

678	27364	92836	89428	61288	74982	36498	32764	81276	81
986	48932	78987	32123	49817	26346	81287	65491	87364	81
721	75654	55656	12737	72727	72727	91918	63473	67867	76
723	87629	37677	32612	53498	71296	28756	18276	98716	87
7269	76329	74698	76857	98670	27601	56701	57601	73648	15
591	87364	87265	96710	27630	12673	84769	28743	98127	59
58	63298	75698	27465	87326	49876	28376	81273	98615	62
667	87432	74328	78674	29867	32867	67867	86786	43286	432
657	68768	68763	34234	34238	68768	62342	48273	48768	234
936	98432	32432	86743	43286	43286	43286	43286	43286	432
743	86743	86743	39867	32867	86743	43286	43286	43243	867
741	86743	86743	86743	86743	86743	86743	86743	86743	435
543	98798	98754	98754	98754	98754	29867	67543	67986	867
76	87698	69876	87698	69876	87612	12341	34867	86798	632
867	43298	65656	56756	56123	32143	14321	32143	14321	321
41	32787	58765	76587	58765	76587	58765	76587	58756	765
75454	36543	54365	36543	54365	36543	54365	36543	54365	543

# Numbers & Oddities

## a.k.a. The Spooks Newsletter

*Edition #172, January 2012*

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

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

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

<http://www.ary.luna.nl>

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

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



Hi and welcome to the first edition of 2012.

### **New designator.**

The station on 10400/11000/13400/16000 kHz is now so often logged that I thought that it would be handy to assign a code to it. To distinguish it from the Enigma designators, I call it EV01 (English voice 1). If Enigma should decide to give it a designator than it will be changed to that code. For now it will be EV01.

What can you expect in this edition of N&O? Well, quite a lot of interesting stuff, i.m.h.o.

- A report of the Russian fleet exercises in the Mediterranean, mapped in Google Earth;
- More Google Earth stuff with pictures of Chinese SIGINT and transmitter sites, North Korean military and communication sites, and SIGINT/antenna sites in Taiwan;
- An intelligence profile;
- A report of the new numbers station EV01;
- 4XZ became more active;
- Last but certainly not least an excellent profile of S30 written by Tucana. The profile is a bit too long to include it completely in N&O but you can download the full version from the N&O and Priyom websites;
- Further the usual sections with lots of logs, message transcripts and info.

I hope that you will like it and please, keep sending me your logs and numbers related info.

You can find a “Back Down Memory Lane” document on the N&O website. It is a declassified document about the German exploitation of Russian communications in World War II. Below the introduction.

*Prepared under the direction of the CHIEF, ARMY SECURITY AGENCY*

*1 May 1946 WDGAS-U*

*[Declassified and approved for release by NSA on 11-30-2009 pursuant to E.O. 12958, as amended. DECLAS 58017a]*

### **INTRODUCTION**

*The contents of this volume deal with German exploitation of Russian communications through Traffic Analysis. There is not as much source material available on Russia as there is on United States and England. The main interest of the interrogation officers normally was centered on gaining intelligence concerning American and British communications, and consequently, interest concerning German activity on the communications of other countries had to be of secondary importance. In addition, because of the conditions under which many of the interrogations were conducted—a number of them being made in active combat zones—there were often times great difficulties encountered in carrying out even the necessary routine line of questioning. Even had there been ideal conditions under which to work it is probable that not much more intelligence could have been obtained on Russian communications because the German personnel who were engaged in that work were in the Russian zone of operations. Only a few of these fell into English or American hands—the Russians capturing the others. However, the material which is, available does give a fairly adequate, though not complete, picture of Russian communications as seen by the German Traffic Analyst.*

I have been interviewed by the Dutch radio and TV station VPRO for an item about numbers stations. This will probably be aired somewhere in February, before the next N&O will be out. I don't know when but check the “what's new” page on the N&O website for the transmission time and frequencies. I will add the info as soon as I know more.

THANKS to everyone who contributed to N&O 172, especially Fritz, Tucana, JPL, Avare, Token, Manolis, Jan and Wolfgang.



## VOICE STATIONS

### E06



15810 kHz, 06-01, 0700 UTC

139 826 104  
28956 14274 39361 78356 72027 10858 72829 20644 68748 75758  
74818 72999 17479 28690 58425 48565 96953 04115 74937 73686  
63388 80556 75164 08322 21135 77598 33141 58312 52797 50222  
96642 02174 64197 35233 77967 36559 69086 29390 43402 21667  
07644 03974 08813 28641 29528 85478 61310 46295 07592 57087  
87916 25259 85091 60645 99165 14761 28370 03809 88612 28814  
26302 02056 59090 83974 48862 10243 99813 75872 66535 26412  
09102 86705 08508 51507 86759 40868 08586 97722 44524 50920  
03976 95133 08006 21071 71458 81329 08583 00370 92098 15715  
88665 02795 20432 69177 69710 36421 99051 40804 49906 08859  
54559 81339 49506 01147  
826 104 00000

5783/4489 kHz, 14+15-01, 0130/0230 UTC: :

759 681 34  
03326 83248 72885 04408 69841 16818 79167 95478 60895 37577  
45480 14909 73862 63829 95440 16317 29454 37188 02428 68133  
52519 70352 47192 35410 49822 79737 99780 83199 95730 57666  
99218 68718 61750 63789  
681 34 00000

5783/4489 kHz, 21+22-01, 0130/0230 UTC::

759 184 32  
70113 26639 45551 63654 07467 95858 23755 14331 54727 79532  
69598 30357 22330 22041 39561 45775 13663 81069 02292 76161  
43301 88016 81883 53775 06507 63993 82894 71404 92187 53415  
01792 58331  
184 32 00000

4836 kHz, 05-01, 2031 UTC:

321 274 15  
65784 65489 08796 32143 54675 98790 76874 32143 54675 43219  
65785 78953 21765 43789 54642  
274 15 00000

5796/4516 kHz, 01-01, 0130/0230 UTC:

759 180 32  
97712 87565 08547 58234 10478 32030 69269 05617 58420 78912  
55028 91445 14644 34747 32438 04663 77977 93698 62944 57821  
27439 98162 33201 94079 01520 82111 61277 56070 75589 25898  
41792 90455  
180 32 00000

5783/4489 kHz, 07+08-01, 0130/0230 UTC:

759 246 31  
84561 80501 97365 82189 07177 53285 98791 71693 40694 21466  
95683 01225 39393 98596 41617 42736 58426 12376 09729 10133  
83408 46318 69812 88488 95250 57691 46757 70003 68692 63912  
21278  
246 31 00000

5783/4489 kHz, 28+29-01, 0130/0230 UTC:

759 468 31  
55655 31574 22655 17747 27894 58327 65378 81909 30234 21714  
60943 53956 66947 14544 05693 52103 86616 42215 14002 60112  
42488 18194 64409 01715 83379 12326 09921 35852 48595 19160  
88396  
468 31 00000

### E07/E07a



5864/5164/4564 kHz, 04+25-01, 2100/2120/2140 UTC

815 815 815 1 16663 478 51  
42235 48928 14775 38652 25050 57869 15624 59081 63893 01332  
67584 55810 36379 16786 93847 08666 45842 87292 13889 47832  
45184 83632 19247 29911 36633 08309 07205 47541 74804 58411  
32888 89214 24847 78955 70075 27935 19108 59118 87787 51709  
36544 68094 72526 63830 47934 52357 34727 41881 92981 93407  
82480  
000 000

6774/5863/4893 kHz, 15-01, 1800/1820/1840 UTC  
6774/5863/4893 kHz, 18-01, 1800/1820/1840 UTC

788 788 788 1 821 59  
05487 50714 05868 25949 85852 42969 73016 72912 81412 03270 66218  
44308 16899 98051 17605 64147 75969 16976 92257 39208 25113 52006  
28444 76239 20900 04250 36474 94976 35995 40771 03966 98885 72214  
99964 85668 86761 77119 85535 19163 29312 27997 94711 03210 06481  
81786 30433 18196 63259 63397 88731 33363 99754 45541 05152 58840  
34316 91280 60531 46805 000 000

5882 kHz, 09-01, 2020 UTC: 981 981 981 000  
6774 kHz, 11-01, 1800 UTC: 788 788 788 000  
5836 kHz, 11-01, 1820 UTC: 788 788 788 000  
6982 kHz, 11-01, 2000 UTC: 981 981 981 000  
5882 kHz, 11-01, 2020 UTC: 981 981 981 000  
5864 kHz, 11-01, 2100 UTC: 815 815 815 000  
5864 kHz, 18-01, 2100 UTC: 815 815 815 000  
5164 kHz, 18-01, 2120 UTC: 815 815 815 000  
6982 kHz, 30-01, 2000 UTC: 981 981 981 000  
5882 kHz, 30-01, 2020 UTC: 981 981 981 000

6982/5822/5182 kHz, 18-01, 2000/2020/2040 UTC

981 981 981 1 738 46  
78966 54149 12557 28133 03010 41651 63410 45819 36836 10225  
96648 28317 72322 92387 53780 03911 54998 55292 99454 75130  
91891 58137 54185 09346 51703 15530 83753 82017 31738 97153  
09680 81107 37702 69288 51087 07115 36307 45979 20300 01778  
81357 91142 28996 04102 85731 63946  
000 000



## E11/E11a



8091 kHz, 03-01, 1045 UTC: 464/36  
8091 kHz, 04-01, 1045 UTC: 464/36  
9446 kHz, 04-01, 0900 UTC: 534/00  
9446 kHz, 05-01, 0830 UTC: 649/00  
5082 kHz, 05-01, 1730 UTC: 416/00  
10800 kHz, 03-01, 0710 UTC: 633/00  
10359 kHz, 03-01, 0727 UTC: 757/2200/00  
14410 kHz, 06-01, 1110 UTC: 950/30  
4441 kHz, 08-01, 1050 UTC: 120/35  
9446 kHz, 09-01, 0830 UTC: 644/33  
9446 kHz, 09-01, 0900 UTC: 530/37  
9446 kHz, 11-01, 0900 UTC: 530/37  
8091 kHz, 11-01, 1045 UTC: 469/00  
15632 kHz, 11-01, 1155 UTC: 718/00  
4441 kHz, 11-01, 1445 UTC: 267/36  
7317 kHz, 12-01, 0820 UTC: 438/00  
9446 kHz, 12-01, 0830 UTC: 644/33  
4441 kHz, 12-01, 0900 UTC: 246/00  
7840 kHz, 12-01, 0645 UTC: 517/00  
16112 kHz, 12-01, 0745 UTC: 335/00  
15632 kHz, 12-01, 1155 UTC: 718/00  
6480 kHz, 12-01, 1148 UTC: ??? ends 00  
10800 kHz, 13-01, 0710 UTC: 633/00  
4441 kHz, 14-01, 0900 UTC: 248/00  
10690 kHz, 14-01, 1400 UTC: 983/10  
4441 kHz, 14-01, 1445 UTC: 288/36  
9446 kHz, 16-01, 0830 UTC: 649/00  
9446 kHz, 16-01, 0900 UTC: 534/00  
12153 kHz, 16-01, 1600 UTC: 641/20  
7840 kHz, 17-01, 0645 UTC: 515/35  
10800 kHz, 17-01, 0710 UTC: 633/00  
8091 kHz, 17-01, 1045 UTC: 469/00  
10690 kHz, 17-01, 1400 UTC: 988/10  
9446 kHz, 18-01, 0900 UTC: 534/00  
8091 kHz, 18-01, 1045 UTC: 469/00  
15632 kHz, 18-01, 1155 UTC: 718/00  
4441 kHz, 18-01, 1445 UTC: 287/00  
7840 kHz, 19-01, 0645 UTC: 515/35  
7317 kHz, 19-01, 0820 UTC: 434/35  
9446 kHz, 19-01, 0830 UTC: 649/00  
12153 kHz, 19-01, 1600 UTC: 647/23  
4441 kHz, 21-01, 0900 UTC: 248/00  
9446 kHz, 23-01, 0830 UTC: 649/00  
9446 kHz, 23-01, 0900 UTC: 534/00  
4441 kHz, 23-01, 1050 UTC: 127/00  
12153 kHz, 23-01, 1600 UTC: 645/23  
8091 kHz, 24-01, 1045 UTC: 469/00  
10690 kHz, 24-01, 1400 UTC: 981/10  
10690 kHz, 28-01, 1400 UTC: 981/10  
12153 kHz, 30-01, 1600 UTC: 641/23  
8091 kHz, 31-01, 1045 UTC: 469/00

---

10690 kHz, 14-01, 1400 UTC:

981/10 Attention  
08961 94885 92676 55236 14280 00658 96548 48843 62750 40751  
Attention -repeat message- Out

---

12153 kHz, 16-01, 1600 UTC:

641/20 Attention  
11317 99615 23604 97094 76863 47462 68576 79239 02925 46021  
45528 21188 00186 56229 78207 94905 12212 17306 35653 01466  
Attention -repeat message- Out

4441 kHz, 08-01, 1050 UTC

120/35 Attention

84795 93678 46111 70693 52416 24508 49921 49132 40823 73793  
30149 57274 89100 43504 34280 53366 02572 43753 18153 87263  
01808 15887 37024 00634 10315 97670 22854 81842 51123 02523  
25030 58114 96901 68173 16239 Attention -repeat message- Out

---

9446 kHz, 11-01, 0900 UTC:

530/37 Attention

76599 07693 60657 58040 41059 04274 60654 63833 42025 26565  
29102 99871 55029 16180 16521 46315 67135 47082 44579 10446  
95982 55145 66249 88156 02230 71618 70807 25207 86236 22037  
68477 28776 15017 30772 48620 52920 55747  
Attention -repeat message- Out

---

4441 kHz, 14-01, 1445 UTC:

288/36 Attention

87590 54822 27212 40783 30544 84112 83475 09951 82527 26316  
95524 72567 52607 90015 34937 80659 98370 90408 12075 35952  
64371 80331 90109 91641 33956 10580 64752 43713 65917 35912  
91780 11342 71064 77386 91417 43696  
Attention -repeat message- Out

---

10690 kHz, 17-01, 1400 UTC:

988/10 Attention

16142 85935 14158 80599 20613 37752 18468 28697 38498 58453  
Attention -repeat message- Out

---

7317 kHz, 19-01, 0820 UTC:

434/35 Attention

46728 10585 75913 50862 97564 85975 81863 20912 07964 25481  
24194 25640 24370 33766 03514 79228 55468 14391 24678 56742  
93017 75592 69628 40613 78941 98027 91970 51560 32103 86635  
07911 12779 29814 75699 76358 Attention -repeat message- Out

---

10690 kHz, 24-01, 1400 UTC:

981/10 Attention

31177 06826 67824 00275 29317 08943 71705 31188 13964 98137  
Attention -repeat message- Out

---

10690 kHz, 28-01, 1400 UTC:

981/10 Attention

60432 12658 92725 10510 82245 04872 31881 76539 53737 58910  
Attention -repeat message- Out

---

12153 kHz, 30-01, 1600 UTC:

641/23 Attention

91170 72200 60570 56813 20866 95067 43351 53250 60555 00841  
49478 90335 44386 55226 78776 25523 92275 15351 62988 13169  
87097 68763 49123 Attention -repeat message- Out

---

8091kHz, 03+04-01, 1045 UTC:

464/36 Attention

26626 92002 13061 64853 27354 80834 93191 35483 85799 17873  
23868 31650 16167 65939 25246 24162 34147 83621 46654 06342  
75223 51286 59003 35612 51209 53011 65275 55958 10227 36734  
74544 20794 38889 10854 89184 53028 Attention -repeat message- Out



## E17z



11170 kHz, 12-01, 0800 UTC: 674 832 5 85726 56643 00958 34890 56755 832 5 00000

---

## E25/E25a



Thanks to everyone who supplied the E25 logs, especially Manolis.

9450 kHz, 1114 UTC, 04-01: 315 315 315 MSG 3x 5498 4841  
4080 2907 1278 9538 4841 6285 RBT 3x EOM

9450 kHz, 1315 UTC, 05-01: 780 780 780 MSG 3x 9990 2011  
0410 1707 7125 8033 5056 4623 6135 6711 0413 RBT 3x  
EOM

6140 kHz, 0816 UTC, 06-01: 187 8 tone, YL, Mx3, Rx3,  
EOM

6140 kHz, 0929 UTC, 06-01: 133 9316 0288 1706 4534 7571  
2882 6495 135 70 tone, YL, 13 rptd, Mx3, WinXP sounds

9450 kHz, 1314 UTC, 06-01: 780 780 780 MSG 3x 9990 2011  
0410 1707 7125 8033 5056 4623 6135 6711 0413 RBT 3x  
EOM

6140 kHz, 0758 UTC, 08-01: 116 116 116 MSG 3x 2290 1532  
3440 8822 4162 4660 9708 6176 5441 tone, YL, WinXP  
beeps, EOM

9450 kHz, 1315 UTC, 08-01: 780 780 780 MSG 3x 9990 2011  
0410 1707 7125 8033 5056 4623 6135 6711 0413 RBT 3x  
EOM, 1310z buzzes, tone, YL

6140 kHz, 0800 UTC, 09-01: 117 9 116 9 117 9 117 9

6140 kHz, 0931 UTC, 09-01: 133 1222 3319 1733 3139 2722  
5175 4768 1224 7499 tone, YL, WinXP sounds

6140 kHz, 1115 UTC, 09-01: 880 6130 2190 1099 4796 8321  
5657 1829 6264 6130 tone, YL, EOM

9450 kHz, 1232 UTC, 09-01: carrier on 9450 up at 1200 UTC.  
Incomplete message at 1232 UTC: Song: Arouh Lemin; 555  
555 555 MSG 3x 9010 3031 8920 8887 1249 9959 8338 5410  
1576 45 off; tone; 555 555 5555 MSG 3x 9010 3031 8920  
8887 1249 9959 8338 5410 1576 4691 4587 8347 8920 RBT  
3x EOM EOT (Recording by Avare on the N&O website)

9450 kHz, 1322 UTC, 09-01: 780 carrier 1306z, YL, EOM

6140 kHz, 0930 UTC, 10-01: 133 133 133 MSG 3x 1222 3319  
1733 3139 2722 5175 4768 1224 7499 RBT 3x EOM

6140 kHz, 1029 UTC, 10-01: 672 2523 6046 6527 2218 0139

7678 5550 4471 9949 8025 3328 7613 2047 1860 tone, YL,  
EOM

6140 kHz, 1045 UTC, 10-01: 126 50 tone, YL, Mx3

9450 kHz, 1159 UTC, 10-01: "Arouh Limin" - song, 557 3  
557 3 557 3 MSG 3x RBT 3x EOM

9450 kHz, 1230 UTC, 10-01: 557 3 carrier 1200z, tone, ALM,  
YL, Mx3, Rx3, EOM, carrier

6140 kHz, 1029 UTC, 11-01: 672 tone, YL, EOM only

6140 kHz, 0828 UTC, 12-01: 701 2711 3311 1270 2435 1190  
2972 3311 tone, YL, RBT 3x EOM, Windows sound, EOT  
twice

6140 kHz, 0830 UTC, 12-01: 701 MSG 3x 2711 3311 1270  
2435 1190 2972 3311 RBT 3x EOM (windows sound) EOT

6140 kHz, 0929 UTC, 12-01: YL 133 133 133... MESSAGE  
MESSAGE MESSAGE 7658 3342 9255 8687 9076 1920 2197  
2169 6842 3967 7686 4842 REBEAT REBEAT 7658 3342 9255  
8687 9076 1920 2197 2169 6842 3967 7686 4842 EOM

6140 kHz, 1115 UTC, 12-01: YL 887 1 887 10 887 10...887 10  
887 10 887 1 pause 10 887 10 887 10 Windows sound 1  
tone

9450 kHz, 1215 UTC, 12-01: Ente Omri ?? 8835 837 3 5 835  
837 3 835 8 8 8 8 MSG 3x 1060 9410 0808 8914 9410  
7579 RBT 3x EOM EOT

9450 kHz, 1315 UTC, 12-01 UTC: 788 4689 ... EOM EOT

6140 kHz, 0929 UTC, 13-01: 133 carrier i.p., tone, YL, AM

6140 kHz, 1118 UTC, 13-01: 887 10 tone, YL, Mx3, Rx3,  
EOM

9450 kHz, 1216 UTC, 13-01: 837 3 835 1060 9410 0808 8914  
9410 7579 tone, IO, YL, 8 rptd, EOM

6140 kHz, 1030 UTC, 14-01: 675 89 tone, YL, carrier QRT  
1054z. Carrier sessions since 0844 UTC



---

6140 kHz, 0914 UTC, 15-01: 950 3011 6666 6660 1267 7186 8702 3750 0781 8423 6728 6660 WinXP "dings", tone, YL, EOM, carrier

---

6140 kHz, 0944 UTC, 15-01: 350 6668 6660 2060 0048 1624 6660 carrier i.p., WinXP "dings", tone, IO, YL, EOM

---

6140 kHz, 0959 UTC, 15-01: 570 5636 5066 9508 0828 3951 9929 tone, YL, EOM

---

6140 kHz, 0814 UTC, 16-01: 185 8494 6060 1324 6586 3938 7261 7903]0817z tone, YL

---

6140 kHz, 0829 UTC, 16-01: 701 1011 1310 2280 7658 5749 3675 1119 1310]0835z tone, YL

---

6140 kHz, 0929 UTC, 16-01: 133 9755 8304 9199 4853 9499 135 71]0934z, tone, YL

---

6140 kHz, 1136 UTC, 16-01: Ahwak at least twice, WinXP "dings", low audio, 1148z tone till at least 1200z

---

9450 kHz, 1216 UTC, 16-01: 837 835 2080 5540 8977 2381 2017 6996 5540 4757]1224z, tone 1210z, IO, QRT 1232z

---

9450 kHz, 1214 UTC, 17-01: 883 7 5 837 835 837 835 (rep..) 835 2080 5540 8977 2381 2017 6996 5540 4757 Tone, Song, YL

---

9450 kHz, 1348 UTC, 17-01: 222 7110 2090 0240 2772 3517 7408 2811 8082 0240

---

6140 kHz, 0930 UTC, 17-01: 133 135 71 z tone, YL

---

6140 kHz, 1045 UTC, 17-01: 128 4561 1060 7120 9250 6685 7120 tone, YL

---

9450 kHz, 1214 UTC, 17-01: 837 835 tone, IO, YL

---

9450 kHz, 1345 UTC, 17-01: 222 7110 2090 0240 2772 3517 7408 2811 8082 0240 tone, IO, YL

---

6140 kHz, 0800 UTC, 18-01: 360 8560 6110 6012 7457 6110 1007 tone, YL, 360 twice then 361, carrier, tone

---

6140 kHz, 0827 UTC, 18-01: 702 23 tone, YL, Mx3, Rx3, EOM

---

6140 kHz, 1045 UTC, 18-01: 128 tone, YL, EOM, low power

---

6140 kHz, 1050 UTC, 18-01: 128 YL, EOM, a bit louder

---

9450 kHz, 1211 UTC, 18-01: 88 835 837 ... MSG MSG 3051 4410 5157 4678 4970 1562 6690 8512 3815 4127 7836 3965 7615 4410 4774

---

9450 kHz, 1225 UTC, 18-01: 835 837 ... MSG ... EOM

---

6140 kHz, 0803 UTC, 19-01: 364 11 YL i.p., Mx3, Rx3, EOM EOT

---

9450 kHz, 1212 UTC, 19-01: 835 837 tone, IO, YL, 837 rptd, EOM

---

9450 kHz, 1214 UTC, 19-01: 837 2015 4410 5157 467? 4970 1562 ?790 751? .... YL

---

6140 kHz, 1043 UTC, 21-01: YL 128 128 128... MESSAGE MESSAGE MESSAGE 9766 2001 8020 8859 8844 2009 6605 7266 9854 8020 REBEAT REBEAT REBEAT 9766 2001 8020 8859 9766 2001 8020 8859 EOM Windows ding, 1037 UTC Windows sound, 1038 UTC 7 Windows sounds

---

9450 kHz, 1345 UTC, 21-01: "Arouh li Meen" 227 1, YL WinXP shutdown 1353z

---

6140 kHz, 0902 UTC, 22-01: 111 5251 8661 3041 0155 8637 3075 6805 9982 1432 1153 6169 5487 9489 8661, 0908 UTC: YL 755 86, tone, YL, EOM, brief tone

---

6140 kHz, 1052 UTC, 22-01: 149 51. 1055 UTC: tone, YL

---

6140 kHz, 1114 UTC, 23-01: 887 11. 1120 UTC: tone, YL, Mx2

---

6140 kHz, 0800 UTC, 24-01: 017 92. 0805 UTC: carrier, very low music, WinXP sounds i.p. 0750 UTC:, tone, YL, Mx3,

---

9450 kHz, 1316 UTC, 24-01: 780 7949 4001 8011 9897 9637 6209 5948 9025 8249 8011. 1322 UTC: buzz, tone, YL clg 169, tone YL clg 780, msg

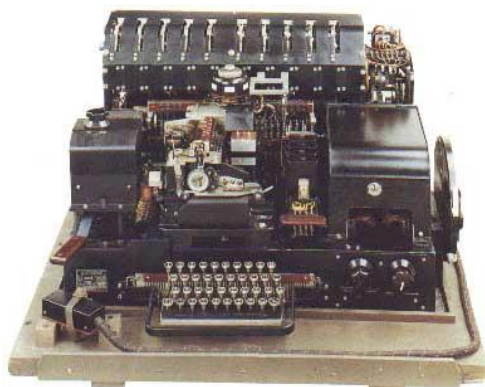
---

9450 kHz, 1315 UTC, 25-01: 780. 1320 UTC: carrier, 1300 UTC: "Spider Solitaire" sounds, tone, YL, EOM

---

6140 kHz, 0844 UTC, 26-01: 162 82. 0848 UTC: YL i.p., Mx3, QRT

---



**Siemens Geheimschreiber T52.**  
Used by the Deutsche Wehrmacht  
(German military) in World War II.



## G06



5363 kHz, 23-01, 0800 UTC:

348 115

58300 16404 66766 36043 00437 28006 40861 35703 08778 99143  
44236 98394 01329 82294 79165 91821 80862 27525 23562 81966  
17699 90401 98916 20206 47360 20717 61945 07561 43545 89036  
01820 38468 90418 19059 41926 47436 53702 69944 51785 52022  
95994 47434 27499 48182 89920 97667 59155 72956 30564 04534  
05675 98573 87047 91197 06459 83670 29669 45653 44296 91358  
43056 17433 55826 89799 06349 63328 36835 10139 70226 01196  
37332 76519 22693 64930 98874 31457 84407 25578 32687 18115  
06065 45287 37547 23041 20593 56142 14544 23403 73245 57838  
69017 25214 97409 49664 15659 20281 54867 15774 20053 14410  
42171 17684 54675 08940 43425 04976 43944 15817 96232 29951  
89782 63364 59616 44723 96142  
348 115 00000

3754 kHz, 09-01, 1707 UTC: Test count 1234567890

4792 kHz, 13-01, 1930 UTC:

436 818 15

65754 75786 76890 64346 65768 76897 64356 76892  
76897 76879 76589 29867 42345 65478 65456  
818 15 00000

## G11



6488 kHz, 09-01, 0940 UTC: 275/00

6480 kHz, 12-01, 0940 UTC: 270/00

4441 kHz, 13-01, 2000 UTC: 262/00

6433 kHz, 14-01, 1325 UTC: 299/00

6433 kHz, 15-01, 1755 UTC: 270/00

6480 kHz, 16-01, 0940 UTC: 275/00

6433 kHz, 20-01, 1325 UTC: 293/36

6433 kHz, 21-01, 1325 UTC: 293/36

6480 kHz, 23-01, 0940 UTC: 278/38

6433 kHz, 24-01, 1755 UTC: 278/98

6433 kHz, 31-01, 1755 UTC: 270/00

6480 kHz, 23-01, 0940 kHz

278/38 Achtung

57297 96368 22562 80580 88604 06646 71565 50938 90971 24675  
79761 92853 97424 84844 24260 26535 05044 03703 15567 48377  
07019 03845 32023 97034 29680 76549 29337 41276 41939 18071  
31638 95443 10675 80010 62186 80464 21337 91081

Achtung -repeat msg- Ende



Two Russian spy trawlers  
condemned in the Rotterdam  
Waalhaven in the mid 1980's.

(picture Ary Boender)



## S06/S06s



7335/11830 kHz, 04-01, 0830/0840 UTC

745 913 6  
84535 50820 07144 22450 96373 56890  
913 6 00000

5310/4845 kHz, 05-01, 1400/1410 UTC  
5310/4845 kHz, 12-01, 1400/140 UTC

624 809 5  
54965 45065 51122 98224 88443  
809 5 00000

11780/12570 kHz, 06-01, 0930/0940 UTC  
11780/12570 kHz, 13-01, 0930/0940 UTC

516 297 8  
31541 64525 65019 95352 41214 45384 50255 95382 297 8  
000000

3838 kHz, 02-01, 1905 UTC: 349 349 349 00000  
3626 kHz, 07-01, 2100 UTC: 416 416 416 00000  
3192 kHz, 09-01, 1900 UTC: 349 349 349 00000  
4535 kHz, 09-01, 2215 UTC: 985 985 985 00000  
6788 kHz, 14-01, 1605 UTC: 134 134 134 00000  
6788 kHz, 21-01, 1605 UTC: 134 134 134 00000  
3838 kHz, 30-01, 1905 UTC: 349 349 349 00000  
5070 kHz, 31-01, 1500 UTC: 537 537 537 00000  
6337 kHz, 31-01, 1510 UTC: 537 537 537 00000

12365/14280 kHz, 11-01, 1000/1010 UTC

729 853 6  
15512 54502 85405 52359 53897 72891  
853 6 00000

4580/6420kHz, 11-01, 1230/1240 UTC

967 243 5 79556 47824 65249 11459 58977 243 5 00000

12155/10920 kHz, 12-01, 1200/1210 UTC

425 970 6  
67584 35456 89321 09678 62230 65657  
970 6 00000

7865/5310 kHz, 12-01, 1230/1240 UTC

314 286 5  
01928 76867 78654 34521 67691  
286 5 00000

5250/6320 kHz, 17-01, 0700/1715 UTC

374 816 5  
79491 55058 55186 68583 53189  
816 5 00000

12155/10920 kHz, 05-01, 1200/1210 UTC

425 970 6  
67584 35456 89321 09678 62230 65657  
970 6 00000

7150/8215 kHz, 06-01, 0700/0710 UTC  
7150/8215 kHz, 13-01, 0700/0710 UTC

196 802 5  
73574 74501 45510 48743 53224  
802 5 00000

8420/10635 kHz, 09-01, 1300/1310 UTC

831 925 6  
84029 66633 88274 15863 65224 37578  
925 6 00000

5070/6337 kHz, 10-01, 1500/1510 UTC

537 418 6  
84403 55345 44135 49154 46531 17531  
418 6 00000

7030/6305 kHz, 11-01, 1200/1210 UTC

481 297 5  
48490 96555 52595 77715 92508  
297 5 00000

12852/13565 kHz, 05-01, 0900/0910 UTC  
12852/13565 kHz, 12-01, 0900/0910 UTC

167 289 5  
06761 54545 11718 66545 68520  
289 5 00000

8530/7520 kHz, 11-01, 1900/1910 UTC

371 509 6  
25594 55094 53555 97554 55833 33577  
509 6 00000

7436/6668 kHz, 16-01, 1600/1610 UTC  
7436/6668 kHz, 23-01, 1600/1610 UTC

176 203 5  
54965 45055 51122 98224 33445  
203 5 00000

5070/6337 kHz, 17-01, 1500/1510 UTC  
5070/6337 kHz, 24-01, 1500/1510 UTC

537 802 6  
24517 67470 91912 34539 58651 52359  
802 6 00000



10265/9135 kHz, 17-01, 0800/1810 UTC  
10265/9135 kHz, 24-01, 0800/1810 UTC

352 804 6  
81726 56324 01988 67854 22067 19846  
804 6 00000

12365/14280 kHz, 18-01, 1000/1010 UTC  
12365/14280 kHz, 25-01, 1000/1010 UTC

729 482 6  
67534 34327 67585 89563 56563 89812  
482 6 00000

11780/12570 kHz, 20-01, 0930/0940 UTC

516 983 7  
94515 28375 79504 53529 75235 54951 12050  
983 7 00000

6880/7840 kHz, 25-01, 0820/0830 UTC

471 906 5  
78563 45215 79806 34216 67452  
906 5 00000

11780/12570 kHz, 20-01, 0930/0940 UTC  
11780/12570 kHz, 27-01, 0930/0940 UTC

516 983 7  
94515 28375 79504 53529 75235 54951 12050  
983 7 00000

7335/11830 kHz, 18-01, 0830/0840 UTC

745 238 6  
67656 90895 34215 67453 89777 44511  
238 6 00000

8530/7520 kHz, 18-01, 1900/1910 UTC

371 528 6  
39674 66442 47392 99451 18212 34598  
528 6 00000

8420/ 10635 kHz, 23-01, 1300/1310 UTC:

831 409 5  
73534 74501 45510 48743 53224  
409 5 00000

5810/6770 kHz, 24-01, 1230/1240 UTC:

278 931 5  
45011 98224 88445 12854  
931 5 00000

6668 kHz, 02-01, 1610 UTC:

176 293 5  
84588 48102 44029 46311 23124  
293 5 00000  
Windows XP shutdown sound

## S11a



12530 kHz, 05-01, 1015 UTC: 475/00  
7504 kHz, 06-01, 0915 UTC: 484/00  
9610 kHz, 06-01, 1020 UTC: 427/00  
12530 kHz, 09-01, 1015 UTC: 475/33  
6433 kHz, 11-01, 1020 UTC: 221/00  
7504 kHz, 13-01, 0915 UTC: 484/00  
9610 kHz, 13-01, 1020 UTC: 427/00  
6433 kHz, 14-01, 1020 UTC: 221/00  
12530 kHz, 16-01, 1015 UTC: 475/00  
4441 kHz, 16-01, 1355 UTC: 254/00  
7504 kHz, 17-01, 0915 UTC: 484/37  
9610 kHz, 17-01, 1020 UTC: 427/00  
6433 kHz, 18-01, 1020 UTC: 221/00  
12530 kHz, 19-01, 1015 UTC: 475/00  
9610 kHz, 20-01, 1020 UTC: 427/00  
4441 kHz, 23-01, 1355 UTC: 254/00  
9610 kHz, 24-01, 1020 UTC: 427/33  
9610 kHz, 27-01, 1020 UTC: 427/33

9610 kHz, 24-01, 1020 UTC: 4267/33  
9610 kHz, 27-01, 1020 UTC: 4267/33

427/33 Vnimanie  
38680 55910 57555 53053 33131 21996 72668 55501 03329 92463  
95521 07152 59736 16085 68411 06925 73416 94055 26659 09652  
55181 91224 56685 74893 39950 03568 47301 56881 55723 73847  
85856 35839 39717  
Vnimanie  
Repeat message  
Konec



## S21



4441 kHz, 23-01, 1355 UTC: 254/00

9610 kHz, 24-01, 1020 UTC: 426(7?)/33

## S28 family

(S28, S30, S32, M32, S5426, S6930)



It looks like 2 January was used for a readiness exercise. Logs by: Avare & Ary

3725 M32 1325 02-01-2012 xxx wegi 38361 amanit  
3082 M32 1333 02-01-2012 8254 k  
3725 M32 1333 02-01-2012 xxx rgt77 34426 umeredienie 7085 4179 k  
3756 S30 1333 02-01-2012 8S1Shch 71 304 GASTRANA 02 88 83 02 Priyom  
4625 S28 1337 02-01-2012 MDZhB 80 902 ChERPAL'ShchIK 41 46 67 06  
3828 S32 1338 02-01-2012 Al'fa 45 25 670 KRICHITIONIT 45 13 27 86 Priyom  
3828 S32 1340 02-01-2012 Dlya Utyos 94 Penza 07 Stazhyor 29 Kak slyshno? Priyom  
4625 S28 1341 02-01-2012 MDZhB 96 373 VEROGRAFIN 57 10 72 09  
4625 S28 1358 02-01-2012 MDZhB 58 504 ZERNOFURAZh 37 11 03 28  
3756 S30 1400 02-01-2012 8S1Shch 22 569 SOChEL'NICA 65 49 91 34 Priyom  
3828 S32 1404 02-01-2012 Al'fa 45 04 501 IRISKA 87 60 16 28 Priyom  
4625 S28 1405 02-01-2012 MDZhB 30 677 KERNIT 22 05 59 41

## S28

### The Buzzer / UVB-76 / MDZhB



After a slow start, S28 ended the month with two busy days. Nine on 26-1 and 5 on 27-1. A number of them were in the new formats.

02-01	1341	MDZhB 96 373 Verografin 58 10 72 49
02-01	1358	MDZhB 58 504 Zernofurazh 37 11 03 28
02-01	1405	MDZhB 30 677 Kernit 22 05 59 41
06-01	1150	MDZHB 74 267 Berilit 76 50 28 87
12-01	0835	MDZhB 35 251 Verdon 76 04 02 13
12-01	1025	MDZhB 72 179 Petesushchka 29 77 82 68
14-01	0915	"Allo Allo" on the same channel
15-01	1448	MDZhB 58 481 PERENOSNIK 07 76 65 52 BEREZOVAN 03 69 47 82
15-01	1459	MDZhB 62 016 BEREZOVITcA 2963 2439
22-01	1543	MDZhB 74 124 Keimicin 90 29 45 76
25-01	1521	MDZhB 94 527 Bezserdie 99 89 96 04
25-01	1526	MDZhB 20 306 Rezkii 56 01 85 20
26-01	0115	MDZhB Vsemirnyj 02 54
26-01	0120	MDZhB Brylena 75 43



26-01	0347	MDZhB Stenvok 529 371
26-01	1320	MDZhB 67 627 Bezlobnyj 10 68 02 87
26-01	1322	MDZhB 81 704 Gezel 37 24 13 58
26-01	1324	MDZhB 92 343 Tsezarizle 34 56 07 09
26-01	1342	MDZhB 91 970 Mezhpulosje 03 97 33 21
26-01	1350	MDZhB 48 886 Medsestra 65 85 40 03
26-01	1354	MDZhB 45 764 Medovka 62 60 25 45
27-01	0225	MDZhB Artsa 00 64
27-01	0455	MDZhB Stendovik 49 838
27-01	1101	MDZhB Priamoj 66 29
27-01	1408	MDZhB Steka 663 676
27-01	1457	MDZhB Vselennaja 67 90
28-01	1329	MDZhB 73 569 Meditsel 74 30 25 32

#### Notes:

The letter "E" is always the second letter of the old format in January.

On 26 January a new message format was introduced.

## S30 – The Pip



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

Tucana produced an excellent S30 profile which can be found in the Profiles section of the N&O website and also on the Priyom.org website ([http://priyom.org/media/56944/the\\_pip\\_dossier.pdf](http://priyom.org/media/56944/the_pip_dossier.pdf)). My compliments!!! The profile counts 27 pages which is a bit too long to include here, so I will only quote several parts of Tucana's report and the logs below.

Most of the logs were provided by Tucana and several by Avare. The original logs in Cyrillic can be found in the profile. Check the N&O website also for S30 recordings.

#### QUOTE

##### *History*

*Due to the clandestine nature of these stations not very much is known about its history or even its activity for the large part of its existence.*

*Some history however can be pieced together from old newsletters and logs and is presented here to the best of my knowledge.*

##### *Early days and ENIGMA classification*

*Pip has been verifiably heard by shortwave listeners in the late 1980's, and some Russian sources say that the station has been active even before this, but up to 1986 it worked without broadcasting a constant sound.*

*Pip was first featured in the Enigma newsletter in May 1994 but it went without a classification till mid-1998 when it was given the designation XT. When the first voice messages were heard in July 1999 the designation was changed to S30 (Ary Boender, personal communication, 15.01.2012).*

##### *Pip's location*

*Pip, like all military stations, is kept clandestine by its operators for obvious reasons. Where there are secrets there is speculation and it is difficult to find where the truth lies and what sources can be trusted. I will present two cases here and let you decide who is correct.*



1. The International Telecommunications Union (ITU) - A specialized agency of the United Nations tasked to monitor and regulate the radio-frequency spectrum internationally.
2. WikiMapia - A website founded in 2006 where everyone is free to register and edit or create new places on a map overlay. The transmitter site was found on WikiMapia and posted on Radioscanner.ru, a Russian radio enthusiast forum where another user who claims to have worked at Pip in an official capacity confirmed this information and gave coordinates for the separate receiving station.
3. Newest posts quote the location of the transmitter site to be in Rostov-on-Don (47°17'58"N 39°40'26"E). The transmitter site coordinates originate from WikiMapia, but the Radioscanner poster does not know who has entered them on the map service. User "rw6hrm" confirms the location information and adds that a separate receiving station is located in 47°19'37"N 39°45'12"E.

UNQUOTE

Sample in Cyrillic and Latin characters and translated in English:

Для 81БР М7КС ПМВ5 ЛЬГЙ ТЩЩС ВКЫ1 ХЦЛФ 61ХЖ ЗБИЛ Л7О5 как слышно? как слышно? Приём

Dlya 81BR M7KS PMV5 L'GJ TShchShchS VKY1 HTcLF 61HZh ZBIL L7O5 Kak slyshno? Kak slyshno? Priyom

For 81BR M7KS PMV5 L'GJ TShchShchS VKY1 HTcLF 61HZh ZBIL L7O5 How do you read? How do you read? Over!

Freq.	Date	UTC	Message
5448	01-01	0734	Dlya CIHS Zh1TR Z7PM 'O6P JH'J DMC3 49FT C2ZA LI27 INNC
3756	01-01	1639	Dlya VTH3 AGDT 'U1B OSOG BO6C F56Shch 9GSA ZhBZU 4RVZ 3VS'
3756	02-01	0400	Dlya DKJ1 6I2Zh ZhD9V SJ5C 62BV 81BR M7KS PMV5 L'GJ TShchShchS
5448	02-01	0710	Dlya VKY1 HCLF 61HZh ZBIL L7O5 V'Z' NLCYe V2MZ SB7Z TAZ7
3756	02-01	1333	8S1Shch 74 304 GASURANA 02 88 87 02
3756	02-01	1400	8S1Shch 22 659 SOChYeD'NICA 55 49 91 34
3756	02-01	1746	Dlya 'MSV YGJ' 12CI 79AJ P'HSch 6YeHB CP3' ShchT3O CIHS Zh1TR
3756	03-01	0306	Dlya Z7PM 'O6P JH'J DMC3 49FT C2ZA LI27 INNC ShchGJP 8CSchJ
3756	03-01	1639	Dlya 'U1B OSOG BO6C F56Shch 9GSA ZhBZU 4RVZ 3VS' DKJ1 6I2Zh
3756	04-01	0406	Dlya ZhD9V SJ5C 62BV 81BR M7KS PMV5 L'GJ TShchShchS VKY1 HCLF
5448	04-01	1136	Unreadable (Dlya)
5448	04-01	1249	8S1Shch 76 815 STYDLIVEC 40 43 27 89
3756	04-01	1430	Dlya 8MUO TUZR 5J7Shch 27Shch' N1DU 53OB 78MV A3PS 'MSV YGJ'
3756	04-01	1744	Dlya 12CI 79AJ P'HSch 6YeHB CP3' ShchT3O CIHS Zh1TR Z7PM 'O6P
5448	05-01	0453	Dlya JH'J DMC3 49FT C2ZA LI27 INNC ShchGJP 8CSchJ TZLM FY5Ye
5448	05-01	0601	Dlya F61N 37CN MUDR 7VNSch Zh7NZh YMA5 VTH3 AGDT 'U1B OSOG
3756	05-01	1407	8S1Shch 38 050 STRUKTURA 64 95 80 04
3756	05-01	1648	Dlya 62BV 81BR M7KS PMV5 L'GJ TshchShchS VKY1 HCLF 61HZh ZBIL
3756	06-01	0353	Dlya L7O5 V'Z' NLCYe V2MZ SB7Z TAZ7 PYCM Y8VM 8MUO TUZR 5J7Shch
5448	06-01	0909	Unreadable (Dlya)
5448	06-01	1243	Dlya 6YeHB CP3' ShchT3O CIHS Zh1TR Z7PM 'O6P JH'J DMC3 49FT
3756	06-01	1716	Dlya C2ZA LI27 INNC ShchGJP 8CSchJ TZLM FY5Ye F61N 37CN MUDR
3756	07-01	0343	Dlya 7VNSch Zh7NZh YMA5 VTH3 AGDT 'U1B OSOG BO6C F56Shch 9GSA
5448	07-01	0655	Dlya ZhBZU 4RVZ 3VS' DKJ1 6I2Zh ZhD9V SJ5C 62BV 81BR M7KS
3756	07-01	1709	Dlya V2MZ SB7Z TAZ7 PYCM Y8VM 8MUO TUZR 5J7Shch 27Shch' N1DU
3756	08-01	0417	Dlya 53OB 78MV A3PS 'MSV YGJ' 12CI 79AJ P'HSch 6YeHB CP3'
3756	08-01	1734	Dlya INNC ShchGJP 8CSchJ TZLM FY5Ye F61N 37CN MUDR 7VNSch Zh7NZh
3756	08-01	1920	Dlya YMA5 VTH3 AGDT 'U1B OSOG BO6C F56Shch 9GSA ZhBZU 4RVZ
5448	09-01	0556	Dlya 3VS' DKJ1 6I2Zh ZhD9V SJ5C 62BV 81BR M7KS PMV5 L'GJ
5448	09-01	0710	8S1Shch 68 669 AVTOSCEPKA 43 21 81 19



5448	09-01	1119	Dlya TshchShchS VKY1 HCLF 61HZh ZBIL L7O5 V'Z' NLCYe V2MZ SB7Z
3756	09-01	1335	Dlya TAZ7 PYCM Y8VM 8MUO TUZR 5J7Shch 27Shch' N1DU 53OB 78MV
3756	10-01	0343	Dlya A3PS 'MSV YGJ' 12CI 79AJ P'HShch 6YeHB CP3' ShchT3O CIHS
5448	10-01	0737	Unreadable (Dlya)
5448	10-01	1236	Unreadable (Dlya)
3756	10-01	1734	Dlya AGDT 'U1B OSOG BO6C F56Shch 9GSA ZhBZU 4RVZ 3VS' DKJ1
3756	11-01	0358	Dlya 6I2Zh ZhD9V SJ5C 62BV 81BR M7KS PMV5 L'GJ TshchShchS VKY1
3756	11-01	1525	Dlya Y8VM 8MUO TUZR 5J7Shch 27Shch' N1DU 53OB 78MV A3PS 'MSV
3756	11-01	1752	Dlya YGJ' 12CI 79AJ P'HShch 6YeHB CP3' ShchT3O CIHS Zh1TR Z7PM
3756	12-01	0356	Dlya 'O6P JH'J DMC3 49FT C2ZA LI27 INNC ShchGJP 8CSchJ TZLM
5448	12-01	0722	Unreadable (Dlya)
5448	12-01	0832	Unreadable (8S1Shch)
3756	12-01	1647	Dlya OSOG BO6C F56Shch 9GSA ZhBZU 4RVZ 3VS' DKJ1 6I2Zh ZhD9V
3756	12-01	1750	Dlya SJ5C 62BV 81BR M7KS PMV5 L'GJ TshchShchS VKY1 HCLF 61HZh
5448	13-01	0648	Dlya TUZR 5J7Shch 27Shch' N1DU 53OB 78MV A3PS 'MSV YGJ' 12CI
3756	13-01	1704	Dlya DMC3 49FT C2ZA LI27 INNC ShchGJP 8CSchJ TZLM FY5Ye F61N
3756	14-01	0401	Dlya 37CN MUDR 7VNSch Zh7NZh YMA5 VTH3 AGDT 'U1B OSOG BO6C
3756	14-01	1458	Dlya 81BR M7KS PMV5 L'GJ TshchShchS VKY1 HCLF 61HZh ZBIL L7O5
3756	14-01	1918	Dlya V'Z' NLCYe V2MZ SB7Z TAZ7 PYCM Y8VM 8MUO TUZR 5J7Shch
3756	15-01	0414	Dlya 27Shch' N1DU 53OB 78MV A3PS 'MSV YGJ' 12CI 79AJ P'HShch
5448	15-01	1240	Unreadable (8S1Shch)
3756	16-01	0408	Dlya ZhBZU 4RVZ 3VS' DKJ1 6I2Zh ZhD9V SJ5C 62BV 81BR M7KS
5448	16-01	0816	Unreadable (Dlya)
3756	16-01	1733	Dlya 53OB 78MV A3PS YGJ' 12CI 79AJ P'HShch 6YeHB CP3' 'MSV
3756	17-01	0328	Dlya ShchT3O CIHS Zh1TR Z7PM 'O6P JH'J DMC3 49FT C2ZA LI27
5448	17-01	0609	Dlya INNC ShchGJP 8CSchJ TZLM FY5Ye F61N 37CN MUDR 7VNSch Zh7NZh
5448	17-01	1252	Dlya YMA5 VTH3 AGDT 'U1B OSOG BO6C F56Shch 9GSA ZhBZU 4RVZ
3756	17-01	1737	Dlya 3VS' DKJ1 6I2Zh ZhD9V SJ5C 62BV 81BR M7KS PMV5 L'GJ
5448	18-01	0436	Dlya TshchShchS VKY1 HCLF 61HZh ZBIL L7O5 V'Z' NLCYe V2MZ SB7Z
3756	18-01	1644	Dlya A3PS 'MSV YGJ' 12CI 79AJ P'HShch 6YeHB CP3' ShchT3O CIHS
3756	19-01	0416	Dlya Zh1TR Z7PM 'O6P JH'J DMC3 49FT C2ZA LI27 INNC ShchGJP
5448	19-01	0601	8S1Shch 21 681 PEREKATKA 34 16 05 28
3756	19-01	1705	Dlya AGDT 'U1B OSOG BO6C F56Shch 9GSA ZhBZU 4RVZ 3VS' DKJ1
3756	19-01	1748	Dlya 6I2Zh ZhD9V SJ5C 62BV 81BR M7KS PMV5 L'GJ TshchShchS VKY1
3756	20-01	0301	Dlya HCLF 61HZh ZBIL L7O5 V'Z' NLCYe V2MZ SB7Z TAZ7 PYCM
3756	20-01	1741	8S1Shch 05 937 KAVARDAK 73 94 52 03
3756	20-01	1854	Dlya 'O6P JH'J DMC3 49FT C2ZA LI27 INNC ShchGJP 8CSchJ TZLM
3756	21-01	0329	Dlya FY5Ye F61N 37CN MUDR 7VNSch Zh7NZh YMA5 VTH3 AGDT 'U1B
5448	21-01	0604	Dlya OSOG BO6C F56Shch 9GSA ZhBZU 4RVZ 3VS' DKJ1 6I2Zh ZhD9V
3756	21-01	1817	Dlya ZBIL L7O5 V'Z' NLCYe V2MZ SB7Z TAZ7 PYCM Y8VM 8MUO
3756	22-01	0313	8S1Shch 73 373 VDYeVANIE 84 56 22 35
3756	22-01	0405	Dlya TUZR 5J7Shch 27Shch' N1DU 53OB 78MV A3PS 'MSV YGJ' 12CI
3756	22-01	2027	Dlya 37CN MUDR 7VNSch Zh7NZh YMA5 VTH3 AGDT 'U1B OSOG BO6C
5448	23-01	0450	Dlya F56Shch 9GSA ZhBZU 4RVZ 3VS' DKJ1 6I2Zh ZhD9V SJ5C 62BV
3756	23-01	1706	Dlya 27Shch' N1DU 53OB 78MV A3PS 'MSV YGJ' 12CI 79AJ A3PS
3756	24-01	0424	Dlya 6YeHB CP3' ShchT3O CIHS Zh1TR Z7PM 'O6P JH'J DMC3 49FT
5448	24-01	0648	Dlya C2ZA LI27 INNC ShchGJP 8CSchJ TZLM FY5Ye F61N 37CN MUDR
3756	24-01	1458	Dlya 7VNSch Zh7NZh YMA5 VTH3 AGDT 'U1B OSOG BO6C F56Shch 9GSA
3756	24-01	1725	Dlya ZhBZU 4RVZ 3VS' DKJ1 6I2Zh ZhD9V SJ5C 62BV 81BR M7KS
5448	25-01	0500	Dlya PMV5 L'GJ TshchShchS VKY1 HCLF 61HZh ZBIL L7O5 V'Z' NLCYe
5448	25-01	0601	8S1Shch 39 711 GLIZANTIN 26 27 33 93
5448	25-01	0747	Dlya V2MZ SB7Z TAZ7 PYCM Y8VM 8MUO TUZR 5J7Shch 27Shch' N1DU
3756	25-01	1509	8S1Shch 77 947 BELANDE 88 42 01 50
3756	25-01	1734	Dlya ShchT3O CIHS Zh1TR Z7PM 'O6P JH'J DMC3 49FT C2ZA LI27



5448	26-01	0448	Dlya INNC ShchGJP 8CSchJ TZLM FY5Ye F61N 37CN MUDR 7VNSchh Zh7NZh
5448	26-01	0603	8S1Shch 49 899 OKRUZHAN 28 84 31 57
3756	26-01	1315	8S1Shch ?? ?45 MORYeUZ 36 87 29 85
3756	26-01	1354	8S1Shch 70 465 OTDyeLOChNIK 57 76 62 41
5448	27-01	0442	Dlya L'GJ TshchShchS VKY1 HCLF 61HZh ZBIL L7O5 V'Z' NLCYe V2MZ
5448	27-01	0500	8C1Shch 63 007 GALAD'Ya 68 43 83 69 MOTOVAGON 49 44 39 45
5448	27-01	1336	Unreadable (Dlya)
3756	27-01	1607	Dlya 78MV A3PS 'MSV YGJ' 12CI 79AJ P'HSchh 6YeHB CP3' ShchT3O
3756	28-01	0348	Dlya ShchGJP 8CSchJ TZLM FY5Ye F61N 37CN MUDR 7VNSchh Zh7NZh YMA5
3756	28-01	1732	Dlya VKY1 HCLF 61HZh ZBIL L7O5 V'Z' NLCYe V2MZ SB7Z TAZ7
3756	29-01	0417	Dlya PYCM Y8VM 8MUO TUZR 5J7Shch 27Shch' N1DU 53OB 78MV A3PS
5448	29-01	0656	Dlya 'MSV YGJ' 12CI 79AJ P'HSchh 6YeHB CP3' ShchT3O CIHS Zh1TR
3756	29-01	1435	Dlya Z7PM 'O6P JH'J DMC3 49FT C2ZA LI27 INNC ShchGJP 8CSchJ
3756	30-01	0417	Dlya 'U1B OSOG BO6C F56Shch 9GSA ZhBZU 4RVZ 3VS' DKJ1 6I2Zh
5448	30-01	1250	Unreadable (8S1Shch)
3756	30-01	1630	Dlya 61HZh ZBIL L7O5 V'Z' NLCYe V2MZ SB7Z TAZ7 PYCM Y8VM
3756	31-01	0345	Dlya 8MUO TUZR 5J7Shch 27Shch' N1DU 53OB 78MV A3PS 'MSV YGJ'
3756	31-01	1812	Dlya F61N 37CN MUDR 7VNSchh Zh7NZh YMA5 VTH3 AGDT 'U1B OSOG

## **S32 – Squeaky Wheel**



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

3828 kHz, 02-01, 1338 UTC: Alfa-45 45 25 670 Krichtonit 45 13 27 86 Priyom

3828 kHz, 02-01, 1340 UTC: Dlya Utios-94 Penza-07 Stazhor-29 Kak slyshno? Priyom.

3828 kHz, 02-01, 1404 UTC: Alfa-45 45 04 501 Iriska 87 60 16 28 Priyom

5473 kHz, 12-01, 1029 UTC: Al'fa45 31 396 Orientaciya 27 13 37 70 Priyom

3828 kHz, 15-01, 1504 UTC: Alfa45 46 551 Grejtonit 49 91 63 99 (Pip -S30- in background)

3828 kHz, 26-01, 1315 UTC: Al'fa45 Al'fa45 05 088 IPOKRIT 69 19 05 60 Priyom

3828 kHz, 26-01, 1358 UTC: Al'fa45 41 644 VPLYTIE 68 74 47 11 Priyom

Check the N&O website for some of the S32 recordings.

## **S6930**

The last one from 2011. Logged by ScanSweden.

6930 kHz, 27-12-1011, 0749 UTC: Katok msg



## V02a - DGI



Although we don't get many logs of the Cuban stations lately, that doesn't mean that they are off the air. They are still quite active.

5883	0732	07-01	In progress
5898	0803	07-01	Atencion 5FGs
5883	0700	14-01	Atencion 13632 28761 16231 LG 26607
5883	0700	12-01	Atencion 47811 22402 26121 ...
5883	0700	26-01	Atencion 45001 62321 18461
5898	0800	26-01	Atencion 45001 62321 18461
12180	1900	26-01	Too weak to copy
13379	2000	26-01	Too weak to copy
5898	0800	31-01	Atencion 84471 83202 14672

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## V21 – Cuban Babbler



Chris and several other dxers have reported the Cuban Babbler on 5637 kHz.

Heard on 9, 10 and 11 January, between 1400 and 1430 UTC.

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Royal Dutch navy,  
Julianadorp

(picture Ary Boender)



## V13 – New Star Broadcasting Station

星星廣播電台 Xīngxīng guǎngbò diàntái



Frequencies: 7580 and 7688 kHz.

Schedules at 0500, 0600 UTC on 7580 kHz, 0700, 0800 UTC on 7688 kHz, 1200, 1300 UTC on 7580 kHz.

On 20 January I listened a bit longer than usual and noticed ca 1 minute after the end of the transmission the PC was turned off (Windows sound) and after that the carrier went down. The same happened on the 21<sup>st</sup> so I guess it is a standard situation.

I have been looking for the possible transmitter site of V13. It is reportedly sending from a military site in Danshuei which is occasionally also used by Radio Taiwan International: 25°11'8.39"N 121°24'54.30"E





## **EV01**

Is it a hoax or for real?? That is still the question. Given the fact that it has only sent one message during the past four months, sometimes for 30 minutes in a row, it makes me wonder what this really is. Is it a fake?, Test transmissions? A training perhaps, but if so why only one 35 groups message? That doesn't make sense. After four months it started to send a second message with a new voice and a slightly different format and even more difficult to understand. It has several schedules during which the message is repeated for up to 30 minutes. Whoever is running the station is determined to get the message through. So, is it real or not and if it is a genuine one, who is behind it?

The second question is: "where does it come from?" The accent might indicate the Middle East while others say India or Pakistan. The transmissions are most of the times very strong in Southern Europe while it is usually (much) weaker in Western Europe. It is often also weak audible in Japan and California. So far I have seen only one DF and that one pointed towards the Uzbekistan/Afghanistan area, crossing the Ukraine which is also a possibility.

### **EV01 station profile:**

Language:	English
Voice:	Male and female synthesized voices
Location:	Possibly Middle East / Ukraine / Uzbekistan / Afghanistan
Mode:	AM and USB
Frequencies:	10400, 11000, 13400, 16000 kHz
Schedules:	Not clear yet. Copied at 0400 and 0540 UTC, but most of the time between 1430 and 1630 UTC. Often 3 transmissions in a 3 hours period.
Preamble:	GR35 NO125 (Golf Romeo three five November Oscar one two five) Message for GR18 N912 (Message for Golf Romeo one eight November nine one two) Could be "November nine Yankee". Hard to hear.
Message:	5 letter groups. So far two different messages have been sent.  35 groups message: KLPAS BDMGC SPADM SPILB KADCC SBAPP OCMZO PADZZ SPAIK CISBK QUVAD APCNS SBAAA NOZII KKQUS CAPAA NBOKF EPFFZ PACCM SBADN KLPAS NNCOM SIKSF PCPIF MKQZF SQUFB SIMCD SPPGC MSNQU ZOIKF CEPQU VIIOA FFEKS NZPAC LOPSS  18 groups message: Unreadable
Remarks:	<ul style="list-style-type: none"><li>– Message is usually repeated several times, sometimes up to 30 minutes</li><li>– Strange pronunciation / accent/difficult to understand</li><li>– On 3-1 at least 20 minutes of classical music was played for the first time after the last message was sent. It was Strauss' Blue Danube. Also noted on several other dates</li></ul>
Recordings:	Check the N&O website for several recordings and also Token's Youtube channel.  Video of the transmission on 21-01, 1436 UTC here: <a href="http://www.youtube.com/watch?v=zQJ0uu1e0e4">http://www.youtube.com/watch?v=zQJ0uu1e0e4</a>  Video of the old voice on the same frequency here: <a href="http://www.youtube.com/watch?v=VgMwE7gvcNk">http://www.youtube.com/watch?v=VgMwE7gvcNk</a>



Logs since 26 October 2011:

16000 kHz, 0542 UTC, 26-10-2011  
16000 kHz, 1434 UTC, 20-12-2011  
16000 kHz, 1450 UTC, 24-12-2011  
11000 kHz, 1434 UTC, 31-12-2011  
11000 kHz, 1454 UTC, 31-12-2011  
11000 kHz, 1429 UTC, 01-01-2012  
11000 kHz, 1520 UTC, 01-01-2012  
11000 kHz, 1600 UTC, 01-01-2012  
11000 kHz, 1616 UTC, 01-01-2012  
10400 kHz, 1520 UTC, 03-01-2012 <sup>1)</sup>

10400 kHz, 1453 UTC, 04-01-2012 <sup>1)</sup>  
10400 kHz, 1627 UTC, 04-01-2012 <sup>1)</sup>  
10400 kHz, 1430 UTC, 07-01-2012  
10400 kHz, 0400 UTC, 08-01-2012 <sup>1)</sup>  
11000 kHz, 1515 UTC, 08-01-2012  
11000 kHz, 1530 UTC, 08-01-2012  
11000 kHz, 1502 UTC, 10-01-2012  
13400 kHz, 1505 UTC, 15-01-2012  
13400 kHz, 1540 UTC, 15-01-2012  
11000 kHz, 1433 UTC, 21-01-2012 <sup>2)</sup>  
11000 kHz, 1515 UTC, 21-01-2012 <sup>2)</sup>  
11000 kHz, 1600 UTC, 21-01-2012 <sup>2)</sup>

<sup>1)</sup> Classical music heard

<sup>2)</sup> New voice, new format. EE/YL Msg to GR18 N912, 18 5LGs.

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## **VC01 – Chinese Robot**

Chinese Air Defense network

Modes: USB and LSB .



The station changes its frequencies frequently. Frequencies: 3036, 3749, 3837, 4075, 4410, 4422, 4427, 4480, 4530, 5195, 5288, 5303, 5328, 5700, 5832, 6479, 6771, 6840, 6855, 6860, 6949, 6960, 7090, 7608, 7684, 7726, 7744, 7756, 7770, 7792, 7864, 7865, 7880, 7890, 7924, 8000, 8025, 9000, 9169, 9192, 9290, 9340, 10508 kHz.

7792 kHz, 02-01, 0704, 0816 UTC  
7792 kHz, 03-01, 0724, 0808 UTC  
3749 kHz, 03-01, 1344 UTC  
5195 kHz, 09-01, 1323 UTC  
5195 kHz, 10-01, 1331 UTC  
5195 kHz, 18-01, 0812, 1312 UTC

5195 kHz, 20-01, 1248 UTC  
5195 kHz, 21-01, 1319 UTC  
5195 kHz, 22-01, 1404 UTC  
5195 kHz, 23-01, 1310 UTC  
5195 kHz, 27-01, 1644 UTC  
5195 kHz, 30-01, 2114 UTC

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## **VC03**



6528 kHz, 10-01, 1459 UTC: Chinese oddity station with a YL repeating 4 figure groups.

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## MORSE STATIONS

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



Reported beacons and channel markers.

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

Asian Cluster Beacons: F, K, M

Channel markers:

R : 4325.9 kHz

V : 3658 kHz

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### **M01**



5810 kHz, 14-01, 1535 UTC: 798/00

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5810 kHz, 14-01, 1500 UTC:

197 229 30 =

26489 19946 28356 17517 26845 32559 63370 56916 05275 56854

55585 51986 94098 98343 10158 78860 59509 57092 84920 91726

61684 81168 16418 18016 05197 55340 77095 32465 98177 38884 =

229 30 000

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### **M03**



4828 kHz, 08-01, 0820 UTC: 761/00

5358 kHz, 14-01, 1535 UTC: 798/00

4828 kHz, 17-01, 1115 UTC: 276/24

5348 kHz, 17-01, 1140 UTC: 786/00

5358 kHz, 17-01, 1535 UTC: 797/36

4828 kHz, 18-01, 1115 UTC: 650/00

4828 kHz, 19-01, 1320 UTC: 437/00

4828 kHz, 21-01, 0820 UTC: 761/00

4828 kHz, 27-01, 0820 UTC: 761/38

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## M08a - DGI



Although we don't get many logs of the Cuban stations lately, that doesn't mean that they are off the air. They are still quite active.

5800	0626	08-01	in progress
8097	1800	25-01	28612 21131 38032
8097	1900	25-01	28612 21131 38032
5800	0600	25-01	53272 43301 65372
8096	1433	26-01	Too weak for copy)
6854	2200	26-01	40222 70822 40582. At 2209z, station changed to correct freq of 8009 kHz
8009	2200	26-01	..... 15051 54781. At 2209z, station changed to correct freq of 6854 kHz
8135	2300	26-01	40222 70822 40582
9112	1000	27-01	30602 43582 73012
8097	1400	27-01	24081 47862 63322
8097	1800	27-01	73681 61762 20581
7519	2200	27-01	21112 15801 30351
8135	2300	27-01	21112 15801 30351
5800	0600	28-01	05601 75862 56331
9063	1000	28-01	37722 65771 64322
10432	0900	30-01	31202 11622 74512 (Very weak signal)
8097	1800	30-01	61252 11002 51422
8097	1900	30-01	61252 11002 51422 (SK01 is also on this freq at this time)
5800	0600	31-01	71822 88542 50161
8096	1400	31-01	..... (Very weak, missed callups)
8135	2300	31-01	..... 68222 (In late, missed first two callups)

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## M12

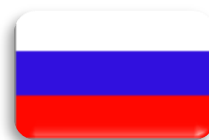


4443/5043/5843 kHz, 03-01, 0440/0500/0520 UTC

408 408 408 1 105 131 105 131  
74814 05215 17148 96137 50839 15020 72923 56894 80300 52529  
17365 36897 00541 82992 55632 56868 40669 95744 80014 77715  
19592 51491 54480 82174 73179 56278 34969 94231 06645 63877  
55169 91783 04224 07148 41136 67398 11476 28794 79267 35737  
52417 07186 94578 92217 72260 44840 19902 65508 35543 98507  
10558 18688 90432 74460 85800 92474 86161 35219 24048 57935  
51028 78723 26325 55079 03203 58110 00550 01239 48290 90060  
22656 87785 67252 55632 63898 24787 02418 73496 97848 51877  
15978 03803 56004 24982 72248 93770 49347 05628 02897 81991  
63411 64355 07186 65054 74295 91376 89716 60017 31508 01817  
52596 26115 65655 43857 07726 62912 71689 74240 45114 30746  
48848 56279 42628 96550 72708 93443 41557 08299 93875 47866  
98011 57838 57967 19826 00067 64175 85412 12103 16172 45203  
31529  
000 000



## M18



3803 kHz, 09-01, 0243 UTC: 0645 0646 etc. UTC+4 (2 mins off)  
3803 kHz, 13-01, 1940 UTC: 0140 0140 0140 etc. UTC+4  
3803 kHz, 16-01, 1622 UTC: 0230 UTC+10hrs 7 mins off  
3803 kHz, 16-01, 2013 UTC: 0230 UTC+10hrs 7 mins off  
3803 kHz, 20-01, 2306 UTC: time strings 1315 1315 1316 etc. UTC+10hrs (1 minute off)

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## M21

*Soviet Air Defence Forces*  
*Voyska Protivo Vozdushnoy Oborony*  
*Во́йска ПВО Voyska PVO*



Id "0": 3322, 4865.5, 4951.5 kHz

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## M22 – 4XZ



Reported frequencies since January 15: 2680, 2860, 4331, 4595, 6379, 6607 kHz, often parallel. I couldn't find 2860 and 4595 kHz in my databases.

4XZ has used quite some frequencies over the years but since the big changes in 2005, they only used 3 frequencies for the remaining Morse transmissions: 2680//4331//6379 kHz. So I wonder what the reason is for this sudden change. I wonder if this is somehow connected to the growing tension in the region, in particular the Iranian situation. I hear 4595 and 2860 much stronger than 4331 and 2680. The 6 MHz frequencies have about the same strength. So I guess that they are beaming in different directions.

To refresh your memory: after July 2005 most of the Morse transmissions disappeared. Only a few of them remained. The weather Bulletins and Morse messages in Hebrew Morse Code also stopped. Only the 5FGs messages remained. The navy is using a hybrid PSK system. Now that we know that the navy is using this PSK system and that the weather and Hebrew Morse messages have disappeared, the station is more and more behaving like a regular numbers station. The question has been asked many times before: "are these transmissions really naval transmissions?" Who knows, it is quite possible that someone else (Mossad??) is behind these transmissions.

Morse frequencies from 1998 – 15 January 2012

2680	4431	5200	6918	8000	8837	11170	13966	18004
2800	4441	5445	6925	8103	8924	11227	14000	18329
2922	4547	5446	6955	8135.5	9256	12948	14495	18427
3594	4796	5500	6982	8193	9264	12954	14649	18482
3700	5000	6370	7000	8303	10000	12984	14695	20736
4118	5001	6379	7500	8437	10046	13001	14931	20956
4241	5104	6607	7600	8475	10356	13514	15001	
4321	5159	6797	7939	8594	11096	13892	16059	
4331	5179	6863	7954	8672	11103	13921	17050	

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**M31**  
**French military voice/CW stations**



4595.5 kHz, 12-01, 2015 UTC: French Air Force "Calorie" station, marker tape "ceci est une emission de..."

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



Flash messages:

3725 kHz, 02-01, 1325 UTC: xxx wegi 38361 amanit  
14410 kHz, 02-01, 1331 UTC: UUU XXX XXX WEGI WEGI 72834 38361 AMANIT 3086 8204  
3725 kHz, 02-01, 1333 UTC: xxx rgt77 34426 umeredienie 7085 4179 k  
14410 kHz, 02-01, 1338 UTC: UUUU XXX XXX RGT77 RGT77 71350 92125 UMERENIE 7087 0798  
3725 kHz, 15-01, 1425 UTC: xxx xxx wegi wegi 23 234 vozduh 5864 2475 k  
3725 kHz, 15-01, 1425 UTC: xxx xxx FGT77 RGA77 71393 PALINOWYJ 7102 8414 k (probably RGT77)  
17460 kHz, 30-01, 1347 UTC: xxx xxx w6by w6by 47709 38501 bredinec 2060 1784 lopanok 7216 1219 k  
9044 kHz, 30-01, 1248 UTC: xxx xxx wegi wegi 59350 40993 podöalok 7905 4071 atriksiä 2338 8099 k  
9044 kHz, 30-01, 1253 UTC: xxx xxx rgt77 rgt77 91649 62184 stadnostx 8188 0390 k  
17460 kHz, 30-01, 1335 UTC: xxx xxx rgt77 rgt77 17687 14696 krinum 9062 5233 trias 3210 4189 k  
14411 kHz, 30-01, 1335 UTC: xxx xxx rgt77 rgt77 17687 14696 krinum 9062 5233 trias 3210 4189 k

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On January 10th we received the following interesting note from Fritz:

The cruise of a Russian inter-fleet task force around ACC Admiral Kuznetsov starting early December 2011 in Severomorsk has found much attention. Contrary to all official statements the highly political action included a visit of the Mediterranean port of Tartus (SYR). Intensive observation of Morse communications of Weather and Sea State reports on the usual channels as well as observations of ship spotters and Navy bulletins provided interesting aspects of the cruise.

Maybe the following, provisional summary is of interest although it doesn't answer all questions.



**Aircraft Carrier Admiral Kuznetsov**  
(picture by Thales)





**Auxiliary ship Ivan Bubkov (tanker)**  
(picture by Yevgeniy B.)

More trainings with firing exercises in the Eastern Mediterranean have been announced by the BSF HQ in Sevastopol, maybe together with Turkish Navy?

Please note, that - once again - the involved callsigns RKO81, RAL46 and RAL65 could not be assigned to specific ships of the task force. Furthermore not clear is the identity of RFH77, probably belonging to the BSF, which during the whole time was very active with its HQ in Sevastopol. We'll see, which callsigns will become quiet again after the cruise. And: I've not seen confirmed anywhere rumors about a submarine taking part in this cruise.

**4.12.2011 BSF frigate Ladny leaves Sevastopol for the Mediterranean Sea.**

**7.12.2011 BF frigate Yaroslav Mudry and tanker Lena leave Baltiysk heading for the North Sea.**

**NF ACC Admiral Kuznetsov leaves Severomorsk heading for the Barents Sea, shaping NF carrier group together with ASW ship Admiral Chabanenko, rescue tug Nikolai Chiker and tankers Sergei Osipov, Vyazma and Kama.**

**14.12.2011 The carrier task group seeks shelter in the Moray firth, NE of Great Britain.**

**16.12.2011 The carrier task force continues the cruise through the Atlantic.**

**21.12.2011 RN destroyer HMS York returns to Portsmouth after watching exercises of the Russian deck-based SU-33 fighters West of Ireland.**

**22.12.2011 BSF frigate Ladny pays visit to Ceuta (E). Wx and Sea State reports of RKO81 reports to RMP (Kaliningrad) from 35.7N 4.1W. RAL46 and RAL65 report position to RIT from 35.7N 4.0W.**

**23.12.2011 ACC Admiral Kuznetsov passes Gibraltar Strait and enters the Mediterranean Sea. Other ships of the task force passed the Strait before. BSF frigate Ladny joins the carrier group. RAL46 and RAL65 report to RIW from 35.8N 1.5W (off ALG).**

**25.12.2011 The carrier task force is seen off the base of Mers-el-Kebir (ALG).**

**26.12.2011 Tanker Sergei Osipov visits Valletta (MLT). RKO81 reports to RMP from 35.7N 1.7W (off ALG).**

**27.12.2011 Frigate Ladny visits Valletta (MLT).**

**29.12.2011 RAL46 and RAL65 report Wx and Sea State from 37.2N 0.2W (off Cartagena).**

**31.12.2011 RAL65 with Wx and Sea State report to RIW from 40.6N 11.1W (off Porto (POR)).**

**1.1.2012 RAL65 with position report to RIW from 39.7N 11.6W (NW off Lissabon). RKO81 with position report from 36.2N 14.7E (North of Malta).**

**2.1.2012 RAL65 with position report from 39.7N 11.1W (NW off Lissabon). RAL65 with position report from 39.8N 11.4W (NW off Lissabon). Frigate Ladny leaves Valletta. Tanker Sergei Osipov leaves Valletta. RKO81 with position report from 36.0N 16.1E (East of Malta).**

**2.1./3.1.2012 Carrier task force is "in central part of Mediterranean Sea", Air Wing is performing training flights.**

**4.1.2012 RAL65 to RIW with position report 47.0N 7.1W (Northern Biscaye). RKO81 with position report 34.6N 24.7E (South of Crete). RAL46 with position report 34.6N 26.5E (South of Crete).**



**5.1.2012 ACC Admiral Kuznetsov, ASW ship Admiral Chabanenko and frigates Yaroslav Mudry and Ladny along with supply vessels anchore South of Crete.**

**6.1.2012 Members of the Carrier Task Force perform exercices with Greek Naval Forces.**

**7.1.2012 ASW Ship Admiral Chabanenko, frigate Ladny, tanker Lena are in naval base Tartus (SYR), ACC Admiral Kuznetsov and rescue tug Nikolai Chiker have anchored.**

Jim adds to that *“Bear in mind that the additional calls do not necessarily indicate additional ships. It could well be the case that specific commanders or activities could be hosted on existing ships but have their own callsigns.”*

Notes:

RAL65 is a NF auxiliary ship. RCJG from the BSF left Sevastopol recently and joined the others. Its departure has not been communicated by the Navy however. If Fritz’s notes are correct, RCJG might have used the canal of Corinth, don't know if that is possible.

Fritz has mapped the movements of the vessels on Google Earth. I have uploaded the .kmz file to the N&O website. Check also the logs for additional info.

THANKS FOR YOUR REPORTS GENTLEMEN !!!

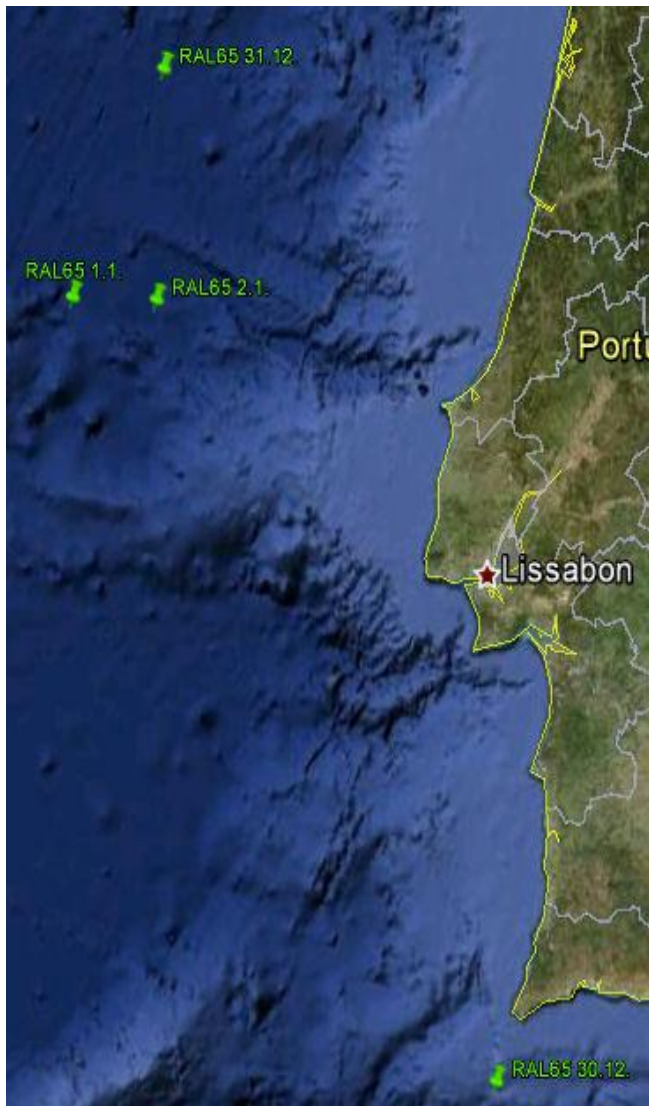
The journey mapped in Google Earth (not chronologically):











### Additional logs by Wolfgang and Tom:

Freq.	UTC	Date	Details
8345	1240	13-01	RAL65: Russian Navy. "qso RMP qtc 256 16 13 1605 256 = for rjh45 rjh74 = 13121 99585 70018 41398 ..."
12464	1208	13-01	RAL46: Russian Navy. "qso RCV qtc 217 18 13 45 217 ? for rje73 rjh45 = 13121 99379 10103 41598 ..."
8345	1243	13-01	RKO81: Russian Navy tfc to RMP/9373 rko81 = 12121 99450 10216 40283 ...
12464	1208	13-01	RAL46: Russian Navy msg RCV/10543 157 18 12 1605 157 = for RJE73 RJH45 = 12121 99361 10135 (?) ....
12464	0915	13-01	RAL65: Russian Navy clg RIT, clg RIW qtc 355 16 12 1303 355 = for rjh45 rjh74 = 12091 99581 70027 41397 ...
8345	1240	13-01	RAL65: Russian Navy wkg RMP qtc 256 16 13 1605 256 = for rjh45 rjh74 = 13121 99585 70018 41398 ...
12464	1208	13-01	RAL46: Russian Navy wkg RCV qtc 217 18 13 45 217 ? for rje73 rjh45 = 13121 99379 10103 41598 ...
12464	1710	13-01	RAL65: Russian Navy wkg RMP/5213
10543	1000	13-01	RCV: Russian Navy Sevastopol qso RFH77 qwh 12485/8322 k
12464	0710	14-01	RFH77: Russian Navy "RCV de RFH77 ok qyt4 qls k"
8345	1210	14-01	RAL46: Russian Navy Msg to RCV: 876 = for rje73 rjh45 = 14121 99362 10145 41598 ... + ral46 k
9373	1005	14-01	RMP: Russian Navy Kaliningrad tfc to RAL65 648 35 15 1007 648 = sml = 11111 5523 _99334 ...
12464	1015	14-01	RKO81: Russian Navy "RMP de RKO81 qtc = for RHY47 = 11111 03165 19676 61500 ..."
10543	0905	15-01	RCV: Russian Navy Sevastopol clg RHY47 qap, RHY73 qap, RMZW qap, RKO81 qap
12464	0933	15-01	RAL46: Russian Navy qtc from RCV 648 34 15 1007 648 = sml = 11111 55239 99334 ...
12464	0929	15-01	RAL65: Russian Navy wkg RMP
12464	0945	15-01	RAL46: Russian Navy wkg RCV qsa2 qru ? ok qap
8345	1218	17-01	RAL65 wkg RIT: "RIT DE RAL65 894 16 17 1607 894 BT FOR RJH45 RJH74 BT 17121 99715 10271 ....."
8345	0605	20-01	RKO81: Russian Navy. Msg to unid "977 19 20 1000 977 = sml for rjd38 = 20061 99373 10046 41598 ..."
8345	1810	20-01	RCJG: Russian Navy. Msg to RCV "847 18 20 2205 847 = sml for rjh45 rje73 = 20181 99446 10333 41698 ..."
8345	1828	29-01	RAL65: Russian Warship "RMP de RAL65 QTC K. RAL65 571 16 29 2215 571 = FOR RJH45 RJH74 = 29181 99669 10083 41/98 820090 ... loses contact, tries RIT. RIT de RAL65 QSA? QTC K"



8345	1834	29-01	RK081: Russian Warship "RMP de RK081 QSA? QTC K. RK081 406 21 29 2200 406 = SML FOR RJD38 R_E73 = 29181 99356 7003_415_8 23106 ... 00150 29901 312// 40303 88000 29017 = + RK081 K. RK081 QRU K"
8345	1841	29-01	RAL46: Russian Warship "RIW de RAL46 QTC K. RAL46 548 17 29 2210 548 = FOR RJH74 RJH45 = 29181 99437 70117 41598 40406 10110 ... 304// 40801 29014 = + RAL46 K"
8345	0626	31-01	Russian warship RAL46 msg to RIW. "140 13 20 1010 140 = for rjh74 rjh45 = 30061 99462 70119 41/98 ..."
8345	0623	31-01	Russian warship Ivan Bubnov (RCJG) msg to RCV. "623 18 30 1000 623 = sml for rjh45 rje73 = 30061 99366 10004 41498 .."
8345	0603	31-01	Russian warship RK081 msg to RMP. "902 20 31 1000 902 = sml for rjd38 rje73 = 3061 99360 70047 41598 .... "
8345	0625	31-01	Russian warship RAL65 msg to RIW. "riw de ral65 qtc 547 16 31 1005 5847 =for rjh45 rjh74 = 31061 99615 10036 41/98 ... "
12464	0921	31-01	Russian warship RJ163 wkg RCV on 10464 kHz "qsa3 qap"



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

The stations are not as popular as a couple of years ago but luckily we still receive logs

3671 kHz, 08-01, 0140 UTC  
3671 kHz, 08-01, 2318 UTC  
3508 kHz, 09-01, 2333 UTC  
4767 kHz, 11-01, 1745 UTC  
7844 kHz, 22-01, 1704 UTC  
4646 kHz, 23-01, 0700 UTC  
5890 kHz, 23-01, 0700 UTC  
7966 kHz, 23-01, 1607 UTC  
5895 kHz, 23-01, 1607 UTC  
4459 kHz, 24-01, 2051 UTC  
5896 kHz, 27-01, 1000 UTC  
7965 kHz, 28-01, 0745 UTC  
7966 kHz, 30-01, 2153 UTC

M51 3508 kHz 2333z 09/01 Transcript:

NR 62 J 10 00:33:05 1984 BT  
YAXDH DOCAP VOZFI TGJGF VSXLB VTQLV ATSUR NSOLA QAJEI UKSIP  
MYDGG VMPPQ TMZSP VGBHX NMDUZ JFPLG IOWJD GLSWG UVWSJ NOKIR  
IRYNM VFDAH CXKSO KBFUW WALXE JRCVB LDXGF SLIML SFPUS SOWSH  
AQKFY GURWT PSCJP RHDZA CHCOR ERBTU WTUQR AUPGT GIRKW GWITV  
CJAJN ZFDMB ZVXIY KWUCU PVGWP XFSBK LDEEW QTLSD DIRFN NBVFF  
HKWRS JQKLX NLFWF UCTDJ YBDHL ECFUI EHSPE UPJWJ GNYMF PVFJV  
PCEGF VYZMV BRKGO MFLJA OZCKO HCNRW ICRSZ OGZPY AODJR PWGLQ  
TYFIM IHMXG QKNSP FIMGC WRMYJ DEGFS KUAQE BGXEX VHFPV ZYNEU  
FHKNC EKAEG XJAHE TQDXE UJFUD OKUWT OJYYJ GIQIV AYFRD JDLTW  
VVGJP HITRW YWIAD UQZKP AHKRE FIASA UGTGB HGBTA XGSGV HXDTK  
BT

M51 3617 kHz 2318z 08/01 Transcript:

NR 31 J 06 00:18:09 1984 BT  
AAPAD NYBUY LYPTW YPAGK GJWYW WUUNI ATTEF JYGFZ VHFVN WJMVN  
LDXVZ DQACT XKNBV VKIXE QOIGO RPOLQ WMAEA GKGTE MMXJL WJDHG  
FDDSK NOJKY MFJJC IRDAI ZDGCN LDVXQ FICNM SOBOU PTLNU OHGFX  
KXRWT CYZNL MYUSV OGIYV CETLG GHSOX FKKQS VCRIJ SQWWD DQYRQ  
ECBQP ANMGE WGNVQ GYHHJ JLFQY IDLXC XEKFQ FUGQT OMSFN WPAXT  
QRSTI FPKOP YETXI TNXBN VZSGZ OGMAT TTNPE LSTZE NDMBK CQDXY  
EFEPQ FVAMS KCAMF QADZL RNPMY ATUGX RWRTN SXZWB YBWUF MIPSY  
LWYNN CNUZA MTNUP HSWQG AJNTV ASFRA OMFMW ALIOE UJJZF RMQWQ  
JVGJT LOAWS IIVUK YOYFK UMDTT GBGJD HWNQG DPEOJ CYZSE MMHXE  
IEMQZ IKADE NQLSO OIMJQ KWOZZ BRTYT TQYXV APPOX DTUQY VAXRM  
BT

M51 4767kHz 1745z 11/01 Transcript:

NR 87 J 11 18:45:00 1984 BT  
PTOHX KRMGD TRZEV REWTH ORETC BOTJL VCVGE ZNJGB SZALZ TBKHU  
GLYUQ JAXFK LZECH ONGZW NLJCH GRRJG OGRNS JKLMQ LAALY UOJLL  
YHAAH SSKZH KAJVG ODJ CZ WAAEE FHYSC HHBGH IGUWQ CEVPR VLEFA  
BYGCH YCZFL RZWEF PQVND SKHEB VFJFK SYSKH IWZFT QFWYH BLPLB  
FIQFH KNQFH YZCYG JJPWJ AVMDN UBEZR VPZSJ LVGMA SHIAE CVYMQ  
SWESL GICEP EOXAE JDCPL EXHUP FWUNF HYIPO HFNVE ASMHS ZUFNZ  
FYRJH AHVHR GIDWA KEPHY CEJPP EEDLY MBSAB JPAJQ RTYNA JMMEC  
FQXYI SJUCF MBNXI EFBVO FYJFI YNLVQ WKJRR EPETA EWVTJ OMFYN  
GEQNZ PCVZP OHSNZ DNIBO WACWE CGRTG AWTGV UFQVM HJOFI RGFDD  
EZZGJ BSXUI TRCGX XJPYM BEDXF VOJHB VOJHB ZERCP ILELS YYBGJ  
BT



## M89 – Chinese military



VVV Q2M Q2M Q2M DE NYZ NYZ QSA? k	4860, 6840 10640 kHz
V 7NPE 7NPE 7NPE DE QV5B QV5B	4225, 5500, 7582, 8110 kHz
V DKG6 DKG6 DKG6 DE 3A7D 3A7D	7602, 10180 kHz
V GKVZ GKVZ GKVZ DE Q7NW Q7NW	3297, 5278 kHz
V RXP7 RXP7 RXP7 DE CZT2 CZT2	4474, 8787 kHz
V H2FL H2FL H2FL DE DRV8 DRV8	3797, 4512 kHz
V WITN WITN WITN DE GNXG GNXG	4590, 8789, 10779 kHz
V HJ4I HJ4I HJ4I DE YI4K YI4K	Not reported
V OPN9 OPN9 OPN9 DE GYVR GYVR	Not reported

Note: starting on 11 Jan 7NPE changed to 7NWI. A callsign change or a problem with the transmit equipment? This happened also in the following days but it returned to 7NPE on the 14<sup>th</sup>.

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## MC03 – Chinese Air Defense



5170 kHz, 09-01, 2028 UTC: cut number strings + local time (UTC+8)  
5170 kHz, 13-01, 1843 UTC: test string AU34567DNT TU43 (UTC+8)  
5170 kHz, 20-01, 1258 UTC: 10-count string + time marker AU34567DNT UT5D (UTC+8)

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## VARIOUS MODES

### SK01 - DGI



Although we don't get many logs of the Cuban stations lately, that doesn't mean that they are off the air. They are still quite active.

9124 0600 26-01 SK01 RDFT	9063 0900 27-01 SK01 RDFT
9063 0630 26-01 SK01 RDFT	5930 0930 27-01 SK01 RDFT
8180 0800 26-01 SK01 RDFT	8097 1900 30-01 SK01 RDFT
5947 0900 26-01 SK01 RDFT	in the background of M08a
8180 0900 26-01 SK01 RDFT	9124 0600 31-01 SK01 RDFT
5930 0930 26-01 SK01 RDFT	8063 0630 31-01 SK01 RDFT
8186 1000 26-01 SK01 RDFT	8180 0800 31-01 SK01 RDFT
7890 1030 26-01 SK01 RDFT	7890 1030 31-01 SK01 RDFT
5947 0900 27-01 SK01 RDFT	

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## M42 & X06 - Russian Government / Intelligence



19878	31-12	1230	Russian Diplo. Mode: CROWD-36
10175	02-01	0800	Russian Intel. Mode: FSK 200/1000 (ACF=288)
16115	02-01	1120	Mazielka
10175	03-01	0800	Russian Intel. Mode: FSK 200/1000 (ACF=288)
8153	03-01	0810	Russian Intel. Mode: FSK 200/1000 (ACF=288)
6807	03-01	0820	Russian Intel. Mode: FSK 200/1000 (ACF=288)
19305	03-01	1325	Russian Gov/Intel. =50= station. CW: "cfm nil .. vvv vvv cfm k .. nil sk" Mode: Baudot 50/500 + CW
14389	03-01	1400	Russian Intel. Mode: FSK 200/1000 (ACF=288)
12216	03-01	1410	Russian Intel. Mode: FSK 200/1000 (ACF=288)
10418	03-01	1420	Russian Intel. Mode: FSK 200/1000 (ACF=288)
12106	03-01	1432	Russian Gov/Intel. =50= station. Ends with tty op chat "nil sk" Mode: Baudot 50/500
13466	07-01	1413	Russian Gov/Intel. Link establishment in CW followed by rtty traffic sending a 5F msg with 50 groups =50= separator ending again in CW with CFM. Mode: CW / Baudot 1.5 stb 15/500
3240	10-01	0526	Russian Gov/Intel. Mode: RUS-ARQ 100/250
12116	10-01	1410	Russian Intel. Mode: FSK 200/1000
10418	10-01	1420	Russian Intel. Mode: FSK 200/1000
16317	10-01	1006	Mazielka. Sequence: 612534
18526	14-01	1305	Russian Gov/Intel. "576 1 00000 +++++ +++++ 162" for 5 mins. Mode: Baudot 200/500
16341	21-01	1100	Russian Intel with tfc. Test data at 1050 UTC. Mode: FSK 200/1000
14538	21-01	1110	Russian Intel with tfc. Mode: FSK 200/1000
12209	21-01	1120	Russian Intel with tfc. Mode: FSK 200/1000
9250	23-01	1540	Russian Intel. Mode: FSK 200/1000
7643	23-01	1550	Russian Intel. Mode: FSK 200/1000
3715	24-01	2100	Russian Intel. Mode: FSK 200/1000
4525	24-01	2110	Russian Intel. Mode: FSK 200/1000
6792	24-01	2200	Russian Intel. Mode: FSK 200/1000
5319	24-01	2210	Russian Intel. Mode: FSK 200/1000
4027	24-01	2220	Russian Intel. Mode: FSK 200/1000
8068	27-01	0720	Russian Intel. Mode: FSK 200/1000
16249	28-01	1027	Russian Intel. Mode: FSK 200/1000
16341	28-01	1100	Russian Intel. Mode: FSK 200/1000
14538	28-01	1110	Russian Intel. Mode: FSK 200/1000
12209	28-01	1120	Russian Intel. Mode: FSK 200/1000
18526	28-01	1300	Russian Intel. Mode: FSK 200/1000. Null msg to 576
16142	28-01	1310	Russian Intel. Mode: FSK 200/1000. Null msg to 576
14674	28-01	1320	Russian Intel. Mode: FSK 200/1000. Null msg to 576
14939	29-01	0910	Russian Intel. Mode: FSK 200/1000
12221	29-01	0920	Russian Intel. Mode: FSK 200/1000

A recording of a FSK 200/1000 transmission, made by Danix can be found on the N&O website.



## XP family



XPA, 7891/6791/5391 kHz, 10-01, 1900/1920/1940 UTC

873 873 873 1 873 873 873 1 873 873 873 1 6  
00397 00195 14968 90969 84098 72100 05064 72398 14014 23975 34735 10545 67965 20902 26516 76462 33296  
14977 71454 52912 41553 68159 52565 40149 12270 76457 86481 38588 14592 66200 73234 47781 34688 71560  
43942 35468 27365 81192 17942 59519 43605 91815 27320 53453 58337 43647 24620 65323 59306 41600 56534  
995999 96798 3460 61533 399942 0884 24685 24064 40536 73201 06604 38212 92505 32646 67592 91809 02701  
82175 90220 41639 90951 31635 48160 37483 51366 94018 77894 32165 82977 90547 42273 86501 22282 73527  
52036 24576 25582 10787 01753 38717 87786 49342 40614 20137 04244 87573 05869 96514 07432 12232 03711  
92555 33857 79142 23590 82692 27245 56868 87185 07663 82828 32004 78898 40302 59090 00737 69345 40007  
07517 51550 48839 73630 83902 50858 69494 95444 81572 64775 47870 19625 30103 51864 51201 81507 46705  
24498 66373 31434 63452 74670 27563 50074 37564 58649 10171 28269 72407 19706 17216 71999 10305 73613  
75970 78606 05360 00304 03242 40776 98244 38147 71615 44104 28139 16583 084 94 19419 62660 28438 39068  
05171 09037 24654 37642 47534 43992 47376 96611 30116 48629 80448 66203 33106 62944 31551 30867 99048  
21557 09209 13583 10080 42477 72910 40869 03329 13935 10433 37723

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XPA2, 4469/4617/5417 kHz, 10-01, 2030/2050/2110 UTC

00467 00179 50793 39272 73573 27441 69780 59028 98809 69422 07477 09755 25913 24250 45609 82259 59412  
44791 69171 59934 55618 45679 19101 56144 46610 10939 19774 55318 50655 99110 10391 75998 15146 97767  
96601 99482 18047 76237 42583 91353 37803 23037 99815 24275 98834 35377 66054 60071 58845 81791 21533  
13217 78668 40369 09836 43756 11959 77998 65548 06394 30352 68916 55291 25370 63905 97543 62104 40673  
94782 27669 84348 24583 82009 24440 07234 95844 06698 01433 34834 86168 45561 04911 50460 08266 92984  
51167 61799 27273 94999 72917 14444 84774 55295 31514 70530 31197 26404 55946 62075 60330 82380 41400  
05174 87973 41320 04618 87814 16073 01816 79686 18589 54540 68508 15837 65054 16362 75016 61381 70103  
316388 176622668 1222 5498 70696 2400 56206676551 4007 69951 26319 88141 01792 21373 9364 28396 48836  
01055 69169 59180 43002 73839 47754 32989 44023 46212 08891 92942 52206 74154 08183 07146 65310 98454  
66116 54496 08872 85206 45682 61433 96031 78818 93256 44287 20068 50312 11177 06490 05158 31775 83591  
87603 66380 33276 19144 22668 62467 43007 38693 18652 95469 64430

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XPA2, 4617/5417 kHz, 24-01, 2050/2110 UTC

884 00193 9174 19227 333221 37719 99171 73374 33674 81450 30801 33736 23471 23155 77116 88176 890777  
39527 69674885220 2615 82688 08784 74552 78129 42310 88669 14926 11435 51770 0114 75547778452 8317  
78827 30011 40433 64352 84399 23759 69450 883336 71177 30800 011448 7798 6522 6655 555633 2888744577  
13011199920 99948 66565577011 0888816113 97622 77816 78811 87208 21177768275 65633 47862 11094 15411  
66501 4450 00269 11143 10328 06649 86114 61130 07681 16685 94672 65750 53805 66847 19051 57458885858  
52881 71504 53582 57714 33662 19964 28918 12276 59600 15820 40787 15158 44925 03319 03194 65037 20445  
65447 5155 8511 61925 33491 1888237125 2664 44800 34888 4688700224 666633 4279 10622 6662 4224 44383  
31410 1766 888533 07766 0023 5991 8100 3450 99161 60195 34005 80603 11832266660 36742 80344 2311 37862  
35811171948 75443 11815 88827 36001 15244 10276 10145 74551 84326 05019 58680 36263 33944 46117 06857  
08563 63874 47616 49680 99472 09067 03606 91176 32987 42774 86144 81911 18117 58363 61446 17677 46553  
19881 51519 09088 83903 41610 62660 91117 48856 66417 09672 90176 46878 84477 95607 28166 47464 11791  
02212 45198 74089 70026 15111 18875 24027

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## UTILITY ROUND-UP

### Atom Alarm !!!



I completely forgot to mention this transmission a couple of months ago but I found my note again ☺

It is most probably a pirate station; possibly the infamous French pirate who has been quite active in the 6 MHz band. He often transmitted weird loops like this one. I have uploaded the recording to the N&O website.

Logged by Leslie on 6834 kHz, 15-09-2011 at 2309 UTC. The messages was repeated for at least 10 minutes.

Message:

“ Würstchen Alfa, hier ist Würstchen Alfa Eins. Atom Alarm, Atom Alarm”.

English translation: “Sausage Alfa, hier is Sausage Alfa One. Atom Alarm, Atom Alarm”

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### North Korea Google Earth project



When looking for some information about North Korean intelligence I also visited the website of the North Korean Economy Watch. I had heard about their Google Earth project but did not know that they had collected so much information. Very impressive!!

This is what they say about it: <http://www.nkeconwatch.com/north-korea-uncovered-google-earth>

*“This Google Earth project offers an extensive mapping of North Korea’s economic, cultural, political, and military infrastructures. Through the topic menu, users of this program have easy access to geographical information on North Korea’s agriculture projects, aviation facilities, communications, hospitals, hotels, energy infrastructure, financial services, leisure destinations, manufacturing facilities, markets, mines, religious locations, restaurants, schools, and transportation infrastructure. In addition to locations of economic interest, this map also displays anti-aircraft locations, the Demilitarized Zone (DMZ) and Northern Line Limit Line (NLL), incarceration facilities, political monuments, political residencies, military bases, and nuclear facilities. In addition to the geographical information displayed on the map, many location tabs provide links to internet resources which offer more information on the specific location. Many people have contributed to this project, and further contributions are welcome.”*

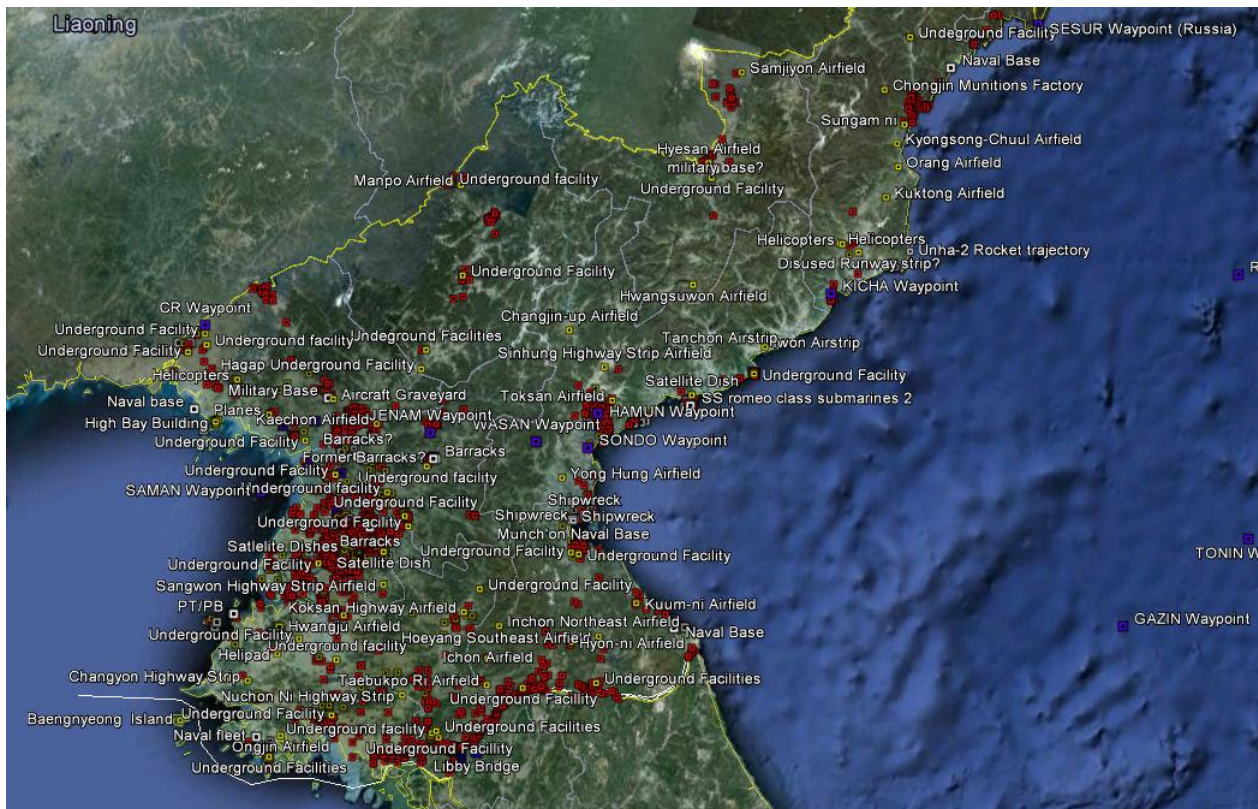
The complete KML file can be downloaded here:

<http://bbs.keyhole.com/ubb/ubbthreads.php?ubb=download&Number=794966&filename=North-Korea-Uncovered-18.kmz>

I have extracted the locations of the military bases, satellite dishes, radio towers, communication towers, TV towers, the Ministry of Foreign Affairs, the Ministry of the People’s Armed Forces and the State Security Department. **Download these .kmz files from the Download page on the N&O website.**



To give you an idea about the number of sites in the .kmz, see the picture below.



## Chinese SIGINT ?



While looking for possible M89 or Air Defense locations I found a HUGE antenna complex in China. The site is ca. 5 square km with dozens and dozens of antennas and in the middle a building complex and 5 satellite dishes.

The various antenna fields are visible near the following coordinates. I have uploaded the Google Earth .kmz file to the N&O website. The maps on Flash Earth are a little bit better than on Google Earth.

Locations:

40°30' 17.02N 116° 1' 39.01E

40°30' 2.54N 116° 1' 56.00E

40°29' 46.50N 116° 1' 40.56E

40°30' 22.76N 116° 1' 19.44E

40°29' 47.26N 116° 1' 12.99E

40°30' 3.77N 116° 1' 5.80E

40°29' 48.41N 116° 1' 56.46E

40°30' 4.63N 116° 1' 32.81E (building complex and satellite dishes)







## **Taiwan**

Isn't Google Earth great? While looking for a possible transmitter site of V13, I stumbled over a HF DF site and found the location of the large SIGINT site at on Yangmingshan Mountain, jointly owned by the Taiwanese NSB and USA's NSA. The GE picture is garbled but I found another one on Flash Earth. According to Asian Times Online a second site was set up on Wunjian Mountain near Dazhi just south of Pingtung Lee with HF antennas but I couldn't find them.

Asian Times mentions that the Pingtung Lee site has 10 antenna masts, of which six are high-frequency (HF) dipole antennas in a circular pattern for interception and direction-finding tasks. There is one radome on the base. The antenna complex on Wunjian Mountain near Dazhi has the same configuration, with an additional collection of several microwaves nearby.

Than the sites that I could find:

- SIGINT facility on Yangmingshan Mountain near Taipei at 25° 8'37.54"N 121°33'55.72"E
- Linkou HF DF site at: 25° 5'43.80"N 121°23'30.68"E

The .kmz files have been uploaded to the N&O website.



**SIGINT facility on Yangmingshan Mountain near Taipei at 25° 8'37.54"N 121°33'55.72"E**





HF DF site at: 25° 5'43.80"N 121°23'30.68"E

## Unid 3K net

I still have no clue who this is. It is a Russian net and it might be connected to the Russian Government / (military) intelligence stations (M42). The net was first reported in March 2011. Any info about this net is highly appreciated.

### *Logs history*

7696	30-03-2011	1840	Modes: CW + AM, language: English 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	14-05-2011	1914	"VVV VVV 3K". Mode: CW
11082	06-06-2011	1032	"VVV VVV VVV 3K". Mode: CW
10436	08-08-2011	0341	"VVV VVV VVV 3K". Mode: CW
10436	18-10-2011	0645	Traffic. Mode: F1B 81-81/500 end of message, short F1A/500 FSK op-chat and off
		0657	air, later short control routines using A1A; "VVV 3K" / "3K"
		0845	
		1002	
		1015	
		1031	
10276	01-01-2012	0956	"3K" answer of "VVV" series on 10306 kHz. Mode: CW
10306	01-01-2012	0955	"VVV VVV" answered on 10276 kHz with "3K". Mode: CW



## Unids

Bob reports an unid beacon on 750 kHz. Check the recording on the N&O website. The beacon is good audible in the morning in Western Europe. It sends the following characters: •• •-•- which represent the Russian letters: “ИЯ” or “I Ä” or “AA”. Any ideas??? Check the recording on the N&O website

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## Pirate stations

Bob heard the infamous Italian station on his usual frequency 6998 kHz. He now uses callsign “HH7”.

During the past few years has has used these callsigns and maybe others as well: HWK7, CUA43, CUA69, SSA49, SH7, HH7.

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### *Intelligence profile:* **Mozambique**



## **BACKGROUND**

Almost five centuries as a Portuguese colony came to a close with independence in 1975. Large-scale emigration, economic dependence on South Africa, a severe drought, and a prolonged civil war hindered the country's development until the mid 1990s. The ruling Front for the Liberation of Mozambique (Frelimo) party formally abandoned Marxism in 1989, and a new constitution the following year provided for multiparty elections and a free market economy. A UN-negotiated peace agreement between Frelimo and rebel Mozambique National Resistance (Renamo) forces ended the fighting in 1992. In December 2004, Mozambique underwent a delicate transition as Joaquim CHISSANO stepped down after 18 years in office. His elected successor, Armando Emilio GUEBUZA, promised to continue the sound economic policies that have encouraged foreign investment.

### **Note:**

The Mozambican National Resistance (RENAMO; Resistência Nacional Moçambicana) is a conservative political party in Mozambique. It fought against the FRELIMO in the Mozambican Civil War and against the ZANU movement led by Robert Mugabe from 1975 to 1992. The Liberation Front of Mozambique, (FRELIMO; Frente de Libertação de Moçambique), was a liberation movement which was founded in 1962 to fight for the independence of the Portuguese Overseas Province of Mozambique. At its 3rd Congress, in February 1977, it became a Marxist-Leninist political party and its official name became the Frelimo Party (Partido Frelimo).

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## GENERAL

Official name: Republica de Mocambique (Republic of Mozambique)  
Short name: Mocambique  
Former name: Portuguese East Africa  
Capital: Maputo  
1 City: Cidade de Maputo  
10 Provinces: Cabo Delgado, Gaza, Inhambane, Manica, Maputo, Nampula, Niassa, Sofala, Tete, Zambezia

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## MILITARY BRANCHES

Mozambique Armed Defense Forces (Forças Armadas de Defesa de Mocambique, FADM):

- Mozambique Army, Mozambique Navy (Marinha de Guerra de Mocambique, MGM)
  - Mozambique Air Force (Força Aerea de Mocambique, FAM)
- 

## SECURITY & INTELLIGENCE AGENCIES

Serviço Nacional de Segurança Popular (SNASP) / National People's Security Service  
Serviço de Informações e Segurança do Estado (SISE) / State Information and Security Services  
Polícia da República de Moçambique (PRM) / Mozambican National Police  
Polícia de Investigação Criminal. (PIC) / Criminal Investigation Police  
Força de Intervenção Rápida (FIR) / Rapid Intervention Force  
Military Intelligence

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**Serviço Nacional de Segurança Popular** was a paramilitary and intelligence services of the government of Mozambique since independence in 1975 until 1991, when it was replaced by the Intelligence and State Security (SISE) by the newly renamed parliament, the Assembly of the Republic.

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### Serviços de Informação e Segurança do Estado (SISE)

The government approved a new organic law because the nation needed protection and security, especially against sabotage, terrorism, espionage, organized crime, transnational and practice of acts which by their nature can change the constitutionally established rule of law. The Statute also defines the rights, guarantees and specific disciplinary SISE members to ensure their integration, rights and benefits, discipline and functioning of the institution. The SISE reports directly to the president.

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The forces responsible for internal security under the Ministry of Interior include: The **Criminal Investigation Police** (PIC), the **Mozambican National Police** (PRM), and the **Rapid Intervention Force** (FIR). The FIR is a paramilitary organization.

Law 19/92 of 31 December 1992 created the Police of the **Republic of Mozambique** (PRM) to replace the old Mozambique People's Police (PPM). In the Security paper of 1997 (Article 11) the internal security is assigned to the PRM.

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## SOURCES / RELATED WEBSITES / LITERATURE

US Department of State	<a href="http://www.state.gov/g/drl/rls/hrrpt/2003/27740.htm">http://www.state.gov/g/drl/rls/hrrpt/2003/27740.htm</a>
Mozambique History Net	<a href="http://www.mozambiquehistory.net/index.html">http://www.mozambiquehistory.net/index.html</a>
Club of Mozambique	<a href="http://www.clubofmozambique.com">http://www.clubofmozambique.com</a>
Institute for Security Studies	<a href="http://www.iss.co.za/pubs/asr/9no1/%20securitymozambique.html">http://www.iss.co.za/pubs/asr/9no1/%20securitymozambique.html</a>
CIA World Factbook	
Wikipedia	

## LOGS SECTION

frequency	enigma	date	UTC	remarks	mode	day	contributor
2485	M01b	1-12-2011	2042	382-330/33=57816 //3160	CW	Thu	(HFD)
2656	M01b	14-1-2012	2003	866 910 31 = 82229 07041	CW		(FN)
2680	M22	20-1-2012	2217	4XZ Israel navy	CW		(AB)
2680	M22	20-1-2012	2245	4XZ in progress 2680//4331//4595//6379//6607 kHz	CW		(AnEur)
2680	M22	23-1-2012	1620	4XZ in progress 2680//2860//4331//4595//6379//6607 kHz	CW		(AB)
2680	M22	23-1-2012	2000	4XZ in progress 2580//2860 kHz	CW		(FN)
2680	M22	23-1-2012	2032	4XZ: ISR Haifa Naval VVV DE 4XZ	CW		(VL)
2680	M22	24-1-2012	1944	4XZ: ISR Haifa Naval 1943 CW VVV DE 4XZ	CW		(VL)
2710	M32	25-1-2012	2121	CIS Mil? "... FXTÍC DLLNH ... slow 4LG to unid ... XWZHA IJPDF ... C.AOO WRPOY = K". Apparent 96-group message.	CW		(MPJ)
2776	M32	24-1-2012	1939	Russian Navy: "DE RCV QTC"	CW		(VL)
2815.5	M32	10-1-2012	0435	Russian Mil: FXWD msg to DQNS	CW		(PPA)
2815.5	M32	10-1-2012	0441	Russian Mil: "DQNS QTC 292 47 10 0831 292 =" into 5L msg	CW		(PPA)
2822	M32	13-1-2012	2116	CIS military "DX1S DE APSH R955?"	CW		(PPA)
2860	M22	23-1-2012	1620	4XZ in progress 2680//2860//4331//4595//6379//6607 kHz	CW		(AB)
2860	M22	23-1-2012	2000	4XZ in progress 2580//2860 kHz	CW		(FN)
2860	M22	24-1-2012	1943	4XZ: ISR Haifa Naval 1943 CW VVV DE 4XZ	CW		(VL)
3082	M32	2-1-2012	1333	8254 k	CW		(Avare)
3160	M01b	1-12-2011	2042	382-330/33=57816 //2485	CW	Thu	(HFD)
3160	S06	28-12-2011	1805	471 0	USB	Wed	(HFD)
3192	S06	9-1-2012	1900	349 349 349 00000	AM		(AB)
3192	S06	9-1-2012	1900	349 349 349 00000	AM		(Avare/AiK)
3240	M42	10-1-2012	0526	Russian Gov/Intel.	RUS-ARQ 100/250		(PPA)
3293	M32	27-1-2012	0222	Russian Mil. APST msg to TFTN after "055 13 27 0620 055 =674="	CW		(PPA)
3297	M89	1-1-2012	1128	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW		(JPL-HK)
3297	M89	1-1-2012	2144	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW		(JPL-HK)
3297	M89	2-1-2012	1452	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW		(JPL-HK)
3297	M89	2-1-2012	1504	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW		(JPL-HK)
3297	M89	2-1-2012	1525	V GKVZ (x3) DE Q7NW ... 781 008.254/15802 A COMM AAS BT 39169/5254/0100/117NR/7810 (x2) AR	CW		(JPL-HK)
3297	M89	3-1-2012	1128	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW		(JPL-HK)
3297	M89	4-1-2012	1317	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW		(JPL-HK)
3297	M89	4-1-2012	1834	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW		(JPL-HK)
3297	M89	4-1-2012	2158	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW		(JPL-HK)
3297	M89	8-1-2012	1339	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW		(JPL-HK)
3297	M89	8-1-2012	1633	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW		(JPL-HK)
3297	M89	8-1-2012	1734	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW		(JPL-HK)
3297	M89	8-1-2012	2027	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW		(JPL-HK)
3297	M89	9-1-2012	1559	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW		(JPL-HK)
3297	M89	9-1-2012	1725	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW		(JPL-HK)
3297	M89	9-1-2012	2029	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW		(JPL-HK)
3297	M89	10-1-2012	1648	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW		(JPL-HK)
3297	M89	11-1-2012	1628	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW		(JPL-HK)
3297	M89	17-1-2012	1730	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW		(JPL-AUS)
3297	M89	18-1-2012	1435	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW		(JPL-HK)



frequency	enigma	date	UTC	remarks	mode	day	contributor
3297	M89	18-1-2012	1754	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW		(JPL-HK)
3297	M89	23-1-2012	2034	GKVZ DE Q7NW	CW		(VL)
3297	M89	31-1-2012	1628	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW		(JPL-HK)
3297	M89	31-1-2012	2054	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW		(JPL-HK)
3297	M89	13-12-2012	1451	In tfc - 4 fig cut nrs into V GKVZ (x3) DE Q7NW (x2)	CW		(JPL-HK)
3322	M21	23-1-2012	1852	Russian Air Defence =992253??T?????	CW		(PPA)
3322	M21	25-1-2012	2054	QRU strings: =990055??0?????	CW		(MPJ)
3323	S21	24-1-2012	1842	OM 32...2...3..323.2.2.3... weak	USB		(AIK)
3508	M51	9-1-2012	2333	NR 62 J 10 00:33:05 1984 BT	CW		(Spec)
3545	M01b	22-12-2011	1932	910-###/31=82229	CW	Thu	(HFD)
3546	M01b	12-1-2012	1932	910 31 = 82229 07041	CW		(FN)
3580	XPA	9-1-2012	0400	in progress at beginning and end	MFSK	Mon	(DPS)
3580	XPA	10-1-2012	0300	in progress at beginning and end	MFSK	Tue	(DPS)
3580	XPA	10-1-2012	0400	Started listening at 4UTC, went on all night.	MFSK	Tue	(DPS)
3580	XPA	11-1-2012	0002	in progress at beginning and end	MFSK	Wed	(DPS)
3617	M51	8-1-2012	0140	NR 68 J 05 02:40:09 1984 BT	CW		(Spec)
3617	M51	8-1-2012	2318	NR 31 J 06 00:18:09 1984 BT	CW		(Spec)
3626	S06	7-1-2012	2100	416 416 416 00000	AM		(AB)
3642	M89	1-1-2012	1810	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW		(JPL-HK)
3642	M89	1-1-2012	1810	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW		(JPL-HK)
3642	M89	4-1-2012	1833	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW		(JPL-HK)
3642	M89	23-1-2012	2038	DKG6 DE 3A7D	CW		(VL)
3645	S06	13-12-2011	1800	617 0	USB	Tue	(HFD)
3658	MX	8-1-2012	0136	Beacon "V"	CW		(AB)
3715	M42	24-1-2012	2100	Russian Intel.	FSK 200/1000	Tue	(FMB)
3725	M32	2-1-2012	1325	xxx wegi 38361 amanit	CW		(Avare)
3725	M32	2-1-2012	1333	xxx rgt77 34426 umeredienie 7085 4179 k	CW		(Avare)
3725	M32	15-1-2012	1425	xxx xxx wegi wegi 23 234 vozduh 5864 2475 k; xxx xxx FGT77 RGA77 71393 PALINOWYJ 7102 8414 k	CW		(Avare)
3749	VC01	4-1-2011	1208	Chinese Robot in progress	USB		(AB-HK)
3749	VC01	4-1-2012	2014	Chinese Robot in progress	USB		(AB-HK)
3749	VC01	2-2-2012	2126	Chinese Robot in progress	USB		(AB-HK)
3754	G06	9-1-2012	1707	Test count 1234567890	AM		(Avare)
3756	S30	1-1-2012	1639	Dlya VTH3 AGDT 'U1B OSOG BO6C F56Shch 9GSA ZhBZU 4RVZ 3VS'	USB		(Tucana)
3756	S30	2-1-2012	0400	Dlya DKJ1 6I2Zh ZhD9V SJ5C 62BV 81BR M7KS PMV5 L'GJ TShchShchS	USB		(Tucana)
3756	S30	2-1-2012	1333	8S1Shch 71 304 Gastrana 02 88 83 02 Priyom	USB		(Avare)
3756	S30	2-1-2012	1333	8S1Shch 74 304 GASURANA 02 88 87 02	USB		(Tucana)
3756	S30	2-1-2012	1400	8S1Shch 22 569 Sochelnitsa 65 49 91 34 Priyom	USB		(Avare)
3756	S30	2-1-2012	1400	8S1Shch 22 659 SOChYeD'NICA 55 49 91 34	USB		(Tucana)
3756	S30	2-1-2012	1746	Dlya 'MSV YGJ' 12CI 79AJ P'HSch 6YeHB CP3' ShchT3O CIHS Zh1TR	USB		(Tucana)
3756	S30	2-1-2012	2132	Pip	CW		(AB)
3756	S30	3-1-2012	0306	Dlya Z7PM 'O6P JH'J DMC3 49FT C2ZA LI27 INNC ShchGJP 8CSchJ	USB		(Tucana)
3756	S30	3-1-2012	1639	Dlya 'U1B OSOG BO6C F56Shch 9GSA ZhBZU 4RVZ 3VS' DKJ1 6I2Zh	USB		(Tucana)
3756	S30	4-1-2012	0406	Dlya ZhD9V SJ5C 62BV 81BR M7KS PMV5 L'GJ TShchShchS VKY1 HCLF	USB		(Tucana)
3756	S30	4-1-2012	1430	Dlya 8MUO TUZR 5J7Shch 27Shch' N1DU 53OB 78MV A3PS 'MSV YGJ'	USB		(Tucana)
3756	S30	4-1-2012	1744	Dlya 12CI 79AJ P'HSch 6YeHB CP3' ShchT3O CIHS Zh1TR Z7PM 'O6P	USB		(Tucana)
3756	S30	5-1-2012	1407	8S1Shch 38 050 STRUKTURA 64 95 80 04	USB		(Tucana)
3756	S30	5-1-2012	1648	Dlya 62BV 81BR M7KS PMV5 L'GJ TshchShchS VKY1 HCLF 61HZh ZBIL	USB		(Tucana)
3756	S30	6-1-2012	0353	Dlya L7O5 V'Z' NLCYe V2MZ SB7Z TAZ7 PYCM Y8VM 8MUO TUZR 5J7Shch	USB		(Tucana)
3756	S30	6-1-2012	1716	Dlya C2ZA LI27 INNC ShchGJP 8CSchJ TZLM FY5Ye F61N 37CN MUDR	USB		(Tucana)
3756	S30	7-1-2012	0343	Dlya 7VNSch Zh7NZh YMA5 VTH3 AGDT 'U1B OSOG BO6C F56Shch 9GSA	USB		(Tucana)
3756	S30	7-1-2012	1709	Dlya V2MZ SB7Z TAZ7 PYCM Y8VM 8MUO TUZR 5J7Shch 27Shch' N1DU	USB		(Tucana)
3756	S30	8-1-2012	0417	Dlya 53OB 78MV A3PS 'MSV YGJ' 12CI 79AJ P'HSch 6YeHB CP3'	USB		(Tucana)
3756	S30	8-1-2012	1734	Dlya INNC ShchGJP 8CSchJ TZLM FY5Ye F61N 37CN MUDR 7VNSch Zh7NZh	USB		(Tucana)
3756	S30	8-1-2012	1920	Dlya YMA5 VTH3 AGDT 'U1B OSOG BO6C F56Shch 9GSA ZhBZU 4RVZ	USB		(Tucana)
3756	S30	9-1-2012	1335	Dlya TAZ7 PYCM Y8VM 8MUO TUZR 5J7Shch 27Shch' N1DU 53OB 78MV	USB		(Tucana)
3756	S30	10-1-2012	0343	Dlya A3PS 'MSV YGJ' 12CI 79AJ P'HSch 6YeHB CP3' ShchT3O CIHS	USB		(Tucana)



frequency	enigma	date	UTC	remarks	mode	day	contributor
3756	S30	10-1-2012	1734	Dlya AGDT 'U1B OSOG BO6C F56Shch 9GSA ZhBZU 4RVZ 3VS' DKJ1	USB		(Tucana)
3756	S30	11-1-2012	0358	Dlya 6I2Zh ZhD9V SJ5C 62BV 81BR M7KS PMV5 L'GJ TshchShchS VKY1	USB		(Tucana)
3756	S30	11-1-2012	1525	Dlya Y8VM 8MUO TUZR 5J7Shch 27Shch' N1DU 53OB 78MV A3PS 'MSV	USB		(Tucana)
3756	S30	11-1-2012	1752	Dlya YGJ' 12CI 79AJ P'HSch 6YeHB CP3' ShchT3O CIHS Zh1TR Z7PM	USB		(Tucana)
3756	S30	12-1-2012	0356	Dlya 'O6P JH'J DMC3 49FT C2ZA LI27 INNC ShchGJP 8CSchJ TZLM	USB		(Tucana)
3756	S30	12-1-2012	1647	Dlya OSOG BO6C F56Shch 9GSA ZhBZU 4RVZ 3VS' DKJ1 6I2Zh ZhD9V	USB		(Tucana)
3756	S30	12-1-2012	1750	Dlya SJ5C 62BV 81BR M7KS PMV5 L'GJ TshchShchS VKY1 HCLF 61HZh	USB		(Tucana)
3756	S30	13-1-2012	1704	Dlya DMC3 49FT C2ZA LI27 INNC ShchGJP 8CSchJ TZLM FY5Ye F61N	USB		(Tucana)
3756	S30	14-1-2012	0401	Dlya 37CN MUDR 7VNSch Zh7NZh YMA5 VTH3 AGDT 'U1B OSOG BO6C	USB		(Tucana)
3756	S30	14-1-2012	1457	Dlya 81BR M7KS PMV5 L'GJ TshchShchS VKY1 HTcLF 61HZh ZBIL L7O5 Kak slyshno? Kak slyshno? Priyom	USB		(Avare)
3756	S30	14-1-2012	1458	Dlya 81BR M7KS PMV5 L'GJ TshchShchS VKY1 HCLF 61HZh ZBIL L7O5	USB		(Tucana)
3756	S30	14-1-2012	1918	Dlya V'Z' NLCYe V2MZ SB7Z TAZ7 PYCM Y8VM 8MUO TUZR 5J7Shch	USB		(Tucana)
3756	S30	15-1-2012	0414	Dlya 27Shch' N1DU 53OB 78MV A3PS 'MSV YGJ' 12CI 79AJ P'HSch	USB		(Tucana)
3756	S30	16-1-2012	0408	Dlya ZhBZU 4RVZ 3VS' DKJ1 6I2Zh ZhD9V SJ5C 62BV 81BR M7KS	USB		(Tucana)
3756	S30	16-1-2012	1733	Dlya 53OB 78MV A3PS YGJ' 12CI 79AJ P'HSch 6YeHB CP3' 'MSV	USB		(Tucana)
3756	S30	17-1-2012	0328	Dlya ShchT3O CIHS Zh1TR Z7PM 'O6P JH'J DMC3 49FT C2ZA LI27	USB		(Tucana)
3756	S30	17-1-2012	1737	Dlya 3VS' DKJ1 6I2Zh ZhD9V SJ5C 62BV 81BR M7KS PMV5 L'GJ	USB		(Tucana)
3756	S30	18-1-2012	1644	Dlya A3PS 'MSV YGJ' 12CI 79AJ P'HSch 6YeHB CP3' ShchT3O CIHS	USB		(Tucana)
3756	S30	19-1-2012	0416	Dlya Zh1TR Z7PM 'O6P JH'J DMC3 49FT C2ZA LI27 INNC ShchGJP	USB		(Tucana)
3756	S30	19-1-2012	1705	Dlya AGDT 'U1B OSOG BO6C F56Shch 9GSA ZhBZU 4RVZ 3VS' DKJ1	USB		(Tucana)
3756	S30	19-1-2012	1748	Dlya 6I2Zh ZhD9V SJ5C 62BV 81BR M7KS PMV5 L'GJ TshchShchS VKY1	USB		(Tucana)
3756	S30	20-1-2012	0301	Dlya HCLF 61HZh ZBIL L7O5 V'Z' NLCYe V2MZ SB7Z TAZ7 PYCM	USB		(Tucana)
3756	S30	20-1-2012	1741	8S1Shch 05 937 KAVARDAK 73 94 52 03	USB		(Tucana)
3756	S30	20-1-2012	1854	Dlya 'O6P JH'J DMC3 49FT C2ZA LI27 INNC ShchGJP 8CSchJ TZLM	USB		(Tucana)
3756	S30	21-1-2012	0329	Dlya FY5Ye F61N 37CN MUDR 7VNSch Zh7NZh YMA5 VTH3 AGDT 'U1B	USB		(Tucana)
3756	S30	21-1-2012	1817	Dlya ZBIL L7O5 V'Z' NLCYe V2MZ SB7Z TAZ7 PYCM Y8VM 8MUO	USB		(Tucana)
3756	S30	22-1-2012	0313	8S1Shch 73 373 VDYeVANIE 84 56 22 35	USB		(Tucana)
3756	S30	22-1-2012	0405	Dlya TUZR 5J7Shch 27Shch' N1DU 53OB 78MV A3PS 'MSV YGJ' 12CI	USB		(Tucana)
3756	S30	22-1-2012	2027	Dlya 37CN MUDR 7VNSch Zh7NZh YMA5 VTH3 AGDT 'U1B OSOG BO6C	USB		(Tucana)
3756	S30	23-1-2012	1706	Dlya 27Shch' N1DU 53OB 78MV A3PS 'MSV YGJ' 12CI 79AJ A3PS	USB		(Tucana)
3756	S30	24-1-2012	0424	Dlya 6YeHB CP3' ShchT3O CIHS Zh1TR Z7PM 'O6P JH'J DMC3 49FT	USB		(Tucana)
3756	S30	24-1-2012	1458	Dlya 7VNSch Zh7NZh YMA5 VTH3 AGDT 'U1B OSOG BO6C F56Shch 9GSA	USB		(Tucana)
3756	S30	24-1-2012	1725	Dlya ZhBZU 4RVZ 3VS' DKJ1 6I2Zh ZhD9V SJ5C 62BV 81BR M7KS	USB		(Tucana)
3756	S30	25-1-2012	1509	8S1Shch 77 947 BELANDE 88 42 01 50	USB		(Tucana)
3756	S30	25-1-2012	1734	Dlya ShchT3O CIHS Zh1TR Z7PM 'O6P JH'J DMC3 49FT C2ZA LI27	USB		(Tucana)
3756	S30	26-1-2012	1314	?? ?45 MORYEuz 36 87 29 85 Priyomyom	USB		(Avare)
3756	S30	26-1-2012	1315	8S1Shch ?? ?45 MORYEuz 36 87 29 85	USB		(Tucana)
3756	S30	26-1-2012	1354	8S1Shch 70 465 OTDYeLOChNIK 57 76 62 41	USB		(Tucana)
3756	S30	27-1-2012	1607	Dlya 78MV A3PS 'MSV YGJ' 12CI 79AJ P'HSch 6YeHB CP3' ShchT3O	USB		(Tucana)
3756	S30	28-1-2012	0348	Dlya ShchGJP 8CSchJ TZLM FY5Ye F61N 37CN MUDR 7VNSch Zh7NZh YMA5	USB		(Tucana)
3756	S30	28-1-2012	1732	Dlya VKY1 HCLF 61HZh ZBIL L7O5 V'Z' NLCYe V2MZ SB7Z TAZ7	USB		(Tucana)
3756	S30	29-1-2012	0417	Dlya PYCM Y8VM 8MUO TUZR 5J7Shch 27Shch' N1DU 53OB 78MV A3PS	USB		(Tucana)
3756	S30	29-1-2012	1435	Dlya Z7PM 'O6P JH'J DMC3 49FT C2ZA LI27 INNC ShchGJP 8CSchJ	USB		(Tucana)
3756	S30	30-1-2012	0417	Dlya 'U1B OSOG BO6C F56Shch 9GSA ZhBZU 4RVZ 3VS' DKJ1 6I2Zh	USB		(Tucana)
3756	S30	30-1-2012	1630	Dlya 61HZh ZBIL L7O5 V'Z' NLCYe V2MZ SB7Z TAZ7 PYCM Y8VM	USB		(Tucana)
3756	S30	31-1-2012	0345	Dlya 8MUO TUZR 5J7Shch 27Shch' N1DU 53OB 78MV A3PS 'MSV YGJ'	USB		(Tucana)
3756	S30	31-1-2012	1812	Dlya F61N 37CN MUDR 7VNSch Zh7NZh YMA5 VTH3 AGDT 'U1B OSOG	USB		(Tucana)
3797	M89	4-1-2012	1830	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW		(JPL-HK)
3797	M89	4-1-2012	2159	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW		(JPL-HK)
3797	M89	8-1-2012	1627	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW		(JPL-HK)
3797	M89	8-1-2012	2025	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW		(JPL-HK)
3797	M89	9-1-2012	1036	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW		(JPL-HK)
3797	M89	9-1-2012	1556	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW		(JPL-HK)



frequency	enigma	date	UTC	remarks	mode	day	contributor
3797	M89	10-1-2012	1644	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW		(JPL-HK)
3797	M89	11-1-2012	1612	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW		(JPL-HK)
3797	M89	18-1-2012	1757	VVV (x3) H2FL (x3) DE DRV8 (x2) (Cont'd) (Wed) //4512	CW		(JPL-HK)
3797	M89	31-1-2012	1629	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW		(JPL-HK)
3803	M18	9-1-2012	0243	0645 0646 etc. UTC+4 (2 mins off)	CW		(AB)
3803	M18	13-1-2012	1940	0140 0140 0140 ...	CW		(FN)
3803	M18	16-1-2012	1622	Russian Mil time marker: 0230 UTC+10hrs 7 mins off	CW		(JPL-SVK)
3803	M18	16-1-2012	2013	Russian Mil time marker: 0230 UTC+10hrs 7 mins off	CW		(JPL-D)
3803	M18	20-1-2012	2306	Sending its usual time strings 1315 1315 1316 etc (UTC+10hrs)	CW		(AB)
3828	S32	2-1-2012	1338	Alfa-45 45 25 670 Krichtonit 45 13 27 86 Priyom	USB		(Avare)
3828	S32	2-1-2012	1340	Dlia Utios-94 Penza-07 Stazhor-29 Kak slyshno? Priyom.	USB		(Avare)
3828	S32	2-1-2012	1404	Alfa-45 45 04 501 Iriska 87 60 16 28 Priyom	USB		(Avare)
3828	S32	2-1-2012	2132	Squeaky Wheel	USB		(AB)
3828	S32	15-1-2012	1504	Al'fa45 46 551 GREJTONIT 49 91 63 99. Note: Pip in the background	USB		(Avare)
3828	S32	26-1-2012	1315	Al'fa45 Al'fa45 05 088 IPOKRIT 69 19 05 60 Priyom	USB		(Avare)
3828	S32	26-1-2012	1358	Al'fa45 41 644 VPLYTIE 68 74 47 11 Priyom	USB		(Avare)
3829	S32	6-1-2012	2000	USB 2 tones 03 Ru OM w/msgs (2x) repeat (?) 2 tone	USB	Fri	(HFD)
3838	S06	2-1-2012	1905	349 349 349 00000	AM		(AB)
3838	S06	12-1-2012	1905	349 0	AM	Thu	(HFD)
3838	S06s	30-1-2012	1905	349 349 349 00000	USB		(AIK)
4012	M12	28-12-2011	2240	350 1	CW	Wed	(HFD)
4027	M42	24-1-2012	2220	Russian Intel.	FSK 200/1000	Tue	(FMB)
4033.5	M32	24-1-2012	2108	JKXA: CIS Mil " .. QSA2 QOR QJR ? K. OEOD de JKXA QSA ? K."	CW		(MPJ)
4198.5	M32	14-1-2012	0610	RCB: Russian Naval Air Transport Kaliningrad 5LG msg to RMAE, clg RCD95	CW		(WP3)
4225	M89	1-1-2012	1125	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW		(JPL-HK)
4225	M89	1-1-2012	1808	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW		(JPL-HK)
4225	M89	2-1-2012	1441	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW		(JPL-HK)
4225	M89	3-1-2012	1403	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW		(JPL-HK)
4225	M89	4-1-2012	1311	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW		(JPL-HK)
4225	M89	8-1-2012	1325	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW		(JPL-HK)
4225	M89	8-1-2012	1616	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW		(JPL-HK)
4225	M89	8-1-2012	2032	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW		(JPL-HK)
4225	M89	9-1-2012	1008	In traffic UGT COMM BT 6633/1550/Z91/3083 AR V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW		(JPL-HK)
4225	M89	9-1-2012	1551	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW		(JPL-HK)
4225	M89	10-1-2012	1643	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW		(JPL-HK)
4225	M89	17-1-2012	1713	VVV (x3) 7NPE DE QV5B (x2) (Cont'd) (Tue)	CW		(JPL-AUS)
4225	M89	31-1-2012	1623	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW		(JPL-HK)
4225	M89	31-1-2012	2056	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW		(JPL-HK)
4225	M89	13-12-2012	1433	V 7NWI (x3) DE QV5B (x2) (Cont'd)	CW		(JPL-HK)
4325.9	MX	2-1-2012	0546	Beacon "R"	CW		(Danix)
4325.9	MX	2-1-2012	2134	Beacon "R"	CW		(AB)
4330	M22	21-1-2012	0116	4xz (i.p.)	CW	Sat	
4331	M22	19-1-2012	2012	4XZ on several new freqs: 4595//4331//6379	CW		(Danix)
4331	M22	20-1-2012	0558	4XZ on unusual freqs: 4331//4595//6379//6607 kHz	CW		(Danix)
4331	M22	20-1-2012	1845	4XZ "VVV" marker 4331//4595//6379//6607 kHz	CW		(Tom)
4331	M22	20-1-2012	2245	4XZ in progress 2680//4331//4595//6379//6607 kHz	CW		(AnEur)
4331	M22	23-1-2012	1620	4XZ in progress 2680//2860//4331//4595//6379//6607 kHz	CW		(AB)
4331	M22	23-1-2012	2043	4XZ: ISR Haifa Naval VVV DE 4XZ	CW		(VL)
4331	M22	24-1-2012	1941	4XZ in progress on 4331//4595//6379//6607 kHz	CW		(AB)
4331	M22	24-1-2012	1945	4XZ: ISR Haifa Naval 1943 CW VVV DE 4XZ	CW		(VL)
4331	M22	31-1-2012	2054	4XZ in progress	CW		(ML4)
4440	XPA2	1-12-2011	2030	msg	MFSK	Thu	(HFD)
4441	E11	12-1-2012	0900	246/00	USB		(AB)
4441	E11	14-1-2012	0900	248/00	USB		(AB)
4441	E11	14-1-2012	0900	248/00	USB		(FN)
4441	E11	18-1-2012	1445	287/00	USB		(FN)
4441	E11	21-1-2012	0900	248/00	USB		(FN)
4441	E11	23-1-2012	1051	127/00	USB		(AB-D)



frequency	enigma	date	UTC	remarks	mode	day	contributor
4441	E11a	28-12-2011	1445	288/38	USB	Wed	(HFD)
4441	E11a	8-1-2012	1050	120/35	USB	Sun	(HFD)
4441	E11a	8-1-2012	1050	120/35 Attention 84795 93678 46111 70693 52416 24508 49921 49132 40823 73793 ..... Out	USB		(Avare)
4441	E11a	11-1-2012	1445	267/36	USB		(AB)
4441	E11a	14-1-2012	1445	288/36	USB		(AB)
4441	E11a	14-1-2012	1445	288/36	USB		(Avare)
4441	G11	14-1-2012	2000	262/00	USB		(FN)
4441	S11a	16-1-2012	1355	254/00	USB		(AB)
4441	S11a	23-1-2012	1355	254/00	USB		(AB-SVK)
4443	M12	1-12-2011	0440	408 0	CW	Thu	(HFD)
4443	M12	3-1-2012	0440	408 408 408 1 105 131 105 131 74814 05215 17148 96137 50839 etc	CW		(Danix)
4443	M12	17-1-2012	0440	408 408 408 1 msg	CW		(AB)
4458	M51	5-1-2012	0744	5L msg after bt nr 02 j 05 08:45:00 1984 bt	CW		(PPA)
4458	M51	5-1-2012	0837	5 letters blocks	CW		(ML4)
4459	M51	24-1-2012	2051	(i.p.)	MCW	Tue	(FMB)
4469	XPA2	3-1-2012	2030	msg	MFSK	Tue	(HFD)
4469	XPA2	10-1-2012	2030	00467 00179 50793 39171 73573 17441 69780 59018 88109 69411 07477 9755 15913 etc	MFSK		(AiK)
4469	XPA2	17-1-2012	2030	Null msg	MFSK		(AiK)
4469	XPA2	24-1-2012	2030	Unreadable	MFSK		(AiK)
4469	XPA2	31-1-2012	2030	01313 00001 00000 10140	MFSK		(AiK)
4474	M89	31-12-2011	1726	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	CW		(JPL-HK)
4474	M89	8-1-2012	1729	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	CW		(JPL-SVK)
4474	M89	8-1-2012	2021	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	CW		(JPL-HK)
4474	M89	25-1-2012	2058	RXP7 de CZT2	CW		(VL)
4483	E07	1-12-2011	2150	744 1	USB	Thu	(HFD)
4489	E06	7-1-2012	0230	759 246 31	AM		(Spec)
4489	E06	8-1-2012	0230	759 246 31	AM		(Spec)
4489	E06	14-1-2012	0230	759 681 34	AM		(Spec)
4489	E06	15-1-2012	0230	759 681 34	AM		(Spec)
4489	E06	21-1-2012	0230	759 184 32	AM		(Spec)
4489	E06	22-1-2012	0230	759 184 32	AM		(Spec)
4489	E06	28-1-2012	0230	759 468 31	AM		(Spec)
4489	E06	29-1-2012	0230	759 468 31	AM		(Spec)
4491	M01	12-1-2012	2000	197 318 30 = 84765 24688	CW		(FN)
4491	M01	17-1-2012	2000	197 631 31 = 87829 64931	CW		(FN)
4492	M01	19-1-2012	2000	197 486 30 = 54622	CW		(FN)
4512	M12	28-12-2011	2220	350 1	CW	Wed	(HFD)
4512	M89	1-1-2012	1130	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW		(JPL-HK)
4512	M89	1-1-2012	1815	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW		(JPL-HK)
4512	M89	1-1-2012	2146	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW		(JPL-HK)
4512	M89	2-1-2012	1450	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW		(JPL-HK)
4512	M89	3-1-2012	1409	In tfc - 4 fig cut nr AR V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW		(JPL-HK)
4512	M89	4-1-2012	1830	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW		(JPL-HK)
4512	M89	4-1-2012	2159	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW		(JPL-HK)
4512	M89	8-1-2012	1333	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW		(JPL-HK)
4512	M89	8-1-2012	1627	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW		(JPL-HK)
4512	M89	9-1-2012	1556	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW		(JPL-HK)
4512	M89	11-1-2012	1612	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW		(JPL-HK)
4512	M89	18-1-2012	1432	VVV (x3) H2FL (x3) DE DRV8 (x2) (Cont'd)	CW		(JPL-HK)
4512	M89	18-1-2012	1757	VVV (x3) H2FL (x3) DE DRV8 (x2) (Cont'd) (Wed) //3797	CW		(JPL-HK)
4512	M89	31-1-2012	1629	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW		(JPL-HK)
4512	M89	31-1-2012	2055	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW		(JPL-HK)
4512	M89	13-12-2012	1445	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW		(JPL-HK)
4516	E06	1-1-2012	0230	759 180 32	AM		(Spec)
4525	M42	24-1-2012	2110	Russian Intel.	FSK 200/1000	Tue	(FMB)
4535	S06	9-1-2012	2215	985 985 985 00000	AM		(AB)
4557.7	MX	22-12-2011	2210	Beacon "D"	CW		(MPJ)
4557.7	MX	9-1-2012	0230	Beacon "D"	CW		(AB)



frequency	enigma	date	UTC	remarks	mode	day	contributor
4557.9	MX	22-12-2011	2210	Beacon "S"	CW		(MPJ)
4557.9	MX	9-1-2012	0230	Beacon "S"	CW		(AB)
4564	E07a	4-1-2012	2140	815 1 16663 478 51	AM		(Spec)
4564	E07a	4-1-2012	2140	815 1-16663	AM	Wed	(HFD)
4564	E07a	4-1-2012	2140	815 815 815 1 16663 478 51 42235 48928 14775 ..... 82480 000 000	USB		(AB)
4564	E07a	25-1-2012	2140	815 1 16663 478 51	AM		(Spec)
4567	XPA	3-1-2012	1440	msg	MFSK	Tue	(HFD)
4567	XPA	17-1-2012	1440	Msg	MFSK		(AB)
4567	XPA	31-1-2012	1440	845 845 845 000 845 845 845 000 6 08190 00001 00000 10140	MFSK		(AIK)
4580	S06s	11-1-2012	1230	967 243 5 79556 47824 65249 11459 58977 243 5 00000	USB		(AB-SVK)
4590	M89	24-1-2012	1948	GNXG: Chinese Forces	CW		(VL)
4595	M22	19-1-2012	2012	4XZ on several new freqs: 4595//4331//6379	CW		(Danix)
4595	M22	20-1-2012	0558	4XZ on unusual freqs: 4331//4595//6379//6607 kHz	CW		(Danix)
4595	M22	20-1-2012	1845	4XZ "VVV" marker 4331//4595//6379//6607 kHz	CW		(Tom)
4595	M22	20-1-2012	2200	4XZ with QTC, still on at 2300z	CW	Fri	(ScSw)
4595	M22	20-1-2012	2245	4XZ in progress 2680//4331//4595//6379//6607 kHz	CW		(AnEur)
4595	M22	21-1-2012	0116	4xz (i.p.)	CW	Sat	
4595	M22	23-1-2012	0017	in progress	CW	Mon	(CWT)
4595	M22	23-1-2012	1620	4XZ in progress 2680//2860//4331//4595//6379//6607 kHz	CW		(AB)
4595	M22	23-1-2012	1741	in progress	CW	Mon	(CWT)
4595	M22	23-1-2012	1924	4XZ: Israeli navy Haifa "5L msg after == aa gr 04 =="	CW		(PPA)
4595	M22	24-1-2012	1941	4XZ in progress on 4331//4595//6379//6607 kHz	CW		(AB)
4595	M22	24-1-2012	1946	4XZ: ISR Haifa Naval 1943 CW VVV DE 4XZ	CW		(VL)
4595.5	M31	12-1-2012	2015	FAF Calorie station, marker tape "ceci est une emission de..."	USB		(linkz)
4617	XPA2	3-1-2012	2050	msg	MFSK	Tue	(HFD)
4617	XPA2	10-1-2012	2050	00467 00179 50793 39171 73573 17441 69780 59018 88109 69411 07477 9755 15913 etc	MFSK		(AiK)
4617	XPA2	17-1-2012	2050	01751 1 0 10144	MFSK		(AIK)
4617	XPA2	24-1-2012	2050	884 00193 29174 .....	MFSK		(AIK)
4617	XPA2	31-1-2012	2050	0313 10 00000 10144	MFSK		(AIK)
4625	Buzzer	23-1-2012	0017	in progress	USB	Mon	(CWT)
4625	S28	2-1-2012	1337	MDZhB 80 902 Cherpalschik 41 46 67 06	USB		(AB-EST)
4625	S28	2-1-2012	1341	MDZhB 96 373 Verografin 58 10 72 49 (Repeat: Verorafin. Possibly dropout in the recording)	USB		(AB-EST)
4625	S28	2-1-2012	1358	MDZhB 58 504 Zernofurazh 37 11 03 28	USB		(AB-EST)
4625	S28	2-1-2012	2132	Buzzer	USB		(AB)
4625	S28	6-1-2012	1150	MDZhB 74 267 Berilit 76 50 28 87	USB		(AB-EST)
4625	S28	12-1-2012	0835	MDZhB 35 251 VERIDON 76 04 02 13 female voice	USB		(Avare)
4625	S28	12-1-2012	1025	MDZhB 72 179 PERESUSHchKA 29 77 82 68	USB		(Avare)
4625	S28	15-1-2012	1448	MDZhB 58 481 PERENOSNIK 07 76 65 52 BEREZOVAN 03 69 47 82	USB		(AB-EST)
4625	S28	15-1-2012	1448	MDZhB 58 481 PERENOSNIK 07 76 65 52 BEREZOVAN 03 69 47 82	USB		(Avare)
4625	S28	15-1-2012	1459	MDZhB 62 016 BEREZOVIcA 2963 2439	USB		(AB-EST)
4625	S28	15-1-2012	1459	MDZhB 62 016 BEREZOVIcA 2963 2439	USB		(Avare)
4625	S28	22-1-2012	1543	MDZhB 74 124 Keimicin 90 29 45 76	USB		(JM5)
4625	S28	25-1-2012	1521	MDZhB 94 527 Bezserdie 99 89 96 04	USB		(AB-EST)
4625	S28	25-1-2012	1526	MDZHB 20 306 Rezkí' 56 01 85 20	USB		(AB-EST)
4625	S28	26-1-2012	0115	MDZhB Vsemirnyj 02 54	USB		(AB-EST)
4625	S28	26-1-2012	0120	MDZhB Brylena 75 43	USB		(AB-EST)
4625	S28	26-1-2012	0347	MDZhB Stenvok 529 371	USB		(AB-EST)
4625	S28	26-1-2012	1320	MDZhB 67 627 Bezlobnyj 10 68 02 87	USB		(AB-EST)
4625	S28	26-1-2012	1322	MDZhB 81 704 Gezel 37 24 13 58	USB		(AB-EST)
4625	S28	26-1-2012	1324	MDZhB 92 343 Tsezarizle 34 56 07 09	USB		(AB-EST)
4625	S28	26-1-2012	1342	MDZhB 91 970 Mezhplosje 03 97 33 21	USB		(AB-EST)
4625	S28	26-1-2012	1350	MDZhB 48 886 Medsestra 65 85 40 03	USB		(AB-EST)
4625	S28	26-1-2012	1354	MDZhB 45 764 Medovka 62 60 25 45	USB		(AB-EST)
4625	S28	27-1-2012	0245	MDZhB Artsa 00 64	USB		(AB-EST)
4625	S28	27-1-2012	0455	MDZhB Stendovik 49 838	USB		(AB-EST)
4625	S28	27-1-2012	1101	MDZhB Priamoj 66 29	USB		(AB-EST)
4625	S28	27-1-2012	1408	MDZhB Steka 763 676	USB		(AB-EST)
4625	S28	27-1-2012	1457	MDZhB Vselennaja 67 90	USB		(AB-EST)



frequency	enigma	date	UTC	remarks	mode	day	contributor
4625	S28	29-1-2012	1326	MDZhB 73 569 Meditsel 74 30 25 32	USB		(AB-EST)
4625	S28?	14-1-2012	0915	"Allo Allo Allo" over the buzzer. Leaked phone call? Possibly not S28	USB		(Avare)
4625	S30	2-1-2012	1405	MDZhB 30 677 Kernit 22 05 59 41	USB		(AB-EST)
4640	XPA2	1-12-2011	2050	msg	MFSK	Thu	(HFD)
4646	M51	23-1-2012	0700	in progress	MCW	Mon	(FMB)
4760	E06	2-12-2011	2130	472-553/15=67489	AM	Fri	(HFD)
4767	M51	11-1-2012	1745	NR 87 J 11 18:45:00 1984 BT	CW		(Spec)
4778	G06	7-12-2011	1200	439 0	AM	Wed	(HFD)
4792	G03	13-1-2012	1930	436 818 15 65754 75786 76890 64346 65768 76897 64356 76892 76897 76879 76589 29867 42345 65478 65456 818 15 00000	AM		(AB)
4792	G06	23-12-2011	1930	436-696/15=56378	AM	Sun	(HFD)
4792	G06	13-1-2012	1930	436-818/15=65754	AM	Fri	(HFD)
4792	G06	14-1-2012	1930	436 818 15 65754 65786	AM		(FN)
4828	M03	8-1-2012	0820	761/00 "VVV" at 0813 UTC	CW		(AB)
4828	M03	12-1-2012	1115	650/00	CW		(FN)
4828	M03	12-1-2012	1320	437/34 = 80005 85064 78745	CW		(FN)
4828	M03	17-1-2012	1115	276/24 "VVV" at 1107 UTC	CW		(AB)
4828	M03	18-1-2012	1115	650/00	CW		(FN)
4828	M03	19-1-2012	1320	437/00	CW		(FN)
4828	M03	21-1-2012	0820	761/00	CW		(FN)
4828	M03	29-1-2012	0820	762/38	CW	Sun	(HFD)
4836	E06	5-1-2012	2031	321 274 15	AM		(Spec)
4845	S06s	5-1-2012	1410	624 809 5 54965 45065 51122 98224 88443 809 5 00000	USB		(AB)
4845	S06s	12-1-2012	1410	624	USB	Thu	(HFD)
4845	S06s	12-1-2012	1410	624 809 5 54965	USB		(FN)
4845	S06s	12-1-2012	1410	624 809 5 54965 45065 51122 98224 88443 809 5 00000	USB		(AB-GRC)
4860	M89	1-1-2012	1820	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Sun) //6840	CW		(JPL-HK)
4860	M89	2-1-2012	0020	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Mon) //6840	CW		(JPL-HK)
4860	M89	2-1-2012	1520	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Mon) //6840	CW		(JPL-HK)
4860	M89	4-1-2012	1320	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Wed) //6840	CW		(JPL-HK)
4860	M89	8-1-2012	1320	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Sun) //6840	CW		(JPL-HK)
4860	M89	8-1-2012	1620	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Sun) //6840	CW		(JPL-HK)
4860	M89	9-1-2012	1720	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Mon) //6840	CW		(JPL-HK)
4860	M89	10-1-2012	1720	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5)	CW		(JPL-HK)
4860	M89	11-1-2012	1620	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Wed) //6840	CW		(JPL-HK)
4860	M89	17-1-2012	1120	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Tue) //6840	CW		(JPL-AUS)
4860	M89	17-1-2012	1220	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Tue) //6840	CW		(JPL-AUS)
4860	M89	17-1-2012	1720	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Tue) //6840	CW		(JPL-AUS)
4860	M89	18-1-2012	0720	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Wed) //6840	CW		(JPL-HK)
4860	M89	18-1-2012	1520	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Wed) //6840	CW		(JPL-HK)
4860	M89	13-12-2012	1520	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Fri) //6840	CW		(JPL-HK)
4865.5	M21	10-1-2012	2014	Russian Air Defense =990014??0?????	CW		(PPA)
4893	E07	4-1-2012	1840	788 1	AM	Wed	(HFD)
4893	E07	15-1-2012	1830	OM/EE 788 788 788 1 821 59 821 59 05487 50714 etc	AM		(AIK)
4893	E07	18-1-2012	1830	788 788 788 1 821 59 821 59 05487 50714 etc	AM		(AB)
4893	E07	18-1-2012	1840	788 1 821 59 05487	AM		(FN)
4893	E07	18-1-2012	1840	OM 788 788 788 1 821 59 05487 50714 05868 25949 85852	AM		(AIK)
4922	S06	3-1-2012	0546	Test count 1-10	USB		(PPA)
4938	E07	7-12-2011	1840	989 1	AM	Wed	(HFD)
4951.5	M21	10-1-2012	2011	Russian Air Defense =990015??0?????	CW		(PPA)
4951.5	M21	25-1-2012	2103	Russian Air Defense =99T1T4??T?????	CW		(VL)
4958	E11	31-1-2012	0012		USB	Tue	(Stefan)
5019	M32	22-12-2011	2214	RJD99: Russian Warship in 5FG tfc: "...02641 45818 ... 12597 22027 = AR RJD99 K. RJD99 RPT 26 = 98326. RJD99 OK QRU K."	CW		(MPJ)
5043	M12	1-12-2011	0500	408 0	CW	Thu	(HFD)
5043	M12	3-1-2012	0500	408 408 408 1 105 131 105 131 74814 05215 17148 96137 50839 etc	CW		(Danix)
5043	M12	17-1-2012	0500	408 408 408 1 msg	CW		(AB)
5070	S06s	1-1-2012	0015		USB	Sun	(Stefan)
5070	S06s	10-1-2012	1500	537 418 6 84403 55345 44135 49154 46531 17531 418 6 00000	USB		(AB)
5070	S06s	17-1-2012	1500	537 802 6 24517 67470 91912 34539 58651 52359 802 6 00000	USB		(AB)



frequency	enigma	date	UTC	remarks	mode	day	contributor
5070	S06s	24-1-2012	1500	537 802 6 24517 67470 91912 34539 58761 52359 802 6 00000	USB		(AB)
5070	S06s	31-1-2012	1500	537 537 537 00000	USB		(AB)
5082	E11	5-1-2012	1730	416/00	USB		(AB)
5082	E11	12-1-2012	1730	416/00	USB		(FN)
5082	E11a	19-1-2012	1730	415/37	USB		(AB)
5100	M32	3-1-2012	0627	Russian Mil simplex net "YBAP QRS? YBAP QTC 435 38 3 1015 435 =232= => 5L msg"	CW		(PPA)
5115	V24	20-12-2011	1459		AM		(TI)
5115	V24	21-12-2011	1400		AM		(TI)
5115	V24	21-12-2011	1459		AM		(TI)
5141	E17?	27-1-2012	1730	(YL/EE) 274(R3) 958 958 30 30 55349 84768..;(OM/EE)2(?)4 (R3)48414 83304..30300	USB	Fri	(FMB)
5146	E07a	8-12-2011	0530	188 1-62128-124/69 =64125	AM	Thu	(HFD)
5154.4	MX	20-1-2012	1251	Beacon "M", Magadan	CW		(AB-HK)
5159	VC01	20-1-2012	1248	Chinese Robot in progress	USB		(AB-HK)
5159.2	MX	27-1-2012	1647	Beacon "F"	CW		(AB-HK)
5164	E07a	4-1-2012	2120	815 1 16663 478 51	AM		(Spec)
5164	E07a	4-1-2012	2120	815 1-16663	AM	Wed	(HFD)
5164	E07a	4-1-2012	2120	815 815 815 1 16663 478 51 42235 48928 14775 ..... 82480 000 000	USB		(AB)
5164	E07a	18-1-2012	2120	OM 815 815 815 000	AM		(AIK)
5164	E07a	25-1-2012	2120	815 1 16663 478 51	AM		(Spec)
5170	MC03	9-1-2012	2028	Chinese Air Defense (50 WPM) cut number strings + local time (UTC+8)	CW		(PPA)
5170	MC03	13-1-2012	1843	Chinese Air Defence. Test string AU34567DNT TU43 (UTC+8)	CW		(PPA)
5170	MC03	20-1-2012	1258	10-count string + time marker AU34567DNT UT5D (UTC+8)	CW		(AB-HK)
5182	E07	18-1-2012	2040	981 1 738 46 78966	AM		(FN)
5182	E07	18-1-2012	2040	OM 981 981 981 1 738 46 78966 54149 12557 28133 03010	AM		(AIK)
5195	VC01	9-1-2012	1322	Chinese Robot in progress	USB		(AB-HK)
5195	VC01	10-1-2012	1331	Chinese Robot in progress	USB		(AB-HK)
5195	VC01	13-1-2012	1601	Chinese Robot in progress	USB		(AB-HK)
5195	VC01	18-1-2012	0812	Chinese Robot in progress	USB		(AB-HK)
5195	VC01	18-1-2012	1312	Chinese Robot in progress	USB		(AB-HK)
5195	VC01	21-1-2012	1319	Chinese Robot in progress	USB		(AB-HK)
5195	VC01	22-1-2012	1404	Chinese Robot in progress	USB		(AB-HK)
5195	VC01	23-1-2012	1310	Chinese Robot in progress	USB		(AB-HK)
5195	VC01	24-1-2012	1233	Chinese Robot in progress	USB		(AB-HK)
5195	VC01	25-1-2012	1440	Chinese Robot in progress	USB		(AB-HK)
5195	VC01	27-1-2012	1644	Chinese Robot in progress	USB		(AB-HK)
5195	VC01	30-1-2012	2114	Chinese Robot in progress	USB		(AB-HK)
5213	M32	13-1-2012	1710	RMP: Russian Navy Kaliningrad tfc to RAL65	CW		(WP3)
5230	M89	2-1-2012	1444	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW		(JPL-HK)
5230	M89	3-1-2012	1407	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW		(JPL-HK)
5230	M89	8-1-2012	1618	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW		(JPL-HK)
5230	M89	8-1-2012	2030	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW		(JPL-HK)
5230	M89	11-1-2012	1610	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW		(JPL-HK)
5240	XPA2	1-12-2011	2110	msg	MFSK	Thu	(HFD)
5250	S06s	17-1-2012	0700	374 816 5 79491 55058 55186 68583 53189 816 5 00000	USB		(AB)
5278	M89	9-1-2012	1017	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW		(JPL-HK)
5278	M89	9-1-2012	1039	In traffic MSG NR 035 CK 301 44 0109 1830 BT 7TT7 D3D4 .... UND3 AR- Repeat of msg 1043z V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW		(JPL-HK)
5278	M89	17-1-2012	1036	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW		(JPL-AUS)
5282.5	M32	21-1-2012	0536	6W4U: CIS military. Duplex net, net control, radio checks with FEA2 R4GM and A4GY	CW		(PPA)
5310	S06s	5-1-2012	1400	624 809 5 54965 45065 51122 98224 88443 809 5 00000	USB		(AB)
5310	S06s	12-1-2012	1240	314 286 5 01928	USB		(FN)
5310	S06s	12-1-2012	1240	314 286 5 01928 76867 78654 34521 67691 286 5 00000	USB		(AB)
5310	S06s	12-1-2012	1400	624 809 5 54965 45065 51122 98224 88443 809 5 00000	USB		(AB-GRC)
5312	M12	28-12-2011	2200	350 1	CW	Wed	(HFD)
5319	M42	24-1-2012	2210	Russian Intel.	FSK 200/1000	Tue	(FMB)
5320	S06s	12-1-2012	1400	624 809 5 54965	USB		(FN)
5320	S06s	12-1-2012	1400	624-809/5=54965	USB	Thu	(HFD)
5321	M01a	19-1-2012	1430	679 32102 679 33512	CW		(FN)



frequency	enigma	date	UTC	remarks	mode	day	contributor
5358	M03	7-1-2012	1140	Barely audibe. "VVV" at 1133 UTC.	CW		(AB)
5358	M03	14-1-2012	1535	798/00	CW		(FN)
5358	M03	17-1-2012	1140	786/00	CW		(AB)
5358	M03	17-1-2012	1535	797/36	CW		(AB)
5358	M03	21-1-2012	1535	797/36 = 44019 48980	CW		(FN)
5363	G06	23-1-2012	0800	215 348 115 5FGs 348 115 00000	AM		(AB)
5376	M32	24-1-2012	2058	QRPD: CIS Mil. Calling NDHV, BGED & 4SMZ in turn without apparent response.	CW		(MPJ)
5391	XPA	10-1-2012	1940	873 873 873 1 6 00397 00195 14968 90969 84098 etc	MFSK		(AiK)
5391	XPA	16-1-2012	1940	873 1 00372 00211 61401 ... 12365 +++++	MFSK		(FN)
5391	XPA	19-1-2012	1940	873 1 00372 00211 61401 ... 12365 +++++	MFSK		(FN)
5391	XPA	31-1-2012	1940	873 873 873 000 873 873 873 000 873 873 873 000 6 07376 00001 00000 10140	MFSK		(AIK)
5392	XPA	3-1-2012	1940	msg	MFSK	Tue	(HFD)
5397	M32	27-1-2012	0542	Russian Mil. 9NOA clg A29N net control	CW		(PPA)
5417	XPA2	3-1-2012	2110	msg	MFSK	Tue	(HFD)
5417	XPA2	10-1-2012	2110	00467 00179 50793 39171 73573 17441 69780 59018 88109 69411 07477 9755 15913 etc	MFSK		(AiK)
5417	XPA2	17-1-2012	2110	01752 00001 00000 10140	MFSK		(AIK)
5417	XPA2	24-1-2012	2110	884 00193 29174 .....	MFSK		(AIK)
5417	XPA2	31-1-2012	2110	0133 00001 000 10140	MFSK		(AIK)
5418	M32	24-1-2012	2102	Russian Mil. 3XNS DE 2FDY K, 3XNS DE 2FDY K, 3XNS DE 2FDY K, 6PPU DE 2FDY K	CW		(AIK)
5447	E07	1-12-2011	2130	744 1	AM	Thu	(HFD)
5448	S30	1-1-2012	0734	Dlya CIHS Zh1TR Z7PM 'O6P JH'J DMC3 49FT C2ZA LI27 INNC	USB		(Tucana)
5448	S30	2-1-2012	0710	Dlya VKY1 HCLF 61HZh ZBIL L7O5 V'Z' NLCYe V2MZ SB7Z TAZ7	USB		(Tucana)
5448	S30	4-1-2012	1136	Unreadable (Dlya)	USB		(Tucana)
5448	S30	4-1-2012	1249	8S1Shch 76 815 STYDLIVEC 40 43 27 89	USB		(Tucana)
5448	S30	5-1-2012	0453	Dlya JH'J DMC3 49FT C2ZA LI27 INNC ShchGJP 8CSchJ TZLM FY5Ye	USB		(Tucana)
5448	S30	5-1-2012	0601	Dlya F61N 37CN MUDR 7VNSch Zh7NZh YMA5 VTH3 AGDT 'U1B OSOG	USB		(Tucana)
5448	S30	6-1-2012	0909	Unreadable (Dlya)	USB		(Tucana)
5448	S30	6-1-2012	1243	Dlya 6YeHB CP3' ShchT3O CIHS Zh1TR Z7PM 'O6P JH'J DMC3 49FT	USB		(Tucana)
5448	S30	7-1-2012	0655	Dlya ZhBZU 4RVZ 3VS' DKJ1 6I2Zh ZhD9V SJ5C 62BV 81BR M7KS	USB		(Tucana)
5448	S30	9-1-2012	0556	Dlya 3VS' DKJ1 6I2Zh ZhD9V SJ5C 62BV 81BR M7KS PMV5 L'GJ	USB		(Tucana)
5448	S30	9-1-2012	0611	Pip	CW		(AB)
5448	S30	9-1-2012	0710	8S1Shch 68 669 AVTOSCEPKA 43 21 81 19	USB		(Tucana)
5448	S30	9-1-2012	1119	Dlya TshchShchS VKY1 HCLF 61HZh ZBIL L7O5 V'Z' NLCYe V2MZ SB7Z	USB		(Tucana)
5448	S30	10-1-2012	0737	Unreadable (Dlya)	USB		(Tucana)
5448	S30	10-1-2012	1236	Unreadable (Dlya)	USB		(Tucana)
5448	S30	12-1-2012	0722	Unreadable (Dlya)	USB		(Tucana)
5448	S30	12-1-2012	0832	Unreadable (8S1Shch)	USB		(Tucana)
5448	S30	13-1-2012	0515	Pip marker	CW		(AB)
5448	S30	13-1-2012	0648	Dlya TUZR 5J7Shch 27Shch' N1DU 53OB 78MV A3PS 'MSV YGJ' 12CI	USB		(Tucana)
5448	S30	15-1-2012	1240	Unreadable (8S1Shch)	USB		(Tucana)
5448	S30	16-1-2012	0816	Unreadable (Dlya)	USB		(Tucana)
5448	S30	17-1-2012	0609	Dlya INNC ShchGJP 8CSchJ TZLM FY5Ye F61N 37CN MUDR 7VNSch Zh7NZh	USB		(Tucana)
5448	S30	17-1-2012	1252	Dlya YMA5 VTH3 AGDT 'U1B OSOG BO6C F56Shch 9GSA ZhBZU 4RVZ	USB		(Tucana)
5448	S30	18-1-2012	0436	Dlya TshchShchS VKY1 HCLF 61HZh ZBIL L7O5 V'Z' NLCYe V2MZ SB7Z	USB		(Tucana)
5448	S30	19-1-2012	0601	8S1Shch 21 681 PEREKATKA 34 16 05 28	USB		(Tucana)
5448	S30	21-1-2012	0604	Dlya OSOG BO6C F56Shch 9GSA ZhBZU 4RVZ 3VS' DKJ1 6I2Zh ZhD9V	USB		(Tucana)
5448	S30	23-1-2012	0450	Dlya F56Shch 9GSA ZhBZU 4RVZ 3VS' DKJ1 6I2Zh ZhD9V SJ5C 62BV	USB		(Tucana)
5448	S30	24-1-2012	0648	Dlya C2ZA LI27 INNC ShchGJP 8CSchJ TZLM FY5Ye F61N 37CN MUDR	USB		(Tucana)
5448	S30	25-1-2012	0500	Dlya PMV5 L'GJ TshchShchS VKY1 HCLF 61HZh ZBIL L7O5 V'Z' NLCYe	USB		(Tucana)
5448	S30	25-1-2012	0601	8S1Shch 39 711 GLIZANTIN 26 27 33 93	USB		(Tucana)
5448	S30	25-1-2012	0747	Dlya V2MZ SB7Z TAZ7 PYCM Y8VM 8MUO TUZR 5J7Shch 27Shch' N1DU	USB		(Tucana)
5448	S30	26-1-2012	0448	Dlya INNC ShchGJP 8CSchJ TZLM FY5Ye F61N 37CN MUDR 7VNSch Zh7NZh	USB		(Tucana)
5448	S30	26-1-2012	0603	8S1Shch 49 899 OKRUZHAN 28 84 31 57	USB		(Tucana)
5448	S30	27-1-2012	0442	Dlya L'GJ TshchShchS VKY1 HCLF 61HZh ZBIL L7O5 V'Z' NLCYe V2MZ	USB		(Tucana)



frequency	enigma	date	UTC	remarks	mode	day	contributor
5448	S30	27-1-2012	0500	8C1Shch 63 007 GALAD'Ya 68 43 83 69 MOTOVAGON 49 44 39 45	USB		(Tucana)
5448	S30	27-1-2012	1336	Unreadable (Dlya)	USB		(Tucana)
5448	S30	29-1-2012	0656	Dlya 'MSV YGJ' 12CI 79AJ P'HShch 6YeHB CP3' ShchT3O CIHS Zh1TR	USB		(Tucana)
5448	S30	30-1-2012	1250	Unreadable (8S1Shch)	USB		(Tucana)
5463	G06	19-12-2011	0800	215 0	AM	Mon	(HFD)
5465	M01	18-12-2011	0700	197	CW	Sun	(HFD)
5467	XPA	3-1-2012	1420	msg	MFSK	Tue	(HFD)
5467	XPA	17-1-2012	1420	Msg	MFSK		(AB)
5467	XPA	24-1-2012	1420	Msg. Very weak	MFSK		(AB)
5467	XPA	31-1-2012	1420	845 845 845 000 845 845 845 000 845 845 845 000 6 08190 00001 00000 10140	MFSK		(AIK)
5473	S32	9-1-2012	0611	Squeaky Wheel	USB		(AB)
5473	S32	12-1-2012	1029	Al'fa45 31 396 ORIENTACIYa 27 13 37 70	USB		(Avare)
5473	S32	13-1-2012	0514	Squeaky Wheel marker	USB		(AB)
5500	M89	1-1-2012	1125	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW		(JPL-HK)
5500	M89	1-1-2012	1808	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW		(JPL-HK)
5500	M89	2-1-2012	1441	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW		(JPL-HK)
5500	M89	3-1-2012	1403	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW		(JPL-HK)
5500	M89	4-1-2012	1311	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW		(JPL-HK)
5500	M89	8-1-2012	1325	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW		(JPL-HK)
5500	M89	8-1-2012	1616	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW		(JPL-HK)
5500	M89	9-1-2012	1008	In traffic UGT COMM BT 6633/1550/Z91/3083 AR V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW		(JPL-HK)
5500	M89	18-1-2012	1438	VVV 7NPE (x3) DE QV5B (x2) (Cont'd)	CW		(JPL-HK)
5500	M89	18-1-2012	1753	VVV 7NPE (x3) DE QV5B (x2) (Cont'd)	CW		(JPL-HK)
5500	M89	24-1-2012	2007	QV5B: Chinese Forces	CW		(VL)
5500	M89	31-1-2012	1623	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW		(JPL-HK)
5637	V21	10-1-2012	1420	too much interference to copy	USB		(CS)
5637	V21	11-1-2012	1400	Babbler	USB		(westli)
5715	V24	19-12-2011	1302	in progress	AM		(TI)
5715	V24	20-12-2011	1429		AM		(TI)
5715	V24	21-12-2011	1459		AM		(TI)
5783	E06	7-1-2012	0130	759 246 31	AM		(Spec)
5783	E06	8-1-2012	0130	759 246 31	AM		(Spec)
5783	E06	14-1-2012	0130	759 681 34	AM		(Spec)
5783	E06	15-1-2012	0130	759 681 34	AM		(Spec)
5783	E06	21-1-2012	0130	759 184 32	AM		(Spec)
5783	E06	22-1-2012	0130	759 184 32	AM		(Spec)
5783	E06	28-1-2012	0130	759 468 31	AM		(Spec)
5783	E06	29-1-2012	0130	759 468 31	AM		(Spec)
5796	E06	1-1-2012	0130	759 180 32	AM		(Spec)
5796	E06	1-1-2012	0130	Russian Man!	AM	Sun	(Saber)
5800	M08a	8-1-2012	0626	in progress	CW		(norave)
5800	M08a	26-1-2012	0600	53272 43301 65372	MCW	Thu	(MS)
5800	M08a	28-1-2012	0600	05601 75862 56331	MCW	Sat	(MS)
5800	M08a	31-1-2012	0600	71822 88542 50161	MCW	Tue	(MS)
5810	M01	14-1-2012	1500	197 229 30 = 26489 19946 28356 17517 etc	CW		(FN)
5810	M01	14-1-2012	1535	798/00	CW		(FN)
5810	M01b	16-12-2011	1615	158-738/30=02372	CW	Fri	(HFD)
5810	M03	14-1-2012	1500	197 barely audible	CW		(AB)
5810	S06s	24-1-2012	1230	278 931 5 45011 98224 88445 12854 931 5 00000	USB		(AB)
5810	S06s	31-1-2012	0012		USB	Tue	(Stefan)
5811	M01	21-1-2012	1500	197 305 30 = msg	CW		(FN)
5811	M01	21-1-2012	1615	158 445 45 = 29769	CW		(FN)
5836	E07	7-12-2011	1820	989 1	AM	Wed	(HFD)
5836	E07	4-1-2012	1820	788 1	AM	Wed	(HFD)
5836	E07	11-1-2012	1820	OM 788 788 788 000	AM		(AIK)
5836	E07	15-1-2012	1820	OM/EE 788 788 788 1 821 59 821 59 05487 50714 etc	AM		(AIK)
5836	E07	18-1-2012	1820	788 1 821 59 05487	AM		(FN)
5836	E07	18-1-2012	1820	788 788 788 1 821 59 821 59 05487 50714 etc	AM		(AB)



frequency	enigma	date	UTC	remarks	mode	day	contributor
5836	E07	18-1-2012	1820	OM 788 788 788 1 821 59 05487 50714 05868 25949 85852	AM		(AIK)
5843	M12	3-1-2012	0520	408 408 408 1 105 131 105 131 74814 05215 17148 96137 50839 etc	CW		(Danix)
5843	M12	17-1-2012	0520	408 408 408 1 msg	CW		(AB)
5846	E07a	8-12-2011	0550	188 1-62128	AM	Thu	(HFD)
5864	E07	11-1-2012	2100	OM 815 815 815 000	USB		(AIK)
5864	E07a	4-1-2012	2100	815 1 16663 478 51	AM		(Spec)
5864	E07a	4-1-2012	2100	815 1-16663-478/51 =42235	Am	Wed	(HFD)
5864	E07a	4-1-2012	2100	815 815 815 1 16663 478 51 42235 48928 14775 ..... 82480 000 000	USB		(AB)
5864	E07a	18-1-2012	2100	OM 815 815 815 000	AM		(AIK)
5864	E07a	25-1-2012	2100	815 1 16663 478 51	AM		(Spec)
5864	XPA	1-12-2011	1940	msg	MFSK	Thu	(HFD)
5867	XPA	3-1-2012	1400	msg	AM	Tue	(HFD)
5867	XPA	17-1-2012	1400	Msg	MFSK		(AB)
5867	XPA	31-1-2012	1400	845 845 845 000 845 845 845 000 845 845 845 000...6 08192 9 0 1 00874 340	MFSK		(AIK)
5882	E07	9-1-2012	2020	981 981 981 000	AM		(AiK)
5882	E07	11-1-2012	2020	981 0	AM	Wed	(HFD)
5882	E07	11-1-2012	2020	OM 981 981 981 000	AM		(AIK)
5882	E07	18-1-2012	2020	981 1 738 46 78966	AM		(FN)
5882	E07	18-1-2012	2020	OM 981 981 981 1 738 46 78966 54149 12557 28133 03010	AM		(AIK)
5882	E07	30-1-2012	2020	981 981 981 000	AM		(AIK)
5883	V02a	7-1-2012	0732	DGI in progress	AM		(AB-FL)
5883	V02a	12-1-2012	0700	Atencion 47811 22402 26121 ...	AM		(Dan)
5883	V02a	14-1-2012	0700	Atencion 13632 28761 16231 LG 26607	AM		(Dan)
5883	V02a	26-1-2012	0700	A 45001 62321 18461	MFSK	Thu	(MS)
5890	M51	23-1-2012	0700	in progress	MCW	Mon	(FMB)
5895	M51	23-1-2012	1607	in progress	MCW	Mon	(FMB)
5896	M51	27-1-2012	1000	in progress	MCW	Fri	(FMB)
5898	M08a	27-1-2012	0500	Very strong signal, full quieting. Carrier up at 0500, message began at 0510. 5fgs	AM	Fri	(DZ)
5898	V02a	7-1-2012	0803	Atencion 5FGs	AM		(AB-FL)
5898	V02a	26-1-2012	0800	A 45001 62321 18461	MFSK	Thu	(MS)
5898	V02a	31-1-2012	0800	A 84471 83202 14672	MFSK	Tue	(MS)
5930	SK01	26-1-2012	0930	Cuban DGI	RDFT	Thu	(MS)
5930	SK01	28-1-2012	0930	Cuban DGI	RDFT	Sat	(MS)
5941	M01	19-1-2012	1605	159 445 34 = 29769	CW		(FN)
5947	SK01	26-1-2012	0900	Cuban DGI	RDFT	Thu	(MS)
5947	SK01	28-1-2012	0900	Cuban DGI	RDFT	Sat	(MS)
6140	E25	6-1-2012	0929	133 9316 0288 1706 4534 7571 2882 6495 135 70 tone, YL, 13 rptd, Mx3, WinXP sounds	AM		(MG)
6140	E25	8-1-2012	0758	116 2290 1532 3440 8822 4162 4660 9708 6176 5441 tone, YL, WinXP beeps, EOM	USB		(MG)
6140	E25	8-1-2012	0759	116 116 116 MSG 3x 2290 1532 3440 8822 4162 4660 9708 6176 5441 RBT 3x EOM	USB		(Avare)
6140	E25	9-1-2012	0931	133 1222 3319 1733 3139 2722 5175 4768 1224 7499 tone, YL, WinXP sounds	USB		(MG)
6140	E25	9-1-2012	1115	880 6130 2190 1099 4796 8321 5657 1829 6264 6130 tone, YL, EOM	USB		(MG)
6140	E25	10-1-2012	0929	133 1222 3319 1733 3139 2722 5175 4768 1224 7499 tone, YL, EOM	AM		(MG)
6140	E25	10-1-2012	0930	133 133 133 MSG 3x 1222 3319 1733 3139 2722 5175 4768 1224 7499 RBT 3x EOM	USB		(Avare)
6140	E25	10-1-2012	1029	672 2523 6046 6527 2218 0139 7678 5550 4471 9949 8025 3328 7613 2047 1860 tone, YL, EOM	AM		(MG)
6140	E25	11-1-2012	1029	672 tone, YL, EOM only	USB		(MG)
6140	E25	12-1-2012	0828	701 2711 3311 1270 2435 1190 2972 3311 tone, YL, EOM, dings, EOT twice	AM		(MG)
6140	E25	12-1-2012	0830	701 MSG 3x 2711 3311 1270 2435 1190 2972 3311 RBT 3x EOM EO (windows sound) EOT	USB		(Avare)
6140	E25	12-1-2012	0929	133 7658 3342 9255 8687 9076 1920 2197 2169 6842 3967 7686 4842 tone, YL, EOM	AM		(MG)
6140	E25	12-1-2012	0929	YL 133 133 133... MESSAGE MESSAGE MESSAGE 7658 3342 9255 8687 9076 1920 2197 2169 6842 3967 7686 4842 REBEAT REBEAT 7658 3342 9255 8687 9076 1920 2197 2169 6842 3967 7686 4842 END OF MES-	AM		(AIK)



frequency	enigma	date	UTC	remarks	mode	day	contributor
SAGE							
6140	E25	12-1-2012	1115	YL 887 1 887 10 887 10...887 10 887 10 887 1 pause 10 887 10 887 10	AM		(AIK)
				Windows sound 1 tone			
6140	E25	13-1-2012	0929	133 tone, YL	AM		(MG)
6140	E25	13-1-2012	1118	887 10 tone, YL, Mx3, Rx3, EOM	AM		(MG)
6140	E25	15-1-2012	0914	950 3011 6666 6660 1267 7186 8702 3750 0781 8423 6728 6660]0918z carrier 0906z, WinXP "dings", tone, YL, EOM, carrier, AM, UN	AM		(MG)
6140	E25	15-1-2012	0944	350 6668 6660 2060 0048 1624 6660]0951z carrier i.p., WinXP "dings", tone, IO, YL, EOM,	AM		(MG)
6140	E25	15-1-2012	0959	570 5636 5066 9508 0828 3951 9929]1002z tone, YL, EOM MG SUN	AM		(MG)
6140	E25	16-1-2012	0814	185 8494 6060 1324 6586 3938 7261 7903]0817z tone, YL	AM		(MG)
6140	E25	16-1-2012	0829	701 1011 1310 2280 7658 5749 3675 1119 1310]0835z tone, YL	AM		(MG)
6140	E25	16-1-2012	0929	133 9755 8304 9199 4853 9499 135 71]0934z, tone, YL	AM		(MG)
6140	E25	16-1-2012	1136	Ahwak at least twice, WinXP "dings", low audio, 1148z tone till at least 1200z	AM		(MG)
6140	E25	17-1-2012	0930	133 135 71 tone, YL	AM		(MG)
6140	E25	17-1-2012	1045	128 4561 1060 7120 9250 6685 7120 tone, YL	AM		(MG)
6140	E25	18-1-2012	0800	360 8560 6110 6012 7457 6110 1007 tone, YL, 360 twice then 361, carrier, tone	AM		(MG)
6140	E25	18-1-2012	0827	702 23 tone, YL, Mx3, Rx3, EOM	AM		(MG)
6140	E25	18-1-2012	1045	128 tone, YL, EOM, low power	AM		(MG)
6140	E25	18-1-2012	1050	128 YL, EOM, a bit louder	AM		(MG)
6140	E25	21-1-2012	1043	YL 128 128 128... MESSAGE MESSAGE MESSAGE 9766 2001 8020 8859 8844 2009 6605 7266 9854 8020 REBEAT REBEAT REBEAT 9766 2001 8020 8859 9766 2001 8020 8859 EOM Windows ding, 1037 Windows ding, 1038 UTC 7 Windows dings	AM		(AIK)
6140	E25	21-1-2012	1045	128 9766 2001 8020 8859 8844 2009 6605 7266 9854 8020 tone, YL, AM, EOM	AM		(MG)
6140	E25	22-1-2012	0902	111 5251 8661 3041 0155 8637 3075 6805 9982 1432 1153 6169 5487 9489 8661. 0908 UTC: YL 755 86, tone, YL, EOM, brief tone	AM		(MG)
6140	E25a	6-1-2012	0816	187 8 tone, YL, Mx3, Rx3, EOM	AM		(MG)
6140	E25a	9-1-2012	0800	117 9 116 9 117 9	USB		(Avare)
6140	E25a	10-1-2012	1045	126 50 tone, YL, Mx3	AM		(MG)
6140	E25a	12-1-2012	1115	887 10 etc EOM EOT	AM		(AB-GRC)
6140	E25a	14-1-2012	1030	675 89 tone, YL, carrier QRT 1054z. Carrier sessions since 0844z	USB		(MG)
6140	E25a	19-1-2012	0803	364 11 YL i.p., Mx3, Rx3, EOM EOT, off-freq	AM		(MG)
6140	E25a	22-1-2012	1052	149 51 tone, YL	AM		(MG)
6140	E25a	23-1-2012	1114	887 11. 1120 UTC: tone, YL, Mx2	AM		(MG)
6140	E25a	24-1-2012	0800	017 92. 0805 UTC: carrier, very low music, WinXP sounds i.p. 0750 UTC: tone, YL, Mx3	AM		(MG)
6140	E25a	26-1-2012	0844	162 82 YL i.p., Mx3	AM		(MG)
6215	V24	26-8-2011	1500		AM		(TI)
6215	V24	19-12-2011	1500		AM		(TI)
6250	XSL	11-1-2012	1300	slot machine	QPSK		(Westli)
6305	S06s	11-1-2012	1210	481 297 5 48490 96555 52595 77715 92508 297 5 00000	USB		(AB)
6308	M32	13-1-2012	1540	RMZW: Russian Navy. Opchat on 12464/10543 with RCV - qsx 6308	F1B 75/200		(WP3)
6320	S06s	17-1-2012	0715	374 816 5 79491 55058 55186 68583 53189 816 5 00000	USB		(AB)
6337	S06s	10-1-2012	1510	537 418 6 84403 55345 44135 49154 46531 17531 418 6 00000	USB		(AB)
6337	S06s	17-1-2012	1510	537 802 6 24517 67470 91912 34539 58651 52359 802 6 00000	USB		(AB)
6337	S06s	24-1-2012	1510	537 802 6 24517 67470 91912 34539 58761 52359 802 6 00000	USB		(AB)
6337	S06s	31-1-2012	0015		USB	Tue	(Stefan)
6337	S06s	31-1-2012	1510	537 537 537 00000	USB		(AB)
6378	M22	21-1-2012	0116	4xz (i.p.)	CW	Sat	
6379	M22	8-1-2012	0615	4ZX in progress	CW		(norave)
6379	M22	15-1-2012	0354	vvv de 4xz 4xz ---- -----	CW		(Tom)
6379	M22	19-1-2012	2012	4XZ on several new freqs: 4595//4331//6379	CW		(Danix)
6379	M22	20-1-2012	0558	4XZ on unusual freqs: 4331//4595//6379//6607 kHz	CW		(Danix)
6379	M22	20-1-2012	1845	4XZ "VVV" marker 4331//4595//6379//6607 kHz	CW		(Tom)
6379	M22	20-1-2012	2245	4XZ in progress 2680//4331//4595//6379//6607 kHz	CW		(AnEur)
6379	M22	23-1-2012	1620	4XZ in progress 2680//2860//4331//4595//6379//6607 kHz	CW		(AB)
6379	M22	24-1-2012	1941	4XZ in progress on 4331//4595//6379//6607 kHz	CW		(AB)
6379	M22	24-1-2012	1950	4XZ: ISR Haifa Naval 1943 CW VVV DE 4XZ	CW		(VL)



frequency	enigma	date	UTC	remarks	mode	day	contributor
6379	M22	27-1-2012	2008	4XZ in progress	CW		(ML4)
6379	M22	30-1-2012	2215	4XZ: IN Haifa "==" NR 146 SB V RX9U 019103 MR9J GR 02 == AR AR VVV DE 4XZ 4XZ = = VVV DE 4XZ 4XZ = ="	CW		(WP3)
6420	S06s	11-1-2012	1240	967 243 5 79556 47824 65249 11459 58977 243 5 00000	USB		(AB)
6433	G11	14-1-2012	1325	299/00	USB		(AB)
6433	G11	14-1-2012	1325	299/00	USB		(FN)
6433	G11	15-1-2012	1755	YL 270/00	USB		(AIK)
6433	G11	20-1-2012	1325	293/36	USB		(AB)
6433	G11	21-1-2012	1325	293/36	USB		(AB)
6433	G11	24-1-2012	1755	YL 278/98	USB		(AIK)
6433	G11	31-1-2012	0017	covered by digital tx	USB	Tue	(Stefan)
6433	G11	31-1-2012	1755	270/00	USB		(AIK)
6433	S11a	11-1-2012	1020	221/00	USB		(AB)
6433	S11a	14-1-2012	1020	221/00	USB		(AB)
6433	S11a	14-1-2012	1020	221/00	USB		(FN)
6433	S11a	18-1-2012	1020	221/00	USB		(AB)
6445	XSL	11-1-2012	1300	slot machine	QPSK		(Westli)
6480	G11	12-1-2011	0940	270/00	USB		(AB)
6480	G11	9-1-2012	0940	275/00	USB		(AB)
6480	G11	16-1-2012	0940	275/00	USB		(AB)
6480	G11	23-1-2012	0940	278/38 Achtung 57297 96368 22562 etc 91081 Achtung -repeat msg- Ende	USB		(AB)
6528	VC03	10-1-2012	1459	Chinese oddity station w/ YL repeating 4 figure groups	USB		(BCA)
6607	M22	19-1-2012	2159	4XZ, Israeli Navy, Haifa "vvv de 4xz 4xz 4xz BT BT" marker	CW		(MCO)
6607	M22	20-1-2012	0558	4XZ on unusual freqs: 4331//4595//6379//6607 kHz	CW		(Danix)
6607	M22	20-1-2012	1845	4XZ "VVV" marker 4331//4595//6379//6607 kHz	CW		(Tom)
6607	M22	20-1-2012	2211	4XZ - Israeli Navy	CW		(norave)
6607	M22	20-1-2012	2245	4XZ in progress 2680//4331//4595//6379//6607 kHz	CW		(AnEur)
6607	M22	21-1-2012	0004	4XZ: ISR Haifa Naval VVV DE 4XZ	CW		(VL)
6607	M22	21-1-2012	0116	4xz (i.p.)	CW	Sat	
6607	M22	23-1-2012	1620	4XZ in progress 2680//2860//4331//4595//6379//6607 kHz	CW		(AB)
6607	M22	24-1-2012	1941	4XZ in progress on 4331//4595//6379//6607 kHz	CW		(AB)
6607	M22	24-1-2012	1952	4XZ: ISR Haifa Naval 1943 CW VVV DE 4XZ	CW		(VL)
6668	S06s	2-1-2012	1610	176 293 5 84588 48102 44029 46311 23124 293 5 00000 Windows XP shutdown sound	USB		(Daunt)
6668	S06s	16-1-2012	1610	176 203 5 54965 45055 51122 98224 33445 203 5 00000	USB		(AB)
6668	S06s	23-1-2012	1610	176 203 5 54965 45055 51122 91224 33445 203 5 00000	USB		(AB)
6669	S06	23-1-2012	1613	176	USB	Mon	(FMB)
6773	M89	8-1-2012	0804	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW		(JPL-HK)
6774	E07	4-1-2012	1800	788 1-481/55=##602	AM	Wed	(HFD)
6774	E07	11-1-2012	1800	OM 788 788 788 000	AM		(AIK)
6774	E07	15-1-2012	1800	OM/EE 788 788 788 1 821 59 821 59 05487 50714 etc	AM		(AIK)
6774	E07	18-1-2012	1800	788 1 821 59 05487	AM		(FN)
6774	E07	18-1-2012	1800	788 788 788 1 821 59 821 59 05487 50714 etc	AM		(AB)
6774	E07	18-1-2012	1800	OM 788 788 788 1 821 59 05487 50714 05868 25949 85852	AM		(AIK)
6777	E07	1-12-2011	2110	744 1-582/47=59126	AM	Thu	(HFD)
6778	E07	5-12-2011	2020	472 0	AM	Mon	(HFD)
6779	S06s	24-1-2012	1240	278 931 5 45011 98224 88445 12854 931 5 00000	USB		(AB)
6788	S06	24-12-2011	1605	134 0	AM	Sat	(HFD)
6788	S06	14-1-2012	1605	134 134 134 00000	AM		(FN)
6788	S06	21-1-2012	1605	134 134 134 00000	AM		(FN)
6791	XPA	3-1-2012	1920	msg	MFSK	Tue	(HFD)
6791	XPA	10-1-2012	1920	873 873 873 1 6 00397 00195 14968 90969 84098 etc	MFSK		(AiK)
6791	XPA	19-1-2012	1920	873 1 00372 00211 61401 ... 12365 +++++	MFSK		(FN)
6791	XPA	31-1-2012	1920	873 873 873 000 873 873 873 000 873 873 873 000 6 07376 00001 00000 10140	MFSK		(AIK)
6792	M42	24-1-2012	2200	Russian Intel.	FSK 200/1000	Tue	(FMB)
6797	M42	24-1-2012	2310	Russian Intel.	FSK 200/1000	Tue	(FMB)
6807	M42	3-1-2012	0820	Russian Gov/Intel.	FSK 200/1000 (ACF=288)		(linkz)
6825	M51	3-1-2012	0924	5 letters blocks "bt nr67j 0310"	CW		(ML4)



frequency	enigma	date	UTC	remarks	mode	day	contributor
6825	M51	5-1-2012	0941	FAV22	CW		(ML4)
6840	M89	1-1-2012	1820	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Sun) //4860	CW		(JPL-HK)
6840	M89	2-1-2012	0020	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Mon) //4860	CW		(JPL-HK)
6840	M89	2-1-2012	0620	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Mon) //10640	CW		(JPL-HK)
6840	M89	2-1-2012	1520	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Mon) //4860	CW		(JPL-HK)
6840	M89	4-1-2012	1320	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Wed) //4860	CW		(JPL-HK)
6840	M89	8-1-2012	0820	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Sun) //10640	CW		(JPL-HK)
6840	M89	8-1-2012	1320	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Sun) //4860	CW		(JPL-HK)
6840	M89	8-1-2012	1620	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Sun) //4860	CW		(JPL-HK)
6840	M89	9-1-2012	0420	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Mon) //10640	CW		(JPL-HK)
6840	M89	9-1-2012	1020	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Mon) //10640	CW		(JPL-HK)
6840	M89	9-1-2012	1720	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Mon) //4860	CW		(JPL-HK)
6840	M89	11-1-2012	0120	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Wed) //10640	CW		(JPL-HK)
6840	M89	11-1-2012	1620	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Wed) //4860	CW		(JPL-HK)
6840	M89	17-1-2012	1120	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Tue) //4860	CW		(JPL-AUS)
6840	M89	17-1-2012	1220	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Tue) //4860	CW		(JPL-AUS)
6840	M89	17-1-2012	1720	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Tue) //4860	CW		(JPL-AUS)
6840	M89	18-1-2012	0720	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Wed) //4860	CW		(JPL-HK)
6840	M89	18-1-2012	1520	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Wed) //4860	CW		(JPL-HK)
6840	M89	19-1-2012	0220	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Thus) //10640	CW		(JPL-HK)
6840	M89	13-12-2012	1520	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Fri) //4860	CW		(JPL-HK)
6846	E07a	8-12-2011	0610	188 1-62128	AM	Thu	(HFD)
6854	M08a	26-1-2012	2200	40222 70822 40582 (At 2209z, station changed to correct freq of 8009m)	CW	Thu	(MS)
6880	S06s	25-1-2012	0820	471 906 5 78563 45215 79806 34216 67452 906 5 00000	USB		(AB)
6904	M12	16-1-2012	1940	257 3433 62 45393	CW		(FN)
6930	S6930	27-12-2011	0749	Katok msg	USB		(ScSw)
6982	E07	7-12-2011	1800	989 1-931/76=51525	AM	Wed	(HFD)
6982	E07	11-1-2012	2000	981 0	AM	Wed	(HFD)
6982	E07	11-1-2012	2000	OM 981 981 981 000	AM		(AIK)
6982	E07	18-1-2012	2000	981 1 738 46 78966	AM		(FN)
6982	E07	18-1-2012	2000	OM 981 981 981 1 738 46 78966 54149 12557 28133 03010	AM		(AIK)
6982	E07	30-1-2012	2000	981 981 981 000	AM		(AIK)
7030	S06s	11-1-2012	1200	481 297 5 48490 96555 52595 77715 92508 297 5 00000	USB		(AB)
7038.7	MX	20-1-2012	2233	Beacon "D"	CW		(norave)
7039	MX	20-1-2012	2233	Beacon "C"	CW		(norave)
7039.4	MX	27-1-2012	1647	Beacon "M"	CW		(AB-HK)
7054	M32	12-1-2012	0500	Russian Air Force: REA4	CW		(AnEur)
7150	S06s	16-12-2011	0700	196-873/5=41426	USB	Fri	(HFD)
7150	S06s	6-1-2012	0700	196 802 5 73574 74501 45510 48743 53224 802 5 00000	USB		(AB)
7150	S06s	13-1-2012	0700	196 802 5 73574 74501 45510 48743 53224 802 5 00000	USB		(AB)
7317	E11	12-1-2012	0820	438/00	USB		(AB)
7317	E11	12-1-2012	0820	438/00	USB		(Avare)
7317	E11a	19-1-2012	0820	434/35	USB		(AB)
7317	E11a	19-1-2012	0820	434/35 46728 10585	USB		(FN)
7335	S06s	28-12-2011	0830	745-313/6=67453	USB	Wed	(HFD)
7335	S06s	4-1-2012	0830	745 913 6 84535 50820 07144 22450 96373 56890 913 6 00000	USB		(AB)
7335	S06s	18-1-2012	0830	745 238 6 67656 90895 34215 67453 89777 44511 238 6 00000	USB		(AB)
7335	S06s	25-1-2012	0830	745 238 6 67656 90895 34215 67453 89777 44511 238 6 00000	USB		(AB)
7436	S06s	16-1-2012	1600	176 203 5 54965 45055 51122 98224 33445 203 5 00000	USB		(AB)
7436	S06s	23-1-2012	1600	176 203 5 54965 45055 51122 91224 33445 203 5 00000	USB		(AB)
7478	E07	5-12-2011	2000	472 0	AM	Mon	(HFD)
7491	XPA2	10-1-2012	0200	Very weak.	MFSK	Tue	(Pres)
7504	S11a	6-1-2012	0915	484/00	USB		(AB)
7504	S11a	13-1-2012	0915	484/00	USB		(AB)
7504	S11a	17-1-2012	0915	484/37	USB		(AB)
7504	S11a	31-1-2012	0009	Message: Null	USB	Tue	(Stefan)
7519	M08a	27-1-2012	2200	21112 15801 30351	CW	Fri	(MS)
7520	S06s	11-1-2012	1910	YL 371 371 371... 509 509 6 6 25594 25594 55094 55094 53555 53555 97554 97554 55833 55833 33577 33577 509 509 6 6 00000	USB		(AIK)



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7520	S06s	18-1-2012	1910	371 528 6 39674	USB		(FN)
7520	S06s	18-1-2012	1910	371 528 6 39674 66442 47392 99451 18212 34598 528 6 00000	USB		(AB)
7566	M32	27-1-2012	0349	Russian navy Sevastopol "RIP90 DE RCV QTC"	CW		(PPA)
7580	V13	4-1-2011	1205	New Star in progress	USB		(AB-HK)
7580	V13	5-1-2011	1300	New Star YL/CC numbers stn w/4F msg	AM		(N2UHC)
7580	V13	10-1-2011	1328	New Star in progress	USB		(AB-HK)
7580	V13	11-1-2011	1200	New Star	AM		(TI)
7580	V13	15-10-2011	0600	New Star	AM		(TI)
7580	V13	17-10-2011	0300	New Star	AM		(TI)
7580	V13	4-1-2012	1200	New Star. Clearly audible under Voice of Korea in Japanese.	USB		(swl73oz)
7580	V13	4-1-2012	1300	New Star	USB		(swl73oz)
7580	V13	6-1-2012	0600	New Star #4. Flute tune followed by coded messages	USB		(AB-HK)
7580	V13	6-1-2012	1200	New Star #4. Flute tune followed by coded messages	USB		(AB-HK)
7580	V13	6-1-2012	1300	New Star #4. Flute tune followed by coded messages	USB		(AB-HK)
7580	V13	9-1-2012	0612	New Star in progress	USB		(AB-HK)
7580	V13	9-1-2012	1220	New Star in progress	USB		(AB-HK)
7580	V13	9-1-2012	1300	New Star. Flute tune + coded messages	USB		(AB-HK)
7580	V13	10-1-2012	0605	New Star in progress	USB		(AB-HK)
7580	V13	11-1-2012	0620	New Star in progress	USB		(AB-HK)
7580	V13	11-1-2012	1224	New Star in progress	USB		(AB-HK)
7580	V13	12-1-2012	0508	New Star in progress	USB		(AB-HK)
7580	V13	12-1-2012	0600	New Star #4. Flute tune + coded messages	USB		(AB-HK)
7580	V13	13-1-2012	0500	New Star #4. Flute tune followed by coded messages	USB		(AB-HK)
7580	V13	13-1-2012	0600	New Star #4. Flute tune followed by coded messages	USB		(AB-HK)
7580	V13	18-1-2012	1310	New Star in progress	USB		(AB-HK)
7580	V13	19-1-2012	0612	New Star in progress	USB		(AB)
7580	V13	20-1-2012	0600	New Star #4. Flute tune + coded messages	USB		(AB-HK)
7580	V13	20-1-2012	1300	New Star #3. Flute tune + coded messages	USB		(AB-HK)
7580	V13	21-1-2012	0507	New Star in progress. Barely audible	USB		(AB-HK)
7580	V13	21-1-2012	1317	New Star in progress	USB		(AB-HK)
7580	V13	26-1-2012	1202	New Star, barely audible under Voice of Korea	USB		(AB-HK)
7580	V13	27-1-2012	0600	New Star. Flute tune and coded messages	USB		(AB-HK)
7582	M89	1-1-2012	0556	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW		(JPL-HK)
7582	M89	2-1-2012	0018	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW		(JPL-HK)
7582	M89	2-1-2012	0555	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW		(JPL-HK)
7582	M89	2-1-2012	0600	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW		(JPL-HK)
7582	M89	3-1-2012	0013	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW		(JPL-HK)
7582	M89	3-1-2012	0605	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW		(JPL-HK)
7582	M89	4-1-2012	0032	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW		(JPL-HK)
7582	M89	11-1-2012	0647	V 7NWI (x3) DE QV5B (x2) Note: Callsign 7NPE is now being sent as 7NWI. Possibly a change in callsign or a problem with the transmit equipment.	CW		(JPL-HK)
7582	M89	11-1-2012	1608	V 7NWI (x3) DE QV5B (x2) (Cont'd)	CW		(JPL-HK)
7582	M89	12-1-2012	0600	V 7NPE 7NPE 7NPE DE QV5B QV5B	CW		(AB-HK)
7582	M89	18-1-2012	0726	VVV 7NPE (x3) DE QV5B (x2) (Cont'd) (Wed) //8110	CW		(JPL-HK)
7582	M89	19-1-2012	0208	VVV 7NPE (x3) DE QV5B (x2) (Cont'd)	CW		(JPL-HK)
7582	M89	29-1-2012	2341	VVV 7NPE (x3) DE QV5B (x2) (Cont'd) (Sun) //8110	CW		(JPL-HK)
7602	M89	1-1-2012	2126	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW		(JPL-SVK)
7602	M89	16-1-2012	1614	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW		(JPL-SVK)
7602	M89	26-1-2012	1935	Chinese Forces "DKG6 DE 3A7D"	CW		(VL)
7602	M89	30-1-2012	2152	V DKG6 DKG6 DKG6 DE 3A7D 3A7D	CW		(WP3)
7643	M42	23-1-2012	1550	Russian Intel.	FSK 200/1000	Mon	(FMB)
7688	V13	2-1-2012	0702	New Star in progress	USB		(AB-HK)
7688	V13	2-1-2012	0805	New Star in progress	USB		(AB-HK)
7688	V13	4-1-2012	0722	New Star in progress	USB		(AB-HK)
7688	V13	7-1-2012	0720	New Star in progress	USB		(AB-HK)
7688	V13	7-1-2012	0806	New Star in progress	USB		(AB-HK)
7688	V13	10-1-2012	0715	New Star in progress	USB		(AB-HK)
7688	V13	10-1-2012	0818	New Star in progress	USB		(AB-HK)
7688	V13	11-1-2012	0712	New Star in progress	USB		(AB-HK)



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7688	V13	11-1-2012	0805	New Star in progress	USB		(AB-HK)
7688	V13	12-1-2012	0811	New Star in progress	USB		(AB-HK)
7688	V13	13-1-2012	0700	New Star #3. Flute tune followed by coded messages	USB		(AB-HK)
7688	V13	13-1-2012	0819	New Star in progress	USB		(AB-HK)
7688	V13	18-1-2012	0809	New Star in progress	USB		(AB-HK)
7688	V13	19-1-2012	0703	New Star in progress	USB		(AB)
7688	V13	23-1-2012	0800	New Star #3. Flute tune followed by coded messages	USB		(AB-HK)
7688	V13	25-1-2012	0700	New Star #3. Flute tune and coded messages	USB		(AB-HK)
7688	V13	25-1-2012	0800	New Star #3. Flute tune and coded messages	USB		(AB-HK)
7688	V13	27-1-2012	0714	New Star in progress	USB		(AB-HK)
7688	V13	27-1-2012	0815	New Star in progress	USB		(AB-HK)
7688	V13	30-1-2012	0700	New Star. Station #3 msg set 12-01-4. Units & group counts: 12513 46, 13195 43, 10923 44, 10041 42, 17432 48	USB		(westli)
7688	V13	30-1-2012	0706	New Star #3 in progress	USB		(AB-HK)
7688	V13	30-1-2012	0706	New Star in progress	USB		(AB-HK)
7688	V13	30-1-2012	0800	New Star #3. Flute tune and coded messages. The transmission stopped before the end of the transmission.	USB		(AB-HK)
7688	V13	30-1-2012	0800	New Star. Station #3 msg set 12-01-4. Units & group counts: 12513 46, 13195 43, 10923 44, 10041 42, 17432 48	USB		(westli)
7688	V13	31-1-2012	0714	New Star #3 in progress	USB		(AB-HK)
7688	V13	21-2-2012	0820	New Star in progress. Ends 0831 UTC, 0834 UTC Windows shut down tune, carrier down at 0835 UTC.	USB		(AB-HK)
7688	V23	20-1-2012	0822	New Star in progress. Ends 0831 UTC, 0832 UTC Windows shut down tune, carrier down	USB		(AB-HK)
7750	M42	24-1-2012	2300	Russian Intel.	FSK 200/1000	Tue	(FMB)
7789	M32	31-1-2012	0528	Russian Mil. 1FO3 Net control, radio checks with YRGY ,L2NC and X11T	CW		(PPA)
7792	VC01	2-1-2012	0704	Chinese Robot in progress	USB		(AB-HK)
7792	VC01	2-1-2012	0806	Chinese Robot in progress	USB		(AB-HK)
7792	VC01	4-1-2012	0725	Chinese Robot in progress	USB		(AB-HK)
7840	E11	12-1-2012	0645	517/00	USB		(Avare)
7840	E11a	17-1-2012	0645	515/35	USB		(AB)
7840	E11a	19-1-2012	0645	515/35	USB		(AB)
7840	S06s	25-1-2012	0830	471 906 5 78563 45215 79806 34216 67452 906 5 00000	USB		(AB)
7844	M51	22-1-2012	1704	in progress	MCW	Sun	(FMB)
7858	VC01	20-8-2011	0658	Chinese Robot in progress	USB		(TI)
7865	S06s	12-1-2012	1230	314 286 5 01928	USB		(FN)
7865	S06s	12-1-2012	1230	314 286 5 01928 76867 78654 34521 67691 286 5 00000	USB		(AB)
7890	SK01	26-1-2012	1030	Cuban DGI	RDFT	Thu	(MS)
7890	SK01	31-1-2012	1030	Cuban DGI	RDFT	Tue	(MS)
7891	XPA	10-1-2012	1900	873 873 873 1 6 00397 00195 14968 90969 84098 etc	MFSK		(AiK)
7891	XPA	19-1-2012	1900	873 1 00372 00211 61401 ... 12365 +++++	MFSK		(FN)
7891	XPA	31-1-2012	1900	873 873 873 000 873 873 873 000 873 873 873 000 6 07376 00001 00000 10140	MFSK		(AiK)
7892	XPA	3-1-2012	1900	msg	MFSK	Tue	(HFD)
7931	M12	16-1-2012	1920	257 3433 62 45393	CW		(FN)
7965	M51	24-1-2012	0850	5 letters blocks	CW		(ML4)
7965	M51	28-1-2012	0745	in progress	MCW	Sat	(FMB)
7966	M51	5-1-2012	1342	5 letters blocks	CW		(ML4)
7966	M51	23-1-2012	1607	in progress	MCW	Mon	(FMB)
7966	M51	30-1-2012	2153	5LGs	CW		(WP3)
7992	VC01	4-1-2012	1018	in progress	USB		(swl73oz)
8009	M08a	26-1-2012	2200	..... 15051 54781 (At 2209z, station changed to correct freq of 6854m)	CW	Thu	(MS)
8040	M89	4-1-2012	0031	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW		(JPL-HK)
8040	M89	29-1-2012	2337	VVV H2FL (x3) DE DRV8 (x2) (Cont'd)	CW		(JPL-HK)
8063	SK01	31-1-2012	0630	Cuban DGI	RDFT	Tue	(MS)
8068	M42	27-1-2012	0720	Russian Intel.	FSK 200/1000	Fri	(FMB)
8091	E11	11-1-2012	1045	469/00	USB		(AB)
8091	E11	17-1-2012	1045	469/00	USB		(AB)
8091	E11	18-1-2012	1045	469/00	USB		(AB)
8091	E11	18-1-2012	1045	469/00	USB		(FN)
8091	E11	24-1-2012	1045	469/00	USB		(AB)



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8091	E11	31-1-2012	1045	469/00	USB		(AB)
8091	E11a	3-1-2012	1045	464/36 Attention	USB		(Spec)
8096	M08a	26-1-2012	1433	(Too weak for copy)	CW	Thu	(MS)
8096	M08a	27-1-2012	1400	24081 47862 63322	CW	Fri	(MS)
8096	M08a	31-1-2012	1400	..... (Very weak, missed callups)	CW	Tue	(MS)
8097	M08a	25-1-2012	1800	28612 21131 38032	MCW	Wed	(MS)
8097	M08a	25-1-2012	1900	28612 21131 38032	MCW	Wed	(MS)
8097	M08a	27-1-2012	1800	73681 61762 20581	MCW	Fri	(MS)
8097	M08a	30-1-2012	1800	61252 11002 51422	MCW	Mon	(MS)
8097	M08a	30-1-2012	1900	61252 11002 51422 (SK01 is also on this freq at this time)	MCW	Mon	(MS)
8097	SK01	30-1-2012	1900	DGI	RDFT	Mon	(MS)
8110	M89	1-1-2012	0556	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW		(JPL-HK)
8110	M89	2-1-2012	0018	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW		(JPL-HK)
8110	M89	2-1-2012	0555	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW		(JPL-HK)
8110	M89	2-1-2012	0600	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW		(JPL-HK)
8110	M89	3-1-2012	0013	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW		(JPL-HK)
8110	M89	3-1-2012	0605	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW		(JPL-HK)
8110	M89	4-1-2012	0032	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW		(JPL-HK)
8110	M89	8-1-2012	0817	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW		(JPL-HK)
8110	M89	9-1-2012	0418	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW		(JPL-HK)
8110	M89	18-1-2012	0726	VVV 7NPE (x3) DE QV5B (x2) (Cont'd) (Wed) //7582	CW		(JPL-HK)
8110	M89	29-1-2012	2341	VVV 7NPE (x3) DE QV5B (x2) (Cont'd) (Sun) //7582	CW		(JPL-HK)
8110	M89	30-1-2012	2341	7NPE DE QV5B	CW		(AIK)
8135	M08a	26-1-2012	2300	40222 70822 40582	CW	Thu	(MS)
8135	M08a	27-1-2012	2300	21112 15801 30351	CW	Fri	(MS)
8135	M08a	31-1-2012	2300	..... 68222 (In late, missed first two callups)	CW	Tue	(MS)
8153	M42	3-1-2012	0810	Russian Gov/Intel.	FSK 200/1000 (ACF=288)		(linkz)
8164	XPA	1-12-2011	1900	msg	MFSK	Thu	(HFD)
8180	SK01	26-1-2012	0800	Cuban DGI	RDFT	Thu	(MS)
8180	SK01	26-1-2012	0900	Cuban DGI	RDFT	Thu	(MS)
8180	SK01	31-1-2012	0800	Cuban DGI	RDFT	Tue	(MS)
8186	SK01	26-1-2012	1000	Cuban DGI	RDFT	Thu	(MS)
8215	S06s	16-12-2011	0710	196	USB	Fri	(HFD)
8215	S06s	6-1-2012	0710	196 802 5 73574 74501 45510 48743 53224 802 5 00000	USB		(AB)
8215	S06s	13-1-2012	0710	196 802 5 73574 74501 45510 48743 53224 802 5 00000	USB		(AB-D)
8345	M32	13-1-2012	1240	RAL65: Russian Navy wkg RMP qtc 256 16 13 1605 256 = for rjh45 rjh74 = 13121 99585 70018 41398 ...	CW		(WP3)
8345	M32	13-1-2012	1240	RAL65: Russian Navy. "qso RMP qtc 256 16 13 1605 256 = for rjh45 rjh74 = 13121 99585 70018 41398 ..."	CW		(WP3)
8345	M32	13-1-2012	1243	RK081: Russian Navy tfc to RMP/9373 rko81 = 12121 99450 10216 40283 ... )	CW		(WP3)
8345	M32	14-1-2012	1210	RAL46: Russian Navy Msg to RCV: 876 = for rje73 rjh45 = 14121 99362 10145 41598 ... + ral46 k	CW		(WP3)
8345	M32	16-1-2012	1806	Russian warship RK081: 5F message	CW		(PPA)
8345	M32	17-1-2012	1218	Russian warship RAL65 wkg RIT: "RIT DE RAL65 894 16 17 1607 894 BT FOR RJH45 RJH74 BT 17121 99715 10271 ....."	CW		(Tom)
8345	M32	20-1-2012	0605	RK081: Russian Navy. Msg to unid "977 19 20 1000 977 = sml for rjd38 = 20061 99373 10046 41598 ..."	CW		(WP3)
8345	M32	20-1-2012	1810	RCJG: Russian Navy. Msg to RCV "847 18 20 2205 847 = sml for rjh45 rje73 = 20181 99446 10333 41698 ..."	CW		(WP3)
8345	M32	29-1-2012	1828	RAL65: Russian Warship "RMP de RAL65 QTC K. RAL65 571 16 29 2215 571 = FOR RJH45 RJH74 = 29181 99669 10083 41/98 820090 ... loses contact, tries RIT. RIT de RAL65 QSA? QTC K"	CW		(MPJ)
8345	M32	29-1-2012	1834	RK081: Russian Warship "RMP de RK081 QSA? QTC K. RK081 406 21 29 2200 406 = SML FOR RJD38 R_E73 = 29181 99356 7003_415_8 23106 ... 00150 29901 312// 40303 88000 29017 = + RK081 K. RK081 QRU K"	CW		(MPJ)
8345	M32	29-1-2012	1841	RAL46: Russian Warship "RIW de RAL46 QTC K. RAL46 548 17 29 2210 548 = FOR RJH74 RJH45 = 29181 99437 70117 41598 40406 10110 ... 304// 40801 29014 = + RAL46 K"	CW		(MPJ)
8345	M32	31-1-2012	0603	Russian warship RK081 msg to RMP. "902 20 31 1000 902 = sml for rjd38 rje73 = 3061 99360 70047 41598...."	CW		(WP3)



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8345	M32	31-1-2012	0623	Russian warship Ivan Bubnov (RCJG) msg to RCV. "623 18 30 1000 623 = sml for rjh45 rje73 = 30061 99366 10004 41498 .."	CW		(WP3)
8345	M32	31-1-2012	0625	Russian warship RAL65 msg to RIW. "riw de ral65 qtc 547 16 31 1005 5847 =for rjh45 rjh74 = 31061 99615 10036 41/98 ... "	CW		(WP3)
8345	M32	31-1-2012	0626	Russian warship RAL46 msg to RIW. "140 13 20 1010 140 = for rjh74 rjh45 = 30061 99462 70119 41/98 ..."	CW		(WP3)
8420	S06s	9-1-2012	1300	831 925 6 84029 66633 88274 15863 65224 37578 925 6 00000	USB		(AB)
8420	S06s	23-1-2012	1300	831 409 5 73534 74501 45510 48743 53224 409 5 00000	USB		(AB)
8479.8	MX	8-1-2012	1607	Beacon L: St Petersburg	CW		(CK)
8494.7	MX	8-1-2012	1617	Beacon D: Sevastopol	CW		(CK)
8495	MX	8-1-2012	1619	Beacon C: Moscow	CW		(CK)
8495.3	MX	27-1-2012	1647	Beacon "K"	CW		(AB-HK)
8495.4	MX	27-1-2012	1647	Beacon "M"	CW		(AB-HK)
8530	S06s	11-1-2012	1900	YL 371 371 371... 509 509 6 6 25594 25594 55094 55094 53555 53555 97554 97554 55833 55833 33577 33577 509 509 6 6 00000	USB		(AIK)
8530	S06s	18-1-2012	1900	371 528 6 39674	USB		(FN)
8530	S06s	18-1-2012	1900	371 528 6 39674 66442 47392 99451 18212 34598 528 6 00000	USB		(AB)
8530	S06s	18-1-2012	1900	YL 371 371 371... 528 528 6 6 39674 39674 66442 66442 47392 47392 99451 99451 18212 18212 34598 34598 528 528 6 6 00000	USB		(AIK)
8787	M89	17-1-2012	0312	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	CW		(JPL-SVK)
8787	M89	18-1-2012	0359	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	CW		(JPL-SVK)
8787	M89	19-1-2012	0226	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	CW		(JPL-SVK)
8789	M89	17-1-2012	1041	V WITN (x3) DE GNXG (x2) (Cont'd)	CW		(JPL-AUS)
8794	M32	20-1-2012	0922	Russian Navy: RIW clg RCRE	CW		(WP3)
8816	M32	16-1-2012	1140	47041: Russian Naval Air Transport to rjf94 qto 1235 qrd xllv xlfw qbd 5200 qre 1420 rpt al k	CW		(WP3)
8816	M32	17-1-2012	0745	47032: Russian Naval Air Transport tfc to RJF94 "47032 qth 6632 3817 qtr 0745 qre xlaa 0833 rpt al k", 0835z: "qqm xlaa 0833 k"	CW		(WP3)
8816	M32	17-1-2012	0835	47032: Russian Naval Air Transport qtc to RJF91 "qqm XLLV 0835 rpt al k"	CW		(WP3)
8816	M32	17-1-2012	1120	47032: Russian Naval Air Transport qtc to rjf94 qth 6727 2615 qtr 1120 qre xml d 1155 rpt al k", 1204z: "40732 qtm xlm d 1200 k"	CW		(WP3)
8816	M32	21-1-2012	1315	Russian Naval Air Transport: 47032 msg to RJF94 qql XLMF 1315 qbg 5500 qbd 2400 qre XLMV 1351 rpt al k"	CW		(WP3)
8816	M32	28-1-2012	0905	16405: Russian Naval Air Transport. qtc to rjf94 qth 5915 2159 qtr 0905 qah 5800 qbd 0230 rpt al k	CW		(WP3)
8816	M32	28-1-2012	0930	09409: Russian Naval Air Transport. qtc to rjf94 qql ulpe 0930 qbg 6700 qre xllv 1055 rpt al k 1057z: qqm xllv 1056 rpt al k	CW		(WP3)
8816	M32	28-1-2012	1105	70324: Russian Naval Air Transport. qtc to rjf94 rjc38 qto 1054 qrd xlmv xumo qbd 4800 qre 1445 rpt al k	CW		(WP3)
9044	M32	30-1-2012	1248	Russian operational strategic command. Strategic flash message to collective recipient WEGI; "xxx xxx wegi wegi 59350 40993 pod÷alok 7905 4071 atriksiö 2338 8099 k"	CW		(TJ)
9044	M32	30-1-2012	1253	Russian operational strategic command. Strategic flash message to collective (army?) recipient RGT77; "xxx xxx rgt77 rgt77 91649 62184 stadnostx 8188 0390 k"	CW		(TJ)
9063	M08a	28-1-2012	1000	37722 65771 64322	MCW	Sat	(MS)
9063	SK01	26-1-2012	0630	Cuban DGI	RDFT	Thu	(MS)
9063	SK01	28-1-2012	0900	Cuban DGI	RDFT	Sat	(MS)
9112	M08a	27-1-2012	1000	30602 43582 73012	MCW	Fri	(MS)
9124	SK01	26-1-2012	0600	Cuban DGI	RDFT	Thu	(MS)
9124	SK01	31-1-2012	0600	Cuban DGI	RDFT	Tue	(MS)
9135	S06s	17-1-2012	0810	352 804 6 81726 56324 01988 67854 22067 19846 804 6 00000	USB		(AB)
9135	S06s	24-1-2012	0810	352 804 6 81726 56324 01988 67854 22067 19846 804 6 00000	USB		(AB)
9145	M32	13-1-2012	0750	RIW: Russian Navy Moskau RUS 0750 CW qso RDND qyt4 qwh 8623/12948 qsx 8330/12414	CW		(WP3)
9153	V26	4-1-2012	0948	In progress.	USB		(swl73oz)
9250	M42	23-1-2012	1540	Russian Intel.	FSK 200/1000	Mon	(FMB)
9260	S06s	28-12-2011	0840	328-951/6=76453	USB	Wed	(HFD)
9264	M12	26-1-2012	1820	5FG message ending TTT TTT	CW		(PPA)
9373	M32	14-1-2012	1005	RMP: Russian Navy Kaliningrad tfc to RAL65 648 35 15 1007 648 = sml = 11111 5523_ 99334 ...	CW		(WP3)
9446	E11	4-1-2012	0900	534/00	USB		(AB)



frequency	enigma	date	UTC	remarks	mode	day	contributor
9446	E11	5-1-2012	0830	649/00	USB		(AB)
9446	E11	16-1-2012	0830	649/00	USB		(AB)
9446	E11	16-1-2012	0900	534/00	USB		(AB)
9446	E11	18-1-2012	0900	534/00	USB		(AB)
9446	E11	19-1-2012	0830	649/00	USB		(AB)
9446	E11	19-1-2012	0830	649/00	USB		(FN)
9446	E11	23-1-2012	0830	649/00	USB		(AB)
9446	E11	23-1-2012	0900	534/00	USB		(AB)
9446	E11	25-1-2012	0900	534/00	USB		(AB-RUS)
9446	E11a	9-1-2012	0830	644/33	USB		(AB)
9446	E11a	9-1-2012	0900	530/37	USB		(AB)
9446	E11a	11-1-2012	0900	530/37	USB		(AB)
9446	E11a	12-1-2012	0830	644/33	USB		(AB)
9450	E25	4-1-2012	1114	315 315 315 MSG 3x 5498 4841 4080 2907 1278 9538 4841 6285 RBT 3x EOM	USB		(Avare)
9450	E25	5-1-2012	1315	780 780 780 MSG 3x 9990 2011 0410 1707 7125 8033 5056 4623 6135 6711 0413 RBT 3x EOM	USB		(Avare)
9450	E25	6-1-2012	1314	780 (as of 06/01) tone, YL, EOM	AM		(MG)
9450	E25	6-1-2012	1315	780 780 780 MSG 3x 9990 2011 0410 1707 7125 8033 5056 4623 6135 6711 0413 RBT 3x EOM	USB		(Avare)
9450	E25	8-1-2012	1315	780 (as of 06/01) carrier off-freq 1310z buzzes, tone, YL	USB		(MG)
9450	E25	8-1-2012	1315	780 780 780 MSG 3x 9990 2011 0410 1707 7125 8033 5056 4623 6135 6711 0413 RBT 3x EOM	USB		(Avare)
9450	E25	9-1-2012	1230	Song: Arouh Lemin: 555 555 555 MSG 3X 9010 3031 8920 8887 1249 9959 8338 5410 1576 45; stops, tune; 5555555555 MSG 3x 9010 3031 8920 8887 1249 9959 8338 5410 1576 4691 4587 8347 8920 RBT 3x EOM EOT	USB		(Avare)
9450	E25	9-1-2012	1322	780 (as of 05/01) carrier 1306z, YL, EOM	USB		(MG)
9450	E25	12-1-2012	1215	8835 837 3 5 835 837 3 835 8 8 8 8 8 MSG 3x 1060 9410 0808 8914 9410 7579 RBT 3x EOM EOT	AM		(Avare)
9450	E25	13-1-2012	1216	837 3 835 1060 9410 0808 8914 9410 7579 tone, IO, YL, 8 rptd, EOM	AM		(MG)
9450	E25	16-1-2012	1216	837 835 2080 5540 8977 2381 2017 6996 5540 4757]1224z, tone 1210z, IO, QRT 1232z	AM		(MG)
9450	E25	17-1-2012	1214	837 835 tone, IO, YL	AM		(MG)
9450	E25	17-1-2012	1345	222 7110 2090 0240 2772 3517 7408 2811 8082 0240 tone, IO, YL	AM		(MG)
9450	E25	19-1-2012	1212	835 837 tone, IO, YL, 837 rptd, EOM	AM		(MG)
9450	E25	24-1-2012	1316	780 7949 4001 8011 9897 9637 6209 5948 9025 8249 8011. 1322 UTC: buzz, tone, YL clg 169, tone YL clg 780, msg	AM		(MG)
9450	E25	25-1-2012	1315	780 1320 UTC: carrier, 1300 UTC: "Spider Solitaire" sounds, tone, YL, EOM	AM		(MG)
9450	E25	26-1-2012	1314	??? 7949 4001 8011 9897 9637 6209 5948 9025 8249 8011 EOM, YL	AM		(MG)
9450	E25a	10-1-2012	1159	"Arouh Limin" - song, 557 3 557 3 557 3 MSG 3x RBT 3x EOM	USB		(Avare)
9450	E25a	10-1-2012	1230	557 3 carrier 1200z, tone, ALM, YL,Mx3, Rx3, EOM, carrier	AM		(MG)
9450	E25a	12-1-2012	1315	788 4 6 8 9 EOM EOT (1318z). Text tentative. Remote sound failed	AM		(AB-GRC)
9450	E25a	21-1-2012	1345	"Arouh li Meen" 227 1, YL WinXP shutdown 1353z	AM		(MG)
9450	E25a	21-1-2012	1348	YL 227 1 227 1 227 1... barely audible. Windows shutdown sound	AM		(AIK)
9610	S11a	6-1-2012	1020	427/00	USB		(AB)
9610	S11a	17-1-2012	1020	427/00	USB		(AB)
9610	S11a	20-1-2012	1020	427/00	USB		(AB)
9610	S11a	24-1-2012	1025	427/33	USB		(AB)
9610	S11a	27-1-2012	1020	427/33	USB		(AB)
9610	S11a	31-1-2012	0010	Message: Null	USB	Tue	(Stefan)
9610	S11a	31-1-2012	1020	426/00	USB		(AB)
9820	E17z	19-1-2012	0810	674 802 5 46248	AM		(FN)
10175	M42	2-1-2012	0800	Russian Gov/Intel.	FSK 200/1000 (ACF=288)		(PPA)
10175	M42	3-1-2012	0800	Russian Gov/Intel.	FSK 200/1000 (ACF=288)		(linkz)
10180	M89	17-1-2012	0304	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW		(JPL-SVK)
10180	M89	18-1-2012	0357	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW		(JPL-SVK)
10265	S06s	17-1-2012	0800	352 804 6 81726 56324 01988 67854 22067 19846 804 6 00000	USB		(AB)
10278.4	MX	24-1-2012	0901	Beacon "M"	CW		(AB-HK)



frequency	enigma	date	UTC	remarks	mode	day	contributor
10359	E11	3-1-2012	0727	757/2200/00	USB		(linkz)
10375	M97	3-1-2012	1455	msg SD65 and SD66	CW		(AB-HK)
10400	EV01	4-1-2011	1627	GR35 NO125 etc. Classical music heard on the same freq.	AM		(MG)
10400	EV01	3-1-2012	1520	GR35 NO125 etc. Msg was sent 1x followed by at least 20 minutes of The Blue Danube by Johann Strauss II	AM		(linkz)
10400	EV01	3-1-2012	1522	GR35 NO125 MESSAGE KLPAS BDMGC SPADM SPILB etc. 35 groups	AM		(Danix)
10400	EV01	4-1-2012	1453	GR35 NO125 etc. Classical music heard on the same freq.	AM		(MG)
10400	EV01	7-1-2012	1430	GR35 NO125 message + 5FGs. Same message as always. Repeated for 30 minutes. Ends 1459 UTC	AM		(AB-IT)
10400	EV01	7-1-2012	1445	EE numbers in progress	AM		(AnEur)
10418	M42	3-1-2012	1420	Russian Gov/Intel.	FSK 200/1000 (ACF=288)		(linkz)
10418	M42	10-1-2012	1420	Russian Gov/Intel.	FSK 200/1000		(Danix)
10432	M08a	29-1-2012	0900	31202 11622 74512 (Very weak signal)	MCW	Sun	(MS)
10543	M32	1-1-2012	1452	Russian Navy "RKZ DE RCV QTC"	CW		(PPA)
10543	M32	11-1-2012	1448	Russian Navy: "RIP90 de RCV QTC 268 27 11 _556 268 = Navarea 023 _9 ..." (fades). Later NAWIP to RGX94.	CW		(MPJ)
10543	M32	13-1-2012	1000	RCV: Russian Navy Sevastopol qso RFH77 qwh 12485/8322 k	CW		(WP3)
10543	M32	13-1-2012	1225	RCV: Russian Navy Sevastopol qso RMZW	CW		(WP3)
10543	M32	14-1-2012	0918	RCV: Russian Navy Sevastopol "RKZ de RCV qtc 398 01 14 1301 398 = prognos 1800 15 do 1800 17 õnw... rkz de rcv qtc 398 01 14 1301 398 ="	CW		(WP3)
10543	M32	15-1-2012	0905	RCV: Russian Navy Sevastopol clg RHY47 qap, RHY73 qap, RMZW qap, RKO81 qap	CW		(WP3)
10635	S06s	9-1-2012	1310	831 925 6 84029 66633 88274 15863 65224 37578 925 6 00000	USB		(AB)
10635	S06s	23-1-2012	1310	831 409 5 73534 74501 45510 48743 53224 409 5 00000	USB		(AB)
10640	M89	2-1-2012	0620	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Mon) //6840	CW		(JPL-HK)
10640	M89	8-1-2012	0820	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Sun) //6840	CW		(JPL-HK)
10640	M89	9-1-2012	0420	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Mon) //6840	CW		(JPL-HK)
10640	M89	9-1-2012	1020	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Mon) //6840	CW		(JPL-HK)
10640	M89	11-1-2012	0120	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Wed) //6840	CW		(JPL-HK)
10640	M89	19-1-2012	0220	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Thus) // 6840	CW		(JPL-HK)
10690	E11	14-1-2012	1400	983/10 08961 94885	USB		(FN)
10690	E11	14-1-2012	1404	in progress	USB		(AB)
10690	E11	24-1-2012	1400	981/10 Attention 31177 06826 67824 00275 29317 08943 71705 31188 13964 98137 Attention -rpt msg- Out	USB		(AB)
10690	E11a	14-1-2012	1400	983/10 Attention 08961 94885 92676 55236 14280 006	USB		(Spec)
10690	E11a	17-1-2012	1400	988/10 Attention 16142 85935 14158 80599 20613 37752 18468 28697 38498 58453 Out	USB		(AB)
10690	E11a	24-1-2012	1400	983/10 Attention 31177 06826 67824 00275 29317 089	USB		(Spec)
10690	E11a	28-1-2012	1400	981/10 Attention 60432 12658 92725 10510 82245 04872 31881 76539 53737 58910 Attentio Rpt msg Out	USB		(AB)
10690	E11a	31-1-2012	0014		USB	Tue	(Stefan)
10779	M89	31-12-2011	0527	V WITN (x3) DE GNXXG (x2) (Cont'd)	CW		(JPL-HK)
10779	M89	2-1-2012	0027	V WITN (x3) DE GNXXG (x2) (Cont'd)	CW		(JPL-HK)
10779	M89	2-1-2012	0557	V WITN (x3) DE GNXXG (x2) (Cont'd)	CW		(JPL-HK)
10779	M89	4-1-2012	0027	V WITN (x3) DE GNXXG (x2) (Cont'd)	CW		(JPL-HK)
10779	M89	8-1-2012	0750	V WITN (x3) DE GNXXG (x2) (Cont'd)	CW		(JPL-HK)
10779	M89	19-1-2012	0210	VVV WITN (x3) DE GNXXG (x2) (Cont'd)	CW		(JPL-HK)
10779	M89	29-1-2012	2337	VVV WITN (x3) DE GNXXG (x2) (Cont'd)	CW		(JPL-HK)
10800	E11	3-1-2012	0710	633/00	USB		(linkz)
10800	E11	13-1-2012	0710	633/00	USB		(AB)
10800	E11	17-1-2012	0710	633/00	USB		(AB)
10872.1	MX	8-1-2012	1615	Beacon A: Astrakhan	CW		(CK)
10920	S06s	5-1-2012	1210	425 970 6 67584 35456 89321 09678 62230 65657 970 6 00000	USB		(AB)
10920	S06s	12-1-2012	1210	425 970 6 67584 35456 89321 09678 62230 65657 970 6 00000	USB		(AB)
10920	S06s	19-1-2012	1210	425 917 6 45424	USB		(FN)
11000	EV01	31-12-2011	1431	GR35 NO125 MESSAGE KLPAS BDMGC SPADM SPILB etc. 35 groups	USB		(AB-IT)
11000	EV01	31-12-2011	1454	GR35 NO125 MESSAGE KLPAS BDMGC SPADM SPILB etc. 35 groups	USB		(Danix)
11000	EV01	1-1-2012	1429	GR35 NO125 MESSAGE KLPAS BDMGC SPADM SPILB etc. 35 groups	USB		(MG)
11000	EV01	1-1-2012	1520	GR35 NO125 MESSAGE KLPAS BDMGC SPADM SPILB etc. 35 groups	USB		(MG)
11000	EV01	1-1-2012	1600	GR35 NO125 MESSAGE KLPAS BDMGC SPADM SPILB etc. 35 groups	USB		(MG/FN)



frequency	enigma	date	UTC	remarks	mode	day	contributor
11000	EV01	8-1-2012	1515	EE, OM, 5L station was up to about 1519 UTC.	USB/AM		(Token)
11000	EV01	8-1-2012	1530	EE, OM, 5L s/off 1533 UTC	USB/AM		(Token)
11000	EV01	21-1-2012	1433	New voice, new format. EE/YL Msg to GR18 N912, 18 5LGs.	AM		(Token)
11000	EV01	21-1-2012	1515	New voice, new format. EE/YL Msg to GR18 N912, 18 5LGs.	AM		(Token)
11000	EV01	21-1-2012	1600	New voice, new format. EE/YL Msg to GR18 N912, 18 5LGs.	AM		(Token)
11155	M32	14-1-2012	2210	RIT clg RDA65 (RUS NAV) w/op chat and into tfc (5fg with slashes, prob CW METEO). Worked a couple of other ships as well			(Imp)
11170	E17z	12-1-2012	0800	674 674 674 barely audible	AM		(AB-FNL)
11170	E17z	12-1-2012	0800	674 832 5 85726 56643 00958 34890 56755 832 5 00000	AM		(Avare)
11170	E17z	19-1-2012	0800	674 802 5 46248	AM		(FN)
11354	M32	14-1-2012	0815	Russian Mil aero. Priboj calling "dva osem osem chto adine"	USB		(Pat)
11415	S06s	28-12-2011	0850	328	USB	Wed	(HFD)
11780	S06s	6-1-2012	0930	516 297 8 31541 64525 65019 95352 41214 45384 50255 95382 297 8 000000	USB		(AB)
11780	S06s	13-1-2012	0930	516 297 8 31541 64525 65019 95352 41214 45384 50255 95382 297 8 000000	USB		(AB)
11780	S06s	20-1-2012	0930	516 983 7 94515 28375 79504 53529 75235 54951 12050 00000	USB		(AB)
11780	S06s	20-1-2012	0930	516 983 7 94515 28375 79504 53529 75235 54951 12050 983 7 00000	USB		(AB)
11780	S06s	27-1-2012	0930	516 983 7 94515 28375 79504 53529 75235 54951 12050 00000	USB		(AB)
11830	S06s	28-12-2011	0840	745	USB	Wed	(HFD)
11830	S06s	4-1-2012	0840	745 913 6 84535 50820 07144 22450 96373 56890 913 6 00000	USB		(AB)
11830	S06s	18-1-2012	0840	745 238 6 67656 90895 34215 67453 89777 44511 238 6 00000	USB		(AB)
11830	S06s	25-1-2012	0840	745 238 6 67656 90895 34215 67453 89777 44511 238 6 00000	USB		(AB)
12106	M42	3-1-2012	1432	Russian Gov/Intel. =50= station. Ends with tty op chat "nil sk"	Baudot 50/500		(linkz)
12116	M42	10-1-2012	1410	Russian Gov/Intel.	FSK 200/1000		(Danix)
12153	E11	29-12-2011	1600	###/24	USB	Thu	(HFD)
12153	E11a	2-1-2012	1600	641/20	USB	Mon	(HFD)
12153	E11a	16-1-2012	1600	641/20 Attention	USB		(Spec)
12153	E11a	19-1-2012	1600	647/23	USB		(AB)
12153	E11a	19-1-2012	1600	647/23 96615 41279	USB		(FN)
12153	E11a	23-1-2012	1600	645/23	USB		(AB-G)
12153	E11a	30-1-2012	1600	641/23	USB		(AB)
12153	E11a	30-1-2012	1600	641/23	USB		(AB)
12153	E11a	30-1-2012	1600	641/23 Attention 91170 91170 72200 etc	USB		(AIK)
12155	S06s	5-1-2012	1200	425 970 6 67584 35456 89321 09678 62230 65657 970 6 00000	USB		(AB)
12155	S06s	12-1-2012	1200	425 970 6 67584 35456 89321 09678 62230 65657 970 6 00000	USB		(AB)
12155	S06s	19-1-2012	1200	425 917 6 45424	USB		(FN)
12180	V02a	26-1-2012	1900	Too weak for copy	MFSK	Thu	(MS)
12209	M42	21-1-2012	1120	Russian Gov/Intel with tfc.	FSK 200/1000		(Danix)
12209	M42	28-1-2012	1120	Russian Gov/Intel.	FSK 200/1000		(Danix)
12216	M42	3-1-2012	1410	Russian Gov/Intel.	FSK 200/1000 (ACF=288)		(linkz)
12221	M42	29-1-2012	0920	Russian Gov/Intel.	FSK 200/1000		(Danix)
12221	M42	29-1-2012	0920	Russian Gov/Intel.	FSK 200/1000		(LDO)
12365	S06s	11-1-2012	1000	729 853 6 15512 54502 85405 52359 53897 72891 853 6 00000	USB		(AB)
12365	S06s	18-1-2012	1000	729 482 6 67534 34327 67585 89563 56563 89812 482 6 00000	USB		(AB)
12365	S06s	25-1-2012	1000	729 482 6 67534 34327 67585 89563 56563 89812 482 6 00000	USB		(AB)
12464	M32	13-1-2012	0915	RAL65: Russian Navy clg RIT, clg RIW qtc 355 16 12 1303 355 = for rjh45 CW rjh74 = 12091 99581 70027 41397 ...	CW		(WP3)
12464	M32	13-1-2012	1208	RAL46: Russian Navy msg RCV/10543 157 18 12 1605 157 = for RJE73 RJE45 = 12121 99361 10135 (?) ....	CW		(WP3)
12464	M32	13-1-2012	1208	RAL46: Russian Navy wkg RCV qtc 217 18 13 45 217 ? for rje73 rjh45 = 13121 99379 10103 41598 ...	CW		(WP3)
12464	M32	13-1-2012	1208	RAL46: Russian Navy. "qso RCV qtc 217 18 13 45 217 ? for rje73 rjh45 = 13121 99379 10103 41598 ..."	CW		(WP3)
12464	M32	13-1-2012	1224	RMZW: Russian Navy clg RCV qyt9 qsx 11143 qwh 8404 k (F1B 75/200 on 8404 kHz)	CW		(WP3)
12464	M32	13-1-2012	1710	RAL65: Russian Navy wkg RMP/5213	CW		(WP3)
12464	M32	14-1-2012	0710	RFH77: Russian Navy "RCV de RFH77 ok qyt4 qls k"	CW		(WP3)
12464	M32	14-1-2012	0856	RMXW: Russian Navy tfc to RIW rmwx 343 814 1243 343 = 33333 52583 09489 29957 87675 59510 ..	CW		(WP3)
12464	M32	14-1-2012	1015	RKO81: Russian Navy "RMP de RKO81 qtc = for RHY47 = 11111 03165	CW		(WP3)



frequency	enigma	date	UTC	remarks	mode	day	contributor
				19676 61500 ..."			
12464	M32	15-1-2012	0929	RAL65: Russian Navy wkg RMP	CW		(WP3)
12464	M32	15-1-2012	0933	RAL46: Russian Navy qtc from RCV 648 34 15 1007 648 = sml = 11111 55239 99334 ...	CW		(WP3)
12464	M32	15-1-2012	0944	RJI63: Russian Navy wkg RCV qsa1 k ok qap k	CW		(WP3)
12464	M32	15-1-2012	0945	RAL46: Russian Navy wkg RCV qsa2 qru ? ok qap	CW		(WP3)
12464	M32	17-1-2012	1256	Russian Navy: "RAA DE RFH61 QSA ? K"	CW		(Tom)
12464	M32	31-1-2012	0921	Russian warship RJI63 wkg RCV on 10464 kHz "qsa3 qap"	CW		(WP3)
12530	S11a	5-1-2012	1015	475/00	USB		(AB)
12530	S11a	9-1-2012	1015	475/33	USB		(AB)
12530	S11a	16-1-2012	1015	475/00	USB		(AB)
12530	S11a	19-1-2012	1015	475/00	USB		(AB)
12570	S06s	6-1-2012	0940	516 297 8 31541 64525 65019 95352 41214 45384 50255 95382 297 8 000000	USB		(AB)
12570	S06s	13-1-2012	0940	516 297 8 31541 64525 65019 95352 41214 45384 50255 95382 297 8 000000	USB		(AB)
12570	S06s	20-1-2012	0940	516 983 7 94515 28375 79504 53529 75235 54951 12050 00000	USB		(AB)
12570	S06s	20-1-2012	0940	516 983 7 94515 28375 79504 53529 75235 54951 12050 983 7 00000	USB		(AB)
12570	S06s	27-1-2012	0940	516 983 7 94515 28375 79504 53529 75235 54951 12050 00000	USB		(AB)
12952	S06s	5-1-2012	0900	167-289/5=06761	USB	Thu	(HFD)
12952	S06s	12-1-2012	0900	167 289 5 06761 54545 11718 66545 68520 289 5 00000	USB		(AB)
13010	E06	8-12-2011	0605	ip	AM	Thu	(HFD)
13258.4	MX	24-1-2012	0901	Beacon "M"	CW		(AB-HK)
13369	M12	29-1-2012	1010	369 1 629 115 39560...	CW		(Danix)
13379	V02a	26-1-2012	2000	Too weak for copy	MFSK	Thu	(MS)
13400	EV01	15-1-2012	1505	EE, 5L, "GR35 NO125" to about 1515	AM		(linkz)
13400	EV01	15-1-2012	1540	GR35 NO125 etc. until 1550 UTC. Same message as always	AM		(Token)
13466	M42	7-1-2012	1413	Russian Gov/Intel. Link establishment in CW followed by rty traffic sending a 5F msg with 50 groups =50= seperator ending again in CW with CFM	CW / Baudot 1.5 stb 15/500		(PPA)
13528.4	MX	2-1-2012	0706	Beacon "M"	CW		(AB-HK)
13565	S06s	6-1-2012	0910	167	USB	Fri	(HFD)
13565	S06s	12-1-2012	0910	167 289 5 06761 54545 11718 66545 68520 289 5 00000	USB		(AB)
13910	E06	15-12-2011	0600	923 hard to hear	AM	Thu	(HFD)
14280	S06s	11-1-2012	1010	729 853 6 15512 54502 85405 52359 53897 72891 853 6 00000	USB		(AB)
14280	S06s	18-1-2012	1010	729 482 6 67534 34327 67585 89563 56563 89812 482 6 00000	USB		(AB)
14280	S06s	25-1-2012	1010	729 482 6 67534 34327 67585 89563 56563 89812 482 6 00000	USB		(AB)
14389	M42	3-1-2012	1400	Russian Gov/Intel.	FSK 200/1000 (ACF=288)		(linkz)
14410	E11	6-1-2012	1110	950/30	USB		(AnEur)
14410	M32	2-1-2012	1331	UUU XXX XXX WEGI WEGI 72834 38361 AMANIT 3086 8204	CW		(IW)
14410	M32	2-1-2012	1338	UUUU XXX XXX RGT77 RGT77 71350 92125 UMERENIE 7087 0798	CW		(IW)
14411	M32	26-1-2012	1135	Russian Mil sends 2 groups 3 times to RDL: "24966 82988" followed at 1136 and 1147 UTC by RTTY broadcasts preceded by "XXX"	CW		(OC)
14411	M32	30-1-2012	1318	Russian operational strategic command. 5fg strategic message to collective RDL;"rdl rdl rdl 44416 97177 44416 97177 44416 97177 k" //17460 kHz	CW		(TJ)
14411	M32	30-1-2012	1335	Russian operational strategic command. Strategic flash message to collective recipient RGT77;"xxx xxx rgt77 rgt77 17687 14696 krinum 9062 5233 trias 3210 4189 k" //17460 kHz	CW		(TJ)
14538	M42	21-1-2012	1110	Russian Gov/Intel with ttc.	FSK 200/1000		(Danix)
14538	M42	28-1-2012	1110	Russian Gov/Intel.	FSK 200/1000		(Danix)
14556	M32	21-1-2012	0855	Russian Navy: RIW wkg RCRE. 0920z: RCRE qsu1 qwh 8794 qsx 8270 k 0935z: qyr4 qwh 9500/9700 qsx 8338/12414 k"	CW		(WP3)
14674	M42	28-1-2012	1320	Russian Gov/Intel. Null msg to 576	FSK 200/1000		(Danix)
14682	M32	30-1-2012	0755	Russian Mil 8OB1 msg to V8Z5: "8OB1 721 381141 721 = 197 =" (then 5L groups cyrillic)	CW		(AnEur)
14939	M42	29-1-2012	0910	Russian Gov/Intel.	FSK 200/1000		(Danix)
14939	M42	29-1-2012	0910	Russian Gov/Intel.	FSK 200/1000		(LDO)
15180	E06	6-1-2012	0700	139 826 104 28956 14274 39361 78356 72027 etc.	AM		(Avare)
15632	E11	14-12-2011	1155	718/00	USB	Wed	(HFD)
15632	E11	11-1-2012	1155	718/00	USB		(AB)



frequency	enigma	date	UTC	remarks	mode	day	contributor
15632	E11	12-1-2012	1155	718/00	USB		(AB-IT)
15632	E11	12-1-2012	1155	718/00	USB		(FN)
15632	E11	18-1-2012	1155	718/00	USB		(AB)
15632	E11a	26-1-2012	1155	710/30	USB		(AB)
15810	E06	6-1-2012	0710	ip	AM	Fri	(HFD)
15940	E06	15-12-2011	0700	923-570/133=25870	AM	Thu	(HFD)
16000	EV01	26-10-2011	0542	GR35 NO125 MESSAGE KLPAS BDMGC SPADM SPILB etc. 35 groups	AM		(linkz)
16000	EV01	20-12-2011	1434	GR35 NO125 MESSAGE KLPAS BDMGC SPADM SPILB etc. 35 groups	AM		(linkz)
16000	EV01	24-12-2011	1450	GR35 NO125 MESSAGE KLPAS BDMGC SPADM SPILB etc. 35 groups	USB		(Token)
16112	E11	12-1-2012	0745	335/00	USB		(Avare)
16115	X06	2-1-2012	1120	Mazielka	USB		(EW)
16142	M42	28-1-2012	1310	Russian Gov/Intel. Null msg to 576	FSK 200/1000		(Danix)
16249	M42	28-1-2012	1027	Russian Gov/Intel.	FSK 200/1000		(Danix)
16317	X06	10-1-2012	1006	Mazielka. Sequence: 612534	AM		(Dan)
16332.2	MX	2-1-2012	0706	Beacon "F"	CW		(AB-HK)
16341	M42	21-1-2012	1100	Russian Gov/Intel with tfc. Test data noted at 1050 UTC	FSK 200/1000		(Danix)
16341	M42	28-1-2012	1100	Russian Gov/Intel.	FSK 200/1000		(Danix)
17460	M32	30-1-2012	1318	Russian operational strategic command. 5fg strategic message to collective RDL;"rdl rdl rdl 44416 97177 44416 97177 44416 97177 k" //14411 kHz	CW		(TJ)
17460	M32	30-1-2012	1335	Russian operational strategic command. Strategic flash message to collective recipient RGT77;"xxx xxx rgt77 rgt77 17687 14696 krinum 9062 5233 trias 3210 4189 k" //14411 kHz	CW		(TJ)
17460	M32	30-1-2012	1347	Russian operational strategic command. Strategic flash message to unid unit W6BY;"xxx xxx w6by w6by 47709 38501 bredinec 2060 1784 lopanok 7216 1219 k"	CW		(TJ)
18526	M42	14-1-2012	1305	Russian Intel. "576 1 00000 +++++ +++++ 162"	Baudot 200bd/500 Baudot		(MCO)
18526	M42	28-1-2012	1300	Russian Gov/Intel. Null msg to 576	FSK 200/1000		(Danix)
19305	M42	3-1-2012	1325	Russian Gov/Intel. =50= station. CW: "cfm nil .. vvv vvv cfm k .. nil sk"	Baudot 50/500 + CW		(linkz)
19878	M42	31-12-2011	1230	Russian Diplo	CROWD-36		(PPA)
20047.7	MX	13-1-2012	1130	D: Russian Navy Sevastopol	CW		(WP3)
20047.9	MX	13-1-2012	1130	S: Russian Navy Severomorsk	CW		(WP3)
20048	MX	13-1-2012	1130	C: Russian Navy Moscow	CW		(WP3)
21438	M32	1-1-2012	0433	Russian Navy: RIP90 de RCV	CW		(AnEur)



## CONTRIBUTORS

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AB-D	Ary Boender via remote receiver Germany	JPL-AUS	JPL via DX Tuner, Logan, Australia
AB-EST	Ary Boender via UVB76 relay Estonia	JPL-D	JPL via GlobalTuners Germany
AB-FL	Ary Boender via remote receiver FL, USA	JPL-HK	JPL via GlobalTuners Hong Kong
AB-FNL	Ary Boender via remote receiver Finland	JPL-SVK	JPL via GlobalTuners Slovakia
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