

670	27364	92836	89428	61268	74982	36498	32764	81276	81
986	40932	70987	32123	49817	26346	81287	65491	87364	81
721	75654	55656	12737	72727	72727	91918	63473	67867	76
723	87629	37677	32612	53498	71296	28756	18276	98716	87
7269	76329	74698	76857	98670	27601	56701	57601	73648	15
591	87364	87265	96710	27630	12673	84769	28743	98127	59
58	63298	75698	27465	87326	49876	28376	81273	98615	62
667	87432	74328	78674	29867	32867	67867	86786	43286	432
667	68768	68763	34234	34238	68768	62342	48273	48768	234
936	98432	32432	86743	43286	43286	43286	43286	43286	432
743	86743	86743	39867	32867	86743	43286	43286	43243	867
741	86743	86743	86743	86743	86743	86743	86743	86743	435
543	98798	98754	98754	98754	98754	29867	67543	67986	867
76	87698	69876	87698	69876	87612	12341	34867	86798	632
867	43298	65656	56756	56123	32143	14321	32143	14321	321
81	02787	58765	76587	58765	76587	58765	76587	58756	765
75875	36543	54365	36543	54365	36543	54365	36543	54365	543

Numbers & Oddities

a.k.a. The Spooks Newsletter

Edition # 177, June 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>



I have to begin with sad news. Sergey, the creator of the Signals Analyzer had a heart attack and passed away. Sergey was only 50 years old. My condolences go out to Maria and her family. Take care !!

Intelligence news

The *Copenhagen Post* reports the conviction of a Russian spy in Denmark. A Finnish university professor (Timo Kivimäki, 49, a professor of international politics at Copenhagen), has been sentenced on May 31st to five months in prison for spying. According to the press release from the city court in Glostrup, Kivimäki was found guilty of handing over documents, including the CVs of four employees at the Center for Military Studies, to Russian diplomats during his many meetings with them between 2002 and 2010. Kivimäki was also found guilty of attempting to hand over a list of student names along with the CV of the head of the Center for Military Studies. He was found with these documents in his possession when he was arrested in September 2010.

Another spy case was reported by *Associated Press*. AP mentioned that a retired Russian military officer has been convicted in Moscow on charges of spying for the U.S. and sentenced to 12 years in prison. Retired Colonel Vladimir Lazar will be sent to a high-security prison and stripped of his military rank, the FSB said in a statement. Lazar reportedly purchased several computer disks with more than 7,000 images of classified maps of Russia from a collector in 2008 and smuggled them to neighboring Belarus, where he gave them to an alleged American intelligence agent. The FSB said the maps could be used for planning military operations against Russia. Lazar had served with the General Staff of the Russian armed forces in Moscow before his retirement in the early 2000s.

A court in the Ural Mountains city of Yekaterinburg handed an eight-year prison sentence to Alexander Gniteyev, a defense company worker accused of passing information about Russia's latest missile, the Bulava, to a foreign intelligence agency.

The *Indian Express* writes that a powerful Military Intelligence unit of the Indian Army is exposed after a soldier, who has been caught in April, allegedly tried to sell top secret operational information to Pakistan's spy agency ISI. Sources said the soldier was trapped by the Directorate of Revenue Intelligence (DRI) in an elaborate operation that involved a "double agent" and a relative of the soldier in Dubai. A CD, pen drive and highly classified documents were recovered in the operation, sources have confirmed to The Indian Express. The data is still being examined by the Army but it is believed to contain detailed operational plans, information on troop deployments and even conversations between top officers at Army Headquarters.

Finally another Russian spy case reported by *Intelnews.org*

Two Russian professors were convicted on 20 June of handing over to Chinese government agents highly classified technical details about one of Russia's most secretive military projects. Svyatoslav Bobyshev and Yevgeny Afanasyev, both employees of the military-affiliated Baltic State Technological University in St. Petersburg, had been arrested in March 2010 on suspicion of spying for a foreign government. The two have now been sentenced by the St. Petersburg City Court to 12 and 12 ½ years in prison respectively, after having been found guilty of treason. According to the court documents, Bobyshev and Afanasyev traveled to China in 2009, where they passed on to Chinese military intelligence officers highly secret technical details about Russia's R-30 Bulava ballistic missile.

Specifically, the two professors are accused of sharing information relating to Bulava's underwater launch specifications. Additionally, the Russian government prosecutor said that the two were preparing to provide the Chinese with information about two of Russia's land-based missile systems, the Topol-M and Iskander. The R-30 Bulava (the Russian word for "mace") is the name for Moscow's latest-generation submarine-based ballistic missile technology. It is widely considered to be one of the future cornerstones of Russia's nuclear weapons capability, and is thought to be the most expensive weapons project currently being developed in the country. The missile was approved for production last year, and is expected to come to service this coming October, when it will begin to replace Russia's Soviet-era stock of submarine-launched nuclear missiles. The program is strongly linked to the country's Borei-class ballistic-missile-capable nuclear submarines, which are expected to be able to launch the R-30 Bulava while underwater and in motion. Only last month, the Russian government charged an engineer working at a top-secret military facility in the Urals with espionage, accusing him of passing classified information about Russian ballistic missiles to "agents of a foreign government". Neither the name of the engineer nor of the country for which he has been accused of spying have been disclosed.

Intelnews.org and other media also reported another arrest. I don't know why this suddenly became a hot topic again because it is old news. We reported this already in N&O 174 in December 2011.

Authorities in Holland have arrested a Dutch diplomat who is said to have worked for the same Russian intelligence unit that handled a group of Russian sleeper agents captured in the United States in 2010. The 60-year-old diplomat, who has been publicly identified only as Raymond P., was arrested over the weekend in The Hague following an extensive investigation by German counterintelligence. According to German newsmagazine Focus, which first aired the story on Saturday, the diplomat is believed to have given nearly 500 classified documents to Andreas and Heidrun Anschlag, two Russian intelligence officers operating in Germany. The Anschlags, who are married to each other, and are believed to be Mexican-born, were arrested in October of 2011 in the university town of Marburg in central Germany.

VOICE STATIONS



E06

8142/7608 kHz, 09-06 and 10-06, 0030/0130 UTC:
Could this message be the final farewell for 759?

759 814 32
87307 12936 00152 59659 39588 02505 14896 98261 08823 89660
50493 57253 18540 59782 59964 27434 26053 92781 56139 54454
41675 24970 44802 22791 42069 86012 73024 17170 71146 71918
78085 84861
814 32 00000

5731 kHz, 08-06 and 22-06, 2130 UTC:

315 189 15
87967 45342 64542 89675 76854 04532 53421 43234 54657 86732
65478 98075 54356 75643 65465
189 15 00000

8142/7608 kHz, 02-06 and 03-06, 0030/0130 UTC:

759 416 30
81282 03181 77893 54237 58303 57477 08132 63182 11604 65956
56027 08180 54339 19084 72317 09996 00683 14354 52654 62772
75800 24934 74574 87673 27881 78569 85758 42898 21910 45171
416 30 00000



E07 / E07a

13468/12141/10436 kHz, 10-06, 1700/1720/1740 UTC:

414 1 580 38

58687 10543 38557 77931 20480 01689 92314 16601 12926 29569
72742 78298 99286 66033 65637 69636 70508 35928 39435 09990
91244 03034 15423 86394 12897 24804 21508 90071 01903 13742
56663 02592 05681 79929 55754 91865 52468 84117
000 000

E07a: 8173/7473/5773 kHz, 13-06, 2000/2020/2040 UTC:

147 1 30209 207 55

78572 44140 26430 65952 65926 13402 60121 84215 85786 93386
26095 51056 64764 74378 77463 54934 13240 86886 94813 49107
02855 07243 69428 46634 10253 81444 65174 70109 08642 09838
22033 64795 44408 76204 80585 55527 41397 20088 92176 98495
26300 42432 87444 71519 97485 99499 72280 43583 63847 98649
79917 45191 91297 89821 91879
000 000

E07a: 7437/8137/9137 kHz, 14-06, 0430/0450/0510 UTC:

411 1 30209 207 55

78572 44140 26430 65952 65926 13402 60121 84215 85786 93386
26095 51056 64764 74378 77463 54934 13240 86886 94813 49107
02855 07243 69428 46634 10253 81444 65174 70109 08642 09838
22033 64795 44408 76204 80585 55527 41397 20088 92176 98495
26300 42432 87444 71519 97485 99499 72280 43583 63847 98649
79917 45191 91297 89821 91879
000 000

E07a: 8173/7473/5773 kHz, 20-06, 2000/2020/2040 UTC:

147 1 30704 538 77

12210 81091 59779 07174 42412 60082 46623 30222 45906 04138
75869 17605 11041 52019 89082 92905 34810 63544 65837 04682
96652 78311 81891 08498 21528 08360 52539 54420 21303 43559
90592 50572 80471 74685 87241 08467 39139 29334 70327 24315
93592 35295 68516 46874 09665 36697 27653 54199 02077 50010
98241 64691 58628 93607 87556 83438 72126 53340 91579 74757
71328 07992 52499 59871 39442 63329 90974 57428 94169 63774
43956 61291 81089 93475 91788 32068 17664
000 000

E07a: 7437/8137/9137 kHz, 21-06, 0430/0450/0510 UTC:

411 1 30704 538 77

12210 81091 59779 07174 42412 60082 46623 30222 45906 04138
75869 17605 11041 52019 89082 92905 34810 63544 65837 04682
96652 78311 81891 08498 21528 08360 52539 54420 21303 43559
90592 50572 80471 74685 87241 08467 39139 29334 70327 24315
93592 35295 68516 46874 09665 36697 27653 54199 02077 50010
98241 64691 58628 93607 87556 83438 72126 53340 91579 74757
71328 07992 52499 59871 39442 63329 90974 57428 94169 63774
43956 61291 81089 93475 91788 32068 17664
000 000



E11/ E11a

10800/8088 kHz, 11-06 and 14-06, 0450/1730 UTC:

412/34 Attention

90010 27076 34980 00128 89424 34394 70138 40724 20817 00241
88657 49021 79327 03545 36393 79154 45723 76696 50434 07213
52551 15275 01956 69961 09704 60083 54897 47158 77741 86717
50636 06853 99259 51302 Out

13427 kHz, 25-06, 0900 UTC:

533/37 Attention

55362 07162 67971 19456 13086 74163 57933 81906 29209 18764
07117 05996 55051 45062 49680 15354 45631 40553 42954 07747
39360 03404 22832 09553 66297 85117 50199 21050 61068 56311
01187 45465 34282 82759 29699 87354 27719 Out

12924 kHz, 04-06, 0830 UTC:

646/30 Attention

23875 31882 29897 37781 83327 97249 53831 07373 22555 33644
59400 31183 58533 70688 83874 92650 94736 39456 55763 65638
89370 90467 74555 26290 41061 26742 87111 94285 90874 09833
Attention, msg repeated, out

6280 kHz, 04-06, 0820 UTC: 438/00



E17z

Transcripts submitted by Spectre.

12850 kHz, 07-06, 0810 UTC:

674 952 8
82534 02132 90238 84253 75479 07473 29637 26987
952 8 00000

16780 kHz, 07-06, 0800 UTC:

674 952 8
82534 02132 90238 84253 75479 07473 29637 26987
952 8 00000

12850 kHz, 14-06, 0810 UTC:

674 952 8
82534 02132 90238 84253 75479 07473 29637 26987
952 8 00000

16780 kHz, 14-06, 0800 UTC:

674 952 8
82534 02132 90238 84253 75479 07473 29637 26987
952 8 00000

It was unusual to see E17z to send an 8 group message this month.



E25

6140 kHz, 27-05, 0701 UTC:	YL. In progress ... 806 16 806 16 806 16 806 16 806 16 806 16 message message message rebeat rebound rebound EOM
6140 kHz, 27-05, 1039 UTC:	YL. 126 56 message message message rebound rebound
9450 kHz, 28-05, 1205 UTC:	Folklore music
6140 kHz, 30-05, 0823 UTC:	Song "Ahwak"
6140 kHz, 02-06, 0658 UTC:	YL. 804 804 804 804 804 804 804 804 804 804 804 804 804 804 804 804 message message message 5887 7520 9984 7717 0641 8652 8679 6601 4931 2380 7520 6421 rebound rebound rebound 5887 7520 9984 7717 0641 8652 8679 6601 4931 2380 7520 6421 EOM
6140 kHz, 13-06, 0807 UTC:	Transmitter on followed by Muazzine calls and runs for almost 2 minutes. Windows Ding 20 sec after Muazzine ends, then 20 sec thereafter, 3 more Windows Dings. Approx 7+ sec after that, 2 maybe Spider Solitaire "clicks". Message tone 2+ sec @ 0809z. What follows sounds as a live transmission. OM. 11(banging on microphone)6 116 116 116 116 (audio problems) 116 116 116 message message message 81 (audio drops out) 15 (audio normal) 10 (audio drops out) 31 3160 87(some more banging around; studio noises)99 3680 (more banging noise, then some "adjustment" noise, audio returns to "normal" 3909 1039 6712 5122 0391 4729 3967 4337 6021 0828 rebound rebound rebound 8115 1031 3160 8799 3680 3909 1039 6712 5122 0391 4729 3967 4337 6021 0828 EOM EOT (recording on the N&O website)
6140 kHz, 13-06, 0929 UTC:	YL. 333 333 333 333 333 333 333 333 333 333 333 333 333 message message message 4111 6020 7485 1503 7112 5676 7001 2415 9342 2531 6020 rebound rebound rebound 4111 6020 7485 1503 7112 5676 7001 2415 9342 2531 6020 EOM EOT
6140 kHz, 13-06, 1007 UTC:	YL. 570 570 570 570 570 570 570 570 570 570 570 570 570 message message message 2035 6066 8934 5877 9590 1070 0889 1455 3570 5327 5359 rebound rebound rebound 2035 6066 8934 5877 9590 1070 0889 1455 3570 5327 5359 EOM EOT
6140 kHz, 13-06, 1043 UTC:	YL. 128 128 128 128 128 128 128 128 128 128 128 128 128 message message message 5261 8071 6670 7144 6832 1343 1466 2488 4775 4471 4414 3629 1106 4786 6836 8205 6670 rebound rebound rebound 5261 8071 6670 7144 6832 1343 1466 2488 4775 4471 4414 3629 1106 4786 6836 8205 6670 EOM EOT

6140 kHz, 14-06, 0756 UTC:	YL. 116 116 116 116 116 116
6140 kHz, 14-06, 0759 UTC:	YL. 116 116 116 116 1(pause) 16 116 116 116 116 116 116 message message message 8115 1031 3160 8799 3680 3509 1039 6712 5122 0391 4729 3967 4337 6021 0828 rebeat rebeat rebeat 8115 1031 3160 8799 3680 3909 1039 6712 5122 0391 4729 3967 4337 6021 0828 EOM
6140 kHz, 14-06, 0959 UTC:	Unid Arab music. YL. 570 570 570 570 570 570 570 570 570 570 message message message 2035 6066 8935 5877 9590 1070 0889 1455 3570 5327 5359 rebeat rebeat rebeat 2035 6066 8935 5877 9590 1070 0889 1455 3570 5327 5359 EOM
6140 kHz, 14-06, 1112 UTC:	YL. 880 880 880 880 880 880 880 880 880 880 (reverb) 880 880 880 880 880 message message message (reverb) 2420 0295 5191 2954 7563 2774 6716 7091 9126 5599 9908 8289 5642 8532 2420 rebeat rebeat rebeat 2420 0295 5191 2954 7563 2774 6716 7091 9126 5599 9908 8289 5642 (reverb) 8532 2420 EOM EOT
6140 kHz, 15-06, 1111 UTC:	Unid arab music. YL. 880 880 88 (stutter and verb present) 8 8 880 880 880 880 880 (heavy verb and interference, then audio quality drops) 0 880 880 880 880 (audio back to normal, verb still present, then disappears) 880 880 880 880 message message message 2420 0295 5191 2954 7563 2774 6716 7091 9126 5599 9908 8289 5642 8532 2420 rebeat rebeat rebeat 2420 0295 5191 2954 7563 2774 6716 7091 9126 5599 9908 8289 5642 8532 2420 EOM
6140 kHz, 17-06, 0947 UTC:	Music "Entra Omri" YL. 33 350 350 350 350 350 350 350 350 350 350 350 350 350 350 message message message 7010 7120 7001 9141 3579 5275 5236 8189 7241 7120 rebeat rebeat rebeat 7010 7120 7001 9141 3579 5275 5236 8189 7241 7120 EOM
9450 kHz, 17-06, 1228 UTC:	Music "Arouh Le-min" YL. 5555 5 555 555 555 555 555 555 555 555 555 555 555 555 message message message 8090 3170 4012 5728 9985 4930 2311 8333 3170 rebeat rebeat rebeat 8090 3170 4012 5728 9985 4930 2311 8333 3170 EOM EOT
9450 kHz, 18-06, 1230 UTC:	557 8....
6140 kHz, 21-06, 0828 UTC:	YL. 701 701 701 701 701 701 701 701 701 701 701 701 701 701 701 message message message1915 9140 9211 7332 8891 9977 3406 1756 3203 2697 9140 rebeat rebeat rebeat 1915 9140 9211 7332 8891 9977 3406 1756 3203 2697 9140 EOM EOT Music "Ahwak"
6140 kHz, 21-06, 0958 UTC:	YL. 570 575 72 570 575 72 570 575 72 570 575 72 570 575 72 570 575 72 570 575 72 570 575 72 570 575 72 570 575 72 57 57 57 57 57 message message message 2773 6126 6476 3410 2758 5933 1811 8195 7276 4528 6968 0572 4261 6476 rebeat rebeat rebeat 2773 6126 6476 3410 2758 5933 1811 8195 7276 4528 6968 0572 4261 6476 EOM
6140 kHz, 22-06, 0828 UTC:	YL. 701 701 701 701 701 701 701 701 701 701 701 701 701 701 701 message message message 1915 9140 9211 7332 8891 9977 3406 1756 3203 2697 9140 rebeat rebeat rebeat 1915 9140 9211 7332 8891 9977 3406 1756 3203 2697 9140 EOM EOT
6140 kHz, 22-06, 0958 UTC:	YL. 575 73 575 73 575 73 575 73 575 73 575 73 575 73 575 73 575 73 575 73 575 73 575 73 575 73 575 73 message message message rebeat rebeat rebeat EOM EOT
6140 kHz, 23-06, 0703 UTC:	YL. 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 message message message 2566 1031 0620 3243 3651 1653 5968 0285 2388 8874 5254 9275 0620 rebeat rebeat rebeat 2566 1031 0620 3243 3651 1653 5968 02 (msg truncated followed by several Windows dings, spider solitaire clicks, and more Windows sounds)
6140 kHz, 23-06, 0713 UTC:	YL. 804 804 804 804 804 804 804 804 804 804 804 804 804 804 804 message message message 9980 0250 1938 1496 3254 8671 2147 2655 0250 5164 8401 rebeat rebeat rebeat 9980 0250 1938 1496 3254 8671 2147 2655 0250 5164 8401 EOM
9450 kHz, 27-06, 1206 UTC:	280 Rebeat 280 EOM EOT

***G06***

6948 kHz, 04-06, 0800 UTC: 215 215 215 00000
5284 kHz, 11-06, 1700 UTC: 154 154 154 00000
5284 kHz, 11-06, 1704 UTC: Test count

6887 kHz, 14-06 and 28-06, 1830 UTC:

842 408 15
79564 37589 26742 58438 82725 15842 29645 20946
26846 98012 48364 10897 47385 25741 68490
408 15 00000



G11

5815 kHz, 12-06 and 17-06, 1755 UTC:

276/36 Achtung

24579 49597 56465 04250 91768 47052 23853 72850 14367 14797

33947 42933 27380 87195 77440 77212 99395 64911 79315 00149

71372 97743 76996 60986 29544 38652 40152 66241 94323 59997

80995 20998 33655 62783 90912 73590

Ende



S06

10230 kHz, 28-05, 1200 UTC: 831 831 831 00000



S11a

16530 kHz, 28-05, 1015 UTC: 475/00



S21

5373 kHz, 14-06, 1742 UTC:

973 412 30

88038 51758 13267 40607 22152 03092 31484 56070 81385 45351

95545 53974 47344 30761 97201 90782 02367 43511 41863 88485

32567 51428 06005 54554 74257 00100 07244 38411 44361 16744

412 30 000



S28 - The Buzzer

Mode: USB
Frequency: 4625 kHz

Only 5 messages were reported in June. I was unable to tune in myself most of the time. I was lucky enough to catch the messages on the 10th. Avare logged all transmissions and also sent me the S30 and S32 logs.

27-05, 1255 UTC: MDZhB 23 ??? Bandikut 60 21 38 74
10-06, 1250 UTC: MDZhB 89 520 MAMONTOVYIJ 75 59 16 77
10-06, 1315 UTC: MDZhB 68 634 SAMOKRUTIT 05 57 83 76
10-06, 1322 UTC: MDZhB 00 799 SAMOVARSHCHIK 25 27 75 08
10-06, 1333 UTC: MDZhB 60 616 ZAMETKA 55 33



S30 - The Pip

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

27-06, 1510 UTC: 8S1Shch 50 765 ATTYA 75 34 83 32 Priyom



S32 - Squeaky Wheel

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

27-06, 1515 UTC: Al'fa-45 21 487 BELANDE 37 21 27 04 Vremya



V13 - New Star Broadcasting Station

星星廣播電台 Xīngxīng guǎngbò diàntái

Daily transmissions on 11430 kHz at 0500 and 0600 UTC, 9276 kHz at 0700 and 0800 UTC and on 11430 kHz at 1200 and 1300 UTC.

Station #3 transmits at 0700 and 0800 UTC, all other transmissions come from station #4.



V16

Chinese Air Defense

The station appears to have fixed schedules. Below several reports submitted by Token with additional comments from Westli and Spectre. Note that V16 and V25 are probably the same station. V16 = null message transmissions and V25 = transmissions with messages.

The digital mode that is used since mid June is a 4-FSK system that belongs to the Chinese Air Defense forces: 200 Bd 4-FSK with a tone spacing of 400 Hz between each tone.

In N&O #55, November 2002 I reported a signal that is also linked to the Chinese Air Defense forces. I wonder if the current 200bd version is an update of the 2002 signal.

Frequencies: 3771.5//10096.5//14316.5 kHz.

Occasional hand keyed morse messages. Continuous CW pulses frequently interrupted by periods UNID mode FSK bursts. The data mode is the same as that used by Chinese Air Defense (4FSK, 100 baud, 400 Hz shift, ACF=0).

The June recordings are available from the N&O website.

11323 kHz, 1400 UTC, 30-05: Null message
11147 kHz, 1359 UTC, 01-06: YL/CC, null message
11147 kHz, 1409 UTC, 01-06: YL/CC, null message
11147 kHz, 1419 UTC, 01-06: YL/CC, null message
11493 kHz, 1359 UTC, 04-06: Null message
11493 kHz, 1409 UTC, 04-06: Null message
11493 kHz, 1418 UTC, 04-06: Null message
11323 kHz, 1358 UTC, 06-06: Switching error. A broadcasting station was heard during the V16 time slot
11323 kHz, 1408 UTC, 06-06: Switching error. A broadcasting station was heard during the V16 time slot
11323 kHz, 1418 UTC, 06-06: Switching error. A broadcasting station was heard during the V16 time slot
11323 kHz, 1400 UTC, 20-06: 2 Data mode transmissions
11323 kHz, 1410 UTC, 20-06: 2 Data mode transmissions
11323 kHz, 1420 UTC, 20-06: 2 Data mode transmissions
11147 kHz, 1410 UTC, 22-06: Unid data mode transmission
11147 kHz, 1420 UTC, 22-06: Unid data mode transmission
11493 kHz, 1400 UTC, 25-06: 2 transmissions
11493 kHz, 1409 UTC, 25-06: 2 transmissions
11493 kHz, 1420 UTC, 25-06: 2 transmissions

Report from May 28th

Hello all,

This morning (May 28, 2012) I heard a Chinese language station that I have not heard before. Around 1408 UTC a carrier came up on 11493 kHz. The frequency was a little odd for a BC station so I parked an RX on it to see what came about. This carrier went on and off several times before stabilizing at about 1412 UTC. Starting about 1414 UTC I heard broken audio on the carrier. The audio sounded like a YL in Chinese language, but the audio was very bad, my assumption was a BC station with problems.

About 1415 the audio cleaned up, and it became clear it was a YL repeating the same phrases over and over in Chinese, I started recording about 1415:25. Each cycle in the audio ended with something similar to "oh sie". At 1418:48 the last cycle ended with a different word.

The carrier continued with no modulation until 1419:08 when a different sounding YL voice came up in Chinese and started repeating a similar sounding phrase to the first half of the transmission. This message ended at 1427:07, 4 minutes and 59 seconds after it started. It also ended with a different word, as had the first message. Looking at the ECL and listening to audio examples I believe what I heard was V16. Each cycle ending in something like "oh sie", 5 minute transmission (per message). The description in the ECL contains little other than that. The Enigma newsletters since 2000 (the oldest on the web site) say nothing about the station. Neither do any of the Numbers and Oddities newsletters I can get hold of. I am still looking through the old Wunclub newsletters, but so far found nothing there either.

Here is a video of my reception this morning, it starts in the first message, includes the gap between the messages,

includes the first minute or so of the second message, and then I jump to the last 45 seconds of the transmission.
http://www.youtube.com/watch?v=Gfiv_v3NzNw

Does anyone have a better fit for identifying this transmission?

T!, Mojave Desert, California, USA

For what it's worth:

316 de 728 no work/business
316 de 728 no work/business. out
375 de 138 no work/business
375 de 138 no work/business goodbye

Notes: no work/business - wu shih (sounds like English word 'sure')
out - zai hui
goodbye - zai jian

It consists of a 3-digit callsign being called by another 3-digit callsign and the work HuJiao which means 'calling'. That's why it sounds like a 3-digit callsign and a 5-digit group. It's 5 syllables. They are using "radio numbers" in standard Mandarin.

Westli, Southern California

Report from June 6th

It appears the recently found possible V16 transmissions have a schedule of Monday (11493 kHz), Wednesday (11323 kHz), and Friday (11147 kHz), with three transmissions each morning between the times of 1358z and 1430z. I have looked during the "off" mornings and so far not found it on other frequencies or times.

V16 1359z 11493kHz 4 June 2012, [no business]
V16 1409z 11493kHz 4 June 2012, [no business]
V16 1418z 11493kHz 4 June 2012, [no business]

This morning, June 6, 2012, a carrier came up on the anticipated 11323 kHz frequency at the right time (about 1358z). Several seconds later audio started, as occurs with V16. However, the audio was a talk radio program in Chinese. 5 minutes later, when V16 normally ends, the audio was shut off and a few seconds after that the carrier was off-air.

At 1408z the carrier again came up on frequency, again the right time for V16. After about 15 seconds of carrier the audio started, but again it was BC station audio of a man and a woman talking. During this time I flipped around through various Chinese language BC stations trying to find a match. The closest I could come up with was CRI on 11610 kHz, but I am not sure it was the exact programming. I only had one SW RX with me and had to switch back and forth between the frequencies. At about 1413z the audio was turned off, and several seconds later the carrier went away, again as expected with V16.

At 1418z the carrier again came online, and about 15 seconds later the BC station audio started up. It continued until 1423, the anticipated end time for a V16 transmission.

I think I understand why the V16 signal has been so strong at my location. If this V16 is sourced from one of the same transmitter facilities as CRI it is probably on the order of 100 kW to 500 kW power. It is a pretty safe assumption from the activities this morning that the technician selected the wrong audio source and meant to be transmitting the V16 message, but instead transmitted some SW BC station audio instead.

I know we have seen these errors form V02/M08/SK01 before, but how many other numbers stations have pulled the same error?

T!, Mojave Desert, California, USA

Report from June 12th

Since I first reported finding the Chinese Language V16 on 11493 kHz a couple of weeks ago I have been watching the station, trying to determine a schedule.

V16 weekly Schedule:

Monday, starting about 1400 UTC, 11493 kHz, AM, three transmissions each about 5 minutes long

Wednesday, starting about 1400 UTC, 11323 kHz, AM, three transmissions each about 5 minutes long

Friday, starting about 1400 UTC, 11147 kHz, AM, three transmissions each about 5 minutes long

The start times for the first transmission are somewhat variable, with anything from 1358 to 1400 seen. Each time slot consist of three transmissions between 1358 and 1430 UTC (start times on average 1359, 1409, and 1419 UTC), the audio for each transmission is about 5 minutes long. The carrier generally comes on-air about 5 to 20 seconds before the audio starts, and goes off-air about 5 to 15 seconds after the audio completes.

It appears there is also a 1500 UTC V16 time slot for the same days, but I do not have all the frequencies yet. The partial recordings I have of this time slot indicates similar number of messages, message lengths, and message spacing as the 1400 UTC time period.

Last week the Wednesday (June 6, 2012, 11323 kHz) and Friday (June 8, 2012, 11147 kHz) 1400 UTC time slots contained what are probably error transmissions. The cycle of carrier on, delay, audio start, and the start times for each transmission matched the other recently observed V16 activity, however the message sent was not the same.

It sounded, instead, like a Chinese language news/current events/talk show. Each of the three transmissions in the scheduled period sounded unique, not all the same, as if it was still three different messages. Wednesday msg 1 sounded like Friday msg 1, and Wednesday msg 2 sounded like Friday msg 2, etc.

Video of the "error" message here:

<http://www.youtube.com/watch?v=42qPDGEI1h4>

Monday, June 11, 2012, I again recorded for the 1400 time slot, on the 11493 kHz freq. As normal there were three transmissions, each with approximately the correct start time, the correct length, and the correct carrier / start audio relationship. However, the signal sent was a digital modem of some kind, sent in full AM. It appears as if there were two digital transmissions, each about 2 minutes and 3 seconds long for each 5 minute carrier on time.

Video of the digital signal here:

<http://www.youtube.com/watch?v=s8nsQcVlSkA>

It is possible we are seeing the development of a new digital numbers station associated with V16, rather like SK01 is associated with V02/M08.

T!, Mojave Desert, California, USA

Report from June 20th

Spectre was following Token's information and writes:

Where I received a Data transmission in AM mode, using an SDR remote from America. The station began transmitting 2 Data mode transmissions at 1400z and then went QRT at around 1404z. Another similar

transmission occurred at 1410z and another at 1420z both lasting 4 minutes each. This UNID Data mode appears to be linked with the V16 number station.

V16 11323kHz 1400z 20/06 [2 Data Mode TX's] 1404z WED

V16 11323kHz 1410z 20/06 [2 Data Mode TX's] 1414z WED

V16 11323kHz 1420z 20/06 [2 Data Mode TX's] 1424z WED

Note reception is based from the remote receiver and not from my own QTH.

You may be interested in monitoring this station from this rough schedule.

V16 1400z Monday 11493 kHz, 1400z Wednesday 11323 kHz, 1400z Friday 11147 kHz

I have attached a full recording of the Data transmission to this email.

Best wishes,

Spectre.

Report from June 25th

The last V16 format voice message I am aware of was sent on June 8, 2012, in the 1500 time slots on 12123 kHz (the same day was a probable error talk show transmission in the 1400 UTC time slot on 11147 kHz). Since that time all transmissions on all previously used V16 frequencies have been the digital mode. It remains to be seen if Enigma 2000 is going to assign a digital numbers station ID to this signal, as they did with SK01 after it became associated with V02/M08.

The schedule for this station, as it is today, is:

Mondays, 1400 UTC time slot, 11493 kHz

Mondays, 1500 UTC time slot, 12769 kHz

Wednesdays, 1400 UTC time slot, 11323 kHz

Wednesdays, 1500 UTC time slot, 12501 kHz

Fridays, 1400 UTC time slot, 11147 kHz

Fridays, 1500 UTC time slot, 12123 kHz

T!



VC01 **Chinese Robot**

Modes: USB and LSB

The station changes its frequencies frequently. Known frequencies:

3036, 3749, 3837, 4075, 4258, 4410, 4422, 4427, 4480, 4530, 4580, 5195, 5232, 5288, 5303, 5328, 5393, 5700, 5802, 5832, 6209, 6479, 6771, 6840, 6855, 6860, 6949, 6960, 7090, 7351, 7608, 7684, 7726, 7739, 7744, 7756, 7770, 7792, 7864, 7865, 7880, 7890, 7924, 8000, 8025, 8170, 9000, 9169, 9192, 9290, 9340, 10508 kHz.

4258 kHz, 27-05, 1209 UTC

4258 kHz, 28-05, 1355 UTC

4258 kHz, 28-05, 1403 UTC

7739 kHz, 16-06, 0935 UTC + 1023 UTC

7739 kHz, 17-06, 0800 UTC

7739 kHz, 18-06, 0811 UTC

MORSE STATIONS



MX ***Russian Military beacons***

Reported beacons and channel markers.

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

Asian Cluster Beacons: F, K, M



M12

Active as ever. For logs check the Logs Section.



M18

4503 kHz, 05-06, 1930 UTC: 2330 2330 2330 ... (UTC+4)



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

M21

ID "0": 4221.5, 5322, 5752 kHz

ID "9": 9144 kHz

ID "?": 7166 kHz

Time strings:

=990143??0?????

=990145??0?????

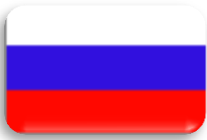
=99?1724?9?????

M21b

5322 kHz, 17-06, 1936 UTC. Mode: voice USB

Message: "01 02 7 20 in 57th 21 60 during 38" etc.

Recording by DLBB on the N&O website.



M24

11486 kHz, 06-06, 1234 UTC: 343 5t6 5t6 147 147 == 7t128
 9073 kHz, 09-06, 1830 UTC: 636 125 83 = 43697 (very fast morse)



M32 **Russian/CIS/Ukrainian** **Military SSB & CW Stations**

12083.5 kHz

21-06, 0905 UTC: Russian Mil. with traffic in progress:
HBXNB XEMXD KBTSF BKKBZ 906 K
 NKDA DE YF6C R? K
 4XT6 DE YF6C R? K
 O1SH DE YF6C R? K
 AWST DE YF6C R? K
 21-06, 0907 UTC: NW 4XTC DE YF6C QRV K
 YF6C R 690 QTC K
 21-06, 0912 UTC: YF6C 799 32 20 1305 799= ZOW 835= UQTAG....BKKBZ 906 K
 21-06, 0914 UTC: O1SH DE YF6C QTC ZLQ K
 YF6C 888 33 20 1310 888=ZLQ 835= OaCYI BKKBI 906 K

12593 kHz

17-06, 1325 UTC: PNIM: NCS of unid Russian mil command, poss army. Strategic flash message to collective recipient WEGI; "xxx xxx wegi wegi 22133 izowerin 1028 3454 k", same message later repeated on strategic channel 14411 kHz.
 18-06, 0734 UTC: PNIM: NCS of unid Russian mil command, poss army. Signal check with participating outstations; 9DM4, KALE, LXJ6, 9ZCL, 3NMT. Callup and comms signature of this net suggest "army", - and the outstations is probably located in the far-east.
 19-06, 0915 UTC: PNIM: NCS Russian mil sends qtc # 266 to outstation KALE, at 1023 UTC signal checks with out stations, sends qtc # 612 to 47W6, short after qtc sends flash override msg to N1DX; xxx xxx n1dx n1dx ammtix (?) 13165 iznanoänyj 0840 5687 k", then PNIM asks outstations for confirmation of received telegram # 612, except outstation 9ZCL who is asked to cancel telegram # 612; "qta 612", possibly N1DX is connected to 9ZCL ???

14411 kHz

17-06, 1232 UTC: Russian strategic operational command. Repeats modified strategic flash message previously broadcasted by PNIM om 12593 kHz: "vvv xxx xxx wegi wegi 24613 22133 izowerin 1028 3454 k" // 18.1 kHz.
 18-06, 0738 UTC: Russian strategic operational command. Strategic flash message to collective tactical army recipient RGT77: "vvv xxx xxx rgt77 rgt77 07149 10497 viwuüij 8145 4729 k", later 5fg msg to collective RDL; "rdl rdl rdl 242t2 56659 242t2 56659 242t2 56659 k"

16223 kHz, 27-06, 1511 UTC: "XXX XXX WEGI WEGI 49032 IZODRIN 1487 8084 XXX XXX"



M32a
Russian Navy
Voyenno-Morskoy Flot Rossii

8345 kHz

24-05 Russian Navy RIT de RJP98 QSA?

25-05 RMGB: Russian Navy tanker IMAN tfc to rcv rmgb 625 19 25 1000 625 = sml for rjh45 rje73 = 25061
99381 10257 41698 42905 10210 40100 54020 70210 82330 22282 00180 20101 88000 80000 25015
= + rmgb k

25-05 RKO81: Russian Navy vessel (Lena ?) tfc to rmp 645 30 25 0600 645 = sml for rjd69 rmp rjc66 = 11111
66310 25025 = + rko81 k

25-05 RMGB: Russian Navy tanker IMAN tfc to rcv rmgb 625 19 25 1000 625 = sml for rjh45 rje73 = 25061
99381 10257 41698 42905 10210 40100 54020 70210 82330 22282 00180 20101 88000 80000 25015
= + rmgb k

25-05 RMGB: Russian Navy tanker IMAN tfc to rcv rmgb 239 17 25 2200 239 = sml for rjh45 rje73 = 25181
99398 10255 41698 62103 10195 40125 54005 70311 81110 22200 00180 20101 25013 = + rmgb k

26-05 RFH70: unid Russian Navy vessel clg rcv qyt4 qsa? - qsx 10984/14600 - qyt4 qsx 14600 qcm - qyt4 qsx
19984/13244

26-05 RMGB: Russian Navy tanker IMAN tfc to rcv rmgb 405 19 26 1000 405 = rjh45 rje73 = 26061 99398
10258 41698 20508 10200 40145 54000 70111 82000 22262 00180 20203 88000 80000 26015
= + rmgb k

27-05 RMGB: Rus Navy tanker IMAN RUS 0605 CW tfc to rcv rmgb 123 19 27 1000 123 = sml for rjh45 rje73
= 27061 99412 10291 41598 60905 10165 40150 55010 70301 82200 22212 00170 20101 88000 80000
27015 = + rmgb k

28-05 RGV82: unid Russian Navy vessel qso RMP qsa3 k ok qsu1 qwh 4092 qsx 4146 k - qsu1 sk - qyt4 qsx
4225 qwh 6255 k - ok qyt4 sk - qrr3 qdw 4537 k

11000 kHz

31-05 RIW: Russian Navy: RGR70 de riw qsu1 qwh 13086 qsx 12260 k

10201 kHz

30-05 RBIZ: Pos PM-138 Floating Workshop? RUS/CIS Navy 0605 CW Tfc to RCV RBIZ 403 17 30 1000 403 = FOR
RJE73 RJH45 = 30061 99349 10358 41598 42306 10250 4013? 54032 70100 84100 22200
00224 20000 88000 30014 = + RBIZ

30-05 RBIZ: Pos PM-138 Floating Workshop? RUS/CIS Navy 1804 CW Tfc to RCV RBIZ 849 17 30 2200 849 = FOR
RJE73 RJH45 = 30181 99349 10358 41597 92304 10250 00155 52005 70000 89999 22200
00228 20000 88000 30014 = + RBIZ

11418 kHz

28-05 RMP: Russian Navy Kaliningrad qso RGV82/8345 qsa3 k

12464 kHz

31-05 RGR70: Russian Navy: riw de rgr70 qsu1 qsx

04-06 RMYZ: Russian navy qtc to RIW rmyz 211 178 4 1805 211 = sml for rcv = 55048 38148 31930 ...

04-06 RGV82: Russian navy clg RIW ok qrr3 qdw 10388

13086 kHz

31-05 RIW: Russian Navy: clg rgr70 for rc after opchat on 12464/cw



M32b
Russian Naval Aviation
Aviatsiya Voenno-morskogo Flota Rossii

8816 kHz

24-05 09365: Russian Naval Air Transport qtc to rjc38 rjf94 09365 qth 6112 0918 3224 qtr 0843 qre XLLV 0920 – qqm XLLV 0918 - qto 1123 qrd XUMO XLLV qre 1300 qbd 8000 - qth 5742 3458 (?) qtr 1210 qbg 6400

24-05 52251: Russian Naval Air Transport tfc to rjc38 rjf94 52251 qto 1335 qrd XLMV XLRA qre 1525 qbd 4800 – qth 6705 3420 qtr 1435 qbd 4400 qbg 5500 qre XLMV1530 - qqm XLMV 1530 sk

24-05 52232: Russian Naval Air Transport tfc to rjf94 rcb 52232 qto 1450 qrd XMWB XUEH qbd 6000 qah 5500 – qbd 0400 qah 5500 qal XMWB 1840 - qah 5500 qbd 0300 qal XMWB 1815 - qqm XMWB 1808 sk

27-05 52234: Russian Naval Air Transport qtc to rcb rjf94 52234 qto 1205 qrd XLLV XMWB qre 1500 qah 6400 qbd 4100 - qay EVRR 1256 qah 6400 qbd 3500 - qay EETT 1403 qal XLLV 1501 qah 6400 qbd 2600 - qqm XLLV 1501

26-05 52251: Russian Naval Air Transport tfc to rjc38 rjf94 52251 qto 1000 qrd XLLV XLMV qre 1250 qbd 4800 - qql ULPE 1100 qbd 3300 qbg 6100 - qth 6112 3294 qtr 1155 qbd 2400 qre XLLV 1240 - qqm XLLV 1233 sk

28-05 65307: Russian Naval Air Transport tfc to rjc38 rjf94 65307 qto 0603 qrd URRR XLMV qre 0945 qbd 14400 – qay XLPB 0717 qbg 10050 qbd 10100 - qth 5421 3814 qtr 0825 qbd 7100 - qre URRR 0940 qbd 5900

30-05 09365: Russian Naval Air Transport qtc to rjc38 rjf94 09365 qto 0633 qrd XLWF XLMV qre 0855 qbd 13500 - qql ULPE 0732 qbg 6400 - qth 6117 3700 qtr 0818 qre XLWF 0900 - qqm XLWF 0900 - qto 1105 qrd XUMO XLWF qre 1220 qbd 15600 - qqm XUMO 1218 - qto 1415 qrd XLMV XUMO qre 1725 qbd 14000 - qth 6258 3556 qtr 1558 qbd 9800 - qth 6622 3334 qtr 1635 qre XLMV 1720 - qqm XLMV 1722

04-06 09365: Russian Naval Air Transport qtc to rjc38 rjf94 09365 qto 0622 qrd XLMV XLLV qre 0850 qbd 14000 etc

06-06 52234: Russian Naval Air Transport qtc to rjf94 rcb 52234 qto 0512 qrd XRKE XUMO qre 0815 qah 6400 qbd 4800 - qql UOOO 0625 qah 5800 qbd 4100 - qql XRRR 0715 qal XRKE 0815 qah 5800 qbd 3400 - qqm XRKE 0805

06-06 09365: Russian Naval Air Transport qtc to rjf94 rjc38 09365 qto 0700 qrd XLOS XLMV qre 1010 qbd 13500 - qth 6456 3429 qtr 0756 qbg 7300 - qth 6112 3224 qtr 0846 qbd 9300 - qth 5907 3139 qtr 0915 qre XLOS 1005 - qqm XLOS 1007 sk qto 1233 qrd XRKE XLOS qre 1610 qbd 13300 - qth 5444 3513 qtr 1337 qbg 7600 - qth 5143 4011 qtr 1435 qbd 8600 - qql XRRR 1508 qre XRKE 1555 - qqm XRKE 1551 sk



M32c
Russian Air Force
Voyenno-vozdushnye sily Rossii

11354 kHz

27-05 52261 An-26 call to PRIBOJ, KROKET : dep OSTAFYEVO at 08:28z, ETA ROSTOV-na-Donu at 11:18z Fuel 5400kg

27-05 52256 An-26 call to PRIBOJ, NOVATOR: dep SEVEROMORSK-3 at 11:30z, ETA TALAGI (ULAA) at 13:10z, Fuel 4500kg+++later pos report 12:30z 66 57 N 34 36 E , FL5800m.



M45

5074 kHz, 29-05, 1702 UTC. Logged by JPL.

074 (R4)

724 724 33 33 = =

(Very poor copy - found a better tuner so missed the beginning of the message)

55727 68695 11595 52285 3.541 34003 01409 03824 27446 64916

28864 21181 78089 52617 04925 34375 = =

724 724 33 33

000



M89

Chinese military

Active stations:

VVV Q2M Q2M Q2M DE NYZ NYZ QSA? k

V 7NPE 7NPE 7NPE DE QV5B QV5B

V DKG6 DKG6 DKG6 DE 3A7D 3A7D

V GKVZ GKVZ GKVZ DE Q7NW Q7NW

V RXP7 RXP7 RXP7 DE CZT2 CZT2

V H2FL H2FL H2FL DE DRV8 DRV8

V WITN WITN WITN DE GNXG GNXG

V HJ4I HJ4I HJ4I DE YI4K YI4K

V OPN9 OPN9 OPN9 DE GYVR GYVR

V 8UPT 8UPT 8UPT DE SAY7 SAY7

V OQP8 OQP8 OQP8 DE TYPT TYPT

V YMN5 YMN5 YMN5 DE USSS USSS

V HHU6 HHU6 HHU6 DE GP2Q GP2Q

Other stations: BVZV, BJ7A, KB4A, 2WYR

A couple of messages and chat sessions provided by JPL:

4225//5500 kHz, 11-06, 1108 UTC:

VV UGT COMM BT 3859/2000/G75/9289 AR (x2)

VV UGT COMM BT 3389/2020/Z.0/9289 AR (1151z) (x2)

4225//5500 kHz, 11-06, 1328 UTC:

VV UGT COMM BT 3901/2200/G70/9283 (x2)

15 Jun 12 1700 - 1717 4474 kHz, 15-06, 1700 UTC:

U QSY TO 3333 K (1703z) (Sent many times)

U QSY TO 3000 K (1703z) (Sent many times)

U QSY TO 3311 K (1706z) (Sent many times)

U QSY TO 1111 k (1708z) (Sent many times)

QSA 1 K QSA 1 K

HR QSA 1 K

QSA 1 U QY TO 3333 K

R R

AGN 24W...

BT N.DAD N AR K

R

OK W BT TA7 I R 89W

R 79W BT 4TA AR K

R 72W BT A3U3 AR K

1W BT 7DA3 AR K

R

R (1815z)

8040 kHz, 30-05, 0104 UTC:

V YMN5 YMN5 YMN5 DE USSS USSS

R QSL 0905 K NR 15/EX 0906 RMKS ..8850 4284 K BT BT

SKME1/MOD AR BT

SKME1/MODE2 AR K

AS

GA

R .. K

R R QTS ME ? K

GA

VV YMN5 *YMN5 DE USSS* UHSS K

OK HR 7G.. K

ZGNr 1322 CK 80 41 0530 T900 RMKS 5805 394 TO 5800 ..393 ..

BT BT BT

7D3A 746T U5D7 T77T (Cont'd)

6DU5 AN45 T564 A7.M U4DAU TD3A 63TD 4 EEE 543T ND7N

ND7D 6U4A A7DN 6D3U 73UT TDU5 3U.4 T4DA EEE 76T. S34T

N6A6 373U 34N3 6A57 76ND NTT. TU76 T563 U5T7 3UT4 3UUN

... 6N57 543T 66.. T535 AR AR

OK UGT GA

R R .. GA

.. 59WU

RPT 60W K

RPT

OK QSL 0924 K

OK 7G/1323 CK 80 41 0530 0900 RMKS 5805 394 TO 5.05 393 K BT BT BT

4NA6 ATD4 476U 745D 76AD 5NT5 NU4T ADN7 TT7T DUN3

MSG NR 47 CK 299 85 0515 2300 K
R R
NU7A U3TD 3A7D 34DA AD4N ... (Cont'd)
.PN
21W GA K
BT BT
UA34 5A54 5AD7 ... (Cont'd)
AR (1728z)
R BT 36 UD AR
R 43W BT 3BD. AR K
R R 80W BT D R BT AUT5 AR K
2P K
R 81W BT AUT5 AR K
62W BT N4U3 AR K
R 31W BT D4T6 AR K
R 96W BT NDDA AR K
R 47W BT T6NU AR K
R
AGN
K

5278 kHz, 28-05, 1859 UTC:

MSG NR 17/CCK CK 25 84 0529 BT
TU.T
MSG NR 17/EEEEEE
MSG NR 17/CCK CK 25 84 0529 0250 BT BT
T6A3 U74A 7N5D NUT5 UA5T ...
AR
ULL HR ULL HR ULL HR
ULL HR ULL HR

5801 kHz, 28-05, 2129 UTC:

NR 71 CK 70 70 0529 0500 RMKS 6865 71200 6865 713 K BT BT
A6D4 5376 4T7A A7A.. ..(Cont'd)
3U47 UN4T 3UG. A7N4 UAD7 NAUT 4UA7 5TN6 7NAU EUA6T
T53N 5N3A DN6U NTDA AT7D 3ATN .54. TAU7 NT3A TA73
7653 U.N. U75N 7AN5 5T.UY TAD5 3AUT TD4N 7D43 UAT4
A633 4UN5 UT73 DA.N DAU TE? T43N 7654 7TDA C K (2134z)
R R
R R (Appears to have changed to voice – USB – 2134z)

This appears to be a outstation as it replied R R then switched to voice.

4590//7607 kHz, 23-06, 1208 UTC:

V WITN WITN WITN DE GNXG GNXG
RMKS 4096 TO .01. 2385 1675 402. BT
SVC QRW 4916 2386 FE6M6 QRW L16 2100 K/ 4095 . WK NR 46 Q..? (Only
sent once by hand)

8787 kHz, 25-06, 0933 UTC:

BT GO5ZH/SX6QF
BT GO5ZH/SX6QF AR
R UGA K
R GA K
R QSL 1738 K
R HR MSG GA K
MSG NR 18 CK 99 58 0235 1730 B T
34T5 3773 4ATU 3U6T D335 D76A 3DU6 T54A TA7N TTA6 (Cont'd)
AR K (09043z)
R 43U5 AR K
BT A754 AR K
R BT U7AN AR K
R BT 3UT4 AR K
R BT U5T4 AR K
R U MSG GA K
R GA K (0947z)
R QSL 1754 K
SK GB (ends 0952z)

ND3T 5U43 ND56 5DUT N3AU 73D6 N6A7 47AD N756 4A63
NAT4 6U6A 347N A63T 567N 6N5. RU3 ... (Cont'd)
56NT ANDT 5A3A .7DT 4A6D U3AU 65T4 56ND 745D 4753 343U 7..N
ADU4 573A AR AR (0130z)
OK ET..
OK GT
VVV K I
VV
VV .. K
CTVV 97 AR K
.. HR NR 203 K
R UI /.8..
NR 0.6/EX 094 3.. (2ND station on freq causing interference)
K
RPT 20W K
EEE BT BT ..F.. TVXZ K FO4. TU ..
K
RPT 77 EEE RPT 78W K (0138z)
OK QSL 0937 K
R NR NR 1324 CK 80 41 0300 900 RMKS 5.0539 4 TO 580539 3 K BT BT BT
U3A4 D7NA U476 565T 56DU DN5T AA37 NU5T TT7T UN3D 6EEE 7647
UAD TD43 34UD NT7U TN6T 6764 643T AN EEEE A74N UT5N ADT5
7T7T AT4A T477 537A DN65 74D6 N77U 6TA5 DN4T T4D4 3DTT 6A5D
A5U6 NDNA D7.7 6535 63U3 DTNA 56TU 3ATU T3U5 47.7 DTND 6ND
A3D AD5N 6376 AD36 NDNT T773 .63U 3DUA 7U5U 53U3 64DN 7566
TU4U 47TD 664U 63N3NEEEE 6534 N364 5U3U 4U4D D5N7 7A4A ND57
7447 N34N UDA7 TA3 EEEE TAU3 5347 55A3 53N5 3T6. 643U AUU4 NU35
U4D4 37A5 ... AR AR
OK UGA
OK QSL 0949 K
OK SB SK SK SK
To voice - USB 0151z. (Also some data being sent. Silent 0153z
VVV HHU6 VVV HHU6
972 AR
R QSL 1003
R NR 1./EX 10.4 RMKS 7894 TO 4284 K
R BT
AF4S..M. D1X AR BT
AF4.A.MODJX AR K BT
A4SA/MODJX AR
K
BT
AF4.A/MODJX AR
R HR /203
K
R GA
RPT
R RPT
K
1P K
K
VV HHU6 SHU6 SH R 1P R 83W
R QSL 3W
R 3W
4W
R 4W
R UZ PSE UZ WTO NR .2 PSE QSY TO NR 02 SI PSE U QSY TO NR 02 NR 02
VV K
4W
V VV HHU6 HHU6 DE GP2Q K
K
R 4W
R R 79W
R 79W
R OK QSL 1016 K
R
MSG NR 19 CK 99 80 0530 1000 BT
R (ends 0215z)



M97

Vietnamese numbers

Frequency: 10375 kHz
Mode: Morse

Only a couple of logs of this station which has a daily schedule at 1500 UTC on 10375 kHz.

07-06, 1500 UTC: SD 70 SN 100

08-06, 1501 UTC: In progress - SD 70 SN 100

11-06, 1500 UTC: SD 71 SN 30

12-06, 1459 UTC: SD 71 SN 30

13-06, 1500 UTC: SD 71 SN 30



MC03

Chinese Air Defense

10591 kHz, 24-05, 1849 UTC: coded figure message using cut numbers AU34567DNT

VARIOUS MODES



SK01

Dirección General de Inteligencia

Brandon Longo, Anthony and KC2TTK reported a new and an unusual mode for SK01: EasyPal and HamDRM which they used years ago.

18035 kHz, 29-06, 2135 UTC, Mode: EasyPal

12120 kHz, 30-06, 0455 UTC, Mode: EasyPal/DRM

18035 kHz, 30-06, ca 2130 UTC, Mode: EasyPal/DRM sent by callsign "ZEN11"

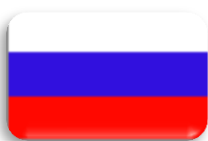
17478 kHz, 30-06, 2113 UTC, Mode: HamDRM

See also Anthony's video at http://www.youtube.com/watch?v=NIH3c2_y8B4

KC2TTK says "On another important note, they seem to be moving to half-hour transmissions instead of hour transmissions."

Russian Government & Intelligence

M42 & X06



Modes:

Various digital modes + CW



16258.5 kHz, 23-05, 0652 UTC:	Russian diplo. Mode: CROWD-36
7978 kHz, 25-05, 0629 UTC:	Russian Gov/Intel. Msg with a mark after each 50 th group. Mode: Baudot 50/500
19566 kHz, 28-05, 1529 UTC:	Russian Intel. Mode: FSK 200/1000
16059.5 kHz, 29-05, 0730 UTC:	Russian Gov/Intel. Mode: RUS-ARQ 100/2000
17500.5 kHz, 30-05, 0743 UTC:	Russian Diplo. "11177100421180700" Mode: CROWD-36
10310 kHz, 31-05, 0759 UTC:	Russian Gov/Intel. ITU says RKA76, Moscow-Kubinka area. Mode: Baudot 50/500
10380 kHz, 31-05, 0801 UTC:	Russian Gov/Intel. prob Kola/Karelia in traffic, later arq system bursts. Mode: Baudot 50/500
11055 kHz, 31-05, 0803 UTC:	Russian Gov/Intel. ITU says RIN26, Moscow area. Mode: Baudot 50/500
11500 kHz, 31-05, 0804 UTC:	Russian Gov/Intel. Moscow area in tfc. Mode: Baudot 50/500
12184 kHz, 31-05, 0729 UTC:	Russian Gov/Intel. ITU says RHI9, Moscow area. No traffic observed. Mode: Baudot 50/500
13985 kHz, 31-05, 0737 UTC:	Russian Gov/Intel?. No traffic observed. No opchat, ch previously used by RHY7 and RRQ6 Mode: Baudot 50/500
13989.75 kHz, 31-05, 0808 UTC:	Russian Gov/Mil. works with 13994.75 kHz. Mode: Baudot 50/500
13994.75 kHz, 31-05, 0808 UTC:	Russian Gov/Mil. in traffic, ends traffic at 0900, off air without neither NON nor opchat, works with 13989.75 kHz. Mode: Baudot 50/500
14564 kHz, 31-05, 0919 UTC:	Russian Gov/Intel. prob Asian Russia or neighbouring contries. In traffick, not in // to strat bcasts Mode: Baudot 50/500
15870 kHz, 31-05, 0739 UTC:	Russian Gov/Intel. qth prob Kaliningrad /western Russia. No traffic observed. Mode: Baudot 50/500
15940 kHz, 31-05, 0745 UTC:	Russian Gov/Intel. no traffic. Mode: Baudot 50/500
16074 kHz, 31-05, 0746 UTC:	Russian Gov/Intel. in traffic. Straight off air at 0752 while in traffic modem. Mode: Baudot 50/500
19314 kHz, 03-06, 1532 UTC:	Russian Intel. 5min call-up with null message. Mode: FSK 200bd/1000 ACF=288
16231.5 kHz, 04-06, 0520 UTC:	Russian Diplo Mode: CROWD-36
14673.5 kHz, 06-06, 0623 UTC:	Russian Diplo Mode: CROWD-36
11486 kHz, 06-06, 1025 UTC:	Russian Gov/Intel. Mode: Baudot 200/500Hz
13914 kHz, 06-06, 1025 UTC:	Russian Gov/Intel. Mode: Baudot 200/500Hz
8192 kHz, 06-06, 1220 UTC:	Russian Intel. Mode: FSK 200/1000 Hz
10761 kHz, 06-06, 1220 UTC:	Russian Intel. Mode: FSK 200/1000 Hz
12226 kHz, 06-06, 1200 UTC:	Russian Intel. Mode: FSK 200/1000 Hz
9140 kHz, 07-06, 0750 UTC:	Russian Gov., St Petersburg: RUU70 ckg RRF30 "VVV RRF 30 RRF 30 RRF 30 DE RUU 70 RUU 70 ZHC~ ZHC~" into msg in RUS-ARQ. Mode: CW / RUS-ARQ 100/500
6785 kHz, 07-06, 1920 UTC:	Russian Gov/Intel. Mode: Baudot 200/500Hz
9092 kHz, 07-06, 1920 UTC:	Russian Gov/Intel. Mode: Baudot 200/500Hz
11025 kHz, 07-06, 1900 UTC:	Russian Gov/Intel. Mode: Baudot 200/500Hz
11474 kHz, 08-06, 0709 UTC:	Russian Intel. Mode: FSK 200/1000
12093 kHz, 08-06, 0728 UTC:	Russian Gov/Intel. Mode: Baudot 75/500
12213 kHz, 08-06, 0845 UTC:	Mazielka. Sequence: 615243
17491 kHz, 08-06, 2345 UTC:	Russian Gov/Intel. "3278065 32721349419574189". Mode: Baudot 200/500
15943 kHz, 09-06, 1100 UTC:	Russian Intel. Mode: FSK 200/1000Hz
13481 kHz, 09-06, 1220 UTC:	Russian Gov/Intel. Mode: Baudot 200/500Hz
11123 kHz, 09-06, 1120 UTC:	Russian Intel. Mode: FSK 200/1000 Hz
16901 kHz, 21-06, 0638 UTC:	Mazielka. Sequence: 12-3-6
12192 kHz, 23-06, 2020 UTC:	Russian Gov/Intel. Mode: Baudot 200/500 Hz
14536 kHz, 23-06, 2016 UTC:	Russian Gov/Intel. Mode: Baudot 200/500
9234 kHz, 29-06, 0720 UTC:	Russian Intel. Mode: FSK 200/1000 Hz
11474 kHz, 29-06, 0716 UTC:	Russian Intel. Mode: FSK 200/1000
13381 kHz, 30-06, 0816 UTC:	Russian Intel. Mode: FSK 200/1000 Hz
11068 kHz, 30-06, 0826 UTC:	Russian Intel. Mode: FSK 200/1000 Hz

15932 kHz, 30-06, 1216 UTC:	Russian Gov/Intel. Mode: Baudot 200/500 Hz
13481 kHz, 30-06, 1226 UTC:	Russian Gov/Intel. Mode: Baudot 200/500 Hz



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

Copied on 4153, 4231.5, 6250, 6417, 6445, 8313, 8588, 8703.5 kHz at 1218 UTC on May 27th.



OLO32
Bezpečnostní informační služba
Security Information Service

13406.3 kHz, 03-06, 1849 UTC, Sitor-B 100/170. Czech intel Prague with encrypted traffic



North Korean diplomatic stations

14348.6 kHz, 31-05 MFA North Korea. Mode: DPRK-ARQ 1200/1200
21001.5 kHz, 02-05, 1328 UTC: North Korean embassy Moscow. Mode: DPRK-ARQ 600/600
14318.5 kHz, 05-06, 0700 UTC: North Korean embassy Moscow. Mode: DPRK-ARQ 1200/1200
10548.5 kHz, 28-05, 0600 UTC: North Korean diplo. Mode: DPRK ARQ/600/600



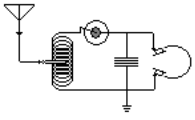
Egyptian diplomatic stations

23589.7 kHz, 29-05, 0920 UTC: Egyptian diplo. Mode: SITOR-A 100/170
25018.7 kHz, 28-05, 1459 UTC: Egyptian diplo. Mode: SITOR-A 100/170
21016.7 kHz, 18-05, 0807 UTC: MFA Cairo. Mode: SITOR-A 100/170
21127.7 kHz, 04-06, 0835 UTC: MFA Cairo. Mode: PSK4 75 1670 Codan9001
12208.7 kHz, 28-05, 0617 UTC: MFA Cairo clg qqtq (Emb. Belgrade). Mode: SITOR-A 100/170



Sudanese diplomatic stations

21000 kHz, 29-05, 1401 UTC: MFA Sudan. Mode: USB



XM

6720 kHz, 19-06, 2110 UTC: in progress

UTILITY ROUND-UP

Patrick copied the Carabinieri on 7598 kHz LSB on various days in June.
Language: Italian. Mode: LSB

IEA20: Comando Generale Carabinieri Roma radio checks
IEA21: Carabinieri Torino radio check with IEA20
IEA22: Carabinieri Genova radio check with IEA20
IEA25: Carabinieri Bolzano radio check with IEA20
IEA26: Carabinieri Padova radio check with IEA20
IET31 Mobile: Carabinieri Bologna radio check with IEA20
IET31: Carabinieri Bologna radio check with IEA20
IET32: Carabinieri Ancona radio check with IEA20
IET36: Carabinieri Cagliari radio check with IEA20
IET52: Carabinieri Ferrara radio check with IET31
IET64: Carabinieri Modena radio check with IET31
IET640: Carabinieri Carpi radio check with IET31 Mobile
IET642: UNID Carabinieri Emilia Romagna radio check with IET31
IEU41: Carabinieri Napoli radio check with IEA20
IEU43: Carabinieri Bari radio check with IEA20
IEU540: Carabinieri Santa Maria Capua Vetere clg IEU41 and IEA20
IEU63: Carabinieri Potenza radio check with IEA20
IEU673: Carabinieri Manfredonia radio check with IEU43
IEU681: Carabinieri Tricas radiocheck with IEU43
Locale: UNID Carabinieri radio check with IEA20
Mangusta: Carabinieri Prishtine radioc heck with IEA20

CARABINIERI



Unid time signal station

Since June 17th an unid time signal station is active on 10 MHz. I am not sure if this is a legit station or a pirate. One thing is for sure, it is not Italcable as this firm does not exist anymore. Italcable was founded in 1921 and became part of Telecom Italia that incorporated Iritel, Telespazio, Italcable and Sirm in 1994. At the time of writing (30-6) the station is no longer on the air. The station's website does not give much information. The website is registered in the name of ITAL CABLE Associazione senza fini di lucro, Viareggio, a non-profit association and has the header "ASSOCIAZIONE AMICI di ITAL CABLE" ("Friends of Italcable Association").

There are time announcements every minute in Italian and at H+00, H+15, H+30, H+45 there is a longer announcement. The voice mirror says that it is an Italcable experimental time signal station. The transmissions consist of music fragments, second pulses and text "Italcable, stazione radio Italcable, trasmissione sperimentale del segnale orario, frequenza dieci megahertz. Il segnale viene inviato in modalità SRC. Per maggiori informazioni www.italcable.it . Locator JN53DV". The time signals are the same as sent by RAI and exact; probably copied from the internet.

Pirate stations

6998 kHz, CW, the wellknown Italian pirate.
“VVV VVV DE HWK7 AR” and political and religious text.

Unid stations

13416 kHz, 01-06, 1844 UTC, USB: Unid station. Chinese female voice with short call and duplex telephone.

Intelligence profile: Sweden



BACKGROUND

A military power during the 17th century, Sweden has not participated in any war for almost two centuries. An armed neutrality was preserved in both world wars. Sweden's long-successful economic formula of a capitalist system interlarded with substantial welfare elements was challenged in the 1990s by high unemployment and in 2000-02 and 2009 by the global economic downturns, but fiscal discipline over the past several years has allowed the country to weather economic vagaries. Sweden joined the EU in 1995, but the public rejected the introduction of the euro in a 2003 referendum.

GENERAL

Official name: Konungariket Sverige (Kingdom of Sweden)
Short name: Sverige (Sweden)
Capital: Stockholm
21 Counties: Blekinge, Dalarna, Gavleborg, Gotland, Halland, Jamtland, Jonkoping, Kalmar, Kronoberg, Norrbotten, Orebro, Ostergotland, Skane, Sodermanland, Stockholm, Uppsala, Varmland, Vasterbotten, Vasternorrland, Vastmanland, Vastra Gotaland

MILITARY BRANCHES

Swedish Armed Forces (Forsvarsmakten):
Army (Armen), Royal Swedish Navy (Marinen), Swedish Air Force (Svenska Flygvapnet)

SECURITY & INTELLIGENCE AGENCIES

Försvarets Radioanstalt (FRA) / National Defence Radio Establishment

Säkerhetspolisen (SÄPO) / Swedish Security Service

Militära underrättelse- och säkerhetstjänsten (MUST) / Military Intelligence and Security Service

Kontoret för särskild inhämtning (KSI) / Office for Special Acquisition

Underrättelsekontoret (UNDK) / Intelligence Office

Säkerhetskontoret (SÄKK) / Security Office

Informations Byrån (IB) / Information Bureau

Militära Underrättelse - och Sakerhetstjänsten

MUST is the military intelligence and security agency. It collaborates with all Sweden's security services, especially the Försvarets Radio Anstalt . MUST collects, processes and disseminates military intelligence within the armed forces.

MUST consists of four departments and two primary sections:

- Assessment Department
 - Current Intelligence Department
 - Basic Intelligence Department
 - Security Office (counterintelligence)
 - Planning and Requirements Section
 - Internal Support Section (administration)
 - Defence Attaches Support Section
 - Information Bureau
 - Office for Special Collection
-

Kontoret för särskild inhämtning (KSI)

IB was a secret [intelligence agency](#) within the [Swedish Armed Forces](#). Its two main purposes were to handle liaison with foreign intelligence agencies and it was responsible for monitoring political dissidents. After the "IB-affair" the secret service was exposed and possibly disbanded but I could not find any evidence of that. *) It is said that IB has been replaced by the Kontoret för särskild inhämtning (KSI).

Kontoret för särskild inhämtning (KSI), "The Office for Special Collection", is part of the MUST, and also one of the most secret parts of the Swedish Armed Forces. The previous name, until the early 1990s, was Sektionen för särskild inhämtning (SSI), "The Section for Special Collection".

Försvarets Radio Anstalt

FRA's operations are organized into three departments:

- The Department of Signals.
- The Department of Technical Signals and Information.
- The Department for System Development

Notes: Operational activities are supported by the Department for System Development, and a department for the operation and maintenance and personnel services. In addition, there is also a team and a number of specialists that operate directly under the Director-General.

Signalreferensbiblioteket

Signalreferensbiblioteket (Signals Reference Library) is a database containing a description of the electromagnetic energy (signals) emitted into the atmosphere through a variety of equipment. FRA is heavily involved with using technology to augment communications from Sweden's navy, air force and army. FRA's library is tasked with identifying and intercepting such signals. It is believed the Service has a core group of about 25 highly skilled

employees working at the leading edge of intercept technology.

FRA enlists advisers who perform business planning, are capable of strategic analysis, and who provide information and support for Sweden's overall international defence efforts. FRA liaises with similar authorities from other countries. The organisation boasts it has some of the world's leading cryptologists within its ranks.

Specialist Functions: Other functions performed under the direct control of FRA's Director-General concern the legality of its operations and security.

Signals Intelligence: The division of signals intelligence is responsible for the collection of communications. This is performed from FRA stations in several locations in the country. The collection is also conducted from aircraft and ships. FRA analysts are involved with the development of telecommunications sector and their 'product' is processed and forwarded to recipients of FRA data.

Information Section: The Division of Information often liaises with government offices and state-owned companies. It provides assistance, for example, testing to see how secure a communications system is, or help to thwart computer intrusions. In the event that an 'attack' is in progress, FRA's specialists are often employed to identify, remove and then discover where the attack originated.

Technical signals intelligence: The Division of technical signals intelligence is responsible for telecommunications support, defence of intelligence and technology and methods of development. FRA is in constant liaison with Sweden's armed forces and provides training for the Department of Defence.

Systems: FRA's Systems Division supplies other departments with the technical systems needed for operations. The Systems Division is often called upon to provide technical solutions. Most of the systems FRA needs for its activities are planned, developed, built and installed by the department's own resources.

Operation and maintenance: The Operation's Division is a service organization responsible for ensuring the smooth running of FRA's technical systems and ensuring premises are suitable. The department is also responsible for the economy as well as for transport and service functions.

FRA's employees have knowledge and experience in a wide range of technologies, services, property management, economics, and technical equipment and software.

SOURCES / RELATED WEBSITES & DOCUMENTATION

CIA World Factbook

Wikipedia

Säkerhetspolisen (SÄPO) <http://www.securityservice.se>

Försvarets radioanstalt <http://www.fra.se>

Försvarsmaktens <http://www.forsvarsmakten.se>

Swedish Polish Service <http://www.polisen.se>

Signalspaning <http://www.signalspaning.se>

Gale Encyclopedia of Espionage & Intelligence

*) https://secure.wikimedia.org/wikipedia/en/wiki/IB_affair#cite_ref-1

Intelligence profile:

Finland



BACKGROUND

Finland was a province and then a grand duchy under Sweden from the 12th to the 19th centuries, and an autonomous grand duchy of Russia after 1809. It won its complete independence in 1917. During World War II, it was able to successfully defend its freedom and resist invasions by the Soviet Union - albeit with some loss of territory. In the subsequent half century, the Finns made a remarkable transformation from a farm/forest economy to a diversified modern industrial economy; per capita income is now among the highest in Western Europe. A member of the European Union since 1995, Finland was the only Nordic state to join the euro system at its initiation in January 1999. In the 21st century, the key features of Finland's modern welfare state are a high standard of education, equality promotion, and national social security system - currently challenged by an aging population and the fluctuations of an export-driven economy.

GENERAL

Country name: Suomen Tasavalta (Republic of Finland)
Short name: Suomi (Finland)
Capital: Helsinki
19 regions: Ahvenanmaa; Etela-Karjala; Etela-Pohjanmaa; Etela-Savo; Kanta-Hame; Kainuu; Keski-Pohjanmaa; Keski-Suomi; Kymenlaakso; Lappi; Paijat-Hame; Pirkanmaa; Pohjanmaa; Pohjois-Karjala; Pohjois-Pohjanmaa; Pohjois-Savo; Satakunta; Uusimaad; Varsinais-Suomi

MILITARY

Finnish Defense Forces (FDF): Army, Navy (includes Coastal Defense Forces), Air Force (Suomen Ilmavoimat)

INTELLIGENCE & SECURITY AGENCIES

Suojelupoliisi (SUPO) / Security Intelligence Service
Viestikoelaitos / Signalprovanstalten (VKoEL) / Intelligence Research Establishment
Pääesikunnan tiedusteluosasto (PVTK) / Military Intelligence Service

SUPO

In independent Finland, the institution of security police has existed since 1919, although temporary at first. The Security Police was established as a small and reticent agency whose powers were carefully restricted. It did not have arrest or pre-trial investigation powers, not to mention the powers of phone-tapping or foreign intelligence. The personnel were recruited mainly among the ordinary police. The limited powers and overall caution were due to the predecessors' colourful measures and history, as well as Finland's sensitive foreign-political position. It was the National Bureau of Investigation who carried out the actual criminal investigation until 1989.

The predecessor of the Security Police was the State Police (Valtiollinen poliisi, Valpo), which was run and manned by the communists from 1945 to 1948. On 17 December 1948 decree was ratified that abolished the State Police and established a security Police. Supo started its work at the beginning of 1949.

Between 1993 and 2010 several major reorganisations took place. I will mention only the most recent ones. At the beginning of the year 2009, the Security Police was divided into eight performance units directly subordinate to the Director. The Deputy Directors, acting as Heads of Branch, lead the activity of the units. The Operational Branch consists of Counterespionage, Counterterrorism, Security, Field Surveillance and Regional Activity. The Security Unit includes Security and Vetting Offices.

A significant change was that regional activities were centralised in one performance unit. The Strategic Branch includes International Relations, Situation Awareness and Internal Services. The Situation Awareness Unit, responsible for research activity within the Security Police, participates also in the work of the Situation Centre of the Prime Minister's Office. Internal Services are provided by the Administration Office, Information Management Office and Archives Office. The Finnish Security Police changed its name to Finnish Security Intelligence Service in August 2010.

The duty of the Finnish Security Intelligence Service is to prevent and counter terrorist offences. Essential is that threats relating to terrorism are identified at earliest possible stage. In the field of counterterrorism, the Finnish Security Intelligence Service has close international cooperation with other security services. It makes threat assessments on the terrorism situation and follows the possible changes closely. The assessments on terrorism threat form the basis for defining more extensive measures by authorities and situation-specific security measures.

The Finnish Security Intelligence Service constantly monitors the activity of foreign intelligence services and tries to stop at the earliest possible stage all activities harmful to the state and business life of Finland and thus prevent crimes. This kind of defensive activity, typical of national security services, is called counterespionage. One of the prerequisites for its success is the constant interaction with the government, business life and citizens. The expert services of the Finnish Security Intelligence Service are needed e.g. when a government official or a businessman suspects that he or she is dealing with a representative of an intelligence service of a foreign state. A strong indication of this is when the partner tries to conceal or restrict normal contacts and meetings. The Finnish Security Intelligence Service conducts standard and comprehensive personal security clearances for companies and authorities that have been included in the security clearance procedure.

The Service is also monitoring the internal State security, especially the development of domestic extremist phenomena and illegal activity relating to them. At the moment, radical illegal actions do not pose a serious threat to Finnish society but the situation can change very rapidly also in this sector, mostly due to international influence.

Protecting the Prime Minister and the highest State leadership is part of Supo's dignitary protection duties. The Finnish Security Intelligence Service is also involved in the security arrangements of state visits to Finland, the main focus being on securing the personal safety of foreign dignitaries.

Keskusrikospoliisin (KRP) . National Bureau of Investigation

The KRP is a national police unit operating throughout the Finnish territory. Its main duties are to:

- fight against international and organised crime
- produce specialist services in combating crime
- produce up-to-date and reliable situational awareness on crime with a special emphasis on organised crime
- lead the target selection process in serious crime cases
- develop methods for combating crime.

The KRP is the national centre for intelligence activities focusing on serious and organised crime and also serves as the national centre of international criminal police cooperation.

Military Intelligence

The Finnish Radio Intelligence was founded in 1927. The radio intelligence proved very successful in breaking the codes and ciphers used by the Soviet Union, as well as other countries during WWII. At the beginning of the Winter War the organization employed some 75 persons, by the end of WWII it had a strength of over 1,000. The Finnish Air Force had its own radio intelligence unit, which focused on intercepting and deciphering Soviet Air Force radio messages. Its strength was about 300. At the end of World War II, the organization staged the Operation Stella Polaris, in order to evacuate intelligence personnel and material to neutral Sweden in case of a Soviet invasion. After the wars many former officers signed up with foreign intelligence units in order to escape the communist infiltrated secret police Valpo, who wanted to investigate and arrest them. Today the signals intelligence is handled by Viestikoelaitos.

The Pääesikunnan tiedusteluosasto (Finnish Military Intelligence Service - literally "The General Staff's Intelligence Unit") is responsible for the military intelligence in Finland, and accountable to the Minister of Defence. Viestikoelaitos ("Signals Test Facility") is its SIGINT unit of the Finnish Defence Forces, founded in 1960. It is part of the organization of the Finnish Air Force, and shares its headquarters in Tikkakoski. Very little information about the unit is publicly available.

SOURCES / RELATED WEBSITES / FURTHER INFORMATION

CIA World Factbook

Wikipedia

Brassey's International Intelligence Yearbook 2002

SUPO <http://www.poliisi.fi/poliisi/supo60/home.nsf/pages/indexeng>

KRP <http://www.poliisi.fi/krp>

Puolustusvoimat <http://www.puolustusvoimat.fi>

Intelligence profile:

Norway



BACKGROUND

Two centuries of Viking raids into Europe tapered off following the adoption of Christianity by King Olav TRYGGVASON in 994. Conversion of the Norwegian kingdom occurred over the next several decades. In 1397, Norway was absorbed into a union with Denmark that lasted more than four centuries. In 1814, Norwegians resisted the cession of their country to Sweden and adopted a new constitution. Sweden then invaded Norway but agreed to let Norway keep its constitution in return for accepting the union under a Swedish king. Rising nationalism throughout the 19th century led to a 1905 referendum granting Norway independence. Although Norway remained neutral in World War I, it suffered heavy losses to its shipping. Norway proclaimed its neutrality at the outset of World War II, but was nonetheless occupied for five years by Nazi Germany (1940-45). In 1949, neutrality was abandoned and Norway became a member of NATO. Discovery of oil and gas in adjacent waters in the late 1960s boosted Norway's economic fortunes. In referenda held in 1972 and 1994, Norway rejected joining the EU. Key domestic issues include immigration and integration of ethnic minorities, maintaining the country's extensive social safety net with an aging population, and preserving economic competitiveness.

GENERAL

Official name: Kongeriket Norge (Kingdom of Norway)
Short name: Norge (Norway)
Capital: Oslo
19 counties: Akershus, Aust-Agder, Buskerud, Finnmark, Hedmark, Hordaland, More og Romsdal, Nordland, Nord-Trøndelag, Oppland, Oslo, Ostfold, Rogaland, Sogn og Fjordane, Sor-Trøndelag, Telemark, Troms, Vest-Agder, Vestfold

MILITARY

Norwegian Army (Haeren), Royal Norwegian Navy (Kongelige Norske Sjøforsvaret, RNoN; includes Coastal Rangers and Coast Guard (Kystvakt)), Royal Norwegian Air Force (Kongelige Norske Luftforsvaret, RNoAF), Home Guard (Heimevernet, HV)

INTELLIGENCE & SECURITY AGENCIES

Stortingets kontrollutvalg for etterretnings-, overvåkings- og sikkerhetstjeneste /
Norwegian Parliamentary Intelligence Oversight Committee
Etterretningstjenesten / Norwegian Intelligence Service
Politiets sikkerhetstjeneste (PST) / Norwegian Police Security Service
Nasjonal sikkerhetsmyndighet / National Security Authority (NSM)
Forsvarets sikkerhetsavdeling (FSA) / Norwegian Defence Security Department

The *Stortingets kontrollutvalg for etterretnings-, overvåkings- og sikkerhetstjeneste*, commonly known as the EOS-utvalget, is the body responsible for supervising public intelligence, surveillance and security services. The body has seven members and is appointed by the Parliament of Norway. The oversight is aimed at the Norwegian Intelligence Service (NIS), the Norwegian Police Security Service (PST), the National Security Authority (NSM) and the Norwegian Defence Security Service (NORDSS) -these are collectively known as the EOS-services. The committee also oversees intelligence, surveillance and security services that are organized through other public bodies.

The committee was established in 1996, following the findings and subsequent public debate related to the Lund Commission. It had concluded that the Norwegian Police Security Service had been involved in extensive illegal political surveillance of left-winged organizations and individuals, in particular during 1960s and 70s. The establishment of an oversight committee dealt with a political wish to control the EOS-services and to ensure to not repeat past illegalities. The first committee was appointed in March 1996, and is directly under the parliament and not the government. The previous oversight committee had been appointed by the government, and did not have the mandate to oversee foreign intelligence activities.

The *Politiets sikkerhetstjeneste (PST)* is the police security agency of Norway, comparable to the British MI5. The agency was previously known as POT (Politiets overvåkningstjeneste or Police Surveillance Agency), the name change was dictated by the Parliament of Norway on 2 June 2001.

The service was established in 1936 or 1937. It is responsible for monitoring and securing the interior security in Norway. Known operational departments include counterintelligence unit, counterterrorism unit, counter-proliferation and organized crime unit, counterextremism unit, investigation unit, surveillance unit, technology unit, security analysis unit and foreign citizens unit. In addition, PST is in charge of all VIP protection domestically and abroad except for the royal family, which has its own independent escort service. The organization consists of Den Sentrale Enhet (central unit) which is located in Nydalen, Oslo, as well as individual police officers in all the police regions.

PST is unlike all ordinary police services not a part of the National Police Directorate but placed directly under the Ministry of Justice and the Police. Also, the agency is monitored by the Norwegian Parliamentary Intelligence Oversight Committee, after it conducted unlawful political surveillance on national citizens during the Cold War.

[Etterretningstjenesten](#) or the Norwegian Intelligence Service (NIS) is a Norwegian military intelligence agency under the Chief of Defence and the Ministry of Defence. The service has operated, or still operates, the following stations, all of them located north of the Arctic Circle:

Andøya (Nordland county): former SOSUS station, suspected ACINT station
Fauske (Nordland county): suspected FISINT (TELINT) and ELINT station
Kirkenes (Finnmark county): suspected ELINT and NUCINT station
Vardø (Finnmark county): the Globus II radar (HAVE STARE), suspected ELINT station
Vadsø (Finnmark county): SIGINT (COMINT) station

Kirkenes, Vardø, and Vadsø are close to the Russian border near Severomorsk in the Murmansk district on the Kola Peninsula, the home of the former Soviet Northern Fleet and now its Russian equivalent.

The Norwegian intelligence ship, [Marjata](#) is a purpose built ELINT ship. Several Marjata's have been used over the years. During the Cold War it was always stationed near the Soviet border and the current Marjata is still operating out of the ports of Finnmark in the Northern part of Norway. The Marjata has always been looked upon as an annoyance by the Soviet Union / Russia and some years ago, Norwegian authorities received criticism because of the ship overlooking the process of lifting the sunken Russian submarine Kursk. The Marjata was also involved in surveillance of what happened during that day of the tragic incident of that submarine. In general, Russia thinks that the ship operates too close to Russia's territorial waters. The Marjata has been called many things, an intelligence ship, an ELINT ship, a research ship and a spy ship. The ship is operated by the Norwegian Intelligence Service and is considered to be one of the most advanced spy ships in the world.

[E14 \(Seksjon for spesiell innhenting\)](#) was a highly classified section within the Intelligence Service, focusing on covert missions abroad. This particular unit was active from 1995 to 2005. The unit gathered HUMINT intelligence information in various countries, including Bosnia and Hercegovina, Kosovo, Macedonia, Serbia, Sudan, Lebanon, Syria, Iraq and Afghanistan.

The [Nasjonal sikkerhetsmyndighet](#) is a Norwegian security agency (Direktorat) established on 1 January 2003 as the successor to Forsvarets sikkerhetsstab (FO/S). It is responsible for preventative national security, ICT security matters, including the national CERT (NorCERT), identifying national objects of special interest and reducing their vulnerability to internal and external threats. The agency performs threat analysis at the national level, and is also known to work with experts on computer security and with data encryption. The cooperation with the Police Security Agency (PST) and the Norwegian Intelligence Service (NIS) has been identified as a very important part of the task of maintaining an overview of potential threats to objects, and instituting proactive activities. NSM is administratively governed and funded by the Ministry of Defense, but also reports to the Ministry of Justice and the Police in civilian matters.

NSM also cooperates with the Directorate for Civil Protection and Emergency Planning (DSB), to prevent loss of life and maintain health, environment, important society functions, and material assets in connection with accidents, catastrophes, terrorism and other unwanted events in peace, crisis and war.

The [Forsvarets sikkerhetsavdeling \(FSA\)](#) is a joint security and counter-intelligence service within the Norwegian Armed Forces. Its members are a mix of civilian employees and military personnel. The head of the service holds the military rank Colonel or (naval) captain. FSA's primary responsibility is protective security and operative security services within the Armed Forces, including responsibilities related to the Norwegian Armed Forces security intelligence. The tasks include:

- Counteract security threats, and threats associated with espionage, sabotage and terrorist acts that may affect military activities and/or national security.
 - Conduct background checks, (the vetting process) to determine if security clearance can be given to military personnel who apply for access to classified information.
 - Act as the Designated Security Authority in Norway for the "request for visit" system, by controlling both visits of foreign nationals to the Norwegian Armed Forces or Norwegian defence industry, and issue Norwegian citizens with a certificate of security clearance when visiting other nations where valid security clearance is required.
 - Liaise with the Norwegian Police Security Service in cases that involve the Armed Forces.
-

RELATED NUMBERS STATION

M52 transmitted from Trondheim, Norway between 1998 and 2001

SOURCES / RELATED WEBSITES / FURTHER INFORMATION

Wikipedia

CIA World Factbook

The Norwegian Intelligence Service 1945-1970 (Olav Riste)

Stortingets kontrollutvalg for etterretnings-, overvåkings- og sikkerhetstjeneste <http://www.eos-utvalget.no>

Politiets overvåkingstjeneste <https://www.politi.no>

Forsvaret <http://forsvaret.no> / <http://mil.no>

Nasjonal sikkerhetsmyndighet <https://www.nsm.stat.no/>



MARJATA

Picture by Peter John Acklam

LOGS SECTION

Freq.	enigma	remarks	mode	date	day	UTC	contributor
2680	M22	4XZ traffic	CW	3-6-2012	Sun	2228	(SW2)
2860	M22	4XZ traffic	CW	3-6-2012	Sun	2254	(SW2)
2860	M22	vvv de 4xz	CW	9-6-2012	Sat	2201	(SW2)
3297	M89	In tfc - 4 fig cut nr until 1755z V GKVZ (x3) DE Q7NW (x2)	CW	11-6-2012	Mon	1750	(JPL-HK)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	15-6-2012	Fri	1655	(JPL-HK)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	15-6-2012	Fri	1852	(JPL-HK)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	15-6-2012	Fri	2108	(JPL-HK)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	27-5-2012	Sun	1612	(JPL-HK)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	27-5-2012	Sun	1917	(JPL-HK)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	28-5-2012	Mon	1858	(JPL-HK)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	29-5-2012	Tue	1616	(JPL-HK)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	30-5-2012	Wed	1751	(JPL-HK)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	31-5-2012	Thu	1242	(JPL-HK)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	31-5-2012	Thu	1349	(JPL-HK)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	1-6-2012	Fri	1208	(JPL-HK)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	1-6-2012	Fri	2023	(JPL-HK)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	4-6-2012	Mon	1238	(JPL-HK)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	4-6-2012	Mon	1609	(JPL-HK)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	4-6-2012	Mon	2016	(JPL-HK)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	6-6-2012	Wed	1226	(JPL-HK)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	6-6-2012	Wed	1615	(JPL-HK)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	7-6-2012	Thu	1745	(JPL-HK)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	9-6-2012	Sat	1801	(JPL-HK)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	10-6-2012	Sun	1417	(JPL-HK)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	10-6-2012	Sun	1650	(JPL-HK)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	10-6-2012	Sun	1852	(JPL-HK)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	10-6-2012	Sun	2051	(JPL-HK)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	12-6-2012	Tue	1715	(JPL-HK)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	12-6-2012	Tue	1940	(JPL-HK)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	12-6-2012	Tue	2032	(JPL-HK)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	13-6-2012	Wed	1641	(JPL-HK)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	14-6-2012	Thu	1647	(JPL-HK)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	14-6-2012	Thu	2025	(JPL-HK)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	20-6-2012	Wed	1629	(JPL-HK)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	20-6-2012	Wed	2048	(JPL-HK)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	21-6-2012	Thu	1231	(JPL-HK)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	21-6-2012	Thu	1651	(JPL-HK)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	21-6-2012	Thu	1925	(JPL-HK)
3297	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (Mon)	CW	11-6-2012	Mon	1917	(JPL-HK)
3631	M32	Russian Mil. OK1P	CW	23-5-2012	Wed	2147	(BCI)
3642	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	12-6-2012	Tue	1716	(JPL-HK)
3642	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5230	CW	1-6-2012	Fri	2025	(JPL-HK)
3642	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5230	CW	7-6-2012	Thu	1747	(JPL-HK)
3642	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5230	CW	21-6-2012	Thu	1927	(JPL-HK)
3642	M89	V DKG6 DKG6 DKG6 DE 3A7D 3A7D	CW	6-5-2012		2010	(IARUMS)
3797	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	9-6-2012	Sat	1804	(JPL-HK)
3797	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	27-5-2012	Sun	1618	(JPL-HK)
3797	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	27-5-2012	Sun	1912	(JPL-HK)
3797	M89	V HF2L (x3) DE DRV8 (x2) (Cont'd)	CW	29-5-2012	Tue	1428	(JPL-HK)
3798	M89	h2fl h2fl h2fl de drvz drvz v	CW	6-5-2012		2248	(IARUMS)
3798	M89	h2fl h2fl h2fl de drvz drvz v	CW	18-5-2012	Fri	2132	(IARUMS)
3798	M89	h2fl h2fl h2fl de drvz drvz v	CW	21-5-2012	Tue	2256	(IARUMS)
3881	M51	FAV22: CSTEI Favers. Lecon vitesse	CW	22-6-2012	Fri	0925	(LesG)
4153	XSL	Japanese Navy a.k.a. Slot Machine	QPSK 1500bd	27-5-2012	Sun	1218	(AB-HK)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	26-5-2012	Sat	2103	(JPL-HK)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	28-5-2012	Mon	2117	(JPL-HK)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	30-5-2012	Wed	1025	(JPL-HK)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	30-5-2012	Wed	1745	(JPL-HK)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	30-5-2012	Wed	1945	(JPL-HK)

Freq.	enigma	remarks	mode	date	day	UTC	contributor
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	30-5-2012	Wed	2311	(JPL-HK)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	31-5-2012	Thu	1826	(JPL-HK)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	13-6-2012	Wed	1639	(JPL-HK)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	15-6-2012	Fri	1651	(JPL-HK)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	15-6-2012	Fri	1848	(JPL-HK)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	15-6-2012	Fri	2253	(JPL-HK)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	16-6-2012	Sat	1003	(JPL-HK)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	27-5-2012	Sun	0952	(JPL-HK)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	27-5-2012	Sun	1611	(JPL-HK)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	29-5-2012	Tue	1133	(JPL-HK)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	29-5-2012	Tue	1427	(JPL-HK)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	29-5-2012	Tue	1617	(JPL-HK)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	29-5-2012	Tue	2117	(JPL-HK)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	29-5-2012	Tue	2316	(JPL-HK)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	6-6-2012	Wed	1225	(JPL-HK)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	6-6-2012	Wed	1613	(JPL-HK)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	6-6-2012	Wed	1733	(JPL-HK)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	6-6-2012	Wed	2144	(JPL-HK)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	7-6-2012	Thu	1054	(JPL-HK)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	7-6-2012	Thu	1741	(JPL-HK)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	7-6-2012	Thu	2046	(JPL-HK)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	8-6-2012	Fri	1241	(JPL-HK)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	9-6-2012	Sat	1116	(JPL-HK)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	9-6-2012	Sat	1758	(JPL-HK)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	10-6-2012	Sun	1006	(JPL-HK)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	10-6-2012	Sun	1147	(JPL-HK)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	10-6-2012	Sun	1414	(JPL-HK)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	10-6-2012	Sun	1646	(JPL-HK)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	10-6-2012	Sun	1848	(JPL-HK)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	10-6-2012	Sun	2047	(JPL-HK)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	10-6-2012	Sun	2216	(JPL-HK)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	11-6-2012	Mon	1108	(JPL-HK)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	11-6-2012	Mon	1747	(JPL-HK)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	11-6-2012	Mon	1914	(JPL-HK)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	12-6-2012	Tue	1458	(JPL-HK)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	12-6-2012	Tue	1712	(JPL-HK)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	12-6-2012	Tue	1938	(JPL-HK)
4225	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	12-6-2012	Tue	2028	(JPL-HK)
4225	M89	V 7NPE (x3) DE QV5B (x2) UGT COMM msg at 1901z //5500	CW	27-5-2012	Sun	1858	(JPL-HK)
4225	M89	VV UGT COMM BT 3901/2200/G70/9283 (x2)	CW	11-6-2012	Mon	1328	(JPL-HK)
4231.5	XSL	Japanese Navy a.k.a. Slot Machine	QPSK 1500bd	27-5-2012	Sun	1218	(AB-HK)
4258	VC01	Chinese Robot	USB	28-5-2012	Mon	1403	(TI)
4258	VC01	Chinese Robot in progress	USB	27-5-2012	Sun	1209	(AB-HK)
4258	VC01	Chinese Robot in progress	USB	28-5-2012	Mon	1355	(AB-HK)
4331	M22	4XZ: Israeli navy Haifa "vvv de 4xz 4xz tfc msg"	CW	18-6-2012	Mon	2229	(SW2)
4331	M22	4XZ: Israeli Navy Haifa "vvv de 4xz 4xz"	CW	30-5-2012	Wed	1937	(SW2)
4333	M22	4XZ: IDF/Israeli Navy Haifa "VVV DE 4XZ"	CW	26-6-2012	Tue	2334	(LesG)
4419	M32	Russian Mil. 5MHJ wkg 7HIE	CW	21-5-2012	Tue	2055	(BCI)
4474	M89	In Chat - msg sent - "U QSY TO 333 EEE UQSY TO 3333 K"	CW	15-6-2012	Fri	1700	(JPL-HK)
4495	M32	Russian Mil. ILTN wkg SARI	CW	25-5-2012	Fri	0325	(BCI)
4503	M18	2330 2330 2330 ...	CW	5-6-2012	Tue	1930	(FN)
4512	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	31-5-2012	Thu	1353	(JPL-HK)
4512	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	14-6-2012	Thu	1651	(JPL-HK)
4512	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	21-6-2012	Thu	1233	(JPL-HK)
4512	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	21-6-2012	Thu	1653	(JPL-HK)
4512	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	21-6-2012	Thu	1928	(JPL-HK)
4512	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	27-5-2012	Sun	1618	(JPL-HK)
4512	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	27-5-2012	Sun	1912	(JPL-HK)
4585	S28	The Buzzer	USB	10-6-2012	Sun	2308	(LesG)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	26-5-2012	Sat	2106	(JPL-HK)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	27-5-2012	Sun	1229	(JPL-HK)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	27-5-2012	Sun	1616	(JPL-HK)

Freq.	enigma	remarks	mode	date	day	UTC	contributor
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	27-5-2012	Sun	1910	(JPL-HK)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	28-5-2012	Mon	2126	(JPL-HK)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	29-5-2012	Tue	1134	(JPL-HK)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	29-5-2012	Tue	1429	(JPL-HK)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	29-5-2012	Tue	1618	(JPL-HK)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	29-5-2012	Tue	2118	(JPL-HK)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	30-5-2012	Wed	1747	(JPL-HK)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	30-5-2012	Wed	1947	(JPL-HK)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	31-5-2012	Thu	1246	(JPL-HK)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	31-5-2012	Thu	1355	(JPL-HK)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	31-5-2012	Thu	1828	(JPL-HK)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	7-6-2012	Thu	1743	(JPL-HK)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	8-6-2012	Fri	1243	(JPL-HK)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	9-6-2012	Sat	1800	(JPL-HK)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	10-6-2012	Sun	1416	(JPL-HK)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	10-6-2012	Sun	1648	(JPL-HK)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	10-6-2012	Sun	1850	(JPL-HK)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	10-6-2012	Sun	2049	(JPL-HK)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	13-6-2012	Wed	1643	(JPL-HK)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	20-6-2012	Wed	1625	(JPL-HK)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	20-6-2012	Wed	2045	(JPL-HK)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	21-6-2012	Thu	1235	(JPL-HK)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	21-6-2012	Thu	1649	(JPL-HK)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	21-6-2012	Thu	1918	(JPL-HK)
4590	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	23-6-2012	Sat	1208	(JPL-HK)
4592	M22	4XZ: IDF/Israeli Navy Haifa "DE 4XZ 4XZ AR AR"	CW	10-6-2012	Sun	2311	(LesG)
4594	M22	4XZ "vvv de 4xz"	CW	14-6-2012	Thu	2055	(w.obi)
4594	M22	4XZ: IDF/Israeli Navy Haifa "VVV DE 4XZ"	CW	26-6-2012	Tue	2334	(LesG)
4625	S28	MDZhB 00 799 SAMOVARSHCHIK 25 27 75 08	USB	10-6-2012	Sun	1322	(Avare)
4625	S28	MDZhB 23 ??? Bandikut 60 21 38 74	USB	27-5-2012	Sun	1255	(Avare)
4625	S28	MDZhB 60 616 ZAMETKA 55 33	USB	10-6-2012	Sun	1333	(Avare)
4625	S28	MDZhB 68 634 SAMOKRUTIT 05 57 83 76	USB	10-6-2012	Sun	1315	(Avare)
4625	S28	MDZhB 89 520 MAMONTOVYIJ 75 59 16 77	USB	10-6-2012	Sun	1250	(Avare)
4625	S28	The Buzzer	USB	10-6-2012	Sun	2312	(LesG)
4860	M89	VVV (x3) Q2M DE NYZ (x2) (Cont'd) //6840	CW	29-5-2012	Tue	2120	(JPL-HK)
4860	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	26-5-2012	Sat	2120	(JPL-HK)
4860	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	27-5-2012	Sun	1620	(JPL-HK)
4860	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	27-5-2012	Sun	1920	(JPL-HK)
4860	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	28-5-2012	Mon	2120	(JPL-HK)
4860	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	29-5-2012	Tue	1420	(JPL-HK)
4860	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	29-5-2012	Tue	1620	(JPL-HK)
4860	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	9-6-2012	Sat	1820	(JPL-HK)
4860	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	10-6-2012	Sun	1420	(JPL-HK)
4860	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	10-6-2012	Sun	2219	(JPL-HK)
4860	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	11-6-2012	Mon	1920	(JPL-HK)
4860	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	14-6-2012	Thu	2020	(JPL-HK)
4860	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	15-6-2012	Fri	1920	(JPL-HK)
4860	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	20-6-2012	Wed	1620	(JPL-HK)
4860	M89	VVV (x3) Q2M DE NYZ (x2) QSA? K (R5) //6840	CW	4-6-2012	Mon	1620	(JPL-HK)
4860	M89	VVV (x3) Q2M DE NYZ (x2) QSA? K (R5) //6840	CW	4-6-2012	Mon	2020	(JPL-HK)
4860	M89	VVV (x3) Q2M DE NYZ (x2) QSA? K (R5) //6840	CW	6-6-2012	Wed	1620	(JPL-HK)
4860	M89	VVV (x3) Q2M DE NYZ (x2) QSA? K (R5) //6840	CW	7-6-2012	Thu	1820	(JPL-HK)
4860	M89	VVV (x3) Q2M DE NYZ (x2) QSA? K (R5) //6840	CW	12-6-2012	Tue	1720	(JPL-HK)
4860	M89	VVV (x3) Q2M DE NYZ (x2) QSA? K (R5) //6840	CW	21-6-2012	Thu	1919	(JPL-HK)
5074	M45	074 724 33 etc	CW	29-5-2012	Tue	1702	(JPL-D)
5221.5	M21	Russian air defence =990143??0?????	CW	3-6-2012	Sun	2142	(WP3)
5230	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	27-5-2012	Sun	1613	(JPL-HK)
5230	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	27-5-2012	Sun	1914	(JPL-HK)
5230	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	29-5-2012	Tue	1431	(JPL-HK)
5230	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	30-5-2012	Wed	1749	(JPL-HK)
5230	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	6-6-2012	Wed	1228	(JPL-HK)
5230	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	6-6-2012	Wed	1736	(JPL-HK)

Freq.	enigma	remarks	mode	date	day	UTC	contributor
5230	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	9-6-2012	Sat	1802	(JPL-HK)
5230	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	10-6-2012	Sun	1425	(JPL-HK)
5230	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	12-6-2012	Tue	2034	(JPL-HK)
5230	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	20-6-2012	Wed	1631	(JPL-HK)
5230	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	21-6-2012	Thu	1651	(JPL-HK)
5230	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	1-6-2012	Fri	2025	(JPL-HK)
5230	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	7-6-2012	Thu	1747	(JPL-HK)
5230	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	12-6-2012	Tue	1716	(JPL-HK)
5230	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	21-6-2012	Thu	1927	(JPL-HK)
5230	M89	v dkg6 dkg6 dkg6 de 3a7d 3a7d v	CW	3-6-2012	Sun	2139	(WP3)
5278	M89	In chat "VV *FFI7* K"	CW	29-5-2012	Tue	1748	(JPL-HK)
5278	M89	In tfc - 4 fig cut nrs until 1055z AR V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	20-6-2012	Wed	1052	(JPL-HK)
5278	M89	In tfc - Possibly Q7NW "MSG NR 17/CCK CK 25 84 0529 BT"	CW	28-5-2012	Mon	1900	(JPL-HK)
5278	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	25-6-2012	Mon	1104	(JPL-HK)
5284	G06	154 154 154 00000	AM	11-6-2012	Mon	1700	(Avare)
5284	G06	Test count	AM	11-6-2012	Mon	1704	(Avare)
5322	M21	Russian air defence =990145??0?????	CW	3-6-2012	Sun	2145	(WP3)
5322	M21b	PVO "01 02 7 20 in 57th 21 60 during 38" etc.	USB	17-6-2012	Sun	1936	(DLBB)
5373	S21	973 412 30 88038 51758 13267 16744 412 30 000	USB	14-6-2012	Thu	1742	(Avare)
5373	S21	973 412 30 88038 51758 13267 40607 ... 412 30 000	USB	14-6-2012	Thu	1742	(Spec)
5419.0	M51	ip	CW	6-6-2012	Wed	0026	(FMB)
5448	S30	8S1Shch 50 765 ATTYA 75 34 83 32 Priyom	USB	27-6-2012	Wed	1510	(Avare)
5473	S32	Al'fa-45 21 487 BELANDE 37 21 27 04 Vremya	USB	27-6-2012	Wed	1515	(Avare)
5500	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	28-5-2012	Mon	1056	(JPL-HK)
5500	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	1-6-2012	Fri	1209	(JPL-HK)
5500	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	1-6-2012	Fri	2027	(JPL-HK)
5500	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	4-6-2012	Mon	1236	(JPL-HK)
5500	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	4-6-2012	Mon	1607	(JPL-HK)
5500	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	4-6-2012	Mon	2015	(JPL-HK)
5500	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	20-6-2012	Wed	1046	(JPL-HK)
5500	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	20-6-2012	Wed	1619	(JPL-HK)
5500	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	20-6-2012	Wed	2043	(JPL-HK)
5500	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	21-6-2012	Thu	1647	(JPL-HK)
5500	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	21-6-2012	Thu	1916	(JPL-HK)
5500	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	23-6-2012	Sat	1157	(JPL-HK)
5500	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	25-6-2012	Mon	1114	(JPL-HK)
5500	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	15-6-2012	Fri	1651	(JPL-HK)
5500	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	15-6-2012	Fri	1848	(JPL-HK)
5500	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	15-6-2012	Fri	2253	(JPL-HK)
5500	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	16-6-2012	Sat	1003	(JPL-HK)
5500	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	27-5-2012	Sun	0952	(JPL-HK)
5500	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	27-5-2012	Sun	1611	(JPL-HK)
5500	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	29-5-2012	Tue	1133	(JPL-HK)
5500	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	29-5-2012	Tue	1427	(JPL-HK)
5500	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	29-5-2012	Tue	1717	(JPL-HK)
5500	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	29-5-2012	Tue	2117	(JPL-HK)
5500	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	29-5-2012	Tue	2316	(JPL-HK)
5500	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	6-6-2012	Wed	1225	(JPL-HK)
5500	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	6-6-2012	Wed	1613	(JPL-HK)
5500	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	6-6-2012	Wed	1733	(JPL-HK)
5500	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	6-6-2012	Wed	2144	(JPL-HK)
5500	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	7-6-2012	Thu	1054	(JPL-HK)
5500	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	7-6-2012	Thu	1741	(JPL-HK)
5500	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	7-6-2012	Thu	2046	(JPL-HK)
5500	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	8-6-2012	Fri	1241	(JPL-HK)
5500	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	9-6-2012	Sat	1116	(JPL-HK)
5500	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	9-6-2012	Sat	1758	(JPL-HK)
5500	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	10-6-2012	Sun	1006	(JPL-HK)
5500	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	10-6-2012	Sun	1147	(JPL-HK)
5500	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	10-6-2012	Sun	1414	(JPL-HK)
5500	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	10-6-2012	Sun	1646	(JPL-HK)
5500	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	10-6-2012	Sun	1848	(JPL-HK)

Freq.	enigma	remarks	mode	date	day	UTC	contributor
5500	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	10-6-2012	Sun	2047	(JPL-HK)
5500	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	10-6-2012	Sun	2216	(JPL-HK)
5500	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	11-6-2012	Mon	1108	(JPL-HK)
5500	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	11-6-2012	Mon	1747	(JPL-HK)
5500	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	11-6-2012	Mon	1914	(JPL-HK)
5500	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	12-6-2012	Tue	1458	(JPL-HK)
5500	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	12-6-2012	Tue	1712	(JPL-HK)
5500	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	12-6-2012	Tue	1938	(JPL-HK)
5500	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	12-6-2012	Tue	2028	(JPL-HK)
5500	M89	V 7NPE (x3) DE QV5B (x2) UGT COMM msg at 1901z //4225	CW	27-5-2012	Sun	1858	(JPL-HK)
5500	M89	VV UGT COMM BT 3389/2020/Z.0/9289 AR	CW	11-6-2012	Mon	1128	(JPL-HK)
5500	M89	VV UGT COMM BT 3859/2000/G75/9289 AR (x2)	CW	11-6-2012	Mon	1128	(JPL-HK)
5500	M89	VV UGT COMM BT 3901/2200/G70/9283 (x2)	CW	11-6-2012	Mon	1328	(JPL-HK)
5731	E06	315 189 15 87967 45342 64542 89675 76854 04532 53421 43234 54657 86732 65478 98075 54356 75643 65465 189 15 00000	AM	8-6-2012	Fri	2130	(Spec)
5752	M21	Russian air defence =990130??0???? =990131??0????	CW	3-6-2012	Sun	2129	(WP3)
5773	E07a	147 1 30209 207 55 78572 44140 26430 ... 000 000	AM	13-6-2012	Wed	2040	(Spec)
5773	E07a	147 1 30704 538 77 12210 81091 59779 ... 000 000	AM	20-6-2012	Wed	2040	(Spec)
5773	E07a	147 1-30209	AM	13-6-2012	Wed	2040	(HFD)
5788	M12	463 1	CW	6-6-2012	Wed	1740	(HFD)
5788	M12	463 1 3352 64 37704	CW	13-6-2012	Wed	1740	(FN)
5788	M12	463 1 9707 49 56224	CW	6-6-2012	Wed	1740	(FN)
5800.0	M08a	05:53Z carrier on; faint; SK at 06:35Z	AM	21-6-2012	Thu	0006	(KC2TTK)
5800.0	M08a	Caught IP. At least decent sig, but no copy due to heavy local QRM.	MCW	21-6-2012	Thu	0600	(BCA)
5800.0	M08a	In progress; faint	AM	25-6-2012	Mon	0605	(KC2TTK)
5800.0	SK01	Unusually good reception	RDFT	20-6-2012	Wed	0656	(KC2TTK)
5801	M89	In chat/msg - Possibly CZT2 "NR 71 CK 70 70 0529 0500 RMKS 6865 71200 6865 713 K"	CW	28-5-2012	Mon	2129	(JPL-HK)
5801	M89	In progress. V DKG6 (x3) DE 3A7D (x2)	CW	31-5-2012	Thu	1226	(JPL-HK)
5801	M89	In tfc/chat "MSG NR 2364 HR MSG CK GA"	CW	29-5-2012	Tue	2121	(JPL-HK)
5801	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	31-5-2012	Thu	1351	(JPL-HK)
5801	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	1-6-2012	Fri	1217	(JPL-HK)
5801	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	8-6-2012	Fri	1246	(JPL-HK)
5815	G11	270/00	USB	10-6-2012	Sun	1755	(HFD)
5815	G11	276/36 Achtung 24579 49597 56465 04250 91768 ...	USB	12-6-2012	Tue	1755	(Spec)
5815	G11	276/36 Achtung 24579 49597 56465 04250 91768 ...	USB	17-6-2012	Sun	1755	(Spec)
5815	G11	299/00	USB	16-6-2012	Sat	1325	(HFD)
5815	S11a	221/00	USB	16-6-2012	Sat	1020	(HFD)
5853.0	V02a	Very quiet audio. Caught IP. Missed callups.	AM	21-6-2012	Thu	0700	(BCA)
5883.0	V02a	ATENCIÓN 54142 66572 70811	AM	23-6-2012	Sat	0007	(KC2TTK)
5883.0	V02a	Carrier present, no transmission	AM	11-6-2012	Mon	0700	(KC2TTK)
5883.0	V02a	Hardly audible	AM	25-6-2012	Mon	0700	(KC2TTK)
5898.0	M08a	04:56Z carrier on; loud but kept fading in and out	AM	21-6-2012	Thu	0005	(KC2TTK)
5898.0	M08a	Caught IP. Good sig, but no copy due to local QRM.	MCW	21-6-2012	Thu	0500	(BCA)
5898.0	SK01	Unusually good reception	RDFT	20-6-2012	Wed	0600	(KC2TTK)
5898.0	V02a	0752Z Carrier on; Barely audible over QRM	AM	25-6-2012	Mon	0800	(KC2TTK)
5898.0	V02a	ATENCIÓN 30211 53632 66061	AM	11-6-2012	Mon	0757	(KC2TTK)
5898.0	V02a	ATENCIÓN 54142 66572 70811	AM	23-6-2012	Sat	0008	(KC2TTK)
5905	V02a	in progress	AM	1-7-2012		0434	(KC2TTK)
5938	M14	417-825/15=57896	CW	13-6-2012	Wed	1920	(HFD)
6140	E25	Muazzine calls, 116 (rptd) 8115 1031 3160 8799 3680 3909 1039 6712 5122 0391 4729 3967 4337 6021 0828 EOM EOT	AM	13-6-2012	Wed	0807	(AIK)
6140	E25	Music "Entra Omri" YL. 33 350 (rptd) 7010 7120 7001 9141 3579 5275 5236 8189 7241 7120	AM	17-6-2012	Sun	0947	(AIK)
6140	E25	Tone/XMTR whine followed by the song "Ahwak", then transmitter off.	AM	30-5-2012	Wed	0823	(AIK)
6140	E25	Unid arab music. YL. 880 (rptd) 2420 0295 5191 2954 7563 2774 6716 7091 9126 5599 9908 8289 5642 8532 2420	AM	15-6-2012	Fri	1111	(AIK)
6140	E25	YL. 012 (15x) message (3x) 5307 7750 7532 2499 5501 4337 etc	AM	4-6-2012	Mon	0751	(AIK)
6140	E25	YL. 116 (rptd)	AM	14-6-2012	Thu	0756	(AIK)
6140	E25	YL. 116 (rptd) 8115 1031 3160 8799 3680 3909 1039 6712 5122 0391 4729 3967 4337 6021 0828	AM	14-6-2012	Thu	0759	(AIK)
6140	E25	YL. 128 (rptd) 5261 8071 6670 7144 6832 1343 1466 2488 4775 4471 4414	AM	13-6-2012	Wed	1043	(AIK)
6140	E25	YL. 169 (15x) message (3x) 0245 4220 9023 2623 2683 6892 7731 2748 8026	AM	7-6-2012	Thu	0844	(AIK)

Freq.	enigma	remarks	mode	date	day	UTC	contributor
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //10640	CW	20-6-2012	Wed	1120	(JPL-HK)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //10640	CW	23-6-2012	Sat	1220	(JPL-HK)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //10640	CW	25-6-2012	Mon	1120	(JPL-HK)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //4860	CW	26-5-2012	Sat	2120	(JPL-HK)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //4860	CW	27-5-2012	Sun	1620	(JPL-HK)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //4860	CW	27-5-2012	Sun	1920	(JPL-HK)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //4860	CW	28-5-2012	Mon	2120	(JPL-HK)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //4860	CW	29-5-2012	Tue	1420	(JPL-HK)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //4860	CW	29-5-2012	Tue	1620	(JPL-HK)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //4860	CW	9-6-2012	Sat	1820	(JPL-HK)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //4860	CW	10-6-2012	Sun	1420	(JPL-HK)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //4860	CW	10-6-2012	Sun	2219	(JPL-HK)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //4860	CW	11-6-2012	Mon	1920	(JPL-HK)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //4860	CW	14-6-2012	Thu	2020	(JPL-HK)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //4860	CW	15-6-2012	Fri	1920	(JPL-HK)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //4860	CW	20-6-2012	Wed	1620	(JPL-HK)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA? K (R5) //10640	CW	1-6-2012	Fri	1220	(JPL-HK)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA? K (R5) //10640	CW	6-6-2012	Wed	1220	(JPL-HK)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA? K (R5) //10640	CW	7-6-2012	Thu	1120	(JPL-HK)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA? K (R5) //10640	CW	21-6-2012	Thu	1120	(JPL-HK)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA? K (R5) //4860	CW	4-6-2012	Mon	1620	(JPL-HK)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA? K (R5) //4860	CW	4-6-2012	Mon	2020	(JPL-HK)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA? K (R5) //4860	CW	6-6-2012	Wed	1620	(JPL-HK)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA? K (R5) //4860	CW	7-6-2012	Thu	1820	(JPL-HK)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA? K (R5) //4860	CW	12-6-2012	Tue	1720	(JPL-HK)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA? K (R5) //4860	CW	21-6-2012	Thu	1919	(JPL-HK)
6840	M89	VVV (x3) Q2M DE NYZ (x2) QSA? K in progress	CW	7-6-2012	Thu	0922	(JPL-HK)
6840	M89	VVV Q2M Q2M Q2M DE NYZ NYZ QSA? K //10640 kHz	CW	16-6-2012	Sat	1020	(AB-HK)
6846	M32	Russian Mil. WOOJ wkg PWVU	CW	22-5-2012	Tue	2320	(BCI)
6857	M12	850 000	CW	28-5-2012	Mon	0430	(FN)
6857	M12	850 000	CW	4-6-2012	Mon	0430	(FN)
6887	G06	842 408 15 79564 37589 26742 58438 82725 15842 29645 20946 26846 98012 48364 10897 47385 25741 68490 408 15 00000	AM	14-6-2012	Thu	1830	(Spec)
6887	G06	842 408 15 79564 37589 26742 58438 82725 15842 29645 20946 26846 98012 48364 10897 47385 25741 68490 408 15 00000	AM	28-6-2012	Thu	1830	(Spec)
6897	M51	FAV22: CSTEI Faviers. Plain text intro to lecon vitesse	CW	10-6-2012	Sun	2330	(LesG)
6904	M12	257 1	CW	4-6-2012	Mon	1940	(HFD)
6904	M12	257 1	CW	11-6-2012	Mon	1840	(HFD)
6904	M12	257 1 1161 71 31442	CW	11-6-2012	Mon	1640	(FN)
6904	M12	257 1 1392 47 47779	CW	14-6-2012	Thu	1940	(FN)
6904	M12	257 1 2961 65 70326	CW	11-6-2012	Mon	1840	(FN)
6904	M12	257 1 3711 64 93625	CW	28-5-2012	Mon	1840	(FN)
6904	M12	257 1 406 73 28701	CW	4-6-2012	Mon	1940	(FN)
6904	M12	257 1 4156 73 72744	CW	14-6-2012	Thu	1740	(FN)
6904	M12	257 1 4206 73 38161	CW	28-5-2012	Mon	1740	(FN)
6904	M12	257 1 5806 60 75319	CW	28-5-2012	Mon	1940	(FN)
6904	M12	257 1 6719 67 26095	CW	4-6-2012	Mon	1800	(FN)
6904	M12	257 1 6835 50 89399	CW	11-6-2012	Mon	1940	(FN)
6904	M12	257 1 7276 88 33905	CW	7-6-2012	Thu	1740	(FN)
6904	M12	257 1 8341 79 04661	CW	11-6-2012	Mon	1740	(FN)
6904	M12	257 1 9241 77 89909	CW	4-6-2012	Mon	1740	(FN)
6904	M12	257 1 9516 40 85077	CW	7-6-2012	Thu	1940	(FN)
6948	G06	215 215 215 00000	AM	4-6-2012	Mon	0800	(HS2)
6984	S06	349 0	AM	21-6-2012	Thu	1905	(HFD)
7039.4	MX	Beacon "M"	CW	17-6-2012	Sun	1857	(AB-HK)
7039.4	MX	Beacon "M"	CW	22-6-2012	Fri	1305	(AB-HK)
7041	M32	Russian Mil: BYLA BYLA DE QHAD RPTK RK LGED LGED DE QHAD K	CW	12-4-2012		2333	(Santi)
7041	M32	Russian Mil: DJDS radio checks with OMV6, GYEE, YCYA, XWR8, 6BMU, OMVZ	CW	1-5-2012		1430	(IARUMS)
7166	M21	PVO id 9	CW	8-5-2012		1615	(IARUMS)
7335	S06s	745-280/6=92456	USB	13-6-2012	Wed	0730	(HFD)
7437	E07a	411 0	AM	7-6-2012	Thu	0430	(HFD)

Freq.	enigma	remarks	mode	date	day	UTC	contributor
7437	E07a	411 1 30209 207 55 78572 44140 26430 65952 ... 000 000	AM	14-6-2012	Thu	0430	(Spec)
7437	E07a	411 1 30704 538 77 12210 81091 59779 07174 ... 000 000	AM	21-6-2012	Thu	0430	(Spec)
7473	E07a	147 0	AM	6-6-2012	Wed	2020	(HFD)
7473	E07a	147 1 30209 207 55 78572 44140 26430 ... 000 000	AM	13-6-2012	Wed	2020	(Spec)
7473	E07a	147 1 30704 538 77 12210 81091 59779 ... 000 000	AM	20-6-2012	Wed	2020	(Spec)
7473	E07a	147 1-30209	AM	13-6-2012	Wed	2020	(HFD)
7557	M12	850 000	CW	28-5-2012	Mon	0450	(FN)
7557	M12	850 000	CW	4-6-2012	Mon	0450	(FN)
7582	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	30-5-2012	Wed	0943	(JPL-HK)
7582	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	31-5-2012	Thu	0056	(JPL-HK)
7582	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	31-5-2012	Thu	1244	(JPL-HK)
7582	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	31-5-2012	Thu	1347	(JPL-HK)
7582	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	13-6-2012	Wed	2326	(JPL-HK)
7582	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW	28-5-2012	Mon	0144	(JPL-HK)
7582	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW	29-5-2012	Tue	0130	(JPL-HK)
7582	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW	29-5-2012	Tue	0210	(JPL-HK)
7582	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW	30-5-2012	Wed	0006	(JPL-HK)
7582	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW	7-6-2012	Thu	0227	(JPL-HK)
7582	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW	7-6-2012	Thu	0928	(JPL-HK)
7582	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW	10-6-2012	Sun	0157	(JPL-HK)
7582	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW	25-6-2012	Mon	0933	(JPL-HK)
7607	M89	V WITN (x3) D E GNXG (x2) (Cont'd)	CW	11-6-2012	Mon	1103	(JPL-HK)
7607	M89	V WITN (x3) D E GNXG (x2) (Cont'd)	CW	11-6-2012	Mon	1749	(JPL-HK)
7607	M89	V WITN (x3) D E GNXG (x2) (Cont'd)	CW	11-6-2012	Mon	1915	(JPL-HK)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	30-5-2012	Wed	2314	(JPL-HK)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	4-6-2012	Mon	1243	(JPL-HK)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	4-6-2012	Mon	1611	(JPL-HK)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	4-6-2012	Mon	2017	(JPL-HK)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	6-6-2012	Wed	1233	(JPL-HK)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	6-6-2012	Wed	1614	(JPL-HK)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	6-6-2012	Wed	1738	(JPL-HK)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	6-6-2012	Wed	2146	(JPL-HK)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	7-6-2012	Thu	2048	(JPL-HK)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	10-6-2012	Sun	1149	(JPL-HK)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	10-6-2012	Sun	2217	(JPL-HK)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	12-6-2012	Tue	1717	(JPL-HK)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	12-6-2012	Tue	1943	(JPL-HK)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	12-6-2012	Tue	2030	(JPL-HK)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	15-6-2012	Fri	1653	(JPL-HK)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	15-6-2012	Fri	1850	(JPL-HK)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	15-6-2012	Fri	2106	(JPL-HK)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	15-6-2012	Fri	2255	(JPL-HK)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	21-6-2012	Thu	1117	(JPL-HK)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	25-6-2012	Mon	1109	(JPL-HK)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	26-5-2012	Sat	2106	(JPL-HK)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	27-5-2012	Sun	1229	(JPL-HK)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	27-5-2012	Sun	1616	(JPL-HK)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	27-5-2012	Sun	1910	(JPL-HK)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	28-5-2012	Mon	2126	(JPL-HK)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	29-5-2012	Tue	1134	(JPL-HK)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	29-5-2012	Tue	1429	(JPL-HK)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	29-5-2012	Tue	1618	(JPL-HK)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	29-5-2012	Tue	2118	(JPL-HK)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	30-5-2012	Wed	1747	(JPL-HK)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	30-5-2012	Wed	1947	(JPL-HK)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	31-5-2012	Thu	1246	(JPL-HK)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	31-5-2012	Thu	1355	(JPL-HK)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	31-5-2012	Thu	1828	(JPL-HK)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	7-6-2012	Thu	1743	(JPL-HK)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	8-6-2012	Fri	1243	(JPL-HK)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	9-6-2012	Sat	1800	(JPL-HK)
7607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	10-6-2012	Sun	1416	(JPL-HK)

Freq. enigma remarks	mode	date	day	UTC	contributor
7607 M89 V WITN (x3) DE GNXXG (x2) (Cont'd) //4590	CW	10-6-2012	Sun	1648	(JPL-HK)
7607 M89 V WITN (x3) DE GNXXG (x2) (Cont'd) //4590	CW	10-6-2012	Sun	1850	(JPL-HK)
7607 M89 V WITN (x3) DE GNXXG (x2) (Cont'd) //4590	CW	10-6-2012	Sun	2049	(JPL-HK)
7607 M89 V WITN (x3) DE GNXXG (x2) (Cont'd) //4590	CW	13-6-2012	Wed	1643	(JPL-HK)
7607 M89 V WITN (x3) DE GNXXG (x2) (Cont'd) //4590	CW	20-6-2012	Wed	1625	(JPL-HK)
7607 M89 V WITN (x3) DE GNXXG (x2) (Cont'd) //4590	CW	20-6-2012	Wed	2045	(JPL-HK)
7607 M89 V WITN (x3) DE GNXXG (x2) (Cont'd) //4590	CW	21-6-2012	Thu	1235	(JPL-HK)
7607 M89 V WITN (x3) DE GNXXG (x2) (Cont'd) //4590	CW	21-6-2012	Thu	1649	(JPL-HK)
7607 M89 V WITN (x3) DE GNXXG (x2) (Cont'd) //4590	CW	21-6-2012	Thu	1918	(JPL-HK)
7607 M89 V WITN (x3) DE GNXXG (x2) RMKS 4096 TO .01. 2385 1675 402. BT //4590	CW	23-6-2012	Sat	1208	(JPL-HK)
7607 M89 v WITN WITN WITN de GNXXG GNXXG	CW	6-6-2012	Wed	1825	(FN)
7607 M89 v WITN WITN WITN de GNXXG GNXXG GNXXG	CW	26-5-2012	Sat	2030	(FN)
7608 E06 759 416 30 81282 03181 77893 ... 416 30 00000	AM	2-6-2012	Sat	0130	(Spec)
7608 E06 759 416 30 81282 03181 77893 ... 416 30 00000	AM	3-6-2012	Sun	0130	(Spec)
7608 E06 759 814 32 87307 12936 00152 ... 814 32 00000	AM	9-6-2012	Sat	0130	(Spec)
7608 E06 759 814 32 87307 12936 00152 ... 814 32 00000	AM	10-6-2012	Sun	0130	(Spec)
7608 E06 759 814 32 87307 12936 etc	AM	10-6-2012	Sun	0030	(AB-D)
7739 VC01 Chinese Robot in progress	USB	16-6-2012	Sat	1023	(AB-HK)
7739 VC01 Chinese Robot in progress	USB	16-6-2012	Sat	0935	(NC-J)
7739 VC01 Chinese Robot in progress	USB	17-6-2012	Sun	0800	(NC-J)
7739 VC01 Chinese Robot in progress	USB	21-6-2012	Thu	1017	(AB-HK)
7739 VC01 Chinese Robot in progress	USB	24-6-2012	Sun	0518	(AB-HK)
7739 VC01 Chinese Robot in progress	USB	30-6-2012	Sat	1159	(AB-HK)
7739 VC01 Chinese Robot in progress	USB	18-8-2012		0811	(AB-HK)
7766.0 S06 481	USB	6-6-2012	Wed	1200	(FMB)
7843 M12 828 1 487 153 26709	CW	1-6-2012	Fri	1910	(FN)
7843 M12 828 1 693 247 83233	CW	10-6-2012	Sun	1910	(FN)
7844.0 M51 ip	CW	7-6-2012	Thu	1828	(FMB)
7844.0 M51 ip	AM	8-6-2012	Fri	1846	(FMB)
7884 S06 843 0	AM	9-6-2012	Sat	1930	(HFD)
7931 M12 257 1	CW	4-6-2012	Mon	1920	(HFD)
7931 M12 257 1	CW	11-6-2012	Mon	1820	(HFD)
7931 M12 257 1 1161 71 31442	CW	11-6-2012	Mon	1620	(FN)
7931 M12 257 1 1392 47 47779	CW	14-6-2012	Thu	1920	(FN)
7931 M12 257 1 2961 65 70326	CW	11-6-2012	Mon	1820	(FN)
7931 M12 257 1 3711 64 93625	CW	28-5-2012	Mon	1820	(FN)
7931 M12 257 1 406 73 28701	CW	4-6-2012	Mon	1920	(FN)
7931 M12 257 1 4156 73 72744	CW	14-6-2012	Thu	1720	(FN)
7931 M12 257 1 4206 73 38161	CW	28-5-2012	Mon	1720	(FN)
7931 M12 257 1 5806 60 75319	CW	28-5-2012	Mon	1920	(FN)
7931 M12 257 1 6719 67 26095	CW	4-6-2012	Mon	1800	(FN)
7931 M12 257 1 6835 50 89399	CW	11-6-2012	Mon	1920	(FN)
7931 M12 257 1 7276 88 33905	CW	7-6-2012	Thu	1720	(FN)
7931 M12 257 1 8341 79 04661	CW	11-6-2012	Mon	1720	(FN)
7931 M12 257 1 9241 77 89909	CW	4-6-2012	Mon	1720	(FN)
7931 M12 257 1 9516 40 85077	CW	7-6-2012	Thu	1920	(FN)
7978 M42 Russian Gov/Intel. Traffic. Mark after 50 groups	Baudot 50/500	25-5-2012	Fri	0629	(BCI)
7982 S06 349 0	AM	4-6-2012	Mon	1900	(HFD)
7982 S06 349 0	AM	11-6-2012	Mon	1900	(HFD)
7982 S06 349 0	AM	28-6-2012	Thu	1900	(HFD)
7984 M12 911 000	CW	7-6-2012	Thu	0630	(FN)
7984 M12 911 000	CW	14-6-2012	Thu	0630	(FN)
8009.0 M08a Weak. Caught IP.	CW	20-6-2012	Wed	2300	(BCA)
8040 M89 Chat/traffic: 7T57 ADUA D6AN 67U3 76AD 7346 734A 4AD3 75A5 6AUT etc.	CW	31-5-2012	Thu	1403	(JPL-HK)
8040 M89 Chat/traffic: NR 1577 CK 80 41 0601 0900 RMKS 5805 393 TO 5805 393 K == = etc	CW	1-6-2012	Fri	0123	(JPL-HK)
8040 M89 Chat/traffic: USTD In 4 fig cut number tfc	CW	31-5-2012	Thu	0058	(JPL-HK)
8040 M89 In 4 fig cut number tfc/chat "R MSG NR 138 2 CK 80 41 0530 1700 RMKS 5805 394 TO 5805 397 K"	CW	30-5-2012	Wed	0908	(JPL-HK)
8040 M89 In Chat - possibly DRV8 "GA NPT RPT KP"	CW	29-5-2012	Tue	0134	(JPL-HK)
8040 M89 V H2FL (x3) D E DRV8 (x2) (Cont'd)	CW	28-5-2012	Mon	1103	(JPL-HK)
8040 M89 V H2FL (x3) D E DRV8 (x2) (Cont'd) //6773	CW	10-6-2012	Sun	1152	(JPL-HK)

Freq.	enigma	remarks	mode	date	day	UTC	contributor
8040	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	7-6-2012	Thu	1058	(JPL-HK)
8040	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	21-6-2012	Thu	1115	(JPL-HK)
8040	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //6773	CW	26-5-2012	Sat	2205	(JPL-HK)
8040	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //6773	CW	27-5-2012	Sun	0958	(JPL-HK)
8040	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //6773	CW	1-6-2012	Fri	1203	(JPL-HK)
8040	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //6773	CW	20-6-2012	Wed	1050	(JPL-HK)
8040	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //6773	CW	25-6-2012	Mon	1106	(JPL-HK)
8040	M89	V YMN5 DE USSS In Chat/tfc "R QSL 0905 K NR 15/EX 0906 RMKS ..8850 4284 K"	CW	30-5-2012	Wed	0104	(JPL-HK)
8047	M12	463 1	CW	6-6-2012	Wed	1700	(HFD)
8047	M12	463 1 3352 64 37704	CW	13-6-2012	Wed	1700	(FN)
8047	M12	463 1 9707 49 56224	CW	6-6-2012	Wed	1700	(FN)
8088	E11a	412/34 Attention 90010 27076 34980 00128 89424 ...	USB	11-6-2012	Mon	1730	(Spec)
8088	E11a	412/34 Attention 90010 27076 34980 00128 89424 ...	USB	14-6-2012	Thu	1730	(Spec)
8110	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	1-6-2012	Fri	0205	(JPL-HK)
8110	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW	28-5-2012	Mon	0144	(JPL-HK)
8110	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW	29-5-2012	Tue	0130	(JPL-HK)
8110	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW	29-5-2012	Tue	0210	(JPL-HK)
8110	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW	30-5-2012	Wed	0006	(JPL-HK)
8110	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW	7-6-2012	Thu	0227	(JPL-HK)
8110	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW	7-6-2012	Thu	0928	(JPL-HK)
8110	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW	10-6-2012	Sun	0157	(JPL-HK)
8110	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW	25-6-2012	Mon	0933	(JPL-HK)
8116	M12	124 1	CW	5-6-2012	Tue	1910	(HFD)
8116	M12	124 1	CW	7-6-2012	Thu	1840	(HFD)
8116	M12	124 1 1534 92 61423	CW	14-6-2012	Thu	1840	(FN)
8116	M12	124 1 247 98 31600	CW	12-6-2012	Tue	1910	(FN)
8116	M12	124 1 513 58 54608	CW	8-6-2012	Fri	1840	(FN)
8116	M12	124 1 5504 65 15320	CW	7-6-2012	Thu	1840	(FN)
8116	M12	124 1 5736 84 42487	CW	15-6-2012	Fri	1840	(FN)
8116	M12	124 1 662 55 47663	CW	1-6-2012	Fri	1840	(FN)
8116	M12	124 1 689 49 80859	CW	5-6-2012	Tue	1910	(FN)
8116	M12	124 1 7428 72 64135	CW	14-6-2012	Thu	1740	(FN)
8116	M12	124 1 8449 80 03254	CW	7-6-2012	Thu	1740	(FN)
8135.0	M08a	Blocked by a strong wideband digital signal.	CW	21-6-2012	Thu	2300	(BCA)
8137	E07a	411 0	AM	7-6-2012	Thu	0450	(HFD)
8137	E07a	411 1 30209 207 55 78572 44140 26430 65952 ... 000 000	AM	14-6-2012	Thu	0450	(Spec)
8137	E07a	411 1 30704 538 77 12210 81091 59779 07174 ... 000 000	AM	21-6-2012	Thu	0450	(Spec)
8142	E06	759 416 30 81082 03181 21910 45171 416 30 00000	AM	2-6-2012	Sat	0030	(Dan)
8142	E06	759 416 30 81282 03181 77893 ... 416 30 00000	AM	2-6-2012	Sat	0030	(Spec)
8142	E06	759 416 30 81282 03181 77893 ... 416 30 00000	AM	3-6-2012	Sun	0030	(Spec)
8142	E06	759 814 32 87307 12936 00152 ... 814 32 00000	AM	9-6-2012	Sat	0030	(Spec)
8142	E06	759 814 32 87307 12936 00152 ... 814 32 00000	AM	10-6-2012	Sun	0030	(Spec)
8142	E06	759 814 32 87307 12936 etc	AM	10-6-2012	Sun	0030	(AB-D)
8142	E06	OM/EE 759, 416, 30, 5FGs x2	AM	2-6-2012	Sat	0143	(Haz)
8142.0	E06	Russian Man, nice and clear.	USB	3-6-2012	Sun	0030	(Saber)
8142.0	E06	Russian Man, very clear.	USB	10-6-2012	Sun	0030	(Saber)
8157	S06	134 0	AM	16-6-2012	Sat	1600	(HFD)
8173	E07a	147 0	AM	6-6-2012	Wed	2000	(HFD)
8173	E07a	147 1 30209 207 55 78572 44140 26430 ... 000 000	AM	13-6-2012	Wed	2000	(Spec)
8173	E07a	147 1 30704 538 77 12210 81091 59779 ... 000 000	AM	20-6-2012	Wed	2000	(Spec)
8173	E07a	147 1-30209-207/55 =78572	AM	13-6-2012	Wed	2000	(HFD)
8173	M12	111 000	CW	5-6-2012	Tue	0340	(FN)
8173	M12	111 000	CW	7-6-2012	Thu	0340	(FN)
8192.0	M42	Russian Intel.	FSK 200/1000Hz	6-6-2012	Wed	1220	(FMB)
8220	S06s	967	USB	6-6-2012	Wed	1240	(HFD)
8313	XSL	Japanese Navy a.k.a. Slot Machine	QPSK 1500bd	27-5-2012	Sun	1218	(AB-HK)
8345	M32a	RFH70: Russian Navy clg rcv qyt4 qsa? - qsx 10984/14600 - qyt4 qsx 14600 qcm - qyt4 qsx 19984/13244	CW	26-5-2012	Sat	0550	(WP3)
8345	M32a	RGV82: Russian Navy vessel qso RMP qsa3 k ok qsu1 qwh 4092 qsx 4146 k - qsu1 sk	CW	28-5-2012	Mon	0909	(WP3)
8345	M32a	RMGB: Russian Navy tanker IMAN tfc to rcv rmgb 405 19 26 1000 405 =	CW	26-5-2012	Sat	0605	(WP3)

Freq. enigma remarks			mode	date	day	UTC	contributor
rjh45 rje73 = 26061 99398 10258 41698 ...							
8470	MX	L Beacon	CW	17-6-2012	Sun	0012	(LesG)
8495	MX	Beacon "C"	CW	23-6-2012	Sat	0830	(AB)
8495.2	MX	Beacon "F"	CW	17-6-2012	Sun	1857	(AB-HK)
8495.3	MX	Beacon "K"	CW	22-6-2012	Fri	1305	(AB-HK)
8496	MX	C Beacon Russian Navy Moscow	CW	3-6-2012	Sun	2310	(LesG)
8496	MX	L Beacon Russian Navy	CW	3-6-2012	Sun	2311	(LesG)
8497.8	MX	Beacon "L"	CW	5-6-2012	Tue	1616	(SW2)
8497.8	MX	Beacon "L"	CW	22-6-2012	Fri	1549	(AB)
8497.8	MX	Beacon "L"	CW	23-6-2012	Sat	0830	(AB)
8588	XSL	Japanese Navy a.k.a. Slot Machine	QPSK 1500bd	27-5-2012	Sun	1218	(AB-HK)
8703.5	XSL	Japanese Navy a.k.a. Slot Machine	QPSK 1500bd	27-5-2012	Sun	1218	(AB-HK)
8787	M89	In chat/msg. "BT GO5ZH/SX6QF BT GO5ZH/SX6QF AR"	CW	25-6-2012	Mon	0933	(JPL-HK)
8789	M89	V WITN (x3) DE GNXX (x2) (Cont'd) //10779	CW	16-6-2012	Sat	1009	(JPL-HK)
8789	M89	V WITN (x3) DE GNXX (x2) (Cont'd) //10779	CW	27-5-2012	Sun	0955	(JPL-HK)
8789	M89	V WITN (x3) DE GNXX (x2) (Cont'd) //10779	CW	28-5-2012	Mon	0148	(JPL-HK)
8789	M89	V WITN (x3) DE GNXX (x2) (Cont'd) //10779	CW	28-5-2012	Mon	0148	(JPL-HK)
8789	M89	V WITN (x3) DE GNXX (x2) (Cont'd) //10779	CW	29-5-2012	Tue	2314	(JPL-HK)
8789	M89	V WITN (x3) DE GNXX (x2) (Cont'd) //10779	CW	30-5-2012	Wed	0008	(JPL-HK)
8789	M89	V WITN (x3) DE GNXX (x2) (Cont'd) //10779	CW	30-5-2012	Wed	0945	(JPL-HK)
8789	M89	V WITN (x3) DE GNXX (x2) (Cont'd) //10779	CW	30-5-2012	Wed	1027	(JPL-HK)
8789	M89	V WITN (x3) DE GNXX (x2) (Cont'd) //10779	CW	31-5-2012	Thu	0057	(JPL-HK)
8789	M89	V WITN (x3) DE GNXX (x2) (Cont'd) //10779	CW	1-6-2012	Fri	0207	(JPL-HK)
8789	M89	V WITN (x3) DE GNXX (x2) (Cont'd) //10779	CW	1-6-2012	Fri	1206	(JPL-HK)
8789	M89	V WITN (x3) DE GNXX (x2) (Cont'd) //10779	CW	1-6-2012	Fri	2030	(JPL-HK)
8789	M89	V WITN (x3) DE GNXX (x2) (Cont'd) //10779	CW	7-6-2012	Thu	0230	(JPL-HK)
8789	M89	V WITN (x3) DE GNXX (x2) (Cont'd) //10779	CW	7-6-2012	Thu	0930	(JPL-HK)
8789	M89	V WITN (x3) DE GNXX (x2) (Cont'd) //10779	CW	7-6-2012	Thu	1056	(JPL-HK)
8789	M89	V WITN (x3) DE GNXX (x2) (Cont'd) //10779	CW	7-6-2012	Thu	1056	(JPL-HK)
8789	M89	V WITN (x3) DE GNXX (x2) (Cont'd) //10779	CW	9-6-2012	Sat	1118	(JPL-HK)
8789	M89	V WITN (x3) DE GNXX (x2) (Cont'd) //10779	CW	10-6-2012	Sun	0159	(JPL-HK)
8789	M89	V WITN (x3) DE GNXX (x2) (Cont'd) //10779	CW	10-6-2012	Sun	1004	(JPL-HK)
8789	M89	V WITN (x3) DE GNXX (x2) (Cont'd) //10779	CW	13-6-2012	Wed	2304	(JPL-HK)
8789	M89	V WITN (x3) DE GNXX (x2) (Cont'd) //10779	CW	20-6-2012	Wed	1048	(JPL-HK)
8789	M89	V WITN (x3) DE GNXX (x2) (Cont'd) //10779	CW	25-6-2012	Mon	0956	(JPL-HK)
8816	M32b	09365: Russian Naval Air Transport "qtc to rjc38 rjf94 09365 qto 0633 qrd XLWF XLMV qre 0855 qbd 13500"	CW	30-5-2012	Wed	0646	(WP3)
8816	M32b	09365: Russian Naval Air Transport qtc to rjc38 rjf94 09365 qth 6112 0918 3224 qtr 0843	CW	24-5-2012	Thu	0850	(WP3)
8816	M32b	09365: Russian Naval Air Transport qtc to rjc38 rjf94 09365 qto 0622 qrd XLMV XLLV qre 0850 qbd 14000 etc	CW	4-6-2012	Mon	0638	(WP3)
9053	M22	4XZ: IDF/Israeli Navy Haifa. Coded text	CW	19-6-2012	Tue	2330	(LesG)
9063.0	SK01	IP; Tx at 06:36Z; stopped listening at 06:37Z	RDFT	21-6-2012	Thu	0006	(KC2TTK)
9073	M24	636 125 83 = 43697	CW	9-6-2012	Sat	1830	(FN)
9086	M12	903 0	CW	6-6-2012	Wed	2120	(HFD)
9086	M12	903 000	CW	6-6-2012	Wed	2120	(FN)
9086	M12	903 000	CW	13-6-2012	Wed	2120	(FN)
9092.0	M42	Russian Gov/Intel	Baudot 200/500 Hz	7-6-2012	Thu	1910	(FMB)
9124.0	SK01	01:56Z carrier on; faint; stopped listening at 06:13Z	RDFT	21-6-2012	Thu	0006	(KC2TTK)
9124.5	M32	HLNI: Russian military net-control station. Radio checks with NPHL and SO8O	CW	27-6-2012	Wed	0332	(PPA)
9132	M32a	Russian Navy "ZR U ZZR Z GS QS U1 QYT 6 Q U6 K KAS"	CW	7-6-2012	Thu	1324	(LesG)
9134	M32	4I24: Russian military: YR8A DE 4I24 QTC 078 27 24 0851 078 = 202=	CW	24-6-2012	Sun	0454	(PPA)
9137	E07a	411 1 30209 207 55 78572 44140 26430 65952 ... 000 000	AM	14-6-2012	Thu	0510	(Spec)
9137	E07a	411 1 30704 538 77 12210 81091 59779 07174 ... 000 000	AM	21-6-2012	Thu	0510	(Spec)
9138	XPA	msg	MFSK	12-6-2012	Tue	1810	(HFD)
9140	M42	Russian Gov., St Petersburg: RUU70 ckg RRF30 "VVV RRF 30 RRF 30 RRF 30 DE RUU 70 RUU 70 ZHC~ ZHC~" into msg in RUS-ARQ	CW / RUS-ARQ 100/500	7-6-2012	Thu	0750	(BCI)
9144	M21	PVO BT99?1724?9????, BT99?1726?9????, BT99?1728?9????, BT99?1728?9????, BT99?173T?9????, BT99?1732?9????	CW	16-6-2012	Sat	1342	(Token)
9145	M32a	RIW: Navy HQ Moscow in contact with RGR35	CW	27-6-2012	Wed	0238	(PPA)
9149	M32	XO8R: Russian military: 2UEH DE XO8R	CW	27-6-2012	Wed	0300	(PPA)
9173	M12	111 000	CW	5-6-2012	Tue	0400	(FN)

Freq.	enigma	remarks	mode	date	day	UTC	contributor
9173	M12	111 000	CW	7-6-2012	Thu	0400	(FN)
9176	M12	257 1	CW	4-6-2012	Mon	1900	(HFD)
9176	M12	257 1	CW	11-6-2012	Mon	1800	(HFD)
9176	M12	257 1 1161 71 31442	CW	11-6-2012	Mon	1600	(FN)
9176	M12	257 1 1392 47 47779	CW	14-6-2012	Thu	1900	(FN)
9176	M12	257 1 2961 65 70326	CW	11-6-2012	Mon	1800	(FN)
9176	M12	257 1 3711 64 93625	CW	28-5-2012	Mon	1800	(FN)
9176	M12	257 1 406 73 28701	CW	4-6-2012	Mon	1900	(FN)
9176	M12	257 1 4156 73 72744	CW	14-6-2012	Thu	1700	(FN)
9176	M12	257 1 4206 73 38161	CW	28-5-2012	Mon	1700	(FN)
9176	M12	257 1 5806 60 75319	CW	28-5-2012	Mon	1900	(FN)
9176	M12	257 1 6719 67 26095	CW	4-6-2012	Mon	1800	(FN)
9176	M12	257 1 6835 50 89399	CW	11-6-2012	Mon	1900	(FN)
9176	M12	257 1 7276 88 33905	CW	7-6-2012	Thu	1700	(FN)
9176	M12	257 1 8341 79 04661	CW	11-6-2012	Mon	1700	(FN)
9176	M12	257 1 9241 77 89909	CW	4-6-2012	Mon	1700	(FN)
9176	M12	257 1 9516 40 85077	CW	7-6-2012	Thu	1900	(FN)
9176	M12	257 257 257 1 = non repeated 5F group msg ending 000 000	CW	25-6-2012	Mon	1900	(PPA)
9184	M12	911 000	CW	7-6-2012	Thu	0650	(FN)
9184	M12	911 000	CW	14-6-2012	Thu	0650	(FN)
9206.0	M51	ip	CW	19-6-2012	Tue	0610	(FMB)
9234.0	M42	Russian Intel.	FSK 200/1000Hz	29-6-2012	Fri	0720	(FMB)
9243	M12	828 1 487 153 26709	CW	1-6-2012	Fri	1850	(FN)
9243	M12	828 1 693 247 83233	CW	10-6-2012	Sun	1850	(FN)
9246	M12	124 1 662 55 47663	CW	1-6-2012	Fri	1820	(FN)
9264	M12	124 1	CW	5-6-2012	Tue	1850	(HFD)
9264	M12	124 1	CW	7-6-2012	Thu	1820	(HFD)
9264	M12	124 1 1534 92 61423	CW	14-6-2012	Thu	1820	(FN)
9264	M12	124 1 247 98 31600	CW	12-6-2012	Tue	1850	(FN)
9264	M12	124 1 513 58 54608	CW	8-6-2012	Fri	1820	(FN)
9264	M12	124 1 5504 65 15320	CW	7-6-2012	Thu	1820	(FN)
9264	M12	124 1 5736 84 42487	CW	15-6-2012	Fri	1820	(FN)
9264	M12	124 1 689 49 80859	CW	5-6-2012	Tue	1850	(FN)
9264	M12	124 1 7428 72 64135	CW	14-6-2012	Thu	1720	(FN)
9264	M12	124 1 8449 80 03254	CW	7-6-2012	Thu	1720	(FN)
9276	V13	New Star #3. Flute intro + coded messages	USB	18-6-2012	Mon	0700	(AB-HK)
9276	V13	New Star #3. Musical intro followed by coded messages	USB	22-6-2012	Fri	0700	(AB-HK)
9276	V13	New Star #3. Musical intro followed by coded messages	USB	23-6-2012	Sat	0800	(AB-HK)
9276	V13	New Star in progress	USB	28-5-2012	Mon	0810	(AB-HK)
9276	V13	New Star in progress	USB	21-6-2012	Thu	0713	(AB-HK)
9276	V13	New Star in progress	USB	23-6-2012	Sat	0705	(AB-HK)
9276	V13	New Star in progress	USB	18-8-2012		0808	(AB-HK)
9327	M12	938 1	CW	6-6-2012	Wed	1910	(HFD)
9327	M12	938 1 441 96 93290	CW	13-6-2012	Wed	1910	(FN)
9327	M12	938 1 689 49 80859	CW	6-6-2012	Wed	1910	(FN)
9450	E25	280..RBT..280..EOM EOT	AM	27-6-2012	Wed	1206	(FN)
9450	E25	557 8 ...	AM	18-6-2012	Mon	1230	(FG)
9450	E25	folklore music	AM	28-5-2012	Mon	1205	(FG)
9450	E25	Music "Arouh Le-min" YL. 555 (rptd) 8090 3170 4012 5728 9985 4930 2311 8333 3170	AM	17-6-2012	Sun	1228	(AIK)
9683.0	G06	154 00000	USB	6-6-2012	Wed	1200	(FMB)
9938	XPA	msg	MFSK	12-6-2012	Tue	1750	(HFD)
9986	M12	903 0	CW	6-6-2012	Wed	2100	(HFD)
9986	M12	903 000	CW	6-6-2012	Wed	2100	(FN)
9986	M12	903 000	CW	13-6-2012	Wed	2100	(FN)
10173	XPA	101 000 05746 00001 00000 10140	MFSK	5-6-2012	Tue	0440	(HS2)
10173	XPA	msg	MFSK	5-6-2012	Tue	0440	(HFD)
10201	M32a	RBIZ: Pos PM-138 Floating Workshop tc to RCV RBIZ 849 17 30 2200 849 = FOR RJE73 RJH45 = 30181 99349 10358 41597 92304 10250 00155 52005 70000 89999 22200 00228 20000 88000 30014 = + RBIZ	CW	30-5-2012	Wed	1804	(Tom)
10201	M32a	RBIZ: Pos PM-138 Floating Workshop tfc to RCV RBIZ 403 17 30 1000 403 = FOR RJE73 RJH45 = 30061 99349 10358 41598 42306 10250 4013? 54032 70100 84100 22200 00224 20000 88000 30014 = + RBIZ	CW	30-5-2012	Wed	0605	(Tom)

Freq.	enigma	remarks	mode	date	day	UTC	contributor
10227	MX	sends VVVV VVVV VVVV	CW	22-6-2012	Fri	0927	(LesG)
10230	S06	831 831 831 00000	AM	28-5-2012	Mon	1200	(tING)
10230	S06s	831-502/6=28786	USB	4-6-2012	Mon	1200	(HFD)
10310	M32a	RRI2: Russian navy duplex net, QSA checks with RQR2 ,RMW2 and RHYH	CW	10-6-2012	Sun	0450	(PPA)
10310	M42	Russian Gov/Intel. ITU says RKA76, Moscow-Kubinka area	Baudot 50/500	31-5-2012	Thu	0759	(TJ)
10313	M51	French military intel Favieres 5L message after = 74 J 11 20:10:14 1984 =	CW	10-6-2012	Sun	1810	(PPA)
10313.0	M51	ip	CW	7-6-2012	Thu	1828	(FMB)
10343	M12	124 1	CW	5-6-2012	Tue	1830	(HFD)
10343	M12	124 1	CW	7-6-2012	Thu	1800	(HFD)
10343	M12	124 1 1534 92 61423	CW	14-6-2012	Thu	1800	(FN)
10343	M12	124 1 247 98 31600	CW	12-6-2012	Tue	1830	(FN)
10343	M12	124 1 513 58 54608	CW	8-6-2012	Fri	1800	(FN)
10343	M12	124 1 5736 84 42487	CW	15-6-2012	Fri	1800	(FN)
10343	M12	124 1 662 55 47663	CW	1-6-2012	Fri	1800	(FN)
10343	M12	124 1 689 49 80859	CW	5-6-2012	Tue	1830	(FN)
10343	M12	124 1 7428 72 64135	CW	14-6-2012	Thu	1700	(FN)
10343	M12	124 1 8449 80 03254	CW	7-6-2012	Thu	1700	(FN)
10343	M12	124 124 124 1 5504 65 message 15320 ending 000 000	CW	7-6-2012	Thu	1801	(PPA)
10343	M12	24 1 5504 65 15320	CW	7-6-2012	Thu	1800	(FN)
10362	M32	SGPM: Russian military SGPM QTC 406 52 12 2118 406 = ZGL 964 = (5L msg)	CW	12-6-2012	Tue	1726	(PPA)
10375	M97	In progress - SD 70 SN 100	CW	8-6-2012	Fri	1501	(JPL-AUS)
10375	M97	SD 70 SN 100	CW	7-6-2012	Thu	1500	(JPL-HK)
10375	M97	SD 70 SN 100	CW	29-6-2012	Fri	1500	(JPL-HK)
10375	M97	SD 71 SN 30	CW	12-6-2012	Tue	1459	(JPL)
10375	M97	SD 71 SN 30	CW	13-6-2012	Wed	1500	(JPL)
10375	M97	SD71 SN30 70397 etc	CW	11-6-2012	Mon	1500	(AnEur)
10380	M42	Russian Gov/Intel. prob Kola/Karelia in traffic, later arq system bursts	Baudot 50/500	31-5-2012	Thu	0801	(TJ)
10394	M32	NU9B: Russian military RSF message	CW	7-6-2012	Thu	1758	(PPA)
10436	E07	414 1	AM	6-6-2012	Wed	1740	(HFD)
10436	E07	414 1 580 38 58687 10543 etc	AM	10-6-2012	Sun	1740	(AB-D)
10438	XPA	msg	MFSK	12-6-2012	Tue	1730	(HFD)
10445.0	M08a	IP. Missed callups. Readable signal.	USB	21-6-2012	Thu	0300	(BCA)
10538	M32	9LSL: CIS military. Duplex radio checks with VDOS and PDQH	CW	25-5-2012	Fri	0407	(PPA)
10538	M32	DKY: CIS military. WT2I DE DCKY QTC 117 72 28 1045 117 = 897 = AAAAA	CW	28-5-2012	Mon	0756	(PPA)
10543	M32a	RCV: Navy Sevastopol calls to RKZ , RMGB , RFH70	CW	26-5-2012	Sat	1909	(PPA)
10548.5	DPRK	North Korean diplo	DPRK-ARQ 600/600	28-5-2012	Mon	0600	(PPA)
10591	MC03	Chinese Air Defense: coded figure message using cut numbers AU34567DNT	CW	24-5-2012	Thu	1849	(PPA)
10598	M12	938 1	CW	6-6-2012	Wed	1850	(HFD)
10598	M12	938 1 441 96 93290	CW	13-6-2012	Wed	1850	(FN)
10598	M12	938 1 689 49 80859	CW	6-6-2012	Wed	1850	(FN)
10617	M12	263 000	CW	27-5-2012	Sun	1850	(FN)
10640	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) // 6840	CW	29-5-2012	Tue	2320	(JPL-HK)
10640	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	27-5-2012	Sun	1020	(JPL-HK)
10640	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	28-5-2012	Mon	1120	(JPL-HK)
10640	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	29-5-2012	Tue	1120	(JPL-HK)
10640	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	30-5-2012	Wed	2320	(JPL-HK)
10640	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	9-6-2012	Sat	1120	(JPL-HK)
10640	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	10-6-2012	Sun	0220	(JPL-HK)
10640	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	10-6-2012	Sun	1020	(JPL-HK)
10640	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	11-6-2012	Mon	1220	(JPL-HK)
10640	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	13-6-2012	Wed	2320	(JPL-HK)
10640	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	14-6-2012	Thu	1020	(JPL-HK)
10640	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	16-6-2012	Sat	1020	(JPL-HK)
10640	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	20-6-2012	Wed	1120	(JPL-HK)
10640	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	23-6-2012	Sat	1220	(JPL-HK)
10640	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	25-6-2012	Mon	1120	(JPL-HK)
10640	M89	VVV (x3) Q2M DE NYZ (x2) QSA? K (R5) //6840	CW	1-6-2012	Fri	1220	(JPL-HK)
10640	M89	VVV (x3) Q2M DE NYZ (x2) QSA? K (R5) //6840	CW	6-6-2012	Wed	1220	(JPL-HK)
10640	M89	VVV (x3) Q2M DE NYZ (x2) QSA? K (R5) //6840	CW	7-6-2012	Thu	1120	(JPL-HK)
10640	M89	VVV (x3) Q2M DE NYZ (x2) QSA? K (R5) //6840	CW	21-6-2012	Thu	1120	(JPL-HK)
10640	M89	VVV Q2M Q2M Q2M DE NYZ NYZ QSA? K //6840 kHz	CW	16-6-2012	Sat	1020	(AB-HK)
10711	M12	546 1 4048 83 95998	CW	4-6-2012	Mon	1640	(FN)

Freq.	enigma	remarks	mode	date	day	UTC	contributor
10711	M12	546 1 662 55 47663	CW	28-5-2012	Mon	1640	(FN)
10714	E07	273 0	AM	7-6-2012	Thu	2030	(HFD)
10761.0	M42	Russian Intel.	FSK 200/1000Hz	6-6-2012	Wed	1210	(FMB)
10779	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	29-5-2012	Tue	0102	(JPL-HK)
10779	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	11-6-2012	Mon	1102	(JPL-HK)
10779	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //8789	CW	16-6-2012	Sat	1009	(JPL-HK)
10779	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //8789	CW	27-5-2012	Sun	0955	(JPL-HK)
10779	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //8789	CW	28-5-2012	Mon	0148	(JPL-HK)
10779	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //8789	CW	28-5-2012	Mon	1058	(JPL-HK)
10779	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //8789	CW	29-5-2012	Tue	2314	(JPL-HK)
10779	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //8789	CW	30-5-2012	Wed	0008	(JPL-HK)
10779	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //8789	CW	30-5-2012	Wed	0945	(JPL-HK)
10779	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //8789	CW	30-5-2012	Wed	1027	(JPL-HK)
10779	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //8789	CW	31-5-2012	Thu	0057	(JPL-HK)
10779	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //8789	CW	1-6-2012	Fri	0207	(JPL-HK)
10779	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //8789	CW	1-6-2012	Fri	1206	(JPL-HK)
10779	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //8789	CW	1-6-2012	Fri	2030	(JPL-HK)
10779	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //8789	CW	7-6-2012	Thu	0230	(JPL-HK)
10779	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //8789	CW	7-6-2012	Thu	0930	(JPL-HK)
10779	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //8789	CW	7-6-2012	Thu	1056	(JPL-HK)
10779	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //8789	CW	7-6-2012	Thu	1056	(JPL-HK)
10779	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //8789	CW	9-6-2012	Sat	1118	(JPL-HK)
10779	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //8789	CW	10-6-2012	Sun	0158	(JPL-HK)
10779	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //8789	CW	10-6-2012	Sun	1004	(JPL-HK)
10779	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //8789	CW	13-6-2012	Wed	2304	(JPL-HK)
10779	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //8789	CW	20-6-2012	Wed	1048	(JPL-HK)
10779	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //8789	CW	25-6-2012	Mon	0956	(JPL-HK)
10800	E11	416/00	USB	4-6-2012	Mon	0450	(HS2)
10800	E11a	412/34 Attention 90010 27076 34980 00128 89424 ...	USB	11-6-2012	Mon	0450	(Spec)
10800	E11a	412/34 Attention 90010 27076 34980 00128 89424 ...	USB	14-6-2012	Thu	0450	(Spec)
10843	M12	828 1 487 153 26709	CW	1-6-2012	Fri	1830	(FN)
10843	M12	828 1 693 247 83233	CW	10-6-2012	Sun	1830	(FN)
10871.7	MX	Beacon "D"	CW	22-6-2012	Fri	1549	(AB)
10871.8	MX	Beacon "P"	CW	27-5-2012	Sun	1154	(AB)
10871.8	MX	Beacon "P"	CW	22-6-2012	Fri	1549	(AB)
10871.8	MX	Beacon "P"	CW	23-6-2012	Sat	1007	(AB)
10871.9	MX	Beacon "S"	CW	27-5-2012	Sun	1154	(AB)
10871.9	MX	Beacon "S"	CW	22-6-2012	Fri	1549	(AB)
10872	MX	Beacon "C"	CW	23-6-2012	Sat	0830	(AB)
10872.2	MX	Beacon "F"	CW	22-6-2012	Fri	1305	(AB-HK)
10872.2	MX	Beacon "F"	CW	1-7-2012		1312	(AB-HK)
10872.3	MX	Beacon "K"	CW	27-5-2012	Sun	1213	(AB-HK)
10872.3	MX	Beacon "K"	CW	22-6-2012	Fri	1305	(AB-HK)
10872.3	MX	Beacon "K"	CW	1-7-2012		1312	(AB-HK)
10872.4	MX	Beacon "M"	CW	27-5-2012	Sun	1213	(AB-HK)
10872.4	MX	Beacon "M"	CW	22-6-2012	Fri	1305	(AB-HK)
10872.4	MX	Beacon "M"	CW	23-6-2012	Sat	0807	(AB-HK)
10872.4	MX	Beacon "M"	CW	1-7-2012		1312	(AB-HK)
10872.4	MX	Beacon "M"	CW	17-7-2012		1857	(AB-HK)
10952.0	M01a	327(x3) 561t8(x2); 333;...	CW	9-6-2012	Sat	1213	(FMB)
11000	M32a	RIW: Russian Navy: RGR70 de riw qsu1 qwh 13086 qsx 12260 k	CW	31-5-2012	Thu	0745	(WP3)
11025.0	M42	Russian Gov/Intel	Baudot 200/500 Hz	7-6-2012	Thu	1900	(FMB)
11055	M42	Russian Gov/Intel. ITU says RIN26, Moscow area	Baudot 50/500	31-5-2012	Thu	0803	(TJ)
11068.0	M42	Russian Intel.	FSK 200/1000Hz	30-6-2012	Sat	0820	(FMB)
11073	XPA	101 000 05746 00001 00000 10140	MFSK	5-6-2012	Tue	0500	(HS2)
11073	XPA	msg	MFSK	5-6-2012	Tue	0500	(HFD)
11123.0	M42	Russian Intel.	FSK 200/1000Hz	9-6-2012	Sat	1120	(FMB)
11147	V16	2 data transmissions	200 Bd 4-FSK 400 Hz spacing	22-6-2012	Fri	1400	(Spec)
11147	V16	2 data transmissions	200 Bd 4-FSK 400 Hz spacing	22-6-2012	Fri	1410	(Spec)
11147	V16	2 data transmissions	200 Bd 4-FSK 400	22-6-2012	Fri	1420	(Spec)

Freq. enigma remarks			mode	date	day	UTC	contributor
			Hz spacing				
11147	V16	data transmission	200 Bd 4-FSK 400 Hz spacing	22-6-2012	Fri	1410	(AB-HK)
11147	V16	data transmission	200 Bd 4-FSK 400 Hz spacing	22-6-2012	Fri	1420	(AB-HK)
11147	V16	YL/CC, null message	AM	1-6-2012	Fri	1359	(Token)
11147	V16	YL/CC, null message	AM	1-6-2012	Fri	1409	(Token)
11147	V16	YL/CC, null message	AM	1-6-2012	Fri	1419	(Token)
11323	V16	2 Data Mode transmissions	200 Bd 4-FSK 400 Hz spacing	20-6-2012	Wed	1400	(Spec)
11323	V16	2 Data Mode transmissions	200 Bd 4-FSK 400 Hz spacing	20-6-2012	Wed	1410	(Spec)
11323	V16	2 Data Mode transmissions	200 Bd 4-FSK 400 Hz spacing	20-6-2012	Wed	1420	(Spec)
11323	V16	null msg	AM	30-5-2012	Wed	1400	(Token)
11323	V16	Switching error. A broadcasting station was heard during the V16 time slot	AM	6-6-2012	Wed	1358	(Token)
11323	V16	Switching error. A broadcasting station was heard during the V16 time slot	AM	6-6-2012	Wed	1408	(Token)
11323	V16	Switching error. A broadcasting station was heard during the V16 time slot	AM	6-6-2012	Wed	1418	(Token)
11354	M32b	Priboy: Russian Naval Aviation	CW	3-6-2012	Sun	0940	(LesG)
11418	M32a	RMP: Russian Navy Kaliningrad qso RGV82/8345 qsa3 k	CW	28-5-2012	Mon	0909	(WP3)
11430	V13	Chinese Numbers V13 New Star; female op; automated	USB	27-6-2012	Wed	1318	(NC)
11430	V13	New Star	USB	28-5-2012	Mon	1200	(rusl)
11430	V13	New Star	USB	28-5-2012	Mon	1300	(rusl)
11430	V13	New Star	USB	31-5-2012	Thu	1200	(rusl)
11430	V13	New Star	USB	31-5-2012	Thu	1300	(rusl)
11430	V13	New Star	USB	3-6-2012	Sun	1200	(rusl)
11430	V13	New Star	USB	3-6-2012	Sun	1300	(rusl)
11430	V13	New Star	USB	5-6-2012	Tue	1200	(rusl)
11430	V13	New Star	USB	5-6-2012	Tue	1300	(rusl)
11430	V13	New Star	USB	6-6-2012	Wed	1200	(rusl)
11430	V13	New Star	USB	6-6-2012	Wed	1300	(rusl)
11430	V13	New Star	USB	7-6-2012	Thu	1200	(Dan)
11430	V13	New Star	USB	8-6-2012	Fri	1200	(rusl)
11430	V13	New Star	USB	8-6-2012	Fri	1300	(rusl)
11430	V13	New Star	USB	9-6-2012	Sat	1200	(rusl)
11430	V13	New Star	USB	9-6-2012	Sat	1300	(rusl)
11430	V13	New Star	USB	12-6-2012	Tue	1200	(rusl)
11430	V13	New Star	USB	12-6-2012	Tue	1300	(rusl)
11430	V13	New Star #4. Musical intro followed by coded messages	USB	30-6-2012	Sat	1200	(AB-HK)
11430	V13	New Star #4. Musical intro followed by coded messages	USB	30-6-2012	Sat	1300	(AB-HK)
11430	V13	New Star #4. Musical intro followed by coded messages	USB	1-7-2012		1300	(AB-HK)
11430	V13	New Star in progress	USB	27-5-2012	Sun	1208	(AB-HK)
11430	V13	New Star in progress	USB	28-5-2012	Mon	0612	(AB-HK)
11430	V13	New Star in progress	USB	29-5-2012	Tue	0513	(AB-HK)
11430	V13	New Star in progress	USB	31-5-2012	Thu	0510	(AB-HK)
11430	V13	New Star in progress	USB	16-6-2012	Sat	0508	(AB-HK)
11430	V13	New Star in progress	USB	21-6-2012	Thu	0610	(AB-HK)
11430	V13	New Star in progress	USB	24-6-2012	Sun	0516	(AB-HK)
11430	V13	New Star in progress	USB	30-6-2012	Sat	0507	(AB-HK)
11430	V13	New Star in progress	USB	30-6-2012	Sat	0609	(AB-HK)
11430	V13	New Star in progress	USB	18-8-2012		0514	(AB-HK)
11430	V13	New Star in progress	USB	18-8-2012		0610	(AB-HK)
11430	V13	New Star. Musical intro followed by coded messages	USB	22-6-2012	Fri	1300	(AB-HK)
11435	M12	938 1	CW	6-6-2012	Wed	1830	(HFD)
11435	M12	938 1 441 96 93290	CW	13-6-2012	Wed	1830	(FN)
11435	M12	938 1 689 49 80859	CW	6-6-2012	Wed	1830	(FN)
11472	M12	344 1 454 297 77175	CW	28-5-2012	Mon	1340	(FN)
11474	M42	Russian Intel.	FSK 200/1000	8-6-2012	Fri	0709	(BCI)
11474.0	M42	Russian Intel.	FSK 200/1000Hz	29-6-2012	Fri	0710	(FMB)
11486.0	M24	343 5t6 5t6 147 147 == 7t128	CW	6-6-2012	Wed	1234	(FMB)
11486.0	M42	Russian Gov/Intel	Baudot 200/500 Hz	6-6-2012	Wed	1025	(FMB)
11493	V16	2 data transmissions	200 Bd 4-FSK 400 Hz spacing	25-6-2012	Mon	1409	(Spec)

Freq.	enigma	remarks	mode	date	day	UTC	contributor
11493	V16	2 data transmissions	200 Bd 4-FSK 400 Hz spacing	25-6-2012	Mon	1420	(Spec)
11493	V16	2 data transmissions	200 Bd 4-FSK 400 Hz spacing	25-6-2012	Mon	1400	(Spec)
11493	V16	Null msg	AM	4-6-2012	Mon	1359	(Token)
11493	V16	Null msg	AM	4-6-2012	Mon	1409	(Token)
11493	V16	Null msg	AM	4-6-2012	Mon	1418	(Token)
11500	M42	Russian Gov/Intel. Moscow area in ttc	Baudot 50/500	31-5-2012	Thu	0804	(TJ)
11524	M12	555 1 695 83 46459	CW	4-6-2012	Mon	1340	(FN)
11524	M12	555 1 723 99 13988	CW	11-6-2012	Mon	1340	(FN)
11566	M12	546 1 4048 83 95998	CW	4-6-2012	Mon	1620	(FN)
11566	M12	546 1 662 55 47663	CW	28-5-2012	Mon	1620	(FN)
11618.0	M51	ip	CW	29-6-2012	Fri	0627	(FMB)
11700	EV01	in progress	AM	27-5-2012	Sun	1328	(DG1NGO)
11830	S06s	745	USB	13-6-2012	Wed	0740	(HFD)
12083.5	M32	Russian Mil in progress:HBXNB XEMXD KBTSF BKKBZ 906 K. NKDA DE YF6C R? K. 4XT6 DE YF6C R?K. O1SH DE YF6C R? K. AWST DE YF6C R?K	CW	21-6-2012	Thu	0905	(JU)
12083.5	M32	Russian Mil: NW 4XTC DE YF6C QRV K. YF6C R 690 QTC K	CW	21-6-2012	Thu	0907	(JU)
12083.5	M32	Russian Mil: O1SH DE YF6C QTC ZLQ K. YF6C 888 33 20 1310 888=ZLQ 835= OaCYI BKKBI 906 K	CW	21-6-2012	Thu	0914	(JU)
12083.5	M32	Russian Mil: YF6C 799 32 20 1305 799= ZOW 835= UQTAG....BKKBZ 906 K	CW	21-6-2012	Thu	0912	(JU)
12093	M42	Russian Gov/Intel.	Baudot 75/500	8-6-2012	Fri	0724	(BCI)
12120	SK01	New mode. Cannot decode	EasyPal/DRM	30-6-2012	Sat	0455	(4D)
12126	M12	919 000	CW	26-5-2012	Sat	1330	(FN)
12141	E07	414 1	AM	6-6-2012	Wed	1720	(HFD)
12141	E07	414 1 580 38 58687 10543 etc	AM	10-6-2012	Sun	1720	(AB-D)
12162	M12	546 1 4048 83 95998	CW	4-6-2012	Mon	1600	(FN)
12162	M12	546 1 662 55 47663	CW	28-5-2012	Mon	1600	(FN)
12164	M12	555 1	CW	6-6-2012	Wed	1540	(HFD)
12164	M12	555 1 695 83 46459	CW	6-6-2012	Wed	1540	(FN)
12164	M12	555 1 723 99 13988	CW	13-6-2012	Wed	1540	(FN)
12165	S06s	831	USB	4-6-2012	Mon	1210	(HFD)
12173	XPA	101 000 05746 00001 00000 10140	MFSK	5-6-2012	Tue	0520	(HS2)
12173	XPA	msg	MFSK	5-6-2012	Tue	0520	(HFD)
12184	M42	Russian Gov/Intel. ITU says RHI9, Moscow area. No traffic observed	Baudot 50/500	31-5-2012	Thu	0729	(TJ)
12192.0	M42	Russian Gov/Intel	Baudot 200/500 Hz	23-6-2012	Sat	2020	(FMB)
12208.7	EGY	MFA Cairo EGY clg qqtq (Emb. Belgrade)	SITOR-A 100/170	28-5-2012	Mon	0617	(WP3)
12213	E07	273 0	AM	7-6-2012	Thu	2010	(HFD)
12213	X06b	Mazielka. Sequence: 615243	USB	8-6-2012	Fri	0845	(Spec)
12217	M12	263 000	CW	26-5-2012	Sat	1830	(FN)
12226.0	M42	Russian Intel.	FSK 200/1000Hz	6-6-2012	Wed	1200	(FMB)
12464	M32a	RGR70: Russian Navy: riw de rgr70 qsu1 qsx 13086 qwh 12260 k (nothing heard on 12260)	CW	31-5-2012	Thu	0745	(WP3)
12464	M32a	RGV82: Russian navy clg RIW ok qrr3 qdw 10388	CW	4-6-2012	Mon	0813	(WP3)
12464	M32a	RMZY: Russian navy qtc to RIW rmyz 211 178 4 1805 211 = sml for rcv = 55048 38148 31930 ...	CW	4-6-2012	Mon	1407	(WP3)
12593	M32	A5TP: Russian Military. Calls JNTG 7QWY 8WNA GXGE & GXGE without apparent response apart from prob GXGE.	CW	22-6-2012	Fri	1426	(MPJ)
12593	M32	PNIM: NCS of unid Russian mil command "xxx xxx wegi wegi 22133 izowerin 1028 3454 k"	CW	17-6-2012	Sun	1325	(TJ)
12593	M32	PNIM: NCS of unid Russian mil command signal check with participating out stations; 9DM4, KALE, LXJ6, 9ZCL, 3NMT.	CW	18-6-2012	Mon	0734	(TJ)
12593	M32	PNIM: NCS Russian mil sends qtc # 266 to outstation KALE	CW	19-6-2012	Tue	0915	(TJ)
12593	M32	PNIM: NCS Russian mil. Signal checks with out stations, sends qtc #612 to 47W6 followed by a flash message	CW	19-6-2012	Tue	1023	(TJ)
12850	E17z	674 952 8 82534 02132 90238 84253 75479 07473 29637 26987 952 8 00000	AM	7-6-2012	Thu	0810	(Spec)
12850	E17z	674 952 8 82534 02132 90238 84253 75479 07473 29637 26987 952 8 00000	AM	14-6-2012	Thu	0810	(Spec)
12924	E11	646/30=23675	USB	7-6-2012	Thu	0830	(HFD)
12924	E11a	646/30	USB	4-6-2012	Mon	0830	(Avare)
13086	M32a	RIW: Russian Navy: clg rgr70 for rc after opchat on 12464/cw	USB	31-5-2012	Thu	0748	(WP3)
13372	M12	555 1	CW	6-6-2012	Wed	1520	(HFD)
13373	M12	834 0	CW	7-6-2012	Thu	1330	(HFD)
13373	M12	834 000	CW	1-6-2012	Fri	1330	(FN)

Freq.	enigma	remarks	mode	date	day	UTC	contributor
13373	M12	834 000	CW	9-6-2012	Sat	1330	(FN)
13373	M12	834 000	CW	16-6-2012	Sat	1330	(FN)
13381.0	M42	Russian Intel.	FSK 200/1000Hz	30-6-2012	Sat	0810	(FMB)
13404	M32	Russian military RUS-75/75/250 + F1A/CW Idling with 100 bd,75 baud crypto,F1A/CW: QRJ? QRJ3 QOR	CW + digital	1-6-2012	Fri	0415	(PPA)
13404	M32	Russian military ZZT, KMLVLVMMMLLV string, coded 5L message	CW	2-6-2012	Sat	0549	(PPA)
13406.3	OLO-32	Czech intel Prague encrypted traffic	SITOR-B 100/170	4-6-2012	Mon	1849	(PPA)
13427	E11a	533/37 Attention 55362 07162 67971 19456 13086 ...	USB	25-6-2012	Mon	0900	(Spec)
13427.1	XPA2	5F message 02885 00108 08520 68926 08692	MFSK 1+12/7,5	31-5-2012	Thu	1910	(PPA)
13468	E07	414 1 580 38 58687 10543 etc	AM	10-6-2012	Sun	1700	(AB-D)
13468	E07	414 1-714/68=56982	AM	6-6-2012	Wed	1700	(HFD)
13468	E07	English O/M 414 414 1 714 78 56982 Ends 000 000	AM	3-6-2012	Sun	1601	(PPA)
13472	M12	344 1 454 297 77175	CW	28-5-2012	Mon	1320	(FN)
13481.0	M42	Russian Gov/Intel	Baudot 200/500 Hz	9-6-2012	Sat	1220	(FMB)
13481.0	M42	Russian Gov/Intel	Baudot 200/500 Hz	30-6-2012	Sat	1220	(FMB)
13524	M12	555 1 695 83 46459	CW	4-6-2012	Mon	1320	(FN)
13524	M12	555 1 723 99 13988	CW	11-6-2012	Mon	1320	(FN)
13527.7	MX	Beacon "D"	CW	22-6-2012	Fri	1639	(AB)
13527.7	MX	Beacon D: Sevastopol	CW	31-5-2012	Thu	0600	(VL)
13528	MX	Beacon "C"	CW	22-6-2012	Fri	1549	(AB)
13528	MX	Beacon C: Moscow	CW	31-5-2012	Thu	0600	(VL)
13528.1	MX	Beacon "A"	CW	27-5-2012	Sun	1154	(AB)
13528.1	MX	Beacon A: Astrakhan	CW	31-5-2012	Thu	0601	(VL)
13528.3	MX	Beacon "K"	CW	27-5-2012	Sun	1213	(AB-HK)
13528.4	MX	Beacon "M"	CW	27-5-2012	Sun	1213	(AB-HK)
13528.4	MX	Beacon "M"	CW	22-6-2012	Fri	1305	(AB-HK)
13528.4	MX	Beacon "M"	CW	23-6-2012	Sat	0807	(AB-HK)
13528.4	MX	Beacon "M"	CW	1-7-2012		1312	(AB-HK)
13528.4	MX	Beacon "M"	CW	17-7-2012		1857	(AB-HK)
13528.4	MX	Beacon "M", Magadan	CW	21-6-2012	Thu	0615	(AB-HK)
13528.4	MX	Beacon M: Magadan	CW	31-5-2012	Thu	0602	(VL)
13569	M12	851 000	CW	26-5-2012	Sat	2130	(FN)
13873	M12	834 0	CW	7-6-2012	Thu	1310	(HFD)
13873	M12	834 000	CW	1-6-2012	Fri	1310	(FN)
13873	M12	834 000	CW	9-6-2012	Sat	1310	(FN)
13873	M12	834 000	CW	16-6-2012	Sat	1310	(FN)
13914.0	M42	Russian Gov/Intel	Baudot 200/500 Hz	6-6-2012	Wed	1015	(FMB)
13926	M12	919 000	CW	26-5-2012	Sat	1310	(FN)
13972	M12	555 1 695 83 46459	CW	6-6-2012	Wed	1520	(FN)
13972	M12	555 1 723 99 13988	CW	13-6-2012	Wed	1520	(FN)
13985	M42	Russian Gov/Intel?. No traffic observed. No opchat, ch previously used by RHY7 and RRQ6	Baudot 50/500	31-5-2012	Thu	0737	(TJ)
13989.75	M42	Russian Gov/Mil. works with 13994.75	Baudot 50/500	31-5-2012	Thu	0808	(TJ)
13994.75	M42	Russian Gov/Mil. in traffic, ends traffic at 0900, off air without neither NON nor opchat, works with 13989.75	Baudot 50/500	31-5-2012	Thu	0808	(TJ)
14108	M32	Russian Mil: 2ZJS radio checks with ZD3T, CMLE, LGTB, W9BD, EQNK, C4D4, ASPK, NQT5	CW	9-5-2012		0903	(IARUMS)
14318.5	DPRK	North Korean embassy Moscow	DPRK-ARQ 1200/1200	5-6-2012	Tue	0700	(IARUMS)
14348.6	DPRK	MFA North Korea	DPRK-ARQ 1200/1200	31-5-2012	Thu	----	(IARUMS)
14372	M12	344 1 454 297 77175	CW	28-5-2012	Mon	1300	(FN)
14411	M32	RDL: Russian Military. "XXX XXX XXX" and BEE. Almost continuously active this afternoon.	FSK/CW & BEE	22-6-2012	Fri	1409	(MPJ)
14411	M32	RDL: Russian Military. Strategic broadcast "RDL RDL 91255 97897 91255 97897 91255 97897 K"	FSK/CW	22-6-2012	Fri	1349	(MPJ)
14411	M32	RDL: Russian Military. Strategic broadcast "RDL RDL 94895 42852 84895 42852 84895 42852 K"	FSK/CW	22-6-2012	Fri	1356	(MPJ)
14411	M32	Russian strategic operational command "vvv xxx xxx rgt77 rgt77 07149 10497 viwu ³ ij 8145 4729 k"	CW	18-6-2012	Mon	0738	(TJ)
14411	M32	Russian strategic operational command "vvv xxx xxx wegi wegi 24613 22133 izowerin 1028 3454 k" // 18.1 kHz	CW	17-6-2012	Sun	1232	(TJ)
14524	M12	555 1 695 83 46459	CW	4-6-2012	Mon	1300	(FN)
14524	M12	555 1 723 99 13988	CW	11-6-2012	Mon	1300	(FN)

Freq.	enigma	remarks	mode	date	day	UTC	contributor
14536.0	M42	Russian Gov/Intel	Baudot 200/500 Hz	23-6-2012	Sat	2016	(FMB)
14564	M42	Russian Gov/Intel. prob Asian Russia or neighbouring contries. In traffic, not in // to strat bcsts	Baudot 50/500	31-5-2012	Thu	0919	(TJ)
14624	E07	865 0	AM	4-6-2012	Mon	1920	(HFD)
14669	M12	263 000	CW	13-6-2012	Wed	2130	(FN)
14669	M12	263 1 115 75 19135	CW	6-6-2012	Wed	2130	(FN)
14673.5	M42	Russian Diplo	CROWD-36	6-6-2012	Wed	0623	(BCI)
14710	E06	348-746/105	AM	8-6-2012	Fri	0500	(HFD)
14869	M12	851 000	CW	26-5-2012	Sat	2110	(FN)
14964	M12	555 1	CW	6-6-2012	Wed	1500	(HFD)
14964	M12	555 1 695 83 46459	CW	6-6-2012	Wed	1500	(FN)
14964	M12	555 1 723 99 13988	CW	13-6-2012	Wed	1500	(FN)
15230	S06s	438-201/5=33691	USB	5-6-2012	Tue	0610	(HFD)
15824	E07	865 0	AM	4-6-2012	Mon	1900	(HFD)
15870	M42	Russian Gov/Intel. qth prob Kaliningrad /western Russia. No traffic observed	Baudot 50/500	31-5-2012	Thu	0739	(TJ)
15932.0	M42	Russian Gov/Intel	Baudot 200/500 Hz	30-6-2012	Sat	1210	(FMB)
15940	M42	Russian Gov/Intel. no traffic	Baudot 50/500	31-5-2012	Thu	0745	(TJ)
15943.0	M42	Russian Intel.	FSK 200/1000Hz	9-6-2012	Sat	1100	(FMB)
16048	M32	Russian Mil. VVVVVVV MDAM MDAM MDAM MDAM DE 8UGS 8UGS QSA QSV	CW	23-5-2012	Wed	0649	(BCI)
16059.5	M42	Russian Gov/Intel.	RUS-ARQ 100/2000	29-5-2012	Tue	0730	(BCI)
16074	M42	Russian Gov/Intel. in traffic. Straight off air at 0752 while in traffic modem	Baudot 50/500	31-5-2012	Thu	0746	(TJ)
16223	M32	"XXX XXX WEGI WEGI 49032 IZODRIN 1487 8084 XXX XXX"	CW	27-6-2012	Wed	1511	(MCO)
16231.5	M42	Russian Diplo	CROWD-36	4-6-2012	Mon	0520	(BCI)
16240	E06	328(!)-746/105= 30358	AM	21-6-2012	Thu	0600	(HFD)
16258.5	M42	Russian diplo	CROWD-36	23-5-2012	Wed	0652	(BCI)
16269	M12	263 000	CW	13-6-2012	Wed	2110	(FN)
16269	M12	263 1 115 75 19135	CW	6-6-2012	Wed	2110	(FN)
16331.7	MX	Beacon "D"	CW	27-5-2012	Sun	1154	(AB)
16331.7	MX	Beacon "D"	CW	14-6-2012	Thu	1935	(w.obi)
16331.7	MX	Beacon "D"	CW	22-6-2012	Fri	1549	(AB)
16331.7	MX	Beacon "D"	CW	23-6-2012	Sat	0830	(AB)
16331.9	MX	Beacon "S"	CW	27-5-2012	Sun	1154	(AB)
16331.9	MX	Beacon "S"	CW	14-6-2012	Thu	1935	(w.obi)
16331.9	MX	Beacon "S"	CW	22-6-2012	Fri	1549	(AB)
16331.9	MX	Beacon "S"	CW	23-6-2012	Sat	0830	(AB)
16332	MX	Beacon "C"	CW	27-5-2012	Sun	1154	(AB)
16332	MX	Beacon "C"	CW	14-6-2012	Thu	1935	(w.obi)
16332	MX	Beacon "C"	CW	22-6-2012	Fri	1549	(AB)
16332	MX	Beacon "C"	CW	23-6-2012	Sat	0830	(AB)
16332.1	MX	Beacon "A"	CW	27-5-2012	Sun	1154	(AB)
16332.2	MX	Beacon "F"	CW	27-5-2012	Sun	1213	(AB-HK)
16332.2	MX	Beacon "F"	CW	14-6-2012	Thu	1935	(w.obi)
16332.2	MX	Beacon "F"	CW	23-6-2012	Sat	0807	(AB-HK)
16332.2	MX	Beacon "F"	CW	17-7-2012		1857	(AB-HK)
16335	E11	228/00	USB	10-6-2012	Sun	1540	(HFD)
16335	E11	718/00	USB	28-6-2012	Thu	1155	(HFD)
16530	S11a	475/00	USB	28-5-2012	Mon	1015	(AB)
16780	E17z	674 952 8 82534 02132 90238 84253 75479 07473 29637 26987 952 8 00000	AM	7-6-2012	Thu	0800	(Spec)
16780	E17z	674 952 8 82534 02132 90238 84253 75479 07473 29637 26987 952 8 00000	AM	14-6-2012	Thu	0800	(Spec)
16901	X06b	Mazielka. Sequence: 12-3-6	USB	21-6-2012	Thu	0638	(Spec)
17478	SK01	in progress	HamDRM	30-6-2012	Sat	2113	(BCA)
17491	M42	Russian Gov/Intel. "3278065 32721349419574189"	Baudot 200/500	8-6-2012	Fri	2345	(BCI)
17500.5	M42	Russian Diplo. "11177100421180700"	CROWD-36	30-5-2012	Wed	0743	(BCI)
18035	SK01	Msg sent by callsign "ZEN11"	Easypal	30-6-2012	Sat	2130	(4D)
18035	SK01	New mode	EasyPal/DRM	29-6-2012	Fri	2153	(BCA)
18438	V02a	in progress. No "atencion" heard	AM	29-6-2012	Fri	2201	(BCA)
19314	M42	Russian Intel. 5min call-up with null message	FSK 200bd/1000 ACF=288	3-6-2012	Sun	1532	(MCO)
19566	M42	Russian Intel.	FSK 200/1000	28-5-2012	Mon	1529	(BCI)
20046	MX	C Beacon Russian Navy Moscow	CW	1-6-2012	Fri	0911	(LesG)

Freq.	enigma	remarks	mode	date	day	UTC	contributor
20046	MX	D Beacon	CW	1-6-2012	Fri	0911	(LesG)
20046	MX	S Beacon	CW	1-6-2012	Fri	0911	(LesG)
20047.7	MX	Beacon "D"	CW	23-6-2012	Sat	1049	(AB)
20048	MX	Beacon "C"	CW	23-6-2012	Sat	0830	(AB)
21000	DPRK	North Korean embassy Moscow	DPRK-ARQ 600/600	28-5-2012	Mon	1306	(MCO)
21000	SDN	MFA Sudan, whistling	USB	29-5-2012	Tue	1401	(IARUMS)
21001.5	DPRK	North Korean embassy Moscow	DPRK-ARQ 600/600	2-5-2012		1328	(IARUMS)
21016.7	EGY	MFA Cairo	SITOR-A 100/170	18-5-2012	Fri	0807	(IARUMS)
21127.7	EGY	MFA Cairo û diplo traffic	PSK4 75 1670 Codan9001	4-6-2012	Mon	0835	(IARUMS)
21438	M32a	RIP90 de RCV - Russian Navy Sevastopol	CW	31-5-2012	Thu	----	(IARUMS)
23589.7	EGY	Egyptian diplo	SITOR-A 100/170	29-5-2012	Tue	0920	(BCI)
25018.7	EGY	Egyptian diplo	SITOR-A 100/170	28-5-2012	Mon	1459	(BCI)

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