4-2012	Tue	1648	(JPL)
5500	M89 V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	17-4-2012	Tue	2012	(JPL)
5500	M89 V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	4-4-2012	Wed	1308	(JPL)
5500	M89 V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	11-4-2012	Wed	1315	(JPL)
5500	M89 V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	11-4-2012	Wed	1732	(JPL)
5500	M89 V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	11-4-2012	Wed	2057	(JPL)
5500	M89 V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	25-4-2012	Wed	2232	(JPL)
5500	M89 VVV 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	29-4-2012	Sun	1517	(JPL)
5500	M89 VVV 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	29-4-2012	Sun	1829	(JPL)
5513	M01b ip	CW	21-4-2012	Sat	1957	(BRX)
5513	M32 Tramission de V4JN, numbers letters and digital mode	CW	9-4-2012	Mon	0022	(Fol)
5514	M32 DE MK1B	CW	19-4-2012	Thu	2045	(Pat)
5514	M32 Russian Mil. "DE MK1B"	CW	19-4-2012	Thu	2045	(Pat)
5514	M32 Russian Mil. AFZE de MK1B R 048? K RK	CW	19-4-2012	Thu	1245	(JU)
5750	M21 =991456??8????? =991457??8?????	CW	21-4-2012	Sat	1456	(Avare)
5760	S06s 374 501 6 07904 23455 79454 53314 73466 49747 501 6 00000	USB	3-4-2012	Tue	0700	(AB)
5760	S06s 374 501 6 07904 23455 79454 53314 73466 49747 501 6 00000	USB	10-4-2012	Tue	0700	(AB)
5760	S06s 374 502 6 24255 42897 98895 96124 11581 28355 502 6 00000	USB	24-4-2012	Tue	0700	(AB)
5762	V02a A 10281 37282 31812	AM	7-4-2012	Sat	0200	(MS)
5770	M32a RWI DE RYF2 QSA4	CW	24-4-2012	Tue	2313	(RS.ru)
5770	M32a vvv RTK2 DE RGJ QSA4	CW	24-4-2012	Tue	2313	(RS.ru)
5773	E07a 147 1 11512 362 61 81275 22672 10647 78682 000 000	AM	18-4-2012	Wed	2040	(Spec)
5773	E07a 147 1 36562 49 44021 45000 95910 27480 000 000	AM	4-4-2012	Wed	2040	(Spec)
5773	E07a 147 1-36562	AM	4-4-2012	Wed	2040	(HFD)
5784	S06 349 0	AM	9-4-2012	Mon	1900	(HFD)
5784	S06 349 0	AM	23-4-2012	Mon	1900	(HFD)

frequency	enigma remarks		mode	date	day	UTC	contributor
5784	S06	349 0	AM	19-4-2012	Thu	1900	(HFD)
5788	M12	463 1	CW	12-4-2012	Thu	1740	(HFD)
5800	M08a	00182 32621 76472	MCW	12-4-2012	Thu	0600	(MS)
5800	M08a	81002 71122 08121	MCW	1-4-2012	Sun	0600	(MS)
5800	M08a	85421 17101 67781	MCW	2-4-2012	Mon	0600	(MS)
5800	V02a	(Came in late. Stn IP)	AM	9-4-2012	Mon	0325	(MS)
5800	V02a	A 76801 (Came in late and missed first and third callup)	AM	2-4-2012	Mon	0300	(MS)
5801	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	10-4-2012	Tue	1331	(JPL)
5810	M01b	ip	CW	6-4-2012	Fri	1518	(HFD)
5815	G11	270/00	USB	1-4-2012	Sun	1755	(AB)
5815	G11	277/33 Achtung	USB	10-4-2012	Tue	1755	(Spec)
5815	G11	277/33=##238	USB	10-4-2012	Tue	1755	(HFD)
5815	G11	299/00	USB	7-4-2012	Sat	1325	(HFD)
5815	G11	299/00	USB	20-4-2012	Fri	1325	(tING)
5815	G11	299/32 A 27747 34464 68584	USB	14-4-2012	Sat	1325	(HS2)
5815	S11a	221/00	USB	25-4-2012	Wed	1020	(AB)
5829	M12	890 1	CW	12-4-2012	Thu	0340	(HFD)
5829	M12	890 1 819 175 99919 13522 55731 ... 66086 000 000	CW	26-4-2012	Thu	0340	(CG)
5879	E06	759 486 31 37534 83947 20409 85008 486 31 00000	AM	31-3-2012		0130	(Spec)
5883	V02a	22671 06631 48862 LG 53861	AM	9-4-2012	Mon	0700	(Dan)
5883	V02a	25721 76212 86582 IP.	AM	8-4-2012	Sun	0700	(BCA)
5884	E07	358 1	AM	12-4-2012	Thu	2050	(HFD)
5890	S06	286 0	AM	10-4-2012	Tue	1800	(HFD)
5893	M12	785 0	CW	4-4-2012	Wed	2120	(HFD)
5893	M12	785 000	CW	18-4-2012	Wed	2120	(CG)
5893	M12	785 000 (third should be if ever active 4593)	CW	25-4-2012	Wed	2120	(CG)
5898	M08a	00182 32621 76472	MCW	12-4-2012	Thu	0500	(MS)
5898	M51	ip	CW	7-4-2012	Sat	1855	(FMB)
5913	M42	Russian Intel.	FSK 200/1000	2-4-2012	Mon	1650	(FMB)
5913	M42	Russian Intel.	FSK 200/1000	8-4-2012	Sun	1650	(FMB)
5913	M42	Russian Intel.	FSK 200/1000	4-4-2012	Wed	1650	(FMB)
5913	M42	Russian Intel.	FSK 200/1000	20-4-2012	Fri	1650	(linkz)
6140	E25	360 360 360 360 360 360 360 360 360 360 360 360 360 360 360 message message message 2680 0410 6239 2421 5757 8729 0410 1005 rebeat rebeat rebeat 2680 0410	AM	7-4-2012	Sat	0757	(AIK)
6140	E25	Cairo Radio? Brief music followed by brief interview in Arabic. Transmission truncated. E25 style.	AM	12-4-2012	Thu	0730	(AIK)
6140	E25	Music "Ahwak"	AM	1-4-2012	Sun	0830	(AIK)
6140	E25	Music "Ahwak"	AM	1-4-2012	Sun	0823	(AIK)
6140	E25	Music. Full version of "Arouh le-min"	AM	10-4-2012	Tue	1007	(AIK)
6140	E25	Music. Partial "Arouh le-min". Music repeated 3x	AM	10-4-2012	Tue	0940	(AIK)
6140	E25	Ringing noise; music	USB	17-4-2012	Tue	0745	(AIK)
6140	E25	Some sort of marshalling music. Fades out and another Arabic song is audible during ca 10 secs. Then the songs "Umm Khultom" and Yahcha Bibi?" follow.	AM	10-4-2012	Tue	1142	(AIK)
6140	E25	Start-up noises. AM or suppressed LSB. The music sounds as if it is a reroute from some BC station.	AM	7-4-2012	Sat	0722	(AIK)
6140	E25	Tone...672...MSG...	AM	4-4-2012	Wed	1025	(FG)
6140	E25	Xmtr on - Usual xmtr sounds,brief music, xmtr off	USB	10-4-2012	Tue	0732	(AIK)
6140	E25	Xmtr on. Music "Ahwak" begins. Tone. Music	AM	25-4-2012	Wed	0827	(AIK)
6140	E25	YL [message message message rebeat rebeat rebeat. 34 sec pause, tone, 36 sec pause, tone, 5 sec pause, tone, 39 sec pause, tone, dead carrier followed by several clicks. etc.	AM	9-4-2012	Mon	1048	(AIK)
6140	E25	YL. 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 message message message 6221 1034 5320 8883 2956 4316 9611 4382 9184 8670 2801 4471 rebeat rebeat rebeat 6221 1034 5320 8883 2956 4316 9611 4382 9184 8670 2801 4471 EOM (pause) EOT	USB	18-4-2012	Wed	0757	(AIK)

frequency	enigma	remarks	mode	date	day	UTC	contributor
6140	E25	YL. 128 128 128 128 128 (stutter) 8 128 128 128 128 128 128 me(word "message" truncated) 128 message message message 9367 6001 3520 9231 3603 2192 0592 9338 5616 3520	AM	7-4-2012	Sat	1043	(AIK)
6140	E25	YL. 128 128 128 128 128 128 128 128 128 128 128 128 128 128 message message message 9367 6001 3520 9231 3603 2192 0592 9338 5616 3520 rebeat rebeat rebeat 9367	AM	8-4-2012	Sun	1044	(AIK)
6140	E25	YL. 133 133 133 133 133 133 133 133 133 133 133 133 133 133 message message message 0662 8917 1688 etc.	AM	16-4-2012	Mon	0927	(AIK)
6140	E25	YL. 135 10 135 10 135 10 135 10 135 10 135 10 135 10 135 10 135 10 135 10 135 10 135 10 135 10 135 10 135 10 135 10 135 10 135 10 135 10 MESSAGE MESSAGE MESSAGE	AM	3-3-2012		0929	(AIK)
6140	E25	YL. 135 10 135 10 135 10 135 10 135 10 135 10 135 10 135 10 135 10 135 10 135 10 135 10 135 10 135 10 135 10 135 10 135 10 135 10 135 10 MESSAGE MESSAGE MESSAGE	AM	3-4-2012	Tue	0927	(AIK)
6140	E25	YL. 169 169 169 169 169 169 169 169 169 169 169 169 169 169 message message message 1745 9260 8349 6087 6175 5395 7542 5601 3372 8226 9075 5510 rebeat rebeat rebeat 1745	AM	8-4-2012	Sun	0850	(AIK)
6140	E25	YL. 185 185 185 185 185 185 185 185 185 185 185 185 185 185 message message message 5590 8870 3289 4080 9207 5256 7645 7211 7363 4871 rebeat rebeat rebeat 5590 8870 3289 4080 9207 5256 7645 7211 7363 4871 EOM EOT	AM	10-4-2012	Tue	0812	(AIK)
6140	E25	YL. 2 EOM 155 1 33 4 11935 173 31 8638 3985 81321 3 16 (pause) 1383 133 (pause, tone) 133 133 133 133 133 133 133 133 133 133 133 133 133 133 133 message message message 0662 8917 1688 2926 3957 9640 2042 5159 1175 7614 3594 rebeat rebeat rebeat 0662 8917 1688 2926 3957 9640 2042 5159 1175 7614 3594 EOM	USB	17-4-2012	Tue	0928	(AIK)
6140	E25	YL. 333 333 333 333 333 333 333 333 333 333 333 333 333 333 333 message message message 3180 8020 1747 01 (xmtr off, then on) 8 1485 4813 2538 8020 rebeat rebeat	AM	7-4-2012	Sat	0927	(AIK)
6140	E25	YL. 333 333 333 333 333 333 333 333 333 333 message message message 3180 8020 1747 0178 1485 481...(rest not copied due to a power outage)	AM	8-4-2012	Sun	0937	(AIK)
6140	E25	YL. 333 333 333... message message message 3180 801 1 2 0 1471 0178 1485 4813 2538 8020 rebeat rebeat rebeat 3180 8020 1747 0178 14854813 2538 8020 EOM EOT 333 333 333 333	AM	7-4-2012	Sat	0957	(AIK)
6140	E25	YL. 333 333 333... message message message 3180 8020 1747 0178 1485 4813 2538 8020 rebeat rebeat rebeat 3180 8020 1747 01718 1485 4813 2538 8020 EOM EOT 333 333 333	AM	7-4-2012	Sat	0943	(AIK)
6140	E25	YL. 360 017 95 360 017 95 360 017 95 360 017 95 360 017 01 01 01 01 etc. (see N&O 175)	AM	3-4-2012	Tue	0757	(AIK)
6140	E25	YL. 364 14 364 14 364 14 364 14 364 14 364 14 364 14 364 14 364 14 364 14 364 14 364 14 364 14 364 14 message message message rebeat rebeat rebeat EOM EOT	AM	8-4-2012	Sun	0801	(AIK)
6140	E25	YL. 570 570 570 570 570 570 570 570 570 570 570 570 570 570 message message message 8632 4076 1018 7342 3492 1345 6498 7170 4138 4122 3951 rebeat etc.	AM	9-4-2012	Mon	0958	(AIK)
6140	E25	YL. 672 672 672 672 672 672 672 672 672 672 672 672 672 672 etc. (see N&O 175)	AM	3-4-2012	Tue	1027	(AIK)
6140	E25	YL. 701 701 701 701 701 701 701 701 701 701 701 701 701 701 message message message 2711 5640 5201 5576 9726 9027 1660 2007 9220 5640 rebeat etc	AM	9-4-2012	Mon	0829	(AIK)
6140	E25	YL. 702 25 702 25 702 25 702 25 702 25 702 25 702 25 702 25 702 25 702 25 702 25 702 25 702 25 702 25 702 25 message message message rebeat rebeat rebeat EOM EOT	AM	10-4-2012	Tue	0826	(AIK)
6140	E25	YL. 702 25 702 25 702 25 702 25 702 25 702 25 702 25 702 25 702 25 702 25 702 25 702 25 702 25 702 25 702 25 message message message rebeat rebeat rebeat EOM EOT	AM	10-4-2012	Tue	0832	(AIK)
6140	E25	YL. 880 880 880 880 880 880 880 880 880 880 880 880 (see N&O 175)	AM	2-4-2012	Mon	1111	(AIK)
6140	E25	YL. 887 14 887 14 887 14 887 14 887 14 887 14 887 14 887 etc. (see N&O 175)	AM	3-4-2012	Tue	1112	(AIK)

frequency	enigma	remarks	mode	date	day	UTC	contributor
6140	E25	YL. 955 6 955 6 955 6 955 6 955 6 955 6 955 6 955 6 955 6 955 6 955 6 etc.	AM	16-4-2012	Mon	0913	(AIK)
6140	E25	YL. Auto recording failed. Caught live from this point on. "rebeat repeat repeat 5590 8870 3289 4080 9207 5256 7645 7211 7363 4871 EOM EOT"	AM	9-4-2012	Mon	0824	(AIK)
6140	E25	YL. 012 012 012 012 012 012 012 012 012 012 012 012 012 012 012 012 012 (see N&O 175)	AM	2-4-2012	Mon	0758	(AIK)
6215	V24	in progress. New female voice	AM	2-4-2012	Mon	1504	(Token)
6250	XSL	Kaijo Jieitai a.k.a. Slot Machine	QPSK 1500	6-4-2012	Fri	1311	(AB-HK)
6304	E11a	417/38 Attention	USB	9-4-2012	Mon	0450	(Spec)
6310	V24	Song followed by coded message. New female vvoice	AM	3-4-2012	Tue	1330	(Token)
6328	M32	Russian Mil. XXX XXX RMHB RMHB 87731 38493 INTERPOL 1310 CW 9239 //4818 kHz		22-4-2012	Sun	2018	(JU)
6340	S06s	931 507 6 56432 78964 56423 12315 79845 67664 507 6 00000	USB	27-4-2012	Fri	0600	(AB)
6340	S06s	934 502 6 33692 25785 52352 92577 30105 51622 502 6 00000	USB	6-4-2012	Fri	0600	(AB-D)
6340	S06s	934 502 6 33692 25785 52352 92577 30105 51622 502 6 00000	USB	13-4-2012	Fri	0600	(AB-D)
6363	M32	XXX XXX MBP7 MBP7 94463 ALARMIT 8111 2507 K. XXX XXX MBP7 MBP7 25781 DOCKSN 7072 5195. XXX XXX MBP7 MBP7 26781 DOCKAS 7072 5195 K. 2BYP 2BYP 83822 LLXDRADO 5617 5176 K	CW	11-4-2012	Wed	2000	(JPL)
6410	S06s	893 512 6 64435 42795 58512 88101 01353 04528 512 6 00000	USB	3-4-2012	Tue	1000	(AB)
6410	S06s	893 527 6 15450 72110 85565 52805 28824 45083 527 6 00000	USB	17-4-2012	Tue	1000	(AB)
6414	S06s	481 927 5 45453 23831 05746 58393 42400 927 5 00000	USB	11-4-2012	Wed	1210	(AB)
6415	S06s	481	AM	12-4-2012	Thu	1210	(HFD)
6415	S06s	481 963 5 74830 44618 37281 55191 12130 963 5 00000	USB	25-4-2012	Wed	1210	(AB-SVK)
6417	XSL	Kaijo Jieitai a.k.a. Slot Machine	QPSK 1500	6-4-2012	Fri	1311	(AB-HK)
6433	G11	262/00	USB	1-4-2012	Sun	2000	(AB)
6433	G11	264/35 Achtung	USB	27-4-2012	Fri	2000	(Spec)
6433	G11	264/35 Achtung	USB	29-4-2012	Sun	2000	(Spec)
6445	XSL	Kaijo Jieitai a.k.a. Slot Machine	QPSK 1500	6-4-2012	Fri	1311	(AB-HK)
6464	S06s	537 214 6 29058 30922 21455 72495 92582 33205 214 6 00000	USB	17-4-2012	Tue	1500	(AB-GRC)
6606.5	M22	4XZ Israeli Navy Haifa. V marker TX w/occasional 5LG coded messages.	CW	24-4-2012	Tue	0200	(NK2)
6685	M32c	76538 RA-76538 II-76 call to Korsar: "Dep PSKOV at 10:10msk, ETA CHERNYAHOVSK (Kaliningrad region)	USB	6-4-2012	Fri	1240	(ASch)
6685	M32c	76577 RA-76577 II-76 r-check with Korsar	USB	6-4-2012	Fri	0625	(ASch)
6685	M32c	78803 RA-78803 II-76 Proselok "ETA Tolmachevo (Ekaterinburg)	USB	6-4-2012	Fri	0912	(ASch)
6685	M32c	78834 RA-78834 II-76 call to Korsar , Davlenie	USB	6-4-2012	Fri	0626	(ASch)
6685	XM	in progress	USB	21-4-2012	Sat	1118	(Avare)
6768	V02a	10281 37252 31812 Second CU questionable. CIP. IP.	AM	7-4-2012	Sat	0100	(BCA)
6768	V02a	A (Came in late and missed all callups)	AM	2-4-2012	Mon	0400	(MS)
6768	V02a	A 10281 37282 31812	AM	7-4-2012	Sat	0100	(MS)
6768	V02a	A 18771 18272 33632	AM	14-4-2012	Sat	0100	(MS)
6768	V02a	A 22082 87622 17102	AM	9-4-2012	Mon	0400	(MS)
6774	G06	215 215 215 000000	AM	2-4-2012	Mon	0800	(AB)
6785	M08a	16151 16071 88761	CW	5-4-2012	Thu	1900	(MS)
6785	M08a	46381 63861 45651 (Stn came us late at 1903z)	CW	17-4-2012	Tue	1903	(MS)
6785	M08a	58052 31262 35642	CW	9-4-2012	Mon	1900	(MS)
6785	M08a	60021 (Stn too weak for good copy)	CW	6-4-2012	Fri	1900	(MS)
6785	M08a	61372 81032 64722	CW	19-4-2012	Thu	1900	(MS)
6785	M08a	82411 25862 34561	CW	10-4-2012	Tue	1900	(MS)
6785	M08a	Russian Intel..... (Signal too weak and QRN too heavy for copy)	CW	4-4-2012	Wed	1900	(MS)
6785	V02a	A (Xmsn garbled too badly for copy)	AM	3-4-2012	Tue	1900	(MS)
6791	M42	Russian Intel.	FSK 200/1000	8-4-2012	Sun	1720	(FMB)
6791	M42	Russian Intel.	FSK 200/1000	4-4-2012	Wed	1720	(FMB)
6791	M42	Russian Intel.	FSK 200/1000	16-4-2012	Mon	1720	(linkz)
6791	M42	Russian Intel.	FSK 200/1000	22-4-2012	Sun	1720	(linkz)

frequency	enigma	remarks	mode	date	day	UTC	contributor
6793	M12	785 0	CW	4-4-2012	Wed	2100	(HFD)
6793	M12	785 000	CW	18-4-2012	Wed	2100	(CG)
6793	M12	785 000 (third should be if ever active 4593)	CW	25-4-2012	Wed	2100	(CG)
6802	M12	463 1	CW	12-4-2012	Thu	1720	(HFD)
6814	E11	438/00	USB	16-4-2012	Mon	0820	(AB)
6814	E11	438/00	USB	5-4-2012	Thu	0800	(AB)
6825	M51	FAV22: French Army Mont-Valerien vitesse 420 cod bt gdhet shquz shqja kslqo	CW	16-4-2012	Mon	0852	(WP3)
6825	M51	ip	CW	21-4-2012	Sat	1650	(FMB)
6840	M89	(In progress) VVV (x3) Q2M DE NYZ (x2) QSA ? K //10640	CW	26-4-2012	Thu	1023	(JPL)
6840	M89	(In progress) VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	23-4-2012	Mon	1822	(JPL)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5)	CW	3-4-2012	Tue	1720	(JPL)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //10640	CW	20-4-2012	Fri	0220	(JPL)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //4860	CW	20-4-2012	Fri	2120	(JPL)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //4860	CW	29-4-2012	Sun	1519	(JPL)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //4860	CW	29-4-2012	Sun	1820	(JPL)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //10640	CW	27-4-2012	Fri	0020	(JPL)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //10640	CW	14-4-2012	Sat	0220	(JPL)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //10640	CW	15-4-2012	Sun	1120	(JPL)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //10640	CW	5-4-2012	Thu	0020	(JPL)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //10640	CW	5-4-2012	Thu	1220	(JPL)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //10640	CW	26-4-2012	Thu	0220	(JPL)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //10640	CW	26-4-2012	Thu	1120	(JPL)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //10640	CW	17-4-2012	Tue	0120	(JPL)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //10640	CW	24-4-2012	Tue	1220	(JPL)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //4860	CW	27-4-2012	Fri	1420	(JPL)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //4860	CW	27-4-2012	Fri	1520	(JPL)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //4860	CW	27-4-2012	Fri	1720	(JPL)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //4860	CW	16-4-2012	Mon	2120	(JPL)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //4860	CW	23-4-2012	Mon	1419	(JPL)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //4860	CW	14-4-2012	Sat	1919	(JPL)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //4860	CW	21-4-2012	Sat	1420	(JPL)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //4860	CW	15-4-2012	Sun	1520	(JPL)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //4860	CW	5-4-2012	Thu	1720	(JPL)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //4860	CW	19-4-2012	Thu	1719	(JPL)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //4860	CW	19-4-2012	Thu	2119	(JPL)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //4860	CW	26-4-2012	Thu	1620	(JPL)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //4860	CW	26-4-2012	Thu	1919	(JPL)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //4860	CW	26-4-2012	Thu	2119	(JPL)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //4860	CW	3-4-2012	Tue	1520	(JPL)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //4860	CW	10-4-2012	Tue	1320	(JPL)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //4860	CW	17-4-2012	Tue	1422	(JPL)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //4860	CW	17-4-2012	Tue	1720	(JPL)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //4860	CW	17-4-2012	Tue	2020	(JPL)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //4860	CW	17-4-2012	Tue	2120	(JPL)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //4860	CW	24-4-2012	Tue	1420	(JPL)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //4860	CW	24-4-2012	Tue	1620	(JPL)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //4860	CW	4-4-2012	Wed	1320	(JPL)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //4860	CW	11-4-2012	Wed	0320	(JPL)
6841	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //4860	CW	11-4-2012	Wed	2120	(JPL)
6854	M08a	02221 77721 24851	CW	12-4-2012	Thu	2200	(MS)
6854	M08a	18112 00451 08011	CW	19-4-2012	Thu	2200	(MS)
6854	M08a	27331 00441 21821	CW	11-4-2012	Wed	2200	(MS)
6854	M08a	36422 37842 37481	CW	5-4-2012	Thu	2200	(MS)
6854	M08a	50732 10602 18241	CW	4-4-2012	Wed	2200	(MS)
6855	V02a	(Came in late. Stn IP)	AM	9-4-2012	Mon	0326	(MS)

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6855	V02a	A 63742 45052 65332	AM	2-4-2012	Mon	0300	(MS)
6904	M12	257 1	CW	16-4-2012	Mon	1840	(HFD)
6904	M12	257 1	CW	5-4-2012	Thu	1740	(HFD)
6904	M12	257 1	CW	5-4-2012	Thu	1940	(HFD)
6904	M12	257 1 1920 64 72823 20492 97033 ... 23486 000 000	CW	26-4-2012	Thu	1940	(CG)
6904	M12	257 1 2210 53 20292 76409 76617 ... 25454 000 000	CW	30-4-2012	Mon	1840	(CG)
6904	M12	257 1 2599 36 5?061 82862 46884 ... 27107 000 000 (strong qrm)	CW	19-4-2012	Thu	1740	(CG)
6904	M12	257 1 2871 45 88269 14650 84526 ... 33145 000 000	CW	23-4-2012	Mon	1840	(CG)
6904	M12	257 1 4806 63 93597 72126 51308 ... 43854 000 000	CW	23-4-2012	Mon	1940	(CG)
6904	M12	257 1 5621 47 77414 97721 95048 ... 26359 000 000	CW	19-4-2012	Thu	1940	(CG)
6904	M12	257 1 6327 70 92853 90156 96539 ... 19402 000 000	CW	16-4-2012	Mon	1840	(CG)
6904	M12	257 1 6924 86 38997 33192 44179 ... 34005 000 000 (599+20)	CW	16-4-2012	Mon	1940	(CG)
6904	M12	257 1 8134 41 72643 ?3856 79596 ... 04245 000 000	CW	26-4-2012	Thu	1740	(CG)
6904	M12	257 1 9083 78 22726 53856 68255 ... 82786 000 000	CW	23-4-2012	Mon	1740	(CG)
6904	M12	257 1 9367 74 43597 47217 51888 ... 33795 000 000	CW	30-4-2012	Mon	1740	(CG)
6904	M12	257 1 9392 74 34762 51840 13302 ... 75564 000 000	CW	16-4-2012	Mon	1740	(CG)
6918	E06	168 34 ...	AM	27-4-2012	Fri	0130	(Daunt)
6918	E06	168 34 ...	AM	26-4-2012	Thu	0130	(Daunt)
6918	E06	302 41 ...	AM	14-4-2012	Sat	0130	(Daunt)
6918	E06	759 168 34 54160 81095 46275 79350 168 34 00000	AM	28-4-2012	Sat	0030	(Spec)
6918	E06	759 168 34 54160 81095 46275 79350 168 34 00000	AM	29-4-2012	Sun	0030	(Spec)
6918	E06	759 302 41 72032 81918 57150 72295 302 41 00000	AM	14-4-2012	Sat	0030	(Spec)
6918	E06	759 302 41 72032 81918 57150 72295 302 41 00000	AM	15-4-2012	Sun	0030	(Spec)
6918	E06	759 801 34 05360 48126 49622 03130 801 34 00000	AM	21-4-2012	Sat	0030	(Spec)
6918	E06	759 801 34 05360 48126 49622 03130 801 34 00000	AM	22-4-2012	Sun	0030	(Spec)
6918	E06	759 814 32 96453 07522 86163 93608 814 32 00000	AM	7-4-2012	Sat	0030	(Spec)
6918	E06	759 814 32 96453 07522 86163 93608 814 32 00000	AM	8-4-2012	Sun	0030	(Spec)
6918	M32	CIS Military. Enciphered Morse sked ... CXPE –CZLQQPZNT Z RVCNGK... ...	CW	13-4-2012	Fri	2033	(MPJ)
6918	M51	in progress	CW	7-4-2012	Sat	0034	(Daunt)
6919	M51	ip	CW	17-4-2012	Tue	2031	(FMB)
6929	M12	890 1	CW	12-4-2012	Thu	0400	(HFD)
6929	M12	890 1 819 175 99919 13522 55731 ... 66086 000 000	CW	26-4-2012	Thu	0400	(CG)
6930	S06s	374 501 6 07904 23455 79454 53314 73466 49747 501 6 00000	USB	3-4-2012	Tue	0715	(AB)
6930	S06s	374 501 6 07904 23455 79454 53314 73466 49747 501 6 00000	USB	10-4-2012	Tue	0715	(AB)
6930	S06s	374 502 6 24255 42897 98895 96124 11581 28355 502 6 00000	USB	24-4-2012	Tue	0715	(AB)
6930	S6930	Karabin-47, ya Kvadrat-41. Kak slyshite menia? Priyom.	USB	23-3-2012		0811	(ScSw)
6930	S6930	Katok-65 43335 Etka 29 89 16 04 priyom	USB	20-3-2012		0822	(ScSw)
6930	S6930	Katok-65 62939 Disk 51 41 27 72 priyom	USB	25-3-2012		0456	(ScSw)
6930	S6930	Krug-45, ya Kvadrat-41. Kak slyshite menia? Priyom	USB	23-3-2012		0811	(ScSw)
6930	S6930	Kvadrat-41 55981 Affekt 47 65 43 34 priyom	USB	20-3-2012		1435	(ScSw)
6930	S6930	Marka-31 34 208 Remont 31 04 34 99	USB	23-3-2012		1701	(ScSw)
6930	S6930	Roza-15 82920 Nora 6480 1938 Priyom	USB	20-3-2012		1427	(ScSw)
6930	S6930	Sandal-27 82920 Nora 6480 1938 Priyom	USB	20-3-2012		1427	(ScSw)
6930	S6930	Teugol'nik-43 97611 Gallereya 13 94 12 94 priyom	USB	20-3-2012		1440	(ScSw)
6930	S6930	Tora-80 51404 Leto 72 74 88 81 priyom	USB	24-3-2012		1931	(ScSw)
6930	S6930	Tora-80 73476 Shveya 8946 9301 Priyom	USB	20-3-2012		1447	(ScSw)
6930	S6930	Trapetsiya-46, ya Kvadrat-41. Kak slyshite menia? Priyom..	USB	23-3-2012		0811	(ScSw)
6930	S6930	Treugolnik-43, ya Kvadrat-41. Kak slyshite menia? Priyom.	USB	23-3-2012		0806	(ScSw)
6930	S6930	Various messages and calls between 0710 and 0730 UTC	USB	10-4-2012	Tue	0710	(AB)
6932	M08a	02221 77721 24851	CW	12-4-2012	Thu	2100	(MS)
6932	M08a	30842 14171 14432	CW	18-4-2012	Wed	2100	(MS)
6932	M08a	50732 10602 18241	CW	4-4-2012	Wed	2100	(MS)
6942	S06	314 0	AM	7-4-2012	Sat	1900	(HFD)
6942	S06	314 314 314 00000	USB	7-4-2012	Sat	1900	(FMB)

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6950	M51	ip	CW	5-4-2012	Thu	0724	(FMB)
6950	M51	ip	CW	4-4-2012	Wed	1553	(FMB)
6950	M51	NR 57 A 04 17:43:23 1984 = NVOFV TCNOM RHTAJ WUBOJ OHJXC UIJEQ MDQHK HYOAK YKNOS AVHHD	CW	4-4-2012	Wed	1623	(DLBB)
6957	M42	Russian Intel.	FSK 200/1000	2-4-2012	Mon	1620	(FMB)
6957	M42	Russian Intel.	FSK 200/1000	8-4-2012	Sun	1620	(FMB)
6957	M42	Russian Intel.	FSK 200/1000	4-4-2012	Wed	1620	(FMB)
6977	M03	798/00 = 000 ???	CW	17-4-2012	Tue	1537	(AB)
6989	M42	Russian Intel. 00000+++++++162)5761	FSK 200/500	26-4-2012	Thu	1910	(linkz)
7019	M32	Russian Mil. 3EFO 3EFO VVV K	CW	9-4-2012	Mon	0046	(Daunt)
7021	M01b	201 201 201 129 30 = 24273 24273 25495 25495 30 30 000	CW	22-3-2012		1933	(IARUMS)
7038.9	MX	Beacon "S"	CW	23-4-2012	Mon	1653	(AB)
7039	MX	Beacon "C"	CW	23-4-2012	Mon	1653	(AB)
7039	MX	Beacon "C"	CW	12-4-2012	Thu	1156	(AB)
7041	M32	CIS Mil. ".NchND ZLNchH CARA 157 RPT AL K"	CW	22-3-2012		1913	(IARUMS)
7041	M32	CIS Mil. "481=PPPPP LVRPX à"	CW	29-3-2012		2211	(IARUMS)
7041	M32	CIS Mil. "7OVN R262? K"	CW	10-3-2012		1704	(IARUMS)
7041	M32	CIS Mil. "CDWY de 3MOW K"	CW	21-3-2012		1833	(IARUMS)
7041	M32	CIS Mil. "OOIO de 3MOW K"	CW	29-3-2012		2217	(IARUMS)
7041	M32	CIS Mil. "QUOE de 7OVN K"	CW	9-3-2012		1859	(IARUMS)
7041	M32	CIS Mil. "QUOE de 7OVN QTA262 K"	CW	10-3-2012		1708	(IARUMS)
7041	M32	CIS Mil. "WLI6 de 3MOW QTC"	CW	29-3-2012		2203	(IARUMS)
7041	M32	CIS Mil. LSZA de OMPF K	CW	24-4-2012	Tue	1942	(MPJ)
7041	M32	Russian Mil. BYLA BYLA DE QHAD RPT K RK LGED LGED DE QHAD K	CW	12-4-2012	Thu	2333	(ea5cec)
7041	M32	XXX XXX 2V8I 2V8I WRAGBYJ WRAGBYJ 1837 2883	CW	10-4-2012	Tue	2320	(ea5cec)
7120	S06s	481	AM	12-4-2012	Thu	1200	(HFD)
7120	S06s	481 927 5 45453 23831 05746 58393 42400 927 5 00000	USB	11-4-2012	Wed	1200	(AB)
7120	S06s	481 963 5 74830 44618 37281 55191 12130 963 5 00000	USB	25-4-2012	Wed	1200	(AB)
7162	M21	PVO =99?2321?9??????	CW	29-3-2012		2021	(IARUMS)
7317	S11a	484/00	USB	3-4-2012	Tue	0915	(AB)
7317	S11a	484/00	USB	24-4-2012	Tue	0915	(AB)
7335	S06s	745 218 6 82424 88878 19755 43455 64174 14553 218 6 00000	USB	11-4-2012	Wed	0835	(AB)
7335	S06s	745 298 6 94289 15244 21541 56567 48850 68867 298 6 00000	USB	25-4-2012	Wed	0830	(AB)
7340	S06s	893 512 6 64435 42795 58512 88101 01353 04528 512 6 00000	USB	3-4-2012	Tue	1010	(AB)
7340	S06s	893 527 6 15450 72110 85565 52805 28824 45083 527 6 00000	USB	17-4-2012	Tue	1010	(AB)
7371	S11a	484/00	USB	10-4-2012	Tue	0915	(AB)
7437	E07a	411 0	AM	12-4-2012	Thu	0430	(HFD)
7437	E07a	411 1 11512 362 61 81275 22672 78682	USB	19-4-2012	Thu	0430	(HS2/ Avare)
7437	E07a	411 1 11512 362 61 81275 22672 10647 78682 000 000	AM	19-4-2012	Thu	0430	(Spec)
7437	E07a	411 1 36562 49 44021 45000 95910 27480 000 000	AM	5-4-2012	Thu	0430	(Spec)
7449	E11	469/00	USB	17-4-2012	Tue	1045	(AB)
7449	E11	469/00	USB	18-4-2012	Wed	1045	(AB)
7449	E11a	463/36	USB	25-4-2012	Wed	1045	(AB)
7473	E07a	147 1 11512 362 61 81275 22672 10647 78682 000 000	AM	18-4-2012	Wed	2020	(Spec)
7473	E07a	147 1 36562 49 44021 45000 95910 27480 000 000	AM	4-4-2012	Wed	2020	(Spec)
7473	E07a	147 1-36562	AM	4-4-2012	Wed	2020	(HFD)
7519	M08a	36202 87581 51471	CW	9-4-2012	Mon	2200	(MS)
7519	M08a	38721 80212 10581	CW	2-4-2012	Mon	2200	(MS)
7519	M08a	74371 28082 60202	CW	13-4-2012	Fri	2200	(MS)
7526	E07	358 1	USB	12-4-2012	Thu	2030	(HFD)
7526	E07	358 358 358 1...000	AM	19-4-2012	Thu	2030	(FG)
7526	M08a	20151 06832 63852	CW	3-4-2012	Tue	2200	(MS)
7526	M08a	70221 13001 24372	CW	10-4-2012	Tue	2200	(MS)
7526	M08a	82102 44581 37212	CW	17-4-2012	Tue	2200	(MS)
7554	M08a	16151 16071 88761	CW	5-4-2012	Thu	2000	(MS)

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7554	M08a	32551 15671 30131	CW	10-4-2012	Tue	2000	(MS)
7554	M08a	46381 63861 45651	CW	17-4-2012	Tue	2000	(MS)
7554	M08a	61372 81032 64722	CW	19-4-2012	Thu	2000	(MS)
7554	M08a	Russian Intel..... 42302 67601 (Stn came up late and IP. Also using different callups)	CW	9-4-2012	Mon	2007	(MS)
7579	M08a	01011 70001 77601	CW	3-4-2012	Tue	1300	(MS)
7579	M08a	11382 84451 61322	CW	19-4-2012	Thu	1300	(MS)
7579	M08a	17821 30432 02221	CW	17-4-2012	Tue	1300	(MS)
7579	M08a	37381 62022 52561	CW	9-4-2012	Mon	1300	(MS)
7579	M08a	76442 71242 22452	CW	12-4-2012	Thu	1300	(MS)
7579	M08a	78242 56481 72841	CW	10-4-2012	Tue	1300	(MS)
7579	M08a	87781 60011 64632	CW	6-4-2012	Fri	1300	(MS)
7579	M08a	Russian Intel..... (Stn having xmtr problems. Up and down at 1307z and again at	CW	5-4-2012	Thu	1300	(MS)
7579	M08a	Russian Intel..... 34362	CW	13-4-2012	Fri	1300	(MS)
7579	M08a	Russian Intel..... 27752 47231 (Stn came up late and IP)	CW	11-4-2012	Wed	1304	(MS)
7579	M08a	Russian Intel..... 45622 65001 (Station came up late and IP. Xmsn cutting out badly.)	CW	2-4-2012	Mon	1305	(MS)
7580	V13	New Star #4. Flute tune + coded messages	USB	6-4-2012	Fri	0500	(AB-HK)
7580	V13	New Star #4. Flute tune + coded messages	USB	6-4-2012	Fri	0600	(AB-HK)
7580	V13	New Star #4. Flute tune + coded messages	USB	5-4-2012	Thu	0500	(AB-HK)
7580	V13	New Star in progress	USB	5-4-2012	Thu	0610	(AB-HK)
7580	V13	New Star in progress	USB	6-4-2012	Fri	1303	(AB-HK)
7582	M89	(In tfc) V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW	26-4-2012	Thu	0142	(JPL)
7582	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW	20-4-2012	Fri	0218	(JPL)
7582	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW	27-4-2012	Fri	0001	(JPL)
7582	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW	2-4-2012	Mon	0051	(JPL)
7582	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW	14-4-2012	Sat	0215	(JPL)
7582	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW	15-4-2012	Sun	0039	(JPL)
7582	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW	5-4-2012	Thu	0026	(JPL)
7582	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW	17-4-2012	Tue	0211	(JPL)
7582	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW	11-4-2012	Wed	0325	(JPL)
7582	M89	V 7NPE 7NPE 7NPE DE QV5B QV5B	CW	5-4-2012	Thu	0612	(AB-HK)
7602	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	13-4-2012	Fri	1836	(JPL)
7602	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	2-4-2012	Mon	2144	(JPL)
7602	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	14-4-2012	Sat	1759	(JPL)
7602	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	14-4-2012	Sat	2044	(JPL)
7602	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	21-4-2012	Sat	1602	(JPL)
7602	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	5-4-2012	Thu	0013	(JPL)
7602	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	19-4-2012	Thu	1701	(JPL)
7602	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	10-4-2012	Tue	2233	(JPL)
7602	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	10-4-2012	Tue	2243	(JPL)
7602	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	24-4-2012	Tue	1426	(JPL)
7602	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	24-4-2012	Tue	1600	(JPL)
7602	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	11-4-2012	Wed	1736	(JPL)
7602	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	11-4-2012	Wed	2104	(JPL)
7602	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	11-4-2012	Wed	2131	(JPL)
7602	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5230	CW	21-4-2012	Sat	1403	(JPL)
7605	S06s	471 850 6 54146 66941 40521 88695 67126 65351 850 6 00000	USB	25-4-2012	Wed	0820	(AB)
7605	S06s	471 850 6 54146 66941 40521 88695 67126 65351 850 6 00000	USB	25-4-2012	Wed	0820	(AB)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	27-4-2012	Fri	1354	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	27-4-2012	Fri	1706	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	27-4-2012	Fri	2116	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	16-4-2012	Mon	1104	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	5-4-2012	Thu	1203	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	26-4-2012	Thu	1103	(JPL)

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7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	26-4-2012	Thu	1301	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	26-4-2012	Thu	1444	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	26-4-2012	Thu	1612	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	26-4-2012	Thu	1840	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	26-4-2012	Thu	1843	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	26-4-2012	Thu	1925	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	26-4-2012	Thu	2113	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	26-4-2012	Thu	2125	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	3-4-2012	Tue	1718	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	3-4-2012	Tue	2326	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //10779	CW	2-4-2012	Mon	2148	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	13-4-2012	Fri	1839	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	13-4-2012	Fri	2148	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	20-4-2012	Fri	1243	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	20-4-2012	Fri	2059	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	20-4-2012	Fri	2125	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	2-4-2012	Mon	2155	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	9-4-2012	Mon	1808	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	9-4-2012	Mon	2105	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	16-4-2012	Mon	2131	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	23-4-2012	Mon	1417	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	23-4-2012	Mon	1602	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	23-4-2012	Mon	1801	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	23-4-2012	Mon	2057	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	14-4-2012	Sat	1801	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	14-4-2012	Sat	1907	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	14-4-2012	Sat	2045	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	21-4-2012	Sat	1408	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	21-4-2012	Sat	1600	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	1-4-2012	Sun	1442	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	15-4-2012	Sun	1351	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	15-4-2012	Sun	1525	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	15-4-2012	Sun	2048	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	29-4-2012	Sun	1528	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	29-4-2012	Sun	1826	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	5-4-2012	Thu	1410	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	5-4-2012	Thu	1711	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	5-4-2012	Thu	2259	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	19-4-2012	Thu	1700	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	19-4-2012	Thu	2106	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	3-4-2012	Tue	1532	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	3-4-2012	Tue	1739	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	10-4-2012	Tue	1336	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	10-4-2012	Tue	2241	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	17-4-2012	Tue	1430	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	17-4-2012	Tue	1651	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	17-4-2012	Tue	1725	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	17-4-2012	Tue	2025	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	24-4-2012	Tue	1154	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	24-4-2012	Tue	1429	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	24-4-2012	Tue	1604	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	4-4-2012	Wed	1318	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	11-4-2012	Wed	1318	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	11-4-2012	Wed	1741	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	11-4-2012	Wed	2101	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	11-4-2012	Wed	2133	(JPL)

frequency	enigma	remarks	mode	date	day	UTC	contributor
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	11-4-2012	Wed	2229	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	25-4-2012	Wed	2236	(JPL)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) From night time freq at 1118z	CW	15-4-2012	Sun	1118	(JPL)
7607	M89	VVV HR SVC NR 036 2145 RMKS 14780 TO 0393/0398 BT COMM/2230/LZ851A/1478/.393 AGN (Rpt of msg) AR QSL ? HR WWK NR 17 V WITN DE GNXG //4590	CW	9-4-2012	Mon	1358	(JPL)
7612	S06	134 0	AM	14-4-2012	Sat	1605	(HFD)
7612	S06	134 134 134 00000	USB	14-4-2012	Sat	1605	(HS2)
7620	S06s	967	USB	12-4-2012	Thu	1230	(HFD)
7627	M52	French mil. training in 5LG's	CW	29-4-2012	Sun	0258	(oar9fi)
7664	M32a	RGR35 DE RIW	CW	19-4-2012	Thu	2108	(Pat)
7664	M32a	RIW: Moscow Naval Radio "RGR35 de RIW QYT9 (printer) QSA4 QMO (go into cipher) K."	CW	13-4-2012	Fri	1953	(MPJ)
7688	V13	New Star #3	USB	3-4-2012	Tue	0700	(AB-HK)
7688	V13	New Star #3. Flute tune followed by coded messages	USB	7-4-2012	Sat	0700	(AB-HK)
7688	V13	New Star #4. Flute tune + coded messages	USB	6-4-2012	Fri	0800	(AB-HK)
7688	V13	New Star in progress	USB	5-4-2012	Thu	0720	(AB-HK)
7795	S06s	196	USB	13-4-2012	Fri	0600	(HFD)
7801	M32a	RHC84: Russian navy Simplex 5L message to RCV	CW	14-4-2012	Sat	0453	(PPA)
7815	M32a	RMW32: Russian navy Calling RMW44 and RMW36	CW	15-4-2012	Sun	0517	(PPA)
7816.7	EGY	Egyptian diplo	SITOR-A 100/170	14-4-2012	Sat	1938	(PPA)
7823	M51	5L msg after bt nr 01 a 16 18:13:12 1984 bt	CW	16-4-2012	Mon	1613	(PPA)
7837	M32a	RBEG: Russian navy ship RCV DE RBEG	CW	14-4-2012	Sat	0522	(PPA)
7841	M32	UT8Y: CIS military CIS 1Calling 80SO	CW	15-4-2012	Sun	1818	(PPA)
7841	M42	Russian Intel.	Baudot 200/500	7-4-2012	Sat	2030	(FMB)
7841	M42	Russian Intel.	Baudot 200/500	21-4-2012	Sat	2030	(FMB)
7844	M51	ip	CW	9-4-2012	Mon	1629	(FMB)
7844	M51	ip	CW	10-4-2012	Tue	0712	(FMB)
7853	M32	SJ6P: Russian mil. 20LC DE SJ6P	CW	18-4-2012	Wed	0447	(PPA)
7861	M32	RAL2: Russian mil. radiocheck with RDU2 and RFH2	CW	14-4-2012	Sat	1850	(PPA)
7861	M32	RDU2: Russian mil. radiocheck with RAL2	CW	14-4-2012	Sat	1851	(PPA)
7861	M32	RFH2: Russian mil. radiocheck with RAL2	CW	14-4-2012	Sat	1850	(PPA)
7870	M42	Russian Intel.	FSK 200/1000	17-4-2012	Tue	2310	(FMB)
7919	XPA	msg	MFSK	3-4-2012	Tue	0440	(HFD)
7931	M12	257 1	CW	16-4-2012	Mon	1820	(HFD)
7931	M12	257 1	CW	5-4-2012	Thu	1720	(HFD)
7931	M12	257 1	CW	5-4-2012	Thu	1920	(HFD)
7931	M12	257 1 1920 64 72823 20492 97033 ... 23486 000 000	CW	26-4-2012	Thu	1920	(CG)
7931	M12	257 1 2599 36 5?061 82862 46884 ... 27107 000 000 (strong qsb)	CW	19-4-2012	Thu	1720	(CG)
7931	M12	257 1 2871 45 88269 14650 84526 ... 33145 000 000	CW	23-4-2012	Mon	1820	(CG)
7931	M12	257 1 4806 63 93597 72126 51308 ... 43854 000 000	CW	23-4-2012	Mon	1920	(CG)
7931	M12	257 1 5621 47 77414 97721 95048 ... 26359 000 000	CW	19-4-2012	Thu	1920	(CG)
7931	M12	257 1 6327 70 92853 90156 96539 ... 19402 000 000	CW	16-4-2012	Mon	1820	(CG)
7931	M12	257 1 6924 86 38997 33192 44179 ... 34005 000 000 (strong qsb)	CW	16-4-2012	Mon	1920	(CG)
7931	M12	257 1 8134 41 72643 ?3856 79596 ... 04245 000 000	CW	26-4-2012	Thu	1720	(CG)
7931	M12	257 1 9083 78 22726 53856 68255 ... 82786 000 000	CW	23-4-2012	Mon	1720	(CG)
7931	M12	257 1 9392 74 34762 51840 13302 ... 75564 000 000 (599 strong qsb)	CW	16-4-2012	Mon	1720	(CG)
7931	M12	ip	CW	2-4-2012	Mon	1723	(FMB)
7992	M42	Russian Intel.	FSK 200/1000	2-4-2012	Mon	1640	(FMB)
7992	M42	Russian Intel.	FSK 200/1000	8-4-2012	Sun	1640	(FMB)
7992	M42	Russian Intel.	FSK 200/1000	4-4-2012	Wed	1640	(FMB)
7992	M42	Russian Intel.	FSK 200/1000	20-4-2012	Fri	1640	(linkz)
8009	M08a	04712 26882 10511	CW	5-4-2012	Thu	2200	(MS)
8009	M08a	33771 31801 72011	CW	16-4-2012	Mon	2300	(MS)

frequency	enigma	remarks	mode	date	day	UTC	contributor
8009	M08a	36202 87581 51471	CW	9-4-2012	Mon	2300	(MS)
8009	M08a	38721 80212 10581 (Signal is very weak this hour.)	CW	2-4-2012	Mon	2300	(MS)
8009	M08a	81341 34252 54631	CW	19-4-2012	Thu	2200	(MS)
8009	M08a	Russian Intel..... 23502 24851 (Stn came up late and IP)	CW	12-4-2012	Thu	2203	(MS)
8015	M51	ip	CW	8-4-2012	Sun	1511	(FMB)
8016	M51	5LGs	CW	9-4-2012	Mon	0049	(MCO)
8029	M12	890 1	CW	12-4-2012	Thu	0420	(HFD)
8029	M12	890 1 819 175 99919 13522 55731 ... 66086 000 000	CW	26-4-2012	Thu	0420	(CG)
8040	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	5-4-2012	Thu	0032	(JPL)
8047	M12	463 1	CW	12-4-2012	Thu	1700	(HFD)
8063	XPA	304 304 304 1 into 64 5FGs	MFSK	29-3-2012		1950	(PPA)
8094	M51	ip	CW	2-4-2012	Mon	1527	(FMB)
8095	M51	French military/intel Favieres 5L msg after nr 08 a 02 18:59:52 1984 bt	CW	2-4-2012	Mon	1700	(PPA)
8095	M51	ip	CW	15-4-2012	Sun	1618	(FMB)
8096	M08a	(Stn up late and IP. Signal fades away before callups can be recovered)	CW	5-4-2012	Thu	1403	(MS)
8096	M08a	07372 74631 80182	CW	4-4-2012	Wed	1400	(MS)
8096	M08a	11382 84451 61322	CW	19-4-2012	Thu	1400	(MS)
8096	M08a	16262 85481 33262 (Sent different callups than the previous 1300z sked on 7579m)	CW	3-4-2012	Tue	1400	(MS)
8096	M08a	17821 30432 02221	CW	17-4-2012	Tue	1400	(MS)
8096	M08a	25042 28011 34362	CW	13-4-2012	Fri	1400	(MS)
8096	M08a	37381 62022 52561	CW	9-4-2012	Mon	1400	(MS)
8096	M08a	46651 45622 65001	CW	2-4-2012	Mon	1400	(MS)
8096	M08a	48751 27752 47231	CW	11-4-2012	Wed	1400	(MS)
8096	M08a	51172 75851 26162	CW	16-4-2012	Mon	1400	(MS)
8096	M08a	76442 71242 22452	CW	12-4-2012	Thu	1400	(MS)
8096	M08a	78242 56481 72841	CW	10-4-2012	Tue	1400	(MS)
8096	M08a	87781 60011 64632	CW	6-4-2012	Fri	1400	(MS)
8097	M08a	04521 22471 43751	MCW	6-4-2012	Fri	1900	(MS)
8097	M08a	11352 60352 53282	MCW	9-4-2012	Mon	1800	(MS)
8097	M08a	11352 60352 53282	MCW	9-4-2012	Mon	1900	(MS)
8097	M08a	27541 34762 50131	MCW	16-4-2012	Mon	1900	(MS)
8097	M08a	46532 04531 84272	MCW	2-4-2012	Mon	1800	(MS)
8097	M08a	84672 02131 17432	MCW	4-4-2012	Wed	1900	(MS)
8097	M08a	Russian Intel..... 02131 17432 (Station came up late and IP. Also, MCW went silent from 1816z		4-4-2012	Wed	1804	(MS)
8099	M14	127 ttttt	CW	2-4-2012	Mon	1740	(FMB)
8105	S06s	967	USB	12-4-2012	Thu	1240	(HFD)
8105	S06s	967 832 5 84751 07258 53539 21655 67842 832 5 00000	USB	11-4-2012	Wed	1240	(AB)
8110	M89	(In tfc) V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW	26-4-2012	Thu	0142	(JPL)
8110	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW	20-4-2012	Fri	0218	(JPL)
8110	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW	27-4-2012	Fri	0001	(JPL)
8110	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW	2-4-2012	Mon	0051	(JPL)
8110	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW	14-4-2012	Sat	0215	(JPL)
8110	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW	15-4-2012	Sun	0039	(JPL)
8110	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW	5-4-2012	Thu	0026	(JPL)
8110	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW	17-4-2012	Tue	0211	(JPL)
8110	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW	11-4-2012	Wed	0325	(JPL)
8116	M12	124 0	CW	10-4-2012	Tue	1910	(HFD)
8116	M12	124 1	CW	12-4-2012	Thu	1800	(HFD)
8116	M12	124 1 1690 43 80270 06012 82549 ... 98479 000 000	CW	19-4-2012	Thu	1840	(CG)
8116	M12	124 1 2638 51 19933 87936 32158 ... 55153 000 000	CW	24-4-2012	Tue	1910	(CG)
8116	M12	124 1 4466 72 52975 62236 89490 ... 82148 000 000	CW	19-4-2012	Thu	1740	(CG)
8116	M12	124 1 4649 98 82633 05782 51063 ... 53323 000 000	CW	26-4-2012	Thu	1840	(CG)

frequency	enigma	remarks	mode	date	day	UTC	contributor
8116	M12	124 1 6395 73 86082 46823 36948 ... 95054 000 000	CW	20-4-2012	Fri	1840	(CG)
8116	M12	124 1 6593 70 01769 21995 17732 ... 42440 000 000	CW	26-4-2012	Thu	1740	(CG)
8120	M14	362 ttttt	CW	10-4-2012	Tue	0700	(FMB)
8123	E07	171 1	AM	12-4-2012	Thu	1740	(HFD)
8135	M08a	20151 06832 63852	CW	3-4-2012	Tue	2300	(MS)
8135	M08a	70221 13001 24372	CW	10-4-2012	Tue	2300	(MS)
8135	M08a	74371 28082 60202	CW	13-4-2012	Fri	2300	(MS)
8135	M08a	82102 44581 37212	CW	17-4-2012	Tue	2300	(MS)
8135	M08a	Russian Intel..... 23502 24851 (Stn found late and IP)	CW	12-4-2012	Thu	2304	(MS)
8135	M08a	Russian Intel..... 26882 10511 (Stn up late and IP)	CW	5-4-2012	Thu	2300	(MS)
8137	E07a	411 0	AM	12-4-2012	Thu	0450	(HFD)
8137	E07a	411 1 11512 362 61 81275 22672 10647 78682 000 000	AM	19-4-2012	Thu	0450	(Spec)
8137	E07a	411 1 36562 49 44021 45000 95910 27480 000 000	AM	5-4-2012	Thu	0450	(Spec)
8162	S06	134 0	AM	21-4-2012	Sat	1600	(HFD)
8162	S06	134 134 134 00000	AM	21-4-2012	Sat	1600	(Avare)
8167	M14	(ip) == 962 962 47 47 ttttt	CW	21-4-2012	Sat	1637	(FMB)
8167	M14	t58 (R5) 736 736b 42 42 == 5#497 97t9t 93221....	CW	15-4-2012	Sun	1630	(FMB)
8170	VC01	Chinese Robot	USB	30-4-2012	Mon	1040	(rusl)
8173	E07a	147 1 11512 362 61 81275 22672 10647 78682 000 000	AM	18-4-2012	Wed	2000	(Spec)
8173	E07a	147 1 36562 49 44021 45000 95910 27480 000 000	AM	4-4-2012	Wed	2000	(Spec)
8173	E07a	147 1-36562-416/49 =44021	AM	4-4-2012	Wed	2000	(HFD)
8181	M--	3 ttt	CW	16-4-2012	Mon	0536	(FMB)
8188	M42	Russian Intel.	FSK 200/1000	16-4-2012	Mon	0720	(FMB)
8189	M42	Russian Intel.	FSK 200/1000	5-4-2012	Thu	0720	(FMB)
8313	XSL	Kaijo Jieitai a.k.a. Slot Machine	QPSK 1500	6-4-2012	Fri	1311	(AB-HK)
8345	M32a	RMCW: Russian naval vessel qtc to rcv rmcw 630 15 17 0103 630 = sml for rje73 rjh45 = 16211 99369 10240 42/97 91312 10174 40101 57008 22242 00164 2//// 17011 = + rmcw	CW	16-4-2012	Mon	2104	(WP3)
8345	M32a	Russian Navy "RIW de RGR35"	CW	23-4-2012	Mon	0542	(Pat)
8494.7	MX	Beacon "D"	CW	23-4-2012	Mon	1653	(AB)
8494.7	MX	Beacon "D"	CW	12-4-2012	Thu	1156	(AB)
8588	XSL	Kaijo Jieitai a.k.a. Slot Machine	QPSK 1500	6-4-2012	Fri	1311	(AB-HK)
8678	M32a	RIW becomes active on 8678//9700 at 15:01. Ship not active. RHL80 de RIW QYT4 QSA NO QSX 8330/12398 K (RIW can't hear the ship either).	CW	25-4-2012	Wed	1501	(MPJ)
8695	S06s	196	USB	13-4-2012	Fri	0610	(HFD)
8703.5	XSL	Kaijo Jieitai a.k.a. Slot Machine	QPSK 1500	6-4-2012	Fri	1311	(AB-HK)
8789	M89	V WITN (x3) DE GNXXG (x2) (Cont'd)	CW	15-4-2012	Sun	0042	(JPL)
8789	M89	V WITN (x3) DE GNXXG (x2) (Cont'd)	CW	5-4-2012	Thu	0018	(JPL)
8789	M89	V WITN (x3) DE GNXXG (x2) (Cont'd)	CW	11-4-2012	Wed	0331	(JPL)
8789	M89	V WITN (x3) DE GNXXG (x2) (Cont'd) //10779	CW	20-4-2012	Fri	0226	(JPL)
8789	M89	V WITN (x3) DE GNXXG (x2) (Cont'd) //10779	CW	2-4-2012	Mon	0053	(JPL)
8789	M89	V WITN (x3) DE GNXXG (x2) (Cont'd) //10779	CW	14-4-2012	Sat	0217	(JPL)
8789	M89	V WITN (x3) DE GNXXG (x2) (Cont'd) //10779	CW	5-4-2012	Thu	0029	(JPL)
8789	M89	V WITN (x3) DE GNXXG (x2) (Cont'd) //10779	CW	26-4-2012	Thu	1030	(JPL)
8789	M89	V WITN (x3) DE GNXXG (x2) (Cont'd) //10779	CW	17-4-2012	Tue	0226	(JPL)
8789	M89	V WITN (x3) DE GNXXG (x2) (Cont'd) //10779 VV HR SVC GA NR 155 1830 RMKS aw478 TO 0.85/1574 BT COMM/1915/LZ258a8/14 63/mw295 AR HR WK NR 36 QSL?	CW	26-4-2012	Thu	1057	(JPL)
8789	M89	V WITN (x3) DE GNXXG (x2) (Cont'd) To daytime freq at 1118z //10779	CW	15-4-2012	Sun	1049	(JPL)
8816	M32b	08260: Russian Naval Air Transport An-12 qtc to rjf94 rjc38 08260 qto 0710 qrd XLAA XLMV qre 0820 qbd 13500 - qqm XLAA 0824 - qto 1045 qrd XWWS XLAA qre 1415 qbd 15800 - qth 6117 3845 qtr 1138 qbg 7300 - qth 5842 3759 qtr 1216 qbd 11800 - qth 5552 4146 qtr 1305 qre XWWS 1420 - qth 5449 4635 qtr 1340 qbg 7000 qbd 8400 - qqm XWWS 1415 sk	CW	17-4-2012	Tue	0729	(WP3)
8816	M32b	08260: Russian Naval Air Transport qtc to RJF94 "rjc38 08260	CW	4-4-2012	Wed	1155	(WP3)

frequency	enigma	remarks	mode	date	day	UTC	contributor
		qto 1148 qrd XLWF XRRC qre 1505 qbd 15500 - qth 5107 3937 qtr 1250 qbg 6700 - qay UDD 1350 qbk 6700 - qre XLWF 1450 - qqm XLWF 1449 - qto 1615 qrd XLMV XLWF qre 1835 qbd 14500 - qth					
8816	M32b	08265: Russian Naval Air Transport AN-12 qtc to rjf94 rjc38 08256 qto 0700 qrd XLMV XLWF qre 0920 qbd 13700 - qth 6258 3556 qtr 0755 qbg 7300 - qth 6622 3334 qtr 0835 qbd 9700 qre XLMV 0915 - qqm XLMV 0917 sk	CW	12-4-2012	Thu	0717	(WP3)
8816	M32b	44444: Russian Naval Air Transport qrc to RFJ94 "rcb 44444 qto 0705 qrd XLLV XMWB qre 1005 qah 5800 qbd 4200 k - qay evrr 0800 qah 5800 qbd 3600 k - qay EETT 0848 qal XLLV 0940 qah 5800 qbd 2800 k - qqm XLLV 0942 k"	CW	3-4-2012	Tue	0727	(WP3)
8816	M32b	52555: Russian Naval Air Transport tfc to rjf94 "rcb qto 0815 qrd CW XLLV XMWB qre 1105 qah 5800 qbd 4400 - qay EVRR 0900 qah 5800 qbd 3700 - qay EETT 1000 qal XLLV 1046 qah 5800 qbd 2900 - qqm XLLV 1052 - qto 1245"	CW	9-4-2012	Mon	0820	(WP3)
8816	M32b	52575: Russian Naval Air Transport qtc to RJF94 "rjc38 52575 qto 0600 qrd XLWF XLMV qre 0920 qbd 4500 - qql XLMF 0634 qbg 5700 - qql ULPE 0717 qbd 3000 - qth 6117 3700 qtr 0822 qbd 3500 qre XLWF 0910 - qqm XLWF 0905	CW	4-4-2012	Wed	0606	(WP3)
8816	M32b	52575: Russian Naval Air Transport qtc to rjf94 "rjc38 qto 0830 qrd XLAA XLMV qrd 4800 qre 1020 - qth 6617 3914 qtr 0934 qre XLAA 1010 - qqm XLAA 1008	CW	9-4-2012	Mon	0938	(WP3)
8816	M32b	52575: Russian Naval Air Transport qtc to rjf94 rjc38 52575 qto 1000 qrd XLMV XLAA qbd 4400 qre 1145 - qth 6735 3552 qtr 1105 qre XLMV 1140 - qqm XLMV 1141 - sk	CW	12-4-2012	Thu	1110	(WP3)
9035	EGY	99902: MFA Cairo EGY calling Baghdad Sitor call TVVC	SITOR-A 100/170	7-4-2012	Sat	0415	(PPA)
9054.1	XPA2	Russian intel 5F message	MFSK 1+12	8-4-2012	Sun	0510	(PPA)
9063	M08a	58182 18771 77582	MCW	9-4-2012	Mon	0900	(MS)
9063	SK01	RDFT	RDFT	1-4-2012	Sun	0630	(MS)
9067	M42	Russian Intel.	FSK 200/1000	22-4-2012	Sun	1710	(linkz)
9067.7	EGY	MFA Cairo EGY. Selcall OOVF Pyongyang	SITOR-A 100/170	6-4-2012	Fri	1937	(PPA)
9068	M42	Russian Intel.	FSK 200/1000	2-4-2012	Mon	1710	(FMB)
9068	M42	Russian Intel.	FSK 200/1000	8-4-2012	Sun	1710	(FMB)
9068	M42	Russian Intel.	FSK 200/1000	4-4-2012	Wed	1710	(FMB)
9088.0	M42	7ZGR: Russian Gov/Intel. "PR6O DE 7ZGR QSA? SLV K" into Baudot transmitting a 5F message with =50= seperator	CW + Baudot 50/500	7-4-2012	Sat	0506	(PPA)
9112	M08a	Russian Intel..... 76451 23581	MCW	1-4-2012	Sun	1009	(MS)
9124	SK01	RDFT	RDFT	1-4-2012	Sun	0600	(MS)
9124	SK01	RDFT	RDFT	12-4-2012	Thu	0600	(MS)
9137	E07a	411 1 11512 362 61 81275 22672 10647 78682 000 000	AM	19-4-2012	Thu	0510	(Spec)
9137	E07a	411 1 36562 49 44021 45000 95910 27480 000 000	AM	5-4-2012	Thu	0510	(Spec)
9138	XPA	msg	MFSK	3-4-2012	Tue	0500	(HFD)
9145	M32a	Russian Navy "RGR35 de RIW"	CW	23-4-2012	Mon	0542	(Pat)
9145	S06s	831 925 5 35884 10092 55671 16752 45718 925 5 00000	USB	16-4-2012	Mon	1200	(AB)
9145	S06s	831 974 5 46248 70256 93569 94550 13685 974 5 00000	USB	2-4-2012	Mon	1200	(HS2)
9150	M03	Too weak to copy	CW	17-4-2012	Tue	1116	(AB)
9169	M12	188 188 188 1 5133 or 3133 139	CW	27-4-2012	Fri	0940	(Tom)
9176	M12	257 1	CW	2-4-2012	Mon	1800	(FMB)
9176	M12	257 1	CW	16-4-2012	Mon	1800	(HFD)
9176	M12	257 1	CW	5-4-2012	Thu	1700	(HFD)
9176	M12	257 1	CW	5-4-2012	Thu	1900	(HFD)
9176	M12	257 1 1920 64 72823 20492 97033 ... 23486 000 000	CW	26-4-2012	Thu	1900	(CG)
9176	M12	257 1 2599 36 57061 82862 46884 ... 27107 000 000 (strong qsb)	CW	19-4-2012	Thu	1700	(CG)
9176	M12	257 1 2871 45 88269 14650 84526 ... 33145 000 000	CW	23-4-2012	Mon	1800	(CG)
9176	M12	257 1 4806 63 93597 72126 51308 ... 43854 000 000	CW	23-4-2012	Mon	1900	(CG)
9176	M12	257 1 5396 81 66334 81953 49720 ... 69436 000 000	CW	30-4-2012	Mon	1900	(CG)

frequency	enigma	remarks	mode	date	day	UTC	contributor
9176	M12	257 1 5621 47 77414 97721 95048 ... 26359 000 000	CW	19-4-2012	Thu	1900	(CG)
9176	M12	257 1 6327 70 92853 90156 96539 ... 19402 000 000	CW	16-4-2012	Mon	1800	(CG)
9176	M12	257 1 6924 86 38997 33192 44179 ... 34005 000 000 (strong qsb)	CW	16-4-2012	Mon	1900	(CG)
9176	M12	257 1 8134 41 72643 ?3856 79596 ... 04245 000 000	CW	26-4-2012	Thu	1700	(CG)
9176	M12	257 1 9083 78 22726 53856 68255 ... 82786 000 000	CW	23-4-2012	Mon	1700	(CG)
9176	M12	257 1 9392 74 34762 51840 13302 ... 75564 000 000 (599 strong qsb)	CW	16-4-2012	Mon	1700	(CG)
9186	M42	Russian Intel. 00000+++++++162)5761	FSK 200/500	26-4-2012	Thu	1900	(linkz)
9206	M51	ip	CW	8-4-2012	Sun	1507	(FMB)
9208	E07	172 1 957 100 = 46104 36468 (E07 has transmitter problems)	AM	30-4-2012	Mon	1940	(Avare)
9208	E07	172 1 957 100 46104 36468 52392 33974 000 000	AM	30-4-2012	Mon	1940	(Spec)
9208	E07	172 1 957 100 46104 36468 26818 ... 33974 000 000	AM	30-4-2012	Mon	1940	(CG)
9208	E07	172 172 172 1 957 100 957 100 etc.	AM	30-4-2012	Mon	1940	(tING)
9213	M51	5LGs	CW	10-4-2012	Tue	0044	(MCO)
9213	M51	ip	CW	9-4-2012	Mon	1628	(FMB)
9215	M51	ip	CW	10-4-2012	Tue	0712	(FMB)
9225	S06s	471 850 6 54146 66941 40521 88695 67126 65351 850 6 00000	USB	25-4-2012	Wed	0830	(AB)
9226	M42	Russian Intel.	Baudot 200/500	21-4-2012	Sat	2020	(FMB)
9243	XPA	msg	MFSK	5-4-2012	Thu	1940	(HFD)
9255	S06s	471 529 6 13438 55536 44452 65824 05561 57735 529 6 00000 (very weak)	USB	11-4-2012	Wed	0830	(AB)
9255	S06s	471 850 6 54146 66941 40521 88695 67126 65351 850 6 00000	USB	25-4-2012	Wed	0830	(AB)
9264	M12	124 1	CW	12-4-2012	Thu	1820	(HFD)
9264	M12	124 1	CW	10-4-2012	Tue	1850	(HFD)
9264	M12	124 1 1690 43 80270 06012 82549 ... 98479 000 000	CW	19-4-2012	Thu	1820	(CG)
9264	M12	124 1 2638 51 19933 87936 32158 ... 55153 000 000	CW	24-4-2012	Tue	1850	(CG)
9264	M12	124 1 4466 72 52975 62236 89490 ... 82148 000 000	CW	19-4-2012	Thu	1720	(CG)
9264	M12	124 1 4649 98 82633 05782 51063 ... 53323 000 000	CW	26-4-2012	Thu	1820	(CG)
9264	M12	124 1 6395 73 86082 46823 36948 ... 95054 000 000	CW	20-4-2012	Fri	1820	(CG)
9264	M12	124 1 6593 70 01769 21995 17732 ... 42440 000 000	CW	26-4-2012	Thu	1720	(CG)
9265	M42	Russian Intel.	FSK 200/1000	17-4-2012	Tue	2300	(FMB)
9326	M12	938 1 4628 65 57350 92790 95823 ... 90727 000 000	CW	25-4-2012	Wed	1910	(CG)
9326	M12	938 1 4876 53 27076 65172 97480 ... 80564 000 000	CW	18-4-2012	Wed	1910	(CG)
9326	M12	ip	CW	18-4-2012	Wed	1913	(FMB)
9327	M12	938 1	CW	25-4-2012	Wed	1910	(HFD)
9371	E11	416/00	USB	19-4-2012	Thu	1730	(tING)
9371	E11	512/38 512/38.....	USB	12-4-2012	Thu	1730	(MCZ)
9387	E07	358 1-240/65=35336	AM	12-4-2012	Thu	2010	(HFD)
9387	E07	358 358 358 1...000	AM	19-4-2012	Thu	2010	(FG)
9399	E11	534/00	USB	2-4-2012	Mon	0900	(AB)
9399	E11	534/00	USB	11-4-2012	Wed	0900	(AB)
9399	E11	534/00	USB	18-4-2012	Wed	0900	(AB)
9399	E11a	532/33	USB	25-4-2012	Wed	0900	(AB)
9399	S11a	534/00	USB	16-4-2012	Mon	0900	(AB)
9425	M42	Russian Intel.	FSK 200/1000	2-4-2012	Mon	1610	(FMB)
9425	M42	Russian Intel.	FSK 200/1000	8-4-2012	Sun	1610	(FMB)
9437	M42	Russian Intel.	FSK 200/1000	16-4-2012	Mon	0800	(FMB)
9450	E25	780 4959 2021 6510 3505 1237 0610 0434 9493 7519 8527 6143 6510] tone YL fair. Spider solitaire sounds heard after EOT	AM	23-4-2012	Mon	1316	(AiR)
9450	E25	785 41 788 4 7 7 7 7 7	AM	24-4-2012	Tue	1315	(AiR)
9450	E25	785 788 ... 78 78 EOM EOT	USB	5-4-2012	Thu	1317	(FG)
9450	E25	Music "Arouh Al-min". YL. 57 6 55					

frequency	enigma	remarks	mode	date	day	UTC	contributor
9450	E25	tone..song..555..MSG..RBT..EOM	USB	17-4-2012	Tue	1227	(FG)
9450	E25	YL. 275 275 275 275 275 275 275 275 275 275 message message message 280 EOM	USB	18-4-2012	Wed	1157	(AIK)
9450	E25	YL. 785 34 39 788 4 785 34 39 788 4 785 34 39 788 4 785 34 39 788 4 785 34 39 788 4 785 34 39 788 4 785 34 39... 788 4 785 34 39 788 4 785 34 39 788 4 785 34 39 788 4 785 34 39 788 4 785 34 39 788 4 785 34 39 788 4 785 34 39 788 4 785 34 39 788 4 785 34 39 788 4 785 34 39 788 4 785 34 39 788 4 7 7 7 7 7 message message message repeat repeat repeat EOM	AM	12-4-2012	Thu	1312	(AIK)
9450	E25a	YL. 785 29 30 31 788 4 785 29 30 31 788 4 785 29 30 31 788 4 785 29 30 etc. (see N&O 175)	AM	3-4-2012	Tue	1311	(AIK)
9450	E25a	YL. 785 38 788 4 34 785 38 788 4 34 785 38 788 4 34 785 38 788 4 3 4 785 38 788 4 34 785 38 788 4 34 785 38 788 4 34 785 38 788 4 34 785 38 788 4 34 785 38 788 4 34 785 38 788 4 34 785 38 788 4 34 785 38 788 4 34 785 38 788 4 34 785 38 788 4 34 78 78 78 78 7 repeat repeat repeat EOM EOT	AM	10-4-2012	Tue	1311	(AIK)
9480	S06s	328	USB	25-4-2012	Wed	0840	(HFD)
9700	M32a	RIW becomes active on 8678//9700 at 15:01. Ship not active. RHL80 de RIW QYT4 QSA NO QSX 8330/12398 K (RIW can't hear the ship either).	CW	25-4-2012	Wed	1501	(MPJ)
9946	M14	ip	CW	2-4-2012	Mon	1649	(FMB)
9946	M42	Russian Intel.	FSK 200/1000	10-4-2012	Tue	1730	(FMB)
9953	M14	343(R5) 896 896 52 52 == 44539 22594....	CW	9-4-2012	Mon	1700	(FMB)
9960	S11a	426/00	USB	20-4-2012	Fri	1020	(AB)
9960	S11a	426/00	USB	17-4-2012	Tue	1020	(AB)
9960	S11a	426/31	USB	6-4-2012	Fri	1020	(AB)
9960	S11a	427/31	USB	3-4-2012	Tue	1020	(AB)
9961	S11	ip	USB	5-4-2012	Thu	1028	(FMB)
10221	E11	633/00	USB	6-4-2012	Fri	0710	(AB)
10221	E11a	630/31 Attention	USB	10-4-2012	Tue	0710	(Spec)
10231	M51	ip	CW	2-4-2012	Mon	1640	(FMB)
10236	M32	MEKR: CIS mil. VVV DOQW DE MEKR AR	CW	23-4-2012	Mon	1805	(PPA)
10243	XPA	5F message	MFSK-20	24-4-2012	Tue	1920	(PPA)
10243	XPA	msg	MFSK	5-4-2012	Thu	1920	(HFD)
10263	M32	RAL2: Russian mil. Radiocheck with RRHQ2 ,RGH2 and RBL66	CW	22-4-2012	Sun	0608	(PPA)
10312	M51	ip	CW	4-4-2012	Wed	1443	(FMB)
10343	M12	124 1	CW	12-4-2012	Thu	1800	(HFD)
10343	M12	124 1	CW	10-4-2012	Tue	1830	(HFD)
10343	M12	124 1 1690 43 80270 06012 82549 ... 98479 000 000	CW	19-4-2012	Thu	1800	(CG)
10343	M12	124 1 4466 72 52975 62236 89490 ... 82148 000 000	CW	19-4-2012	Thu	1700	(CG)
10343	M12	124 1 4649 98 82633 05782 51063 ... 53323 000 000	CW	26-4-2012	Thu	1800	(CG)
10343	M12	124 1 6395 73 86082 46823 36948 ... 95054 000 000	CW	20-4-2012	Fri	1800	(CG)
10343	M12	124 1 6593 70 01769 21995 17732 ... 42440 000 000	CW	26-4-2012	Thu	1700	(CG)
10343	M12	Russian Intel...53 000 000 (weak)	CW	24-4-2012	Tue	1834	(CG)
10375	M97	In progress - SD 69 SN 70	CW	3-4-2012	Tue	1501	(JPL-HK)
10375	M97	SD 70 SN 100	CW	23-4-2012	Mon	1452	(JPL-HK)
10375	M97	SD 70 SN 100	CW	17-4-2012	Tue	1452	(JPL-HK)
10375	M97	SD70 SN100	CW	6-4-2012	Fri	1455	(AB-HK)
10419	XPA	msg	MFSK	3-4-2012	Tue	0520	(HFD)
10420	S06s	352 904 6 64877 42500 81125 47646 79398 77705 904 6 00000	USB	3-4-2012	Tue	0810	(AB)
10420	S06s	352 904 6 64877 42500 81125 47646 79398 77705 904 6 00000	USB	10-4-2012	Tue	0810	(AB)
10420	S06s	352 948 6 48705 43951 66535 50746 43485 75058 948 6 00000	USB	24-4-2012	Tue	0810	(AB)
10423	M14	(ip)== 736 736 42 42 tttt	CW	15-4-2012	Sun	1611	(FMB)
10519	X--	XPA start tones followed by unid data	USB	10-4-2012	Tue	1725	(Spec)
10529	M42	Russian Intel.	FSK 200/1000	21-4-2012	Sat	1120	(FMB)

frequency	enigma	remarks	mode	date	day	UTC	contributor
10597	M12	938 1	CW	18-4-2012	Wed	1850	(FMB)
10598	M12	938 1	CW	25-4-2012	Wed	1850	(HFD)
10598	M12	938 1 4628 65 57350 92790 95823 ... 90727 000 000	CW	25-4-2012	Wed	1850	(CG)
10598	M12	938 1 4876 53 27076 65172 97480 ... 80564 000 000 (599+40)	CW	18-4-2012	Wed	1850	(CG)
10630	M42	Russian Intel.	FSK 200/1000	21-4-2012	Sat	0820	(FMB)
10631	M42	Russian Intel.	FSK 200/1000	29-4-2012	Sun	0820	(linkz)
10640	M89	(In progress) VVV(x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	26-4-2012	Thu	1023	(JPL)
10640	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (In progress)	CW	11-4-2012	Wed	0324	(JPL)
10640	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	20-4-2012	Fri	0220	(JPL)
10640	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	27-4-2012	Fri	0020	(JPL)
10640	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	14-4-2012	Sat	0220	(JPL)
10640	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	15-4-2012	Sun	1120	(JPL)
10640	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	5-4-2012	Thu	0020	(JPL)
10640	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	5-4-2012	Thu	1220	(JPL)
10640	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	26-4-2012	Thu	0220	(JPL)
10640	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	26-4-2012	Thu	1120	(JPL)
10640	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	17-4-2012	Tue	0120	(JPL)
10640	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	24-4-2012	Tue	1220	(JPL)
10687	M42	Russian Intel.	FSK 200/1000	20-4-2012	Fri	1630	(linkz)
10688	M42	Russian Intel.	FSK 200/1000	8-4-2012	Sun	1630	(FMB)
10688	M42	Russian Intel.	FSK 200/1000	10-4-2012	Tue	1630	(FMB)
10688	M42	Russian Intel.	FSK 200/1000	4-4-2012	Wed	1630	(FMB)
10690	E11	649/00	USB	5-4-2012	Thu	0830	(AB)
10690	E11	649/00	USB	2-4-2012	Mon	0830	(HS2)
10690	E11a	644/32 Attention	USB	26-4-2012	Thu	0830	(Spec)
10690	E11a	644/32 Attention 41176 79190 64708 Attention rpt msg Out	USB	26-4-2012	Thu	0830	(AB)
10700	EV01	Multiple messages similar format to past, possibly repeats of the same messages as past. "Door creaking shut" sound at 1519 UTC. Station off at 1528 UTC.	AM	7-4-2012	Sat	1515	(Token)
10700	EV01	Tentative EV01. Very weak.	AM	7-4-2012	Sat	1340	(AnUSA)
10703	E07	171 1	AM	12-4-2012	Thu	1720	(HFD)
10703	E07	171 171 171 1 - 453 139	AM	22-4-2012	Sun	1720	(tiNG)
10704	E07	171 1	AM	4-4-2012	Wed	1720	(FMB)
10708	E07	172 0	AM	9-4-2012	Mon	1920	(HFD)
10708	E07	172 000	AM	18-4-2012	Wed	1920	(CG)
10708	E07	172 000 (59+50)	AM	23-4-2012	Mon	1920	(CG)
10708	E07	172 1 957 100 46104 36468 52392 33974 000 000	AM	30-4-2012	Mon	1920	(Spec)
10708	E07	172 1 957 100 46104 36468 26818 ... 33974 000 000	AM	30-4-2012	Mon	1920	(CG)
10708	E07	172 172 172 000	AM	23-4-2012	Mon	1920	(tiNG)
10708	E07	172 172 172 1 957 100 957 100 etc.	AM	30-4-2012	Mon	1920	(tiNG)
10710	M12	ip	CW	9-4-2012	Mon	1643	(FMB)
10711	M12	546 1	CW	9-4-2012	Mon	1640	(HFD)
10711	M12	546 1 4995 90 65215 33397 25888 ... 02974 000 000	CW	23-4-2012	Mon	1640	(CG)
10746	XPA2	5912 120 28660 30326 51119 ... 00734 (decoded by rivet build 20)	USB	26-4-2012	Thu	2020	(CG)
10748	M12	991 0	CW	12-4-2012	Thu	1540	(HFD)
10748	M12	991 1	CW	4-4-2012	Wed	1540	(FMB)
10748	M12	991 1 605 133 32189 41115 79858 ... 21809 000 000 (rpt of 1300 2012-04-23 Sked)	CW	25-4-2012	Wed	1540	(CG)
10748	M12	991 991 991 1	CW	25-4-2012	Wed	1540	(AB)
10779	M89	V WITN (x3) DE GNXXG (x2) (Cont'd)	CW	27-4-2012	Fri	0005	(JPL)
10779	M89	V WITN (x3) DE GNXXG (x2) (Cont'd)	CW	1-4-2012	Sun	0001	(JPL)
10779	M89	V WITN (x3) DE GNXXG (x2) (Cont'd)	CW	26-4-2012	Thu	0145	(JPL)
10779	M89	V WITN (x3) DE GNXXG (x2) (Cont'd) //4590	CW	1-4-2012	Sun	2131	(JPL)
10779	M89	V WITN (x3) DE GNXXG (x2) (Cont'd) //8789	CW	20-4-2012	Fri	0226	(JPL)
10779	M89	V WITN (x3) DE GNXXG (x2) (Cont'd) //8789	CW	2-4-2012	Mon	0053	(JPL)

frequency	enigma	remarks	mode	date	day	UTC	contributor
10779	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //8789	CW	14-4-2012	Sat	0217	(JPL)
10779	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //8789	CW	5-4-2012	Thu	0029	(JPL)
10779	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //8789	CW	26-4-2012	Thu	1030	(JPL)
10779	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //8789	CW	17-4-2012	Tue	0226	(JPL)
10779	M89	V WITN (x3) DE GNXG (x2) (Cont'd) To daytime freq at 1118z //8789	CW	15-4-2012	Sun	1049	(JPL)
10800	E11	517/00	USB	10-4-2012	Tue	0645	(AB)
10835	S06s	153	USB	25-4-2012	Wed	0530	(HFD)
10871.7	MX	Beacon "D"	CW	23-4-2012	Mon	1653	(AB)
10871.8	MX	Beacon "P"	CW	23-4-2012	Mon	1653	(AB)
10871.8	MX	Beacon "P"	CW	12-4-2012	Thu	1116	(AB)
10871.9	MX	Beacon "S"	CW	23-4-2012	Mon	1653	(AB)
10871.9	MX	Beacon "S"	CW	12-4-2012	Thu	1116	(AB)
10872	MX	Beacon "C"	CW	23-4-2012	Mon	1653	(AB)
10872	MX	Beacon "C"	CW	12-4-2012	Thu	1116	(AB)
10872.1	MX	Beacon "A"	CW	23-4-2012	Mon	1653	(AB)
10872.3	MX	Beacon K. Petropavlovsk.	CW	26-4-2012	Thu	0938	(EW)
10872.4	MX	Beacon "M"	CW	12-4-2012	Thu	1116	(AB)
10872.4	MX	Beacon M. Magadan.	CW	26-4-2012	Thu	0940	(EW)
10943	XPA	msg	MFSK	5-4-2012	Thu	1900	(HFD)
10954	S06	YL/RR "831 831 831 00000"	AM	30-4-2012	Mon	1238	(linkz)
11000	M32a	Russian Navy. "RKZ de RIW" then figure groups	CW	24-4-2012	Tue	1910	(Pat)
11053	M42	Russian Intel.	FSK 200/1000	16-4-2012	Mon	0715	(FMB)
11065	M51	ip	CW	21-4-2012	Sat	0609	(FMB)
11116	M01a	441(x3) 69t11(x2);333 69t68(x2);111 ttt	CW	5-4-2012	Thu	0817	(FMB)
11121	M42	Russian Intel.	FSK 200/1000	2-4-2012	Mon	1700	(FMB)
11121	M42	Russian Intel.	FSK 200/1000	8-4-2012	Sun	1700	(FMB)
11121	M42	Russian Intel.	FSK 200/1000	10-4-2012	Tue	1700	(FMB)
11121	M42	Russian Intel.	FSK 200/1000	4-4-2012	Wed	1700	(FMB)
11122	M42	Russian Intel.	FSK 200/1000	22-4-2012	Sun	1700	(linkz)
11354	M32b	54656 Il-20 radio check with PRIBOJ, NOVATOR	USB	5-4-2012	Thu	0933	(ASch)
11354	M32b	Aircraft 52579 (An-26) flying from Anapa to Ostafyevo (UUMO) wkg with PRIBOJ, KROKET	CW	2-4-2012	Mon	1416	(ASch)
11362	M32c	78834 RA-78834 call to Korsar	USB	6-4-2012	Fri	0721	(ASch)
11408	M32	XXX XXX JUE4 MJUR 74977 021 = DDDDD CMQMX AFIWG XDAG last group ChQWMA = K	CW	13-4-2012	Fri	0848	(JU)
11408	M32	XXX XXX REA4 REA4 17970 solodka 0837 8979	CW	13-4-2012	Fri	0700	(JU)
11408	M32	XXX XXX REA4 REA4 38235 LORNETKA 4430 6376	CW	13-4-2012	Fri	0908	(JU)
11428	M42	Russian Intel.	FSK 200/1000	19-4-2012	Thu	1350	(linkz)
11435	M12	938 1	CW	25-4-2012	Wed	1830	(HFD)
11435	M12	938 1 4628 65 57350 92790 95823 ... 90727 000 000	CW	25-4-2012	Wed	1830	(CG)
11435	M12	938 1 4876 53 27076 65172 97480 ... 80564 000 000	CW	18-4-2012	Wed	1830	(CG)
11435	SK01	RDFT	RDFT	2-4-2012	Mon	0600	(MS)
11442	X--	XPA start tones followed by unid data	USB	6-4-2012	Fri	1625	(Spec)
11442	X--	XPA start tones followed by unid data	USB	9-4-2012	Mon	1625	(Spec)
11442	X--	XPA start tones followed by unid data	USB	10-4-2012	Tue	1625	(Spec)
11460	S06s	831 925 5 35884 10092 55671 16752 45718 925 5 00000	USB	16-4-2012	Mon	1210	(AB)
11482	M42	Russian Intel.	Baudot 200/500	21-4-2012	Sat	2010	(FMB)
11561	M12	546 1	CW	9-4-2012	Mon	1620	(HFD)
11565	M12	ip	CW	9-4-2012	Mon	1623	(FMB)
11566	M12	546 1 4995 90 65215 33397 25888 ... 02974 000 000	CW	23-4-2012	Mon	1620	(CG)
11579	M12	845 1 103 187 23311 95011 44432 ... 51772 000 000	CW	25-4-2012	Wed	1910	(CG)
11579	M12	845 1 103 187 23311 95011 44432 ... 51772 000 000 rpt of 2012-04-25 1830 Sked	CW	29-4-2012	Sun	1910	(CG)
11579	M12	845 1 163 231 58171 46380 79970 ... 47176 000 000	CW	22-4-2012	Sun	1910	(CG)
11579	M12	Russian Intel... 94387 000 000	CW	15-4-2012	Sun	1915	(CG)

frequency	enigma	remarks	mode	date	day	UTC	contributor
11611	M42	Russian Intel.	FSK 200/1000	8-4-2012	Sun	1600	(FMB)
11612	M42	Russian Intel.	FSK 200/1000	4-4-2012	Wed	1600	(FMB)
11632	M32c	76599 RA-76599	USB	6-4-2012	Fri	0831	(ASch)
11635	S06s	352 904 6 64877 42500 81125 47646 79398 77705 904 6 00000	USB	3-4-2012	Tue	0800	(AB)
11635	S06s	352 904 6 64877 42500 81125 47646 79398 77705 904 6 00000	USB	10-4-2012	Tue	0800	(AB)
11635	S06s	352 948 6 48705 43951 66535 50746 43485 75058 948 6 00000	USB	24-4-2012	Tue	0800	(AB)
11830	S06s	745 218 6 82424 88878 19755 43455 64174 14553 218 6 00000	USB	11-4-2012	Wed	0840	(AB)
11830	S06s	745 298 6 94289 15244 21541 56567 48850 68867 298 6 00000	USB	25-4-2012	Wed	0840	(AB)
11831	S06s	745 289 6	USB	25-4-2012	Wed	0840	(FMB)
12108	E07	172 0	AM	9-4-2012	Mon	1900	(HFD)
12108	E07	172 1 957 100 46104 36468 52392 33974 000 000	AM	30-4-2012	Mon	1900	(Spec)
12108	E07	172 1 957 100 46104 36468 26818 ... 33974 000 000	AM	30-4-2012	Mon	1900	(CG)
12108	E07	172 172 172 000	AM	23-4-2012	Mon	1900	(tING)
12108	E07	172 172 172 1 957 100 957 100 etc.	AM	30-4-2012	Mon	1900	(tING)
12123	E07	171 1-416/121= 71036	AM	12-4-2012	Thu	1700	(HFD)
12140	S06s	516 439 7 14225 97567 66668 79045 15229 11050 58821 439 7 00000	USB	20-4-2012	Fri	0930	(AB/linkz)
12140	S06s	516 840 7 91009 87653 46372 98987 67335 23568 12453 840 7 000000	USB	6-4-2012	Fri	0930	(AB)
12140	S06s	516 840 7 91009 87653 46372 98987 67335 23568 12453 840 7 000000	USB	13-4-2012	Fri	0930	(AB)
12161	M12	id:"546 546 546 1" - end:1605 "000 000"	CW	9-4-2012	Mon	1600	(SWL1409)
12161	M12	id:"546 546 546 1" - end:1605 "000 000"	CW	9-4-2012	Mon	1600	(SWL1409)
12162	M12	546 1	CW	2-4-2012	Mon	1600	(FMB)
12162	M12	546 1	CW	9-4-2012	Mon	1600	(HFD)
12162	M12	546 1 4995 90 65215 33397 25888 ... 02974 000 000	CW	23-4-2012	Mon	1600	(CG)
12162	M12	546 1 5643 96 57854 41419 68011 ... 43401 000 000 (599+30 Echo)	CW	16-4-2012	Mon	0016	(CG)
12162	M12	546 1 8526 84 34388 33670 34022 ... 77752 000 000	CW	30-4-2012	Mon	1600	(CG)
12164	M12	991 1 605 133 32179 41915 79858 ... 21809 000 000 (weak)	CW	22-4-2012	Sun	1340	(CG)
12180	M08a	Russian Intel..... (Stn up late at 1906z and IP. Goes down at 1908z and changes	MCW	17-4-2012	Tue	1906	(MS)
12180	M08a	Russian Intel..... 81242 (Came in late and missed first and third callup.	MCW	3-4-2012	Tue	1904	(MS)
12180	V02a	A (Station changed from M08a to V02a here. Xmsn already in progress	AM	3-4-2012	Tue	1925	(MS)
12180	V02a	A 18202 32212 27841	AM	19-4-2012	Thu	1900	(MS)
12180	V08a	A 04111 14651	AM	17-4-2012	Tue	1908	(MS)
12186	M42	Russian Intel.	FSK 200/1000	21-4-2012	Sat	0810	(FMB)
12187	M42	Russian Intel.	FSK 200/1000	25-4-2012	Wed	0820	(FMB)
12192	X--	XPA start tones followed by unid data	USB	10-4-2012	Tue	1720	(Spec)
12198	M42	Russian Intel.	FSK 200/1000	21-4-2012	Sat	1110	(FMB)
12206	M42	Russian Intel.	Baudot 200/500	5-4-2012	Thu	1015	(FMB)
12206	M42	Russian Intel.	Baudot 200/500	25-4-2012	Wed	1015	(FMB)
12217	M12	991 1	CW	4-4-2012	Wed	1520	(FMB)
12218	M12	991 (rptd) 1 605 133 605 133 32189 41115 79858 ... 5844 61367 21809 0 0 0 0 0.	CW	25-4-2012	Wed	1526	(MPJ)
12218	M12	991 1	CW	12-4-2012	Thu	1520	(HFD)
12218	M12	991 1 605 133 32189 41115 79858 ... 21809 000 000 (rpt of 1300 2012-04-23 Sked)	CW	25-4-2012	Wed	1520	(CG)
12218	M12	991 991 991 1	CW	25-4-2012	Wed	1520	(AB)
12220	M42	Russian Intel.	FSK 200/1000	28-4-2012	Sat	0930	(linkz)
12229	X--	XPA start tones followed by unid data	USB	6-4-2012	Fri	1525	(Spec)
12229	X--	XPA start tones followed by unid data	USB	9-4-2012	Mon	1525	(Spec)
12229	X--	XPA start tones followed by unid data	USB	10-4-2012	Tue	1525	(Spec)
12464	M32a	RCV DE RMCW QSA ? QTC K 470 19 19 1900 470 SML FOR RJE73 RJH45 BT 19151 99390 10145 42597 82804 10164 40037 57010 87070 RMCW RPT 19015 K	CW	19-4-2012	Thu	1504	(Tom)

frequency	enigma	remarks	mode	date	day	UTC	contributor
12464	M32a	RMCW: Russian naval vessel qtc to RCV 690 17 16 1302 690 = sml for rje73 rjh45 = 16091 99386 10252 42998 21910 10164 40111 52010 80002 22253 00154 20403 88000 16013 = + rmcw k	CW	16-4-2012	Mon	0904	(WP3)
12464	M32a	RMCW: Russian naval vessel qtc to rcv rmcw 618 16 16 1900 618 = sml for rje73 rjh45 = 16151 99378 10245 42897 10180 40119 53012 8553/ 22253 00164 20503 88000 16012 = + rmcw	CW	16-4-2012	Mon	1510	(WP3)
12464	M32a	RMCW: Russian naval vessel tfc to rcv rmcw 511 19 17 1310 511 = sml for rje73 rjh45 = 99363 10221 42697 81811 10182 40079 56006 8751/ 22262 00170 20503 315// 40604 88000 17015 = + rmcw k	CW	17-4-2012	Tue	0915	(WP3)
12520	M01?	463 463 463 = 85TG8 86298 etc = 423 423 3T 3T T T T	CW	29-4-2012	Sun	1510	(EBR)
12736	M32	XXX XXX JUE4 MJUR 74977 021 = DDDDD CMQMX AFIWG XDAG last group ChQWMA = K	CW	13-4-2012	Fri	0848	(JU)
12736	M32	XXX XXX REA4 REA4 17970 solodka 0837 8979	CW	13-4-2012	Fri	0700	(JU)
12736	M32	XXX XXX REA4 REA4 38235 LORNETKA 4430 6376	CW	13-4-2012	Fri	0908	(JU)
12832	M32	Russian Mil. XXX XXX RMHB RMHB 01127 44364 HLOOROFOS 7036 6713	CW	21-4-2012	Sat	0828	(JU)
12832	M32	Russian Mil. XXX XXX RMHB RMHB 60855 40931 EKSPRESSIYA 7784 8111	CW	21-4-2012	Sat	0821	(JU)
12952	S06s	167 982 5 52411 73692 24015 89986 10351 982 5 00000	USB	5-4-2012	Thu	0900	(AB)
12952	S06s	167-982/5=52411	USB	5-4-2012	Thu	0900	(HFD)
13044	M32a	Russian Navy "RHC84 de RCV"	CW	1-4-2012	Sun	1019	(VL)
13105	M32	Russian Mil. Radio check "2KZZ DE KJ5K K" "R K", "KBP7 DE KJ5K CW K R K", "ZCBC DE KJ5K K"	CW	30-4-2012	Mon	1530	(MOR)
13365	S06s	729 418 5 62229 91489 77614 84292 04768 418 5 00000	USB	11-4-2012	Wed	1000	(AB)
13365	S06s	729 463 5 76043 39221 89067 65547 11043 463 5 00000	USB	18-4-2012	Wed	1000	(AB)
13365	S06s	729 463 5 76043 39221 89067 65547 11043 463 5 00000	USB	25-4-2012	Wed	1000	(AB)
13365	S06s	729 463 5 76043 39221 89067 65547 11043 463 5 00000	USB	25-4-2012	Wed	1000	(AB)
13375	E11a	981/10 Attention ... 23890 85084 53... 38328 46238 out	USB	24-4-2012	Tue	1400	(AB)
13375	E11a	981/10 Attention 39698 29571 48740 72146 23849 93190 39918 85034 05302 04915 Attention, rpt msg, out	USB	17-4-2012	Tue	1400	(AB)
13375	E11a	981/10 Attention 39698 29571 48740 72146 23849 93190 39918 85034 05302 24915 Out	USB	17-4-2012	Tue	1400	(Spec)
13375	E11a	981/10 Attention 50426 42791 86529 58411 51034 29652 28220 66476 36590 51426 Out	USB	10-4-2012	Tue	1400	(Spec)
13375	E11a	981/10 Attention 51703 84854 20199 79234 33048 98205 77551 24593 26370 13896 Out	USB	14-4-2012	Sat	1400	(Spec)
13375	E11a	981/10 Attention 89667 65677 64450 71114 79440 45492 70872 43309 93425 08284 Out	USB	6-4-2012	Fri	1400	(Spec)
13380	M08a	30431 82822 58782	MCW	12-4-2012	Thu	2000	(MS)
13380	V02a	A 18202 32212 27841	AM	19-4-2012	Thu	2000	(MS)
13380	V02a	A 26141 01051 21431	AM	5-4-2012	Thu	2000	(MS)
13380	V02a	A 74451 63861 45651	AM	17-4-2012	Tue	2000	(MS)
13396	M42	Russian Intel.	FSK 200/1000	21-4-2012	Sat	1620	(FMB)
13439	M42	Russian Intel.	FSK 200/1000	19-4-2012	Thu	1340	(linkz)
13456	X--	XPA start tones followed by unid data	USB	6-4-2012	Fri	1425	(Spec)
13456	X--	XPA start tones followed by unid data	USB	9-4-2012	Mon	1425	(Spec)
13456	X--	XPA start tones followed by unid data	USB	10-4-2012	Tue	1425	(Spec)
13479	M12	845 1 103 187 23311 95011 44432 ... 51772 000 000	CW	25-4-2012	Wed	1850	(CG)
13479	M12	845 1 103 187 23311 95011 44432 ... 51772 000 000 rpt of 2012-04-25 1830 Sked	CW	29-4-2012	Sun	1850	(CG)
13479	M12	845 1 163 231 58171 46380 79970 ... 47176 000 000	CW	22-4-2012	Sun	1850	(CG)
13479	M12	ip	CW	8-4-2012	Sun	1852	(FMB)
13481	X06	Mazielka. Sequence: 452163	USB	1-4-2012	Sun	1510	(PPA)
13515	S06s	516 439 7 14225 97567 66668 79045 15229 11050 58821 439 7 00000	USB	20-4-2012	Fri	0940	(AB/linkz)
13515	S06s	516 840 7 91009 87653 46372 98987 67335 23568 12453 840 7 000000	USB	6-4-2012	Fri	0940	(AB)
13515	S06s	516 840 7 91009 87653 46372 98987 67335 23568 12453 840 7	USB	13-4-2012	Fri	0940	(AB)

frequency	enigma	remarks	mode	date	day	UTC	contributor
		000000					
13527.7	MX	Beacon "D"	CW	23-4-2012	Mon	1653	(AB)
13527.7	MX	Beacon "D"	CW	12-4-2012	Thu	1116	(AB)
13527.7	MX	D: MX Beacon, Odessa/Seva	CW	23-4-2012	Mon	1300	(MPJ)
13527.8	MX	Beacon "P"	CW	23-4-2012	Mon	1653	(AB)
13527.8	MX	Beacon "P"	CW	12-4-2012	Thu	1116	(AB)
13527.8	MX	P: MX Beacon, Kaliningrad	CW	23-4-2012	Mon	1301	(MPJ)
13527.9	MX	Beacon "S"	CW	12-4-2012	Thu	1116	(AB)
13528	MX	Beacon "C"	CW	23-4-2012	Mon	1653	(AB)
13528	MX	Beacon "C"	CW	12-4-2012	Thu	1116	(AB)
13528.1	MX	Beacon "A"	CW	23-4-2012	Mon	1653	(AB)
13528.3	MX	K: MX Beacon, Petropavlovsk/Kamchatskiy	CW	23-4-2012	Mon	1302	(MPJ)
13528.4	MX	Beacon "M"	CW	12-4-2012	Thu	1116	(AB)
13528.4	MX	Beacon M. Magadan.	CW	26-4-2012	Thu	0939	(EW)
13528.4	MX	M: MX Beacon, Magadan	CW	23-4-2012	Mon	1303	(MPJ)
13528á	MX	Beacon "M"	CW	23-4-2012	Mon	2213	(MAUK)
13530	E06	951 674 102 67813 89293 34882 ... 674 102 00000	USB	6-4-2012	Fri	0500	(AB)
13530	E06	951-674/102=67813	AM	5-4-2012	Thu	0500	(HFD)
13548	X--	XPA start tones followed by unid data	USB	10-4-2012	Tue	1325	(Spec)
13565	S06s	167	USB	5-4-2012	Thu	0910	(HFD)
13565	S06s	167 982 5 52411 73692 24015 89986 10351 982 5 00000	USB	5-4-2012	Thu	0910	(AB)
13876	X--	XPA start tones followed by unid data	USB	6-4-2012	Fri	1620	(Spec)
13876	X--	XPA start tones followed by unid data	USB	9-4-2012	Mon	1620	(Spec)
13876	X--	XPA start tones followed by unid data	USB	10-4-2012	Tue	1620	(Spec)
13917	M12	ip	CW	4-4-2012	Wed	1504	(FMB)
13918	M12	991 1	CW	12-4-2012	Thu	1500	(HFD)
13918	M12	991 1 605 133 32189 41115 79858 ... 21809 000 000 (rpt of 1300 2012-04-23 Sked)	CW	25-4-2012	Wed	1500	(CG)
13918	M12	991 991 991 1	CW	25-4-2012	Wed	1500	(AB)
14190	E06	951 674 102 67813 89293 34882 ... 674 102 00000	USB	6-4-2012	Fri	0600	(AB)
14260	E17z	674 539 8 82897 50755 43552 67353 58438 35553 25245 89664 539 8 00000	USB	26-4-2012	Thu	0800	(AB)
14300	E--	Numbers station (5 digit groups, English female voice)	AM	5-3-2012		2244	(IARUMS)
14348.6	DPRK	DPRK embassy Moscow	DPRK-ARQ 1200	29-3-2012		1117	(IARUMS)
14352	E07	621 1 7601 30 36143 07505 47665 86210 000 000	AM	5-4-2012	Thu	1520	(Spec)
14353	E07	callup 831, ID 8776, 27 groups	USB	1-4-2012	Sun	1520	(To-ken/Avare)
14353	X--	XPA start tones followed by unid data	USB	6-4-2012	Fri	1520	(Spec)
14353	X--	XPA start tones followed by unid data	USB	9-4-2012	Mon	1520	(Spec)
14353	X--	XPA start tones followed by unid data	USB	3-4-2012	Tue	1520	(Spec)
14353	X--	XPA start tones followed by unid data	USB	10-4-2012	Tue	1520	(Spec)
14353	X--	XPA start tones followed by unid data	USB	4-4-2012	Wed	1520	(Spec)
14366	X--	XPA start tones followed by unid data	USB	10-4-2012	Tue	1320	(Spec)
14369	X--	XPA start tones followed by unid data	USB	10-4-2012	Tue	1710	(Spec)
14394	M42	Russian Intel.	FSK 200/1000	21-4-2012	Sat	1100	(FMB)
14472	E07		USB	5-4-2012	Thu	1420	(CS)
14472	X--	XPA start tones followed by unid data	USB	6-4-2012	Fri	1420	(Spec)
14472	X--	XPA start tones followed by unid data	USB	9-4-2012	Mon	1420	(Spec)
14472	X--	XPA start tones followed by unid data	USB	10-4-2012	Tue	1420	(Spec)
14479	M41	Russian Intel.	FSK 200/1000	21-4-2012	Sat	0800	(FMB)
14505	S06s	729 418 5 62229 91489 77614 84292 04768 418 5 00000	USB	11-4-2012	Wed	1010	(AB)
14505	S06s	729 463 5 76043 39221 89067 65547 11043 463 5 00000	USB	18-4-2012	Wed	1010	(AB)
14505	S06s	729 463 5 76043 39221 89067 65547 11043 463 5 00000	USB	25-4-2012	Wed	1010	(AB)
14505	S06s	729 463 5 76043 39221 89067 65547 11043 463 5 00000	USB	25-4-2012	Wed	1010	(AB)
14547	X06	Mazielka. Sequence: 645321	USB	29-4-2012	Sun	1003	(linkz)
14551	M42	Russian Intel. Repeat of earlier message on 16126 kHz	FSK 200/1000	21-4-2012	Sat	1220	(MCO)

frequency	enigma	remarks	mode	date	day	UTC	contributor
14556	M32a	Russian Navy "RGR35 de RIW"	CW	23-4-2012	Mon	0520	(Pat)
14575	E11	335/00	USB	26-4-2012	Thu	0745	(AB)
14575	E11a	337/32 33247 45407 57049 30993 30003 09990 03590 79197 85026 92336 44202 93900 23029 09420 36399 74626 16166 07192 19274 33782 17881 33085 30113 28466 52535 87156 85855 09925 75239 44019 34785 71613 rpt out	USB	12-4-2012	Thu	0745	(Avare)
14613	X--	XPA start tones followed by unid data	USB	10-4-2012	Tue	1225	(Spec)
14805	M42	Russian Intel.	FSK 200/1000	8-4-2012	Sun	1550	(FMB)
14824	X06	Mazialka. Sequence: 625413	USB	20-4-2012	Fri	1021	(linkz)
14828	XPA2	00969 00057 12276 49939 81212 ... 66056 (decoded by Rivet build 20)	USB	28-4-2012	Sat	1940	(CG)
14828	XPA2	06574 00001 00000 10140 (599+30)	USB	21-4-2012	Sat	1940	(CG)
14878	M12	845 1	CW	8-4-2012	Sun	1840	(FMB)
14879	M12	845 1 103 187 23311 95011 44432 ... 51772 000 000	CW	25-4-2012	Wed	1830	(CG)
14879	M12	845 1 103 187 23311 95011 44432 ... 51772 000 000 rpt of 2012-04-25 1830 Sked TX	CW	29-4-2012	Sun	1830	(CG)
14879	M12	845 1 163 231 58171 46380 79970 ... 47176 000 000	CW	22-4-2012	Sun	1830	(CG)
14910	E06	951	AM	5-4-2012	Thu	0600	(HFD)
15809	X--	XPA start tones followed by unid data	USB	10-4-2012	Tue	1705	(Spec)
15823	X--	XPA start tones followed by unid data	USB	6-4-2012	Fri	1615	(Spec)
15823	X--	XPA start tones followed by unid data	USB	9-4-2012	Mon	1615	(Spec)
15823	X--	XPA start tones followed by unid data	USB	10-4-2012	Tue	1615	(Spec)
15841	X--	XPA start tones followed by unid data	USB	6-4-2012	Fri	1515	(Spec)
15841	X--	XPA start tones followed by unid data	USB	9-4-2012	Mon	1515	(Spec)
15841	X--	XPA start tones followed by unid data	USB	10-4-2012	Tue	1515	(Spec)
15863.5	M42	Russian Gov. sending encrypted messages.	CROWD-36	20-4-2012	Fri	1009	(EW)
15869	X--	XPA start tones followed by unid data	USB	6-4-2012	Fri	1415	(Spec)
15869	X--	XPA start tones followed by unid data	USB	9-4-2012	Mon	1415	(Spec)
15869	X--	XPA start tones followed by unid data	USB	10-4-2012	Tue	1415	(Spec)
15879	X--	XPA start tones followed by unid data	USB	10-4-2012	Tue	1220	(Spec)
15882	X06	ip	USB	25-4-2012	Wed	1042	(FMB)
15915	E11	718/00	USB	12-4-2012	Thu	1155	(AB)
15915	E11	718/00	USB	25-4-2012	Wed	1155	(AB)
15951	X--	XPA start tones followed by unid data	USB	10-4-2012	Tue	1315	(Spec)
16061	XPA2	polytone station	MFSK	20-4-2012	Fri	1720	(linkz)
16103	X06	Mazielka. Sequence: 645321	USB	29-4-2012	Sun	0956	(linkz)
16114	XPA2	00969 00057 12276 49939 81212 ... 66056 (decoded by Rivet build 20)	USB	28-4-2012	Sat	1920	(CG)
16117	X--	XPA start tones followed by unid data	USB	6-4-2012	Fri	1610	(Spec)
16117	X--	XPA start tones followed by unid data	USB	9-4-2012	Mon	1610	(Spec)
16117	X--	XPA start tones followed by unid data	USB	10-4-2012	Tue	1610	(Spec)
16159	M42	Russian Intel. Repeat of earlier message on 18206 kHz	FSK 200/1000	21-4-2012	Sat	1216	(MCO)
16264	E07	621 1 7601 30 36143 07505 47665 86210 000 000	AM	5-4-2012	Thu	1510	(Spec)
16264	E07	callup 831, ID 8776, 27 groups	USB	1-4-2012	Sun	1510	(Token)
16264	E07	Mixing with X06	USB	1-4-2012	Sun	1510	(PPA)
16264	X--	New XP-variant	USB	2-4-2012	Mon	1510	(Token)
16264	X--	XPA start tones followed by unid data	USB	6-4-2012	Fri	1510	(Spec)
16264	X--	XPA start tones followed by unid data	USB	9-4-2012	Mon	1510	(Spec)
16264	X--	XPA start tones followed by unid data	USB	3-4-2012	Tue	1510	(Spec)
16264	X--	XPA start tones followed by unid data	USB	10-4-2012	Tue	1510	(Spec)
16264	X--	XPA start tones followed by unid data	USB	4-4-2012	Wed	1510	(Spec)
16264	X06	Mazielka. Sequence: 452163 mixing with E07	USB	1-4-2012	Sun	1510	(PPA)
16281	XPA2	polytone station	MFSK	19-4-2012	Thu	1520	(linkz)
16320	X06	Mazielka. Sequence: 241563	USB	20-4-2012	Fri	0928	(linkz)
16331.7	MX	Beacon "D"	CW	23-4-2012	Mon	1653	(AB)
16331.7	MX	Beacon "D"	CW	12-4-2012	Thu	1116	(AB)
16331.9	MX	Beacon "S"	CW	23-4-2012	Mon	1653	(AB)

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16331.9	MX	Beacon "S"	CW	12-4-2012	Thu	1116	(AB)
16331.9	MX	S: Beacon Severomorsk	CW	14-4-2012	Sat	1205	(MPJ)
16332	E07		USB	5-4-2012	Thu	1410	(CS)
16332	E07	callup 253, ID 8776, 27 groups	USB	1-4-2012	Sun	1410	(Avare)
16332	MX	Beacon "C"	CW	23-4-2012	Mon	1653	(AB)
16332	MX	Beacon "C"	CW	12-4-2012	Thu	1116	(AB)
16332	X--	Start tones. No traffic	USB	9-4-2012	Mon	1410	(Spec)
16332	X--	XPA start tones followed by unid data	USB	6-4-2012	Fri	1410	(Spec)
16332	X--	XPA start tones followed by unid data	USB	3-4-2012	Tue	1410	(Spec)
16332	X--	XPA start tones followed by unid data	USB	10-4-2012	Tue	1410	(Spec)
16332	X--	XPA start tones followed by unid data	USB	4-4-2012	Wed	1410	(Spec)
16332.2	MX	Beacon F. Vladivostok.	CW	26-4-2012	Thu	0943	(EW)
16332.3	MX	Beacon "K"	CW	12-4-2012	Thu	1203	(AB-HK)
16332.3	MX	K: Beacon Petropavlovsk/Kamchatskiy	CW	14-4-2012	Sat	1205	(MPJ)
16332.4	MX	Beacon "M"	CW	12-4-2012	Thu	1203	(AB-HK)
16343	X--	XPA start tones followed by unid data	USB	10-4-2012	Tue	1700	(Spec)
16400	EV01?	in progress	AM	14-4-2012	Sat	0240	(Daunt)
17412	XPA2	polytone station	MFSK	19-4-2012	Thu	1410	(linkz)
17423	X--	XPA start tones followed by unid data	USB	6-4-2012	Fri	1505	(Spec)
17423	X--	XPA start tones followed by unid data	USB	9-4-2012	Mon	1505	(Spec)
17423	X--	XPA start tones followed by unid data	USB	10-4-2012	Tue	1505	(Spec)
17434	X--	Start tones. QRT In Traffic	USB	10-4-2012	Tue	1215	(Spec)
17441	XPA2	polytone station	MFSK	20-4-2012	Fri	1710	(linkz)
17448	X--	XPA start tones followed by unid data	USB	6-4-2012	Fri	1605	(Spec)
17448	X--	XPA start tones followed by unid data	USB	9-4-2012	Mon	1605	(Spec)
17448	X--	XPA start tones followed by unid data	USB	10-4-2012	Tue	1605	(Spec)
17468	M32a	RIW: Moscow Naval Radio 1520 CW XXX XXX XXX RIW BRATUÍADA 99681 32531 01300 00111 98032 25201 00107 00020 00808 11310 K. Then calls RHL80 without apparent suc- cess.	CW	25-4-2012	Wed	1520	(MPJ)
17468	M32a	RIW: Moscow Naval Radio calls RHL80 without success.	CW	25-4-2012	Wed	1438	(MPJ)
17468	M32a	RIW: Moscow Naval Radio finally contacts RHL80: RHL80 de RIW QYT4 QWH 8678/9700 QSX 8330/12398 FM RAA K.	CW	25-4-2012	Wed	1456	(MPJ)
17468	X--	XPA start tones followed by unid data	USB	10-4-2012	Tue	1310	(Spec)
17477	X--	XPA start tones followed by unid data	USB	6-4-2012	Fri	1405	(Spec)
17477	X--	XPA start tones followed by unid data	USB	9-4-2012	Mon	1405	(Spec)
17477	X--	XPA start tones followed by unid data	USB	10-4-2012	Tue	1405	(Spec)
18172	X--	XPA start tones followed by unid data	USB	6-4-2012	Fri	1600	(Spec)
18172	X--	XPA start tones followed by unid data	USB	9-4-2012	Mon	1600	(Spec)
18172	X--	XPA start tones followed by unid data	USB	10-4-2012	Tue	1600	(Spec)
18332	X--	XPA start tones followed by unid data	USB	6-4-2012	Fri	1500	(Spec)
18332	X--	XPA start tones followed by unid data	USB	9-4-2012	Mon	1500	(Spec)
18332	X--	XPA start tones followed by unid data	USB	10-4-2012	Tue	1500	(Spec)
18559	X--	XPA start tones followed by unid data	USB	6-4-2012	Fri	1400	(Spec)
18559	X--	XPA start tones followed by unid data	USB	9-4-2012	Mon	1400	(Spec)
18559	X--	XPA start tones followed by unid data	USB	10-4-2012	Tue	1400	(Spec)
18571	X--	XPA start tones followed by unid data	USB	10-4-2012	Tue	1210	(Spec)
18713	X--	XPA start tones followed by unid data	USB	10-4-2012	Tue	1305	(Spec)
18767	XPA2	polytone station	MFSK	19-4-2012	Thu	1500	(linkz)
19348	X--	Scheduled At 19438 kHz. Error?	USB	10-4-2012		1300	(Spec)
19399	X--	XPA start tones followed by unid data	USB	10-4-2012	Tue	1205	(Spec)
19434.7	EGY	Egyptian Embassy Conakry with hex offline crypto to "71" (Egyptian Military Intelligence, Cairo)	SITOR-A 100bd/170/I	28-4-2012	Sat	1526	(MCO)
20047.7	MX	Beacon "D"	CW	12-4-2012	Thu	1116	(AB)
20047.9	MX	Beacon "S"	CW	12-4-2012	Thu	1116	(AB)
20048	MX	Beacon "C"	CW	12-4-2012	Thu	1116	(AB)
20048	MX	Beacon "C" Moscow	CW	1-4-2012	Sun	1019	(MPJ)

frequency	enigma	remarks	mode	date	day	UTC	contributor
20126.7	EGY	MFA Cairo Egypt, messages in Arabic to unidentified embassy.	SITOR-A 100//170	20-4-2012	Fri	0755	(EW)
20146	X--	Start Tones. No traffic	USB	10-4-2012	Tue	1200	(Spec)
20177	M42	Russian Gov. sending encrypted messages.	CROWD-36	20-4-2012	Fri	0953	(EW)
21003.5	DPRK	DPRK Diplomatic station	DPRK-ARQ 600/600	20-4-2012	Fri	1327	(MCO)
22673.5	DPRK	MFA Pyongyang. All encrypted text.	DPRK-ARQ 600/600	27-4-2012	Fri	0407	(EW)
23473	M42	Russian Gov. sending encrypted messages.	CROWD-36	20-4-2012	Fri	0942	(EW)

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AB-GRC	Ary Boender via remote rx Greece	JU	Jay Updike, W. Europe
AB-SVK	Ary Boender via remote rx Slovakia	linkz	Linkz, S.E. France
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86 48932 78987 32123 49817 26346 81267 45491 87364 81
221 75654 55656 12737 72727 72727 91918 49470 67867 7
229 87629 37677 32612 53498 71296 28756 18276 98716 81
209 76329 74698 76857 98678 27601 56781 57681 73648 81
201 87364 87365 96718 27638 75673 84769 28743 98127 81
8 63298 75698 274 376 81273 98615 81
67 87432 74328 786 367 86786 43286 43286 81
57 68768 68763 382 182 48273 48768 43286 81
206 98432 32432 867 786 43286 43286 43286 81
743 85743 86743 39867 32867 86743 43286 43286 43243 86
711 65743 86743 86743 86743 86743 86743 86743 86743 86
43 48798 98754 98754 98754 98754 98667 67543 67984 81
76 87698 69876 87698 69876 87612 12341 34867 86798 65
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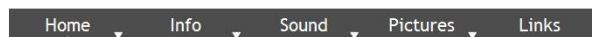
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HF Propagation	
Apr 14 0905 UTC	
Solar Flux:	98 ~
A Index:	19 ~
K Index:	1 ↓
Sunspots:	50
Forecast:	Stable
Conditions	
< 10MHz:	Good
10-20MHz:	Good
20-30MHz:	Normal

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