

670	27364	92836	09428	61208	74982	36498	32764	81276	01
0986	40932	70987	32123	49817	26346	81287	65491	87364	81
721	75654	55656	12737	72727	72727	91918	63473	67867	70
0723	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	50
058	63298	75698	27465	87326	49876	28376	81273	98615	62
067	87432	74328	78674	29867	32867	67867	86786	43206	432
067	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
076	87698	69876	87698	69876	87612	12341	34867	86798	632
067	43298	65656	56756	56123	32143	14321	32143	14321	321
071	02787	58765	76587	58765	76587	58765	76587	58756	765
070	75477	26547	54265	36543	54365	36543	54365	36543	543

Numbers & Oddities

a.k.a. The Spooks Newsletter

Edition #179, August 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>

VOICE STATIONS



E06

Avare reports E06 on 5948 kHz, 02-08, 2030 UTC:

724 724 724

716 716 15 15

64930 16374 98201 36472 73949 10374 29104 12849 10362 **37281 37281 37283** 39201 35267 **37284**

716 716 15 15

00000

I wonder if the red figures have a specific meaning, or is it just a coincidence?



E07

13388 kHz, 08-08, 1700 UTC: 305 1 404 45
12088 kHz, 08-08, 1720 UTC: 74985 67387 04333 27590 43024 79932 87441 40270 25102 97601
10504 kHz, 08-08, 1740 UTC: 18085 55378 05910 27275 90098 03333 00465 68216 62015 36144
76489 52856 80038 43824 40650 93508 96101 50745 59372 60552
93310 18764 84964 69735 05223 70157 16529 50914 02879 62563
22356 20161 83406 38987 77553
000 000

14378 kHz, 15-08, 1900 UTC: 349 1 411 54
13458 kHz, 15-08, 1920 UTC: 83724 88725 62158 35088 67193 29337 83846 21295 83628 87728
10958 kHz, 15-08, 1940 UTC: 43602 58391 29089 17162 79986 82989 83288 80955 73101 38976
14422 kHz, 15-08, 2000 UTC: 32870 18075 48783 33379 58465 33918 73724 00059 68371 14552
66046 97170 16546 66455 83696 42350 07077 61876 41178 29831
55365 59554 65903 62197 70230 59927 06876 85163 26346 84974
07545 01148 51624 99937
000 000

10753 kHz, 16-08, 2010 UTC: 716 1 425 43
00758 62950 24763 67181 45148 47061 33034 65797 18438 51343
87055 60580 25036 50412 81147 86320 11422 28601 12666 63862
98565 62613 62213 82489 68679 95339 98764 40530 49519 00747
50483 87156 13892 74647 52003 71507 97023 06338 49810 95986
79181 17402 61350
000 000

13388 kHz, 15-08, 1700 UTC: 305 305 305 000
8173 kHz, 15-08, 2000 UTC: 305 305 305 000
13388 kHz, 26-08, 1700 UTC: 305 305 305 000
12088 kHz, 26-08, 1710 UTC: 305 305 305 000
14378 kHz, 30-08, 1900 UTC: 349 349 349 000
13458 kHz, 30-08, 1920 UTC: 349 349 349 000



E11/ E11a / E11c

10487 kHz, 30-07, 1713 UTC: 953/20 attention 38196 Out
 9610 kHz, 01-08, 1045 UTC: 469/00
 9150 kHz, 10-08, 2000 UTC: 576/00
 8102 kHz, 14-08, 2000 UTC: 757/2100/00
 19813 kHz, 15-08, 0700 UTC: 747/0000/00
 10488 kHz, 16-08, 1926 UTC: 758/0000/00 Out
 8102 kHz, 21-08, 2000 UTC: 757/1100/00
 16335 kHz, 22-08, 1155 UTC: 716/37
 12294 kHz, 23-08, 0830 UTC: 649/00
 16335 kHz, 23-08, 1155 UTC: 716/37
 14753 kHz, 24-08, 0710 UTC: 633/00
 16388 kHz, 24-08, 1110 UTC: 958/35 ??? barely audible
 10800 kHz, 27-08, 0450 UTC: 416/00
 6280 kHz, 27-08, 0820 UTC: 438/00
 12924 kHz, 27-08, 0833 UTC: 649/00
 13427 kHz, 27-08, 0900 UTC: 534/00
 8102 kHz, 28-08, 2000 UTC: 757/2100/00
 9610 kHz, 29-08, 1045 UTC: 463/36 A 98857 36669 73882
 12494 kHz, 30-08, 0830 UTC: 649/00



E17z

16780 kHz, 23-08, 0800 UTC:

674 235 8

46531 23264 78564 80816 23154 66437 87851 78931

235 8 00000



E25

9450 kHz, 16-08, 1315 UTC: YL (slow) 780 9351 1070 9240 9145 9393 1034 3732

9450 kHz, 16-08, 1243 UTC: YL. 440 5180 5080 5240 9727 4818 3961 4808 5240

9450 kHz, 26-08, 1318 UTC: 780 3292 2051 9120 1814 6385 6617 9330 8673 6716 0536 7455 3795 7410 3976 9120
tone, EOM

9450 kHz, 27-08, 1315 UTC: tone 780..MSG..RBT..EOM EOT



EV01

- 10700 kHz, 12-08, 1515 UTC: in progress
 - 17700 kHz, 15-08, 0518 UTC: in progress (recording by Collesbb21)
 - 17700 kHz, 25-08, 0720 UTC: YL/EE in progress
-



G06

6948 kHz, 27-08, 0759 UTC: 215 215 215 00000



G11

- 3815 kHz, 03-08, 2000 UTC: 262/00
- 5815 kHz, 07-08, 1755 UTC: 270/00
- 5815 kHz, 12-08, 1757 UTC: 270/00

3815 kHz, 12-08, 2000 UTC: 266/35 Achtung
 51184 24010 40578 15793 90373 95461 29139 77972 69429 30198
 35379 51396 21924 68264 08316 75600 22995 37303 93366 14037
 08269 07693 02261 37048 15577 92008 53261 81869 08793 03432
 14083 46765 16681 39843 99399
 Achtung, repeat msg, Ende

5815 kHz, 14-08, 1755 UTC: 278/32 Achtung
 01673 95146 58689 02247 74929 98499 11871 86951 37479 18154
 37221 56186 36378 15335 17812 79868 33111 95431 78202 00682
 78353 24009 91870 99008 16418 66500 16238 01055 87220 46290
 38383 77684
 Achtung, repeat msg, Ende

- 3815 kHz, 17-08, 2000 UTC: 262/00
 - 3815 kHz, 23-08, 2100 UTC: 565/00
 - 5815 kHz, 26-08, 1755 UTC: 270/00
 - 3815 kHz, 26-08, 2000 UTC: 262/00
 - 5815 kHz, 28-08, 1755 UTC: 270/00
 - 3815 kHz, 31-08, 2000 UTC: 262/00
-



S06

7847 kHz, 04-08, 1900 UTC: S06 416 416 416 00000
11438 kHz, 04-08, 1900 UTC: S06 314 314 314 00000
6916 kHz, 04-08, 2000 UTC: S06 416 416 416 00000
4643 kHz, 07-08, 1330 UTC: S06c 11513 11513 11513 (R3)
6983 kHz, 11-08, 1605 UTC: S06 134 134 134 00000
7884 kHz, 11-08, 1930 UTC: S06 134 134 134 00000
6984 kHz, 06-08, 1905 UTC: S06 349 349 349 00000
6783 kHz, 25-08, 1935 UTC: S06 843 843 843 00000
15805 kHz, 27-08, 1815 UTC: S06 260 260 260 00000
14580 kHz, 29-08, 1000 UTC: S06 729 729 729 00000
16020 kHz, 29-08, 1010 UTC: S06 729 729 729 00000
12165 kHz, 07-08, 1210 UTC: S06s 831 452 6
40613 66610 20336 17302 32045 24041
452 66 00000

15271 kHz, 13-08, 0400 UTC: S06 480 253 60
59961 48697 84314 46751 28826 54511 13735 59940 46993 15344
12296 46896 63382 59543 15562 29565 83311 66613 60582 65814
34270 39790 67517 51350 44276 41607 36220 96347 93779 97138
81188 93780 27031 94599 53339 23019 33859 38002 22030 51711
37806 31551 15776 35115 51536 00461 45098 23074 85476 77888
55933 21029 20608 65489 01356 64079 65406 65468 97845 99884
253 60 00000 13735 was repeated as 3735

15721 kHz, 15-08, 0406 UTC: S06 In progress

47532 12714 11292 96469 53454 67121 79495 44230 30553 42038
81933 34426 90208 01952 81009 83893 90697 83738 54527 13749
47984 94342 47965 78707 51288 32368 91479 94685 69373 63300
96621 06543
357 52 000000

15721 kHz, 21-08, 0400 UTC: S06 480 963 58
35549 36048 00258 57915 94517 70386 95489 82165 08067 58898
38254 78947 16442 71432 95934 50878 36215 83314 82431 28860
03912 62201 36207 86162 14650 30043 73821 99339 47986 61072
23639 01770 69405 93067 50937 23738 58367 76359 74156 45424
53637 81334 14332 83628 35481 65644 16326 20735 81215 17908
08376 95297 78418 42481 19648 75034
963 58 00000

15721 kHz, 22-08, 0400 UTC: S06 480 517 60
53065 84174 34449 75899 40703 13226 47192 42972 22418 01503
26849 31340 08330 19707 02389 38172 20892 38077 89923 43624
33793 64690 02961 55818 65659 57687 32271 03986 14467 41109
43839 21924 43625 79037 68305 88990 55644 87723 80359 20786
14356 90390 91501 26748 01587 44401 04631 76818 19261 95473
03882 44376 72833 38639 78153 17640 97021 90620 01766 96703
517 60 00000

15721 kHz, 23-08, 0400 UTC: S06 480 279?, mistake, send 60 groups.

12155 kHz, 23-08, 1200 UTC: S06s 425 973 6
14535 kHz, 23-08, 1210 UTC: 91826 56473 90806 24358 55618 69110
973 6 00000

15721 kHz, 24-08, 0400 UTC: S06 Up with 480 0000
 10 seconds silence and then
 480 480 480 480 673 51
 47257 12777 00257 91764 18405 14917 28015 41131 44583 74853
 34532 15997 70832 68343 26403 63368 77382 97501 93957 08709
 35563 14058 46319 24946 21609 32174 94204 40254 24324 10489
 78927 76797 07521 08093 71020 37607 13199 44121 86931 83803
 16359 15639 97218 69326 67440 53522 24690 25379 83275
 21008 55920
 673 51 00000

10290 kHz, 24-08, 0930 UTC: S06s 516 893 7
 9655 kHz, 24-08, 0940 UTC: 08527 79200 05507 82616 32447 54139 71689
 893 7 00000

15721 kHz, 28-08, 0400 UTC: S06 S06 having some problems.
 Logged and recorded by Avare. Recording on the N&O website.

480 480 480 480 480 480. Off at 0404 UTC, returned at 0405 UTC with "4" and off
 again. Returned with "48800" and off, then "480" from 0406 to 0409 UTC.
 751 60
 51657 09058 36966 96386 94674 25939 75943 92158 18095 66517
 99655 31911 08268 01688 33256 69805 52971 30168 44529 90741
 81558 98025 35270 35984 36858 76892 26111 96078 83488 24309
 52003 56989 82291 74640 10526 10391 85567 33989 30212 64066
 32795 77552 51089 13337 51526 72859 34604 59461 93351 77323
 45140 85949 58209 83545 70297 28725 90931 10819 72129 01066
 751 60 00000

12165 kHz, 27-08, 1210 UTC: S06s 831 495 6
 87463 56473 89201 98073 23546 77109
 495 6 00000

6666 kHz, 28-08, 1500 UTC: S06s 537 841 6
 7744 kHz, 28-08, 1510 UTC: 78635 45312 80967 45326 56563 12111
 841 6 00000

12155 kHz, 30-08, 1200 UTC: S06s 425 973 6
 14535 kHz, 30-08, 1210 UTC: 91826 56473 90806 24358 55618 69110
 973 6 00000

12952 kHz, 30-08, 0900 UTC: S06s 167 167 167 00000
 13565 kHz, 30-08, 0910 UTC: 167 167 167 00000



S11a

<p>5815 kHz, 11-08, 1020 UTC: 221/00 16530 kHz, 23-08, 1015 UTC: 475/00 11581 kHz, 24-08, 1020 UTC: 426/00 5815 kHz, 25-08, 1020 UTC: 221/00</p>	<p>8530 kHz, 24-08, 0915 UTC: 486/32 Vnimanie 98618 95092 05120 21766 53215 10170 58606 69786 38597 78925 85703 56277 16679 70938 58552 37286 62661 17255 66831 16262 71776 28781 18382 81808 16190 66005 95715 21763 87655 38339 38666 68219 Vnimanie, rpt msg, konet</p>
---	---



S21

5373 kHz, 16-08, 1742 UTC:

973 702 31

10456 17901 20094 75544 36958 21826 36033 86878 21849 67795

25193 91710 22605 11655 03968 38182 71742 84147 69375 20679

99248 86087 08802 79025 96930 55693 47431 53925 09169 15635

54374

702 31 000

After the message a not related voice came up, calling CQ and a minute late in CW "CQ CQ DE LA9BM LA9BM CQ CQ DE LA9BM K"

Listen to the recording on www.numbersoddities.nl Note that the CW part is missing in the recording.



S28 - The Buzzer

Mode: USB

Frequency: 4625 kHz

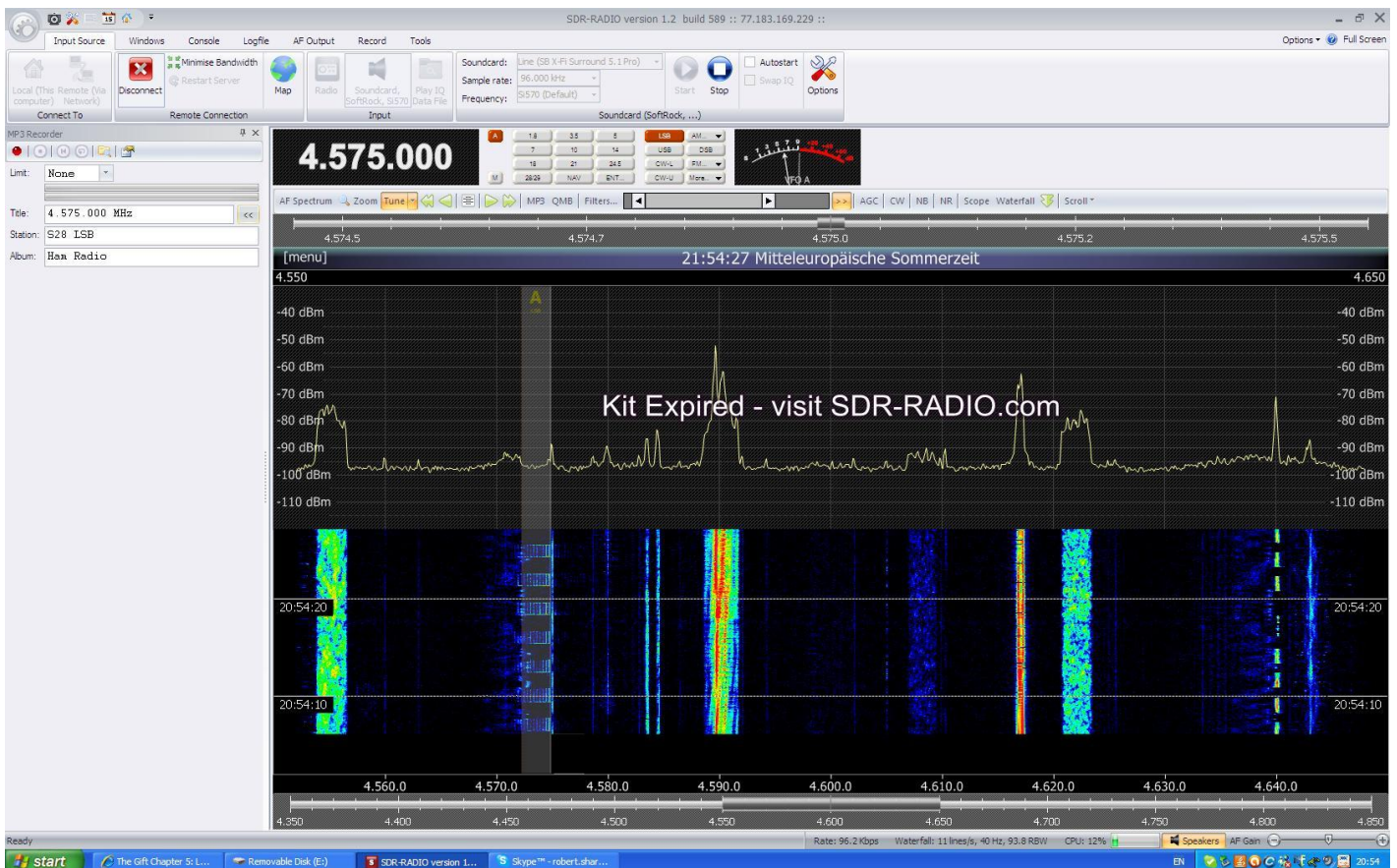
15, 16, 27 and 29 August were quite busy with a total of 27 messages, including two new callsigns. Since September 2010 the station sent messages to the following callsigns: UVB76, MDZhB, KZYT, LNR4, MBYShch, V6BY, IA6N, OYEUN, 8ZHSM, 1SG5, 6E4N, 94ZHT, TSLIM, TS38M, 'BOM, 'B2M, 2BYP, KHN87, 4T5K, 5PAKh.

On 31 August at 0705 UTC a new buzzer appeared with a higher and clearer sound. The old one stopped at 0657 UTC and after a silence of 8 minutes the new one started. Listen to a recording on the N&O website.

01-08, 1506 UTC: MDZhB 88 633 GADZhan'E 13 93 91 87
 13-08, 0707 UTC: MDZhB 62 403 NAGORELYJ 03 50 08 50
 13-08, 0713 UTC: MDZhB 83 995 MAGNITIZM 13 53 30 32 (not repeated)
 15-08, 0915 UTC: MDZhB 99 432 MAGAYuR 37 61 34 25
 15-08, 0921 UTC: MDZhB 80 708 GAVYuLA 74 06 87 18 Repeated as MDZhB 80 708 GAVYuLA 74 08 88 87 18
 15-08, 0933 UTC: MDZhB 99 432 LAVOChNYJ 40 72 99 77 ZAVODSKOJ 13 98 93 04
 15-08, 0942 UTC: MDZhB 34 925 LAVOChNYJ 40 72 99 77 ZAVODSKOJ 13 98 93 04 (incorrect key group)
 16-08, 0718 UTC: MDZhB 08 116 NAVIS' 44 22 26 12 Priyom
 16-08, 0718 UTC: MDZhB 93 073 RAVANA 24 91 94 81
 16-08, 1007 UTC: MDZhB 99 719 KABALKA 34 92 94 27 Priyom
 16-08, 1156 UTC: MDZhB 03 554 BABEJ 95 96 54 63 Priyom
 16-08, 1202 UTC: MDZhB 92 534 TEKSTOLIT 47 95 53 31 BEKMANIYa 39 35 47 65 BEKACHINYJ 34 71 20 30 Priyom
 16-08, 1235 UTC: MDZhB 15 973 TcEZARIZLE 34 56 07 09 MEZhPOLOS'E 03 97 33 21 MEDSESTRA 75 85 40 03 Priyom
 16-08, 1257 UTC: MDZhB 32 917 MEDOVKA 62 60 25 45 Priyom
 16-08, 1634 UTC: MDZhB 47 109 MEDITcEL 74 30 25 32 Priyom
 25-08, 0358 UTC: 4T5K P sboj sboj sboj (error error error) 4T5K 5PAKh 4T5K 5PAKh VITsULLIN 64 94
 Two new callsigns. Recording on the N&O website.
 26-08, 1346 UTC: MDZhB 75 250 GEGEChKORETc 03 41 06 41 MEGALOZAVR 53 05 22 45
 27-08, ???? UTC: MDZhB VITcA 29 42
 27-08, 1030 UTC: MDZhB 98 911 REVMANOL 50 88 56 52 NEVKUSNYJ 59 69 08 39
 27-08, 1043 UTC: MDZhB 93 518 LEVICHAR 94 26 77 59 NEVZRACHNYJ 25 47 81 29

- 27-08, 1100 UTC: MDZhB 90 728 TYeVYeRON 85 33 69 95
- 27-08, 1203 UTC: MDZhB 79 815 FEBRDIOL 16 80 30 38...
Other voice: "не себя только, да?" / "ne sebya tol'ko, da?" / "not only yourself, right?"
Repeat message. (Recording by Avare on the N&O website)
- 27-08, 1228 UTC: MDZhB 53 722 ZEAZIN 41 05 61 19
- 27-08, 1320 UTC: MDZhB 09 676 ADOPTATciYA 83 51 95 39
- 29-08, 1216 UTC: MDZhB 61 171 UDOBNYJ 67 64 07 16 ODKORA 55 16 31 82
- 29-08, 1243 UTC: MDZhB 82 705 JEDINENIJE 60 31 43 39 ADIANTUM 38 54 76 24
- 29-08, 1255 UTC: MDZhB 16 433 ITEOSOMA 46 47 50 24
- 29-08, 1408 UTC: MDZhB 72 420 UDAR 21 74 98 70
- 29-08, 1420 UTC: MDZhB 84 405 SDANNYJ 23 55 20 03
- 29-08, 1528 UTC: MDZhB 01 677 AGRIKOLIT 92 44 70 25
- 29-08, 1642 UTC: MDZhB 79 753 EGRITIF 30 16 54 22
- 29-08, 1644 UTC: MDZhB 59 981 VGON 59 59 48 56
- 30-08, 0802 UTC: 4T5K 5PAKh 4T5K 5PAKh VIKhORD 05
- 30-08, 1136 UTC: MDZhB 64 915 UGOVORNYJ 09 15 70 15
- 30-08, 1143 UTC: MDZhB 27 624 UGLOVOJ 61 41 79 74
- 31-08, 0657 UTC: End of the old buzzer
- 31-08, 0705 UTC: Start of the new buzzer

- 4572 kHz, 14-08, 2112 UTC: Buzzer, unusual frequency
- 4665.5 kHz, 15-08, 2025 UTC: Parasitic Buzzer sounding like a very sick cow
- 4635 kHz, 19-08, 2009 UTC: Parasitic Buzzer
- 4575 kHz, 23-08, 1854 UTC: Buzzer in AM with USB component mainly suppressed. A strange one, logged by Dauntless.
See the picture below. It shows the buzzer on 4575 kHz and no buzzer on 4625 kHz while I recorded the same period and did not notice a silence on 4625 kHz.





S30 - The Pip

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

02-08, 1725 UTC: 8S1Shch 88 264 Gradinka 84 08 12 50 Priyom

20-08, 1823 UTC: 8S1Shch 17 899 Montrel 03 96 95 17 Priyom

21-08, 0840 UTC: 8S1Shch 48 661 RASShchETNYH 13 89 41 56 Priyom

23-08, 1645 UTC: 8S1Shch 52 605 VChERAShcnIJ 00 15 70 64 Priyom

Note: Code word MONTREL was also transmitted on 10-10-2011, 1659 UTC: 8S1Shch 19 246 MONTREL 30 57 30 28



S32 - Squeaky Wheel

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

20-08, 1827 UTC: Al'fa45 46 293 PANICHESKIJ 94 62 16 20 Priyom

21-08, 0845 UTC: Al'fa45 40 086 EHIDSTVO 58 24 80 69 Priyom

23-08, 1649 UTC: Al'fa45 58 960 KRIGLA 52 75 99 81 Priyom



V02a

Dirección General de Inteligencia

5898 kHz, 18-08, 0800 UTC: "Atencion 28241 40871 53302 LG 50383"

The station sent "111111" 2.2 minutes before the message.

(logged by Daniel)



V13 - New Star Broadcasting Station

星星廣播電台 Xīngxīng guǎngbò diàntái

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

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

I have uploaded a new recording of a full transmission, this time in USB which is better than the AM recording of last month. Thanks to Tomonori for making the recording.



V16

11147 kHz, 31-08, 1359 UTC: Digital signal probably associated with Chinese numbers station V16

15123 kHz, 31-08, 1509 UTC: Digital signal probably associated with Chinese numbers station V16



VC01 - Chinese Robot ***Chinese Air Defense***

Modes: USB and LSB

The station changes its frequencies frequently. Known frequencies:

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

6858 kHz, 01-08, 1010 UTC

4343 kHz, 01-08, 1431 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

“L” now also on 6917.5 kHz

Channel marker “V”: 7027.5 kHz



M01/ M01b

5465 kHz, 17-08, 1903 UTC: 467 326 30 = 72964 42084...

12218 kHz, 22-08, 1520 UTC: 991 991 991 000 (R2)



M03

6523 kHz, 07-08, 1635 UTC: 798/00
 7837 kHz, 23-08, 1320 UTC: 437/00
 7837 kHz, 26-08, 1320 UTC: 437/00
 6524 kHz, 28-08, 1535 UTC: 798/00
 7837 kHz, 30-08, 1115 UTC: 650/00 = = 000



M12

Like last month we received a lot of M12 logs from Fritz. See our Logs Section.



M14

6586 kHz, 28-08, 1820 UTC: 163 803 15 = 83920....



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

Id "0": 3266.5, 5220, 5221.5 kHz
 Id "8": 5752 kHz
 Id "9": 7166 kHz

Recently I received a couple of pages from a note book that was used by a PVO soldier in 1982. Here is most of the text, translated by an old friend. Thanks man! His comments are between brackets.

140 r/st 160 correspondents
 (r/st = radio station)
 4452 r/st 4512 r/st 4 correspondents
 Iwa, PoluChar, Stalx, Dub
 4040 r/st 8 correspondents
 Pero - head r/st
 Saman - city Vladivostok
 Pedagog - border
 Fasha (?Faska) - Dal'neretsjensk
 Zasetsjka - bend Ol'ga
 Tankist -
 Berma - stad Ussurijsk
 Lakirowka -

On other pages we found the explanation of a number of reporting codes:

From the index:

- 1 Aircraft without signals for recognition
- 5 Violator of the flight regime
- 8 Practice target
- 7 Border violator
- 0 Control target
- 9 Adversary in the air
- 4 Director for malfunctions
- 183 Nuclear explosion on the ground
- 189 Nuclear explosion in the air

Aircraft types:

- 532 - type not specified
- 760 - SR-71
- 766 - RS-135
- 829 - Orion
- 630 - U-2
- 826 - Fighter (flight deck)
- 763 - Fighter
- 463 - Bomber Tu-16
- 539 - Tu-154
- 922 - An-12; An-24
- 822 - Helicopter
- 212 - Il-62

nrs SR-71 : 58, 59, 60

00 8710 62 7 08 44 5160 06
 843 8710 1 922 06
 846 8710 600 06
 296 8710 08016 06
 598 8710 44
 144 8502 0580 32
 146 4420 50 12

Signals:

- 296 - Aircraft on request
- 843 - Aircraft type
- 846 - Speed
- 848 - Altitude
- 596 - Removed from report
- 598 - Loss
- 144 - (unreadable in the document)
- 146 - Target practice
- 650 - Circling around
- 651 - Bording crossing
- 713 - Fault finding
- 717 - End fault finding
- 50 - Downed
- 00 - Attention
- 382 - Erroneous message

First line:

00 Attention
 8710 Number of the target
 62 Zone
 7 Sector
 08 Large quadrant
 44 Small quadrant
 5 Index
 1 Quantity
 60 Height
 06 Time

Second line:

843 Signal type
 8710 Number of the target
 1 Quantity
 922 Aircraft type
 06 Time

Third line:

846 Signal speed
 8710 Number of the target
 600 Speed
 06 Time

Fourth line:

296 Signal request
 8710 Number of the target
 08016 Request
 06 Time

Fifth line:

598 Loss
 8710 Number of the target
 44 Time

Sixth line:

144 (unclrear)
 8502 Number of the target
 0580 New number
 32 Time

Seventh line:

146 Practice
 4420 Number
 50 Destroyed
 12 Time



M22 - 4XZ

- 4594 kHz, 22-08, 2325 UTC:
- 6379 kHz, 24-08, 2147 UTC:
- 6607 kHz, 24-08, 2202 UTC:
- 4592 kHz, 28-08, 2123 UTC:
- 4331 kHz, 28-08, 2157 UTC:

4XZ coded text ends with AR VVV VVV DE 4XZ
 4XZ VVV DE 4XZ 4XZ = =
 4XZ = AN3S NR 84 SA GR 23 NU=
 4XZ 5LGs, ends VVV de 4XZ
 4XZ 5LGs ends AR VVV DE 4XZ 4XZ



M23

M23 was finally found again, but disappeared after a week. Transmissions consisted of nothing more than groups of "111"s. Tests perhaps???

The station is located in north-west France. Various triangular dfs over the years pinpointed the station in an area west of Paris, possibly the DGSE site Alluets-Feucherolles 48°53'20.87"N 1°58'37.99"E, or the navy site in Houilles 48°55'2"N 2°10'12"E

All transmissions were on 6961//9886 kHz.

6961 kHz, 04-08, 1920 UTC:	111 111 111
9886 kHz, 05-08, 1940 UTC:	111 111 111. Ends at 1943 UTC
9886 kHz, 06-08, 1922 UTC:	111 111 111. Ends at 1942 UTC
9886 kHz, 07-08, 1916 UTC:	111 111 111. Ends at 1942 UTC
6961 kHz, 08-08, 1922 UTC:	111 111 111. Ends at 1943 UTC //9886 kHz
9886 kHz, 08-08, 1922 UTC:	111 111 111. Ends at 1943 UTC //6961 kHz
6961 kHz, 09-08, 1922 UTC:	111 111 111. Ends at 1942 UTC //9886 kHz *)
9886 kHz, 09-08, 1922 UTC:	111 111 111. Ends at 1942 UTC //6961 kHz
6961 kHz, 10-08, 1922 UTC:	111 111 111. Ends at 1943 UTC //9886 kHz
9886 kHz, 10-08, 1922 UTC:	111 111 111. Ends at 1943 UTC //6961 kHz

Tentative M23:	5345 kHz, 30-08, 1755 UTC:	135 135 135, ends with a dash
	9218 kHz, 31-08, 0959 UTC:	579 579 579 (R5), ends with a long dash

No sign of the station after the 10th. There was however a carrier on 12 and 13 Aug. Possible M23 transmissions were logged on 30 and 31 August.

*) When the 111 strings stopped, a pirate popped up on 6961 kHz and sent "M23 DE UDXF M23 DE UDXF". On 12-08 at 1913 UTC, Paul reported on the Enigma 2000 mailing list that he copied another call from the pirate who calls himself unrightfully "UDXF". He sent "VVV M23 de UDXF K".

Trond compiled a list of frequencies that M23 used over the years which can be handy when you are searching for possible frequencies and frequency pairs.

3380 kHz	11020, 11170, 11220, 11346 (//10775), 11416, 11430, 11960 kHz
4630, 4767, 4800, 4810, 4825, 4893 kHz	12170, 12200, 12220, 12700 kHz
5019, 5080, 5140, 5179, 5180, 5344, 5345, 5349, 5400, 5540, 5625 (//6520), 5665 (//6560), 5670, 5785, 5914 kHz	13140, 13150.5, 13260, 13400, 13450 kHz
6290 (//5349), 6918, 8307), 6314, 6430, 6520, 6560, 6575, 6780, 6805, 6809, 6851, 6870 (//8307), 6918 (//5349, 6290, 8307), 6961 (//9886), 6980, 6999 kHz	14300, 14320, 14450, 14710, 14750, 14920 kHz
7504 (//9285), 7256, 7275, 7276, 7296, 7500, 7543, 7630, 7695, 7770, 7794, 7795, 7796, 7800, 7830, 7850, 7960 kHz	16940 kHz
8125, 8160, 8210, 8290, 8307, 8810, 8811, 8874 kHz	17330, 17460 kHz
9128, 9154, 9155, 9160, 9210, 9230, 9285 (//8307, 7504), 9340, 9600, 9750, 9886 (//6961) kHz	18460, 18486 kHz
10014, 10015, 10046, 10110, 10115, 10155, 10200 (//8125), 10220, 10250, 10260, 10350, 10390, 10474, 10475, 10520, 10650, 10775, 10780, 10870, 10910 kHz	19300, 19820 kHz



M32

Russian/CIS/Ukrainian

Military CW Stations

The ВПК “Военно-промышленный курьер” (Military Industrial Courier) reported on August 15th that the Russian military have tested a new communication system during a large scale exercise in three regions. Military of the Signal Corps created multi-level network nodes and communication nodes, linked to all kinds of open and secured communication units of the Army, the Baltic and Northern fleets, as well as the Air Command. The tests were mainly tropospheric communication connections of more than 1500 kilometers. The new system guarantees a stable and continuous operation of network management, even if the conditions are noisy. According to colonel Bobrun video conferencing is among the possibilities. He states that “users can not only hear each other, but also see electronic document and share graphics and a large amount of videos.”

4441 kHz, 07-08, 1942 UTC: LDBO: Russian Military Bcast 1942 CW LDBO QTC 220 24 7 2340 220 ZBZ 0_0 = 54027 72907 ... 70720 07__4 AR

8138 kHz, 07-08, 2011 UTC: E1K9: Russian Military. E1K9 R K

8138 kHz, 07-08, 2032 UTC: E1K9: Russian Military. X26J de E1K9 K. (x 5) then msg: E1K9 318 25 8 0030 318 FM 389 158 FOR 249 399 720 = DÜSDT MWJFA ... ELFÄS PIPWÄ RPT AL QLN K. OK AS K.

8138 kHz, 07-08, 2102 UTC: E1K9: Russian Military. Sends similar msg to LTIK

10987 kHz, 12-08, 1440 UTC: Russian Mil.
APSG APSG APSG DE EEZN EEZN K.
LMW3 LMW3 LMW3 DE EEZN EEZN K.
X4J8 X4J8 X4J8 DE EEZN EEZN K.
AAOV AAOV AAOV DE EEZN EEZN K.
KSLT KSLT KSLT DE EEZN EEZN K

13396 kHz, 15-08, 0912 UTC: xxx xxx xxx c1ob 6z2s tuzr 5j7q 44847 gläcewyj 9479 1339 k

7674 kHz, 16-08, 0650 UTC: XXX XXX RGT77 RGT77 92148 AMILBA OMIS 2196 3967 K

7817 kHz, 16-08, 0658 UTC: XXX XXX OEUN OEUN 17170 INWERTOR 011Z 6473 K T

8109 kHz, 21-08, 0629 UTC: Russian Mil. 5LG message after RGT77 RGT77 = 776 = SUUD

8116 kHz, 21-08, 0701 UTC: CIS Mil. LKDW DE PRAT QSA NO QSY 73816



M32a

Russian Navy

Voyenno-Morskoy Flot Rossii

5838 kHz

08-08, 2105 UTC: RIT: Severomorsk Naval Radio "RLO de RIT QTC 610 34 9 0057 610 = RADIOPROGNOZ 09082 03003 30101 .. 00612 50011 +"

8345 kHz

04-08, 1210 UTC: RBES: Russian Navy Ship (Sliva, SB-921?) qtc to rmp rbes 847 15 4 1600 847 = sml for rjd38 rjh45 = 04121 99546 10111 43598 71103 10220 40130 57030 70311 876// 22233 04011 = + rbes k

04-08, 1815 UTC: RKO81: Russian Navy Ship Lena qtc to rmp rko81 998 20 4 2200 998 = for rjd38 rjh45 rjh74 = 04181 99548 10129 41598 31406 10210 40113 57002 70112 83331 22213 00160 29901 30000 88000 80000 04016 = + rko81 k

19-08, 2035 UTC: RAL68: Russian Navy qtc to RIT ral68 112 10 20 0015 112 = for rjh74 = 19201 99723 10749 41396 72308 20005 47471 54015 22200 20009 = + ral68 k

19-08, 2102 UTC: RBES: Russian Navy (Sliva, SB-921) qtc to RMP rbes 439 15 10 0100 439 = sml for rjd38 rjh45 = 19211 99551 10057 43998 10706 1020040150 57030 70100 81001 22252 20011 = + rbes k

19-08, 2115 UTC: RJP30: Russian Navy qtc to RIT rjp30 325 16 20 0105 305 = for rmsz rjh74 = 1921199725 20743 41497 72610 10050 49975 57005 70252 84260 22251 00082 20302 20013 = + rjp30

12464 kHz

09-08, 0914 UTC: RGR70: Russian Navy qso RIW qsu1 qwh 13086 qsx 12260 k - nr 183 49 9 1256 183 = fm raa 64643 66335 76885 17812 46418 55548(rpt of a msg from RIW)
09-08 RLD69: Russian Navy qso rcv
09-08, 0955 UTC: RMYZ: Russian Navy qtc to rcv rmyz 944 3 9 1344 944 = 98000 91305 09002 = + rmyz k - rmyz 431 28 9 1504 431 = sml = 37371 72238 50157 ...
09-08 RCJG: Russian Navy Ship Ivan Bubnov qso rcv qsu1 qsx 12230 qwh 13125 k - ok qsu1 sk
09-08 RMYZ: Russian Navy rmyz 64792 bahromnyj 2232 5797 k
22-08, 1128 UTC: RGQ: Russian Navy "rgq rgq 33333 96854 10547 10179 15616 97992 37543 11265 k"



M32b
Russian Naval Aviation
Aviatsiya Voennno-morskogo Flota Rossii

8137 kHz

21-08, 1929 UTC: RCJD: Russian navy ship "RIT DE RCJD QSA ?"

8816 kHz

01-08, 0635 UTC: 42003: Russian Naval Air Transport rcb rjf94 de 42003 qto 0625 qrd XLLV XMWB qah 6400 qbd 0500 - qth 5820 2040 qtr 0725 qah 7000 qbd 0400 - qth 5958 2606 qtr 0810 qah 7000 qal XMWB 0855 qbd 0300 - qqm XLLV 0859 sk
01-08, 0641 UTC: 42004: Rus Naval Air Transport rcb rjf94 de 42004 qay UUBT 0640 qah 5800 qbd 0400 - qqm XLKE 0905 k
01-08, 1545 UTC: 42003: Rus Naval Air Transport rcb rjf94 de 42003 qto 1543 qrd XMWB XLLV qah 5100 qbd 0500 k - qth 5933 2310 qtr 1605 qah 6700 qbd 64000 - qth 5700 1955 qtr 1750 qah 6700 qal XMWB 1830 qbd 0300 - qqm XMWB 1830 sk
01-08, 1620 UTC: 09369: Rus Naval Air Transport rjc38 rjf94 de 09369 qto 1613 qrd XLLV XLWF qre 1740 qbd 17400 - qth 5927 3203 qtr 1716 qbf 3500 - qqm XLLV 1745 - qto 1840 qrd XLMV XLLV qre 2100 qbd 13000 - qth 6337 3416 qtr 1941 qbf 8200 - qqm XLMV 2049 sk
09-08, 0659 UTC: 09369: Russian Naval Air Transport qtc to rjf94 rjc38 09369 qth 6456 3429 qtr 0657 qbg 7000 k qth 6001 3745 qtr 0800 qbg 5500 k - qqm XLWF 0816 sk - qto 0930 qrd XLMV XLWF qre 1150 qbd 14500 - qth 6337 3527 qtr 1030 qbg 6700
09-08, 0920 UTC: 65317: Russian Naval Air Transport qtc to rcb rjf94 65317 qto 0908 qrd XLLV XMWB qah 8200 qbd 0500 - qth 5933 2310 qtr 1015 qah 8200 qal XLLV 1045 qbd 0330 k - qqm XLLV 1049 sk - qto 1200 qrd XMWB XLLV qah 7900 qbd 0500 k - qth 5903 2110 qtr 1306 qah 8500 qal XMWB 1350 qbd 0330
13-08, 0658 UTC: 09369: Russian Naval Air Transport qtc to rjf94 rjc38 09369 qth 6507 3914 qtr 0656 qbg 6400 k qqm XLAA 0722 sk
13-08, 0703 UTC: 52255: Russian Naval Air Transport tfc to rjf94 rjc38 52255 qto 0700 qrd XLLV XLMV qbd 4800 qre 1000 k - qql ULPE 0805 qbg 5800 - qth 6112 3224 qtr 0905 qre XLLV 0952 k - qqm XLLV 0955 sk
13-08, 0847 UTC: 09369: Russian Naval Air Transport qtc to rjf94 rjc38 09369 qto 0825 qrd XLMV XLAA qre 0953 qbd 10000 k - qth 6729 3609 qtr 0915 qbd 3600 k
13-08, 1315 UTC: 42003: Russian Naval Air Transport qtc to rcb rjf94 42003 qto 1308 qrd XLLP XMWB qre 1605 qah 5800 qbd 4400 k - qay EVRR 1352 qah 5800 qbd 3600 k - qay EETT 1452 qal XLLP 1600 qah 5800 qbd 2800 k - qqm XLLP 1553 sk
13-08, 1110 UTC: 52255: Russian Naval Air Transport tfc to rjf94 rjc38 52255 qto 1100 qrd XLMV XLLV qbd 4800 qre 1400 k - qth 6153 3405 qtr 1205 qbg 5800 - qql ULPE 1300 qbd 3500 k - qql XLMF 1344 qre XLMV 1420 k - qqm XLMV 1415 sk
13-08: 75222: Russian Naval Air Transport qso rjc38 qsa3 k
13-08, 1710 UTC: 42003: Russian Naval Air Transport qtc to rcb rjf94 42003 qto 1701 qrd XMWB XLLP qre 1940 qah 5500 qbd 4400 k - qay EETT 1758 qah 5500 qbd 3800 k
17-08, 0637 UTC: 52255: Russian Naval Air Transport qtc to rjc38 rjf94 52255 qql XLMF 0630 qbg 5800 k - qql ULPE 0715 qbd 3200 qbg 5800 k - qay XLPB 0815 qbd 2600 qre XLWF 0855 k - qqm XLWF 0855 sk
17-08, 1008 UTC: Russian Naval Air Transport qtc to rjc38 rjf94 52255 qto 1000 qrd XLLV XLWF qre 1155 qbd 5400 - qth 5927 3203 qtr 1105 qbd 4000 qre XLLV 1145 - qqm XLLV 1135 sk
17-08, 1412 UTC: 52255: Russian Naval Air Transport qtc to rjc38 rjf94 52255 qto 1407 qrd XLMV XLLV qre 1655

17-08: qbd 5300 - qql XLPB 1512 qbd 3700 qbg 6120 - qql ULPE 1605 qbd 3100 - qqm XLMV 1724 sk
RJC38: Russian Naval Air Transport Murmansk region rjf94 de rjc38 pse rpt fm 52555 ...
RJF94: Russian Naval Air Transport Moscow rpt fm 52555 qql ULPE

17-08, 1422 UTC: 52234: Russian Naval Air Transport qtc to rjf94 rcb 52234 qto 1405 qrd XLOS XUMO qah 5500
qbd 0500 k - qay XUEA 1506 qah 5500 qal XLOS 1550 qbd 0400 k - qqm XLOS 1548 sk

20-08, 1000 UTC: Russian Naval Air Transport qtc to rjf94 rjc38 rcb 65317 qth 6003 2659 qtr 0955 qah 8200 qbd
0400 k - qth 6456 3429 qtr 1105 qah 9100 qal XLMV 1205 qbd 0300 k - qqm XLMV 1202 sk

20-08, 1130 UTC: 52246: Russian Naval Air Transport qtc to rjf94 rjc38 52246 qto 1120 qrd XLLP XWF qre 1400
qbd 5200 k - qth 5933 3256 qtr 1320 qbd 4100 qre XLLP 1350 k - qqm XLLP 1353 sk

20-08, 1320 UTC: 65317: Russian Naval Air Transport qtc to rjf94 rjc38 rcb 65317 qto 1315 qrd XUMU XLMV qah
8200 qbd 0500 k - qth 6106 3707 qtr 1430 qah 8800 qal XUMU 1525 qbd 0400 k - qqm XUMU 1527 sk

20-08, 1500 UTC: 52246: Russian Naval Air Transport qtc to rjf94 rjc38 52246 qto 1452 qrd XLMV XLLP qre 1800
qbd 5000 k - qql XLPB 1558 qbd 4000 qbg 5800 k - qql ULPE 1650 qbd 3100 qre XLMV 1805 k -
qqm XLMV 1802 sk

24-08, 0735 UTC: 65317: Russian Naval Air Transport (Tupolev-134) qtc to rcb rjf94 65317 qto 0718 qrd XUMU
XRKA qah 8200 qbd 0500 k - qay UUOO 0832 qah 8500 qal XUMU 0930 qbd 0400 k - qqm
XUMU 0934 sk - qto 1325 qrd XMWB XUMU qah 5500 qbd 0500 - qay XLLP 1430 qah 9100 qbd 0400 -
qth 5820 2040 qtr 1525 qah 8500 qal XMWB 1610 qbd 0300 k - qqm XMWB 1605 sk

24-08, 1009 UTC: 52255: Russian Naval Air Transport Antonov AN-26 RUS 1009 CW qtc to rjf94 rjc38 52255 qto
1000 qrd XLLV YLWF qbd 5200 qre 1150 k - qth 5941 3410 qtr 1055 qre XLLV 1145 k - qqm
XLLV 1145 sk - qto 1000 qrd XLLV XLWF qbd 5200 qre 1150 k - qth 5941 3410 qtr 1055 qre XLLV 1145 k -
qqm XLLV 1155 sk - qto 1440 qrd XLMV XLLV qbd 5400 qre 1800 - qth 6153 3405 qtr 1550 qbd 6100 -
qth 6622 3334 qtr 1655 qre XLMV 1750 k - qqm XLMV 1748 sk



M32c
Russian Air Force
Voyenno-vozdushnyye sily Rossii

13479 kHz, 07-08, 0948 UTC: REA4 Russian Strategic Air "XXX XXX REA4 REA4 21477 KLOWNA 714"
13479 kHz, 07-08, 0949 UTC: 924953 Russian Air Force aircraft sent "DE C/N924953 K"
14508 kHz, 08-08, 0859 UTC: REA4 Russian Strategic Air "EJBVZ RX QSU1 K"



M45

07 August: Carrier switched on and off and chirps between 1656 UTC and 1714 UTC, nothing else. No signal on 5474 kHz until 1716 UTC when a carrier started. Carrier off at 1722 UTC. No transmission noted.

5074 kHz, 28-8, 1702-1707 UTC: carriers off and on

5474 kHz, 28-8, 1704 UTC: a couple of figures. I think 702 00



M89
Chinese military

Stations and strings:

VVV Q2M Q2M Q2M DE NYZ NYZ QSA? k

V 7NPE 7NPE 7NPE DE QV5B QV5B

V DKG6 DKG6 DKG6 DE 3A7D 3A7D

V GKVZ GKVZ GKVZ DE Q7NW Q7NW

V RXP7 RXP7 RXP7 DE CZT2 CZT2

V H2FL H2FL H2FL DE DRV8 DRV8

V WITN WITN WITN DE GNXG GNXG

Messages:

5278 kHz, 26-08, 1108 UTC, Q7NW in traffic

AR NR 227 CK 301 44 0826 1900 = (Probably repeat of msg)
A7D5 6UA5 4ADT (Cont'd)

AR

V GKVZ GKVZ GKVZ DE Q7NW Q7NW

5500 kHz, 27-08, 1147 UTC. Probably QV5B in traffic

NR 013 1945 RMKS 9549 TO 3978

VV VV EE NR 013 1945 RMKS 9549 TO 3978/9543 BT BT

UGT COMM 3978/0900/G17/9543 AR AR

EE NR 0EEEE (The 2 EE before NR are Barred)

VV V UGT COMM BT

3978 TO EEEE

VV UGT COMM BT 3978 /0900/G17/9543 AR

VV UGT COMM BT 3978/0900/G17/9543 AR AR

5500 kHz, 27-08, 1329 UTC, QV5B in traffic

VV VV UGT COMM BT 3068/2200/G17/9543 AR

VV VV UGT COMM BT 3EEEE

VV VV UGT COMM BT 3068/2200/G17/9543 AR

VV VV UGT COMM BT 3068/2200/G1G EEE

VV VV UGT COMM BT 3068/2200/G17/9543 AR AR AR

5801//10180 kHz, 27-08, 1311 UTC, 3A7D in traffic

CK 199 19 0827 2.. RMKS CQ BT BT 6AND 4NA 4T7U UNT...
(Cont'd) AR

7553 kHz, 30-08, 0943 UTC. Modes: CW and USB (voice).

In traffic; 4FGs cut nr, hand sent. Groups run together with lots of mistakes.

3534 t744 64d6 3D3N 3N.

SG MA NR 968 CK 9. 3508 3007 03 =

= NE 3E 3T3UI – 3U43 A4TT 4...

3533 7U4A D446 4D63 DU

ZNN SK ZNN SK

Switched to voice



M97
Vietnamese numbers

Frequency: 10375 kHz
Mode: Morse

Although seldom reported M97 is still alive. I read several reports on the Enigma list and copied one transmission myself via a remote receiver in California.

10375 kHz, 16-08, 1501 UTC: SD74 SN65 in progress



MC03
Chinese Air Defense

On 5 August I was alerted by Ron that a high speed morse station was active on 8817 kHz. The station has a typical chirp that is always there. This specific station/net was first heard back in the early 1960's. Always with the chirp on the carrier. Weird.

The station has been heard on a large number of frequencies, mostly between 8 and 9 MHz. The most popular frequencies are: 7925, 8656, 8800, 8817 and 8950 kHz.

The transmission is as fast as its voice sister, the "Chinese Robot". The morse is sent at a speed of at least 60 WPM. The recording of the transmission on August 5th is on the N&O website. It is the full speed version. I slowed down the recording by 70% to ca. 20 WPM and Jim jotted down the messages. Thanks for that! I have also uploaded a part of the slow version.

8817 kHz, 06-08, 1230 UTC, CW.

Below excerpts of the 15 minute recording.

As usual on this net, the last four characters represent the local time (UTC+8).

NR UNN3 33N5 UT3T
NR 303N DU75 UT3T
NR 3044 3DN5 UT3T
NR 5646 NTN3 UT3T
NR 3064 33A3 UT3D
NR UNAT 65A7 UT3A
NR 5566 NT44 UT3A
NR 55D6 NT3N UT3A
NR UDDT 555N UT3A
NR 5546 NT43 UT3A

NR UD3J A5N4 UT3A
NR 3T53 4373 UT3A
NR _D6_ N3DD UT3A
NR D7_T 5376 UT3A
NR 56__ A54D UT3A
NR 35A4 D73A UT3A
NR 3TD6 NTN3 UT33
NR UN64 A736 UT3A
NR UDDT 553U UT3A
NR UD3T T56N UT3A

NR N3TT 53A5 UT34
NR 3053 73U6 UT34
NR NUNT T5AA UT34
NR NAA4 5D46 UT34
NR UNN3 33N5 UT30
NR 303N NU75 UT30
NR 3T44 3DNT UT30
NR 5646 NTN3 UT30
NR 3064 33A3 UTUD
NR UNAT 65A7 UT3A?

VARIOUS MODES

M42 & X06



Modes:

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

Russian Government & Intelligence



10436 kHz, 27-07, 2-17 UTC:	Russian Intel/Mil. Tentative GRU HFDF net "vvv vvv vvv 3k". Mode: CW
11107 kHz, 04-08, 1120 UTC:	Russian Intel. Mode: FSK 200/1000
18206 kHz, 07-08, 0940 UTC:	Mazielka. Sequence: 246531
17421 kHz, 07-08, 0942 UTC:	Mazielka. Sequence: 246531
17422 kHz, 07-08, 1056 UTC:	Russian diplo. Mode: CROWD-36
9188 kHz, 07-08, 2110 UTC:	Russian Intel. Mode: FSK 200/1000
10184 kHz, 08-08, 0822 UTC:	Mazielka. Sequence: 412356
14630 kHz, 09-08, 1752 UTC:	Russian Diplo. Mode: CROWD-36
13384 kHz, 09-08, 1015 UTC:	Russian Gov/Intel. Mode: Baudot 200/500
15940 kHz, 09-08, 0800 UTC:	Russian Intel. Mode: FSK 200/1000
13591 kHz, 09-08, 0810 UTC:	Russian Intel. Mode: FSK 200/1000
9264 kHz, 10-08, 0902 UTC:	Russian diplo. Mode: CROWD-36
17482 kHz, 11-08, 1200 UTC:	Russian Intel. 00000+++++++162)5761. Mode: FSK 200/500
15967 kHz, 11-08, 1210 UTC:	Russian Intel. 00000+++++++162)5761. Mode: FSK 200/500
11107 kHz, 11-08, 1120 UTC:	Russian Intel. Mode: FSK 200/1000
13409 kHz, 11-08, 1100 UTC:	Russian Intel. Mode: FSK 200/1000
17511 kHz, 13-08, 0858 UTC:	Russian Intel. Mode: FSK 50/500
9140 kHz, 14-08, 0552 UTC:	Russian Gov/Intel. Mode: RUS-ARQ 100/1000
9300 kHz, 14-08, 0559 UTC:	Russian Gov/Intel. Mode: FSK 50/500
9240 kHz, 14-08, 0624 UTC:	Russian Gov/Intel. Mode: RUS-ARQ 100/1000
19843.5 kHz, 14-08, 1616 UTC:	Russian Diplo. Mode: CROWD-36
19843 kHz, 14-08, 1625 UTC:	Russian Diplo. 5FGs traffic. Mode: CROWD-36
18149 kHz, 15-08, 0710 UTC:	Russian Gov/Intel. Mode: RUS-ARQ 100/1000
19878.5 kHz, 16-08, 1630 UTC:	Russian Diplo. Mode: CROWD-36
15868 kHz, 16-08, 1900 UTC:	Russian Intel. Mode: FSK 200/1000
10829 kHz, 16-08, 1900 UTC:	Russian Gov/Intel. Mode: Baudot 200/500
5803 kHz, 16-08, 1920 UTC:	Russian Gov/Intel. Mode: Baudot 200/500
8143 kHz, 16-08, 1910 UTC:	Russian Gov/Intel. Mode: Baudot 200/500
11076 kHz, 17-08, 1025 UTC:	Russian Gov/Intel. Mode: Baudot 200/500
11076 kHz, 17-08, 0710 UTC:	Russian Intel. Mode: FSK 200/1000
12200 kHz, 17-08, 0610 UTC:	Russian Intel. Mode: FSK 200/1000
13384 kHz, 17-08, 1015 UTC:	Russian Gov/Intel. Mode: Baudot 200/500
13509 kHz, 17-08, 0700 UTC:	Russian Intel. Mode: FSK 200/1000
13547 kHz, 17-08, 1043 UTC:	Mazielka. Sequence: 625413
14398 kHz, 17-08, 0600 UTC:	Russian Intel. Mode: FSK 200/1000
10369 kHz, 17-08, 0620 UTC:	Russian Intel. Mode: FSK 200/1000
9052 kHz, 17-08, 0720 UTC:	Russian Intel. Mode: FSK 200/1000
9164 kHz, 17-08, 1035 UTC:	Russian Gov/Intel. Mode: Baudot 200/500
13396 kHz, 18-08, 1220 UTC:	Russian Gov/Intel. Mode: Baudot 200/500
8193 kHz, 23-08, 1806 UTC:	Russian Gov. Mode: CW
DOBV DE KRUG QDD QSA1 QSY 82382 (8104 kHz)	

8104 kHz, 23-08, 1813 UTC:	Russian Gov. Mode: CW DOBV DE KRUG QSA NO QSY 8249T (back to 8193 kHz)
5803 kHz, 23-08, 1920 UTC:	Russian Gov/Intel. Mode: Baudot 200/500
10372 kHz, 27-08, 0937 UTC:	Mazielka. Sequence: 431625
13517 kHz, 27-08, 0957 UTC:	Mazielka. Sequence: 463125
5471 kHz, 29-08, 0445 UTC:	Tussian Gov/Intel. Mode: Baudot 50/500. Marker after every 50 th group
13435 kHz, 29-08, 1920 UTC:	Russian HFDF (AA) net. VVVVV + short message. Mode: CW

The new N&O designator M42a applies to the HFDF net from now on.

Here is the log history that will be added to the N&O database.

8107	0625	31-03-2008	M42a	CW	QSA NO NW Ä 93479 Ä 00140 Ä 373 66 KK
9088	1855	26-03-2008	M42a	CW	... ä 031 ä 77391 K. ää K. ääää 667 ä 63708 K. ä K ...
7697	1152	08-11-2008	M42a	CW	"VVV VVV VVV NW Ä 26010 Ä 09857 Ä 54586 K. K. Ä Ä K"
4544	2023	09-05-2010	M42a	CW	"... 73090 Ä 53424 K"
4544	2040	11-05-2010	M42a	CW	"Ya Ya 98411 Ya 32521 K" // "Ya 32521 K" // "Ya Ya 736 Ya 19179 K" // "Ya 19179 K"
11082	2137	09-08-2010	M42a	CW	"... 76827 KKKK. Ä Ä Ä KKK ..."
	7696	1840	30-03-2011	M42a CW + AM	Callup in CW: 3K 3K 3K and lots of V's followed in AM voice: 1141 1141 55655 (voice drops on the fig 6), ends 00000
11082	1914	14-05-2011	M42a	CW	"VVV VVV K"
11082	1032	06-06-2011	M42a	CW	"VVV VVV VVV 3K"
10436	0341	08-08-2011	M42a	CW	"VVV VVV VVV 3K"
	10436	0645	18-10-2011	M42a FSK/F1B/CW	Traffic. Mode: F1B 81-81/500 end of message, short F1A/500 FSK op-chat and off air, later short control routines using A1A; "VVV 3K" / "3K"
	10436	0657	18-10-2011	M42a FSK/F1B/CW	Traffic. Mode: F1B 81-81/500 end of message, short F1A/500 FSK op-chat and off air, later short control routines using A1A; "VVV 3K" / "3K"
	10436	0845	18-10-2011	M42a FSK/F1B/CW	Traffic. Mode: F1B 81-81/500 end of message, short F1A/500 FSK op-chat and off air, later short control routines using A1A; "VVV 3K" / "3K"
	10436	1002	18-10-2011	M42a FSK/F1B/CW	Traffic. Mode: F1B 81-81/500 end of message, short F1A/500 FSK op-chat and off air, later short control routines using A1A; "VVV 3K" / "3K"
	10436	1015	18-10-2011	M42a FSK/F1B/CW	Traffic. Mode: F1B 81-81/500 end of message, short F1A/500 FSK op-chat and off air, later short control routines using A1A; "VVV 3K" / "3K"
	10436	1031	18-10-2011	M42a FSK/F1B/CW	Traffic. Mode: F1B 81-81/500 end of message, short F1A/500 FSK op-chat and off air, later short control routines using A1A; "VVV 3K" / "3K"
10276	0956	01-01-2012	M42a	CW	"K" answer of "VVV" series on 10 0 kHz
10306	0955	01-01-2012	M42a	CW	"VVV VVV" answered on 10 7 kHz with "K"
13435	1920	29-08-2012	M42a	CW	V marker and short message
11484	1208	19-05-2012	M42a	CW	VVV 1K2 VVV 2K QSV QSA
8107	31-03-2011	M42a	CW+F1B/500		Russian HFDF tracking & intercept net, probably a western chain station with short control routine reply to NCS "Gudok", mil unit 34608, GRU tactical coordination centre Podolsk / Klimovsk; "3k", several A1A short blocks of crypto tracking data; "75985 ä 96578k ä ä ä k "3k" at hh:08 and hh:38 short F1B/150 databursts.
10813.75	31-03-2011	M42a	CW		Russian HFDF tracking & intercept net, unid northern chain station, channel control feedback routines to NCS "Gudok", mil unit 34608, GRU tactical coordination centre Podolsk / Klimovsk. After data sending Podolsk / Klimovsk. After data sending regular but non-scheduled A1A control feedback routines; "3k" on 10814 kHz.
10814	31-03-2011	M42a	CW		Non-scheduled A1A control feedback routines; "3k" on 10814 kHz.

Trond sent us an interesting item about M42a. Thanks for that!!

The net is a Russian GRU controlled HFDF (High Frequency Direction Finding) and intercept net. It has its history back to the days of the first monitoring of the Sputnik and other space launches. In the days of the cold war also the ZVEZDA system was part of this huge network. One of the stations is Net Control Station "Gudok", military unit 34608, GRU tactical coordination centre in Podolsk / Klimovsk.

"AA" (Ä) is the Russian letter Yakov, pronounced "Ya". In Cyrillic it looks like this: "Я"

Often heard with this type of traffic:

VVVV NW NW NW AA 69T22 444T5 365T9 KKK
VVVVV NW NW NW AA AA AA 79324 83968 7 II
VVVVVV QSV QSV QSV
VVVVV NW NW AA AA AA 6 II NW AA 79324 83968 7T972 KKK
VVV NW NW NW

The frequencies found so far for this net:

() = single use, no regular transmissions observed; * = daily activity

2810 kHz
3207 kHz
4103.75, 4200, 4544*, 4559, 4977, 4988* kHz
5280, 5423, 5477, 5504*, 5817, 5825 kHz
6243, 6263, 6374, 6423, 6810, 6812, 6825, 6874, 6934, 6951.5, 6973, (6998.5) kHz
7697* kHz
8107* kHz
9055, 9088, 9142, 9160, 9228, 9316, 9350, 9358 kHz
10126, 10202, 10435.75*, 10436*, 10456, 10535.75, 10814*, 10948 kHz
11041*, 11073*, 11082*, 11484 kHz
13021*, 13066, 13426, 13435 kHz
(14352), 14716 kHz
(16927) kHz
(19354) kHz
20200.4 kHz

Modes:

A1A morse
F1A/F1B morse
F1B DFSK 81-81/500 variant
F1B DFSK 81-81/1000 variant

All the best,

Trond Jacobsen
Hvaler archipelago, SE Norway
59.0333N 11.0333E JO59MA



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

Copied on August 4th at 1922 UTC. Mode: QPS 1500Bd.
Frequencies: 4153, 4231.5, 6250, 6417, 6445, 8313, 8588, 8703.5 kHz



North Korean diplomatic stations

21128.5 kHz, 07-08, 0930 UTC: North Korean diplo. Mode: DPRK-ARQ 600/600
 12220.5 kHz, 09-08, 1117 UTC: MFA Pyongyang wkg DPRK embassy Moscow. Mode: DPRK=ARQ 600/600
 12220.5 kHz, 11-08, 1120 UTC: North Korean diplo. Mode: DPRK-ARQ 600/600
 21323.5 kHz, 24-08, 0926 UTC: North Korean diplo. Mode: DPRK-ARQ 600/600
 16948.4 kHz, 28-08, 1709 UTC: North Korean diplo. Mode: DPRK-ARQ 600/600



Egyptian diplomatic stations

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

11034.8 kHz, 31-08, 2004 UTC, SITOR-A: Egyptian Embassy, Pyongyang. Long-winded plaintext messages
 kds kdktx-ke (unid) jg yslkgq. Off at 2006 UTC.

UTILITY ROUND-UP

Peter logged a Chinese military station on 8129 kHz, at 1815 UTC on 21 August. I asked Westli if he could translate the voice message. Thanks gents.

LO3 was calling A96 in USB/MIL.STD.188-141 ALE followed by Chinese 8 FSK and 600 BPS PSK modem traffic and J3E/USB voice. The speaker was pretty mush-mouthed. A reference to "021" was noted.

Audio clip at <http://soundcloud.com/nl1265/a96-l03-traffic/s-tSICm>



Jammers

Rimantas Pleikys released a film about jamming. Just like the book that he wrote about the subject the film is very informative. Great job, Rimantas ! <http://www.polskieradio.pl/68/2055/video/652120>

12075 kHz, 02-08, 1400 UTC: Vietnamese Siren jammer jamming Radio Free Asia

13635 kHz, 27-08, 1405 UTC: Vietnamese siren jammer jamming Radio Free Asia

The Ethiopian noise jammer, jamming the Voice of the Broad Masses of Eritrea, was audible on 7115, 7120, 7160, 7165, 7170, 7175, 7180, 7185, 7190 kHz on many days in July and August.



Beacons

6851.8 kHz, 12-08, 0940 UTC: Experimental beacon PRV (Preveza, GRC)

See stoudio421.blogspot.gr/

QSL via sw6hmu@yahoo.gr

10133 kHz, 21-08, 0125 UTC: SK6RUD: Beacon Oxaback, SWE. Power: 500 mW.

"VVV QRPP BEACON DE SK6RUD = QTH JO67KI = PSE RPRT TO WWW.RADIORUD.SE ="

See <http://www.radiorud.se> and choose "beacon" for further info an on-line QSL reporting.

Transmitter photo: http://www.radiorud.se/mmm_tx_big_30.jpg

Thanks for the info, Costas.



Pirates

Italian Pirate on 6997 kHz, 24-08, 2106 UTC:

VVV DE HWK7 then after tapping out TEA6 starts his normal messages.



Unid stations

We received unid stations logs from AnEur, Jim, PPA, Dauntless and Attu. Please let us know if you can id these stations.

6921 kHz, 01-08, 0705 UTC, USB voice.

Traffic between LZBO and LZBH in an unidentified language.

3172 kHz, 12-08, 1941 UTC, CW: Unid. Continuous dots.

This unid Morse net was reported by dxers from Alaska via SWL-Nomad and UDXF. The identity or country of origin is still not known. The net used 13095 kHz until mid August, then switched to 13868 kHz and per September 1st to a yet unknown frequency. Logs and info are very welcome !!!

13095 kHz, 16-08: QQ41

13095 kHz, 17-08: XN5M, PYNA, ZIWN, NA3X, QQNC

13868 kHz, 22-08: 5POY contacted stations XDWC, YSK2, ODX4, net chatter 5LG msg's

13868 kHz, 23-08: 5POY contacted stations XSPM, ODX4, YSK2

8183 kHz, 21-08, 0558 UTC: Unid. Call up 997 997 015 015 into 15 5FG message ending 997 997 015 565 55550

Fritz reports an unid CW station on 4900.2 kHz. Copied at 1910 UTC on 24-08, repeating
"vvv vvv test test de ANT ANT ANT k"

An unid submitted by Jim.
6865.5 kHz, 31-08, 1816 UTC, CW.
"RTH62 RTH62 RTH62 de EYA31 EYA31 EYA31 QSA2 QSA? K"
"OK K"

Who is this? Tactical military, or what?

This station sends a time string in a way I have not seen before. Dauntless submitted this log. He copied this Morse station on 6999 kHz at 1538 UTC on 26-08. Format: "Next Minute is 39". When it became 1539 UTC, it changed to "Next Minute is 40".

3770 kHz, 14-08, 2102 UTC, CW: unid pip



Intelligence news

RIA Novosti in Moscow reported on 13-08 another spy case.

A 60-year-old NATO employee at the Ramstein Air Force Base, whose name was given only as Manfred K., was offered over \$10 million by Russia's Federal Security Service (FSB) for access to classified information, the paper said citing a German journalist.

The prosecutor's office in the southwestern German city of Karlsruhe said last Tuesday Manfred K. was believed to have stolen "state secrets" for unidentified "third parties." He is believed to have illegally acquired, as a NATO civilian employee, classified data belonging to his employer at the U.S. armed forces air base at Ramstein and to have copied it onto his personal computer, the prosecutor's office said in a statement.

\$10 million, really??? (Ary)

LOGS SECTION

frequency	date	UTC	enigma	remarks	mode	day contributor
2353	7-8-2012	2123	M32	Russian Mil.	CW	Tue (BCI)
2792.5	12-8-2012	1944	M32	Cipher and clear voice in Russian. In and out of cipher.	CIS-12/AT3004D/USB	Sun (MPJ)
3172	12-8-2012	1941	---	Unid. Continuous dots.	CW	Sun (MPJ)
3266.5	12-8-2012	1936	M21	Russian Air Defence =992336??0?????	CW	Sun (MPJ)
3297	11-8-2012	1859	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	Sat (JPL-HK)
3297	17-8-2012	1355	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	Fri (JPL-HK)
3297	19-8-2012	1604	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	Sun (JPL-HK)
3297	19-8-2012	1936	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	Sun (JPL-HK)
3297	20-8-2012	1148	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	Mon (JPL-HK)
3297	23-8-2012	1629	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	Thu (JPL-HK)
3297	23-8-2012	1917	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	Thu (JPL-HK)
3297	25-8-2012	1133	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	Sat (JPL-HK)
3297	25-8-2012	1216	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	Sat (JPL-HK)
3297	25-8-2012	1703	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	Sat (JPL-HK)
3297	25-8-2012	2030	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	Sat (JPL-HK)
3297	26-8-2012	1142	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	Sun (JPL-HK)
3297	26-8-2012	1533	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	Sun (JPL-HK)
3297	26-8-2012	1609	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	Sun (JPL-HK)
3297	26-8-2012	1832	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	Sun (JPL-HK)
3297	26-8-2012	1932	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	Sun (JPL-HK)
3297	27-8-2012	1144	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	Mon (JPL-HK)
3297	27-8-2012	1302	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	Mon (JPL-HK)
3297	27-8-2012	1507	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	Mon (JPL-HK)
3297	28-8-2012	2027	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	Tue (JPL-HK)
3297	29-8-2012	1248	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	Wed (JPL-HK)
3297	30-8-2012	1348	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	Thu (JPL-HK)
3297	30-8-2012	1831	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	Thu (JPL-HK)
3297	30-8-2012	2111	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	Thu (JPL-HK)
3297	31-8-2012	1156	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	Fri (JPL-HK)
3297	31-8-2012	1250	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	Fri (JPL-HK)
3297	31-8-2012	1434	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	Fri (JPL-HK)
3297	31-8-2012	1544	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	Fri (JPL-HK)
3297	31-8-2012	1828	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	Fri (JPL-HK)
3297	31-8-2012	2200	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	Fri (JPL-HK)
3756	2-8-2012	1725	S30	8S1Shch 88 264 GRADINKA 84 08 12 50 Priyom	USB	(Avare)
3756	15-8-2012	2028	S30	Pip marker	CW	Wed (Daunt)
3756	20-8-2012	0049	S30	The Pip	CW	Mon (LG2)
3756	20-8-2012	1823	S30	8S1Shch 17 899 MONTREL 03 96 95 17 Priyom	USB	Mon (Avare)
3756	23-8-2012	1645	S30	8S1Shch 52 605 VChERASHcnIJ 00 15 70 64 Priyom	USB	Thu (Avare)
3770	14-8-2012	2102	---	Unid pip	CW	Tue (Daunt)
3797	11-8-2012	1903	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	Sat (JPL-HK)
3797	17-8-2012	1649	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	Fri (JPL-HK)
3797	26-8-2012	1137	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	Sun (JPL-HK)
3797	26-8-2012	1534	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	Sun (JPL-HK)
3797	26-8-2012	1611	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	Sun (JPL-HK)
3797	26-8-2012	1836	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	Sun (JPL-HK)
3797	26-8-2012	1936	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	Sun (JPL-HK)
3797	27-8-2012	1305	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	Mon (JPL-HK)

frequency	date	UTC	enigma	remarks	mode	day	contributor
3797	27-8-2012	1509	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	Mon	(JPL-HK)
3797	28-8-2012	2029	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	Tue	(JPL-HK)
3797	29-8-2012	1252	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	Wed	(JPL-HK)
3797	30-8-2012	1354	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	Thu	(JPL-HK)
3797	30-8-2012	1934	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	Thu	(JPL-HK)
3797	30-8-2012	2116	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	Thu	(JPL-HK)
3797	31-8-2012	1158	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	Fri	(JPL-HK)
3797	31-8-2012	1254	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	Fri	(JPL-HK)
3797	31-8-2012	1438	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	Fri	(JPL-HK)
3797	31-8-2012	1548	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	Fri	(JPL-HK)
3797	31-8-2012	1830	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	Fri	(JPL-HK)
3815	3-8-2012	2000	G11	262/00	USB		(AB)
3815	12-8-2012	2000	G11	266/35 Achtung 51184 24010 40578 15793 90373 etc	USB	Sun	(AB)
3815	17-8-2012	2000	G11	262/00	USB	Fri	(HS2)
3815	24-8-2012	2100	G11	565/00	USB	Fri	(Daunt)
3815	26-8-2012	2000	G11	262/00	USB	Sun	(HS2)
3815	31-8-2012	2000	G11	262/00 Ende	USB	Fri	(AB)
3828	15-8-2012	2028	S32	Squeaky Wheel Marker	USB	Wed	(Daunt)
3828	20-8-2012	1827	S32	Al'fa45 46 293 PANICHESKIJ 94 62 16 20 Priyom	USB	Mon	(Avare)
4028	31-8-2012	0115	V02a	LSB, IP; time is approximate	AM	Fri	(KC2TTK)
4120	8-8-2012	2101	M32	Russian Mil. Duplex channel	USB	Wed	(BCI)
4153	4-8-2012	1922	XSL	Japanese Navy a.k.a. Slot Machine	QPSK 1500bd		(AB-HK)
4174.0	12-8-2012	0316	V02a	in progress	AM	Sun	(W1GFD)
4225	1-8-2012	2009	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW		(JPL-HK)
4225	11-8-2012	1852	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	Sat	(JPL-HK)
4225	16-8-2012	1403	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	Thu	(JPL-HK)
4225	16-8-2012	1910	M89	v 7NPE 7NPE 7NPE de QV5B QV5B	CW	Thu	(FN)
4225	16-8-2012	2143	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	Thu	(JPL-HK)
4225	17-8-2012	1026	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	Fri	(JPL-HK)
4225	19-8-2012	1600	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	Sun	(JPL-HK)
4225	20-8-2012	1141	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	Mon	(JPL-HK)
4225	21-8-2012	1026	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	Tue	(JPL-HK)
4225	21-8-2012	1556	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	Tue	(JPL-HK)
4225	21-8-2012	1910	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	Tue	(JPL-HK)
4225	25-8-2012	1040	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	Sat	(JPL-HK)
4225	26-8-2012	1101	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	Sun	(JPL-HK)
4225	26-8-2012	1134	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	Sun	(JPL-HK)
4225	26-8-2012	1529	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	Sun	(JPL-HK)
4225	26-8-2012	1605	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	Sun	(JPL-HK)
4225	27-8-2012	1138	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	Mon	(JPL-HK)
4225	27-8-2012	1147	M89	Msg NR 013 1945 RMKS 9549 TO 3978 //5500	CW	Mon	(JPL-HK)
4225	27-8-2012	1257	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	Mon	(JPL-HK)
4225	27-8-2012	1329	M89	VV VV UGT COMM BT 3068/2200/G17/9543 AR V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	Mon	(JPL-HK)
4225	27-8-2012	1503	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	Mon	(JPL-HK)
4225	29-8-2012	1244	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	Wed	(JPL-HK)
4225	30-8-2012	1033	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	Thu	(JPL-HK)
4225	30-8-2012	1344	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	Thu	(JPL-HK)
4225	30-8-2012	1826	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	Thu	(JPL-HK)
4225	30-8-2012	2240	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	Thu	(JPL-HK)

frequency	date	UTC	enigma	remarks	mode	day	contributor
4225	31-8-2012	1151	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	Fri	(JPL-HK)
4225	31-8-2012	1246	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	Fri	(JPL-HK)
4225	31-8-2012	1430	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	Fri	(JPL-HK)
4225	31-8-2012	1540	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	Fri	(JPL-HK)
4225	31-8-2012	1818	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	Fri	(JPL-HK)
4225	31-8-2012	2156	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	Fri	(JPL-HK)
4231.5	4-8-2012	1922	XSL	Japanese Navy a.k.a. Slot Machine	QPSK 1500bd		(AB-HK)
4310	19-8-2012	2003	M22	4XZ Israeli Navy Haifa	CW	Sun	(Daunt)
4331	28-8-2012	2157	M22	4XZ IDF/Israeli Navy Haifa 5LGs end AR VVV DE 4XZ 4XZ	CW	Tue	(LG2)
4343	1-8-2012	1431	VC01	Chinese Robot in progress	USB		(AB-HK)
4430	28-8-2012	2206	M32a	RIT Russian Navy wkg RDL RADIOPREIGNOZ broadcast	CW	Tue	(LG2)
4441	7-9-2012	1942	M32	LDBO: Russian Military Bcast "LDBO QTC 220 24 7 2340 220 ZBZ 0_0 = 54027 72907 ... 70720 07__4 AR."	CW		(MPJ)
4457.0	25-8-2012	2347	M51	ip	CW	Sat	(FMB)
4512	11-8-2012	1903	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	Sat	(JPL-HK)
4512	16-8-2012	1408	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	Thu	(JPL-HK)
4512	17-8-2012	1649	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	Fri	(JPL-HK)
4512	19-8-2012	1608	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	Sun	(JPL-HK)
4512	19-8-2012	1938	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	Sun	(JPL-HK)
4512	20-8-2012	1151	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	Mon	(JPL-HK)
4512	21-8-2012	1603	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	Tue	(JPL-HK)
4512	21-8-2012	1913	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	Tue	(JPL-HK)
4512	22-8-2012	1616	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	Wed	(JPL-HK)
4512	30-8-2012	1834	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	Thu	(JPL-HK)
4512	30-8-2012	2116	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	Thu	(JPL-HK)
4512	31-8-2012	1158	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	Fri	(JPL-HK)
4512	31-8-2012	1254	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	Fri	(JPL-HK)
4512	31-8-2012	1438	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	Fri	(JPL-HK)
4512	31-8-2012	1548	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	Fri	(JPL-HK)
4512	31-8-2012	1830	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	Fri	(JPL-HK)
4544	9-5-2010	2023	M42a	"... 73090 Ä 53424 K".	CW		
4544	11-5-2010	2040	M42a	"Ya Ya 98411 Ya 32521 K" // "Ya 32521 K" // "Ya Ya 736 Ya 19179 K" // "Ya 19179 K"	CW		
4557.9	31-8-2012	2103	MX	Beacon "S"	CW	Fri	(AB)
4572	14-8-2012	2112	S28	Buzzer, unusual frequency	USB	Tue	(Daunt)
4575	23-8-2012	1854	S28	Buzzer in AM with USB component mainly suppressed	USB	Thu	(Daunt)
4590	1-8-2012	1526	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW		(JPL-HK)
4590	1-8-2012	2011	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW		(JPL-HK)
4590	11-8-2012	1855	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	Sat	(JPL-HK)
4590	21-8-2012	1558	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	Tue	(JPL-HK)
4590	21-8-2012	1912	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	Tue	(JPL-HK)
4590	25-8-2012	1701	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	Sat	(JPL-HK)
4590	25-8-2012	2028	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	Sat	(JPL-HK)
4590	26-8-2012	1531	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	Sun	(JPL-HK)
4590	26-8-2012	1607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	Sun	(JPL-HK)
4590	26-8-2012	1830	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	Sun	(JPL-HK)
4590	26-8-2012	1931	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	Sun	(JPL-HK)
4590	27-8-2012	1140	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	Mon	(JPL-HK)

frequency	date	UTC	enigma	remarks	mode	day	contributor
4590	27-8-2012	1300	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	Mon	(JPL-HK)
4590	27-8-2012	1505	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	Mon	(JPL-HK)
4590	27-8-2012	1918	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	Mon	(JPL-HK)
4590	28-8-2012	2025	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	Tue	(JPL-HK)
4590	29-8-2012	1246	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	Wed	(JPL-HK)
4590	30-8-2012	1346	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	Thu	(JPL-HK)
4590	30-8-2012	1828	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	Thu	(JPL-HK)
4590	30-8-2012	2108	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	Thu	(JPL-HK)
4590	31-8-2012	1153	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	Fri	(JPL-HK)
4590	31-8-2012	1248	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	Fri	(JPL-HK)
4590	31-8-2012	1432	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	Fri	(JPL-HK)
4590	31-8-2012	1542	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	Fri	(JPL-HK)
4590	31-8-2012	2158	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	Fri	(JPL-HK)
4592	28-8-2012	2123	M22	4XZ IDF/Israeli Navy Haifa 5LGs end VVV de 4XZ	CW	Tue	(LG2)
4594	22-8-2012	2325	M22	4XZ IDF/Israeli Navy Haifa coded text ends with AR VVV VVV DE 4XZ	CW	Wed	(LG2)
4594	24-8-2012	2035	M22	4XZ Israeli Navy Haifa	CW	Fri	(Daunt)
4625	1-8-2012	1506	S28	MDZhB 88 633 GADZhaN'E 13 93 91 87	USB		(Avare)
4625	11-8-2012	0001	S28	The Buzzer	USB	Sat	(LG2)
4625	13-8-2012	0707	S28	MDZhB 62 403 NAGORELYJ 03 50 08 50	USB	Mon	(Avare)
4625	13-8-2012	0713	S28	MDZhB 83 995 MAGNITIZM 13 53 30 32 (not repeated)	USB	Mon	(Avare)
4625	15-8-2012	0915	S28	MDZhB 99 432 MAGAYuR 37 61 34 25	USB	Wed	(Avare)
4625	15-8-2012	0921	S28	MDZhB 80 708 GAVYuLA 74 06 87 18..repeat...MDZhB 80 708 GAVYuLA 74 08 88..87 18	USB	Wed	(Avare)
4625	15-8-2012	0933	S28	MDZhB 99 432 LAVOChNYJ 40 72 99 77 ZAVODSKOJ 13 98 93 04	USB	Wed	(Avare)
4625	15-8-2012	0942	S28	MDZhB 34 925 LAVOChNYJ 40 72 99 77 ZAVODSKOJ 13 98 93 04 wrong key group	USB	Wed	(Avare)
4625	16-8-2012	0718	S28	MDZhB 93 073 RAVANA 24 91 94 81	USB	Thu	(Avare)
4625	16-8-2012	0718	S28	MDZhB 08 116 NAVIS' 44 22 26 12 Priyom	USB	Thu	(Avare)
4625	16-8-2012	1007	S28	MDZhB 99 719 KABALKA 34 92 94 27 Priyom	USB	Thu	(Avare)
4625	16-8-2012	1156	S28	MDZhB 03 554 BABEJ 95 96 54 63 Priyom	USB	Thu	(Avare)
4625	16-8-2012	1202	S28	MDZhB 92 534 TEKSTOLIT 47 95 53 31 BEKMANIYa 39 35 47 65 BEKACHINYJ 34 71 20 30 Priyom	USB	Thu	(Avare)
4625	16-8-2012	1235	S28	MDZhB 15 973 TcEZARIZLE 34 56 07 09 MEZhPOLO-S'E 03 97 33 21 MEDSESTRA 75 85 40 03 Priyom	USB	Thu	(Avare)
4625	16-8-2012	1257	S28	MDZhB 32 917 MEDOVKA 62 60 25 45 Priyom	USB	Thu	(Avare)
4625	16-8-2012	1634	S28	MDZhB 47 109 MEDITcEL 74 30 25 32 Priyom	USB	Thu	(Avare)
4625	25-8-2012	0358	S28	4T5K P sboj sboj sboj 4T5K 5PAKh 4T5K 5PAKh VITsULLIN 64 94	USB	Sat	(AB-EST)
4625	26-8-2012	1346	S28	MDZhB 75 250 GEGEChKORETc 03 41 06 41 MEGA-LOZAVR 53 05 22 45	USB	Sun	(AB-EST)
4625	26-8-2012	1346	S28	MDZhB 75 250 GEGEChKORETc 03 41 06 41 MEGA-LOZAVR 53 05 22 45	USB	Sun	(Avare)
4625	27-8-2012	----	S28	MDZhB VITcA 29 42	USB	Mon	(Avare)
4625	27-8-2012	1030	S28	MDZhB 98 911 REVMANOL 50 88 56 52 NEVKUSNYJ 59 69 08 39	USB	Mon	(Avare)
4625	27-8-2012	1043	S28	MDZhB 93 518 LEVICHAR 94 26 77 59 NEVZRACHNYJ 25 47 81 29	USB	Mon	(Avare)
4625	27-8-2012	1100	S28	MDZhB 90 728 TYeVYeRON 85 33 69 95	USB	Mon	(Avare)
4625	27-8-2012	1203	S28	MDZhB 79 815 FEBRDIOL 16 80 30 38... (other	USB	Mon	(Avare)

frequency	date	UTC	enigma	remarks	mode	day contributor
				voice: "ne sebya tol?ko, da?") repeat msg.		
4625	27-8-2012	1228	S28	MDZhB 53 722 ZEAZIN 41 05 61 19	USB	Mon (Avare)
4625	27-8-2012	1320	S28	MDZhB 09 676 ADOPTATciYA 83 51 95 39	USB	Mon (Avare)
4625	29-8-2012	1216	S28	MDZhB 61 171 UDOBNYJ 67 64 07 16 ODKORA 55 16 31 82	USB	Wed (AB-EST)
4625	29-8-2012	1243	S28	MDZhB 82 705 JEDINENIJE 60 31 43 39 ADIANTUM 38 54 76 24	USB	Wed (AB-EST)
4625	29-8-2012	1255	S28	MDZhB 16 433 ITEOSOMA 46 47 50 24	USB	Wed (AB-EST)
4625	29-8-2012	1408	S28	MDZhB 72 420 UDAR 21 74 98 70	USB	Wed (AB-EST)
4625	29-8-2012	1420	S28	MDZhB 84 405 SDANNYJ 23 55 20 03	USB	Wed (AB-EST)
4625	29-8-2012	1528	S28	MDZhB 01 677 AGRIKOLIT 92 44 70 25	USB	Wed (AB-EST)
4625	29-8-2012	1642	S28	MDZhB 79 753 EGRITIF 30 16 54 22	USB	Wed (AB-EST)
4625	29-8-2012	1644	S28	MDZhB 59 981 VGON 59 59 48 56	USB	Wed (AB-EST)
4625	30-8-2012	0802	S28	4T5K 5PAKh 4T5K 5PAKh VIKhORD 05	USB	Thu (AB-EST)
4625	30-8-2012	1136	S28	MDZhB 64 915 UGOVORNYJ 09 15 70 15	USB	Thu (AB-EST)
4625	30-8-2012	1143	S28	MDZhB 27 624 UGLOVOJ 61 41 79 74	USB	Thu (AB-EST)
4625	31-8-2012	0705	S28	New buzzer. The old one stopped at 0657 UTC	USB	Fri (AB-EST)
4635	19-8-2012	2009	S28	Parasitic Buzzer	USB	Sun (Daunt)
4643	7-8-2012	1330	S06c	11513 11513 11513 (R3)	AM	Tue (Avare)
4665.5	15-8-2012	2025	S28	Parasitic Buzzer sounding like a very sick cow	USB	Wed (Daunt)
4683	3-8-2012	1742	XM	Feed back in progress	USB	(Avare)
4783	8-8-2012	2020	E06	154 0	AM	Wed (HFD)
4807	15-8-2012	2107	M32a	Russian Navy in progress	CW	Wed (DLBB)
4860	1-8-2012	1520	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	(JPL-HK)
4860	1-8-2012	2020	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	(JPL-HK)
4860	11-8-2012	1920	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	Sat (JPL-HK)
4860	13-8-2012	1719	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	Mon (JPL-HK)
4860	16-8-2012	1420	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	Thu (JPL-HK)
4860	19-8-2012	1620	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	Sun (JPL-HK)
4860	21-8-2012	1620	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	Tue (JPL-HK)
4860	21-8-2012	1920	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	Tue (JPL-HK)
4860	22-8-2012	1620	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	Wed (JPL-HK)
4860	23-8-2012	1619	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	Thu (JPL-HK)
4860	23-8-2012	1919	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	Thu (JPL-HK)
4860	25-8-2012	1719	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	Sat (JPL-HK)
4860	25-8-2012	2020	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	Sat (JPL-HK)
4860	25-8-2012	2219	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	Sat (JPL-HK)
4860	26-8-2012	1620	M89	(In progress) VVV (x3) Q2M DE NYZ (x2) QSA? K //6840	CW	Sun (JPL-HK)
4860	27-8-2012	1320	M89	(In progress) VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	Mon (JPL-HK)
4860	27-8-2012	1520	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	Mon (JPL-HK)
4860	27-8-2012	1919	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	Mon (JPL-HK)
4860	30-8-2012	1820	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	Thu (JPL-HK)
4860	30-8-2012	2120	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	Thu (JPL-HK)
4860	31-8-2012	1820	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	Fri (JPL-HK)
4956	8-8-2012	2044	M51	FAV22: French CSTEI Favières 2044 "NR 34 A 08 22:49:47 1984 BT YMOFI RKBHD"	CW	Wed (MPJ)
4956.0	29-8-2012	1810	M51	ip	CW	Wed (FMB)
4973	28-8-2012	1742	S21	973 702 31 5FGs 702 31 000 //5373 not heard	USB	Tue (AB)
5074	28-8-2012	1702	S21	1702-1707 UTC: carriers off and on	USB	Tue (AB)
5096	9-8-2012	1840	M32	Russian Mil. c/s GFYB. Duplex channel	CW	Thu (BCI)

frequency	date	UTC	enigma	remarks	mode	day contributor
5137	17-8-2012	2130	E06	315 540 15 42516 78016 ... 28493	AM	Fri (HS2)
5153.7	18-8-2012	2033	MX	Beacon "D"	CW	Sat (AB)
5153.7	22-8-2012	1835	MX	Beacon "D"	CW	Wed (AB)
5153.7	28-8-2012	2239	MX	Beacon "D"	CW	Tue (LG2)
5153.7	31-8-2012	2103	MX	Beacon "D"	CW	Fri (AB)
5153.9	22-8-2012	1835	MX	Beacon "S"	CW	Wed (AB)
5153.9	28-8-2012	2239	MX	Beacon "S"	CW	Tue (LG2)
5153.9	31-8-2012	2103	MX	Beacon "S"	CW	Fri (AB)
5154	8-8-2012	2230	MX	Beacon "C"	CW	Wed (LG2)
5154	28-8-2012	2239	MX	Beacon "C"	CW	Tue (LG2)
5214.5	28-8-2012	0348	M32	CHS6: CIS Mil. duplex net, net control, QSA? QRK to CCGS ,PNGN and GBM6	CW	Tue (PPA)
5220	12-8-2012	2253	M21	Russian Air Defence	CW	Sun (LG2)
5220	28-8-2012	2325	M21	Russian Air Defence	CW	Tue (LG2)
5221.5	7-8-2012	1958	M21	Russian Air Defence =992358??0?????	CW	Tue (MPJ)
5221.5	28-8-2012	0327	M21	Russian Air Defence =99T647??T?????	CW	Tue (PPA)
5230	6-8-2012	2347	M89	V DKG6 DKG6 DKG6 DE 3A7D 3A7D	CW	Mon (LG2)
5230	11-8-2012	1857	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	Sat (JPL-HK)
5230	19-8-2012	1606	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	Sun (JPL-HK)
5230	25-8-2012	1705	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	Sat (JPL-HK)
5230	25-8-2012	2208	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	Sat (JPL-HK)
5230	26-8-2012	1535	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	Sun (JPL-HK)
5230	26-8-2012	1613	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	Sun (JPL-HK)
5230	26-8-2012	1834	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	Sun (JPL-HK)
5230	26-8-2012	1934	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	Sun (JPL-HK)
5230	27-8-2012	1507	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	Mon (JPL-HK)
5230	27-8-2012	1925	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	Mon (JPL-HK)
5230	30-8-2012	1832	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	Thu (JPL-HK)
5230	30-8-2012	2113	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	Thu (JPL-HK)
5230	31-8-2012	1436	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	Fri (JPL-HK)
5230	31-8-2012	1546	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	Fri (JPL-HK)
5230	31-8-2012	2202	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	Fri (JPL-HK)
5278	17-8-2012	1037	M89	9In tfc - 4 fig cut nrs - mostly U/R).... DE Q7NW (1107z)	CW	Fri (JPL-HK)
5278	21-8-2012	1034	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	Tue (JPL-HK)
5278	23-8-2012	1041	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	Thu (JPL-HK)
5278	24-8-2012	1033	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	Fri (JPL-HK)
5278	26-8-2012	1108	M89	In tfc AR NR 227 CK 301 44 0826 1900 = A7D5 6UA5 4ADT (Cont'd) AR V GKVZ (x3) DE Q7NW (x2)	CW	Sun (JPL-HK)
5278	30-8-2012	0932	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	Thu (JPL-HK)
5278	30-8-2012	1029	M89	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	Thu (JPL-HK)
5280	28-8-2012	1800	M01	025	CW	Tue (AB)
5284	6-8-2012	1700	G06	154 0	AM	Mon (HFD)
5320.0	1-8-2012	1940	M51	ip	CW	Wed (FMB)
5345	30-8-2012	1755	M23?	135 135 135 ends with a dash	CW	Thu (Chief)
5345.0	29-8-2012	1752	M23	135	CW	Wed (FMB)
5373	16-8-2012	1742	S21	973 702 31 10456 17901 ... 54374 702 31 000	USB	Thu (Avare)
5373	28-8-2012	1742	S21	973 702 31 10456 17901 54374	USB	Tue (HS2)
5419.0	16-8-2012	1912	M51	ip	CW	Thu (FMB)
5419.0	17-8-2012	0410	M51	ip	CW	Fri (FMB)
5424.0	17-8-2012	2007	M51	ip	CW	Fri (FMB)

frequency	date	UTC	enigma	remarks	mode	day	contributor
5448	21-8-2012	0840	S30	8S1Shch 48 661 RASShchETNYH 13 89 41 56 Priyom	USB	Tue	(Avare)
5465	17-8-2012	1903	M01b	467 326 30 = 72964 42084...	CW	Fri	(HS2)
5465	24-8-2012	2009	M01b	168 34 5FGs	CW	Fri	(Daunt)
5471	29-8-2012	0445	M42	Russian Gov/Mil. Marker after each 50th group	Baudot 50/500	Wed	(BCI)
5473	21-8-2012	0845	S32	Al'fa45 40 086 EHIDSTVO 58 24 80 69 Priyom	USB	Tue	(Avare)
5473	23-8-2012	1649	S32	Al'fa45 58 960 KRIGLA 52 75 99 81 Priyom	USB	Thu	(Avare)
5474	23-8-2012	1702	M45		CW	Thu	(Avare)
5474	28-8-2012	1702	S21	Silent till 1704 UTC, then a couple of figures "702"	USB	Tue	(AB)
5500	1-8-2012	1518	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW		(JPL-HK)
5500	1-8-2012	2009	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW		(JPL-HK)
5500	11-8-2012	1852	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	Sat	(JPL-HK)
5500	13-8-2012	1707	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	Mon	(JPL-HK)
5500	16-8-2012	1403	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	Thu	(JPL-HK)
5500	16-8-2012	2143	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	Thu	(JPL-HK)
5500	17-8-2012	1026	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	Fri	(JPL-HK)
5500	19-8-2012	1600	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	Sun	(JPL-HK)
5500	20-8-2012	1141	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	Mon	(JPL-HK)
5500	21-8-2012	1026	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	Tue	(JPL-HK)
5500	21-8-2012	1556	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	Tue	(JPL-HK)
5500	21-8-2012	1919	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	Tue	(JPL-HK)
5500	22-8-2012	1612	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	Wed	(JPL-HK)
5500	23-8-2012	1045	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	Thu	(JPL-HK)
5500	23-8-2012	1618	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	Thu	(JPL-HK)
5500	23-8-2012	1913	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	Thu	(JPL-HK)
5500	23-8-2012	1925	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	Thu	(JPL-HK)
5500	24-8-2012	1025	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	Fri	(JPL-HK)
5500	25-8-2012	1040	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	Sat	(JPL-HK)
5500	25-8-2012	1142	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	Sat	(JPL-HK)
5500	25-8-2012	1659	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	Sat	(JPL-HK)
5500	25-8-2012	2026	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	Sat	(JPL-HK)
5500	25-8-2012	2204	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	Sat	(JPL-HK)
5500	26-8-2012	1828	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	Sun	(JPL-HK)
5500	26-8-2012	1929	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	Sun	(JPL-HK)
5500	27-8-2012	1138	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	Mon	(JPL-HK)
5500	27-8-2012	1147	M89	Msg NR 013 1945 RMKS 9549 TO 3978 //4225	CW	Mon	(JPL-HK)
5500	27-8-2012	1257	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	Mon	(JPL-HK)
5500	27-8-2012	1329	M89	VV VV UGT COMM BT 3068/2200/G17/9543 AR V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	Mon	(JPL-HK)
5500	27-8-2012	1503	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	Mon	(JPL-HK)
5500	27-8-2012	1916	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	Mon	(JPL-HK)
5500	29-8-2012	1244	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	Wed	(JPL-HK)
5500	30-8-2012	1033	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	Thu	(JPL-HK)
5500	30-8-2012	1344	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	Thu	(JPL-HK)
5500	30-8-2012	1826	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	Thu	(JPL-HK)
5500	30-8-2012	2107	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	Thu	(JPL-HK)
5500	30-8-2012	2240	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	Thu	(JPL-HK)
5500	31-8-2012	1151	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	Fri	(JPL-HK)
5500	31-8-2012	1246	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	Fri	(JPL-HK)
5500	31-8-2012	1430	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	Fri	(JPL-HK)
5500	31-8-2012	1540	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	Fri	(JPL-HK)
5500	31-8-2012	1818	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	Fri	(JPL-HK)

frequency	date	UTC	enigma	remarks	mode	day contributor
5500	31-8-2012	2156	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	Fri (JPL-HK)
5740.0	4-8-2012	0549	M51	ip	CW	Sat (FMB)
5752	10-8-2012	2247	M21	Russian Air Defense =99T144?8?????	CW	Fri (LG2)
5769	8-8-2012	1920	E06	154 0	AM	Wed (HFD)
5781.0	19-8-2012	1830	M51	ip	CW	Sun (FMB)
5788	8-8-2012	1740	M12	463 1	CW	Wed (HFD)
5800	28-7-2012	0607	M08a	ip Continued from 0606 on 5800; 0634 "SK"	CW	(KC2TTK)
5800	4-8-2012	0600	M08a	Tx begins, very vaint	CW	(KC2TTK)
5800	5-8-2012	0559	M08a	Tx begins, very faint; 0619 QRN+QRM intensified, Rx unintelligible; 0651 off-air	CW	Sun (KC2TTK)
5800	6-8-2012	0600	M08a	Tx begins, extremely faint signal; 0601 blinked a few times; 0602 M08a resumes, faint but better signal; 0619 "EEE AA A TTT AAA", 0655 off-air	CW	Mon (KC2TTK)
5800	10-8-2012	0600	M08a	Tx begins	CW	Fri (KC2TTK)
5800	12-8-2012	0608	M08a	IP	CW	Sun (KC2TTK)
5800	13-8-2012	0559	M08a	Tx begins	CW	Mon (KC2TTK)
5800	18-8-2012	0600	M08a	Tx begins, heavy QRN (thunderstorms in YC); 0643 off air	CW	Sat (KC2TTK)
5800	19-8-2012	0607	M08a	IP, severe QRM; 0611 blink; 0613 blink, stronger signal; 0615 blink	CW	Sun (KC2TTK)
5800	21-8-2012	0600	M08a	Tx begins; 0635 "SK"; 0653 off air	CW	Tue (KC2TTK)
5800	23-8-2012	0617	Mixed	SK01 RDFT Tx, faint signal; 0558 M08a Tx begins	CW/RDFT	Thu (KC2TTK)
5800	24-8-2012	0602	M08a	Tx begins presumably ip	CW	Fri (KC2TTK)
5800	25-8-2012	0600	M08a	Tx begins and goes off air shortly thereafter	CW	Sat (KC2TTK)
5800	26-8-2012	0625	M08a	IP; was still on the air at 0700	CW	Sun (KC2TTK)
5800	29-8-2012	0702	SK01	RDFT Tx IP	RDFT	Wed (KC2TTK)
5800	31-8-2012	0603	M08a	Barely audible	CW	Fri (KC2TTK)
5801	25-8-2012	1136	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	Sat (JPL-HK)
5801	27-8-2012	1304	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	Mon (JPL-HK)
5801	27-8-2012	1311	M89	CK 199 19 0827 2.. RMKS CQ BT BT 6AND 4NA 4T7U UNT... (Cont'd) AR V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	Mon (JPL-HK)
5801	29-8-2012	1250	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	Wed (JPL-HK)
5801	30-8-2012	1351	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	Thu (JPL-HK)
5801	31-8-2012	1252	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	Fri (JPL-HK)
5803.0	16-8-2012	1920	M42	Russian Gov/Intel.	Baudot 200/ 500	Thu (FMB)
5803.0	23-8-2012	1920	M42	Russian Gov/Intel.	Baudot 200/ 500	Thu (FMB)
5815	5-8-2012	1755	G11	270/00	USB	Sun (HFD)
5815	7-8-2012	1755	G11	270/00	USB	Tue (AB)
5815	11-8-2012	1020	S11a	221/00	USB	Sat (Chief)
5815	11-8-2012	1020	S11a	221/00	USB	Sat (HFD)
5815	12-8-2012	1757	G11	270/00	USB	Sun (DLBB)
5815	14-8-2012	1755	G11	278/32 Achtung 01673 95146 58689 02247	USB	Tue (Avare)
5815	25-8-2012	1020	S11a	221/00	USB	Sat (HS2)
5815	25-8-2012	1325	G11	299/00	USB	Sat (AB-D)
5815	26-8-2012	1755	G11	270/00	USB	Sun (HS2)
5815	28-8-2012	1755	G11	270/00 Ende	USB	Tue (AB)
5815	28-8-2012	1755	G11	270/00	USB	Tue (HS2)
5815.0	26-8-2012	1755	G11	ID 270/00	USB	Sun (PanDR)
5838	8-8-2012	2105	M32a	RIT: Severomorsk Naval Radio "RLO de RIT QTC 610 34 9 0057 610 = RADIOPROGNOZ 09082 03003 30101 .. 00612 50011 +"	CW	Wed (MPJ)

frequency	date	UTC	enigma	remarks	mode	day contributor
5883	30-7-2012	0700	V02a	"ATENCIÓN 24711 37132 41461"	AM	(KC2TTK)
5883	5-8-2012	0659	V02a	"ATENCIÓN 24622 35462 48781", Headers "8285* *0213", "04333 03084", & "57522 51758"; 0741 "FINAL FINAL FINAL"; Very strong QRM throughout from WWCR, switched between 5883 LSB & 5882 USB	AM	Sun (KC2TTK)
5883	6-8-2012	0700	V02a	Barely audible	AM	Mon (KC2TTK)
5883	11-8-2012	0716	V02a	IP; 0742 "FINAL" said only once; 0743 off air	AM	Sat (KC2TTK)
5883	13-8-2012	0700	V02a	Very faint	AM	Mon (KC2TTK)
5883	18-8-2012	0700	V02a	Barely audible callup ("ATENCIÓN ***** *****"), faint signal, strong QRN (thunderstorms in NYC)	AM	Sat (KC2TTK)
5883	19-8-2012	0700	V02a	Atencion 64201 75831 88262 LG 15180	AM	Sun (Dan)
5883	19-8-2012	0702	V02a	"Ocho..."; eventually V02a began ip	AM	Sun (KC2TTK)
5883	20-8-2012	0700	V02a	Atencion 40721 53252 66572 LG 71801	AM	Mon (Dan)
5883	21-8-2012	0700	V02a	Barely audible Tx; 0742 off air	AM	Tue (KC2TTK)
5883	23-8-2012	0700	V02a	Unintelligible callup ("ATENCIÓN ***** *****")	AM	Thu (KC2TTK)
5883	25-8-2012	0706	V02a	IP, first message header "0856[23?]"	AM	Sat (KC2TTK)
5883	27-8-2012	0700	V02a	Atencion 66111 70542 83861	AM	Mon (HS2)
5883	27-8-2012	0700	V02A	"ATENCIÓN 66111 7**42 8*8**"; 0731 QRM from WWCR (5890KHz) jammed the signal	AM	Mon (KC2TTK)
5883	31-8-2012	0700	V02a	Atencion 25402 38831 42252 LG 31272	AM	Fri (Dan)
5893	22-8-2012	2311	M51	BT NR 51 A 23 00:16:01 1984 BT	CW	Wed (LG2)
5896.0	2-8-2012	1611	M51	ip	CW	Thu (FMB)
5898	28-7-2012	0505	M08a	ip; 0540 dead air; 0600 M08a resumes; 606 off-air	CW	(KC2TTK)
5898	4-8-2012	0800	V02a	Atencion ?????? 33622 LG 55811	AM	(Dan)
5898	5-8-2012	0503	M08a	Tx begins, very faint; 0552 off-air	CW	Sun (KC2TTK)
5898	5-8-2012	0800	V02a	Atencion 24622 35462 48781 LG 63684	AM	Sun (Dan)
5898	6-8-2012	0500	M08a	Tx begins, faint signal; 0547 off-air	CW	Mon (KC2TTK)
5898	6-8-2012	0800	V02a	Barely audible	AM	Mon (KC2TTK)
5898	9-8-2012	0800	V02a	Atencion 71661 84102 06422 LG 91134	AM	Thu (Dan)
5898	10-8-2012	0453	SK01	Persumably Txed at 0459 and 0504; 0507 blinked a few times; 0509 RDFT Tx, subsequent Txs every 5'; 0551 off air	RDFT	Fri (KC2TTK)
5898	10-8-2012	0800	V02a	Atencion 78081 82322 15742 LG ??????	AM	Fri (Dan)
5898	11-8-2012	0501	M08a		CW	Sat (KC2TTK)
5898	11-8-2012	0744	V02a	Unintelligible callup ("ATENCIÓN ***** *****"), faint signal, strong QRM	AM	Sat (KC2TTK)
5898	12-8-2012	0505	M08a	ip	CW	Sun (KC2TTK)
5898	12-8-2012	0800	V02a	Atencion 61511 72241 05571 LG ??????	AM	Sun (Dan)
5898	13-8-2012	0500	M08a	IP; 0537 "SK"; 0552 off air	CW	Mon (KC2TTK)
5898	13-8-2012	0750	Oops	Dead air; 0822 blip of V02a "Cero, Ocho...", then dead air again; 0842 off air	CW	Mon (KC2TTK)
5898	15-8-2012	0600	SK01	RDFT Tx, subsequent Txs every 5'	RDFT	Wed (KC2TTK)
5898	17-8-2012	0800	V02a	Atencion 13282 36522 40841 LG 61067	AM	Fri (Dan)
5898	18-8-2012	0501	M08a	Tx begins, strong QRN (thunderstorms in NYC); 0558 off air	CW	Sat (KC2TTK)
5898	18-8-2012	0800	V02a	Atencion 28241 40871 53302 LG 50383. Señorita Habana sent "11111" 2.2 minutes before the mes- sage	AM	Sat (Dan)
5898	19-8-2012	0505	M08a	Tx begins, likely ip	CW	Sun (KC2TTK)
5898	20-8-2012	0500	M08a	Tx begins	CW	Mon (KC2TTK)

frequency	date	UTC	enigma	remarks	mode	day contributor
5898	20-8-2012	0800	V02a	Atencion 40721 53252 66572 LG 78288	AM	Mon (Dan)
5898	23-8-2012	0505	M08a	IP; 0534 "SK"; 0544 off air	CW	Thu (KC2TTK)
5898	24-8-2012	0505	M08a	Tx begins; 0532 "EEEE EEEE EEEE"; 0539 "SK"; 0549 off air	CW	Fri (KC2TTK)
5898	25-8-2012	0501	M08a	Tx begins; 0538 "SK"; 0554 off air	CW	Sat (KC2TTK)
5898	25-8-2012	0800	V02a	Atencion 72811 85242 08562 LG ?7761	AM	Sat (Dan)
5898	26-8-2012	0800	V02a	Barely audible callup ("ATENCIÓN ***** *****"), faint signal	AM	Sun (KC2TTK)
5898	26-8-2012	0822	SK01	Tx preamble tone, no payload/message; 0823 SK01 RDFT Tx, incomplete message (no postamble tone)	RDFT	Sun (KC2TTK)
5898	28-8-2012	0756	SK01	Brief transmission	RDFT	Tue (Dan)
5898	29-8-2012	0629	SK01	RDFT Tx faded in and out (as usual); subsequent Tx at 0634; 0636 RDFT Tx faded in and out (as usual); subsequent Tx every 5'; 0651 off air in the middle of an RDFT Tx	RDFT	Wed (KC2TTK)
5898	30-8-2012	0800	V02a	Atencion 74231 65861 98282 LG ?????	AM	Thu (Dan)
5947	9-8-2012	0925	SK01	in progress	RDFT	Thu (Ellie)
5984	2-8-2012	2030	E06	724 724 724 716 716 15 15 64930 16374 98201 36472 73949 10374 29104 12849 10362 37281 37281 37283 39201 35267 37284 716 716 15 15 00000	AM	(Avare)
6250	4-8-2012	1922	XSL	Japanese Navy a.k.a. Slot Machine	QPSK 1500bd	(AB-HK)
6250	23-8-2012	2046	XSL	Japanese Slot Machine	QPSK 1500bd	Thu (Daunt)
6280	13-8-2012	0820	E11	unreadable	USB	Mon (Chief)
6280	27-8-2012	0820	E11	438/00	USB	Mon (HS2)
6379	24-8-2012	2147	M22	4XZ IDF/Israeli Navy Haifa VVV DE 4XZ 4XZ = =	CW	Fri (LG2)
6417	4-8-2012	1922	XSL	Japanese Navy a.k.a. Slot Machine	QPSK 1500bd	(AB-HK)
6445	4-8-2012	1922	XSL	Japanese Navy a.k.a. Slot Machine	QPSK 1500bd	(AB-HK)
6523	7-8-2012	1635	M03	798/00	CW	Tue (Daunt)
6524	28-8-2012	1535	M03	798/00	CW	Tue (HS2)
6586	28-8-2012	1820	M14	163 803 15 = 83920....	CW	Tue (HS2)
6607	24-8-2012	2202	M22	4XZ IDF/Israeli Navy Haifa = AN3S NR 84 SA GR 23 NU=	CW	Fri (LG2)
6666	28-8-2012	1500	S06s	537 841 6 78635 45312 80967 45326 56563 12111 841 6 00000	USB	Tue (HS2)
6765	2-8-2012	0029	M32	Tentative CIS Mil. DE P8VB K	CW	(LG2)
6773	17-8-2012	1035	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //8040	CW	Fri (JPL-HK)
6773	21-8-2012	1032	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	Tue (JPL-HK)
6773	23-8-2012	1043	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //8040	CW	Thu (JPL-HK)
6773	25-8-2012	1048	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //8040	CW	Sat (JPL-HK)
6773	25-8-2012	1112	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //8040	CW	Sat (JPL-HK)
6773	25-8-2012	1125	M89	Msg sent: 1955/220//20/08 AR. V H2FL (x3) DE DRV8 (x2) (Cont'd) //8040	CW	Sat (JPL-HK)
6773	25-8-2012	2210	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //8040	CW	Sat (JPL-HK)
6773	26-8-2012	1107	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //8040	CW	Sun (JPL-HK)
6773	26-8-2012	1127	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //8040	CW	Sun (JPL-HK)
6773	30-8-2012	1027	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	Thu (JPL-HK)
6780	5-8-2012	0700	M01	025-517/30=50#57	CW	Sun (HFD)
6783	25-8-2012	1935	S06	843 0	AM	Sat (HFD)
6783	25-8-2012	1935	S06	843 00000	AM	Sat (HS2)
6802	8-8-2012	1720	M12	463 1	CW	Wed (HFD)
6823	12-8-2012	0942	M51	FAV22 8éme Régiment de Transmission French training text	CW	Sun (LG2)

frequency	date	UTC	enigma	remarks	mode	day contributor
6823	23-8-2012	0952	M51	FAV22 8éme Régiment de Transmission LECON 24-1/4 VITESSE 840 CLAIR	CW	Thu (LG2)
6825	8-8-2012	1928	M51	FAV22: French CSTEI Via Favières 1928 CW NR 73 A 07 21:26:34 1984 BT JNOWK TVXWX ..."	CW	Wed (MPJ)
6825	13-8-2012	1235	M51	FAV22 8éme Régiment de Transmission FAV22 QLH 3881/6825 KHZ	CW	Mon (LG2)
6825	31-8-2012	1807	M51	FAV22: CSTEI Favières NR 57 S 28 20:07:52 1984 BT WRCKL YXGMM ...	CW	Fri
6840	1-8-2012	1520	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //4860	CW	(JPL-HK)
6840	1-8-2012	2020	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //4860	CW	(JPL-HK)
6840	11-8-2012	1920	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //4860	CW	Sat (JPL-HK)
6840	13-8-2012	1719	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //4860	CW	Mon (JPL-HK)
6840	16-8-2012	1420	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //4860	CW	Thu (JPL-HK)
6840	17-8-2012	1119	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //10640	CW	Fri (JPL-HK)
6840	19-8-2012	1620	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //4860	CW	Sun (JPL-HK)
6840	21-8-2012	1620	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //4860	CW	Tue (JPL-HK)
6840	21-8-2012	1920	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //4860	CW	Tue (JPL-HK)
6840	22-8-2012	1620	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //4860	CW	Wed (JPL-HK)
6840	23-8-2012	1120	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //10640	CW	Thu (JPL-HK)
6840	23-8-2012	1619	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //4860	CW	Thu (JPL-HK)
6840	23-8-2012	1919	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //4860	CW	Thu (JPL-HK)
6840	24-8-2012	1019	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //10640	CW	Fri (JPL-HK)
6840	25-8-2012	0320	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //10640	CW	Sat (JPL-HK)
6840	25-8-2012	1119	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //10640	CW	Sat (JPL-HK)
6840	25-8-2012	1219	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //10640	CW	Sat (JPL-HK)
6840	25-8-2012	1719	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //4860	CW	Sat (JPL-HK)
6840	25-8-2012	2020	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //4860	CW	Sat (JPL-HK)
6840	25-8-2012	2219	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //4860	CW	Sat (JPL-HK)
6840	26-8-2012	1121	M89	(In progress) VVV (x3) Q2M DE NYZ (x2) QSA? K //10640	CW	Sun (JPL-HK)
6840	26-8-2012	1620	M89	(In progress) VVV (x3) Q2M DE NYZ (x2) QSA? K //4860	CW	Sun (JPL-HK)
6840	27-8-2012	1320	M89	(In progress) VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	Mon (JPL-HK)
6840	27-8-2012	1520	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	Mon (JPL-HK)
6840	27-8-2012	1919	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	Mon (JPL-HK)
6840	28-8-2012	2020	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K	CW	Tue (JPL-HK)
6840	30-8-2012	0920	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //10640	CW	Thu (JPL-HK)
6840	30-8-2012	1020	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //10640	CW	Thu (JPL-HK)
6840	30-8-2012	1820	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	Thu (JPL-HK)
6840	30-8-2012	2120	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	Thu (JPL-HK)
6840	31-8-2012	1820	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	Fri (JPL-HK)
6851	30-8-2012	1555	M51	5L blocks	CW	Thu (ML4)
6852	15-8-2012	2214	M51	BT N37 A 15 23:06:42 1984 BT	CW	Wed (LG2)
6855.0	26-8-2012	0300	V02a	Heavy QRM, unable to copy.	AM	Sun (M11)
6858	1-8-2012	1010	VC01	Chinese Robot in progress	LSB	(AB-HK)
6904	6-8-2012	1740	M12	257 1 5FGs 000 000	CW	Mon (AB)
6904	6-8-2012	1840	M12	257 1	CW	Mon (HFD)
6904	6-8-2012	1940	M12	257 1	CW	Mon (HFD)
6916	4-8-2012	2000	S06	416 416 416 00000	AM	(HS2)
6917.5	31-8-2012	1820	MX	Beacon L: Skt Peterburg Irregular keying. //8497.8	CW	Fri (MPJ)
6917.5	31-8-2012	2103	MX	Beacon "L"	CW	Fri (AB)

frequency	date	UTC	enigma	remarks	mode	day contributor
6919	11-8-2012	2025	M51	in progress	CW	Sat (Chief)
6919	11-8-2012	2223	M51	FAV22: CSTEI Favières NR 89 A 0_ 00:27:39 1984 BT YZXFX ZDXTJ ...	CW	Sat (MPJ)
6923	1-8-2012	2120	M12	198 0	CW	Wed (HFD)
6948	27-8-2012	0759	G06	215 00000	AM	Mon (HS2)
6961	4-8-2012	1920	M23	111 111 111 //9886 kHz	CW	(FN)
6961	8-8-2012	1840	M23	111 repeating. Stopped at 19:43	CW	Wed (MPJ)
6961	8-8-2012	1922	M23	111 111 111. //9886 kHz	CW	Wed (MPJ)
6961	8-8-2012	1934	M23	111 111 111. Ends at 1943 UTC. //6961 kHz	CW	Wed (AB)
6961	9-8-2012	1922	M23	111 111 111 //9886 kHz	CW	Thu (AB)
6961	10-8-2012	1922	M23	111 111 111 //9886 kHz	CW	Fri (AB)
6961	10-8-2012	1922	M23	111 111 etc. Double space after every third 111 //9886 kHz	CW	Fri (MPJ)
6961.0	1-8-2012	1928	M23	111	USB	Wed (FMB)
6983	11-8-2012	1605	S06	134 134 134 00000	AM	Sat (Chief)
6983	11-8-2012	1605	S06	134 0	AM	Sat (HFD)
6984	6-8-2012	1905	S06	349 349 349 00000	AM	Mon (AB)
6984	13-8-2012	1905	S06	349 0	AM	Mon (HFD)
6984	20-8-2012	1905	S06	349 0	AM	Mon (HFD)
6985.0	13-8-2012	1908	S06	349 0	USB	Mon (FMB)
6999	26-8-2012	1538	---	Giving out the time like "Next Minute is 39". When it became 1539 UTC, it changed to "Next Minute is 40"	CW	Sun (Daunt)
7005	1-7-2012	1624	M32	Russian Mil. RGT77 A1A RGT77 150 = 5LGs = K	CW	(IARUMS)
7005	5-7-2012	1944	M32	RGT77 A1A RGT77 194 = (5BL) = K	CW	(IARUMS)
7005	6-7-2012	1709	M32	RGT77 A1A RGT77 716 = (5BL) = K	CW	(IARUMS)
7005	10-7-2012	1709	M32	RGT77 A1A RGT77 733 = (5BL) = K	CW	(IARUMS)
7005	20-7-2012	1709	M32	RGT77 A1A RGT77 526 = (5BL) = K	CW	(IARUMS)
7005	27-7-2012	1844	M32	RGT77 A1A RGT77 417 = (5BL) = K	CW	(IARUMS)
7005	28-7-2012	1709	M32	RGT77 A1A RGT77 573 = (5BL) = K	CW	(IARUMS)
7005	31-7-2012	1645	M32	Russian Mil. RGT77 A1A RGT77 482 = (5BL) = K	CW	(IARUMS)
7005	31-7-2012	1744	M32	RGT77 A1A RGT77 864 = (5BL) = K	CW	(IARUMS)
7016	23-8-2012	2006	---	??/00	USB	Thu (Daunt)
7027.5	9-8-2012	2003	MX	Beacon "V"	CW	Thu (AB)
7038.8	31-8-2012	2103	MX	Beacon "P"	CW	Fri (AB)
7038.9	8-8-2012	2003	MX	Beacon "S" S Russian Navy Severnomrsk 2003 CW 08/08/12 (LG)	CW	Wed (LG2)
7038.9	17-8-2012	2117	MX	Beacon "S"	CW	Fri (AB)
7039	17-8-2012	2117	MX	Beacon "C"	CW	Fri (AB)
7039.2	6-8-2012	1443	MX	Beacon "L"	CW	Mon (AB)
7039.2	17-8-2012	2117	MX	Beacon "L"	CW	Fri (AB)
7039.2	31-8-2012	2103	MX	Beacon "L"	CW	Fri (AB)
7041.8	20-7-2012	1928	MX	Beacon "L"	CW	(IARUMS)
7164	17-7-2012	2012	M32	Russian Mil. "QRW 22 ZCT ZBD ZFA QSW 1K. ZCT ZBD ZFA QSU 1K	CW	(IARUMS)
7166	9-8-2012	2049	M21	PVO. =99?0035?9?????	CW	Thu (AB)
7437	9-8-2012	0430	E07a	411 0	AM	Thu (HFD)
7473	1-8-2012	2020	E07a	147 0	AM	Wed (HFD)
7553	30-8-2012	0946	M89	In tfc - Msg 3534 t744 64d6 3D3N 3N. SG MA NR 968 CK 9. 3508 3007 03 BT	CW	Thu (JPL-HK)
7582	17-8-2012	0230	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW	Fri (JPL-HK)
7582	19-8-2012	2352	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	Sun (JPL-HK)

frequency	date	UTC	enigma	remarks	mode	day	contributor
7582	30-8-2012	0915	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW	Thu	(JPL-HK)
7602	17-8-2012	1651	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	Fri	(JPL-HK)
7607	1-8-2012	1526	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW		(JPL-HK)
7607	1-8-2012	2011	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW		(JPL-HK)
7607	11-8-2012	1855	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	Sat	(JPL-HK)
7607	13-8-2012	1709	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	Mon	(JPL-HK)
7607	16-8-2012	1405	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	Thu	(JPL-HK)
7607	16-8-2012	2151	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	Thu	(JPL-HK)
7607	17-8-2012	1353	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	Fri	(JPL-HK)
7607	17-8-2012	1647	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	Fri	(JPL-HK)
7607	19-8-2012	1602	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	Sun	(JPL-HK)
7607	21-8-2012	1558	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	Tue	(JPL-HK)
7607	21-8-2012	1912	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	Tue	(JPL-HK)
7607	22-8-2012	1614	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	Wed	(JPL-HK)
7607	23-8-2012	1627	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	Thu	(JPL-HK)
7607	23-8-2012	1915	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	Thu	(JPL-HK)
7607	24-8-2012	1830	M89	v WITN WITN WITN de GNXG GNXG	CW	Fri	(FN)
7607	25-8-2012	1109	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	Sat	(JPL-HK)
7607	25-8-2012	1701	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	Sat	(JPL-HK)
7607	25-8-2012	2028	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	Sat	(JPL-HK)
7607	25-8-2012	2206	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	Sat	(JPL-HK)
7607	26-8-2012	1129	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	Sun	(JPL-HK)
7607	26-8-2012	1531	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	Sun	(JPL-HK)
7607	26-8-2012	1607	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	Sun	(JPL-HK)
7607	26-8-2012	1830	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	Sun	(JPL-HK)
7607	26-8-2012	1931	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	Sun	(JPL-HK)
7607	27-8-2012	1140	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	Mon	(JPL-HK)
7607	27-8-2012	1300	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	Mon	(JPL-HK)
7607	27-8-2012	1505	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	Mon	(JPL-HK)
7607	27-8-2012	1918	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	Mon	(JPL-HK)
7607	28-8-2012	2025	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	Tue	(JPL-HK)
7607	29-8-2012	1246	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	Wed	(JPL-HK)
7607	30-8-2012	1059	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	Thu	(JPL-HK)
7607	30-8-2012	1346	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	Thu	(JPL-HK)
7607	30-8-2012	1828	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	Thu	(JPL-HK)
7607	30-8-2012	2108	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	Thu	(JPL-HK)
7607	30-8-2012	2246	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	Thu	(JPL-HK)
7607	31-8-2012	1153	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	Fri	(JPL-HK)
7607	31-8-2012	1248	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	Fri	(JPL-HK)
7607	31-8-2012	1432	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	Fri	(JPL-HK)
7607	31-8-2012	1542	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	Fri	(JPL-HK)
7607	31-8-2012	1816	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	Fri	(JPL-HK)
7607	31-8-2012	2158	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	Fri	(JPL-HK)
7615	14-8-2012	1943	M32a	RIT: Russian Navy ral68 de rit zbd k	CW	Tue	(WP3)
7615	14-8-2012	1943	M32a	RAL68: Russian Navy rit de ral68	CW	Tue	(WP3)
7627.0	17-8-2012	1732	M51	ip	CW	Fri	(FMB)
7637	16-8-2012	2050	E07	716 1	AM	Thu	(HFD)
7674	16-8-2012	0650	M32	XXX XXX RGT77 RGT77 92148 AMILBA OMIS 2196 3967 K	CW	Thu	(BCI)
7696	30-3-2011	1840	M42a	Callup in CW: 3K 3K 3K and lots of V's followed in AM voice: 1141 1141 55655 (voice drops on the fig	CW + AM		

frequency	date	UTC	enigma	remarks	mode	day contributor
				6), ends 00000		
7697	8-11-2008	1152	M42a	"VVV VVV VVV NW Ä 26010 Ä 09857 Ä 54586 K. K. Ä Ä K"	CW	(MPJ)
7714	17-8-2012	0522	XPA2	02649 00107 42046 93295...	MFSK	Fri (HS2)
7744	28-8-2012	1510	S06s	537 841 6 78635 45312 80967 45326 56563 12111 841 6 00000	USB	Tue (HS2)
7795	17-8-2012	2227	M32	Russian Mil	CW	Fri (BCI)
7817	16-8-2012	0658	M32	XXX XXX OEUN OEUN 17170 INWERTOR 011Z 6473 K T	CW	Thu (BCI)
7824.0	20-8-2012	1824	M51	ip	CW	Mon (FMB)
7824.0	27-8-2012	1708	M51	ip	CW	Mon (FMB)
7837	23-8-2012	1320	M03	437/00	CW	Thu (AB)
7837	26-8-2012	1320	M03	437/00	CW	Sun (HS2)
7837	30-8-2012	1115	M03	650/00 = = 000	CW	Thu (AB)
7842	16-8-2012	0845	M51	BT 09 :46:28 1984 BT	CW	Thu (LG2)
7847	4-8-2012	1900	S06	416 416 416 00000	AM	(HS2)
7884	11-8-2012	1930	S06	134 134 134 00000	AM	Sat (Chief)
7931	6-8-2012	1720	M12	257 1 5FGs 000 000	CW	Mon (AB)
7931	6-8-2012	1820	M12	257 1	CW	Mon (HFD)
7931	6-8-2012	1920	M12	257 1	CW	Mon (HFD)
7964	28-8-2012	2312	M32a	RMP Russian Navy HQ Kaliningrad 5LGs	CW	Tue (LG2)
7965.0	20-8-2012	1824	M51	ip	CW	Mon (FMB)
7965.0	29-8-2012	0530	M51	ip	CW	Wed (FMB)
7966.0	13-8-2012	1537	M51	ip	CW	Mon (FMB)
7982	16-8-2012	1900	S06	349 0	AM	Thu (HFD)
7982	27-8-2012	1900	S06	349 0	AM	Mon (HFD)
8016.0	29-8-2012	0530	M51	ip	CW	Wed (FMB)
8040	17-8-2012	1035	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //6773	CW	Fri (JPL-HK)
8040	23-8-2012	1043	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //6773	CW	Thu (JPL-HK)
8040	24-8-2012	1031	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	Fri (JPL-HK)
8040	25-8-2012	1048	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //6773	CW	Sat (JPL-HK)
8040	25-8-2012	1112	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //6773	CW	Sat (JPL-HK)
8040	25-8-2012	1125	M89	Msg sent: 1955/220//20/08 AR. V H2FL (x3) DE DRV8 (x2) (Cont'd) //6773	CW	Sat (JPL-HK)
8040	25-8-2012	2210	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //6773	CW	Sat (JPL-HK)
8040	26-8-2012	1107	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //6773	CW	Sun (JPL-HK)
8040	26-8-2012	1127	M89	V H2FL (x3) DE DRV8 (x2) (Cont'd) //6773	CW	Sun (JPL-HK)
8047	8-8-2012	1700	M12	463 1	CW	Wed (HFD)
8094.0	23-8-2012	1546	M51	ip	CW	Thu (FMB)
8102	14-8-2012	2000	E11c	757/2100/00	USB	Tue (DLBB)
8102	22-8-2012	2000	E11c	757/1100/00	USB	Wed (AB)
8102	28-8-2012	2000	E11c	757/2100/00	USB	Tue (HS2)
8104	23-8-2012	1813	M42	Russian Gov. "DOBV DE KRUG QSA NO QSY 8249T" (back to 8193 kHz)	CW	Thu (PPA)
8107	31-3-2008	0625	M42a	QSA NO NW Ä 93479 Ä 00140 Ä 373 66 KK	CW	(MPJ)
8107	31-3-2011		M42a	Russian HFDF tracking & intercept net, probably a western chain station with short control routine reply to NCS "Gudok", mil unit 34608, GRU tactical coordination centre Podolsk / Klimovsk; "3k", several A1A short blocks of crypto tracking data; "75985 ä 96578k ä ä ä k "3k" at hh:08 and hh:38 short F1B/150 databursts.	CW + F1B/150	(TJ)

frequency	date	UTC	enigma	remarks	mode	day contributor
8109	21-8-2012	0629	M32	Russian Mil. 5LG message after RGT77 RGT77 = 776 = SUUD	CW	Tue (PPA)
8110	17-8-2012	0230	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW	Fri (JPL-HK)
8110	25-8-2012	0302	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	Sat (JPL-HK)
8110	30-8-2012	0915	M89	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW	Thu (JPL-HK)
8116	7-8-2012	1910	M12	124 1	CW	Tue (HFD)
8116	17-8-2012	1840	M12	124 1 3168 88 35915 56697 ... 82964	CW	Fri (HS2)
8116	21-8-2012	0701	M32	PRAT: CIS mil. "LKDW DE PRAT QSA NO QSY 73816"	CW	Tue (PPA)
8116	24-8-2012	1846	M12	5FG message in progress ending TTT TTT	CW	Fri (PPA)
8116	31-8-2012	1910	M12	124 1 7074 73 68916	CW	Fri (FN)
8123	1-8-2012	2100	M12	198 0	CW	Wed (HFD)
8123	1-8-2012	2204	M12	198 198 198 000	CW	(LG2)
8137	9-8-2012	0450	E07a	411 0	AM	Thu (HFD)
8137	21-8-2012	1929	M32a	RCJD: Russian navy ship "RIT DE RCJD QSA ?"	CW	Tue (PPA)
8138	7-8-2012	2011	M32	E1K9: Russian Mil. E1K9 R K.	CW	Tue (MPJ)
8138	7-8-2012	2032	M32	X26J de E1K9 K (x5) then msg: E1K9 318 25 8 0030 318 FM 389 158 FOR 249 399 720 = DÜSDT MWJFA ... ELFÄS PIPWÄ RPT AL QLN K. OK AS K.	CW	Tue (MPJ)
8138	7-8-2012	2102	M32	E1K9: Russian Mil. Msg to LTIK	CW	Tue (MPJ)
8143.0	16-8-2012	1910	M42	Russian Gov/Intel.	Baudot 200/ 500	Thu (FMB)
8173	1-8-2012	2000	E07a	147 0	AM	Wed (HFD)
8173	15-8-2012	2000	E07	147 147 147 000	AM	Wed (AB)
8183	21-8-2012	0558	---	Unid. Call up 997 997 015 015 into 15 5FG message ending 997 997 015 565 55550	CW	Tue (PPA)
8193	23-8-2012	1806	M42	Russian Gov. "DOBV DE KRUG QDD QSA1 QSY 82382" (8104 kHz)	CW	Thu (PPA)
8313	4-8-2012	1922	XSL	Japanese Navy a.k.a. Slot Machine	QPSK 1500bd	(AB-HK)
8313	11-8-2012	1930	XSL	Japanese slot machine	QPSK 1500bd	Sat (DLBB)
8345	6-8-2012	1210	M32a	RBES: Russian Navy Ship (Sliva, SB-921?) qtc to rmp rbes 847 15 4 1600 847 = sml for rjd38 rjh45 = 04121 99546 10111 43598 71103 10220 40130 57030 70311 876// 22233 04011 = + rbes k	CW	Mon (WP3)
8345	6-8-2012	1815	M32a	RKO81: Russian Navy Ship Lena qtc to rmp rko81 998 20 4 2200 998 = for rjd38 rjh45 rjh74 = 04181 99548 10129 41598 31406 10210 40113 57002 70112 83331 22213 00160 29901 30000 88000 80000 04016 = + rko81 k	CW	Mon (WP3)
8345	14-8-2012	0010	M32a	RJP30: Russian Navy qtc to RIT rjp30 166 16 15 0404 166 = for rmsz rjh74 15001 99723 10739 41587 63504 14050 40025 52015 70222 8482/ 22200 41086 20401 15013 = + rjp30 k	CW	Tue (WP3)
8345	14-8-2012	2106	M32a	RJP30: Russian navy qtc to RIT rjp30 243 16 14 0414 243 = for rmsz rjh74 = 14001 99748 10689 41598 13404 10080 40025 57005 70121 84540 22222 00077 20301 14013 = + rjp30 k	CW	Tue (WP3)
8345	19-8-2012	2035	M32a	RAL68: Russian Navy qtc to RIT ral68 112 10 20 0015 112 = for rjh74 = 19201 99723 10749 41396 72308 20005 47471 54015 22200 20009 = + ral68 k	CW	Sun (WP3)
8345	19-8-2012	2102	M32a	RBES: Russian Navy (Sliva, SB-921) qtc to RMP rbes 439 15 10 0100 439 = sml for rjd38 rjh45 = 19211 99551 10057 43998 10706 1020040150 57030 70100 81001 22252 20011 = + rbes k	CW	Sun (WP3)
8345	19-8-2012	2115	M32a	RJP30: Russian Navy qtc to RIT rjp30 325 16 20 0105 305 = for rmsz rjh74 = 1921199725 20743 41497	CW	Sun (WP3)

frequency	date	UTC	enigma	remarks	mode	day contributor
				72610 10050 49975 57005 70252 84260 22251 00082 20302 20013 = + rjp30		
8345	31-8-2012	0612	M32a	RBES: Russian navy vessel "qtc to rmp rbes 232 16 31 1007 232 = sml for rjh45 rjd38 rjh74 = 31061 99461 70100 43998 40209 10200 40260 54000 70200 84220 22242 31011 = + rbes k"	CW	Fri (WP3)
8345	31-8-2012	0625	M32a	RKB91: Russian Navy clg RMP rkb91 888 16 29 1000 888 = sml for rjh45 rjd38 = 31061 99497 70008 41798 23610 10110 40890 54040 70202 8//// 22200 00150 31012 = + rkb91 k	CW	Fri (WP3)
8487.8	6-8-2012	1443	MX	Beacon "L"	CW	Mon (AB)
8494.7	22-8-2012	1835	MX	Beacon "D"	CW	Wed (AB)
8494.9	22-8-2012	1835	MX	Beacon "S"	CW	Wed (AB)
8495	9-8-2012	1518	MX	Beacon "C"	CW	Thu (AB)
8495	17-8-2012	2117	MX	Beacon "C"	CW	Fri (AB)
8495	22-8-2012	1835	MX	Beacon "C"	CW	Wed (AB)
8495.3	9-8-2012	1518	MX	Beacon "K"	CW	Thu (AB)
8495.4	9-8-2012	1518	MX	Beacon "M"	CW	Thu (AB)
8497.8	2-8-2012	1749	MX	Beacon Ldash: Skt Peterburg	CW	(MPJ)
8497.8	9-8-2012	1518	MX	Beacon "L"	CW	Thu (AB)
8497.8	12-8-2012	1842	MX	Beacon L: Sankt Peterburg	CW	Sun (MPJ)
8497.8	13-8-2012	2206	MX	Beacon "L"	CW	Mon (LG2)
8497.8	22-8-2012	1835	MX	Beacon "L"	CW	Wed (AB)
8497.8	28-8-2012	2008	MX	Beacon "L"	CW	Tue (BCI)
8497.8	31-8-2012	1820	MX	Beacon L: Skt Peterburg	CW	Fri (MPJ)
8497.8	31-8-2012	2103	MX	Beacon "L"	CW	Fri (AB)
8498	15-8-2012	2240	MX	Beacon "L"	CW	Wed (BCI)
8530	24-8-2012	0915	S11a	486/32 Vnimanie 98618 95092 05120 21766 53215 10170 58606 69786 38597 78925 85703 56277 16679 70938 58552 37286 62661 17255 66831 16262 71776 28781 18382 81808 16190 66005 95715 21763 87655 38339 38666 68219 Vnimanie, rpt msg, konet	USB	Fri (AB)
8588	4-8-2012	1922	XSL	Japanese Navy a.k.a. Slot Machine	QPSK 1500bd	(AB-HK)
8703.5	4-8-2012	1922	XSL	Japanese Navy a.k.a. Slot Machine	QPSK 1500bd	(AB-HK)
8789	17-8-2012	1029	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //10779	CW	Fri (JPL-HK)
8789	17-8-2012	1125	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //10779	CW	Fri (JPL-HK)
8789	20-8-2012	1143	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //10779	CW	Mon (JPL-HK)
8789	21-8-2012	1028	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //10779	CW	Tue (JPL-HK)
8789	22-8-2012	2318	M89	V WITN WITN WITN DE GNXG GNXG	CW	Wed (BCI)
8789	24-8-2012	1027	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //10779	CW	Fri (JPL-HK)
8789	25-8-2012	1044	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //10779	CW	Sat (JPL-HK)
8789	30-8-2012	0917	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //10779	CW	Thu (JPL-HK)
8789	30-8-2012	1034	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //10779	CW	Thu (JPL-HK)
8789	30-8-2012	2255	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //10779	CW	Thu (JPL-HK)
8816	1-8-2012	0635	M32b	42003: Russian Naval Air Transport rcb rjf94 de 42003 qto 0625 qrd XLLV XMWB qah 6400 qbd 0500	CW	(WP3)
8816	1-8-2012	0641	M32b	42004: Russian Naval Air Transport RUS 0641 rcb rjf94 de 42004 qay UUBT 0640 qah 5800 qbd 0400	CW	(WP3)
8816	1-8-2012	1545	M32b	42003: Russian Naval Air Transport RUS 1545 rcb rjf94 de 42003 qto 1543 qrd XMWB XLLV qah 5100 qbd 0500 k	CW	(WP3)

frequency	date	UTC	enigma	remarks	mode	day contributor
8816	1-8-2012	1620	M32b	09369: Russian Naval Air Transport RUS 1620 CW rjc38 rjf94 de 09369 qto 1613 qrd XLLV XLWF qre 1740 qbd 17400	CW	(WP3)
8816	9-8-2012	0659	M32b	09369: Russian Naval Air Transport qtc to rjf94 rjc38 09369 qth 6456 3429 qtr 0657 qbg 7000 k	CW	Thu (WP3)
8816	9-8-2012	0920	M32b	65317: Russian Naval Air Transport qtc to rcb rjf94 65317 qto 0908 qrd XLLV XMWB qah 8200 qbd 0500	CW	Thu (WP3)
8816	13-8-2012	----	M32b	75222: Russian Naval Air Transport qso rjc38 qsa3 k	CW	Mon (WP3)
8816	13-8-2012	0658	M32b	09369: Russian Naval Air Transport qtc to rjf94 rjc38 09369 qth 6507 3914 qtr 0656 qbg 6400 k - qqm XLAA 0722 sk	CW	Mon (WP3)
8816	13-8-2012	0703	M32b	52255: Russian Naval Air Transport tfc to rjf94 rjc38 52255 qto 0700 qrd XLLV XLMV qbd 4800 qre 1000 k - qql ULPE 0805 qbg 5800 - qth 6112 3224 qtr 0905 qre XLLV 0952 k - qqm XLLV 0955 sk	CW	Mon (WP3)
8816	13-8-2012	0847	M32b	09369: Russian Naval Air Transport qtc to rjf94 rjc38 09369 qto 0825 qrd XLMV XLAA qre 0953 qbd 10000 k - qth 6729 3609 qtr 0915 qbd 3600 k	CW	Mon (WP3)
8816	13-8-2012	1110	M32b	52255: Russian Naval Air Transport tfc to rjf94 rjc38 52255 qto 1100 qrd XLMV XLLV qbd 4800 qre 1400 k - qth 6153 3405 qtr 1205 qbg 5800 - qql ULPE 1300 qbd 3500 k - qql XLMF 1344 qre XLMV 1420 k - qqm XLMV 1415 sk	CW	Mon (WP3)
8816	13-8-2012	1315	M32b	42003: Russian Naval Air Transport qtc to rcb rjf94 42003 qto 1308 qrd XLLP XMWB qre 1605 qah 5800 qbd 4400 k - qay EVRR 1352 qah 5800 qbd 3600 k - qay EETT 1452 qal XLLP 1600 qah 5800 qbd 2800 k - qqm XLLP 1553 sk	CW	Mon (WP3)
8816	13-8-2012	1710	M32b	42003: Russian Naval Air Transport qtc to rcb rjf94 42003 qto 1701 qrd XMWB XLLP qre 1940 qah 5500 qbd 4400 k - qay EETT 1758 qah 5500 qbd 3800 k	CW	Mon (WP3)
8816	14-8-2012	1710	M32b	52255: Russian Naval Air Transport qtc to rjc38 rjf94 52255 qth 6644 3521 qtr 1705 qre XLMV 1750 k - qqm XLMV 1803 sk	CW	Tue (WP3)
8816	17-8-2012	----	M32b	RJC38: Russian Naval Air Transport Murmansk re- gion rjf94 de rjc38 pse rpt fm 52555 ...	CW	Fri (WP3)
8816	17-8-2012	----	M32b	RJF94: Russian Naval Air Transport Moscow rpt fm 52555 qql ULPE	CW	Fri (WP3)
8816	17-8-2012	0637	M32b	52255: Russian Naval Air Transport qtc to rjc38 rjf94 52255 qql XLMF 0630 qbg 5800 k - qql ULPE 0715	CW	Fri (WP3)
8816	17-8-2012	1008	M32b	52255: Russian Naval Air Transport qtc to rjc38 rjf94 52255 qto 1000 qrd XLLV XLWF qre 1155 qbd 5400	CW	Fri (WP3)
8816	17-8-2012	1412	M32b	52255: Russian Naval Air Transport qtc to rjc38 rjf94 52255 qto 1407 qrd XLMV XLLV qre 1655 qbd 5300	CW	Fri (WP3)
8816	17-8-2012	1422	M32b	52234: Russian Naval Air Transport qtc to rjf94 rcb 52234 qto 1405 qrd XLOS XUMO qah 5500 qbd 0500 k	CW	Fri (WP3)
8816	20-8-2012	1000	M32b	65317: Russian Naval Air Transport qtc to rjf94 rjc38 rcb 65317 qth 6003 2659 qtr 0955 qah 8200 qbd 0400 k	CW	Mon (WP3)
8816	20-8-2012	1130	M32b	52246: Russian Naval Air Transport qtc to rjf94 rjc38 52246 qto 1120 qrd XLLP XWF qre 1400 qbd 5200 k	CW	Mon (WP3)

frequency	date	UTC	enigma	remarks	mode	day contributor
8816	20-8-2012	1320	M32b	65317: Russian Naval Air Transport qtc to rjf94 rjc38 rcb 65317 qto 1315 qrd XUMU XLMV qah 8200 qbd 0500 k	CW	Mon (WP3)
8816	20-8-2012	1500	M32b	52246: Russian Naval Air Transport qtc to rjf94 rjc38 52246 qto 1452 qrd XLMV XLLP qre 1800 qbd 5000 k -	CW	Mon (WP3)
8816	24-8-2012	0735	M32a	65317: Russian Naval Air Transport (Tupolev-134) qtc to rcb rjf94 65317 qto 0718 qrd XUMU XRKA qah 8200 qbd 0500 k - qay UUOO 0832 qah 8500 qal XUMU 0930 qbd 0400 k - qqm XUMU 0934 sk	CW	Fri (WP3)
8816	24-8-2012	1009	M32a	52255: Russian Naval Air Transport (Antonov AN- 26) qtc to rjf94 rjc38 52255 qto 1000 qrd XLLV YLWF qbd 5200 qre 1150 k - qth 5941 3410 qtr 1055 qre XLLV 1145 k - qqm XLLV 1145 sk	CW	Fri (WP3)
8816	31-8-2012	0621	M32b	09369: Russian Naval Air Transport qtc to rjc38 rjf94 09369 qto 0609 qrd XLWF XLMV qre 0835 qbd 13800 - qay ULPE 0707 qbg 6400 - qth 6116 3700 qtr 0748 qre XLWF 0820 - qqm XLWF 0816 sk	CW	Fri (WP3)
8816	31-8-2012	0740	M32b	52246: Russian Naval Air Transport qtc to rjf94 rjc38 52246 qto 0735 qrd XLAA XLMV qbd 4800 qre 0825 - qth 6626 3616 qtr 0840 qre XLAA 0929	CW	Fri (WP3)
8816	31-8-2012	0815	M32b	52246: Russian Naval Air Transport qtc to rjf94 rjc38 52246 qto 0800 qrd XLWF XLMV qbd 5000 qre 1100 k - qth 5622(?) 3324 qtr 0851 qbg 5800 k - qay XLPB 0955 qre XLWF 1053 k - qqm XLWF 1054 sk	CW	Fri (WP3)
8817	5-8-2012	1230	MC03	High speed Morse. NR UNN3 33N5 UT3T. NR 303N DU75 UT3T. NR 3044 3DN5 UT3T	CW	Sun (AB-HK)
9052.0	17-8-2012	0720	M42	Russian Intel.	FSK 200/1000	Fri (FMB)
9073.0	6-8-2012	1746	M14	(ip) == 764 764 297 297 ttttt	CW	Mon (FMB)
9088	26-3-2008	1855	M42a	... ä 031 ä 77391 K. ää K. äääää 667 ä 63708 K. ä K ...	CW	(MPJ)
9115.0	29-8-2012	0620	XPA2		MFSK	Wed (FMB)
9124	19-8-2012	0556	SK01	RDFT Tx, severe QRM	RDFT	Sun (KC2TTK)
9124	19-8-2012	0634	SK01	IP, background noise didn't sound normal.	RDFT	Sun (KC2TTK)
9124	26-8-2012	0626	SK01	RDFT Tx; 0627 off air	RDFT	Sun (KC2TTK)
9125	17-8-2012	0610	S06s	167 874 5 67423 89674 13214 56434 76849	USB	Fri (HS2)
9140	14-8-2012	0552	M42	Russian Gov/Intel.	RUS-ARQ 100/1000	Tue (BCI)
9147	16-8-2012	2030	E07	716 1 tx breaks	CW	Thu (HFD)
9150	10-8-2012	2000	E11	576/00	USB	Fri (Chief)
9164.0	17-8-2012	1035	M42	Russian Gov/Intel.	Baudot 200/ 500	Fri (FMB)
9176	6-8-2012	1700	M12	257 1 5FGs 000 000	CW	Mon (AB)
9176	6-8-2012	1800	M12	257 1 5FGs 000 000	CW	Mon (AB)
9176	6-8-2012	1800	M12	257 1	CW	Mon (HFD)
9176	6-8-2012	1900	M12	257 1	CW	Mon (HFD)
9188.0	7-8-2012	2110	M42	Russian Intel.	FSK 200/1000	Tue (FMB)
9205.0	4-8-2012	0547	M51	ip	CW	Sat (FMB)
9206.0	16-8-2012	1908	M51	ip	CW	Thu (FMB)
9206.0	17-8-2012	0536	M51	ip	CW	Fri (FMB)
9207.0	10-8-2012	0527	M51	ip	CW	Fri (FMB)
9217.0	1-8-2012	0020	XPA2		MFSK	Wed (FMB)
9218	31-8-2012	0959	M23?	579 repeating until 10:04 then long dash and off- air.	CW	Fri (MPJ)
9240	14-8-2012	0624	M42	Russian Gov/Intel.	RUS-ARQ 100/1000	Tue (BCI)

frequency	date	UTC	enigma	remarks	mode	day contributor
9240	15-8-2012	1000	V02a	Atencion ????? 06111 ????? LG ?????	AM	Wed (Dan)
9240	22-8-2012	1017	V02a	DGI in progress	AM	Wed (EW)
9264	2-8-2012	1820	M12	124 0	CW	Thu (HFD)
9264	7-8-2012	1850	M12	124 1	CW	Tue (HFD)
9264	10-8-2012	0902	M42	Russian diplo	CROWD-36	Fri (LG2)
9264	31-8-2012	1850	M12	124 1 7074 73 68916	CW	Fri (FN)
9276	4-8-2012	0712	V13	New Star in progress	USB	(AB-HK)
9276	5-8-2012	0700	V13	New Star #3. Flute intro + code messages	USB	Sun (AB-HK)
9276	12-8-2012	0800	V13	New Star #3. Flute intro followed by coded messages	USB	Sun (AB-HK)
9276	19-8-2012	0724	V13	New Star in progress	USB	Sun (BA-HK)
9276	24-8-2012	0800	V13	New Star #3. Music + messages	USB	Fri (AB-HK)
9276	30-8-2012	0700	V13	New Star #3. Tune + messages	USB	Thu (AB-HK)
9276	30-8-2012	0800	V13	New Star #3. Tune + messages	USB	Thu (AB-HK)
9300	14-8-2012	0559	M42	Russian Gov/Intel.	FSK 50/500	Tue (BCI)
9327	8-8-2012	1910	M12	938 1	CW	Wed (HFD)
9327	15-8-2012	2012	M12	938 1 5FGs	CW	Wed (Daunt)
9327	22-8-2012	1910	M12	938 1 5FGs	CW	Wed (AB)
9387	7-8-2012	1810	XPA	msg	MFSK	Tue (HFD)
9399	17-8-2012	0500	XPA2	02649 00107 42046 93295...	MFSK	Fri (HS2)
9450	16-8-2012	1243	E25	YL. 440 5180 5080 5240 9727 4818 3961 4808 5240	AM	Thu (MG)
9450	16-8-2012	1317	E25	YL (slow). 780 9351 1070 9240 9145 9393 1034 3732	AM	Thu (MG)
9450	27-8-2012	1315	E25	Tone 780..MSG..RBT..EOM EOT	AM	Mon (FN)
9450	27-8-2012	1318	E25	780 3292 2051 9120 1814 6385 6617 9330 8673 6716 0536 7455 3795 7410 3976 9120, tone, EOM	AM	Mon (MG)
9610	1-8-2012	1045	E11	469/00	USB	(AB)
9610	29-8-2012	1045	E11a	463/36 A 98857 36669 73882	USB	Wed (HS2)
9655	24-8-2012	0940	S06s	516 893 7 08527 79200 05507 82616 32447 54139 71689 893 7 00000	USB	Fri (AB)
9886	5-8-2012	1940	M23	111 111 111. Ends at 1943 UTC. //6961 kHz	CW	Sun (MAUK)
9886	6-8-2012	1922	M23	111 111 111. Ends at 1942 UTC. //6961 kHz	CW	Mon (MAUK)
9886	7-8-2012	1916	M23	111 111 111. Ends at 1942 UTC. //6961 kHz	CW	Tue (TJ)
9886	8-8-2012	1922	M23	111 111 111. //9886 kHz	CW	Wed (TJ)
9886	8-8-2012	1931	M23	111 111 111. Ends at 1943 UTC. //6961 kHz	CW	Wed (AB)
9886	9-8-2012	1922	M23	111 111 111 //6961 kHz	CW	Thu (AB)
9886	10-8-2012	1922	M23	111 111 111 //6961 kHz	CW	Fri (AB)
9886.0	8-8-2012	1928	M23	111 (1928-1942)	CW	Wed (FMB)
9914.0	29-8-2012	0610	XPA2		MFSK	Wed (FMB)
10115.5	14-8-2012	0130	M51	NR 37A 1407 715723 1984 BT	CW	Tue (Jerry)
10155.0	29-8-2012	0602	XPA2		MFSK	Wed (FMB)
10180	17-8-2012	1032	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	Fri (JPL-HK)
10180	17-8-2012	1127	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	Fri (JPL-HK)
10180	20-8-2012	1145	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	Mon (JPL-HK)
10180	21-8-2012	1030	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	Tue (JPL-HK)
10180	23-8-2012	1126	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	Thu (JPL-HK)
10180	25-8-2012	1046	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	Sat (JPL-HK)
10180	25-8-2012	1136	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	Sat (JPL-HK)
10180	26-8-2012	1105	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	Sun (JPL-HK)
10180	26-8-2012	1132	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	Sun (JPL-HK)
10180	27-8-2012	1142	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	Mon (JPL-HK)
10180	27-8-2012	1304	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	Mon (JPL-HK)

frequency	date	UTC	enigma	remarks	mode	day contributor
10180	27-8-2012	1311	M89	CK 199 19 0827 2.. RMKS CQ BT BT 6AND 4NA 4T7U UNT... (Cont'd) AR V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	Mon (JPL-HK)
10180	29-8-2012	1250	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	Wed (JPL-HK)
10180	30-8-2012	1025	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	Thu (JPL-HK)
10180	30-8-2012	1351	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	Thu (JPL-HK)
10180	31-8-2012	1252	M89	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	Fri (JPL-HK)
10231.0	6-8-2012	1736	M51	ip	CW	Mon (FMB)
10233.0	17-8-2012	0625	M01c	(ip) 88158 6t921 = 838 3t =; 111 ttt	CW	Fri (FMB)
10276	1-1-2012	0956	M42a	"K" answer of "VVV" series on 10 0 kHz	CW	
10290	24-8-2012	0930	S06s	516 893 7 08527 79200 05507 82616 32447 54139 71689 893 7 00000	USB	Fri (AB)
10306	1-1-2012	0955	M42a	"VVV VVV" answered on 10 7 kHz with "K"	CW	
10312.0	19-8-2012	1822	M51	ip	CW	Sun (FMB)
10313	2-8-2012	1817	M51	FAV22: CSTEI Favières/Vernon 1817 CW BT NR 16 A 02 20:07:34 1984 BT ... JXIVW VHPEV ...	CW	(MPJ)
10313.0	2-8-2012	1602	M51	ip	CW	Thu (FMB)
10314.0	16-8-2012	1630	M51	ip	CW	Thu (FMB)
10343	2-8-2012	1800	M12	124 0	CW	Thu (HFD)
10343	7-8-2012	1830	M12	124 1	CW	Tue (HFD)
10343	28-8-2012	1830	M12	124 1 1708 54 41253 15237....	CW	Tue (HS2)
10343	31-8-2012	1800	M12	124 1 7074 73 68916	CW	Fri (FN)
10369.0	17-8-2012	0620	M42	Russian Intel.	FSK 200/1000	Fri (FMB)
10372	27-8-2012	0937	X06	Mazielka. Sequence: 431625	USB	Mon (HS2)
10375	16-8-2012	1501	M97	SD74 SN65 in progress	CW	Thu (AB-CA)
10436	8-8-2011	0341	M42a	"VVV VVV VVV 3K"	CW	
10436	18-10-2011	0645	M42a	Traffic. Mode: F1B 81-81/500 end of message, short F1A/500 FSK op-chat and off air, later short control routines using A1A; "VVV 3K" / "3K"	FSK/F1B/CW	
10436	18-10-2011	0657	M42a	Traffic. Mode: F1B 81-81/500 end of message, short F1A/500 FSK op-chat and off air, later short control routines using A1A; "VVV 3K" / "3K"	FSK/F1B/CW	
10436	18-10-2011	0845	M42a	Traffic. Mode: F1B 81-81/500 end of message, short F1A/500 FSK op-chat and off air, later short control routines using A1A; "VVV 3K" / "3K"	FSK/F1B/CW	
10436	18-10-2011	1002	M42a	Traffic. Mode: F1B 81-81/500 end of message, short F1A/500 FSK op-chat and off air, later short control routines using A1A; "VVV 3K" / "3K"	FSK/F1B/CW	
10436	18-10-2011	1015	M42a	Traffic. Mode: F1B 81-81/500 end of message, short F1A/500 FSK op-chat and off air, later short control routines using A1A; "VVV 3K" / "3K"	FSK/F1B/CW	
10436	18-10-2011	1031	M42a	Traffic. Mode: F1B 81-81/500 end of message, short F1A/500 FSK op-chat and off air, later short control routines using A1A; "VVV 3K" / "3K"	FSK/F1B/CW	
10436	27-7-2012	2017	M42	Russian Intel/Mil. Tentative GRU HFDF net "vvv vvv vvv 3k"	CW	(PPA)
10460	14-8-2012	0841	M32	Russian Mil. USB tfc with spasibo prijom	USB	Tue (WP3)
10479	27-7-2012	1953	M51	French mil Favieres 5L message after bt nr 76 J 27 21:53:48 1984 bt	CW	(PPA)
10487	30-7-2012	1713	E11a	953/20 attention 38196 Out	USB	(PPA)
10488.0	16-8-2012	1926	E11	758/0000/00 Out	USB	Thu (FMB)
10504	5-8-2012	1740	E07	305 1	AM	Sun (HFD)
10504	8-8-2012	1740	E07	305 1 404 45 74985 ...	AM	Wed (AB)

frequency	date	UTC	enigma	remarks	mode	day	contributor
10504.0	1-8-2012	1745	E07?		AM	Wed	(SUP)
10543	8-8-2012	1851	M32a	RCV: Sevastopol Naval Radio. Ends 91-group msg to RCJG 75054 08091 = RCV K. RCJG de RCV K (sends corrections). Then RCJG de RCV QRV QSA2 K.	CW	Wed	(MPJ)
10598	8-8-2012	1850	M12	938 1	CW	Wed	(HFD)
10598	22-8-2012	1850	M12	938 1 5FGs	CW	Wed	(AB)
10599.0	8-8-2012	1854	M12	(ip) ttt ttt	CW	Wed	(FMB)
10640	17-8-2012	1119	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	Fri	(JPL-HK)
10640	23-8-2012	1120	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	Thu	(JPL-HK)
10640	24-8-2012	1019	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	Fri	(JPL-HK)
10640	25-8-2012	0320	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	Sat	(JPL-HK)
10640	25-8-2012	1119	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	Sat	(JPL-HK)
10640	25-8-2012	1219	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) //6840	CW	Sat	(JPL-HK)
10640	26-8-2012	1121	M89	(In progress) VVV (x3) Q2M DE NYZ (x2) QSA? K //6840	CW	Sun	(JPL-HK)
10640	30-8-2012	0920	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	Thu	(JPL-HK)
10640	30-8-2012	1020	M89	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	Thu	(JPL-HK)
10700	12-8-2012	1515	EV01	In progress. Weak. Unreadable	AM	Sun	(DLBB)
10753	16-8-2012	2010	E07	716 1 425 43 00758 62950 24763 ... 61350 000 000	AM	Thu	(Avare)
10753	16-8-2012	2010	E07	716 1-425/43=00758	AM	Thu	(HFD)
10754.0	2-8-2012	2010	E07	716 0	AM	Thu	(FMB)
10754.0	16-8-2012	2010	E07	716 1	USB	Thu	(FMB)
10754.0	16-8-2012	2010	E07	716 1 // 425 43 // 00758 62950 24763 67181 45148 47061 33034 65797 18438	AM	Thu	(Sparky)
10755.0	6-8-2012	1715	M14	(ip) == 764 764 297 297 ttttt	CW	Mon	(FMB)
10779	17-8-2012	1029	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //8789	CW	Fri	(JPL-HK)
10779	17-8-2012	1125	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //8789	CW	Fri	(JPL-HK)
10779	19-8-2012	2354	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	Sun	(JPL-HK)
10779	20-8-2012	1143	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //8789	CW	Mon	(JPL-HK)
10779	21-8-2012	1028	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //8789	CW	Tue	(JPL-HK)
10779	23-8-2012	0256	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	Thu	(JPL-HK)
10779	24-8-2012	1027	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //8789	CW	Fri	(JPL-HK)
10779	25-8-2012	0206	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	Sat	(JPL-HK)
10779	25-8-2012	0304	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	Sat	(JPL-HK)
10779	25-8-2012	1044	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //8789	CW	Sat	(JPL-HK)
10779	29-8-2012	2319	M89	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	Wed	(JPL-HK)
10779	30-8-2012	0917	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //8789	CW	Thu	(JPL-HK)
10779	30-8-2012	1034	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //8789	CW	Thu	(JPL-HK)
10779	30-8-2012	2255	M89	V WITN (x3) DE GNXG (x2) (Cont'd) //8789	CW	Thu	(JPL-HK)
10787	7-8-2012	1750	XPA	msg	MFSK	Tue	(HFD)
10800	27-8-2012	0450	E11	416/00	USB	Mon	(HS2)
10813.75	31-3-2011		M42a	Russian HFDF tracking & intercept net, unid northern chain station, channel control feedback routines to NCS "Gudok", mil unit 34608, GRU tactical coordination centre Podolsk / Klimovsk. After data sending Podolsk / Klimovsk. After data sending regular but non-scheduled A1A control feedback routines; "3k" on 10814 kHz.	CW		(TJ)
10814	31-3-2011		M42a	Russian HFDF net. Non scheduled control message "3K"	CW		(TJ)
10814	8-8-2012	0822	X06	Mazielka. Sequence: 412356	USB	Wed	(Linkz)
10818	8-8-2012	1540	M12	991 1	CW	Wed	(HFD)

frequency	date	UTC	enigma	remarks	mode	day contributor
10818	15-8-2012	1540	M12	991 0	CW	Wed (HFD)
10829.0	16-8-2012	1900	M42	Russian Gov/Intel.	Baudot 200/ 500	Thu (FMB)
10870.0	4-8-2012	0600	XPA2		MFSK	Sat (FMB)
10871.7	2-8-2012	1828	MX	Beacon D: Odessa/Sevastopol	CW	(MPJ)
10871.7	9-8-2012	1518	MX	Beacon "D"	CW	Thu (AB)
10871.7	22-8-2012	1835	MX	Beacon "D"	CW	Wed (AB)
10871.7	31-8-2012	1945	MX	Beacon "D"	CW	Fri (MPJ)
10871.8	2-8-2012	1827	MX	Beacon P: Kaliningrad	CW	(MPJ)
10871.8	9-8-2012	1518	MX	Beacon "P"	CW	Thu (AB)
10871.9	9-8-2012	1518	MX	Beacon "S"	CW	Thu (AB)
10871.9	22-8-2012	1835	MX	Beacon "S"	CW	Wed (AB)
10871.9	31-8-2012	1946	MX	Beacon "S"	CW	Fri (MPJ)
10872	6-8-2012	1510	MX	Beacon "C"	CW	Mon (AB)
10872	9-8-2012	1518	MX	Beacon "C"	CW	Thu (AB)
10872	22-8-2012	1835	MX	Beacon "C"	CW	Wed (AB)
10872	31-8-2012	1947	MX	Beacon "C"	CW	Fri (MPJ)
10872.0	2-8-2012	1825	MX	Beacon C: Moscow	CW	(MPJ)
10872.1	2-8-2012	1826	MX	Beacon A: Astrakhan/Baku	CW	(MPJ)
10872.1	22-8-2012	1835	MX	Beacon "A"	CW	Wed (AB)
10872.1	31-8-2012	1948	MX	Beacon "A"	CW	Fri (MPJ)
10872.3	9-8-2012	1518	MX	Beacon "K"	CW	Thu (AB)
10872.3	31-8-2012	1949	MX	Beacon "K"	CW	Fri (MPJ)
10872.4	9-8-2012	1518	MX	Beacon "M"	CW	Thu (AB)
10872.4	12-8-2012	0816	MX	Beacon "M"	CW	Sun (AB-HK)
10872.4	31-8-2012	1950	MX	Beacon "M"	CW	Fri (MPJ)
10895.0	22-8-2012	1523	M24	ip	CW	Wed (FMB)
10958	15-8-2012	1940	E07	349 1 411 54 83724 88725 62158 ... 51624 99937 000 000	AM	Wed (AB)
10987	12-8-2012	1440	M32	Russian Mil. APSG APSG APSG DE EEZN EEZN K. LMW3 LMW3 LMW3 DE EEZN EEZN K. X4J8 X4J8 X4J8 DE EEZN EEZN K. AAOV AAOV AAOV DE EEZN EEZN K. KSLT KSLT KSLT DE EEZN EEZN K	CW	Sun (DLBB)
11034.8	31-8-2012	2004	EGY	Egyptian Embassy, Pyongyang. Long-winded plaintext msgs kds kdktx-ke (unid) jg yslkgq. Off at 20:06.	SITOR-A	Fri (MPJ)
11076.0	17-8-2012	0710	M42	Russian Intel.	FSK 200/1000	Fri (FMB)
11076.0	17-8-2012	1025	M42	Russian Gov/Intel.	Baudot 200/ 500	Fri (FMB)
11082	9-8-2010	2137	M42a	"... 76827 KKKK. Ä Ä Ä KKK ..."	CW	
11082	14-5-2011	1914	M42a	"VVV VVV K"	CW	
11082	6-6-2011	1032	M42a	"VVV VVV VVV 3K"	CW	
11107.0	4-8-2012	1120	M42	Russian Intel.	FSK 200/1000	Sat (FMB)
11107.0	11-8-2012	1120	M42	Russian Intel.	FSK 200/1000	Sat (FMB)
11147	31-8-2012	1359	V16	Digital signal probably associated with Chinese numbers station V16	200 Bd 4-FSK 400 Hz spacing	Fri (Token)
11430	1-8-2012	0604	V13	New Star in progress	USB	(AB-HK)
11430	3-8-2012	0500	V13	New Star #4. Flute intro + code messages	USB	(AB-HK)
11430	4-8-2012	0600	V13	New Star #4. Flute intro + code messages	USB	(AB-HK)
11430	11-8-2012	0500	V13	New Star #4. Flute intro followed by coded messages	USB	Sat (AB-HK)
11430	15-8-2012	1200	V13	Flute intro followed by coded messages	USB	Wed (TI)
11430	16-8-2012	0703	V13	New Star in progress	USB	Thu (AB-HK)
11430	17-8-2012	1200	V13	music intro YL with msg	USB	Fri (Dan)

frequency	date	UTC	enigma	remarks	mode	day contributor
11430	18-8-2012	0500	V13	New Star #4. Flute intro + msgs	USB	Sat (AB-HK)
11430	18-8-2012	1300	V13	New Star #4. Flute intro + msgs	USB	Sat (AB-HK)
11430	19-8-2012	0500	V13	New Star #4. Flute tune + coded messages	USB	Sun (AB-HK)
11430	20-8-2012	0500	V13	New Star #4. Flute intro + coded messages	USB	Mon (AB-HK)
11430	20-8-2012	0600	V13	New Star #4. Flute intro + coded messages	USB	Mon (AB-HK)
11430	22-8-2012	0600	V13	New Star #4. Flute intro + coded messages	USB	Wed (AB-HK)
11430	23-8-2012	0600	V13	New Star #4. Musical intro + coded messages	USB	Thu (AB-HK)
11430	23-8-2012	0600	V13	New Star #4. Musical intro + coded messages	USB	Thu (AB-HK)
11430	23-8-2012	1200	V13	New Star #4. Musical intro + coded messages	USB	Thu (AB-HK)
11430	23-8-2012	1300	V13	New Star #4. Musical intro + coded messages	USB	Thu (AB-CA)
11430	24-8-2012	0600	V13	New Star #4. Tune + messages	USB	Fri (AB-HK)
11430	25-8-2012	1200	V13	New Star #4. Music + messages	USB	Sat (AB-AUS)
11430	25-8-2012	1300	V13	New Star #4. Music + messages	USB	Sat (AB-AUS)
11430	26-8-2012	1400	V13	New Star	AM	Sun (Daunt)
11430	27-8-2012	1200	V13	Flute opening and message	USB	Mon (HS2-HK)
11430	27-8-2012	1200	V13	New Star	USB	Mon (rusl)
11430	27-8-2012	1300	V13	New Star	USB	Mon (rusl)
11430	28-8-2012	0503	V13	New Star in progress	USB	Tue (AB-HK)
11430	30-8-2012	1200	V13	Music intro YL with msg.	USB	Thu (Dan)
11430.0	25-8-2012	1300	V13	New Star	USB	Sat (PanDR)
11430.0	26-8-2012	1200	V13	New Star	USB	Sun (PanDR)
11430.0	26-8-2012	1300	V13	New Star	USB	Sun (PanDR)
11435	8-8-2012	1830	M12	938 1	CW	Wed (HFD)
11435	15-8-2012	1835	M12	Fast 5FGs ending 44207 45472 32786 000 000	CW	Wed (MPJ)
11435	22-8-2012	1833	M12	in progress	CW	Wed (AB)
11435	29-8-2012	0559	SK01	RDFT Tx, best Rx to date; subsequent Tx every 5'; 0626 off air	RDFT	Wed (KC2TTK)
11438	4-8-2012	1900	S06	314 314 314 00000	AM	(HS2)
11468	11-8-2012	0303	M32	RDL: Russian military, reversals (200 Hz) and FSK Morse "RDL RDL RDL 84869 3636 MI 84969..." then msg in mixed groups of 5	CW	Sat (HS)
11468	13-8-2012	0305	M32	RDL: Russian military, reversals, then Morse "RDL RDL RDL 93365 31564... K"	CW	Mon (HS)
11468	14-8-2012	0148	M32	RDL: Russian military, reversals, then Morse "RDL RDL RDL STWDL 51... (weak) 96 K" and another short xmsn, uncopyable, same format	CW	Tue (HS)
11484	19-5-2012	1208	M42a	Russian HFDF net. VVV 1K2 VVV 2K QSV QSA	CW	(PPA)
11487.0	1-8-2012	0002	XPA2		MFSK	Wed (FMB)
11575.0	6-8-2012	1737	M51	ip.	CW	Mon (FMB)
11581	24-8-2012	1020	S11a	426/00	USB	Fri (AB)
12056	14-8-2012	0945	M32a	RGX80: Russian navy qso RIW zzt mmmkvlkmlk- kmlllkvlmklkkmv zfümdfüeqzowcxokssusl	CW	Tue (WP3)
12056	14-8-2012	0945	M32a	RIW: Russian Navy Moscow qso RGX80 zbd	CW	Tue (WP3)
12088	5-8-2012	1720	E07	305 1	AM	Sun (HFD)
12088	8-8-2012	1720	E07	305 1 404 45 74985 ...	AM	Wed (AB)
12088	26-8-2012	1710	E07	305 305 305 000	AM	Sun (AB)
12155	23-8-2012	1200	S06s	425 973 6 91826 56473 90806 24358 55618 69110 973 6 00000	USB	Thu (AB)
12155	30-8-2012	1200	S06s	425 973 6 91826 56473 90806 24358 55618 69110 973 6 00000	USB	Thu (AB)
12165	7-8-2012	1210	S06s	831 452 6 40613 66610 20336 17302 32045 24041 452 66 00000	USB	Tue (AB)

frequency	date	UTC	enigma	remarks	mode	day contributor
12165	27-8-2012	1210	S06s	831 495 6 87463 56473 89201 98073 23546 77109 495 6 00000	USB	Mon (AB)
12165	27-8-2012	1210	S06s	831 495 6 87463 56473 89201 98073 23546 77109 495 6 00000	USB	Mon (HS2)
12170.0	4-8-2012	0620	XPA2		MFSK	Sat (FMB)
12171.0	15-8-2012	0620	XPA2		MFSK	Wed (FMB)
12178	25-8-2012	1350	M12	451 1	CW	Sat (HFD)
12187	7-8-2012	1730	XPA	msg	MFSK	Tue (HFD)
12200.0	17-8-2012	0610	M42	Russian Intel.	FSK 200/1000	Fri (FMB)
12218	8-8-2012	1520	M12	991 1	CW	Wed (HFD)
12218	15-8-2012	1520	M12	991 1	CW	Wed (HFD)
12218	22-8-2012	1520	M01b	991 991 991 000 (R2)	CW	Wed (AB)
12220.5	9-8-2012	1117	DPRK	North Korean diplo wkg DPRK embassy Moscow	DPRK-ARQ 600/600	Thu (AnEur)
12220.5	11-8-2012	1120	DPRK	North Korean diplo	DPRK-ARQ 600/600	Sat (AnEur)
12464	9-8-2012	----	M32a	RCJG: Russian Navy Ship Ivan Bubnov qso rcv qsu1 qsx 12230 qwh 13125 k - ok qsu1 sk	CW	Thu (WP3)
12464	9-8-2012	----	M32a	RMYZ: Russian Navy rmyz 64792 bahromnyj 2232 5797 k	CW	Thu (WP3)
12464	9-8-2012	0914	M32a	RGR70: Russian Navy qso RIW qsu1 qwh 13086 qsx 12260 k - nr 183 49 9 1256 183 = fm raa 64643 66335 76885 17812 46418 55548(rpt of a msg from RIW)	CW	Thu (WP3)
12464	9-8-2012	0955	M32a	RMYZ: Russian Navy qtc to rcv rmyz 944 3 9 1344 944 = 98000 91305 09002 = + rmyz k * - rmyz 431 28 9 1504 431 = sml = 37371 72238 50157 ...	CW	Thu (WP3)
12464	12-8-2012	1424	M32a	RBES Russian Warship 1424 CW five number groups to RAL46	CW	Sun (LG2)
12464	14-8-2012	1031	M32a	RGX80: Russian navy clg RIW rgx80 ok qrr3 sk	CW	Tue (WP3)
12464	14-8-2012	1941	M32a	RAL68: Russian Navy qso RIT ok qrr3 qdw 7615 k	CW	Tue (WP3)
12464	22-8-2012	1128	M32a	RGQ: Russian Navy "rgq rgq 33333 96854 10547 10179 15616 97992 37543 11265 k"	CW	Wed (WP3)
12832	2-8-2012	1858	M32	RDL: Russian Strat Bcast routine 5FG msg ending ... 76063 K.	CW	(MPJ)
12924	13-8-2012	0830	E11	649/00	USB	Mon (Chief)
12924	23-8-2012	0830	E11	649/00	USB	Thu (AB)
12924	27-8-2012	0830	E11	649/00	USB	Mon (HS2)
12924	30-8-2012	0830	E11	649/00	USB	Thu (AB)
12952	30-8-2012	0900	S06s	167 167 167 00000	USB	Thu (AB)
13380	27-8-2012	1915	S06	260 0	AM	Mon (HFD)
13384.0	9-8-2012	1015	M42	Russian Gov/Intel.	Baudot 200/ 500	Thu (FMB)
13384.0	17-8-2012	1015	M42	Russian Gov/Intel.	Baudot 200/ 500	Fri (FMB)
13388	5-8-2012	1700	E07	305 1-404/45=74985	AM	Sun (HFD)
13388	8-8-2012	1700	E07	305 1 404 45 74985 ...	AM	Wed (AB)
13388	15-8-2012	1700	E07	305 305 305 000	AM	Wed (AB)
13388	26-8-2012	1700	E07	305 305 305 000	AM	Sun (AB)
13388.0	26-8-2012	1655	E07	ID 305 000	AM	Sun (PanDR)
13396	15-8-2012	0912	M32	xxx xxx xxx c1ob 6z2s tuzr 5j7q 44847 gläcewyj 9479 1339 k	CW	Wed (WP3)
13396.0	18-8-2012	1220	M42	Russian Gov/Intel.	Baudot 200/ 500	Sat (FMB)
13409.0	11-8-2012	1110	M42	Russian Intel.	FSK 200/1000	Sat (FMB)
13427	13-8-2012	0900	E11	534/00	USB	Mon (Chief)

frequency	date	UTC	enigma	remarks	mode	day contributor
13427	27-8-2012	0900	E11	534/00	USB	Mon (HS2)
13435	29-8-2012	1920	M42a	V marker and short message	CW	Wed (MOR)
13458	1-8-2012	1920	E07	349 0	AM	Wed (HFD)
13458	15-8-2012	1920	E07	349 1 411 54 83724 88725 62158 ... 51624 99937 000 000	AM	Wed (AB)
13458	29-8-2012	1920	E07	349 000	AM	Wed (HS2)
13459.0	1-8-2012	1920	E07	349 0	USB	Wed (FMB)
13459.0	13-8-2012	1920	E07	349 1	USB	Mon (FMB)
13479	7-8-2012	0948	M32c	REA4 Russian Strategic Air / 37th Air Army XXX XXX REA4 REA4 21477 KLOWNA 714	CW	Tue (LG2)
13479	7-8-2012	0949	M32c	924953 Russian Air Force aircraft sent DE C/N924953 K to REA4	CW	Tue (LG2)
13509.0	17-8-2012	0700	M42	Russian Intel.	FSK 200/1000	Fri (FMB)
13517	27-8-2012	0957	X06	Mazielka. Sequence: 463125	USB	Mon (HS2)
13527.7	10-8-2012	0948	MX	Beacon "D"	CW	Fri (LG2)
13527.7	12-8-2012	1549	MX	Beacon D: Odessa/Sevastopol	CW	Sun (MPJ)
13527.7	15-8-2012	1817	MX	Beacon "D" Odessa/Sevastopol	CW	Wed (MPJ)
13527.7	19-8-2012	1520	MX	Beacon "D"	CW	Sun (MPJ)
13527.7	22-8-2012	1835	MX	Beacon "D"	CW	Wed (AB)
13527.9	10-8-2012	0948	MX	Beacon "S"	CW	Fri (LG2)
13528	6-8-2012	1202	MX	Beacon "C"	CW	Mon (AB)
13528	10-8-2012	0948	MX	Beacon "C"	CW	Fri (LG2)
13528	15-8-2012	1816	MX	Beacon "C" Beacon Moscow	CW	Wed (MPJ)
13528	22-8-2012	1835	MX	Beacon "C"	CW	Wed (AB)
13528.1	6-8-2012	1202	MX	Beacon "A"	CW	Mon (AB)
13528.1	9-8-2012	1518	MX	Beacon "A"	CW	Thu (AB)
13528.1	10-8-2012	0948	MX	Beacon "A"	CW	Fri (LG2)
13528.1	12-8-2012	0816	MX	Beacon "A"	CW	Sun (AB)
13528.1	12-8-2012	1547	MX	Beacon A: Astrakhan/Baku	CW	Sun (MPJ)
13528.1	15-8-2012	1815	MX	Beacon "A" Astrakhan/Baku	CW	Wed (MPJ)
13528.1	17-8-2012	2117	MX	Beacon "A"	CW	Fri (AB)
13528.1	19-8-2012	1519	MX	Beacon "A"	CW	Sun (MPJ)
13528.1	22-8-2012	1835	MX	Beacon "A"	CW	Wed (AB)
13528.1	25-8-2012	1333	MX	Beacon "A"	CW	Sat (AB)
13528.2	9-8-2012	1518	MX	Beacon "F"	CW	Thu (AB)
13528.2	12-8-2012	0816	MX	Beacon "F"	CW	Sun (AB-HK)
13528.3	9-8-2012	1518	MX	Beacon "K"	CW	Thu (AB)
13528.3	12-8-2012	0816	MX	Beacon "K"	CW	Sun (AB-HK)
13528.4	9-8-2012	1518	MX	Beacon "M"	CW	Thu (AB)
13528.4	12-8-2012	0816	MX	Beacon "M"	CW	Sun (AB-HK)
13547.0	17-8-2012	1043	X06	Mazielka. Sequence 625413	USB	Fri (FMB)
13565	30-8-2012	0910	S06s	167 167 167 00000	USB	Thu (AB)
13568	25-8-2012	1330	M12	451 1	CW	Sat (HFD)
13591.0	9-8-2012	0810	M42	Russian Intel.	FSK 200/1000	Thu (FMB)
13918	8-8-2012	1500	M12	991 1	CW	Wed (HFD)
13918	15-8-2012	1500	M12	991 1	CW	Wed (HFD)
13930	2-8-2012	0500	E06	ip	AM	Thu (HFD)
13930	16-8-2012	0500	E06	210-975/104=41611	AM	Thu (HFD)
14011	24-7-2012	0818	M32	Russian Mil. GGY7 msg to C4KA: ZRI ZDY ZPF ZVT ZYH QYT6	CW	(IARUMS)
14011	24-7-2012	0836	M32	Russian Mil. GGY7 msg to V8A3: QJG QYT9	CW	(IARUMS)

frequency	date	UTC	enigma	remarks	mode	day contributor
14108	2-7-2012	0806	M32	Russian Mil. W1AU DE A3KS 613 192 2 0904 613 = 593 = 5FGs	CW	(IARUMS)
14108	2-7-2012	0834	M32	Russian Mil. QYT9 K	CW	(IARUMS)
14108	2-7-2012	0905	M32	Russian Mil. DQCI msg to: 9PDK, N4T5, DUKW, 1QT1, 8MQS, QDTW, K5ZV	CW	(IARUMS)
14108	2-7-2012	0920	M32	Russian Mil. GTIP msg to N4T5: QBE QYT9 K	CW	(IARUMS)
14108	4-7-2012	0552	M32	Russian Mil. 8UQS DE DQCI ZWO ZTO ZTB QRR3 K	CW	(IARUMS)
14108	5-7-2012	0721	M32	Russian Mil. 9PDK DE DQCI ZFN ZQP ZDV QYT9 K	CW	(IARUMS)
14108	5-7-2012	0758	M32	Russian Mil. GTIP msg to 9PDK	CW	(IARUMS)
14108	5-7-2012	1029	M32	Russian Mil. DUKW DE 8UXM QBE QYT9 K	CW	(IARUMS)
14108	5-7-2012	1033	M32	Russian Mil. 1QTK DE 8UXM ZWL ZWZ ZGL QYT6 K	CW	(IARUMS)
14108	6-7-2012	0629	M32	Russian Mil. 1QTK DE DQCI ZWO ZTM ZPV QYT6 K	CW	(IARUMS)
14108	7-7-2012	0522	M32	Russian Mil. 5LGs	CW	(IARUMS)
14108	8-7-2012	1008	M32	Russian Mil. DQCI msg to: 1QTK, 8UQS, QDTW, K52V	CW	(IARUMS)
14108	9-7-2012	0818	M32	Russian Mil. XXX WEGI 12334 BIR4IJ 2064 9835 K	CW	(IARUMS)
14108	9-7-2012	0850	M32	Russian Mil. XXX WLHN 449 1002596 79734 BR4KANEC 4093 8238 ÉREMURUS 8311 2383 ROGOZ 2271 8345	CW	(IARUMS)
14108	11-7-2012	0923	M32	Russian Mil. QGAS msg to 9BT3: 5FGs ending 583 k	CW	(IARUMS)
14108	11-7-2012	0939	M32	Russian Mil. XCSO msg to: 9BT3, LOKT, 8XMZ, 9DKM, PCBC	CW	(IARUMS)
14108	12-7-2012	0857	M32	Russian Mil. XCSO msg to 2OTL: P PPPP 5FGs	CW	(IARUMS)
14108	19-7-2012	1020	M32	Russian Mil. XXX WEGI 26413 DIBROMETAN 0526 1522 K	CW	(IARUMS)
14108	19-7-2012	1055	M32	Russian Mil. 2OTL DE XCSO QTC K	CW	(IARUMS)
14108	21-7-2012	0724	M32	Russian Mil. GDFX msg to WDIF, 8BGQ, 1AME, WNF5, HPLD, PS7S, NILF	CW	(IARUMS)
14108	23-7-2012	0525	M32	Russian Mil. GDFX msgs to: WDIF, 8BGQ, 1AME, WNF5, HPLD	CW	(IARUMS)
14108	24-7-2012	0839	M32	Russian Mil. GDFX 5FGs ending 514 rpt al K	CW	(IARUMS)
14108	25-7-2012	0814	M32	Russian Mil. FNQU msg to 8BGQ: FNQU 557 22 25 1106 557 = 683 = 5FGs 492 K	CW	(IARUMS)
14108	25-7-2012	0950	M32	Russian Mil. GDFX msg to: WDIF, 8BGQ, 1AME, WNF5, HPLD	CW	(IARUMS)
14108	26-7-2012	0822	M32	Russian Mil. XXX WEGI 51960 TETRADEKAN	CW	(IARUMS)
14108	26-7-2012	0822	M32	Russian Mil. 0353 1647 METIN 1542 8094 K	CW	(IARUMS)
14108	27-7-2012	0542	M32	Russian Mil. Y1CQ QTA QLX K	CW	(IARUMS)
14108	27-7-2012	0548	M32	Russian Mil. GDFX msgs to WDIF, 8BGQ, 1AME, WNF5, HPLD, PS7S, NILF	CW	(IARUMS)
14108	28-7-2012	0826	M32	Russian Mil. GDFX msg to: HPLD, PS7S, NILF	CW	(IARUMS)
14108	31-7-2012	0749	M32	Russian Mil. GDFX msg to: HPLD, WDIF, 8BGQ, 1AME, WNF5, PS7S, NILF	CW	(IARUMS)
14292	2-7-2012	0627	M32c	Russian Airforce. "KTDU de 9JJ6"	CW	(IRAUMS)
14378	1-8-2012	1900	E07	349 0	AM	Wed (HFD)
14378	15-8-2012	1900	E07	349 1 411 54 83724 88725 62158 ... 51624 99937 000 000	AM	Wed (AB)
14378	29-8-2012	1900	E07	349 000	AM	Wed (HS2)
14378.0	13-8-2012	1900	E07	349 1	USB	Mon (FMB)
14398.0	17-8-2012	0600	M42	Russian Intel.	FSK 200/1000	Fri (FMB)
14422	15-8-2012	2000	E07	349 1 411 54 83724 88725 62158 ... 51624 99937 000 000	AM	Wed (Daunt)
14444.0	13-8-2012	1824	S06c	11097	AM	Mon (FMB)

frequency	date	UTC	enigma	remarks	mode	day contributor
14468	25-8-2012	1310	M12	451 1	CW	Sat (HFD)
14469	23-8-2012	1310	M12	451 1 5FGs	CW	Thu (AB)
14508	8-8-2012	0859	M32c	REA4 Russian Strategic Air / 37th Air Army "EJBVZ RX QSU1 K"	CW	Wed (LG2)
14535	23-8-2012	1210	S06s	425 973 6 91826 56473 90806 24358 55618 69110 973 6 00000	USB	Thu (AB)
14535	30-8-2012	1210	S06s	425 973 6 91826 56473 90806 24358 55618 69110 973 6 00000	USB	Thu (AB)
14580	29-8-2012	1000	S06	729 00000	AM	Wed (HS2)
14630	9-8-2012	1752	M42	Russian Diplo	CROWD-36	Thu (PPA)
14664	5-8-2012	1351	M32a	RDL: Navy Murmansk flash message after xxx xxx WEGI WEGI 07926	CW	Sun (PPA)
14682	5-8-2012	0635	M32	MG9J: Russian Mil. MG9J OK FOR QBE K at 06:44 into 5L message after MG9J = WHCLP At 0646 UTC: 4FG msg after MG9J T25 T25 728 = 21T8 6617 Later MG9J QRV K	CW	Sun (PPA)
14702	15-8-2012	1940	M32c	REA4: Russian Strat Air Bcast ... REA4 K. Reverts to dots and QSYs at 19:57.	CW	Wed (MPJ)
14753	24-8-2012	0710	E11	633/00	USB	Fri (AB)
14856	27-8-2012	0831	M32	CIS Mil. "9C6J JQ3L JQ3L JQ3L QTC+ JQ3L JQ3L JQ3L 62T 3427 124T 62T ="	CW	Mon (BCI)
15123	31-8-2012	1509	V16	Digital signal possibly associated with Chinese numbers station V16	200 Bd 4-FSK 400 Hz spacing	Fri (Token)
15410.0	24-8-2012	1210	XPA2		MFSK	Fri (FMB)
15721	13-8-2012	0400	S06	480 253 60 59961 48697 84314 46751 28826 etc	AM	Mon (Avare)
15721	15-8-2012	0406	S06	in progress 47532 12714 11292 96469 53454 67121 79495 ... 06543 357 52 000000	AM	Wed (Avare)
15721	21-8-2012	0400	S06	480 963 58 35549 36048 00258 75034 963 58 00000	AM	Tue (Avare)
15721	22-8-2012	0400	S06	480 517 60 53065 84174 34449 75899 ... 96703 517 60 00000	AM	Wed (Avare)
15721	23-8-2012	0400	S06	480 ??? 279?, mistake, send only 60 groups.	AM	Thu (Avare)
15721	24-8-2012	0400	S06	480 00000, silence, then 480 673 51 47257 12777 00257 21008 55920 673 51 00000	AM	Fri (Avare)
15721	27-8-2012	0400	S06	480 129 58 etc	AM	Mon (Avare)
15721	28-8-2012	0400	S06	S06 with some problems. 480 480 480 480 480 480 4 48800 480 (R3) 751 60 51657 09058 36966 ... 72129 01066 751 60 00000	AM	Tue (Avare)
15805	27-8-2012	1815	S06	260 0	AM	Mon (HFD)
15805	27-8-2012	1815	S06	260 00000	AM	Mon (HS2)
15868.0	11-8-2012	1100	M42	Russian Intel.	FSK 200/1000	Sat (FMB)
15891.0	17-8-2012	0613	E06	ip	USB	Fri (FMB)
15940.0	9-8-2012	0800	M42	Russian Intel.	FSK 200/1000	Thu (FMB)
15967	11-8-2012	1210	M42	Russian Intel. 00000+++++++162)5761	FSK 200/500	Sat (AnEur)
16020	29-8-2012	1010	S06	729 00000	AM	Wed (HS2)
16125	21-8-2012	1045	E11	576/00	USB	Tue (HFD)
16331.7	6-8-2012	1202	MX	Beacon "D"	CW	Mon (AB)
16331.7	9-8-2012	1518	MX	Beacon "D"	CW	Thu (AB)
16331.7	22-8-2012	1835	MX	Beacon "D"	CW	Wed (AB)
16331.9	6-8-2012	1202	MX	Beacon "S"	CW	Mon (AB)
16331.9	9-8-2012	1518	MX	Beacon "S"	CW	Thu (AB)
16332	1-8-2012	1553	M32	Russian Mil. uuu xxx xxx wegi wegi 75258 27983 tawotnyj 5115 7687 k	CW	(TJ)

frequency	date	UTC	enigma	remarks	mode	day contributor
16332	1-8-2012	1600	M32	Russian Mil. uuu xxx xxx rgt77 rgt77 75763 27011 tawtoloigä 9075 2314 k	CW	(TJ)
16332	2-8-2012	0340	M32	Russian Mil. RGT77	CW	(EW)
16332	5-8-2012	0714	MX	Beacon F, Vladivostok	CW	Sun (AB-HK)
16332	6-8-2012	1202	MX	Beacon "C"	CW	Mon (AB)
16332	9-8-2012	1518	MX	Beacon "C"	CW	Thu (AB)
16332	22-8-2012	1835	MX	Beacon "C"	CW	Wed (AB)
16332.2	9-8-2012	1518	MX	Beacon "F"	CW	Thu (AB)
16335	22-8-2012	1156	E11	716/37	USB	Wed (MCO)
16335	23-8-2012	1155	E11a	716/37	USB	Thu (AB)
16388	10-8-2012	1110	E11a	950/31=38028	USB	Fri (HFD)
16388	24-8-2012	1110	E11a	958/35 ?? Barely audible	USB	Fri (AB)
16530	23-8-2012	1015	S11a	475/00	USB	Thu (AB)
16780	23-8-2012	0800	E17z	674 235 8 46531 23264 78564 80816 23154 66437 87851 78931 235 8 00000	AM	Thu (AB-GRC)
16948.4	28-8-2012	1709	DPRK	North Korean diplo	DPRK-ARQ 600/600	Tue (PPA)
17421	7-8-2012	0942	X06	Mazielka. Sequence: 246531	USB	Tue (linkz)
17422	7-8-2012	1056	M42	Russian diplo	CROWD-36	Tue (LG2)
17457.25	14-8-2012	0943	M32b	460085: Russian Naval Transport "QTC K 15852 1414T T158 = FM 460085 FOR 408313 = YCHIO PLDCH"	CW	Tue (BCI)
17482	11-8-2012	1200	M42	Russian Intel. 00000+++++++162)5761	FSK 200/500	Sat (AnEur)
17511	13-8-2012	0858	M42	Russian Gov/Intel.	FSK 50/500	Mon (BCI)
17700	25-8-2012	0720	EV01	YL/EE	AM	Sat (linkz)
17700	25-8-2012	0723	EV01	YL/EE in progress	AM	Sat (AB-I)
18149	15-8-2012	0710	M42	Russian Gov/Intel.	RUS-ARQ 100/1000	Wed (BCI)
18206	7-8-2012	0940	X06	Mazielka. Sequence: 246531	USB	Tue (linkz)
19813	15-8-2012	0700	E11c	747/0000/00	USB	Wed (Avare)
19843	14-8-2012	1625	M42	Russian Diplo. 5FGs	CROWD-36	Tue (MCO)
19843.5	14-8-2012	1616	M42	Russian Diplo	CROWD-36	Tue (BCI)
19878.5	16-8-2012	1630	M42	Russian Diplo	CROWD-36	Thu (BCI)
20047.7	6-8-2012	1202	MX	Beacon "D"	CW	Mon (AB)
21128.5	7-8-2012	0930	DPRK	North Korean diplo	DPRK-ARQ 600/600	Tue (IARUMS)
21323.5	24-8-2012	0926	DPRK	North Korean diplo	DPRK-ARQ 600/600	Fri (IARUMS)
21438	7-8-2012	2103	M32a	Russian Navy: RIP90 de RCV	CW	Tue (AB)

CONTRIBUTORS

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AB-D	Ary Boender via remote rx Germany	JPL-HK	JPL via GlobalTuners Hong Kong
AB-EST	Ary Boender via remote rx Estonia	KC2TTK	KC2TTK, NY, USA
AB-GRC	Ary Boender via remote rx Greece	LG2	Les G, UK
AB-HK	Ary Boender via remote rx Hong Kong	linkz	Linkz, S.E. France
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