

670	27364	92836	09428	61208	74982	36498	32764	81276	01
4986	40932	70987	32123	49817	26346	81287	65491	87364	81
721	75654	55656	12737	72727	72727	91918	63473	67867	70
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	50
58	63298	75698	27465	87326	49876	28376	81273	98615	62
667	87432	74328	78674	29867	32867	67867	86786	43286	432
667	68768	68763	34234	34238	68768	62342	48273	48768	234
936	98432	32432	86743	43286	43286	43286	43286	43286	432
743	86743	86743	39867	32867	86743	43286	43286	43243	867
741	86743	86743	86743	86743	86743	86743	86743	86743	435
543	98798	98754	98754	98754	98754	29867	67543	67986	867
76	87698	69876	87698	69876	87612	12341	34867	86798	632
867	43298	65656	56756	56123	32143	14321	32143	14321	321
71	02787	58765	76587	58765	76587	58765	76587	58756	765
75476	76543	54365	36543	54365	36543	54365	36543	54365	543

Numbers & Oddities

a.k.a. The Spooks Newsletter

Edition #183, December 2012

Editor: Ary Boender email: ary@luna.nl

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

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

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

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

START PAGE <http://home.luna.nl/~ary>



I wish all members of the Utility DXers Forum, Spooks, and the contributors and readers of "Numbers & Oddities" a healthy, peaceful and prosperous new year and many hours of hobby pleasure.



Thanks to everyone who has provided logs, transcripts, pictures, recordings, information and translations in the past year. I hope that you will also support N&O in 2013.

Radio station GB2BP is a permanent special event station at Bletchley Park, maintained and operated by the Milton Keynes Amateur Radio Society.

On the 1st January, 2013, the eighteen year association of the Milton Keynes Amateur Radio Society (MKARS) and Bletchley Park will finally come to an end, due to MKARS having to vacate their current clubhouse on the estate.

To mark this occasion MKARS held a 'QSO party' on the weekend of the 15th-16th December.



I copied the station on 7143 kHz, on 16-12 at 1420 UTC

Welcome to the last edition of Numbers & Oddities in 2012. What do we have for you? Well, we received a large number of Russian Military logs and V22 is back !!! Further lots of logs and transcripts, the 2012 index, several units that need to be identified. So if you can help us with that, please mail us. And finally the last (103rd) edition of the Intelligence Profile series. This time the focus is on Australia.

Ian Wraith's RIVET decoder, build 44 has been released in December. Ian also started a Yahoo group for the users of this decoder. My compliments Ian !!

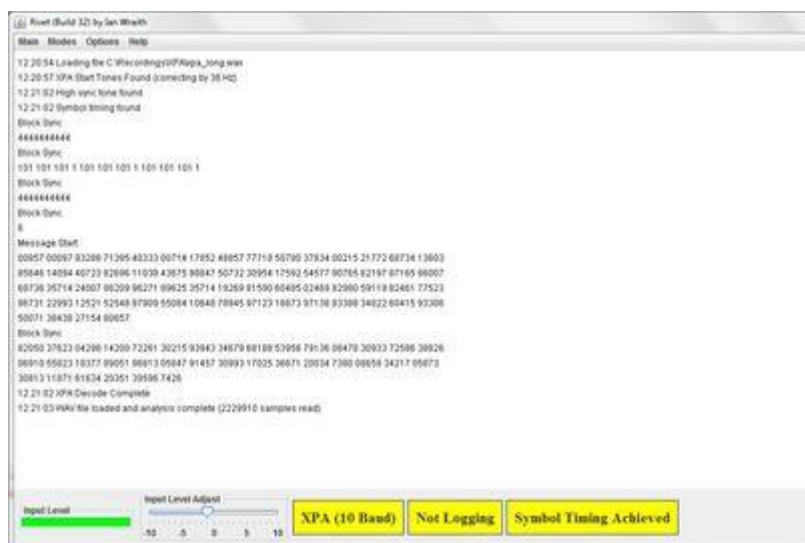
Ian Wraith's RIVET decoder can be downloaded from <http://borg.shef.ac.uk/rivet/>

Wiki:
<https://github.com/IanWraith/Rivet/wiki>

Support group:
http://tech.groups.yahoo.com/group/rivet_decoder/

Modes: CCIR493 4, CIS36 50, CROWD36, FSK2001000, FSK200500, GW 100 Baud FSK, XPA, XPA2.

Sound samples:
<http://borg.shef.ac.uk/rivet/samples.html>



VOICE STATIONS



E06

13910 kHz, 07-12, 0600 UTC:

923 567 104
80051 72595 48926 84915 91206 61810 52738 45173 62675 83494
62441 98052 38636 69835 70494 38338 31468 47556 09615 00100
38938 17575 19815 35518 57572 15615 20218 17736 15654 70968
71608 97320 74296 05581 40628 67028 70013 40665 01579 14558
97231 03019 36759 67979 54182 48232 21272 63523 00614 42987
03243 90427 00752 73617 15386 92512 49950 73126 78857 31195
08480 83857 85325 39599 90875 97988 68209 22486 84287 43045
99004 81656 94278 04630 69657 71536 41496 03534 46900 14629
57664 69441 09501 31509 54324 78398 04361 65061 62772 46239
82400 03645 68623 95153 00159 32866 89443 35597 98063 70660
68879 30707 91293 65351
567 104 00000

4760 kHz, 07-12, 2130 UTC:

472 204 15
27463 27463 54735 54735 18375 18375 28401 28401 27452 27452
27354 27354 56104 56104 27482 27482 18350 18350 37183 37183
53103 53103 28371 28371 37208 37208 27154 27154 28375 28375
204 15 00000

3812 kHz, 12-12, 2020 UTC: 154 154 154 000

6842 kHz, 16-12, 1120 UTC: Test "0 1 2 3 4"

5866 kHz, 16-12, 1224 UTC: 154 154 154 00000

6842 kHz, 16-12, 1127-1143 UTC: 01234 56789 164

4836 kHz, 05-12 & 20-12, 2030 UTC:

853 853 15

45361 74528 56326 85234 67381 47346 67381 56274 58629 97514

58245 08601 46073 67406 49075

853 15 00000



E07/ E07a

6982/5836 kHz, 23-12, 1800/1820 UTC:

989 989 989 1 553 70
97325 56040 43034 61334 64301 60142 26381 31578 72213 22576
33751 43114 07375 57961 42739 55741 57295 88310 88997 37026
60443 35916 43077 51416 57622 29604 31344 31949 06682 68699
24930 87470 00342 22284 98271 62423 79058 09162 33975 32261
56225 72231 65138 49354 72355 91042 94417 23739 85014 92066
00061 09692 64774 63205 17762 07281 10767 60117 17704 95334
47993 52980 57142 01866 57338 01591 78461 27696 45804 68138
000 000

5864/5164/4564 kHz, 19-12, 2100/2120/2140 UTC:

5146/5846/6846 kHz, 20-12, 0530/0550/0610 UTC:

815 815 815 1 66269 564 71
46573 14314 81099 62926 45382 78946 62168 78895 29662 61924
35042 36434 71404 10808 67147 30594 40744 17811 58424 37084
58309 94931 20127 71623 27666 81774 86875 77351 83838 75294
96792 60694 43112 66219 77011 33968 83464 65212 33114 87137
56283 49871 65102 73671 67985 36182 92503 13483 68661 14746
75371 28631 79874 83432 81527 50285 72045 07878 77161 30012
16457 24217 93186 81292 51617 05553 15289 65418 39298 18440
77787
000 000

5864/5164/4564 kHz, 05-12, 2100/2120/2140 UTC:

5146/5846/6846 kHz, 06-12, 0530/0550/0610 UTC:

815 815 815 1 33633 101 53 101 53
51966 91365 84040 73069 45055 01771 79243 56940 00604 12545
55415 39086 56024 69899 28532 58181 29598 74885 98684 07810
45634 37505 29481 51973 75676 9912? 61803 25574 98032 30269
90875 90903 82700 07949 59694 81799 91436 54246 60162 65299
15211 19232 62971 53964 71456 03975 84558 24494 84406 52083
93252 22581 96870
000 000

5278 kHz, 17-12, 2040 UTC:

472 472 472 1 235 91

05854 29782 75990 84004 06723 25994 41650 02734 97602 51458
36250 25748 04131 79418 01392 06216 11465 19040 40456 28127
02764 15164 51087 73434 40403 33603 25496 06404 45169 38107
81187 81342 68385 00303 25685 33431 27211 41793 30217 53777
93887 8311? 17234 97766 84628 34523 90291 80962 49332 03627
51861 46395 54341 84838 24580 05884 25663 37975 93677 28927
49939 46403 93083 15057 75987 27079 94069 02329 82930 34271
86671 84096 31093 10932 54334 49487 29222 88555 79709 50977
18515 08023 87905 52157 20336 86267 94040 28109 50696 45850
33493
000 000

11121 kHz, 01-12, 2001 UTC: 124 124 124 000
6777 kHz, 06-12, 2100 UTC: Test
6777 kHz, 06-12, 2110 UTC: 744 744 744 000
5449 kHz, 06-12, 2130 UTC: 744 744 744 000
6777 kHz, 13-12, 2110 UTC: 744 744 744 000
5449 kHz, 13-12, 2130 UTC: 744 744 744 000
5864 kHz, 12-12, 2100 UTC: 815 815 815 000
5164 kHz, 12-12, 2120 UTC: 815 815 815 000
6982 kHz, 30-12, 1800 UTC: 989 989 989 000
5836 kHz, 30-12, 1820 UTC: 989 989 989 000



E11/ E11a

E11a

14410 kHz, 24-12, 1115 UTC

952/36 attention

34638 64145 78954 30576 17994 19475 17519 03419 80655 39206
63311 07623 39206 39618 73321 97678 33922 84099 94939 95880
39983 29629 15821 48376 17209 70558 84448 03891 15359 93851
80625 02514 60718 56592 21813 28365

Attention, rpt msg, out

7317 kHz, 20-12, 0820 UTC:

430/35 Attention

16460 26821 60975 15429 69088 49826 83191 87137 75750 31291
49249 47997 18630 49976 40669 36703 55368 69286 21221 58694
29727 60085 80349 85486 33636 11358 51786 18467 46996 70281
81295 62352 86003 73902 46543 Out

9446 kHz, 12-12, 0900 UTC:

532/33 Attention

07371 18495 91227 51375 99215 29618 21014 72425 14044 17443
48976 56660 32477 47934 40537 82294 21592 46879 57876 92140
13691 78664 70324 39449 70413 43758 69445 32457 17240 77268
04549 70794 46152 Out

10800 kHz, 11-12, 1045 UTC:

571/38 Attention

30933 43756 51200 67530 96651 04455 65616 47776 01281 61343
71412 62669 79574 91663 20130 03692 59763 22244 26856 92313
45374 50279 15050 60641 09259 47453 41385 97161 93606 79805
67515 87656 38082 31544 14530 33592 04234 12120 Out

14410 kHz, 17-12, 1110 UTC:

954/38 Attention

67898 60301 39369 76603 09708 68669 64839 02977 24186 46563
57487 71174 38406 69614 63837 64580 02227 50988 16834 23811
56721 77428 47023 74223 50696 30533 76430 51994 88762 55307
78540 97532 08295 12218 00829 13216 88848 43742 Out

E11

15632 kHz, 03-12, 1540 UTC: 228/00
4536 kHz, 07-12, 2000 UTC: 576/00
16112 kHz, 11-12, 0745 UTC: 335/00
16112 kHz, 13-12, 0745 UTC: 335/00
15632 kHz, 16-12, 1540 UTC: 228/00
15632 kHz, 17-12, 1540 UTC: 228/00
7317 kHz, 24-12, 0820 UTC: 438/00
9446 kHz, 26-12, 0900 UTC: 534/00
8091 kHz, 26-12, 1045 UTC: 469/00
15632 kHz, 26-12, 1155 UTC: 718/00
8091 kHz, 25-12, 1045 UTC: 469/00
6433 kHz, 30-12, 1755 UTC: 270/00
12530 kHz, 31-12, 1015 UTC: 272/00

E11c

4909 kHz, 04-12, 2000 UTC: 757/0000/00
6923 kHz, 11-12, 0700 UTC: 758/0000/00
4909 kHz, 18-12, 2000 UTC: 757/0010/00
6923 kHz, 20-12, 1920 UTC: 758/0000/00
4909 kHz, 25-12, 2000 UTC: 757/0000/00
4909 kHz, 11-12, 2000 UTC: 757/0000/00
4909 kHz, 18-12, 2000 UTC: 757/0010/00
6923 kHz, 13-12, 1925 UTC: 758/1000/00
6923 kHz, 18-12, 1925 UTC: 758/2000/00

E11a

9446 kHz, 24-12, 0833 UTC: 649/30
14410 kHz, 31-12, 1110 UTC: 954/40

10690 kHz, 08-12, 1400 UTC: 952/10

952/10 Attention

36233 85314 66749 57426 66123
68948 44762 70708 07172 09273
Out

15632 kHz, 12-12, 1155 UTC:

716/33 Attention

85239 35060 00602 54916 83578 41131 03272 33970 85146 28126
54756 56713 41174 71015 39209 62270 42521 69011 88260 89369
88820 24536 78914 85047 92984 45758 72359 82028 32745 81574
23247 13977 15251 Out

15632 kHz, 20-12, 1155 UTC:

716/30 Attention

10753 83894 78248 88156 97534 27985 84658 85952 32233 95614
45699 30609 39474 88349 02794 68464 07246 06355 30152 92341
87591 50989 43260 84188 73716 12753 62680 43360 48947 08452
Out



E17z

Preceding the E17z transmission of 13-12, 0800 UTC, a digital transmission was heard on 11170 USB.
It is not very likely that there is a connection although both stations are Russian.

At the end of the digi transmission the operator says ""ответьте? в чт500 готовы работать?" "работайте в чт500, дайте коррекцию, ждите мою, как поняли?..работает." or in English: "Reply? Are you ready to operate in ChT500 mode? Operate in ChT500, give correction, wait for my correction, how could you read me? ...is operating..."

The ChT500 mode is a single or double channel telegraphy mode; 50 or 150 Bd, 125, 250, 500 Hz shift.

The recording was made by Avare and can be found on the N&O website.

11170/9820 kHz, 06-12 & 13-12, 0800/0810 UTC: 674 298 5 18276 35667 09816 78193 95123 298 5 00000

11170/9820 kHz, 20-12 & 27-12, 0800/0810 UTC: 674 208 5 53754 42788 64580 61284 16159 208 5 00000



E25

6140 kHz, 04-12, 0828 UTC: OM ...15 127 15 127 15 127 15 ...

6140 kHz, 16-12, 0829 UTC: Arabic music. YL.

6140 kHz, 16-12, 0831 UTC: 950 950 950 950 950 950 950 950 950 950 950 950 950 950

MESSAGE MESSAGE MESSAGE

1041 1505 5240 9718 6152 9509 1256 2482 9915 8137 0697 6789 2415 5240

REBEAT REBEAT REBEAT

1041 1505 5240 9718 6152 9509 1256 2482 9915 8137 0697 6789 2415 5240

6140 kHz, 16-12, 0831 UTC: Music

6140 kHz, 16-12, 0916 UTC: 950 950 950

6140 kHz, 22-12, 0826 UTC: Arabic music. Transmitter off

6140 kHz, 22-12, 0903 UTC: Arabic music. Transmitter off

6140 kHz, 29-12, 0803 UTC: Arabic music. Transmitter off



EV01

Still alive and kicking and still an unid !!!

17700 kHz, 01-12, 0740 UTC: in progress



G06

4519 kHz, 27-12, 1830 UTC:

271 271 271 199 15

83015 73922 53729 01635 72986 10385 28395 10582 19365 94732

10284 27193 46284 29482 10375

199 15 00000



G11

4828 kHz, 02-12, 1320 UTC: 437/00

6433 kHz, 09-12, 1755 UTC: 270/00

4441 kHz, 09-12, 2000 UTC: 262/00

6433 kHz, 16-12, 1755 UTC: 270/00

6433 kHz, 21-12, 1325 UTC: 299/00

4441 kHz, 23-12, 2000 UTC: 262/00

4441 kHz, 28-12, 2000 UTC: 262/00 continued with call-up during "Ende" and then cut off.

6433 kHz, 29-12, 1325 UTC: 299/00

6433 kHz, 30-12, 1755 UTC: 270/00

6433 kHz, 22-12, 1325 UTC:

298/30 Achtung

32005 32005 52170 52170 56989 56989 36755 36755 83628 83628

23901 23901 30009 30009 50101 50101 26871 26871 07009 07009

10017 10017 82729 82729 39972 39972 10100 10100 82833 82833

60751 60751 37990 37990 02582 02582 99989 99989 13800 13800

71725 71725 06678 06678 32173 32173 73875 73875 60991 60991

36551 36551 07067 07067 16161 16161 01792 01792 99502 99502

30060 30060 77268 77268 22950 22950 71302 71302

Achtung

32005 52170 56989 36755 83628 23901 30009 50101 26871 07009

10017 82729 39972 10100 82833 60751 37990 02582 99989 13800

71725 06678 32173 73875 60991 36551 07067 16161 01792 99502

30060 77268 22950 71302

Ende

4441 kHz, 16-12, 2000 UTC:

260/38 Achtung

10817 10817 98390 98390 90952 90952 38289 38289 79952 79952

90270 90270 07075 07075 95700 95700 02523 02523 10637 10637

10230 10230 88288 88288 67200 67200 29151 29151 15000 15000

50058 50058 88100 88100 16021 16021 85785 85785 07675 07675

02878 02878 27551 27551 15705 15705 82090 82090 65029 65029

99009 99009 32710 32710 33910 33910 22265 22265 31108 31108

97627 97627 63071 63071 38286 38286 03008 03008 66317 66317

59316 59316 06981 06981 02100 02100

Achtung

10817 98390 90952 38289 79952 90270 07075 95700 02523

10637 10230 88288 67200 29151 15000 50058 88100 16021

85785 07675 02878 27551 15705 82090 65029 99009 32710

33910 22265 31108 97627 63071 38286 03008 66317 59316

06981 02100

Ende

6433 kHz, 23-12, 1755 UTC:

272/33 Achtung

30260 30260 02527 02527 90767 90767 76091 76091 52957 52957
09300 09300 98606 98606 83882 83882 62853 62853 95683 95683
70030 70030 31960 31960 80358 80358 00012 00012 80838 80838
62975 62975 16583 16583 50013 50013 86799 86799 06063 06063
69507 69507 07060 07060 70782 70782 68020 68020 07852 07852
65107 65107 20313 20313 75065 75065 30692 30692 92761 92761
52538 52538 20131 20131 27687 27687

Achtung

30260 02527 90767 76091 52957 09300 98606 83882 62853 95683
70030 31960 80358 00012 80838 62975 16583 50013 86799 06063
69507 07060 70782 68020 07852 65107 20313 75065 30692 92761
52538 20131 27687

Ende

4441 kHz, 30-12, 2000 UTC: 260/30

260/30 Achtung

07096 07096 19969 19969 36625 36625 97260 97260 75200 75200
96822 96822 71862 71862 53068 53068 88003 88003 30515 30515
77118 77118 07621 07621 67016 67016 31515 31515 22306 22306
95859 95859 88688 88688 92616 92616 18096 18096 05500 05500
58365 58365 10355 10355 31969 31969 28820 28820 39068 39068
53298 53298 68613 68613 30606 30606 07506 07506 60127 60127

Achtung

07096 19969 36625 97260 75200 96822 71862 53068 88003 30515
77118 07621 67016 31515 22306 95859 88688 92616 18096 05500
58365 10355 31969 28820 39068 53298 68613 30606 07506 60127
Ende



S06 / S06s

3202 kHz, 01-12, 1930 UTC: 843 843 843 00000
5118 kHz, 01-12, 2030 UTC: 314 314 314 00000
3838 kHz, 03-12, 1905 UTC: 349 349 349 00000
3645 kHz, 11-12, 1800 UTC: 617 617 617 00000
3838 kHz, 13-12, 1905 UTC: 349 349 349 00000
3212 kHz, 15-12, 1930 UTC: 843 843 843 00000
3192 kHz, 17-12, 1900 UTC: 349 349 349 00000
3192 kHz, 20-12, 1900 UTC: 349 349 349 00000
3212 kHz, 22-12, 1930 UTC: 843 843 843 00000

3202 kHz, 24-12, 1900 UTC: 349 349 349 00000
3192 kHz, 27-12, 1900 UTC: 349 349 349 00000
8420 kHz, 31-12, 1300 UTC: 831 831 831 00000
10635 kHz, 31-12, 1310 UTC: 831 831 831 00000

12155 kHz, 27-12, 1200 UTC:
425 837 6
24035 47115 24151 51802 23807 84116
837 6 00000



S11a

6433 kHz, 08-12, 1020 UTC:

331/33 vniimanje

08232 08232 00679 00679 31278 31278 06327 06327 27329 27329
99278 99278 97783 97783 20031 20031 27210 27210 76322 76322
36623 36623 33916 33916 37722 37722 32030 32030 68778 68778
93237 93237 90817 90817 22638 22638 19039 19039 22030 22030
27792 27792 07938 07938 07273 07273 08283 08283 37238 37238
97099 97099 22371 22371 00723 00723 27389 27389 92933 92933
03991 03991 91731 91731 38806 38806

vniimanje

08232 00679 31278 06327 27329 99278 97783 20031 27210 76322
36623 33916 37722 32030 68778 93237 90817 22638 19039 22030
27792 07938 07273 08283 37238 97099 22371 00723 27389 92933
03991 91731 38806

kanyets

9610 kHz, 21-12, 1022 UTC: 426/00

12530 kHz, 24-12, 1015 UTC: 475/00

12530 kHz, 13-12, 1015 UTC: 221/00

6433 kHz, 26-12, 1020 UTC: 331/00

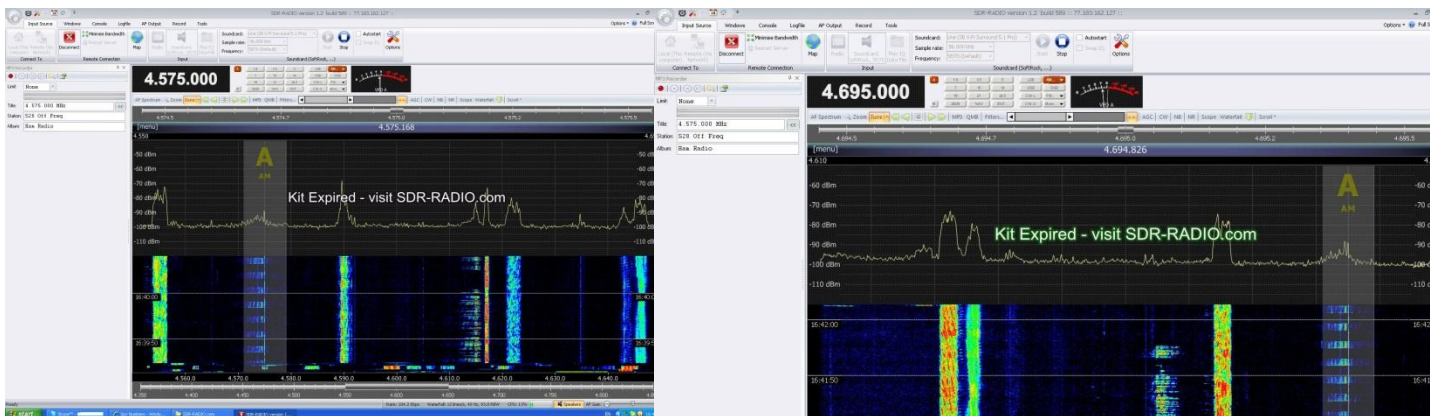


S28 - The Buzzer

Mode: USB
Frequency: 4625 kHz

02-12, 1320 UTC: MDZhB 70 699 GIPERSTEN 50 04 31 63
03-12, 1026 UTC: MDZhB 25 767 BEZDUMNYY 44 33 92 54
03-12, 1031 UTC: MDZhB 38 350 NINKHROTRON 52 38 86 98
03-12, 1032 UTC: MDZhB 55 979 DINOFEK 86 92 98 78
06-12, 0825 UTC: MDZhB 89 775 GARVIZ 96 27 01 84
06-12, 0827 UTC: MDZhB 08 008 KINODIALOG 67 55 50 11 sboj sboj sboj
MDZhB 08 008 KINODIALOG 67 55 50 11... MDZhB 08 008 KINODIALOG 67 55 50 11
06-12, 1027 UTC: MDZhB 42 204 VARANZER 57 08 79 16
06-12, 1030 UTC: MDZhB 64 632 VINKANTON 67 70 52 94
06-12, 1323 UTC: MDZhB 13 014 TINKAL' 79 08 15 70 GINETsEJ 98 28 76 54
06-12, 1324 UTC: MDZhB 03 301 DINGI 06 55 70 92 CHINAB 48 92 24 08
09-12, 2026 UTC: MDZhB 07 017 GAKLUN 47 88 99 56 PAKETNYY 17 87 98 74
09-12, 2032 UTC: MDZhB sboj sboj sboj
09-12, 2037 UTC: MDZHB MDZhB 94 177 MAKALU 71 54 68 73
09-12, 2039 UTC: MDZhB 12 218 TIMEYKA 80 13 78 46 SIMVOLIKA 30 61 94 86
13-12, 0909 UTC: MDZhB 706 780 GIL'DIYa 57 85 11 86..MDZhB 76 780 GIL'DIYa 57 85 11 86
24-12, 1812 UTC: MDZhB 60 331 TIL'DA 36 98 34 17 BIL'BOKE 67 26 10 63
24-12, 1815 UTC: MDZhB 73 710 BIL'BOKS 04 85 76 70 sboj sboj sboj MDZhB 73 710 BIL'BOKS 04 85 77 99
27-12, 0828 UTC: MDZhB 94 501 VILOTA 65 10 11 39
27-12, 1158 UTC: MDZhB 72 253 FILOKARTIYa 52 36 90 99
27-12, 1200 UTC: MDZhB 50 969 LILOVYI 83 02 51 91...MDZhB 50 969 LILOVY.. Sboj sboj sboj
MDZhB 50 969 LILOVYI 83 02 51 91
27-12, 1206 UTC: MDZhB 30 777 VILAShA 13 20 66 22
27-12, 1252 UTC: MDZhB 03 976 SILANOL 54 67 65 08
27-12, 1315 UTC: MDZhB 62 504 PILAV 47 (scream "?????" - "STOP") 95 53 31
27-12, 1319 UTC: MDZhB 28 708 PIKTS 39 35 47 65
28-12, 1137 UTC: MDZhB 51 810 SIKOMOR 34 71 20 30 TcILKLOSEDAL 47 70 28 06
29-12, 1340 UTC: MDZhB 70 953 VIKING 90 29 45 76
29-12, 1343 UTC: MDZhB 06 486 LIKVEMIN 50 18 13 44 MIKAROZA 91 81 57 72
31-12, 1334 UTC: MDZhB 90 844 PIZOLIT 56 01 85 20
31-12, 1345 UTC: MDZhB 76 186 KIZYaK 99 89 96 04

The buzzer appeared again on both 4575 and 4695 kHz. See the screenshots below, made by Dauntless.





S30 - The Pip

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

3756 kHz, 14-12, 2007 UTC: 8S1Shch 91 056 LENS MAN 41 67 77 18 Priyom
3756 kHz, 09-12, 2026 UTC: 8S1Shch 89 575 KONOSKOP 28 58 85 73 priyom
5448 kHz, 20-12, 1041 UTC: 8S1Shch TZNM FYa5E F61N MUZD RVNShch Zh7NZh VTKh3 Priyom
3756 kHz, 31-12, 1350 UTC: 8S1Shch 59 258 BARAKChAN 15 48 36 92
3756 kHz, 31-12, 1332 UTC: 8S1Shch 47 159 KONTROL' 38 49 56 56 Priyom



S32 - Squeaky Wheel

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

3828 kHz, 14-11, 2015 UTC: Al'fa45 96 770 HUNGARA 35 46 33 70 Vremya 0:15 (Time 0:15, Moscow time)
3828 kHz, 31-12, 1358 UTC: Al'fa45 86 077 KUBANIT 61 54 98 23 Priyom
3828 kHz, 31-12, 1340 UTC: Al'fa45 21 707 NAZNADA 35 27 88 73 Priyom



RMv/RNv/RNAv/RAv Russian military stations

Frequency: various
Mode: USB / voice

RMv:
2230 kHz, 15-12, 1920 UTC: Russian Mil. Male operator: MUSKAT-04 ya ISKRA-32, priyom VGHEOU GROM-10 VARIANT-1
2632 kHz, 15-12, 1341 UTC: Russian Mil. Female operator calling TSELINA-39
2632 kHz, 15-12, 1402 UTC: Russian Mil. ZHIKLER wkg TSELINA-39 and SERVIC-16
4060 kHz, 15-12, 1513 UTC: Russian Mil. Female operators PLOVETS-52 wkg KONTUR-51 and ARBUZ-52
2880 kHz, 18-12, 1932 UTC: Russian Mil. Female operator DELTA-80 calling RAMA-94.
3870 kHz, 19-12, 1907 UTC: Russian Mil. Female operator MALAGA-07 clg LIPA-02, PORT-24, PUNKT-80
2800 kHz, 22-12, 1831 UTC: Test count "...1294 35687 konec peredachi (end of transmission)"
4665 kHz, 23-12, 1302 UTC: Russian Mil. Female operator SALTA-34 clg FAUNA-87 and ARAK-74
5620 kHz, 23-12, 1355 UTC: Russian Mil. Male operator LITON-05 clg TRON-34
2880 kHz, 30-12, 1957 UTC: Russian Mil. Net, USB and LSB. DVORETS-26, ya NAPOR-05 , RASKAT-01 , DVORETS-26 dlya vas signal 5 devyatok? Signal PYAT' DEVYATOK? TVORETS-26, ya NAPOR-05

RAv:
6685 kHz, 21-12, 1336 UTC: Russian Air Force. c/s 76592 (Pskov based Il-76 Air Force RA-76592) voice msg : "dep SESCHA (Bryansk air base) to Pskov (air base) at 18:25 (Moscow time), fuel 35t"

Recordings made by Alex are available on the N&O website.



UMv - Ukrainian Military

A very busy Ukrainian military network was active on 7780 kHz (day freq) and 3780 kHz (night freq) on 26 and 27 December. Probably an exercise. Stations in the net include: PLUTON-01 (female), RUSAK-57 (male) . Calling to YAKOR-29, SEVAN-23, OLIVA-24, PASEKA-85, BYLYNA-89 (male voice) .

Recordings are available from the N&O website.



V13 - New Star Broadcasting Station

星星廣播電台 Xīngxīng guǎngbò diàntái

New schedules per 14 October.

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

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



V22 - Beijing

V22 is back !! The station was last reported in September 2009. Both Nick and Token copied it on December 25th.

Linkz found the station on another frequency and time slot. Well done gentlemen !

19260 kHz, 25-12, 0155 UTC: "Beijing calling" in progress + message.

19260 kHz, 25-12, 0210 UTC: Null message

19260 kHz, 25-12, 0235 UTC: Message

18520 kHz, 26-12, 0202 UTC: CC, YL, 4F

18520 kHz, 26-12, 0231 UTC: CC, YL, 4F

17430 kHz, 26-12, 0301 UTC: CC, YL, 4F

17430 kHz, 26-12, 0401 UTC: CC, YL, 4F

10320 kHz, 26-12, 1513 UTC: Beijing calling. Message 58. Number 06. 105 words/groups. 4FGs

19260 kHz, 27-12, 0210 UTC: Repeated at least once but transmitter seems to have problems.

In September was probably replaced by a digital mode, although there is no solid proof for that. The same happened to V16. Token mailed his ideas about this "... on the Mon, Wed, Thu, 1400, 1430, and 1500 schedules this past year it reverted back to voice for two weeks. It went roughly 2 weeks of voice, several months of digital, and roughly 2 weeks of voice, then off or changed times/days. If this matches or is similar to past V22 habits it might be a further indicator of a possible connection between V16 and V22."



V24

6215 kHz, 02-12, 1500 UTC: South Korean number station

5115 kHz, 02-12, 1533 UTC: Weak, other lead in music.



V26

4243 kHz, 31-12, 0915 UTC: Chinese YL, automated, but non-robotic. 3FGs



V30

Vietnamese numbers

Still active but not often reported. Yet is still seems to have a daily sked. I copied it on the 14th via the WebSDR Twente and on the 3st via a remote receiver in the USA.

10255 kHz, 14-12, 1600 UTC: Lady calling numbers, ba, bahm, num, bo, hi , kong,.

10225 kHz, 21-12, 1558 UTC: First transmission

10225 kHz, 21-12, 1610 UTC: Second transmission

10225 kHz, 21-12, 1614 UTC: Third transmission



VC01 - Chinese Robot
Chinese Air Defense

Modes: USB and LSB

The station changes its frequencies frequently. Known frequencies:

3036, 3749, 3837, 4075, 4258, 4343, 4410, 4422, 4427, 4480, 4530, 4580, 5195, 5232, 5288, 5303, 5328, 5330, 5393, 5592, 5700, 5742, 5802, 5832, 6209, 6479, 6771, 6840, 6858, 6860, 6949, 6960, 7090, 7351, 7608, 7684, 7726, 7739, 7744, 7756, 7770, 7792, 7864, 7865, 7880, 7890, 7924, 7938, 8000, 8025, 8170, 9000, 9169, 9192, 9290, 9340, 10508 kHz.

5742 kHz, 01-12, 1441 UTC

7938 kHz, 08-12, 0819 UTC

7938 kHz, 22-12, 0723 UTC

5742 kHz, 24-12, 1208 UTC, 1305 UTC

7938 kHz, 26-12, 0505 UTC, 0612 UTC, 0706, 0804, 0902 UTC

7938 kHz, 28-12, 0608 UTC, 0706 UTC, 0801 UTC, 1327 UTC

5742 kHz, 28-12, 1327 UTC

7938 kHz, 29-12, 0749 UTC

7938 kHz, 31-12, 0558 UTC, 0819 UTC, 0944 UTC

MORSE STATIONS



MX

Russian Military beacons

Current cluster frequencies:

3594, 4558, 5154, 7039, 8495, 10872, 13528, 16332, 20048 kHz

Other frequencies:

L 6917.5, 8497.8 kHz

V 3658, 4150, 6809, 6928, 7027.5 kHz

R 5466 kHz (seldom reported these days)

W 5835, 8162 kHz (Air Force)

Cluster beacon slots:

.7 "D", Sevastopol

.8 "P", Kaliningrad

.9 "S", Severomorsk

.0 "C", Moscow

.1 "A", Astrakhan

.2 "F", Vladivostok

.3 "K", Petropavlovsk Kamchatskiy

.4 "M", Magadan

Reported beacons and channel markers.

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

Asian Cluster Beacons: F, K, M

Channel markers: V on 3335, 3658, 5342 kHz



M01

4491 kHz, 27-12, 2000 UTC:

197 (R) 221 221 30 30 = =

09647 09647 69714 69714 13010 13010 97401 97401 13760 13760 83069 83069
 64082 64082 56875 56875 18822 18822 21780 21780 74300 74300 39334 39334
 74805 74805 73906 73906 80120 80120 10568 10568 29660 29660 04610 04610
 19783 19783 01165 01165 43279 43279 70748 70748 85493 85493 44628 44628
 45092 45092 71612 71612 94647 94647 24194 24194 82325 82325 21766 21766
 221 221 30 30 000



M03

5358 kHz, 01-12, 1531 UTC: 798/00 = = 000
 4828 kHz, 02-12, 1320 UTC: 437/00 = = 000
 4828 kHz, 11-12, 1115 UTC: 272/00 = = 000
 4828 kHz, 12-12, 1115 UTC: 650/00 = = 000
 4828 kHz, 16-12, 1322 UTC: 437/00 = = 000
 4828 kHz, 20-12, 1115 UTC: 650/00 = = 000
 5358 kHz, 22-12, 1535 UTC: 798/00 = = 000
 4828 kHz, 25-12, 1115 UTC: 272/00 = = 000
 5358 kHz, 29-12, 1535 UTC: 798/00 = = 000
 4828 kHz, 30-12, 1320 UTC: 437/00 = = 000



M12

5312 kHz, 05-12, 2200 UTC: 350 350 350 000
 4512 kHz, 05-12, 2220 UTC: 350 350 350 000
 5312 kHz, 12-12, 2200 UTC: 350 350 350 000
 4512 kHz, 12-12, 2220 UTC: 350 350 350 000

7931 kHz, 20-12, 1920 UTC:
 6904 kHz, 20-12, 1940 UTC:

257 257 257 1 3687 49
 79889 80550 31638 28841 16926 91604 02922 09203 75849 13265
 12825 54942 27382 77406 02391 35057 56141 52243 58160 77776
 43345 46142 78641 45475 06777 81645 51407 27819 00573 02214
 36277 11532 15395 19442 54311 36790 16643 73122 14550 37315
 83454 49049 14148 87580 17527 09288 12728 12235 25873
 000 000



M14

4637 kHz, 25-12, 1820 UTC:

186 186 186 752 742 15 15 = =
 73921 73921 64093 64093 17384 17384 62849 62849 16382 16382 05823 05823
 63711 63711 73420 73420 17463 17463 93875 93875 91726 91726 88264 88264
 10473 10473 28174 28174 72800 72800 = =
 752 752 15 15 00000

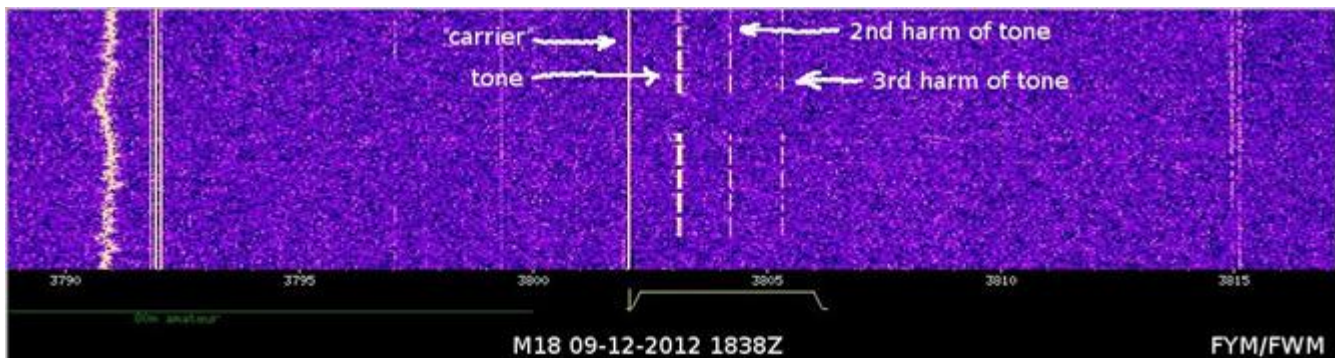
4762 kHz, 26-12, 1920 UTC:

748 748 748 200 200 15 15
 64724 64724 39817 39817 36190 36190 43871 43871 40925 40925 17389 17389
 24761 24761 93567 93567 37773 37773 81342 81342 93748 93748 19340 19340
 17386 17386 19305 19305 12347 12347 = =
 200 200 15 15 00000



M18

3803 kHz, 03-12, 1720 UTC: 2117 ... 2123 ...	3803 kHz, 10-12, 1603 UTC: 2105
3803 kHz, 05-12, 2013 UTC: 0315 0315 0316 ...	3803 kHz, 10-12, 1911 UTC: 0014
3803 kHz, 04-12, 1639 UTC: 2341 2341 2341 ...	3803 kHz, 11-12, 1533 UTC: 0142
3803 kHz, 04-12, 2248 UTC: 0550 ... 0550...0551 etc	3803 kHz, 11-12, 1834 UTC: 0442
3803 kHz, 08-12, 1900 UTC: 0000	3803 kHz, 11-12, 2020 UTC: 0628
3803 kHz, 09-12, 2214 UTC: 0428 0428 0429	3803 kHz, 13-12, 1029 UTC: 0039
3803 kHz, 09-12, 1753 UTC: 0059	3803 kHz, 13-12, 1600 UTC: 1959
3803 kHz, 09-12, 1809 UTC: 0114	3803 kHz, 13-12, 2034 UTC: 0034
3802 kHz, 09-12, 1821 UTC: 0127 0128 0129 0130 etc.	3803 kHz, 14-12, 1915 UTC: 0921 0921 0921 ...
3803 kHz, 09-12, 2052 UTC: 0358	3803 kHz, 19-12, 2217 UTC: 0222 0222
3803 kHz, 10-12, 0027 UTC: 0732	3803 kHz, 21-12, 1640 UTC: 2040 2040 2040 ...
3803 kHz, 10-12, 0306 UTC: 0805	3803 kHz, 21-12, 1948 UTC: 0049



FYM comments: "H2A modulated, CW tone is 1100 Hz (thus '3803.1 = A1A') but 2nd and 3rd (2200 and 3300 Hz respectively) harmonics of the tone are audible and visible.



M21 + variants

Russian Air Defence Forces

Boйcka ПBO Voyska PVO

Id "0": 3322, 4950.6 kHz

Id "8": 4481, 4951.5, 5752 kHz



M32

Russian/CIS/Ukrainian

Military CW Stations

frequency	date	UTC	remarks
2667	5-12-2012	1907	Russian Mil. "1QXI de OWZE K. OWZE de 1QXI K R K. 2TOK de OWZE ZPV ZNP ZZQ ZIP ZZQ ZNR ZUT ZYY AR"
2692	9-12-2012	2108	Russian Mil. c/s AFBA
2706	16-12-2012	2107	Russian Mil. TWN2 clg L7G4
2822	10-12-2012	1907	2JM2: CIS mil. Duplex radio checks with W1LA and MZ8D
3160.7	17-12-2012	1906	Russian Mil. RGT77 RGT77 456 = ROPTTI ????? KMTÖM GAGHP LZJYW BRGVB RFXMJ ACIÄI NJAKH OJGEF EZEUE CHÖUPF SYOCH CUPCEB
3164	5-12-2012	1808	Russian Mil. "GPFJ de JU9C ZUO ZAM ZKN QYT6 K"
3207	19-12-2012	2056	Russian Mil. KIZD clg ZHSK
3217	20-12-2012	2056	Russian Mil. c/s UDYE
3220	15-12-2012	1933	TTOO DE XAIA QTC K
3220	17-12-2012	1900	Russian Mil. VVV BPTA DE XAIA K. TTOO DE XAIA K
3261	6-12-2012	2058	Russian Mil. KMH2 wkg CNYM, GPGY, OIRO, 6H1T, TE6R
3395.5	5-12-2012	1928	RMZY: Russian navy ship "RCV DE RMZY"
3395.5	5-12-2012	1930	RIR96: Russian navy ship "RCV DE RIR96 QYT4"
3399	4-12-2012	2103	J9F2: Russian Mil. Sends msg to unid: "J9F2 906 34 5 0055 906 = ZAV 722 = 73441 29513 ... 97639 05030 727 K". Nothing further.
3775	1-12-2012	2118	HGD1: CIS military duplex radio check with 9PTL
3775	17-12-2012	2300	Russian Mil NCS. Ends 53-group message to unid: SDFSP AZKDW RPT AL QLN K (repeat back online). Nothing further. (17Dec12) (MPJ)
3826	1-12-2012	2111	LOJE: CIS military duplex radio checks with a.o. IZAW and YJCL
3861	21-12-2012	0711	NMK7: CIS military duplex net. 5FG message to MNNE after = 940 45 21 0909 940 = 72727
3861	28-12-2012	0653	NMK7: CIS military. Duplex net. 5FG message to MNNE
4482.8	10-12-2012	2002	4DNZ K
4483	15-12-2012	2002	WCLT K
4483	16-12-2012	2002	Russian Mil. WCLT K
4525.8	10-12-2012	2002	4DNZ DE PABJ R K
4635	5-12-2012	1911	RCQE: Russian navy ship "RJD99 DE RCQE QSA QTC 681 8 5 2229 681 SML FOR RJH74"
4754	7-12-2012	1912	MMLK: CIS mil. "BCJ9 DE MMLK QCZ K"
4761.5	28-12-2012	0740	Russian mil. "EPL9 DE EFEZ QTC 316 22 28 1125 316 = MXGMA"
5129	1-12-2012	1205	8CAT: Russian Mil. "yIII de 8cat 103 97 1 0800 103 = 147 = aaaaa yöino gzljy clykw "
5268	25-12-2012	2005	xxx xxx xxx 36182 01163 k
5286	19-12-2012	0513	Russian Mil. IK2G DE GVB2 QTC. GVB2 226 27 19 0910 226 = 754 BT KNIÖÖ NLSFL ChROLW NLSFL ChROLW NLSFL ChROLEXD ChÜUÖ YDXGL NTXIN VMHUO OLCUT ZKChBV KCKTP OÜPHK SÜHSX MÖFZF SBQSA ÖWWJI AKXKP XFAVM YBLNF HChChKU VQUA ÄOPWT K
5310.5	18-12-2012	1535	Russian Mil. FN7Q de OCS2 QRV K. OCS2 R 232 K.
5314	23-12-2012	0604	CIS military "EBOZ DE 8J23 QTC 78 9 23 0725 = ZKN = 32106"
5366	23-12-2012	0559	CIS military "ZAFT DE TLG2 QSA"
5378	7-12-2012	0836	Russian Mil. "MIRL DE IVDH NIL R I E S 5 Z E R 2 6 T QRV K"
5378	18-12-2012	1503	Russian Mil. TTYH QRV K. RPT 26 K. (Receiving tfc) R 773 K.
5736	23-12-2012	0511	NC1B: CIS military. Duplex net; radio checks with HWOS ,BZK8 ,CPOJ ,ISQ1 and YWQF
6220	18-12-2012	2000	FRXT: Russian Mil. Comms check with at least C6ZE QJ4Y BYMZ 8DVR XJT1 and FECJ. Prob Moscow-FE net.
6220.5	18-12-2012	1705	FECJ DE FRXT k. LWTM DE FRXT QTC k. = 727 16 28 30 50 727 = 80 3f iuimg huwaa5 ltr grps
6328	4-12-2012	1800	PRPW: Russian Military "R 994 K". Nothing further.

frequency	date	UTC	remarks
6988	27-11-2012	0657	CIS Mil. c/s WAFE
7679	6-12-2012	0716	Russian Mil. c/s PMTR
7779.5	26-11-2012	0833	CIS Mil. c/s ZDV6
7789	27-12-2012	0606	Russian mil. "DE 8L8V ZJD ZJJ ZHW K"
7824	29-11-2012	0758	CIS Mil. "NKAS NKAS NKAS DE MIF7 MIF7 QTC ZZH"
7890	26-12-2012	0923	Russian mil. "SOLA DE 2GHQ QRJ"
7922	29-11-2012	0658	CIS Mil. "35 RPT TL QLN U RPT K DGME QRV K DIN E Z N3M E2"
7931	2-12-2012	2004	Russian Mil. "...tnk d kci dkci de e1mz e1mz k...tnk 2s9f 2s 9f 2s9f de e 1mz e 1mz k...tnk zt bk zt bk ztbk de e 1mz e 1mz k...tnk"
7931	6-12-2012	1911	E1MZ: Russian Mil. SN8K de E1MZ QTC K. E1MZ ... __230 089 = 45_ = __ÄW I ____ (stepped on by M12 tuning up) ...RPT AL QLN K.
7969	17-11-2012	0610	Russian Mil "XXX WEGI 94194 OKEANOGRAF 4968 5336"
7969	6-12-2012	1106	CIS Mil "yzbj yzbj yzbj de z2h7 z2h7 qtc 48716 6 1502 487 = 452 = tuger mmmmm "
8543	29-11-2012	0938	FM1P: CIS Mil. "XXX XXX FM1P FM1P T5184 ANTI ZOZA 16T8 9T38 K"
10442	17-12-2012	1032	XXX XXX MFBH MFBH 73492 POLUGRUDA 4309 6596 TOLAJ 3975 7785
12707	25-12-2012	0912	Russian mil. "3YTS DE CNED QTC 204 22 25 1304 204 = 085 = PPPPP"
12854	21-12-2012	0806	N2FJ: Russian military "QTC 701 26 21 1150 701 = ZIF020 ="
18763	26-12-2012	1051	Russian Strategic Operational Command, i.p. "9381T 94215 K"
19209	27-12-2012	1259	Russian Strategic Operational Command. "XXX XXX WEGI WEGI 2716 R 75178 OKSID 5029 2152 K"



M32a

Russian Navy

Voyenno-Morskoy Flot Rossii

frequency	date	UTC	remarks
3159	4-12-2012	1205	OUYG: Russian Mil. Calls K9BR 7WTN without apparent success. K9BR de OUYG QLK R K. 7WTN de OUYG K"
3237	28-12-2012	2119	Russian Navy ip, "...= ar rmp k... hl80 de rmp k kmpo kas5 k..."
3370	21-12-2012	2137	Russian Navy. VVV RMP RMP RMP DE RFK99 RFK99 QSA K RMP DE RFK99 QYT4 OK K
3395.5	8-12-2012	1630	RFH70: Russian Navy. rcv de rfh70 qsa? k
3395.5	8-12-2012	1630	RCV: Russian Navy Sevastopol. rfh70 de rcv
3395.5	8-12-2012	1645	RFH71: Russian Navy. rcv de rfh71 qsa? k
3395.5	8-12-2012	1740	RCJG: Russian Navy Ship Ivan Bubnov. rcv de rcjg 76 3 8 2135 566 = 05100 82115 08002 = + rcjg k
3395.5	8-12-2012	1825	RMYZ: Russian Navy. rcv de rmyz 576 3 8 2217 576 = 50660 321__ 08002 = + rmyz k
3395.5	17-12-2012	1815	RCJG: Russian Navy Ship Ivan Bubnov. "qtc to rcv 159 18 17 2200 159 = sml for rjh45 rje73 = 17181 99359 10146 41998 02811 10150 40150 54000 70200 80000 22212 00170 20203 88000 17014 = + rcjg k"
3395.5	23-12-2012	1800	Russian Navy. rcv de ris94 711 18 23 2200 711 = smlfor rje73 rjh45 = 23181 99445 10358 41597 ...22262 ...23014 = + ris94
4635	9-12-2012	0608	RAY85: Russian Navy. rjd99 de ray85 773 17 9 1001 773 = for rjh74 rjd90 = 09061 99687 10431 41998 /1310 11100 40420 57010 70100 80030 22261 00010 20202 88000 09014 = + ray85 k
4635	9-12-2012	0612	RBC89: Russian Navy. rjd99 de rbc89 297 19 9 1001 297 = for rjh74 rjd90 = 09061 99688 10402 41/97 91311 11030 40370 54000 70222 89/// 22281 01030 20303 313// 40503 88000 09016 = + rbc89 k
4635	9-12-2012	0618	RAH82: Russian Navy. rjd99 de rah82 175 16 9 0941 175 = for rjd90 rjh74 = 09001 99666 10343 41/// /0708 11070 40300 54020 70011 8//// 22200 00010 88000 09013 = rah82 k
4635	9-12-2012	0622	RAH82: Russian Navy. rjd99 de rah82 512 16 9 1005 512 = for rjd90 rjh74 = 09061 99666 10340 41/97 91415 11070 40280 54020 70022 89/// 22310 00020 88000 09013 = rah82 k
4635	9-12-2012	0640	RCQE: Russian Navy. rjd99 de rcqe 398 20 9 1033 398 = sml for rjh45 rjh74 rjd90 = 09061 99666 10343 41/97 81411 11050 40305 56010 70022 8862/ 22200 00030 20402 88000 80000 09015 = + rcqe k
4635	9-12-2012	0726	RBC89: Russian Navy. rjd99 de rbc89 812 11 9 1115 812 = for rjd99 = 94797 40069 76487 00342 2662 24817 47672 15435 79072 09009 = + rbc89 k
4635	9-12-2012	1654	RAH82: Russian Navy. 988 16 9 2033 988 = for rjd90 rjh74 = 09181 99665 10359 41/97 90910 11060 40280 52020 72222 89/// 22232 00020 88000 09013 = + rah82 k
4635	9-12-2012	1725	RAH82: Russian Navy. rjd99 de rah82 723 16 8 2112 723 = for rjd90 rjh74 = 08181 99666 10343 41998 00908 11070 40320 54000 70112 80000 22200 00010 88000 08013 = + rah82 k
4635	9-12-2012	1745	RBC89: Russian Navy. rjd99 de rbc89 711 25 8 2130 711 = for rit rjd99 = 11111 07723 50258
4635	9-12-2012	1800	RHP86: Russian Navy. rjd99 de rhp86 30 17 8 2155 431 = for rjh45 rjh74 rjd90 = 08181 99665 10407 51/97 /1112 11060 40377 54002 70222 8//// 22200 00020 20302 08013 = + rhp86 k
4635	9-12-2012	1816	RAY85: Russian Navy. rjd99 de ray85 293 17 9 2210 293 = for rjh74 rjd90 = 09181 09690 10416 41/98 /1311 11005 40380 54000 70002 8//// 22221 00010 20304 88000 09014 = + ray85 k

frequency	date	UTC	remarks
4635	9-12-2012	1835	RCQE: Russian Navy. rjd99 de rcqe 455 18 8 2214 455 = sml for rjh45 rjh74 rjd90 = 08181 99666 10343 41/97 /1110 11080 40325 54000 70022 6//// 22200 00030 20201 08013 = rcqe k
4635	10-12-2012	0002	RMB81: Russian Navy. rjd99 de rmb81 714 18 10 0400 713 = for rjh74 rjd90 = 10001 99651 10367 41/97 81110 11100 40290 570__ 70202 22200 00010 299// 399// 88000 80000 10015 = + rmb81 k
4635	10-12-2012	0015	RCQE: Russian Navy. rjd99 de rcqe 122 18 10 0411 122 = sml for rjh45 rjh74 rjd90 = 10001 99665 10344 41/96 /0310 11060 40265 58040 77122 8//// 22222 00030 20503 10013 = + rcqe k
4851	6-12-2012	1808	Russian Navy "rcv de rir98 qsl 281"
4894	10-12-2012	1853	Russian Navy "RIT DE RGR35 QYT9 QSA?"
4894	10-12-2012	2006	Russian Navy. DE RIT OK AS 1 K RGR35 DE RIT K
4894	21-12-2012	2006	Russian Navy. RIT DE RGR35 K
4979	14-12-2012	2132	Russian Navy. RAL2 wkg RMW2 and RHQ2. Radio checks
5008	26-12-2012	0038	RBEG: Russian Navy Vessel. Msg to RCV ends "=AR RBEG K RCV DE RBEG OK QRUK"
5129	1-12-2012	1205	RIR98: Russian Navy "rcv de rir98 462 18 1 0400 462 = sml for rje73 rjh45 = 01001 99349 10358 41598 82601 10140 40200 54000 70222 82000 22200 00180 20000 88000 01014 = + rir98 k"
5322	20-12-2012	1731	Russian Naval Unit sets up encrypted Morse sked: ZYT LLLLLKKMKVMMMMVKLLKLLMLV JGKRZDHL ZCS ZRN AS1. Nothing further-QSYd?
5372	18-12-2012	1657	Russian Warship sends Message to RCV: RBEG 130 18 1935 322 = SML = MMMMMM JUFVX SQQPH ... AR RBEG K.
5380	1-12-2012	1631	RFE5: Russian Navy Vessel wkg RJD99
5982.8	27-12-2012	2306	Russian Navy vessel RIR96 wkg RGZ5 RCV
5984	9-12-2012	2319	RFH70: Russian Navy. rcv de rfh70 qsa? k qyt4 qmo k
6268	29-12-2012	0553	Russian Navy "RHT83 RHT83 DE RFH64 RFH64 QSA NO NO ZYT ZTU AR"
6290	19-11-2012	0003	RMC99: Russian Navy clg RMP
6836	3-12-2012	0525	RMW46: Russian Navy SLGs to unid "ZTC RMW46 08 31 3 0920 = 505 = ..."
6956	29-11-2012	0520	RMW46: Russian Navy wkg RGR97, RGR98, RDQ81, RFH46, RGR94 for ZSA?
7566	27-12-2012	0531	Russian Navy Sevastopol "RFH70 DE RCV QTC"
8345	1-12-2012	1205	RMYZ: Russian Navy "rcv de rmyz ...01001 99367 10262 4197 6181 10190 01014 = + rmyz k"
8345	1-12-2012	1205	RCJG: Russian Navy Ship Ivan Bubnov "rcv de rcjg 252 18 1 1000 252 = sml for rjh45 rje73 = 01061 99367 10265 41598 51414 10210 40149 57030 70221 85400 22272 00220 20304 88000 01014 = rcjg k"
8345	1-12-2012	1205	RFH70: Russian Navy "rfh70 99879 diridan 1109 1263 k"
8345	1-12-2012	1205	RJT22: Russian Navy "rjt22 99879 diridan 1109 1263 k"
8345	1-12-2012	1205	RCJG: Russian Navy Ship Ivan Bubnov "rcv de rcjg 784 18 2 2200 784 = sml fr rjh45 rje73 = 02181 99373 10260 41597 41515 10200 40099 57020 70211 84500 22272 00210 20504 88000 02014 = + rcjg k"
8345	6-12-2012	0605	RCJG: Russian Navy Ship Ivan Bubnov "rcv de rcjg 573 18 6 1000 573 = for rjh45 rje73 = 06061 99394 10255 41598 72504 10140 40047 52010 70222 87500 22242 00170 20202 88000 06014 = + rcjg k"
8345	6-12-2012	0611	RMYZ: Russian Navy "rcv de rmyz 691 18 6 1010 691 = sml for rje73 rjh45 = 06061 99406 10257 41497 70209 10100 40050 51004 70222 88200 22200 00170 299// 399// 06014 = + rmyz k"
8345	18-12-2012	1825	Russian Navy: rit de rko81 469 18 18 2205 469 = for rjh45 rjd38 = 18181 99550 10163 41597 78006 10040 20166 53030 70222 22253 00030 2//// 399// 88000 80000 18016 = + rko81 k
8345	23-12-2012	1215	Russian Navy Ship Lena. rmp de rko81 885 20 23 1600 885 = for rjh45 rjh74 rjd38 = 23121 99496 70008 41598 72308 10115 40066 52027 70222 87700 22200 00010 2//// 399// 88000 80000 23016 = + rko81 k
8345	23-12-2012	1808	Russian navy tug MB-304. rcv de rmyz 387 17 23 2202 387 = sml for rje73 rjh45 = 23181 99437 10325 41/97 /0205 10045 40230 51000 70222 22212 00095 299// 399// 23014 = + rmyz k
8345	23-12-2012	1816	Russian Navy Ship Lena. rmp de rko81 582 20 23 2200 582 = for rjh45 rjh74 rjd38 = 23181 99496 70008 41/97 /2704 10100 40066 54000 72122 8//// 22200 00010 2//// 399// 88000 80000 23016 = + rko81 k
8345	25-12-2012	1804	RKO81: Russian Navy Ship Lena. "rit de rko81 410 20 25 2200 410 = for rjh45 rjh74 rjd38 = 25181 99496 70008 41/98 /2412 10100 40019 52036 70222 8//// 22200 00090 2//// 399// 88000 80000 23016 = + rko81 k"
8345	27-12-2012	----	RFH70: Russian Navy DG Smetlivyj "38911 razvog 9506 3874 k"
8345	27-12-2012	----	RGZ59: Russian Navy LS Nikolay Filchenkov "38911 razvog 9506 3874 k"
8345	27-12-2012	----	RJT22: Russian Navy CG Moskva "24123 bidaik 3055 7359 k"
8345	27-12-2012	----	RGZ59: Russian Navy LS Nikolay Filchenkov "24123 bidaik 3055 7359 k"
8345	27-12-2012	----	RFH70: Russian Navy DG Smetlivyj "24123 bidaik 3055 7359 k"
8345	27-12-2012	----	RJT22: Russian Navy CG Moskva "16071 kamenen 3805 4584 k"
10388	20-12-2012	0824	RFH61: Russian navy ship wkg RIW
10543	20-12-2012	0846	Russian Navy "RBE86 DE RCV QTC 564 38 17 1540 564 ="
10984	8-12-2012	0950	RIW: Russian Navy. qso rfh70 after coord on 12464
12464	1-12-2012	1205	RCJG: Russian Navy Ship Ivan Bubnov "rcv de rcjg 138 18 3 1600 138 = sml for rjh45 rje73 = 03121 99402 10256 41998 12409 10180 40036 57030 70210 81000 22212 00180 20302 88000 03014 = + rcjg k")
12464	1-12-2012	1205	RCJG: Russian Navy Ship Ivan Bubnov "rcv de rcjg 518 18 30 1600 518 = sml for rjh45 rje73 = 30121 99347 10295 41598 41606 10230 40178 57010 70221 84200 22272 00230 20000 88000 30014 = + rcjg k"

frequency	date	UTC	remarks
12464	6-12-2012	0818	RIS96: Russian Navy "riw de ris96 qsa3 k - ok qap k - qsu1 qwh 12260 qsx 13086 k"
12464	6-12-2012	0818	RAL59: Russian Navy "riw de ral59 qsu1"
12464	6-12-2012	0820	RFH71: Russian Navy "rcv de rfh71"
12464	6-12-2012	1215	RFH71: Russian Navy "rcv de rfh71"
12464	6-12-2012	1215	RIS96: Russian Navy "riw de ris96 qsa3 k - ok qap k - qsu1 qwh 12260 qsx 13086 k"
12464	6-12-2012	1215	RAL59: Russian Navy "riw de ral59 qsu1"
12464	6-12-2012	1215	RMYZ: Russian Navy "rcv de rmyz 191 18 6 1600 191 = sml for rje73 rjh45 = 06121 99407 10250 41497 41104 10110 40050 51000 70122 84200 22222 00170 299// 3999/ 06014 = + rmyz k"
12464	6-12-2012	1215	RCJG: Russian Navy Ship Ivan Bubnov "rcv de rcjg 197 18 6 1600 197 = sml for rjh45 rje73 = 06121 99385 10253 41498 72404 10140 40047 54000 70222 87400 22232 00180 20000 88000 06014 = + rcjg k"
12464	8-12-2012	0715	RCJG: Russian Navy Ship Ivan Bubnov. rcv de rcjg ok qru k
12464	8-12-2012	0720	RMYZ: Russian Navy. rcv de rmyz 313 19 8 1307 313 = sml = 16116 73857 90115 18330 ... 08017 = + rmyz k
12464	8-12-2012	0720	RFH70: Russian Navy. rcv de rfh70 qyt4 qmo k qyt4 qwh 10492 k qyt4 qwh 8384 k qyt4 qls k qyt4 qwh 11429 k qyt4 qsx 9192/10984 k ok qyt4 qcm k
12464	8-12-2012	0915	RJT22: Russian Navy. rcv de rjt22 for rmyz qsu1 k
12464	8-12-2012	1000	RBEG: Russian Navy. riw de rbeg confirming msg fm raa then riw de rbeg sk 1002z - rbeg 849 51 8 1144 849 = fm raa = 80325 43182 13746 78491 ...
12464	8-12-2012	1215	RMYZ: Russian Navy. rcv de rmyz 313 18 8 1600 313 = sml for rje73 rjh45 = 08121 99403 10253 41497 51611 10120 40140 56003 70222 86301 22272 00170 299// 399// 08014 = + rmyz k
12464	10-12-2012	0752	RJL99: Russian Navy. rmp de rjl99 qsu1 qsa? k
12464	12-12-2012	0826	RDND: Russian Navy. riw de rdnd ok qrr3 qdw 10540 k - riw de rdnd qrr3 qdw 10540 qyd4 k - riw de rdnd qrr3 qyd6 - 0842z ok qrr3 sk
12464	23-12-2012	1202	Russian Navy Ship Ivan Bubnov. rcv de rcjg 187 18 23 1600 187 = sml for rjh45 rje73 = 23121 99367 10263 41497 83611 10110 40121 54000 70222 88200 22200 00160 20403 88000 23014 = + rcjg k
12464	23-12-2012	1202	Russian Navy Ship Ivan Bubnov. rcv de rcjg 187 18 23 1600 187 = sml for rjh45 rje73 = 23121 99367 10263 41497 83611 10110 40121 54000 70222 88200 22200 00160 20403 88000 23014 = + rcjg k
12464	23-12-2012	1230	Russian Navy tug MB-304. rcv de rmyz 688 18 23 1600 688 = sml for rje73 rjh45 = 23121 99433 10320 41497 80206 10054 40250 51000 70222 88203 22211 00095 299// 399// 23014 = + rmyz k
12464	27-12-2012	----	RJT22: Russian Navy CG Moskva "11408 natäpka 0647 7817 k"
12464	27-12-2012	----	RGZ59: Russian Navy LS Nikolay Filchenkov "95147 remontnik 1675 3240 k"
12464	27-12-2012	----	RIR96: Russian Navy "01408 natäpka 0647 7817 k"
12464	27-12-2012	----	RCJG: Russian Navy Ship Ivan Bubnov "01408 natäpka 0647 7817 k"
12464	27-12-2012	----	RFH70: Russian Navy DG Smetlivyj "78680 sbodworog 0470 5134 k"
12464	27-12-2012	----	RCJG: Russian Navy Ship Ivan Bubnov "78680 sbodworog 0470 5134 k"
12464	27-12-2012	----	RJT22: Russian Navy CG Moskva "78680 sbodworog 0470 5134 k"
12464	27-12-2012	----	RFH70: Russian Navy DG Smetlivyj RUS 1341 CW 84239 tanagra 8971 5900 k"
12464	27-12-2012	----	RCJG: Russian Navy Ship Ivan Bubnov RUS 1341 CW 84239 tanagra 8971 5900 k"
12464	27-12-2012	----	RFH70: Russian Navy DG Smetlivyj "95147 remontnik 1675 3240 k"
12464	27-12-2012	----	RCJG: Russian Navy Ship Ivan Bubnov "95147 remontnik 1675 3240 k"
12464	27-12-2012	----	RJT22: Russian Navy CG Moskva "95147 remontnik 1675 3240 k"
12464	27-12-2012	----	RJT22: Russian Navy CG Moskva RUS 1340 CW 84239 tanagra 8971 5900 k"
12464	30-12-2012	1041	RIR96: Russian Navy "rcv de rir96 411 16 30 1437 411 = for rje73 rjh45 = 30111 99350 10355 41998 13202 10290 40219 52010 70200 81001 22251 00190 29911 30013 = + rir96 k"
19201	6-12-2012	1215	RCV: Russian Navy Sevastopol "rmyz interrupted with xxx xxx rjv rjv 88743 siwoduoka 8274 3083" ack by rcjg and rmyz
21438	2-11-2012	0755	Russian Navy. "RIP90 DE RCV QTC 371 34 31 1541 371 = "
21438	10-11-2012	0802	Russian Navy. "RBE86 DE RCV nawip"
21438	10-11-2012	0806	Russian Navy. "RFH70 DE RCV QYT4 QSX 13648 K"
21438	10-11-2012	0858	Russian Navy. "RIP90 DE RCV QTC 371 34 31 1541 371 = "
21438	10-11-2012	0902	Russian Navy. "RBE86 DE RCV QTC 503 27 26 0101 503 = "
21438	15-11-2012	0804	Russian Navy. "RBE86 DE RCV QTC 526 30 13 1131 526 = "
21438	21-11-2012	0938	Russian Navy. "RIP90 de RCV" and RCV wkg RBE84, RIP90, RFH70, RFH71, RJT11, RJT22
21438	21-11-2012	0957	Russian Navy. "RJT22 DE RCV QYT9 QSX 8398 QCM K"
21438	22-11-2012	0810	Russian Navy. "RIP90 DE RCV QTC 431 30 21 0324 431 = "



M32b
Russian Naval Aviation
Aviatsiya Voenno-morskogo Flota Rossii

frequency	date	UTC	remarks
4979	14-12-2012	2132	RAL2: Russian naval aviation clg RMW2 and RHQ2 for radio check. RMW2 replies.
8816	5-12-2012	0928	52415: Russian Naval Air Transport "rjf94 rjc38 de 52415 qto 0919 qrd XLAA XLMV qre 1100 qbd 5000 k - qth 6607 3914 qtr 1021 qbg 5200 qre XLAA 1100 k - qqm xlaa 1105 k"
8816	5-12-2012	1215	RCB: Russian Naval Air Transport Kaliningrad "90740 de rcb qsa? k"
8816	8-12-2012	0853	52416: Russian Naval Air Transport. rjf94 rjc38 de 52416 qth 6647 3316 qtr 0851 qbg 6100 qre XLMV 0935 - qqm XLMV 0935 sk
8816	25-12-2012	0946	13004: Russian Naval Air Transport. "rcb rjf94 de 13004 qth 6006 2627 qtr 0945 qah 5800 qal XLLV 1015 qbd 0330 k - qqm XLLV 1020 sk
8816	27-12-2012	0902	08202: Russian Naval Air Transport "rjf84 rjc38 de 08202 qth 6413 3504 qtr 0901 qbg 6400 k - qth XLWF 331103 qtr 0955 qbg 5000 k - qqm XLWF 1013 sk"
8816	27-12-2012	1015	13004: Russian Naval Air Transport "rjf94 rcb de 13004 qto 1004 qrd XMKK XLLV qah 5500 qbd 0530 - qth 5945 2427 qtr 1100 qah 5500 qbd 0430 - qth 5820 2040 qtr 1145 qah 5500 qal XMKK 1245 qbd 0330"
8816	27-12-2012	1258	08202: Russian Naval Air Transport "rjf94 rjc38 de 08202 qto 1242 qrd XLMV XLWF qre 1500 qbd 14500 - qth 6328 3533 qtr 1343 qbg 6700 k - qay XLMG 1438 qbg 6400"
8816	29-12-2012	0823	Russian Naval Air Transport "rjf94 rjc38 de 52415 qqm XLMV 0823 sk"
11354	19-12-2012	1645	08185 An-12 Russian Naval Air clg PRIBOY. Passed point PEMAG (Sibir region) FL250 Fuel 11t
11354	19-12-2012	1754	08185 An-12 Russian Naval Air landed at Ekaterinburg Fuel 9t.



M32c
Russian Air Force
Voyenno-vozdushnye sily Rossii

4648 kHz, 06-12, 1035 UTC: Russian Air Force. xxx xxx 36406 rea4 rea4 barnewa 2333 7150 k



M41
Russian Air Defence Forces
Во́йска ПВО Voyska PVO

4444.4 kHz, 05-12, 1954 UTC: 51199129100 5119912800 029911 9912 441768955 ...
 4444.5 kHz, 07-12, 2000 UTC: Sending callsign "QM2E" and plots: 009934441766400 517993491005171 ...
 4959.0 kHz, 18-12, 1553 UTC: 5EQB 5EQB 5EQB AR 9981 441768152 0099 834417178 52 5 179983 9100 5119 ...
 4959.0 kHz, 17-12, 0639 UTC: Callsign 8OAW sending plots



M89

Chinese military

Stations and strings:

VVV Q2M Q2M Q2M DE NYZ NYZ QSA? k
V 7NPE 7NPE 7NPE DE QV5B QV5B
V DKG6 DKG6 DKG6 DE 3A7D 3A7D
V GKVZ GKVZ GKVZ DE Q7NW Q7NW
V ZKVZ ZKVZ ZKVZ DE Q7NW Q7NW (changed to ZKVZ on 16-12 back to GKVZ on 18-12)
V RXP7 RXP7 RXP7 DE CZT2 CZT2
V H2FL H2FL H2FL DE DRV8 DRV8
V WITN WITN WITN DE GNXG GNXG
V JF3M JF3M JF3M DE LG5P LG5P (new round slip)
VV MQ6D
VV 5YFJ
VV MEY3 DE S4BQ
VV 3RFM DE X7AT
HOSM DE D8IZ
FM7O DE JCOS
3UKF DE 4W3W
9TAV DE 4W3W
Other callsigns: ZUM9, GFX7, R9NF, TS1P

JPL logged again a large amount of M89 transmissions and discovered that DRV8 sometimes transmits on no less than 4 parallel frequencies: 3797, 4512, 6773 and 8040 kHz.

Messages:

8040 kHz, 29-11, 0015 UTC:

906../0393/.1/.9/0945/32./A/13/18 AR
UGT COMM BT
906/0693/03../11/29/0945/322../12/...
/0945/302/1/.02/18. AR

3776//3797//4512 kHz, 05-12, 2107 UTC:

NR 14 CK 91 67 1206 E511 RMKS 5.210 TO 54.. 5071 5340 BT
TU.. BADB UT7T6 5TA5 .D467 ... (Cont'd)
NR 15 CK 91 67 1206 0528 RMKS 5..1 TO 5482 5071 52.1 BT
74.6 4656 ... (Cont'd)

4385 kHz, 03-12, 1824 UTC:

VV MQ6D K. VV MQ6D K. VV MQ6D K
VV 5YFJ K. VV 5YFJ K. VV 5YFJ K

3292 kHz, 04-12, 1417 UTC:

NUA4 TD56 U75D UTNT 44N5... (Cont'd)
AR (Hard to copy as remote tuner is clipping the signal)
V JHNF K K
R RPT K
S RPT ..
R .S.2 K K
UV6.A D K K
.WRP.. K
VV A EEE VV UR. K K
DDK M K
HHB KK (1425z)
Voice came up on freq – perhaps SSB KK – Silent 1426z

3776//3797//4512 kHz, 07-12, 1957 UTC:

3797 still in round slip.

4A4A 46T. 7U.4 DT5T ... (Cont'd)

K K

R R E BT BT

UN5T UDT. D7D. K

R R R

To voice very briefly, 2001z silent

Some sort of data mode – 2002z

Data mode stops - Return to voice briefly – 2008z

3292 kHz, 04-12, 1437 UTC:

MSG NR ... CK 5000 BT

... 5000 ORA 1304.. OO BT

UT4D 6.3D 65AD 75N. (Cont'd)

3830 kHz, 05-12, 2244 UTC:

77N6 A.TN 7D. 53A3 666. (Cont'd)

AR HW WRK 4 DE DO.6 K

R 6. TU .. DE U7D EEE

R 6.W BT

UD6D UD6D AR

RPT K

R . AS AFM N. T3TU T3TU AR

.....

3776//4512 kHz, 08-12, 1558 UTC:

3763 A.67 4NNA AAN4 .66U ..N6 64UU U5T4 5TAA (Cont'd)

AR (1608z – Return to round slip)

5545 kHz, 10-12, 0034 UTC:

4NUA 34TU N.NA 3443 ..TT (Cont'd)
41W

5041 kHz, 10-12, 2255 UTC:

5ATN T5.. 5..4 6N4D 3..6 A.. (Cont'd)
AR
31A6 TA45 ADT4 AR K
RPT WNR 3.WO 32. BT A.. K
R (Silent – 2058z)

4225 kHz, 11-12, 1402 UTC:

30/G68/7024 AR VV UGT COMM BT 4591/2230/G68/7024 AR

5634 kHz, 11-12, 1542 UTC:

NR NR 8170 CK .894.2. .000 RMK 239. TO .426 K K
QSL QSL K
QSL 2.55 K
U7G GA
NR
OK 7QSL
QSL A QST QSL 2259 K
QSA NW ..
... NW K
BOZ . K SK (1545z silent)

3874 kHz, 08-12, 1615 UTC:

VV 3RF. DE X7AT K
VV 3RFM DE X7AT K
VV 3RF K
R (Silent – 1618z)

3169 kHz, 12-12, 2240 UTC:

RPT 09W
R R 45W
R CK QSL 06.9 K
R R 7G . 97 CK 91 42 1.130640 RMKS 8012 TO 8212 K
R
4N3. 7NNN EEEE =
4.3D 7NNN 35UT .D5T 7UAU 3DT5 6N6A 6... (Cont'd)
AR (2246z)
R R = 11W D4A4 D.A4 K
R 11W ... D4A4 K
R 74W ADN3 ADN3 K
9 EEE M.W TO 8W = =
.... T665 K
R R
Appears to have switched to voice - 2249z

3297 kHz, 18-12, 1356 UTC:

V GKVZ (x3) DE Q7NW (x2) (Cont'd) (UGT COMM msg sent 1358z.
Note: round slip now back to GKVZ
VV ...
C.63RAKS Z23.TO8618 UGT T.O .SS H = =
61 TK.1/Z61 GC/.306 237 NR .? 23 Q EEE = =
7A85. 4 Z61 8/U.23.K
73..1/.63./3W ST0 KEE 37 NR/Z230 AR

2349 8111 kHz, 07-12, 2330 UTC:

R R QSA 3 K K
R R HR NR 2.. K
R R ..
.Y. M.G V.Q. K
VV M.Y.KEYE. DE S4BQ K K
VV MEY3 DE S4BQ K K
VV MEY3 DE S4BQ K K
R R R R WB.J QSA . K
HR NR 206 K
R R ZB
MEY3 DE S4BQ K K
R R Z. M9 QSA 3 K
R R G. QT. GFQD ZS.3 K
R R GFX. QSA 3 K
R R
QSY QSY
QSY TO NR 03 K K
R R GFX7 QSA 3 K
R R HR NR 206 K K
R R QRW ZUM9 K K
R R GB
MEY3 DE S4BQ K K
ZUM9 K K
VV ZVM.
QSY NR 06 QSY NR 06 K
ZU.. ..
QSY ..

8111 kHz, 08-12, 0042 UTC:

R R 05 K K
R R 70W K
R R . W K
R R ..1W K K
R .. 30W K
QS. 1..
R R QSW K K
R R
R 0 R R 8.
R R .. K
R R .M KS K K
RPT ..
RPT HRE . RR SR NR .. GB NIL
RPT .CSR K K
R R QSL O EEEE R R QSL .55 K
NR QSL 2.55 K K
GB (0055z silent)

4244 kHz, 08-12, 1114 UTC:

R K
HOSM DE D8IZ K.....
R K
M.NT DE D8IZ K (1116z silent)

4175 kHz, 08-12, 1205 UTC:

.... DE JCOS QSA ? K
FM70 DE JCOS ...? K (Silent - 1205z)

3854 kHz, 13-12, 1138 UTC:

NDU3 7.A6 .7N7 TTAU (Cont'd)

3289 kHz, 12-12, 2254 UTC:

HDJ. K
DE R9NF K
QSA 2 K
SK SK
ZS.W K
DE R... K
R QSA 2 QSA ? K
QSA 2 K
SK SK
VV VV VV VV VV
DE TS1P CL K
VVV D TSJP CL K
SZSU
DE
DE SUX. K
R QSA 2 QSA ? K
OM. .
SK SK
ZSUW CL K
DE DE
DE A.6K K
R QSA 2 QSA ? K
R QSA 2 K
SK SK GB
CB (2302z silent)
(All stations on this freq - handsent - poor CW)

3865 kHz, 13-12, 1031 UTC:

7656 N6UN U73A .5N5 37NU (Cont'd)
AS (1032z silent)

3755 kHz, 12-12. 1208 UTC:

A7NT AR K
= 3AT. AR K
= 4A37 4A3J AR K
... AR K
= .AT4 .. T4 AR K
= 7NNT .NDT AR K
= GA K
R ... (Fading badly)

3282 kHz, 17-12, 2135 UTC:

R ASNW =
.. R K
R ..
OS EEE 0 EEE .2W TO 0. K
...5 5U4D DDA4 A3NT 6N6A
R
= 74DT D665 4555 U4.D DA4A 3NT5 N6A5 3N... (Cont'd)
K
.5W =
DA4A DA4A ..
R (2140z silent)

3797//4512 kHz, 18-12, 2030 UTC:

In traffic. UGT COMM msg followed by V H2FL (x3) DE DRV8 (x2)

3599 kHz, 10-12, 1612 UTC:

NR 80/. 12128.2.100000 RMKS 8292 TO 8236 8231 K (1612z)
R
13W
D6T4 K
HW K.A.
QSY VAM
HR T AW QSY AW EEEE 3. K
KRDO DE VI.. (Unsure to these callsigns)
.. K
QRM D544 M
22W

3812 kHz, 11-12, 1837 UTC:

QSL A QSL Y K 24 O K
OK GA GA//B (Both stations on this frequency)
HR ..NR O28/E/CK 200 GLS4..NATE1212 T.OIKH 1RMKS 4578 TO
4223 W
OK OK D. GA//B
JK OK BT BT
N5DA N.5 A67N .. (Cont'd)
R K
19.U (Silent)
JK OK QSL 250 HR W K NR 113
R K
OJ HR OK NR QS. 521 K
OK OK TKS WK GB GB//B
..GB GB
SK SK SK //B (1849z silent)

4620 kHz, 11-12, 2030 UTC:

R MA2 K
R IEC IEC AR
673. AR K
R SIC MK NR 101 K
R GA EE GA
R (Silent – 2032z)

3738 kHz, 13-12, 1126 UTC:

3D6A ..4N 5T 6D.. 5.N. (Cont'd)
AR AR
RPT
.W = 5NN. K
4W HT4N .4N
79W = 3T7D 3T7D
92W = WNII =NSA
RPT K
ER. RN. S 82.1 TO 8. K
4M.W K3AS. SA
49W = 7D3A 7D3A
R R
Switched to voice – 1133z

3704 kHz, 13-12, 1111 UTC:

34AD NT37 U465 T... (Cont'd – handsent)
AR (1114z silent)

3774 kHz, 17-12, 2147 UTC

R K
3UKF DE 4W3W K
R K
..YN DE 4W3W K
R K
9TAV DE 4W3W K
R K
..DA DE 4W3W K (2150z - silent)

3850 kHz, 12-12, 0016 UTC:

D64D 3A3N 5T6D DA7D 3N.D AR QSL ?
R RPT 47W K//B (Both stations on same freq)
R RPT 47W 5ADT 5ADT K
R QSL 8 EEEE R QSL 1815 HR WK NR .5 K //B
WK NR 28 K
R .NIL SK//B
R NIL SK (0019z silent)

3679 kHz, 13-12, 2049 UTC:

AAT3 D7A6 4.TT TD53 3DDN (Cont'd) AR
49W = 47T. K
75W KEEE
OK

4519 kHz, 12-12, 0046 UTC:

MSG 7G K
AS AS//B (Both stations on same freq)
GA GA //B
NR 27 CK 89 CLS 82 .212 O84. K
GA GA//B = =
AXUEEEE
A375 U7NT 735. 5T54 557U 6U4T .6N.. (Cont'd - handsent - very slow) K
RPT 9.W K//B
7. G K (0059z)
.. NR 95 CK =
NR 26 CK 95 CLS 34 1212 .900 K
R R
NR NR //B NR NR //B
AS AS
MSTDU ..5 N5K. 5AUN T5DT AUA3 T4N6 (handsent - very slow)



M97

Vietnamese numbers

Frequency: 10375 kHz
Mode: Morse

10375 kHz, 28-12, 1605 UTC: K K K 50 50 then 5FG's like 68475 60683 24692 10162 etc at the end a lot of 'K's. Then a lot of 'A's and the 2nd block:
sd77 kkk sd77 kkk sd77 kkk ht ht sn80 sn80 sn80 03027 etc
sd78 kkk sd78 kkk sd78 kkk ht ht sn30 sn30 sn30 etc. Ends at 1537UTC



MVC03

8073 kHz, 28-12, 1215 UTC. Badly hand keyed. "773357365 4049934473654dt 6773357373 4463" etc.

VARIOUS MODES



HM01 & SK01

Dirección General de Inteligencia

HM01

10345 kHz, 16-12, 0600 UTC: Mixed V02a/SK01 messages. Recording by Nick can be downloaded from the N&O website.
5855 kHz, 19-12, 0500 UTC: Voice/RDFT: 72125 RDFT 66035 RDFT 38025 RDFT 92035 RDFT 18335 RDFT 68145 RDFT 71125 etc.
11635 kHz, 21-12, 2100 UTC: 5FGs and RDFT data, low modulation. IP. No decode.
10715 kHz, 21-12, 2200 UTC: 5FGs and RDFT data. IP. No decode.

16180 kHz, 25-12, 2140 UTC: in progress, ended around 2155. Alternating one voice group with same in RDFT

16180 kHz, 29-12, 2147 UTC: in progress

5855 kHz, 31-12, 0502 UTC. Calls 27481 91691 70133 20867 01275 03081. 27481 was the first RDFT Tx

This does not sound like previous HM01s Txs: there are appreciable gaps between... the end of callup and the start of the RDFT preamble; between the RDFT preamble and the start of the RDFT payload; and between the end of the RDFT payload and the start of the callup.

5855 kHz, 31-12, 0538 UTC: Calls 03081 27481 91691 70133 20867 01275... 03081 was called up first and Txed first.

SK01

5898 kHz, 05-12, 0600 UTC: Tx repeating every 5 minutes

5800 kHz, 05-12, 0655 UTC: Tx & dead air. 0700 UTC: Tx repeating every 5 minutes

5800 kHz, 05-12, 0729 UTC: Tx & dead air, repeating every 5 minutes

5800 kHz, 05-12, 0749UTC: Tx begins

9124 kHz, 09-12, 0602 UTC: Tx & dead air; repeating every 5 minutes until...

Russian Government & Intelligence

M42, M42a & X06



Modes:

Various digital modes, CW, voice, tones (Мазелка / Mazielka)



M42

8100 kHz, 28-11, 0726 UTC: Russian Diplo. Mode: CROWD-36/OFDM

11109 kHz, 12-12, 1213 UTC: Russian Intel. Mode: FSK 200/1000

9178 kHz, 12-12, 1222 UTC: Russian Intel. Mode: FSK 200/1000

18290 kHz, 12-12, 1339 UTC: Russian Intel. Mode: 45 tone OFDM modem. Traffic in USB

19305 kHz, 12-12, 1339 UTC: Russian Intel. Mode: 45 tone OFDM modem. Traffic in USB

16123 kHz, 12-12, 1458 UTC: Russian Intel. Mode: 45 tone OFDM modem. Traffic in USB

14968 kHz, 12-12, 1500 UTC: Russian Intel. Mode: 45 tone OFDM modem. Traffic in USB

17481 kHz, 16-12, 0900 UTC: Russian Intel. 12 block message. Mode: FSK 200/1000

15904 kHz, 16-12, 0910 UTC: Russian Intel. 12 block message. Mode: FSK 200/1000

13521 kHz, 16-12, 0920 UTC: Russian Intel. 12 block message. Mode: FSK 200/1000

17481 kHz, 16-12, 1100 UTC: Russian Intel. 12 block message. Mode: FSK 200/1000

15926 kHz, 16-12, 1110 UTC: Russian Intel. 12 block message. Mode: FSK 200/1000

13561 kHz, 16-12, 1120 UTC: Russian Intel. 12 block message. Mode: FSK 200/1000

11489 kHz, 16-12, 1530 UTC: Russian Intel. 4 block message. Mode: FSK 200/1000

9234 kHz, 16-12, 1540 UTC: Russian Intel. 4 block message. Mode: FSK 200/1000

7821 kHz, 16-12, 1550 UTC: Russian Intel. 4 block message. Mode: FSK 200/1000

13473 kHz, 17-12, 1206 UTC: Russian Intel. Mode: FSK 200/1000

11107 kHz, 17-12, 1216 UTC: Russian Intel. Mode: FSK 200/1000

9177 kHz, 17-12, 1226 UTC: Russian Intel. Mode: FSK 200/1000

13471 kHz, 18-12, 1207 UTC: Russian Intel. Mode: FSK 200/1000

3175 kHz, 21-12, 0645 UTC: Russian point to point. Crypto. QSX 3300 kHz. Mode: RUS-ARQ 100/500

3300 kHz, 21-12, 0638 UTC: Russian point to point Riga area. Crypto. QSX 3175 kHz. Mode: RUS-ARQ 100/500

4585 kHz, 21-12, 0751 UTC: Russian point to point. Crypto. Mode: RUS-ARQ 100/500

10405 kHz, 20-12, 0818 UTC: Russian diplo. Mode: CROWD-36

6830 kHz, 29-12, 0630 UTC: RDP-5: Russian Gov. Mode: Baudot 50/500. Op-chat "RYRYRY RMC-27 RMC-27 RMC-27 de RDP-5 RDP-5 ... ZDR ZDR WAS PVL W NORME WAV S PRAZDNIKOM ... GODOM WM TAKWOVE SAMOGONAMLUREGO SOKOLOW ZVV ZVV ...". (text is a bit garbled). Then into RUS-ARQ 100/500 at 0645 UTC

M42a

7697 kHz, 05-12, 0757 UTC: Russian HFDF net "3K VVV 3K"

X06

6859 kHz, 02-12, 1456 UTC: Mazielka. Sequence: 123456

12207 kHz, 07-12, 1355 UTC: Mazielka. Sequence: 215346

14650 kHz, 20-12, 1229 UTC: Mazielka. Sequence: 215346

14863 kHz, 28-12, 1206 UTC: Mazielka. Sequence: 615243



XP family

8164 kHz, 11-12, 1900 UTC: 138 138 138 000 138 138 138 000 138 138 138 000 6 01199 0000 00000 11140

8164 kHz, 13-12, 1900 UTC: 138 138 138 000 138 138 138 000 138 138 138 000 09923 1 00000 1014 0

8164 kHz, 18-12, 1900 UTC: 138 138 138 000 138 138 138 000 138 138 138 000 05912 00001 00000 10140

8164 kHz, 25-12, 1900 UTC: 138 138 138 1 138 138 138 1 138 138 138 1 666662266262 Message Start

7364 kHz, 25-12, 1920 UTC: 00506 00199 48844 63784 78466 17334 26576 35831 82063 17778 22110 2271 3282 3005221333

5864 kHz, 25-12, 1940 UTC: 8844 33226 6666 37477 87007 66666 00666009411 0120512766 9988178445 4444 9551185399

55588 0032 35024489955 0022 8328 87619 80033 003444 6887726811 14885 5563 02306 66621

9900004 44087 97125 57728 87727 19341 13415 91170034499 88552 99416 02165 20873 32533

72797 09998 71062 98880 398933 22614 01425 80563 60921 26919 15637 69007 59914496548

14476 17285 93000 35729 06617 66653 83922 50394 14571 89245 01040 97485 78509 18573

35834 93575 12027 25835 89059 92603 39776 63374 69584 00521 34827021423 92986 45181

21654 82631 11768 75249 52155 46864 47023 93377 65601 05753 49895 44760 06715

49455442727 59972 12945 79285 54983 50321 55981 41184 19356 62912 05773 68078 25486

8768 57499 33267 33370 86261 3514 85749 76574 25522772229 35003 11260 73370 12653

8164 kHz, 27-12, 1900 UTC: Partly decoded. 138 138 138 1 138 138 138 1 138 138 138 1 666622262622 666662266662666666

5864 kHz, 27-12, 1940 UTC: Message Start 00506 00139 44864 63784 78436 17334 26576 35831 82063 17878 62610 32781

32824 53005 2393 78148 93126 26611 37487 28707 66996 30626 0943 02205 2276 49881 78551

4999949500 5592 5555 90322 024 88955 70821 88328 87619 80037 03744 46887 26817

14815 45563 02306 67219 00045 44087 97125 57328 87127 19341 13415 91170 34499 88552

99416 02165 20873 32533 72797 09998 71062 98080 39893 2461 004425 80563 60911 26999

1533 9900 55551496558 4477 7225 99300 33779 00017 653 83922 50394 14571 89245 01040

97485 78509 18573 35834 93575 12027 25835 89059 92603 39776 63374 69584 00521 34827

21423 92986 45181 21654 82631 11768 75249 52155 46864 47023 90377 65601 05753 49895 4

760 06715 49445 42727 59972 12945 79285 54983 50381 55981 48184 19356 62912 05973 68078

25486



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

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

Mode: QPSK 1500bd

Reportedly telemetry transmitted by the Japanese navy



OLO32
Bezpečnostní informační služba
Security Information Service

14446.4 kHz, 12-12, 1511 UTC, Mode: SITOR-A 100/170: IVSU, hex offline crypto text
18436.4 kHz, 13-12, 1252 UTC, Mode: SITOR-A 100/170: IVSU, hex offline crypto traffic



North Korean diplomatic stations

10228.4 kHz, 01-12, 1410 UTC, DPRK-ARQ 1200/1400
11198.4 kHz, 01-12, 1259 UTC, DPRK-ARQ 600/600
20006.5 kHz, 04-12, 0920 UTC, DPRK-ARQ 600/600
22323.5 kHz, 04-12, 0910 UTC, DPRK-ARQ 600/600



Egyptian diplomatic stations

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

8121.7 kHz, 02-12, 1944 UTC Egyptian Diplo. Mode: SITOR-A 100/170
16341.7 kHz, 10-12, 1423 UTC Egyptian Diplo. Mode: SITOR-A 100/170. Selcal KKXD unknown embassy.
20315.0 kHz, 13-12, 1325 UTC "33314" Egyptian Embassy, Abidjan traffic to "99907" MFA Cairo.
Mode: Codan 9001/3012 16 tone HF modem



Algerian diplomatic stations

8002 kHz, 26-11, 0906 UTC, USB voice: Algerian Prefecture "Karim" wkg "Vacation"



Sudanese diplomatic stations

21000.0 kHz, 10-11, var. times: MFA Khartoum calling Sudanese embassy Yemen for Pactor 1 traffic, whistling, male persons. Mode: USB
21002.1 kHz, 10-11, var. times: MFA Khartoum encrypted traffic to Sudanese embassy Yemen. Mode: Pactor-1 100/170

UTILITY ROUND-UP



Jammers

6060 kHz, 06-12, 1344 UTC: North Korean jammer

9680 kHz, 12-12, 1520 UTC: Chinese jammer



Beacons

Chris Smolinski reports a so far unidentified network of ditfer CW beacons. They were first noticed on December 4th. Each transmission is about 90 milliseconds long, and repeats about every 6 seconds. More than one station has been noted on a frequency, transmitting at a different time slot, and received with a different signal strength. Chris has a blog about this net on <http://www.hfunderpants.com/?p=1155>. If you have additional information or can help identifying this net, please let us know. Below is a list of the frequencies that have been observed so far:

4920	6240	7025	7928	8530	9479	13250	17475	19300
5140	6270	7038	8000	8669	10050	13325	17650	19650
5220	6420	7250	8040	8799	10200	14400	17950	20100
5380	6550	7460	8160	8975	10364	15100	17975	20175
5839	6720	7469	8167	9050	10575	15400	18050	20250
5880	6750	7570	8275	9190	11025	15625	18100	22050
5970	6820	7695	8280	9190	11150	16000	18200	24050
6200	6920	7700	8400	9198	11225	16550	18450	
6225	6934	7922	8413	9225	13100	16725	18625	



Unid stations

Copied by Les on 13994.1 kHz on 7 Dec. at 1052 UTC in CW. Short zero. Could be Russian or Ukrainian. Clues anyone? On the right the message as noted by Les. Below an edited version. Could this be the format???? If that is the case it also could be Chinese as they often are sending 3-character messages.

NXR 708 K NXR 708 K NXR 708 K NXR 708 K
EÜX TRP RAK ENG QZH ZDL RPA WÜC CFY UAE RGO ÄDZ HDV
GRN EAK WAY CYU PGG NRW SID LQD ZZR KVK WKT 4TK
NXR 708 K NXR 708 K NXR 708 K NXR 708 K

NXR708 K NXR708 K NXR708 K NXR708 K
E Ü X T R P R A K E N G
Q Z H Z D L R P A W Ü C C F Y U A E R G O
Ä D Z H D V
G R N E A K W A Y C Y U P G G N
R W S I
D L Q
D Z Z R K V K W K T 4 T K
NXR708 K NXR708 K NXR708 K NXR708 K

5249 kHz, 17-12, 1558-1601 UTC, CW.

Unid in progress. Probably Chinese. Copied by JPL.

UHU AR
UAA AR
.TU AR
IAV AR
VRI AR
TDG AR



Polish Air Force net

Tony sent us several logs of a Polish Air Force net in progress with training transmissions. Danix was so kind to translate the text.

Recordings can be found here:

<https://soundcloud.com/atcmanch/28-nov-2012-0740-6-354mhz>

<https://soundcloud.com/atcmanch/19-dec-2012-0740-6-354mhz>

6354 kHz, 28-11, 0740 UTC, USB/voice.

6354 kHz, 19-12, 0740-0750, 0810 UTC, USB/voice

10530 1920 0815 105 chapter AAF chapter DSDDA XAZVN FURHU EXHOF ODAAZ NOBUA URSNR MACSC FCCUQ LPASQ USCIX
ADMNK UOZSR TEZSR NSJQV GVVCP XIASE DFJAU OIRBX FFFFB
Wait

PB3 PB3 5MN 24150 24150 this is 5MN, over
DDR received (DDR otrzymał)
YZF received (YZF otrzymał)
OQ8 received (OQD otrzymał)

55R this is 5MN, did you receive my last signal, over
(55R unintelligible)
55R received

B3P this is 5MN, continue, I am continuing transmission, chapter FFFFB LFSUI PFPKT DSOOX KUMRJ FYPCK VZXMP BZNOV
UHRUF chapter SAG over

OM: 5MN this is 55R, repeat the header, over

55R this is 5MN, I repeat, 10530 1912 0815 105 over

OM: 5MN this is 55R, repeat the signature, over

55R this is 5MN, giving it... (recording ends)



Unid 10 minutes network

Alex reports that ZJL4 has abandoned 3809 kHz. The station switched frequency to 3860 kHz and changed its callsign to KTR4, a well-known one for this net. Transmission times are h15-h25 and h45-h55.

On the 18th, Attu spotted D6AN on 3695 kHz at h20-h30 and h50-h00.

Below an overview of the callsigns, frequencies and times so far. If you have any additions please let us know.

Schedule 1	Schedule 2	Callsign	Frequencies
05-15	35-45	DJEF	3753
05-15	35-45	ZJL4	3809
07-17	37-46	SFO3	3698
10-20	40-50	IGAE	3698
10-20	40-50	L6YC	3205
10-20	40-50	NELC	3517, 3700
10-20	40-50	WF3A	3505
15-25	45-55	4KUE	3285, 3958
15-25	45-55	KTR4	3207, 3860
15-25	45-55	L6YC	3207, 3860
15-25	45-55	POCI	3700, 4136
20-30	50-00	B4NR	4036
20-30	50-00	D6AN	3695
20-30	50-00	MWKJ	3343
20-30	50-00	U34D	3241
23-33	53-03	Q7JN	3265, 3956
25-35	55-05	Q7JN	3265
25-35	55-05	U34D	3420
25-35	55-05	UXUO	3700, 4136
25-35	55-05	VTI8	3700
25-35	55-05	VTID	3178, 3802

Intelligence profile: Australia



BACKGROUND

Aboriginal settlers arrived on the continent from Southeast Asia about 40,000 years before the first Europeans began exploration in the 17th century. No formal territorial claims were made until 1770, when Capt. James COOK took possession of the east coast in the name of Great Britain (all of Australia was claimed as British territory in 1829 with the creation of the colony of Western Australia). Six colonies were created in the late 18th and 19th centuries; they federated and became the Commonwealth of Australia in 1901. The new country took advantage of its natural resources to rapidly develop agricultural and manufacturing industries and to make a major contribution to the British effort in World Wars I and II. In recent decades, Australia has transformed itself into an internationally competitive, advanced market economy. It boasted one of the OECD's fastest growing economies during the 1990s, a performance due in large part to economic reforms adopted in the 1980s. Long-term concerns include ageing of the population, pressure on infrastructure, and environmental issues such as frequent droughts.

GENERAL

Country name: Commonwealth of Australia
Short name: Australia
Capital: Canberra
6 states: New South Wales, Queensland, South Australia, Tasmania, Victoria, Western Australia
2 territories: Australian Capital Territory, Northern Territory
Dependent areas: Ashmore and Cartier Islands, Christmas Island, Cocos (Keeling) Islands, Coral Sea Islands, Heard Island and McDonald Islands, Macquarie Island, Norfolk Island

MILITARY

Australian Defense Force (ADF): Australian Army, Royal Australian Navy, Royal Australian Air Force, Special Operations Command

INTELLIGENCE & SECURITY AGENCIES

Parliamentary Joint Committee on the Australian Security Intelligence Organization

National Security Committee (NSC)

Secretaries Committee on National Security (SCNS)

National Counter-Terrorism Committee (NCTC)

National Intelligence Coordination Committee (NICC)

National Intelligence Collection Management Committee (NICMC)

National Intelligence Open Source Committee (NIOSC)

Inspector-General of Intelligence and Security (IGIS)

Australian Security Intelligence Organisation (ASIO)

Australian Secret Intelligence Service (ASIS)

Office of National Assessments (ONA)

Defence Intelligence and Security Group (DISG)

Defence Imagery and Geospatial Organisation (DIGO)

Defence Intelligence Organisation (DIO)

Defence Signals Directorate (DSD)

Australian Army Intelligence Corps (AUSTINT)

1st Intelligence Battalion

Australian Federal Police Intelligence Division (AFP)

Australian Crime Commission (ACC)

Australian Customs and Border Protection Service Intelligence Group

Inspector-General of Intelligence and Security (IGIS)

The IGIS provides independent assurance for the Prime Minister, Senior Ministers and Parliament as to whether Australia's intelligence and security agencies act legally and with propriety by inspecting, inquiring into and reporting on their activities. The IGIS may inquire into matters concerning ASIO and investigate complaints about us from the public. She reports annually to Government and publishes an unclassified version of the report for parliamentary and public readers. If it is in the public interest, other IGIS reports on specific issues or complaints may be tabled in Parliament and sometimes published.

The *Parliamentary Joint Committee on Intelligence and Security (PJICIS)* reviews ASIO's (and other intelligence agencies') administration and expenditure, and may also conduct inquiries into matters relating to the intelligence agencies. Specifically with regard to ASIO, the PJICIS is also responsible for reviewing the listing of an organisation as a terrorist organisation under the Criminal Code Act 1995; and reviewing ASIO's use of questioning and detention powers. The PJICIS's comments and recommendations are reported to each House of the Parliament and to the responsible Minister.

The *National Security Committee (NSC)* is a Cabinet committee and the peak ministerial decision-making body on national security matters. It is chaired by the Prime Minister and the membership includes the Deputy Prime Minister, Attorney-General, Treasurer, Minister for Foreign Affairs, Minister for Defence and Minister for Immigration and Citizenship.

The *Secretaries Committee on National Security (SCNS)* is the senior inter-departmental committee supporting the National Security Committee. It considers all matters to be put before the NSC and has a strong role in ensuring that Australia maintains a coordinated policy approach on all national security issues. It is chaired by the National Security Adviser.

The *National Counter-Terrorism Committee (NCTC)* is a national body comprising representatives from the Government of the Commonwealth, States and Territories. It was established by the Inter-Governmental Agreement 24 October 2002. The role of the NCTC is to contribute to the security of the Australian community through coordination of a nation-wide cooperative framework, known as the National Counter-Terrorism Plan, to counter terrorism and its consequences.

The NCTC:

- maintains the National Counter-Terrorism Plan (NCTP) and associated documentation
- provides expert strategic and policy advice to heads of government and other relevant ministers

- coordinates an effective nationwide counter terrorism capability
- maintains effective arrangements for the sharing of relevant intelligence and information between all relevant agencies and jurisdictions

provides advice to the Australian Government on the administration of a special fund to maintain and develop the nationwide capability.

The [*National Intelligence Coordination Committee \(NICC\)*](#) is to ensure that Australia's foreign, security and law enforcement intelligence activities are closely aligned and consistent with the national security priorities, and that the national intelligence effort is effectively integrated. It is chaired by the National Security Adviser and contains representation from all intelligence and security agencies.

The [*National Intelligence Collection Management Committee \(NICMC\)*](#) is a subcommittee of the National Intelligence Coordination Committee and is responsible for setting specific requirements and evaluating collection effort against each of the National Intelligence Priorities (NIPs). It is chaired by the Director General of the Office of National Assessments.

The [*National Intelligence Open Source Committee \(NIOSC\)*](#) is a subcommittee of the National Intelligence Coordination Committee and is responsible for enhancing the coordination and capabilities of the national intelligence community's open source efforts. It is chaired by the Director General of the Office of National Assessments.

[*Australian Security Intelligence Organisation \(ASIO\)*](#) was established in 1949 as Australia's national security intelligence service. ASIO operates under the direction of the Director-General of Security who is responsible to the Attorney-General. ASIO's role is to identify and investigate threats to security, wherever they arise, and to provide advice to protect Australia, its people and its interests. ASIO's functions are set out in the The Australian Security Intelligence Organisation Act 1979 (the ASIO Act).

Security is defined in the ASIO Act as espionage, serious threats to Australia's territorial and border integrity, sabotage, politically motivated violence, the promotion of communal violence, attacks on Australia's defence system, and acts of foreign interference. It also includes the carrying out of Australia's responsibilities to any foreign country in relation to threats to security with a particular focus on politically motivated violence.

ASIO also provides security assessments and protective security advice. Security assessments cover, for example, people holding or seeking national security clearances; in the case of some visa applicants, whether they should be allowed to enter or stay in Australia; or access to sensitive areas or goods, such as air and maritime port restricted zones. Protective security advice is provided to government agencies and, through the agency's Business Liaison Unit, owners of critical infrastructure and others in the private sector.

ASIO is further responsible for the collection of foreign intelligence in Australia, at the request of the Minister for Foreign Affairs or the Minister for Defence.

The [*Australian Secret Intelligence Service \(ASIS\)*](#) was established on May 13 1952, as a collector of foreign intelligence, primarily in the Asia-Pacific region. ASIS's primary goal is to obtain and distribute secret intelligence about the capabilities, intentions and activities of individuals or organisations outside Australia, which may impact on Australia's interests and the well-being of its citizens.

Its functions, as set out in the Intelligence Services Act 2001, are to:

- collect foreign intelligence, not available by other means, which may impact on Australia's interests;
 - distribute that intelligence to the Government, including key policy departments and agencies;
 - undertake counter-intelligence activities which protect Australia's interests and initiatives; and,
 - engage other intelligence and security services overseas in Australia's national interests.
 - The Australian Government expects ASIS to be adaptable and to respond effectively to the growing number and diverse nature of threats facing Australia and its citizens. The agency's work can involve collecting intelligence relating to national defence, international relations and economic issues. ASIS also contributes to Australia's coordinated national efforts against terrorism, proliferation of weapons of mass destruction, and trans-national issues such as people smuggling.
-

Office of National Assessments (ONA)

ONA assesses and analyses international political, strategic and economic developments for the Prime Minister and senior ministers in the National Security Committee of Cabinet. It was established by the Office of National Assessments Act 1977 as an independent body directly accountable to the Prime Minister. The Director-General of ONA is an independent statutory officer who is not subject to external direction on the content of ONA assessments.

ONA bases its assessments on information available to the Australian Government from all sources, both inside and outside the Government. It draws on information provided by other intelligence agencies, as well as diplomatic reporting, information and reporting from other government agencies, and material available from open sources such as news media and publications. ONA also consults broadly within government and with experts in other sectors.

In April 2005, the Open Source Branch (OSB) (now the Open Source Centre) was incorporated into ONA. The role of the Open Source Centre is to collect and validate information from open sources and produce reports based on this information for ONA and other Australian and allied government agencies.

The ONA Act also charges ONA with responsibility for coordinating Australia's foreign intelligence activities and issues of common interest among Australia's foreign intelligence agencies. ONA is also responsible for evaluating the effectiveness of Australia's foreign intelligence effort and the adequacy of its resourcing.

Defence Intelligence and Security Group (DISG)

The I&S Group is headed by a Deputy Secretary who reports to the Secretary of Defence and Chief of the Defence Force. The other agencies that make up the group are the:

- Defence Signals Directorate
- Defence Imagery and Geospatial Organisation
- Defence Security Authority

The ***Defence Signals Directorate's (DSD)*** information security function is outlined in the Intelligence Services Act 2001. As the Commonwealth authority on the security of information, DSD provides advice and other assistance to federal and state authorities on matters relating to the security and integrity of information. It is responsible for signals intelligence (SIGINT) and information security (INFOSEC).

Based in Canberra, at the Defence Headquarters at Russell Offices it operates monitoring facilities at Kojarena, Western Australia and at Shoal Bay, Northern Territory, which are believed to be part of the ECHELON system. It may also play a role in Pine Gap.

The ***Defence Imagery and Geospatial Organisation (DIGO)*** was established under a Cabinet Directive on 8 November 2000 by amalgamating the Australian Imagery Organisation, the Directorate of Strategic Military Geographic Information and the Defence Topographic Agency. On 2 December 2005 DIGO came under the provisions of the amended Intelligence Services Act 2001 (ISA). DIGO operates from two sites: one in Canberra, Australian Capital Territory, and the other in Bendigo, Victoria.

DIGO is the lead geospatial and imagery intelligence organisation in the Department of Defence. Its functions, as prescribed in the Intelligence Services Act 2001 (ISA), are:

- To obtain geospatial and imagery intelligence about the capabilities, intentions or activities of people or organisations outside Australia to meet the requirements of the Australian Government.
- To obtain geospatial and imagery intelligence for the purposes of meeting the operational, targeting, training and exercise requirements of the Australian Defence Force.
- To obtain geospatial and imagery intelligence for the purposes of supporting Commonwealth and State authorities in carrying out national security functions.
- To communicate in accordance with government requirements the intelligence obtained under the above functions.
- To provide Commonwealth and State authorities and bodies approved by the Minister for Defence imagery and other geospatial products that are not intelligence, technical assistance and support for carrying out their emergency response functions.
- To co-operate with and assist bodies referred to in section 13A in accordance with that section.
- To provide assistance to the Defence Force in support of military operations and to cooperate with the Defence Force on intelligence matters.

The ***Defence Security Authority (DSA)*** helps Defence Groups and the Services with protective security matters. The DSA's responsibilities include:

- assisting the CSO in leading the Defence Security Community;
- being the Defence point of contact on protective security matters;

- developing and promulgating security policy that complies with Australian Government protective security policy and meets Defence's needs;
 - monitoring and reporting on security compliance, performance and risks;
 - investigating serious and complex security incidents;
 - granting security clearances for Defence and Defence Industry Security Program members, and conducting clearance re-validations and re-evaluations;
 - assisting Groups and the Services with security policy implementation; and
 - managing the Defence Industry Security Program.
-

The **Defence Intelligence Organisation (DIO)** was established in 1990 as the Australian Government's source of expertise for matters relating to trends in global security, weapons of mass destruction, foreign military capabilities, defence economics and transnational terrorism.

DIO's mission is to provide the best intelligence possible to the intelligence consumer – whether Defence Minister, government policymaker or battlefield commander. The intelligence and advice that DIO provides supports the planning and conduct of ADF operations, defence capability and policy development, and wider government planning and decision making on Defence and national security issues.

DIO's work is enhanced through information sharing with the National Intelligence Community and the national intelligence and security agencies of Australia's Allies.

The **6th Brigade (6 Bde)** is a specialist Australian Army brigade. The brigade was re-raised on 1st March 2010 to oversee the Army's command support and intelligence, surveillance, target acquisition and reconnaissance (CS & ISTAR) units.

The 6th Brigade currently consists of the following units:

- 16th Air Land Regiment
- 20th Surveillance and Target Acquisition Regiment
- 6th Engineer Support Regiment
- 19th Chief Engineer Works
- 7th Signal Regiment
- 51st Battalion, Far North Queensland Regiment
- North West Mobile Force (NORFORCE)
- Pilbara Regiment
- 1st Intelligence Battalion
- 2/30th Training Group

1st Intelligence Battalion (1 Int Bn) is an Army unit of the Australian Army Intelligence Corps. 1st Intelligence Battalion is a part of the 6th Brigade (CS&ISTAR).

The role of the 1st Intelligence Battalion is to provide deployable specialist intelligence operations support to the ADF and security intelligence support to Army.

The role of the **Australian Intelligence Corps** is to provide the intelligence support required by commanders and staffs at all levels of command. No successful operation can be planned or conducted until sufficient information has been obtained on an adversary and the prevailing conditions have been analysed by intelligence staff.

There are three levels of intelligence: strategic, operational and tactical. Strategic intelligence is concerned with military and economic capabilities of foreign nations. Operational intelligence is concerned with the potential military operations in a theatre level conflict whilst tactical intelligence is concerned with producing intelligence on an adversaries' organisation, capabilities, tactics and intentions and the geography of the battlefield.

Members of the Australian Intelligence Corps are employed in a number of Corps speciality areas including: Combat Intelligence, Counter Intelligence, Imagery Analysis and Linguists. Combat Intelligence is primarily concerned with the production of tactical intelligence. Counter-intelligence is primarily concerned with the protection of Army's personnel, information and equipment from foreign interference and from espionage, sabotage and subversion. Imagery analysis is concerned with the identification, interpretation and analysis of data collected from photographs and other sensors. Linguists are employed to translate foreign language documents and provide interpreter services to deployed forces.

The **Australian Federal Police (AFP)** is the federal police agency of the Commonwealth of Australia. Although the AFP was created by the amalgamation in 1979 of three Commonwealth law enforcement agencies, it traces its history from Commonwealth law enforcement agencies dating back to the federation of Australia's six precursor British self-governing colonies in 1901.

The role of the AFP is to enforce Commonwealth of Australia criminal law and to protect Commonwealth and national interests from crime in Australia and overseas. The AFP is Australia's international law enforcement and policing representative, and the Government's chief source of advice on policing issues. The AFP works closely with a range of other law enforcement bodies at state, territory, Commonwealth and international levels, enhancing safety and providing a secure regional and global environment.

The AFP works with representatives of the Australian Government and States and Territories on the **National Counter-Terrorism Committee (NCTC)**, which was established by the Inter-Governmental Agreement signed by the Prime Minister, Premiers and Chief Ministers on 24 October 2002. The role of the NCTC is to contribute to the security of the Australian community through coordination of a nationwide cooperative framework to counter terrorism and its consequences. The committee meets twice a year and is comprised of representatives from the Australian, State and Territory governments.

Australian Crime Commission (ACC)

The ACC commenced operations on 1 January 2003. It has its origins in the April 2002 Leaders Summit which agreed that a new national framework was needed to meet the challenges of combating terrorism and multi-jurisdictional crime. The ACC replaced the National Crime Authority, the Australian Bureau of Criminal Intelligence and the Office of Strategic Crime Assessments to become Australia's national criminal intelligence and investigation agency. The ACC has offices in the ACT, NSW, NT, QLD, SA, VIC and WA.

To ensure the appropriate management and accountability of the ACC, it is governed by the:

- Minister for Home Affairs
- Inter-Governmental Committee on the ACC
- Parliamentary Joint Committee on the ACC
- ACC Board.

The ACC has three directorates:

- Intervention & Prevention
 - Fusion, Target Development & Performance
 - People, Business Support & Stakeholder Relations
-

Australian Customs and Border Protection Service manages the security and integrity of Australia's borders. It works closely with other government and international agencies, in particular the Australian Federal Police, the Australian Quarantine and Inspection Service, the Department of Immigration and Citizenship and the Department of Defence, to detect and deter unlawful movement of goods and people across the border.

The agency has its central office in Canberra. It has a fleet of ocean-going patrol vessels and contracts two aerial surveillance providers for civil maritime surveillance and response. Customs and Border Protection has permanent representation in Bangkok, Beijing, Brussels, Jakarta and Washington.

Protecting the Australian community through the interception of illegal drugs and firearms is a high priority and sophisticated techniques are used to target high-risk aircraft, vessels, cargo, postal items and travellers. This includes intelligence analysis, computer-based analysis, detector dogs and various other technologies.

Clients of Customs and Border Protection include the Australian community, the Government, industry, travellers and other government agencies.

SOURCES / RELATED WEBSITES / FURTHER INFORMATION

Wikipedia

CIA World Factbook

ASIS <http://www.asis.gov.au/>

ASIO <http://www.asio.gov.au/>

Dept of Defence <http://www.defence.gov.au/dio/>

IGIS <http://www.igis.gov.au>

ONA <http://www.ona.gov.au/>
 DSD <http://www.dsd.gov.au/>
 DIO <http://www.defence.gov.au/dio/>
 DIGO <http://www.defence.gov.au/digo/>
 DSA <http://www.defence.gov.au/dsa/index.html>
 Army <http://www.army.gov.au>
 Federal Police <http://www.afp.gov.au/>
 Australian Crime Commission <http://www.crimecommission.gov.au/>
 Customs & Border Protection <http://www.customs.gov.au>

LOGS SECTION

Freq.	date	UTC	enigma	day	remarks	mode	contributor
2136	9-12-2012	2135	M89	Sun	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512 and 3797	CW	(JPL)
2230	15-12-2012	1920	RMv	Sat	Russian Mil. Male operator: MUSKAT-04 ya ISKRA-32, priyom VGHEOU GROM-10 VARIANT-1	USB	(ASh)
2406.1	7-12-2012	2110	M01b	Fri	Msg	CW	(Q-HOL)
2486.1	6-12-2012	2055	M01b	Thu	ip	CW	(Q-HOL)
2632	15-12-2012	1341	RMv	Sat	Russian Mil. Female operator calling TSELINA-39	USB	(ASh)
2632	15-12-2012	1402	RMv	Sat	Russian Mil. ZHIKLER wkg TSELINA-39 and SERVIC-16	USB	(ASh)
2667	5-12-2012	1907	M32	Wed	Russian Mil. "1QXI de OWZE K. OWZE de 1QXI K R K. 2TOK de OWZE ZPV ZNP ZZQ ZJP ZZQ ZNR ZUT ZYY AR"	CW	(MPJ)
2680	19-12-2012	1955	M22	Wed	4XZ IDF/Israeli Navy Haifa "VVVV DE 4XZ"	CW	(LG2)
2692	9-12-2012	2108	M32	Sun	Russian Mil. c/s AFBA	CW	(BCI)
2706	16-12-2012	2107	M32	Sun	Russian Mil. TWN2 clg L7G4	CW	(BCI)
2735	29-12-2012	1716	RMv	Sat	Russian Mil. Stations ZASADA-27, AKTSENT-47, GAVANA-43 and others	USB	(ASh)
2800	22-12-2012	1831	RMv	Sat	Test count "...1294 35687 konec peredachi (end of transmission)"	USB	(ASh)
2811	21-12-2012	0701	M51	Fri	5L msg after = 28 D 21 08:01:44 1984 =	CW	(PPA)
2822	10-12-2012	1907	M32	Mon	2JM2: CIS mil. Duplex radio checks with W1LA and MZ8D	CW	(PPA)
2859	2-12-2012	2302	M22	Sun	4XZ IDF/Israeli Navy Haifa	CW	(LG2)
2860	7-12-2012	1943	M22	Fri	4XZ: Israeli navy Haifa "VVV DE 4XZ 4XZ"	CW	(PPA)
2880	18-12-2012	1932	RMv	Tue	Russian Mil. Female operator DELTA-80 clg RAMA-94	USB	(ASh)
2880	30-12-2012	1957	RMv	Sun	Russian Mil. Net. Stations include RASKAT-01, NAPOR-05, DVORETS-26	USB/LSB	(ASh)
2945	30-11-2012	1700	RMv		Test count 1234567890 priyom	USB	(BCI)
3159	4-12-2012	1205	M32a	Tue	OUYG: Russian Mil. Calls K9BR 7WTN without apparent success. K9BR de OUYG QLK R K. 7WTN de OUYG K"	CW	(WP3)
3160.7	17-12-2012	1906	M32	Mon	Russian Mil. RGT77 RGT77 456 = ROPTTI ????? KMTÖM GAGHP LZJYW BRGVB RFXMJ ACIÄI NJAKH OJGEF EZEUE CHÖUPF SYOCh CUPCEB	CW	(TR2)
3164	5-12-2012	1808	M32	Wed	Russian Mil. "GPFJ de JU9C ZUO ZAM ZKN QYT6 K"	CW	(MPJ)
3164	5-12-2012	1810	M51	Wed	NR 54 D 05 19:14:59 1984 BT PZNB Y UTQVE ...	CW	(MPJ)
3164	5-12-2012	2123	M51	Wed	FAV22: Fra-CSTEL tfc 5fg ...jajmk rpmus nxhdd adyfa btoao eiqqd myhfi dstrz	CW	(SW2)
3164	21-12-2012	0656	M51	Fri	5L msg after = 27 D 21 07:55:33 1984 =	CW	(PPA)
3164	21-12-2012	2011	M51	Fri	ip, 5fG "...16:37 1984 bt..."	CW	(MPJ)
3169	12-12-2012	2240	M89	Wed	In tfc: RPT 09W. R R 45W. R CK QSL 06.9 K (see N&O 183)	CW	(JPL)
3175	21-12-2012	0645	M42	Fri	Russian point to point. Crypto. QSX 3300 kHz	RUS-ARQ 100/500	(PPA)
3192	17-12-2012	1900	S06	Mon	349 0	AM	(HFD)
3192	20-12-2012	1900	S06	Thu	349 0	AM	(HFD)
3192	20-12-2012	1903	S06	Thu	349 349 349 00000	AM	(Q-HOL)
3192	27-12-2012	1900	S06	Thu	349 349 349 00000	USB	(Q-HOL)
3196	14-12-2012	2005	M01b	Fri	866 (R) 313 313 31 31 = = msg = = 313 313 31 31 000	CW	(Q-HOL)
3202	24-12-2012	1900	S06	Mon	349 349 349 00000	AM	(ASh/Q)
3207	19-12-2012	2056	M32	Wed	Russian Mil. KIZD clg ZHSK	CW	(BCI)
3212	1-12-2012	1930	S06	Sat	843 0	AM	(HFD)

Freq.	date	UTC	enigma	day	remarks	mode	contributor
3212	15-12-2012	1930	S06	Sat	843 0	AM	(HFD)
3212	22-12-2012	1930	S06	Sat	843 0	AM	(HFD)
3217	20-12-2012	2056	M32	Thu	Russian Mil. c/s UDYE	CW	(BCI)
3220	15-12-2012	1933	M32	Sat	TTOO DE XAIA QTC K	CW	(TR2)
3220	17-12-2012	1900	M32	Mon	Russian Mil. VVV BPTA DE XAIA K. TTOO DE XAIA K	CW	(TR2)
3237	13-7-2012	0000	M42		R11-22: Russian Gov.	J7B	
3237	14-7-2012	0000	M42		R11-22: Russian Gov.	J7B	
3237	28-12-2012	2119	M32a	Fri	Russian Navy ip, "...= ar rmp k... hl80 de rmp k kmpo kas5 k..."	CW	(Q-HOL)
3261	6-12-2012	2058	M32	Thu	Russian Mil. KMH2 wkg CNYM, GPGY, OIRO, 6H1T, TE6R	CW	(BCI)
3282	17-12-2012	2135	M89	Mon	In chat: R ASNW BT .. R K	CW	(JPL)
3289	12-12-2012	2254	M89	Wed	In chat: HDJ. K. DE R9NF K (see N&O 183)	CW	(JPL)
3292	4-12-2012	1417	M89	Tue	In tfc NUA4 TD56 U75D UTNT 44N5...	CW	(JPL)
3292	4-12-2012	1437	M89	Tue	In tfc MSG NR ... CK 5000 BT	CW	(JPL)
3297	29-11-2012	1907	M89	Thu	V GKVZ (x3) DE Q7NW (x2)	CW	(JPL)
3297	29-11-2012	2126	M89	Thu	V GKVZ (x3) DE Q7NW (x2)	CW	(JPL)
3297	3-12-2012	1117	M89	Mon	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	3-12-2012	1512	M89	Mon	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	3-12-2012	1807	M89	Mon	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	3-12-2012	2117	M89	Mon	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	3-12-2012	2132	M89	Mon	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	4-12-2012	1341	M89	Tue	V GKVZ (x3) DE Q7NW (x2)	CW	(JPL)
3297	4-12-2012	1416	M89	Tue	V GKVZ (x3) DE Q7NW (x2)	CW	(JPL)
3297	5-12-2012	2133	M89	Wed	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	6-12-2012	1747	M89	Thu	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	6-12-2012	2102	M89	Thu	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	7-12-2012	1607	M89	Fri	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	7-12-2012	1834	M89	Fri	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	8-12-2012	1611	M89	Sat	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	8-12-2012	1905	M89	Sat	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	9-12-2012	1803	M89	Sun	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	9-12-2012	2133	M89	Sun	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	10-12-2012	1555	M89	Mon	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	10-12-2012	1857	M89	Mon	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	10-12-2012	1908	M89	Mon	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	11-12-2012	1407	M89	Tue	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	11-12-2012	1522	M89	Tue	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	11-12-2012	2238	M89	Tue	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	12-12-2012	1205	M89	Wed	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	12-12-2012	1714	M89	Wed	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	12-12-2012	2253	M89	Wed	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	13-12-2012	1533	M89	Thu	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	13-12-2012	2058	M89	Thu	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	13-12-2012	2337	M89	Thu	V ZKVZ (x3) DE Q7NW (x2) (Cont'd) Note: GKVZ is being sent as ZKVZ - Equipment problem?	CW	(JPL)
3297	16-12-2012	1332	M89	Sun	V ZKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	16-12-2012	2214	M89	Sun	V ZKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	17-12-2012	1556	M89	Mon	V ZKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	17-12-2012	2134	M89	Mon	V ZKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	18-12-2012	1356	M89	Tue	V GKVZ (x3) DE Q7NW (x2) UGT COMM msg sent 1358z	CW	(JPL)
3297	18-12-2012	1356	M89	Tue	C.63RAKS Z23.TO8618 UGT T.O .SS H BT BT	CW	(JPL)
3297	18-12-2012	1450	M89	Tue	V GKVZ GKVZ GKVZ DE Q7NW Q7NW	CW	
3297	18-12-2012	1656	M89	Tue	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	21-12-2012	2018	M89	Fri	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	22-12-2012	1415	M89	Sat	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	22-12-2012	1935	M89	Sat	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
3297	23-12-2012	1753	M89	Sun	V GKVZ (x3) DE Q7NW (x2)	CW	(JPL)

Freq.	date	UTC	enigma	day	remarks	mode	contributor
3300	21-12-2012	0638	M42	Fri	Russian point to point Riga area. Crypto. QSX 3175 kHz	RUS-ARQ 100/500	(PPA)
3322	4-12-2012	2255	M21	Tue	PVO =990257??0?????	CW	(MPJ)
3322	24-12-2012	0023	M21	Mon	Russian Air Defence =990423??0?????	CW	(LG2)
3335	12-12-2012	2218	MX	Wed	Beacon "V"	CW	(JPL)
3370	21-12-2012	2137	M32a	Fri	Russian Navy. VVV RMP RMP RMP DE RFK99 RFK99 QSA K RMP DE RFK99 QYT4 OK K	CW	(BCI)
3395.5	5-12-2012	1928	M32	Wed	RMZY: Russian navy ship "RCV DE RMZY"	CW	(PPA)
3395.5	5-12-2012	1930	M32	Wed	RIR96: Russian navy ship "RCV DE RIR96 QYT4"	CW	(PPA)
3395.5	8-12-2012	1630	M32a	Sat	RCV: Russian Navy Sevastopol. rfh70 de rcv	CW	(WP3)
3395.5	8-12-2012	1630	M32a	Sat	RFH70: Russian Navy. rcv de rfh70 qsa? k	CW	(WP3)
3395.5	8-12-2012	1645	M32a	Sat	RFH71: Russian Navy. rcv de rfh71 qsa? k	CW	(WP3)
3395.5	8-12-2012	1740	M32a	Sat	RCJG: Russian Navy Ship Ivan Bubnov. rcv de rcjg 76 3 8 2135 566 = 05100 82115 08002 = + rcjg k	CW	(WP3)
3395.5	8-12-2012	1825	M32a	Sat	RMZY: Russian Navy. rcv de rmyz 576 3 8 2217 576 = 50660 321__ 08002 = + rmyz k	CW	(WP3)
3395.5	17-12-2012	1815	M32a	Mon	RCJG: Russian Navy Ship Ivan Bubnov. "qtc to rcv 159 18 17 2200 159 = sml for rjh45 rje73 = 17181 99359 10146 41998 02811 10150 40150 54000 70200 80000 22212 00170 20203 88000 17014 = + rcjg k"	CW	(WP3)
3395.5	23-12-2012	1800	M32a	Sun	Russian Navy. rcv de ris94 711 18 23 2200 711 = smlfor rje73 rjh45 = 23181 99445 10358 41597 ...22262 ...23014 = + ris94	CW	(WP3)
3399	4-12-2012	2103	M32	Tue	J9F2: Russian Mil. Sends msg to unid: "J9F2 906 34 5 0055 906 = ZAV 722 = 73441 29513 ... 97639 05030 727 K". Nothing further.	CW	(MPJ)
3593.5	18-12-2012	1415	MX	Tue	Beacon "K"	CW	(JPL-Sib)
3593.7	4-12-2012	2058	MX	Tue	Beacon "D" Odessa/Sevastopol	CW	(MPJ)
3593.7	17-12-2012	2256	MX	Mon	Beacon "D" Odessa/Sevastopol	CW	(MPJ)
3593.8	4-12-2012	2059	MX	Tue	Beacon "P" Kaliningrad	CW	(MPJ)
3593.8	17-12-2012	2256	MX	Mon	Beacon "P" Kaliningrad	CW	(MPJ)
3593.9	4-12-2012	2100	MX	Tue	Beacon "S" Severomorsk	CW	(MPJ)
3593.9	17-12-2012	2256	MX	Mon	Beacon "S" Severomorsk	CW	(MPJ)
3594	4-12-2012	2101	MX	Tue	Beacon "C" Moscow	CW	(MPJ)
3594	17-12-2012	2256	MX	Mon	Beacon "C" Moscow	CW	(MPJ)
3599	10-12-2012	1612	M89	Mon	In chat: NR 80/. 12128.2.100000 RMKS 8292 TO 8236 8231 K	CW	(JPL)
3642	29-11-2012	1916	M89	Thu	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
3642	3-12-2012	1635	M89	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
3642	3-12-2012	1656	M89	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5230	CW	(JPL)
3642	4-12-2012	1505	M89	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5230	CW	(JPL)
3642	5-12-2012	2135	M89	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
3642	5-12-2012	2257	M89	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5230	CW	(JPL)
3642	6-12-2012	1744	M89	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5230	CW	(JPL)
3642	6-12-2012	2100	M89	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5230	CW	(JPL)
3642	7-12-2012	1749	M89	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5230	CW	(JPL)
3642	7-12-2012	1801	M89	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
3642	7-12-2012	2210	M89	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5230	CW	(JPL)
3642	7-12-2012	2309	M89	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5230	CW	(JPL)
3642	8-12-2012	0059	M89	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5230	CW	(JPL)
3642	8-12-2012	1150	M89	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
3642	8-12-2012	1555	M89	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
3642	8-12-2012	1909	M89	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
3642	9-12-2012	1748	M89	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5230	CW	(JPL)
3642	9-12-2012	2138	M89	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5230	CW	(JPL)
3642	10-12-2012	0030	M89	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5230	CW	(JPL)
3642	10-12-2012	1559	M89	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
3642	10-12-2012	2109	M89	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5230	CW	(JPL)
3642	11-12-2012	1527	M89	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)

Freq.	date	UTC	enigma	day	remarks	mode	contributor
3642	11-12-2012	1827	M89	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
3642	11-12-2012	2233	M89	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
3642	12-12-2012	0039	M89	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
3642	12-12-2012	1703	M89	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
3642	12-12-2012	2228	M89	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
3642	13-12-2012	1552	M89	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
3642	13-12-2012	1900	M89	Thu	V DKG6 DKG6 DKG6 DE 3A7D 3A7D	CW	(PPA)
3642	13-12-2012	2032	M89	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
3642	13-12-2012	2334	M89	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
3642	17-12-2012	1251	M89	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5230	CW	(JPL)
3642	17-12-2012	1604	M89	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5230	CW	(JPL)
3642	17-12-2012	2102	M89	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5230	CW	(JPL)
3642	18-12-2012	2244	M89	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5230	CW	(JPL)
3642	21-12-2012	1950	M89	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5230	CW	(JPL)
3642	21-12-2012	2143	M89		DKG6 (3x) de 3A7D (2x) V	CW	(FYM)
3642	22-12-2012	1559	M89	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5230	CW	(JPL)
3642	22-12-2012	1933	M89	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5230	CW	(JPL)
3642	23-12-2012	0129	M89	Sun	In tfc: 100../206/2257 AR QSL ? HR .. NR 17 K followed by V DKG6 (x3) DE 3A7D (x2) //5230	CW	(JPL)
3642	23-12-2012	1322	M89	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
3642	23-12-2012	1759	M89	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
3645	11-12-2012	1800	S06	Tue	617 0	AM	(HFD)
3658	13-12-2012	1847	MX	Thu	Beacon "V" Khiva	CW	(PPA)
3658	13-12-2012	2340	MX	Thu	Beacon "V"	CW	(JPL)
3679	13-12-2012	2049	M89	Thu	In tfc: AAT3 D7A6 4.TT TD53 3DDN (Cont/Ed)	CW	(JPL)
3704	13-12-2012	1111	M89	Thu	In tfc: 34AD NT37 U465 T... (Cont/Ed û handsent)	CW	(JPL)
3724	7-12-2012	1600	M89	Fri	V WITN (x3) DE GNXG (x2) Note: New frequency for this station!	CW	(JPL)
3724	7-12-2012	1759	M89	Fri	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
3724	7-12-2012	1832	M89	Fri	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
3724	9-12-2012	1805	M89	Sun	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
3724	10-12-2012	1550	M89	Mon	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
3724	10-12-2012	1905	M89	Mon	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
3724	11-12-2012	1525	M89	Tue	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
3724	11-12-2012	1830	M89	Tue	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
3724	12-12-2012	1107	M89	Wed	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
3724	12-12-2012	1706	M89	Wed	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
3724	13-12-2012	2044	M89	Thu	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	(JPL)
3724	21-12-2012	2013	M89	Fri	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	(JPL)
3724	23-12-2012	1317	M89	Sun	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
3724	23-12-2012	1756	M89	Sun	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
3738	13-12-2012	1126	M89	Thu	In tfc: 3D6A ..4N 5T 6D.. 5.N. (Cont/Ed)	CW	(JPL)
3754	3-12-2012	1700	G06	Mon	154 154 154 00000	USB	(MPJ)
3755	12-12-2012	1208	M89	Wed	In tfc: A7NT AR K (1210z). BT 3AT. AR K (1211z)	CW	(JPL)
3756	8-12-2012	1600	S30		Problems with the (transmitter of the) Pip, until at least 1635.	USB	(FYM)
3756	14-12-2012	2007	S30	Fri	8S1Shch 91 056 LENS MAN 41 67 77 18 Priyom	USB	(Avare)
3756	31-12-2012	1332	S30	Mon	8S1Shch 47 159 KONTROL' 38 49 56 56 Priyom	USB	(Avare)
3756	31-12-2012	1350	S30	Mon	8S1Shch 59 258 BARAKChan 15 48 36 92	USB	(Avare)
3774	17-12-2012	2147	M89	Mon	In chat: R K. 3UKF DE 4W3W K	CW	(JPL)
3775	1-12-2012	2118	M32	Sat	HGD1: CIS military duplex radio check with 9PTL	CW	(PPA)
3775	17-12-2012	2300	M32	Mon	Russian Mil NCS. Ends 53-group message to unid: SDFSP AZKDW RPT AL QLN K (repeat back online). Nothing fur- ther. (17Dec12) (MPJ)	CW	(MPJ)
3776	5-12-2012	2107	M89	Wed	In tfc NR 14 CK 91 67 1206 E511 RMKS 5.210 TO 54.. 5071 5340 BT //3797//3776//4512 kHz	CW	(JPL)
3776	7-12-2012	1957	M89	Fri	In tfc 4A4A 46T. 7U.4 DT5T ... (Cont/Ed) //3797 AND 4512 in R/S	CW	(JPL)

Freq.	date	UTC	enigma	day	remarks	mode	contributor
3776	8-12-2012	1217	M89	Sat	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512 and 3797	CW	(JPL)
3776	8-12-2012	1558	M89	Sat	In tfc: 3763 A.67 4NNA AAN4 .66U ..N6 64UU U5T4 5TAA (Cont'd) V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
3776	8-12-2012	1902	M89	Sat	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512 and 3797	CW	(JPL)
3776	9-12-2012	1758	M89	Sun	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512 and 3797	CW	(JPL)
3776	11-12-2012	2218	M89	Tue	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512 and 3797	CW	(JPL)
3776	12-12-2012	1655	M89	Wed	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
3776	13-12-2012	1559	M89	Thu	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512 and 3797	CW	(JPL)
3776	13-12-2012	2041	M89	Thu	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512 and 3797	CW	(JPL)
3776	17-12-2012	1554	M89	Mon	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797 and 4512	CW	(JPL)
3776	17-12-2012	2125	M89	Mon	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797 and 4512	CW	(JPL)
3776	22-12-2012	1408	M89	Sat	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512 and 3797	CW	(JPL)
3776	22-12-2012	1548	M89	Sat	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512 and 3797	CW	(JPL)
3776	22-12-2012	1937	M89	Sat	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512 and 3797	CW	(JPL)
3794	27-12-2012	0157	S32		(another?) 'Squeaky Wheel'	F2A	(FYM)
3794	27-12-2012	2343	S32		Squeaky wheel (rumours are that this is a 'spurious' ?)	F2A	(FYM)
3797	29-11-2012	1902	M89	Thu	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
3797	29-11-2012	2127	M89	Thu	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
3797	3-12-2012	1514	M89	Mon	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
3797	3-12-2012	1802	M89	Mon	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512 Note: DRV8 is also on 3776 - Harmonic?	CW	(JPL)
3797	3-12-2012	2114	M89	Mon	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512 Note: DRV8 is also on 3776 - Harmonic?	CW	(JPL)
3797	4-12-2012	0958	M89	Tue	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
3797	4-12-2012	1343	M89	Tue	(In tfc) V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
3797	4-12-2012	1414	M89	Tue	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
3797	5-12-2012	2107	M89	Wed	In tfc NR 14 CK 91 67 1206 E511 RMKS 5.210 TO 54.. 5071 5340 BT //3797//3776//4512 kHz	CW	(JPL)
3797	6-12-2012	1749	M89	Thu	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
3797	6-12-2012	2106	M89	Thu	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
3797	7-12-2012	1558	M89	Fri	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
3797	7-12-2012	1829	M89	Fri	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
3797	7-12-2012	2255	M89	Fri	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512 and 6773	CW	(JPL)
3797	7-12-2012	2315	M89	Fri	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512 and 6773 and 8040	CW	(JPL)
3797	8-12-2012	1131	M89	Sat	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
3797	8-12-2012	1217	M89	Sat	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512 and 3776	CW	(JPL)
3797	8-12-2012	1902	M89	Sat	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512 and 3776	CW	(JPL)
3797	9-12-2012	1758	M89	Sun	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512 and 3776	CW	(JPL)
3797	9-12-2012	2135	M89	Sun	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512 and 3776	CW	(JPL)
3797	10-12-2012	1553	M89	Mon	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
3797	10-12-2012	1910	M89	Mon	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
3797	11-12-2012	1410	M89	Tue	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
3797	11-12-2012	1531	M89	Tue	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
3797	11-12-2012	1833	M89	Tue	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
3797	11-12-2012	2218	M89	Tue	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512 and 3776	CW	(JPL)
3797	12-12-2012	1158	M89	Wed	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
3797	12-12-2012	1655	M89	Wed	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
3797	12-12-2012	2314	M89	Wed	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512 and 6773 and 8040	CW	(JPL)
3797	13-12-2012	1009	M89	Thu	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
3797	13-12-2012	1559	M89	Thu	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512 and 3776	CW	(JPL)
3797	13-12-2012	2041	M89	Thu	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512 and 3776	CW	(JPL)
3797	17-12-2012	1554	M89	Mon	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512 and 3776	CW	(JPL)
3797	17-12-2012	2125	M89	Mon	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512 and 3776	CW	(JPL)
3797	18-12-2012	1408	M89	Tue	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
3797	18-12-2012	1639	M89	Tue	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
3797	18-12-2012	2030	M89	Tue	In tfc - UGT COMM msg. V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)

Freq.	date	UTC	enigma	day	remarks	mode	contributor
					//4512		
3797	21-12-2012	2015	M89	Fri	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
3797	22-12-2012	1408	M89	Sat	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512 and 3776	CW	(JPL)
3797	22-12-2012	1548	M89	Sat	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512 and 3776	CW	(JPL)
3797	22-12-2012	1937	M89	Sat	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512 and 3776	CW	(JPL)
3797	23-12-2012	1316	M89	Sun	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
3797	23-12-2012	1801	M89	Sun	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512 and 3816	CW	(JPL)
3802	9-12-2012	1821	M18		0127 0128 0129 0130 0131 etc.	H2A	(FYM)
3802	27-12-2012	2326	M18		weak, 0538 (rpt) (6hrs + 2 mins ahead of UTC ?)	CW	(FYM)
3803	4-12-2012	1639	M18	Tue	2341 2341 2341 ...	CW	(FN)
3803	4-12-2012	2248	M18	Tue	The Clock 0550 ... 0550...0551 etc UTC+7	CW	(MPJ)
3803	5-12-2012	2013	M18	Wed	Russian Mil. time marker 0315 0315 0316 ... (UTC+7) 2 minutes fast	CW	(AB)
3803	8-12-2012	1900	M18	Sat	Time strings	CW	(JPL-RUS)
3803	9-12-2012	1753	M18	Sun	0059 In Progress - sending Time strings	CW	(JPL)
3803	9-12-2012	1809	M18	Sun	0114 In Progress - sending Time strings	CW	(JPL)
3803	9-12-2012	2052	M18	Sun	0358 In Progress - sending Time strings	CW	(JPL)
3803	9-12-2012	2214	M18	Sun	Russian Mil. Marker 0428 0428 0429	CW	(AB-SIB)
3803	10-12-2012	0027	M18	Mon	0732	CW	(JPL)
3803	10-12-2012	0306	M18	Mon	0805	CW	(JPL)
3803	10-12-2012	1603	M18	Mon	2105	CW	(JPL)
3803	10-12-2012	1911	M18	Mon	0014	CW	(JPL)
3803	11-12-2012	1533	M18	Tue	0142	CW	(JPL)
3803	11-12-2012	1834	M18	Tue	0442	CW	(JPL)
3803	11-12-2012	2020	M18	Tue	0628	CW	(JPL)
3803	12-12-2012	0035	M18	Wed	1044	CW	(JPL)
3803	12-12-2012	1159	M18	Wed	0120	CW	(JPL)
3803	12-12-2012	1657	M18	Wed	0708	CW	(JPL)
3803	12-12-2012	2214	M18	Wed	1224	CW	(JPL)
3803	13-12-2012	1029	M18	Thu	0039	CW	(JPL)
3803	13-12-2012	1600	M18	Thu	1959	CW	(JPL)
3803	13-12-2012	2034	M18	Thu	0034	CW	(JPL)
3803	14-12-2012	1915	M18	Fri	0921 0921 0921 ...	CW	(FN)
3803	21-12-2012	1640	M18	Fri	2040 2040 2040	CW	(FN)
3803	21-12-2012	1948	M18	Fri	0049	CW	(JPL)
3803	21-12-2012	2235	M18		0235 0235 0235 etc, seems to be UTC+4	CW	(FYM)
3803.1	3-12-2012	1720	M18	Mon	The Clock 2117 ... 2123 ... (UTC+4)	CW	(MPJ)
3803.1	19-12-2012	2217	M18	Wed	0222 0222, 5 mins fast, changing at m+33	CW	(MPJ)
3803.1	27-12-2012	0131	M18		0733 0734 --- 0735 0736 (UTC + 6, but '2 mins ahead' ?)	CW	(FYM)
3812	11-12-2012	1837	M89	Tue	In chat: QSL A QSL Y K 24 O K	CW	(JPL)
3812	12-12-2012	2020	E06	Wed	154 154 154 000	USB	(Q-HOL)
3816	23-12-2012	1801	M89	Sun	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797 and 4512	CW	(JPL)
3826	1-12-2012	2111	M32	Sat	LOJE: CIS military duplex radio checks with a.o. IZAW and YJCL	CW	(PPA)
3826	7-12-2012	2004	M14	Fri	ip	CW	(Q-HOL)
3828	14-12-2012	2015	S32	Fri	Al'Fa45 96 770 HUNGARA 35 46 33 70 Vremya 0:15 (Time 0:15, Moscow time)	USB	(Avare)
3828	19-12-2012	1618	S32		Voice on wheel , too weak to copy unfortunately.	USB	(FYM)
3828	31-12-2012	1340	S32	Mon	Al'fa45 21 707 NAZNADA 35 27 88 73 Priyom	USB	(Avare)
3828	31-12-2012	1340	S32		weak Al'fa45 21 707 NAZNADA 35 27 88 73 Priyom	USB	(FYM)
3828	31-12-2012	1358	S32	Mon	Al'fa45 86 077 KUBANIT 61 54 98 23 Priyom	USB	(Avare)
3830	5-12-2012	2244	M89	Wed	In tfc 77N6 A.TN 7D. 53A3 666.	CW	(JPL)
3830	27-12-2012	0154	S32		Squeaky Wheel	F2A	(FYM)
3838	3-12-2012	1905	S06	Mon	349 0	AM	(HFD)
3838	13-12-2012	1905	S06	Thu	349 0	AM	(HFD)
3838	13-12-2012	1905	S06	Thu	349 349 349 00000	USB	(Q-HOL)
3850	12-12-2012	0016	M89	Wed	In tfc: D64D 3A3N 5T6D DA7D 3N.D AR QSL ?	CW	(JPL)

Freq.	date	UTC	enigma	day	remarks	mode	contributor
3854	13-12-2012	1138	M89	Thu	In tfc: NDU3 7.A6 .7N7 TTAU (Cont'd)	CW	(JPL)
3860	8-12-2012	0615	---	Sat	KTR4 at h15-h25 and h45-h55	CW	(AT)
3861	21-12-2012	0711	M32	Fri	NMK7: CIS military duplex net. 5FG message to MNNE after = 940 45 21 0909 940 = 72727	CW	(PPA)
3861	28-12-2012	0653	M32	Fri	NMK7: CIS military. Duplex net. 5FG message to MNNE	CW	(PPA)
3865	13-12-2012	1031	M89	Thu	In tfc: 7656 N6UN U73A .5N5 37NU (Cont'd)	CW	(JPL)
3870	19-12-2012	1907	RMv	Wed	Russian Mil. Female operator MALAGA-07 clg LIPA-02, PORT-24, PUNKT-80	USB	(ASh)
3870	26-12-2012	1959	UMv	Wed	Ukrainian Mil net	USB	(Tom/AB/Q)
3874	8-12-2012	1615	M89	Sat	In chat: VV 3RF. DE X7AT K	CW	(JPL)
4012	26-12-2012	2240	M12	Wed	350 1 261 97 82121	CW	(FN)
4060	15-12-2012	1513	RMv	Sat	Russian Mil. Female operators PLOVETS-52 wkg KONTUR-51 and ARBUZ-52	USB	(ASh)
4082	22-12-2012		RMv	Sat	Russian Mil. FAUNA-81	USB	(DL8AAM)
4153	16-12-2012	1945	XSL	Sun	Japanese Navy a.k.a. Slot Machine	QPSK 1500bd	(AB-HK)
4153	31-12-2012	0944	XSL	Mon	Japanese Navy a.k.a. Slot Machine	QPSK 1500bd	(AB-Sib)
4225	4-12-2012	1017	M89	Tue	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL)
4225	4-12-2012	1338	M89	Tue	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL)
4225	5-12-2012	2128	M89	Wed	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL)
4225	5-12-2012	2300	M89	Wed	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL)
4225	6-12-2012	1738	M89	Thu	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL)
4225	6-12-2012	2108	M89	Thu	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL)
4225	7-12-2012	1556	M89	Fri	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL)
4225	7-12-2012	1825	M89	Fri	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL)
4225	8-12-2012	1553	M89	Sat	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
4225	8-12-2012	1913	M89	Sat	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
4225	9-12-2012	1806	M89	Sun	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL)
4225	9-12-2012	2129	M89	Sun	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL)
4225	10-12-2012	1431	M89	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
4225	10-12-2012	1547	M89	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL)
4225	10-12-2012	1855	M89	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
4225	10-12-2012	1905	M89	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
4225	11-12-2012	1402	M89	Tue	In tfc: 30/G68/7024 AR VV UGT COMM BT 4591/2230/G68/7024 AR. V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
4225	11-12-2012	1825	M89	Tue	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
4225	11-12-2012	2029	M89	Tue	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
4225	12-12-2012	1700	M89	Wed	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
4225	13-12-2012	1441	M89	Thu	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
4225	13-12-2012	2046	M89	Thu	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
4225	17-12-2012	1552	M89	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
4225	17-12-2012	2123	M89	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
4225	18-12-2012	1352	M89	Tue	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
4225	18-12-2012	1643	M89	Tue	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
4225	18-12-2012	1745	M89	Tue	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
4231.5	16-12-2012	1945	XSL	Sun	Japanese Navy a.k.a. Slot Machine	QPSK 1500bd	(AB-HK)
4243	31-12-2012	0915	V26	Mon	Chinese YL, automated, but non-robotic. 3FGs	USB	(NC-J)
4244	8-12-2012	1114	M89	Sat	In chat: HOSM DE D8IZ* K.....	CW	(JPL)
4331	3-12-2012	2146	M22	Mon	4XZ Haifa, ip "...= = vvv de 4xz 4xz = =..."	CW	(Q-HOL)
4331	10-12-2012	2132	M22	Mon	4XZ IDF/Israeli Navy Haifa	CW	(LG2)
4331	30-12-2012	2311	M22	Sun	4XZ IDF/Israeli Navy Haifa ip 5LGs	CW	(LG2)
4385	3-12-2012	1824	M89	Mon	VV MQ6D VV 5YFJ K (Cont'd)	CW	(JPL)
4431	27-12-2012	2159	M22		VVV DE 4XZ 4XZ = =	CW	(FYM)
4440	4-12-2012	2013	M51	Tue	ip, 5fG, "...04 21:15:57 1984 bt..."	CW	(Q-HOL)
4440	4-12-2012	2238	M51	Tue	Nr 04 D 04 23:39:53 1984 BT XRYPU VKZIS ...	CW	(MPJ)
4440	26-12-2012	2211	M51	Wed	ip, 5fG "...bt nr 84 d 26 23:..."	CW	(Q-HOL)
4441	2-12-2012	2000	G11	Sun	YL, GG, 565/00	USB	(Q-HOL)
4441	7-12-2012	2000	G11	Fri	260/37 13005 83260 ... 04681 46382	USB	(MPJ/Q)

Freq.	date	UTC	enigma	day	remarks	mode	contributor
4441	9-12-2012	2000	G11	Sun	262/00	USB	(Q-HOL)
4441	14-12-2012	2000	G11	Fri	262/00	USB	(Q-HOL)
4441	16-12-2012	2000	G11	Sun	260/38	USB	(Q-HOL)
4441	23-12-2012	2000	G11	Sun	262/00	USB	(Q-HOL)
4441	28-12-2012	2000	G11	Fri	262/00, continued with call-up during "Ende" and then cut off.	USB	(saber)
4441	30-12-2012	2000	G11	Sun	YL, GG, 260/30 ACHTUNG! msg ACHTUNG! rpt msg [5f] ENDE	USB	(Q-HOL)
4444.4	5-12-2012	1954	M41	Wed	Russian Air Defence (PVO) 51799129100 5119912800. 029911. 9912.441768955 ...	CW	(MPJ)
4444.5	7-12-2012	2000	M41	Fri	QM2E: Russian Air Defence. Callsign sending frenzy then 009934441766400 517993491005171 ...	CW	(MPJ)
4457	3-12-2012	0530	M12	Mon	417 000	CW	(FN)
4457	10-12-2012	0530	M12	Mon	417 000	CW	(FN)
4457	10-12-2012	0530	M12	Mon	417 0	CW	(HFD)
4457	17-12-2012	0530	M12	Mon	417 000	CW	(FN)
4457	24-12-2012	0530	M12	Mon	417 000	CW	(FN)
4474	29-11-2012	1912	M89	Thu	V RXP7 (x3) DE CZT2 (x2)	CW	(JPL)
4474	3-12-2012	1912	M89	Mon	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	CW	(JPL)
4474	4-12-2012	1501	M89	Tue	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	CW	(JPL)
4474	5-12-2012	2126	M89	Wed	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	CW	(JPL)
4474	5-12-2012	2255	M89	Wed	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	CW	(JPL)
4474	6-12-2012	2126	M89	Thu	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	CW	(JPL)
4474	6-12-2012	2318	M89		weak, V RXP7 (3x) de CZT2 (2x)	CW	(FYM)
4474	7-12-2012	1745	M89	Fri	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	CW	(JPL)
4474	7-12-2012	2208	M89	Fri	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	CW	(JPL)
4474	8-12-2012	0056	M89	Sat	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	CW	(JPL)
4474	8-12-2012	1547	M89	Sat	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	CW	(JPL)
4474	9-12-2012	2050	M89	Sun	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	CW	(JPL)
4474	10-12-2012	2105	M89	Mon	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	CW	(JPL)
4474	11-12-2012	1722	M89	Tue	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	CW	(JPL)
4474	12-12-2012	1804	M89	Wed	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	CW	(JPL)
4474	12-12-2012	2225	M89	Wed	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	CW	(JPL)
4474	13-12-2012	1540	M89	Thu	V JF3M (x3) DE LG5P (x2) (Cont'd)	CW	(JPL)
4474	13-12-2012	1804	M89	Thu	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	CW	(JPL)
4474	13-12-2012	1858	M89	Thu	V RXP7 RXP7 RXP7 DE CZT2 CZT2	CW	(PPA)
4474	13-12-2012	2029	M89	Thu	V JF3M (x3) DE LG5P (x2) (Cont'd)	CW	(JPL)
4474	14-12-2012	2215	M89	Fri	V JF3M (x3) DE LG5P (x2) (Cont'd)	CW	(JPL)
4474	15-12-2012	1934	M89	Sat	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	CW	(JPL)
4474	16-12-2012	2221	M89	Sun	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	CW	(JPL)
4474	17-12-2012	1249	M89	Mon	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	CW	(JPL)
4474	17-12-2012	2100	M89	Mon	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	CW	(JPL)
4474	18-12-2012	1702	M89	Tue	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	CW	(JPL)
4474	18-12-2012	2242	M89	Tue	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	CW	(JPL)
4474	21-12-2012	2032	M89	Fri	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	CW	(JPL)
4474	21-12-2012	2044	M89		RXP7 (3x) de CZT2 (2x) V	CW	(FYM)
4474	22-12-2012	1628	M89	Sat	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	CW	(JPL)
4474	23-12-2012	0128	M89	Sun	V RXP7 (x3) DE CZT2 (x2)	CW	(JPL)
4474	27-12-2012	2153	M89		V RXP7 (3x) DE CZT2 (2x)	CW	(FYM)
4481	27-12-2012	1520	M21	Thu	=99?1942?98????	CW	(p3w9)
4482.8	10-12-2012	2002	M32	Mon	4DNZ K	CW	(TR2)
4483	15-12-2012	2002	M32	Sat	WCLT K	CW	(TR2)
4483	16-12-2012	2002	M32	Sun	Russian Mil. WCLT K	CW	(TR2)
4483	27-12-2012	2150	E07		(Always) low modulation depth: ?44 ?44 ?44 1 (? = 1, I believe)	AM	(FYM)
4483	27-12-2012	2150	E07	Thu	OM, EE, "744 744 744 1 (R)"	AM	(Q-HOL)
4490	4-12-2012	2000	M01	Tue	In progress ... 41056 22319 // 697 697 30 30 0 0 0	CW	(MPJ)
4490	4-12-2012	2008	M01	Tue	ip, 5FSG, ended with 4 t as "t t t t"	CW	(Q-HOL)

Freq.	date	UTC	enigma	day	remarks	mode	contributor
4490	6-12-2012	2000	M01	Thu	721 30 == 44749 44749 35386 46044 46044 (as sent) Speeds up while msg in progress, makes many mistakes ... 62985 62985 06349 06349 == 721 30 0 0 0.	CW	(MPJ)
4490	6-12-2012	2000	M01	Thu	197(R) 721 3t 721 3t == msg == 721 3t 721 3t 3t t t t	CW	(Q-HOL)
4490	11-12-2012	2000	M01	Tue	197-251 0=52234	CW	(HFD)
4490	18-12-2012	2009	---		simultaneously on 4491 kHz sending nrs fragment: 66392 66392 49502 49502 43219 43219	CW	(FYM)
4490	20-12-2012	2000	M01	Thu	5FSG, "107(R)[error?] 197 (R) 981 981 2t 2t == 69850 6 9850 19014 19014 1005t 1005t 99283 99283..."	CW	(Q-HOL)
4491	27-12-2012	2000	M01	Thu	"197 (R) 221 221 30 30 == msg 221 221 30 30 0 0 0"	CW	(Q-HOL)
4512	29-11-2012	1136	M89	Thu	V H2FL (x3) DE DRV8 (x2)	CW	(JPL)
4512	29-11-2012	1902	M89	Thu	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
4512	29-11-2012	2127	M89	Thu	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
4512	3-12-2012	1125	M89	Mon	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
4512	3-12-2012	1514	M89	Mon	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
4512	3-12-2012	1801	M89	Mon	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
4512	3-12-2012	2114	M89	Mon	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
4512	3-12-2012	2128	M89	Mon	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
4512	4-12-2012	0958	M89	Tue	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
4512	4-12-2012	1343	M89	Tue	(In tfc) V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
4512	4-12-2012	1414	M89	Tue	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
4512	5-12-2012	2107	M89	Wed	In tfc NR 14 CK 91 67 1206 E511 RMKS 5.210 TO 54.. 5071 5340 BT //3797//3776//4512 kHz	CW	(JPL)
4512	5-12-2012	2220	M12	Wed	350 000	CW	(FN)
4512	5-12-2012	2220	M12	Wed	350 350 350 000	CW	(Q-HOL)
4512	6-12-2012	1749	M89	Thu	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797 and 3776	CW	(JPL)
4512	6-12-2012	2106	M89	Thu	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797 and 3776	CW	(JPL)
4512	7-12-2012	1558	M89	Fri	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797 and 3776	CW	(JPL)
4512	7-12-2012	1829	M89	Fri	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
4512	7-12-2012	2255	M89	Fri	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797 and 6773	CW	(JPL)
4512	7-12-2012	2315	M89	Fri	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797 and 6773 and 8040	CW	(JPL)
4512	8-12-2012	1131	M89	Sat	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
4512	8-12-2012	1217	M89	Sat	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797 and 3776	CW	(JPL)
4512	8-12-2012	1902	M89	Sat	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797 and 3776	CW	(JPL)
4512	9-12-2012	1758	M89	Sun	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797 and 3776	CW	(JPL)
4512	9-12-2012	2135	M89	Sun	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797 and 3776	CW	(JPL)
4512	10-12-2012	1436	M89	Mon	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
4512	10-12-2012	1553	M89	Mon	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
4512	10-12-2012	1859	M89	Mon	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
4512	10-12-2012	1910	M89	Mon	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
4512	11-12-2012	1410	M89	Tue	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
4512	11-12-2012	1531	M89	Tue	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
4512	11-12-2012	1833	M89	Tue	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
4512	11-12-2012	2218	M89	Tue	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797 and 3776	CW	(JPL)
4512	12-12-2012	1158	M89	Wed	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
4512	12-12-2012	2220	M12	Wed	350 000	CW	(FN)
4512	12-12-2012	2220	M12	Wed	350 0	CW	(HFD)
4512	12-12-2012	2220	M12	Wed	350 350 350 000	CW	(Q-HOL)
4512	12-12-2012	2314	M89	Wed	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797 and 6773 and 8040	CW	(JPL)
4512	13-12-2012	1009	M89	Thu	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
4512	13-12-2012	1528	M89	Thu	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
4512	13-12-2012	1559	M89	Thu	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797 and 3776	CW	(JPL)
4512	13-12-2012	2041	M89	Thu	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797 and 3776	CW	(JPL)
4512	17-12-2012	1554	M89	Mon	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797 and 3776	CW	(JPL)
4512	17-12-2012	2125	M89	Mon	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797 and 3776	CW	(JPL)
4512	18-12-2012	2030	M89	Tue	In tfc - UGT COMM msg. V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)

Freq.	date	UTC	enigma	day	remarks	mode	contributor
					//3797		
4512	19-12-2012	2220	M12	Wed	350 000	CW	(FN)
4512	22-12-2012	1408	M89	Sat	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797 and 3776	CW	(JPL)
4512	22-12-2012	1548	M89	Sat	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797 and 3776	CW	(JPL)
4512	22-12-2012	1937	M89	Sat	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797 and 3776	CW	(JPL)
4512	23-12-2012	1801	M89	Sun	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797 and 3816	CW	(JPL)
4512	26-12-2012	2220	M12	Wed	350 1 261 97 82121	CW	(FN)
4512	26-12-2012	2220	M12	Wed	"350 350 350 1 (R) 261 97 261 97 msg 000 000"	CW	(Q-HOL)
4519	12-12-2012	0046	M89	Wed	In chat: MSG 7G K. AS AS//B (Both stations on same freq). See NO 183	CW	(JPL)
4519	27-12-2012	1830	G06	Thu	271 199 199 271 271 271..199 15 83015 73922 53729 01635 72986 10385 28395 10582 19365 94732 10284 27193 46284 29482 10375 199 15 00000	AM	(Avare/Q)
4525.8	10-12-2012	2002	M32	Mon	4DNZ DE PABJ R K	CW	(TR2)
4536	7-12-2012	2000	E11	Fri	576/00	USB	(Q-HOL)
4536	14-12-2012	2001	E11	Fri	576/00	USB	(Q-HOL)
4557.7	16-12-2012	2241	MX	Sun	Russian Navy Beacon D Odessa/Sevastapol	CW	(LG2)
4557.7	21-12-2012	2216	MXD		D, Sebastopol	CW	(FYM)
4557.7	28-12-2012	0003	MXD		D beacon, weak	CW	(FYM)
4557.8	3-12-2012	2143	MX	Mon	Beacon "P"	CW	(Q-HOL)
4557.8	16-12-2012	2241	MX	Sun	Russian Navy Beacon P Kaliningrad	CW	(LG2)
4557.8	21-12-2012	2216	MXP		P, Kaliningrad	CW	(FYM)
4557.8	28-12-2012	0003	MXP		P beacon , very strong	CW	(FYM)
4557.9	3-12-2012	2143	MX	Mon	Beacon "S"	CW	(Q-HOL)
4557.9	28-12-2012	0003	MXS		S beacon, moderate	CW	(FYM)
4564	5-12-2012	2140	E07a	Wed	815 815 815 1 33633(R) 101 53 101 53 msg 000 000	USB	(Q-HOL)
4564	5-12-2012	2140	E07a	Wed	815 1 33633 101 53 51966 91365 84040 ... 93252 22581 96870 000 000	USB	(Spec)
4564	19-12-2012	2140	E07a	Wed	OM, EE, "815 815 815 1 66269 (R) 564 71 564 71 46573 14314 81099...39298 18440 77787 000 000"	USB	(Q-HOL)
4564	19-12-2012	2140	E07a	Wed	815 1 66269 564 71 46573 14314 81099 ... 39298 18440 77787 000 000	USB	(Spec)
4564	26-12-2012	2140	E07a	Wed	OM, EE, "815 815 815 1 66269 (R) 564 71 564 71 msg 000 000" 0"	USB	(Q-HOL)
4580	12-12-2012	1230	S06s	Wed	967-430 5=50128	USB	(HFD)
4580	19-12-2012	1230	S06s	Wed	967-214 5=24151	USB	(HFD)
4584	1-12-2012	2241	M22	Sat	4XZ IDF/Israeli Navy Haifa "VVV VVV DE 4XZ"	CW	(LG2)
4585	21-12-2012	0751	M42	Fri	Russian point to point. Crypto	RUS-ARQ 100/500	(PPA)
4590	29-11-2012	1131	M89	Thu	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	(JPL)
4590	29-11-2012	1859	M89	Thu	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	(JPL)
4590	29-11-2012	2124	M89	Thu	V WITN (x3) DE GNXG (x2)	CW	(JPL)
4590	4-12-2012	1339	M89	Tue	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	(JPL)
4590	4-12-2012	1411	M89	Tue	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
4590	5-12-2012	2131	M89	Wed	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
4590	5-12-2012	2302	M89	Wed	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
4590	8-12-2012	1129	M89	Sat	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
4590	8-12-2012	1916	M89	Sat	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	(JPL)
4590	13-12-2012	1443	M89	Thu	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
4590	13-12-2012	1531	M89	Thu	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
4590	13-12-2012	1611	M89	Thu	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	(JPL)
4590	13-12-2012	2044	M89	Thu	V WITN (x3) DE GNXG (x2) (Cont'd) //3724	CW	(JPL)
4590	17-12-2012	1610	M89	Mon	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	(JPL)
4590	17-12-2012	2128	M89	Mon	V WITN (x3) DE GNXG (x2) (Cont'd) //7607	CW	(JPL)
4590	18-12-2012	1411	M89	Tue	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
4590	18-12-2012	1647	M89	Tue	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
4590	18-12-2012	1747	M89	Tue	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
4590	18-12-2012	2255	M89	Tue	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
4590	22-12-2012	1411	M89	Sat	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)

Freq.	date	UTC	enigma	day	remarks	mode	contributor
4590	22-12-2012	1555	M89	Sat	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
4590	22-12-2012	1940	M89	Sat	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
4592	30-12-2012	2301	M22	Sun	4XZ IDF/Israeli Navy Haifa ip "NW QTC NR 737 ..."	CW	(LG2)
4595	1-12-2012	1848	M22	Sat	4XZ: IN Haifa "=="VVV DE 4XZ 4XZ = = RR8W RR8W QSL NR 54 == RR8W RR8W RR8W QSL NR 54 == AR AR VVV DE 4XZ VXZ = ="	CW	(WP3)
4595	3-12-2012	2142	M22	Mon	4XZ Haifa, ip	CW	(Q-HOL)
4595	4-12-2012	2016	M22	Tue	4XZ Haifa, ip	CW	(Q-HOL)
4595	9-12-2012	0555	M22	Sun	4XZ: IN Haifa = = ar vvv de 4xz 4xz = =	CW	(WP3)
4611	9-12-2012	2145	---		0143 250 = 031 = 2439890891835289892837360255303672078 11682168435 etc	CW	(FYM)
4620	11-12-2012	2030	M89	Tue	In chat: R MA2 K. R IEC IEC AR	CW	(JPL)
4620	27-12-2012	2357	---		Russian talk ... 5 kHz below S28 (Buzzer) "52 priyom"	USB	(FYM)
4625	2-12-2012	1320	S28	Sun	MDZhB 70 699 GIPERSTEN 50 04 31 63	USB	(AB)
4625	2-12-2012	2252	S28	Sun	Buzzer	USB	(LG2)
4625	3-12-2012	1915	S28		very strong, with some 'data' super imposed on the modulation with the same frequency components of the buzzing tone itself.	H3E	(FYM)
4625	3-12-2012	2141	S28	Mon	Buzzer	USB	(Q-HOL)
4625	5-12-2012	0805	S28		Russian voices on the buzzer(s frequency) while the buzzer buzzes	USB	(FYM)
4625	6-12-2012	0825	S28	Thu	MDZhB 89 775 GARVIZ 96 27 01 84	USB	(Avare)
4625	6-12-2012	0827	S28	Thu	MDZhB 08 008 KINODIALOG 67 55 50 11 SBOJ SBOJ SBOJ MDZhB 08 008 KINODIALOG 67 55 50 11... MDZhB 08 008 KINODIALOG 67 55 50 11	USB	(Avare)
4625	6-12-2012	1027	S28	Thu	MDZhB 42 204 VARANZER 57 08 79 16	USB	(Avare)
4625	6-12-2012	1030	S28	Thu	MDZhB 64 632 VINKANTON 67 70 52 94	USB	(Avare)
4625	6-12-2012	1323	S28	Thu	MDZhB 13 014 TINKAL' 79 08 15 70 GINETsEJ 98 28 76 54	USB	(Avare)
4625	6-12-2012	1324	S28	Thu	MDZhB 03 301 DINGI 06 55 70 92 ChINAB 48 92 24 08	USB	(Avare)
4625	13-12-2012	0909	S28	Thu	MDZhB 706 780 GIL'DIYa 57 85 11 86..MDZhB 76 780 GIL'DIYA 57 85 11 86	USB	(Avare)
4625	14-12-2012	1626	S38		Buzzer buzzes in lower tone. Perhaps buzzer is sad or ill? ; -)	USB	(FYM)
4625	24-12-2012	1812	S28	Mon	MDZhB 60 331 TIL'DA 36 98 34 17 BIL'BOKE 67 26 10 63	USB	(AB-EST/Q)
4625	24-12-2012	1815	S28	Mon	MDZhB 73 710 BIL'BOKS 04 85 76 70..SBOJ SBOJ SBOJ..MDZhB 73 710 BIL'BOKS 04 85 77 99	USB	(AB-EST/Q)
4625	27-12-2012	0823	S28	Thu	MDZhB 94 501 VILOTA 65 10 11 39	USB	(AB/Avare)
4625	27-12-2012	1158	S28	Thu	MDZhB 72 253 FILOKARTIYa 52 36 90 99	USB	(AB-EST)
4625	27-12-2012	1200	S28	Thu	MDZhB 50 969 LILOVYJ 83 02 51 91...MDZhB 50 969 LILOVY..SBOJ SBOJ SBOJ.. MDZhB 50 969 LILOVYJ 83 02 51 91	USB	(AB-EST)
4625	27-12-2012	1206	S28	Thu	MDZhB 30 777 VILASHa 13 20 66 22	USB	(AB-EST)
4625	27-12-2012	1252	S28	Thu	MDZhB 03 976 SILANOL 54 67 65 08	USB	(AB/Avare)
4625	27-12-2012	1315	S28	Thu	MDZhB 62 504 PILAV 47(scream "?????" - "STOP")95 53 31	USB	(AB-EST)
4625	27-12-2012	1319	S28	Thu	MDZhB 28 708 PIKTS 39 35 47 65	USB	(AB-EST)
4625	28-12-2012	0135	S28		Buzzer, sounds 'shaky'	USB	(FYM)
4625	28-12-2012	0304	S28		Buzzer off, and on, then weak, then it heard like a 'new buzzer was installed'	USB	(FYM)
4625	28-12-2012	1137	S28	Fri	MDZhB 51 810 SIKOMOR 34 71 20 30 TcILKLOSEDAL 47 70 28 06	USB	(AB/Avare)
4625	29-12-2012	1340	S28	Sat	MDZhB 70 953 VIKING 90 29 45 76	USB	(AB/Avare)
4625	29-12-2012	1343	S28	Sat	MDZhB 06 486 LIKVEMIN 50 18 13 44 MIKAROZA 91 81 57 72	USB	(AB/Avare)
4625	31-12-2012	1334	S28	Mon	MDZhB 76 186 KIZYaK 99 89 96 04	USB	(AB/Avare)
4625	31-12-2012	1345	S28	Mon	MDZhB 90 844 PIZOLIT 56 01 85 20	USB	(AB/Avare)
4635	5-12-2012	1911	M32	Wed	RCQE: Russian navy ship "RJD99 DE RCQE QSA QTC 681 8 5 2229 681 SML FOR RJH74"	CW	(PPA)
4635	9-12-2012	0608	M32a	Sun	RAY85: Russian Navy. rjd99 de ray85 773 17 9 1001 773 = for rjh74 rjd90 = 09061 99687 10431 41998 /1310 11100	CW	(WP3)

Freq.	date	UTC	enigma	day	remarks	mode	contributor
					40420 57010 70100 80030 22261 00010 20202 88000 09014 = + ray85 k		
4635	9-12-2012	0612	M32a	Sun	RBC89: Russian Navy. rjd99 de rbc89 297 19 9 1001 297 = for rjh74 rjd90 = 09061 99688 10402 41/97 91311 11030 40370 54000 70222 89/// 22281 01030 20303 313// 40503 88000 09016 = + rbc89 k	CW	(WP3)
4635	9-12-2012	0618	M32a	Sun	RAH82: Russian Navy. rjd99 de rah82 175 16 9 0941 175 = for rjd90 rjh74 = 09001 99666 10343 41/// /0708 11070 40300 54020 70011 8/// 22200 00010 88000 09013 = rah82 k	CW	(WP3)
4635	9-12-2012	0622	M32a	Sun	RAH82: Russian Navy. rjd99 de rah82 512 16 9 1005 512 = for rjd90 rjh74 = 09061 99666 10340 41/97 91415 11070 40280 54020 70022 89/// 22310 00020 88000 09013 = rah82 k	CW	(WP3)
4635	9-12-2012	0640	M32a	Sun	RCQE: Russian Navy. rjd99 de rcqe 398 20 9 1033 398 = sml for rjh45 rjh74 rjd90 = 09061 99666 10343 41/97 81411 11050 40305 56010 70022 8862/ 22200 00030 20402 88000 80000 09015 = + rcqe k	CW	(WP3)
4635	9-12-2012	0726	M32a	Sun	RBC89: Russian Navy. rjd99 de rbc89 812 11 9 1115 812 = for rjd99 = 94797 40069 76487 00342 2662 24817 47672 15435 79072 09009 = + rbc89 k	CW	(WP3)
4635	9-12-2012	1654	M32a	Sun	RAH82: Russian Navy. 988 16 9 2033 988 = for rjd90 rjh74 = 09181 99665 10359 41/97 90910 11060 40280 52020 72222 89/// 22232 00020 88000 09013 = + rah82 k	CW	(WP3)
4635	9-12-2012	1725	M32a	Sun	RAH82: Russian Navy. rjd99 de rah82 723 16 8 2112 723 = for rjd90 rjh74 = 08181 99666 10343 41998 00908 11070 40320 54000 70112 80000 22200 00010 88000 08013 = + rah82 k	CW	(WP3)
4635	9-12-2012	1745	M32a	Sun	RBC89: Russian Navy. rjd99 de rbc89 711 25 8 2130 711 = for rit rjd99 = 11111 07723 50258	CW	(WP3)
4635	9-12-2012	1800	M32a	Sun	RHP86: Russian Navy. rjd99 de rhp86 30 17 8 2155 431 = for rjh45 rjh74 rjd90 = 08181 99665 10407 51/97 /1112 11060 40377 54002 70222 8/// 22200 00020 20302 08013 = + rhp86 k	CW	(WP3)
4635	9-12-2012	1816	M32a	Sun	RAY85: Russian Navy. rjd99 de ray85 293 17 9 2210 293 = for rjh74 rjd90 = 09181 09690 10416 41/98 /1311 11005 40380 54000 70002 8/// 22221 00010 20304 88000 09014 = + ray85 k	CW	(WP3)
4635	9-12-2012	1835	M32a	Sun	RCQE: Russian Navy. rjd99 de rcqe 455 18 8 2214 455 = sml for rjh45 rjh74 rjd90 = 08181 99666 10343 41/97 /1110 11080 40325 54000 70022 6/// 22200 00030 20201 08013 = rcqe k	CW	(WP3)
4635	10-12-2012	0002	M32a	Mon	RMB81: Russian Navy. rjd99 de rmb81 714 18 10 0400 713 = for rjh74 rjd90 = 10001 99651 10367 41/97 81110 11100 40290 570__ 70202 22200 00010 299// 399// 88000 80000 10015 = + rmb81 k	CW	(WP3)
4635	10-12-2012	0015	M32a	Mon	RCQE: Russian Navy. rjd99 de rcqe 122 18 10 0411 122 = sml for rjh45 rjh74 rjd90 = 10001 99665 10344 41/96 /0310 11060 40265 58040 77122 8/// 22222 00030 20503 10013 = + rcqe k	CW	(WP3)
4637	25-12-2012	1820	M14	Tue	5FSG, "186 (R) 752 752 15 15 = = msg[5FSG pairs] = = 752 752 15 15 0 0 0 0"	CW	(Q-HOL)
4648	6-12-2012	1035	M32c	Thu	Russian Air Force. xxx xxx 36406 rea4 rea4 barnewa 2333 7150 k	CW	(Avare)
4650.9	10-12-2012	0600	MX	Mon	Beacon "S" Severomorsk	CW	(WP3)
4665	23-12-2012	1302	RMv	Sun	Russian Mil. Female operator SALTA-34 clg FAUNA-87 and ARAK-74	USB	(ASh)
4754	7-12-2012	1912	M32	Fri	MMLK: CIS mil. "BCJ9 DE MMLK QCZ K"	CW	(PPA)
4760	7-12-2012	2130	E06		472 224 15. Audio sounds raw.	USB	(FYM)
4760	7-12-2012	2130	E06	Fri	472 (R) 204 204 15 15 msg [5FSG pairs] 204 204 15 15 0 0 0 AM 0 0"		(Q-HOL)
4760	7-12-2012	2134	E06	Fri	in progress with bad quality audio	AM	(Avare)
4760	21-12-2012	2130	E06		472 204 15	USB	(FYM)

Freq.	date	UTC	enigma	day	remarks	mode	contributor
4761	25-12-2012	1920	M14	Tue	748	CW	(HFD)
4761.5	28-12-2012	0740	M32	Fri	Russian mil. "EPL9 DE EFEZ QTC 316 22 28 1125 316 = MXGMA "	CW	(PPA)
4762	26-12-2012	1920	M14	Wed	"748 (R) 200 200 15 15 == msg == 200 200 15 15 0 0 0 0"	CW	(Q-HOL)
4828	2-12-2012	1320	M03	Sun	437/00	CW	(MPJ)
4828	5-12-2012	1114	M03		650/00	CW	(FYM)
4828	6-12-2012	1320	M03	Thu	434/38 = = 000 26 46502 33319 ... 60583 64116 = = ...	CW	(MPJ)
4828	9-12-2012	1320	M03	Sun	430/30 32792 _56_3 ... 05564 877_5	CW	(MPJ)
4828	11-12-2012	1115	M03	Tue	272/00	CW	(HFD)
4828	11-12-2012	1115	M03	Tue	272/00	CW	(MPJ)
4828	12-12-2012	1115	M03	Wed	650/00	CW	(HFD)
4828	16-12-2012	1322	M03	Sun	437/00 = = 0 0 0	CW	(Q-HOL)
4828	19-12-2012	1109	M03		VVV's from M03. Frequency was tuned a bit while sending the VVV's. At 1115 the transmission itself: 652/33 = = 55360 87822 etc	CW	(FYM)
4828	20-12-2012	1115	M03		650/00	CW	(FYM)
4828	20-12-2012	1115	M03	Thu	650/00	CW	(MPJ)
4828	20-12-2012	1312	M03		1312Z some test tones, 1315Z 'VVV', 1320Z: 437/00	CW	(FYM)
4828	23-12-2012	1320	M03	Sun	432/31 == 43896 93509 ... 181.7 .38..	CW	(MPJ)
4828	25-12-2012	1115	M03	Tue	272/00 (R) = = 0 0 0	CW	(Q-HOL)
4828	26-12-2012	1115	M03	Wed	657/35 (R) = = msg [5FSG pairs] = = 657/35 657/35 657/35 657/35 657/35 = = rpt msg [5f] = = 000. At 1110 UTC: VVV	CW	(Q-HOL)
4828	30-12-2012	1320	M03	Sun	437/00 = = 0 0 0	CW	(Q/MPJ)
4836	6-12-2012	2028	E06	Thu	321 (R)	AM	(Q-HOL)
4836	6-12-2012	2029	E06	Thu	321 853 15 45361 74528 56326 85234 67381 47346 67381 56274 58629 97514 58245 08601 46073 67406 49075 853 15 00000	AM	(Spec)
4836	6-12-2012	2032	E06	Thu	321 (R) msg 0 0 0 0 0	AM	(Q-HOL)
4836	20-12-2012	2030	E06	Thu	"321 (R) 853 853 15 15 msg 0 0 0 0 0"	AM	(Q-HOL)
4851	6-12-2012	1808	M32a	Thu	Russian Navy "rcv de rir98 qsl 281"	CW	(WP3)
4860	29-11-2012	1120	M89	Thu	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL)
4860	3-12-2012	1120	M89	Mon	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL)
4860	3-12-2012	1520	M89	Mon	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL)
4860	11-12-2012	1420	M89	Tue	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL)
4860	21-12-2012	2319	M89	Fri	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL)
4894	10-12-2012	1853	M32a	Mon	Russian Navy "RIT DE RGR35 QYT9 QSA?"	CW	(PPA)
4894	10-12-2012	2006	M32a	Mon	Russian Navy. DE RIT OK AS 1 K RGR35 DE RIT K	CW	(BCI)
4894	21-12-2012	2006	M32a	Fri	Russian Navy. RIT DE RGR35 K	CW	(BCI)
4909	4-12-2012	2000	E11c	Tue	757/0000/00	USB	(FN)
4909	11-12-2012	2000	E11c	Tue	757/0000/00	USB	(Q-HOL)
4909	11-12-2012	2000	E11c	Tue	757/0000/00	USB	(Spec)
4909	18-12-2012	2000	E11c		757/0010/00	USB	(FYM)
4909	18-12-2012	2000	E11c	Tue	YL, EE, 757/0010/00	USB	(Q-HOL)
4909	18-12-2012	2000	E11c	Tue	757/0010/00	USB	(saber)
4909	18-12-2012	2000	E11c	Tue	757/0010/00	USB	(Spec)
4909	25-12-2012	2000	E11c	Tue	757/0000/00	USB	(Q-HOL)
4938	23-12-2012	1840	E07	Sun	OM, EE, "989 989 989 1 (R) 553 70 553 70 msg 000 000"	AM	(Q-HOL)
4938	26-12-2012	1840	E07	Wed	OM, EE, "989 989 989 1 (R) 553 70 553 70[1923z] msg 000 000"	AM	(Q-HOL)
4950.6	7-12-2012	1944	M21	Fri	=992352??t???? =992353??t???? =992354??t????..." etc.	CW	(Q-HOL)
4951.5	9-12-2012	2113	M21		=990116??0???? other format (also off time ?)	CW	(FYM)
4951.5	10-12-2012	1840	M21	Mon	PVO marker	CW	(TR2)
4951.5	17-12-2012	2308	M21	Mon	Russian Air Defence =990308??0????	CW	(MPJ)
4951.5	18-12-2012	1607	M21	Tue	Russian Air Defence =992010??0???? 4 mins fast	CW	(MPJ)
4951.5	21-12-2012	2252	M21		= 990252??0????	CW	(FYM)
4959	17-12-2012	0639	M41	Mon	Russian Air Defense c/s 8OAW sending plots	CW	(BCI)
4959	18-12-2012	1553	M41	Tue	Russian Air Defence. 5EQB 5EQB 5EQB AR 9981	CW	(MPJ)

Freq.	date	UTC	enigma	day	remarks	mode	contributor
					441768152 0099 834417178 52 5 179983 9100 5119 ...		
4979	14-12-2012	2132	M32a	Fri	Russian Navy. RAL2 wkg RMW2 and RHQ2. Radio checks	CW	(PPA)
4979	14-12-2012	2132	M32b	Fri	RAL2: Russian naval aviation clg RMW2 and RHQ2 for radio check. RMW2 replies.	CW	(PPA)
5000	7-12-2012	1742	M22	Fri	4XZ - Haifa "VVV DE = VVV DE 4XZ 4XZ =="	CW	(BCI)
5008	26-12-2012	0038	M32a	Wed	RBEG: Russian Navy Vessel. Msg to RCV ends "=AR RBEG K CW RCV DE RBEG OK QRUK"		(LG2)
5041	10-12-2012	2255	M89	Mon	In tfc: 5ATN T5.. 5..4 6N4D 3..6 A.. (Cont'd)	CW	(JPL)
5115	2-12-2012	1533	V24		Weak, other lead in music.	A3E	(FYM)
5118	1-12-2012	2030	S06	Sat	314 314 314 00000	AM	(Q-HOL)
5118	16-12-2012	2030	S06	Sun	314 314 314 000	USB	(ASh)
5129	1-12-2012	1205	M32	Sat	8CAT: Russian Mil. "yll de 8cat 103 97 1 0800 103 = 147 = aaaaa yöino gzljy clykw "	CW	(WP3)
5129	1-12-2012	1205	M32a	Sat	RIR98: Russian Navy "rcv de rir98 462 18 1 0400 462 = sml for rje73 rjh45 = 01001 99349 10358 41598 82601 10140 40200 54000 70222 82000 22200 00180 20000 88000 01014 = + rir98 k"	CW	(WP3)
5146	6-12-2012	0530	E07a	Thu	188 1 33633 101 53 51966 91365 84040 ... 93252 22581 96870 000 000	USB	(Spec)
5146	20-12-2012	0530	E07a	Thu	188 1 66269 564 71 46573 14314 81099 ... 39298 18440 77787 000 000	USB	(Spec)
5153.7	27-12-2012	2249	MXD		D beacon	CW	(FYM)
5153.8	8-12-2012	1145	MX	Sat	Beacon "P"	CW	(JPL-SE)
5153.9	21-12-2012	0530	MX	Fri	Russian Navy Marker "S" Arkhangelsk	CW	(TR2)
5154	21-12-2012	1800	MX	Fri	Russian Navy marker "C" Moscow	CW	(TR2)
5154	27-12-2012	2247	MXC		C beacon	CW	(FYM)
5156.8	21-12-2012	0530	MX	Fri	Russian Navy Marker "L"	CW	(TR2)
5156.8	27-12-2012	2201	MXL		L beacon	CW	(FYM)
5157	3-12-2012	0550	M12	Mon	417 000	CW	(FN)
5157	8-12-2012	1145	MX	Sat	Beacon "L"	CW	(JPL-SE)
5157	10-12-2012	0550	M12	Mon	417 00	CW	(FN)
5157	10-12-2012	0550	M12	Mon	417 0	CW	(HFD)
5157	17-12-2012	0550	M12	Mon	417 000	CW	(FN)
5157	24-12-2012	0550	M12	Mon	417 000	CW	(FN)
5164	5-12-2012	2100	E07a	Wed	815 1 33633 101 53 51966 91365 ... 22581 96870	USB	(MPJ)
5164	5-12-2012	2120	E07a	Wed	815 1 33633 101 53 51966 91365 84040 ... 93252 22581 96870 000 000	USB	(Spec)
5164	12-12-2012	2120	E07a	Wed	815 815 815 000	USB	(Q-HOL)
5164	19-12-2012	2120	E07a	Wed	OM, EE, "815 815 815 1 66269 (R) 564 71 564 71 46573 14314 81099...39298 18440 77787 000 000"	USB	(Q-HOL)
5164	19-12-2012	2120	E07a	Wed	815 1 66269 564 71 46573 14314 81099 ... 39298 18440 77787 000 000	USB	(Spec)
5164	26-12-2012	2120	E07a	Wed	OM, EE, "815 815 815 1 66269 (R) 564 71 564 71 msg 000 000"	USB	(Q-HOL)
5224	27-12-2012	2253	M32a		BK RCV NR107 RPT AA 99 K	CW	(FYM)
5230	3-12-2012	1656	M89	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
5230	4-12-2012	0027	M89	Tue	In tfc SVC RW 3416.6762 . 06.4.D16. 110.5 AR ... AR	CW	(JPL)
5230	4-12-2012	1505	M89	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
5230	4-12-2012	2058	M89	Tue	V DKG6 DKG6 DKG6 DE 3A7D 3A7D	CW	(PPA)
5230	5-12-2012	2137	M89	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
5230	5-12-2012	2257	M89	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
5230	6-12-2012	1744	M89	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
5230	6-12-2012	2100	M89	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
5230	7-12-2012	1749	M89	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
5230	7-12-2012	2210	M89	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
5230	7-12-2012	2309	M89	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
5230	8-12-2012	0059	M89	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
5230	9-12-2012	1748	M89	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
5230	9-12-2012	1913	M89		V DKG6 (3x) DE 3A7D (2x)	CW	(FYM)

Freq.	date	UTC	enigma	day	remarks	mode	contributor
5230	9-12-2012	2138	M89	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
5230	10-12-2012	0030	M89	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
5230	10-12-2012	2109	M89	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
5230	17-12-2012	1251	M89	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
5230	17-12-2012	1604	M89	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
5230	17-12-2012	2010	M89	Mon	V DKG6 DKG6 DKG6 DE 3A7D 3A7D	CW	(PPA)
5230	17-12-2012	2102	M89	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
5230	18-12-2012	2244	M89	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
5230	21-12-2012	1950	M89	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
5230	22-12-2012	1559	M89	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
5230	22-12-2012	1933	M89	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
5230	23-12-2012	0129	M89	Sun	In tfc: 100../206/2257 AR QSL ? HR .. NR 17 K followed by V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
5230	27-12-2012	2244	M89		weak, V DKG6 (3x) DE 3A7D (2x)	CW	(FYM)
5249	17-12-2012	1558	---	Mon	Unid, in progress: UHU AR. UAA AR. .TU AR. IAV AR. VRI AR. TDG AR (Silent - 1601z)	CW	(JPL)
5268	25-12-2012	2005	M32	Tue	xxx xxx xxx 36182 01163 k	CW	(WP3)
5278	3-12-2012	2040	E07		relatively low modulation depth, 472 472 472 1 (rpt) 489 59 49357 etc	AM	(FYM)
5278	3-12-2012	2040	E07	Mon	472 1	AM	(HFD)
5278	4-12-2012	0023	M89	Tue	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
5278	4-12-2012	0943	M89	Tue	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
5278	4-12-2012	1018	M89	Tue	In tfc 3A74 T5D6 I.3...	CW	(JPL)
5278	8-12-2012	0031	M89	Sat	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
5278	8-12-2012	0343	M89	Sat	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
5278	10-12-2012	0022	M89	Mon	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
5278	10-12-2012	0356	M89	Mon	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
5278	10-12-2012	1440	M89	Mon	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
5278	13-12-2012	0340	M89	Thu	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
5278	13-12-2012	1018	M89	Thu	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
5278	17-12-2012	2040	E07		472	AM	(FYM)
5278	17-12-2012	2040	E07	Mon	472 472 472 1 (R) 235 91 235 91 msg 000 000	AM	(Q-HOL)
5278	17-12-2012	2051	E07	Mon	in progress 5F message ending 000 000	AM	(PPA)
5278	22-12-2012	0512	M89	Sat	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW	(JPL)
5278	23-12-2012	0606	M89	Sun	V GKVZ (x3) DE Q7NW (x2)	CW	(JPL)
5284	6-12-2012	0730	M12	Thu	277 000	CW	(FN)
5284	6-12-2012	0730	M12	Thu	277 0	CW	(HFD)
5284	13-12-2012	0730	M12	Thu	277 000	CW	(FN)
5284	20-12-2012	0730	M12	Thu	277 000	CW	(FN)
5284	27-12-2012	0730	M12	Thu	277 000	CW	(FN)
5286	19-12-2012	0513	M32	Wed	Russian Mil. IK2G DE GVB2 QTC. GVB2 226 27 19 0910 226 = 754 BT KNIÖÖ NLSFL ChROLW NLSFL ChROLW NLSFL ChROLEXD ChÜUÖ YDXGL NTXIN VMHUO OLCUT ZKChBV KCKTP OÜPHK SÜHSX MÖFZF SBQSÄ ÖWWJI AKXKP XFAVM YBLNF HChChKU VQUda ÄOPWT K	CW	(TR2)
5310.5	18-12-2012	1535	M32	Tue	Russian Mil. FN7Q de OCS2 QRV K. OCS2 R 232 K.	CW	(MPJ)
5312	5-12-2012	2200	M12	Wed	350 000	CW	(FN)
5312	5-12-2012	2200	M12	Wed	350 350 350 000	CW	(Q-HOL)
5312	12-12-2012	2200	M12	Wed	350 000	CW	(FN)
5312	12-12-2012	2200	M12	Wed	350 0	CW	(HFD)
5312	12-12-2012	2200	M12	Wed	350 350 350 000	CW	(Q-HOL)
5312	19-12-2012	2200	M12	Wed	350 000	CW	(FN)
5312	26-12-2012	2200	M12	Wed	350 1 261 97 82121	CW	(FN)
5312	26-12-2012	2200	M12	Wed	"350 350 350 1 (R) 261 97 261 97 msg 000 000"	CW	(Q-HOL)
5314	23-12-2012	0604	M32	Sun	CIS military "EBOZ DE 8J23 QTC 78 9 23 0725 = ZKN = 32106"	CW	(PPA)
5320	6-12-2012	1800	M01	Thu	183 30 = = 5284. 77074 ... 90981 28318 = = 183 30 0 0 0	CW	(MPJ)
5320	11-12-2012	1800	M01	Tue	197 316 30///14398 64206 ... 12828 31630//31630 0 0 0	CW	(MPJ)

Freq.	date	UTC	enigma	day	remarks	mode	contributor
5320	21-12-2012	1550	M89	Fri	V DKG6 DKG6 DKG6 de 3A7D 3A7D	CW	(FN)
5321	27-12-2012	1800	M01	Thu	197 + msg	CW	(MYK)
5322	20-12-2012	1731	M32a	Thu	Russian Naval Unit sets up encrypted Morse sked: ZZT LLLLLKKMMVKVMMMVKLLKLLMLV JGKRZDHL ZCS ZRN AS1. Nothing further-QSYd?	CW	(MPJ)
5342	13-12-2012	0326	MX	Thu	Beacon "V"	CW	(JPL)
5358	1-12-2012	1531	M03	Sat	798/00 = = 0 0 0	CW	(MPJ)
5358	22-12-2012	1535	M03	Sat	798/00	CW	(MPJ)
5358	29-12-2012	1535	M03	Sat	798/00 = = 000	CW	(MPJ)
5366	23-12-2012	0559	M32	Sun	CIS military "ZAFT DE TLG2 QSA"	CW	(PPA)
5372	18-12-2012	1657	M32a	Tue	Russian Warship sends Message to RCV: RBEG 130 18 1935 322 = SML = MMMMM JUFVX SQQPH ... AR RBEG K.	CW	(MPJ)
5378	7-12-2012	0836	M32	Fri	Russian Mil. "MIRL DE IVDH NIL R I E S 5 Z E R 2 6 T QRV K"	CW	(BCI)
5378	18-12-2012	1503	M32	Tue	Russian Mil. TTYH QRV K. RPT 26 K. (Receiving tfc) R 773 K.	CW	(MPJ)
5380	1-12-2012	1631	M32a	Sat	RFE5: Russian Navy Vessel wkg RJD99	CW	(LG2)
5430	22-12-2012	0800	M14	Sat	171-721 5=63720	CW	(HFD)
5448	20-12-2012	1041	S30	Thu	8S1Shch TZNM FYa5E F61N MUZD RVNShch Zh7NZh VTKh3 Priyom	USB	(AnRus)
5449	6-12-2012	2130	E07	Thu	744 744 744 000	AM	(Q-HOL)
5449	13-12-2012	2130	E07	Thu	744 744 744 000	AM	(Q-HOL)
5449	20-12-2012	2130	E07	Thu	744 000	USB	
5449	20-12-2012	2130	E07	Thu	OM, EE, "744 744 744 000 (R)"	AM	(Q-HOL)
5449	27-12-2012	2130	E07	Thu	OM, EE, "744 744 744 1 (R)"	AM	(Q-HOL)
5500	3-12-2012	1111	M89	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
5500	3-12-2012	1507	M89	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
5500	4-12-2012	1017	M89	Tue	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL)
5500	4-12-2012	1338	M89	Tue	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL)
5500	4-12-2012	1409	M89	Tue	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
5500	5-12-2012	2128	M89	Wed	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL)
5500	5-12-2012	2300	M89	Wed	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL)
5500	6-12-2012	1738	M89	Thu	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL)
5500	6-12-2012	2108	M89	Thu	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL)
5500	7-12-2012	1556	M89	Fri	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL)
5500	7-12-2012	1825	M89	Fri	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL)
5500	7-12-2012	2216	M89	Fri	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
5500	8-12-2012	1112	M89	Sat	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
5500	9-12-2012	1806	M89	Sun	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL)
5500	9-12-2012	2129	M89	Sun	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL)
5500	10-12-2012	1547	M89	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL)
5545	10-12-2012	0034	M89	Mon	In chat: 4NUA 34TU N.NA 3443 ..TT (Cont/Ed)	CW	(JPL)
5561	22-12-2012	0900	M14	Sat	171-721 5=63720	CW	(HFD)
5620	23-12-2012	1355	RMv	Sun	Russian Mil. Male operator LITON-05 clg TRON-34	USB	(ASh)
5634	11-12-2012	1542	M89	Tue	In chat: NR NR 8170 CK .894.2. .000 RMK 239. TO .426 K K	CW	(JPL)
5660	4-12-2012	1010	S06s	Tue	893	USB	(HFD)
5709	5-12-2012	1540	M12	Wed	214 1 617 83 40964	CW	(FN)
5709	12-12-2012	1540	M12	Wed	214 1 480 211 63676	CW	(FN)
5709	12-12-2012	1540	M12	Wed	214 1	CW	(HFD)
5709	19-12-2012	1540	M12	Wed	214 1 793 145 36518	CW	(FN)
5709	19-12-2012	1540	M12		214 214 214 1 793 145 36518 etc	CW	(FYM)
5709	26-12-2012	1540	M12	Wed	214 1 439 69 99944	CW	(FN)
5736	23-12-2012	0511	M32	Sun	NC1B: CIS military. Duplex net; radio checks with HWOS ,BZK8 ,CPOJ ,ISQ1 and YWQF	CW	(PPA)
5742	1-12-2012	1441	VC01	Sat	Chinese Robot, VC01, using 6 minute cycle time	LSB	(Token)
5742	24-12-2012	1208	VC01	Mon	Chinese Robot in progress. Also at 1305 UTC	LSB	(AB-HK)
5742	28-12-2012	1327	VC01	Fri	Chinese Robot in progress	LSB	(AB-HK)
5752	18-12-2012	1639	M21	Tue	Russian Air Defence =992039??8?????. Some traffic: 12_10753797640=2221070100 ...	CW	(MPJ)

Freq.	date	UTC	enigma	day	remarks	mode	contributor
5760	22-12-2012	0230	V02a		End at ~0241Z	A3E	(FYM)
5762	29-12-2012	0328	V02a		finished 0342	A3E	(FYM)
5763	13-12-2012	1015	M89	Thu	V WITN (x3) DE GNXG (x2) (Cont'd) //8789	CW	(JPL)
5784	1-12-2012	0600	M12	Sat	751 000	CW	(FN)
5784	6-12-2012	0750	M12	Thu	277 000	CW	(FN)
5784	6-12-2012	0750	M12	Thu	277 0	CW	(HFD)
5784	8-12-2012	0600	M12	Sat	751 000	CW	(FN)
5784	13-12-2012	0750	M12	Thu	277 000	CW	(FN)
5784	15-12-2012	0600	M12	Sat	751 000	CW	(FN)
5784	20-12-2012	0750	M12	Thu	277 000	CW	(FN)
5784	22-12-2012	0600	M12	Sat	751 000	CW	(FN)
5784	27-12-2012	0750	M12	Thu	277 000	CW	(FN)
5788	5-12-2012	1740	M12	Wed	463 1 8901 83 56347	CW	(FN)
5788	12-12-2012	1740	M12	Wed	463 1 1142 44 51721	CW	(FN)
5788	19-12-2012	1740	M12	Wed	463 1 1965 62 14714	CW	(FN)
5788	26-12-2012	1740	M12	Wed	463 1 9119 96 18657	CW	(FN)
5800	3-12-2012	0558	M08a	Mon	Begin Tx, weak modulation	CW	(KC2TTK)
5800	5-12-2012	0655	SK01	Wed	Tx & dead air. 0700 UTC: Tx repeating every 5 minutes	RDFT	(KC2TTK)
5800	5-12-2012	0729	SK01	Wed	Tx & dead air, repeating every 5 minutes	RDFT	(KC2TTK)
5800	5-12-2012	0749	SK01	Wed	Tx begins	RDFT	(KC2TTK)
5800	7-12-2012	0605	M08a	Fri	i.p. "sk" at 0632 UTC	CW	(KC2TTK)
5800	9-12-2012	0600	M08a	Sun	i.p.	CW	(KC2TTK)
5801	3-12-2012	1115	M89	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
5801	4-12-2012	0947	M89	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
5801	8-12-2012	0411	M89	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
5801	8-12-2012	1136	M89	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
5801	8-12-2012	1141	M89	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
5801	12-12-2012	1144	M89	Wed	In tfc: 3TD7 7TT. 4T7D 7T4D 47D.. (Cont'ed) AR QSL ? Return to V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
5801	13-12-2012	0319	M89	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
5801	13-12-2012	1013	M89	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
5801	18-12-2012	0410	M89	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
5810	29-12-2012	1500	M01	Sat	197 131 30 = = 89265 ... 38836 20189 = = 131 30 0 0 0.	CW	(MPJ)
5811	1-12-2012	1500	M01	Sat	Started on 5810, mark QRM, moved to 5811 then ran both CW freqs in parallel. 197/26 261 30 = = 54074 39117 ... 48936 16054 = = 261 30 0 0 0	CW	(MPJ)
5811	22-12-2012	1500	M01	Sat	197 205 30 == 81048 89440 ... 60543 59516 = 205 30 0 0 0	CW	(MPJ)
5836	12-12-2012	1820	E07	Wed	989 0	AM	(HFD)
5836	23-12-2012	1820	E07	Sun	OM, EE, "989 989 989 1 (R) 553 70 553 70 msg 000 000"	AM	(Q-HOL)
5836	26-12-2012	1822	E07	Wed	OM, EE, "989 989 989 1 (R) msg[1923z] 000 000"	AM	(Q-HOL)
5836	30-12-2012	1820	E07	Sun	OM, EE, 989 989 989 000	AM	(Q-HOL)
5846	6-12-2012	0550	E07a	Thu	188 1 33633 101 53 51966 91365 84040 ... 93252 22581 96870 000 000	USB	(Spec)
5846	20-12-2012	0550	E07a	Thu	188 1 66269 564 71 46573 14314 81099 ... 39298 18440 77787 000 000	USB	(Spec)
5855	19-12-2012	0500	HM01	Wed	Voice/RDFT: 72125 RDFT 66035 RDFT 38025 RDFT 92035 RDFT 18335 RDFT 68145 RDFT 71125 etc.	USB/RDFT	(AB-USA)
5855	31-12-2012	0502	HM01	Mon	Mixed voice/RDFT transmission. Calls 27481 91691 70133 20867 01275 03081. 27481 was the first RDFT Tx	AM/RDFT	(KC2TTK)
5864	5-12-2012	2100	E07a	Wed	815 1 33633 101 53 51966 91365 84040 ... 93252 22581 96870 000 000	USB	(Spec)
5864	6-12-2012	1941	XPA	Thu	ip	MFSK	(Q-HOL)
5864	11-12-2012	1940	XPA	Tue	msg	MFSK	(HFD)
5864	11-12-2012	1940	XPA	Tue	138 138 138 000 (R) 01199 0000 00000 11140	MFSK	(Q-HOL)
5864	12-12-2012	2100	E07a	Wed	815 815 815 000	USB	(Q-HOL)
5864	18-12-2012	2040	XPA		end at ~19.42.30	F7D	(FYM)
5864	19-12-2012	2100	E07a	Wed	OM, EE, "815 815 815 1 66269 (R) 564 71 564 71 46573 14314 81099...39298 18440 77787 000 000"	USB	(Q-HOL)

Freq.	date	UTC	enigma	day	remarks	mode	contributor
5864	19-12-2012	2100	E07a	Wed	815 1 66269 564 71 46573 14314 81099 ... 39298 18440 77787 000 000	USB	(Spec)
5864	25-12-2012	1940	XPA	Tue	138 138 138 1 138 138 138 1 138 138 138 1 666662266262	MFSK	(Q-HOL)
5864	26-12-2012	2100	E07a	Wed	OM, EE, "815 815 815 1 66269 (R) 564 71 564 71 msg 000 000"	USB	(Q-HOL)
5864	26-12-2012	2100	E07a	Wed	English Man, message	USB	(saber)
5864	27-12-2012	1940	XPA	Thu	138 138 138 1 138 138 138 1 138 138 138 1 666622262622	MFSK	(Q-HOL)
5866	16-12-2012	1136	E06	Sun	Tests at 1136 and 1140 UTC: "5678 9" (R) and "1234 5 0" (R) at 1143 UTC: "164"	USB	(Q-HOL)
5866	16-12-2012	1224	E06	Sun	154 00000	AM	(saber)
5883	3-12-2012	0655	V02a	Mon	"Uno uno uno..."; dead air. 0658 UTC: "Atención 9(?)!8071 AM 823(?)12 048... 0700 UTC: Just one "Final"		(KC2TTK)
5888	9-12-2012	0700	V02a	Sun	"Atención 36722 48452 61771"; Headers "07132 28824", "27022 50711", "65563 18342". 0741 UTC: "Final final final"	AM	(KC2TTK)
5898	3-12-2012	0502	M08a	Mon	Begin Tx, weak modulation; stopped listening after call-up CW		(KC2TTK)
5898	3-12-2012	0757	V02a	Mon	Atención 78071 82312 14632. 0800 UTC: 78071 58071 42404. 0813 UTC: 82312 11466 30144. 0826 UTC: 14632 73824 56076	AM	(KC2TTK)
5898	5-12-2012	0600	SK01	Wed	Tx repeating every 5 minutes	RDFT	(KC2TTK)
5898	9-12-2012	0751	V02a	Sun	"Uno uno uno...". 0759 UTC: "Atención 36722 48452 61771", headers "57746 65522 ... 42761 64045". 0841 UTC: "Final final final"	AM	(KC2TTK)
5938	13-12-2012	1605	M01b	Thu	159-542 0=55622	CW	(HFD)
5982.8	27-12-2012	2306	M32a	Thu	Russian Navy vessel RIR96 wkg RGZ5 RCV	CW	(LG2)
5984	9-12-2012	2319	M32a	Sun	RFH70: Russian Navy. rcv de rfh70 qsa? k qyt4 qmo k	CW	(WP3)
6140	4-12-2012	0828	E25a	Tue	in progress ...15 127 15 127 15 127 15...	AM	(AIK)
6140	16-12-2012	0829	E25	Sun	Arabic music. Tone. YL at 0831 UTC: 950 950 950 msg (see N&O 183)	AM	(AIK/MG)
6140	16-12-2012	0831	E25	Sun	Music	AM	(AIK)
6140	16-12-2012	0916	E25	Sun	950 950 950	AM	(AIK)
6140	22-12-2012	0826	E25	Sat	Arabic music. Transmitter off	AM	(AIK)
6140	22-12-2012	0903	E25	Sat	Arabic music. Transmitter off	AM	(AIK)
6140	29-12-2012	0803	E25	Sat	Arabic music. Transmitter off	AM	(AIK)
6215	2-12-2012	1458	V24		After the music ('flute') 5 character groups are sent.	A3E	(FYM)
6215	2-12-2012	1500	V24	Sun	South Korean number station	USB	(AB)
6220	18-12-2012	2000	M32	Tue	FRXT: Russian Mil. Comms check with at least C6ZE QJ4Y BYMZ 8DVR XJT1 and FECJ. Prob Moscow-FE net.	CW	(MPJ)
6220	27-12-2012	1255	M32		LGSB (3x) de YV2A (2x) QTC K	CW	(FYM)
6220.5	18-12-2012	1705	M32	Tue	FECJ DE FRXT k. LWTM DE FRXT QTC k. = 727 16 28 30 50 727 = 80 3f iuimg huwaa5 ltr grps	CW	(MAUK)
6250	16-12-2012	1945	XSL	Sun	Japanese Navy a.k.a. Slot Machine	QPSK 1500bd	(AB-HK)
6268	29-12-2012	0553	M32a	Sat	Russian Navy "RHT83 RHT83 DE RFH64 RFH64 QSA NO NO ZZT ZZU AR"	CW	(PPA)
6290	19-11-2012	0003	M32a		RMC99: Russian Navy clg RMP	CW	(ALF)
6328	4-12-2012	1800	M32	Tue	PRPW: Russian Military "R 994 K". Nothing further.	CW	(MPJ)
6379	3-12-2012	2149	M22	Mon	4XZ Haifa, ip "...= = vvv de 4xz 4xz = =..."	CW	(Q-HOL)
6379	22-12-2012	2139	M22	Sat	4XZ "nr705"	CW	(ML4)
6379	30-12-2012	1759	M22	Sun	4XZ Haifa. "VVV DE 4XZ = = NR 027 NR 027 GTNAL = = etc"	CW	(TR2)
6379	30-12-2012	2205	M22	Sun	4XZ Haifa, ip	CW	(Q-HOL)
6417	16-12-2012	1945	XSL	Sun	Japanese Navy a.k.a. Slot Machine	QPSK 1500bd	(AB-HK)
6417	19-12-2012	1916	XSL	Wed	Japan Maritime Self-Defense Force	QPSK 1500	(PPA)
6420	12-12-2012	1240	S06s	Wed	967	USB	(HFD)
6420	19-12-2012	1230	S06s		967 214 5 24151 51802 etc	USB	(FYM)
6420	19-12-2012	1240	S06s	Wed	967	USB	(HFD)
6433	30-11-2012	1325	E11		299/00	USB	(MPJ)
6433	2-12-2012	1755	G11	Sun	271/30 55125 83858 ... 51190 9..59.	USB	(MPJ)
6433	8-12-2012	1020	S11a	Sat	331/33	USB	(Q-HOL)
6433	9-12-2012	1755	G11	Sun	270/00 Ende	USB	(MPJ)

Freq.	date	UTC	enigma	day	remarks	mode	contributor
6433	11-12-2012	1755	G11	Tue	279/34 28782 34086 ... 01086 76_68	USB	(MPJ)
6433	15-12-2012	1020	S11a		221/00	USB	(FYM)
6433	16-12-2012	1755	G11	Sun	270/00	USB	(Q-HOL)
6433	18-12-2012	1555	G11	Tue	270/00	USB	(MPJ)
6433	18-12-2012	1755	G11	Tue	270/00	USB	(saber)
6433	21-12-2012	1325	E11		299/00	USB	(FYM)
6433	21-12-2012	1325	G11	Fri	299/00	USB	(MPJ)
6433	22-12-2012	1325	G11		598/34	USB	(FYM)
6433	22-12-2012	1328	G11	Sat	298/30 ACHTUNG! 32005 32005 52170 ... 22950 22950 71302 71302	USB	(Q-HOL)
6433	23-12-2012	1755	G11	Sun	272/33 35260 3.2.. ... (end lost)	USB	(MPJ)
6433	23-12-2012	1755	G11	Sun	YL, GG, "272/33 ACHTUNG! msg	USB	(Q-HOL)
6433	26-12-2012	1020	S11a	Wed	331/00	USB	(Q-HOL)
6433	28-12-2012	1325	G11		299/00	USB	(FYM)
6433	29-12-2012	1325	G11	Sat	299/00	USB	(MPJ)
6433	30-12-2012	1755	G11	Sun	270/00	USB	(AIK)
6433	30-12-2012	1755	G11	Sun	YL, GG, 270/00 ENDE	USB	(Q/MPJ)
6440	4-12-2012	1000	S06s	Tue	893-204 =11749	USB	(HFD)
6445	16-12-2012	1945	XSL	Sun	Japanese Navy a.k.a. Slot Machine	QPSK 1500bd	(AB-HK)
6534	19-12-2012	0740	---	Wed	Unid (Slovak?) net. Female operator. Traffic. (See N&O 183)	USB	(TR2)
6607	3-12-2012	2150	M22	Mon	4XZ Haifa, ip "...= = vvv de 4xz 4xz = =..."	CW	(Q-HOL)
6607	3-12-2012	2256	M22	Mon	4XZ: Isr-N Haifa vvv de 4xz	CW	(SW2)
6607	4-12-2012	2017	M22	Tue	4XZ Haifa, ip	CW	(Q-HOL)
6685	21-12-2012	1336	RAv	Fri	Russian Air Force. c/s 76592 (Pskov based Il-76 Air Force RA-76592) voice msg : "dep SESCHA (Bryansk air base) to Pskov (air base) at 18:25 (Moscow time), fuel 35t"	USB	(Ash)
6768	22-12-2012	0110	V02a		Weak with QSB, hum on signal, one group 45188	A3E	(FYM)
6773	4-12-2012	0012	M89	Tue	V H2FL (x3) DE DRV8 (x2) (Cont'd) //8040	CW	(JPL)
6773	4-12-2012	0051	M89	Tue	In tfc 4U54 N364 7D.. 7U4. .T4..	CW	(JPL)
6773	4-12-2012	0418	M89	Tue	V H2FL (x3) DE DRV8 (x2) (Cont'd) //8040	CW	(JPL)
6773	5-12-2012	2313	M89	Wed	V H2FL (x3) DE DRV8 (x2) (Cont'd) //8040	CW	(JPL)
6773	7-12-2012	2255	M89	Fri	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797 and 4512	CW	(JPL)
6773	7-12-2012	2315	M89	Fri	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797 and 4512 and 8040	CW	(JPL)
6773	8-12-2012	0034	M89	Sat	V H2FL (x3) DE DRV8 (x2) (Cont'd) //8040	CW	(JPL)
6773	8-12-2012	0340	M89	Sat	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
6773	10-12-2012	0016	M89	Mon	V H2FL (x3) DE DRV8 (x2) (Cont'd) //8040	CW	(JPL)
6773	10-12-2012	0345	M89	Mon	V H2FL (x3) DE DRV8 (x2) (Cont'd) //8040	CW	(JPL)
6773	12-12-2012	2314	M89	Wed	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797 and 4512 and 8040	CW	(JPL)
6773	13-12-2012	0005	M89	Thu	V H2FL (x3) DE DRV8 (x2) (Cont'd) //8040	CW	(JPL)
6773	13-12-2012	0338	M89	Thu	V H2FL (x3) DE DRV8 (x2) (Cont'd) //8040	CW	(JPL)
6773	13-12-2012	2320	M89	Thu	V H2FL (x3) DE DRV8 (x2) (Cont'd) //8040	CW	(JPL)
6773	18-12-2012	0349	M89	Tue	V H2FL (x3) DE DRV8 (x2) (Cont'd) //8040	CW	(JPL)
6773	18-12-2012	2252	M89	Tue	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
6773	22-12-2012	0509	M89	Sat	V H2FL (x3) DE DRV8 (x2) (Cont'd) //8040	CW	(JPL)
6773	23-12-2012	0110	M89	Sun	V H2FL (x3) DE DRV8 (x2) (Cont'd) //8040	CW	(JPL)
6773	23-12-2012	0611	M89	Sun	V H2FL (x3) DE DRV8 (x2) (Cont'd) //8040	CW	(JPL)
6774	21-12-2012	2415	M89	Fri	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
6777	6-12-2012	2110	E07	Thu	744 744 744 000. At 2000 UTC: test	AM	(Q-HOL)
6777	13-12-2012	2110	E07	Thu	744 744 744 000	AM	(Q-HOL)
6777	20-12-2012	2110	E07	Thu	744 000	USB	
6777	20-12-2012	2110	E07	Thu	"744 744 744 000 (R)"	AM	(Q-HOL)
6777	27-12-2012	2110	E07	Thu	OM, EE, "744 744 744 1 (R)"	AM	(Q-HOL)
6778	3-12-2012	2020	E07	Mon	472 1-489 9=49657	AM	(HFD)
6802	5-12-2012	1720	M12	Wed	463 1 8901 83 56347	CW	(FN)
6802	12-12-2012	1720	M12	Wed	463 1 1142 44 51721	CW	(FN)

Freq.	date	UTC	enigma	day	remarks	mode	contributor
6802	26-12-2012	1720	M12	Wed	463 1 9119 96 18657	CW	(FN)
6825	7-12-2012	1527	M51		FAV22	CW	(FYM)
6827.1	7-12-2012	1527	M51		sending 5LG's, also: NR 17 D021662923 1984	CW	(FYM)
6830	29-12-2012	0630	M42	Sat	Russian Gov. Op-chat "RYYRYR RMC-27 RMC-27 RMC-27 de RDP-5 RDP-5 ... ZDR ZDR WAS PVL W NORME WAV S PRAZDNIKOM ... GODOM WM TAKWOVE SAMOGONAM-LUREGO SOKOLOV ZVV ZVV ...". (text is a bit garbled). Then into RUS-ARQ 100/500 at 0645 UTC	Baudot 50/500	(Tom)
6836	3-12-2012	0525	M32a	Mon	RMW46: Russian Navy 5LGs to unid "ZTC RMW46 08 31 3 0920 = 505 = ..."	CW	(ALF)
6840	29-11-2012	1120	M89	Thu	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL)
6840	3-12-2012	1120	M89	Mon	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL)
6840	3-12-2012	1520	M89	Mon	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL)
6840	3-12-2012	2120	M89	Mon	VVV (x3) Q2M DE NYZ (x2) QSA ? K	CW	(JPL)
6840	4-12-2012	1020	M89	Tue	VVV (x3) Q2M DE NYZ (x2) QSA ? K //10640	CW	(JPL)
6840	6-12-2012	2120	M89	Thu	VVV (x3) Q2M DE NYZ (x2) QSA ? K	CW	(JPL)
6840	7-12-2012	1524	M89		freq not too stable: VVV Q2M (3x) de NYZ (2x)	CW	(FYM)
6840	7-12-2012	2220	M89	Fri	VVV (x3) Q2M DE NYZ (x2) QSA ? K	CW	(JPL)
6840	7-12-2012	2320	M89	Fri	VVV (x3) Q2M DE NYZ (x2) QSA ? K	CW	(JPL)
6840	8-12-2012	1220	M89	Sat	VVV (x3) Q2M DE NYZ (x2) QSA ? K	CW	(JPL)
6840	10-12-2012	1920	M89	Mon	VVV (x3) Q2M DE NYZ (x2) QSA ? K	CW	(JPL)
6840	11-12-2012	1420	M89	Tue	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL)
6840	12-12-2012	1720	M89	Wed	VVV (x3) Q2M DE NYZ (x2) QSA ? K	CW	(JPL)
6840	13-12-2012	1020	M89	Thu	VVV (x3) Q2M DE NYZ (x2) QSA ? K	CW	(JPL)
6840	21-12-2012	2019	M89	Fri	VVV (x3) Q2M DE NYZ (x2) QSA ? K	CW	(JPL)
6840	21-12-2012	2319	M89	Fri	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	CW	(JPL)
6840	22-12-2012	1619	M89	Sat	VVV (x3) Q2M DE NYZ (x2) QSA ? K	CW	(JPL)
6840	23-12-2012	1320	M89	Sun	VVV (x3) Q2M DE NYZ (x2) QSA ? K	CW	(JPL)
6840	23-12-2012	1820	M89	Sun	VVV (x3) Q2M DE NYZ (x2) QSA ? K	CW	(JPL)
6842	16-12-2012	1120	E06	Sun	154 154 154 00000 (R)	USB	(Q-HOL)
6842	16-12-2012	1120	E06	Sun	Russian Man, test "0 1 2 3 4"	AM	(saber)
6842	16-12-2012	1127	E06	Sun	Tests at 1127 and 1129 UTC: 1234 0	USB	(Q-HOL)
6845	4-12-2012	1500	S06s	Tue	537-241 =50312	USB	(HFD)
6846	6-12-2012	0606	E07	Thu	188 188 188 1 33633 ... 188 188 188 1 3363	AM	(BCI)
6846	6-12-2012	0610	E07a	Thu	188 1 33633 101 53 51966 91365 84040 ... 93252 22581 96870 000 000	USB	(Spec)
6846	20-12-2012	0610	E07a	Thu	188 1 66269 564 71 46573 14314 81099 ... 39298 18440 77787 000 000	USB	(Spec)
6854	27-12-2012	2225	M08a		AGTGU TRITW RMRWA UNIDT etc	CW	(FYM)
6859	2-12-2012	1456	M42	Sun	Russian Diplo.	CROWD-36/OFDM (DLBB)	
6904	3-12-2012	1740	M12	Mon	257 1 2129 74 42130	CW	(FN)
6904	3-12-2012	1840	M12	Mon	257 1 8703 66 25151	CW	(FN)
6904	3-12-2012	1840	M12	Mon	257 1	CW	(HFD)
6904	3-12-2012	1940	M12	Mon	257 1 7760 45 94649	CW	(FN)
6904	3-12-2012	1940	M12	Mon	257 1	CW	(HFD)
6904	6-12-2012	1740	M12	Thu	257 1 ...	CW	(FN)
6904	6-12-2012	1740	M12	Thu	257 1 9807 90 __7_7 23255 ... 30__6 29717 0 0 0	CW	(MPJ)
6904	6-12-2012	1940	M12	Thu	257 1 3301 46 97385	CW	(FN)
6904	6-12-2012	1940	M12	Thu	257 1 3301 46 97385 65282 ... 15228 16980 0 0 0	CW	(MPJ)
6904	10-12-2012	1740	M12	Mon	257 1 2204 60 44251	CW	(FN)
6904	10-12-2012	1840	M12	Mon	257 1 1140 49 53133	CW	(FN)
6904	10-12-2012	1840	M12	Mon	257 1 1140 49 53133 50094 ... 83805 06561	CW	(MPJ)
6904	10-12-2012	1940	M12	Mon	257 1 7902 82 66854	CW	(FN)
6904	13-12-2012	1740	M12	Thu	257 1 1460 93 46602	CW	(FN)
6904	13-12-2012	1940	M12	Thu	257 1 6264 50 43905	CW	(FN)
6904	17-12-2012	1740	M12	Mon	257 1 2017 72 06323	CW	(FN)
6904	17-12-2012	1840	M12	Mon	257 1 2831 56 75728	CW	(FN)
6904	17-12-2012	1940	M12	Mon	257 1 7929 87 56087	CW	(FN)

Freq.	date	UTC	enigma	day	remarks	mode	contributor
6904	17-12-2012	1940	M12	Mon	257 1 7929 87 56087 94625 ... 78865 69180	CW	(MPJ)
6904	20-12-2012	1740	M12	Thu	257 1 1260 56 91327	CW	(FN)
6904	20-12-2012	1940	M12	Thu	257 1 3697 49 79889	CW	(FN)
6904	20-12-2012	1940	M12	Thu	"257 257 257 1 (R) 3687 49 3687 49 msg 000 000"	CW	(Q-HOL)
6904	24-12-2012	1740	M12	Mon	257 1 2371 70 04967	CW	(FN)
6904	24-12-2012	1840	M12	Mon	257 1 1668 55 63042	CW	(FN)
6904	24-12-2012	1940	M12	Mon	257 1 3107 88 38336	CW	(FN)
6904	24-12-2012	1940	M12	Mon	257 257 257 1 (R)...000 000	CW	(Q-HOL)
6904	27-12-2012	1740	M12	Thu	257 17591 64 23301	CW	(FN)
6904	27-12-2012	1940	M12	Thu	257 1 9124 42 95108	CW	(FN)
6904	27-12-2012	1940	M12	Thu	"257 257 257 1 (R) msg 000 000"	CW	(Q-HOL)
6909	5-12-2012	1520	M12	Wed	214 1 617 83 40964	CW	(FN)
6909	12-12-2012	1520	M12	Wed	214 1 480 211 63676	CW	(FN)
6909	12-12-2012	1520	M12	Wed	214 1	CW	(HFD)
6909	19-12-2012	1520	M12	Wed	214 1 793 145 36518	CW	(FN)
6909	26-12-2012	1520	M12	Wed	214 1 439 69 99944	CW	(FN)
6917.5	8-12-2012	1145	MX	Sat	Beacon "L"	CW	(JPL-SE)
6923	30-11-2012	1710	E11a		957/21 27900 58852 ... 25649 96035	USB	(MPJ)
6923	7-12-2012	1710	E11a	Fri	957/24 20361 40077 ... 69884 84703	USB	(MPJ)
6923	11-12-2012	0700	E11c	Tue	758/0000/00 Out	USB	(K3DCW)
6923	13-12-2012	1925	E11c	Thu	758/1000/00	USB	(HFD)
6923	18-12-2012	1925	E11c	Tue	758/2000/00	USB	(HFD)
6923	20-12-2012	1920	E11c	Thu	758/0000/00	USB	(FN)
6923	26-12-2012	1929	E11	Wed	ip, YL EE, ".5/00)	USB	(Q-HOL)
6923	27-12-2012	1929	E11	Thu	ip, YL EE, "5[fiver]...OBLIQUE... zero zero..."	USB	(Q-HOL)
6923.1	7-12-2012	1714	E11a		in progress 84703 ? last group	USB	(FYM)
6930	21-12-2012	1435	S6930		Russian counting: "1 2 3 4 5 6 7 8 9 10 Priyom"	USB	(FYM)
6956	29-11-2012	0520	M32a		RMW46: Russian Navy wkg RGR97, RGR98, RDQ81, RFH46, RGR94 for ZSA?	CW	(ALF)
6961	10-11-2012	1705	M12		246 246 ... 246 246	CW	(ALF)
6970	14-12-2012	1424	---		Chinese firedrake jammer jamming Sound of Hope.	AM	(FYM)
6982	12-12-2012	1800	E07	Wed	989 0	AM	(HFD)
6982	23-12-2012	1800	E07	Sun	OM, EE, "989 989 989 1 (R) 553 70 553 70 msg 000 000"	AM	(Q-HOL)
6982	30-12-2012	1800	E07	Sun	989 989 989 000	AM	(AIK)
6982	30-12-2012	1800	E07	Sun	OM, EE, 989 989 989 000	AM	(Q-HOL)
6988	27-11-2012	0657	M32		CIS Mil. c/s WAFE	CW	(BCI)
7038.7	3-12-2012	2240	MX	Mon	Beacon "D" Sevastopol	CW	(SW2)
7038.7	24-12-2012	1034	MX	Mon	Beacon "D"	CW	(AB)
7038.8	3-12-2012	2236	MX	Mon	Beacon "P" Kaliningrad	CW	(SW2)
7038.9	24-12-2012	1033	MX	Mon	Beacon "S"	CW	(AB-Sib)
7039.3	24-12-2012	1033	MX	Mon	Beacon "K"	CW	(AB-Sib)
7039.3	29-12-2012	0814	MX	Sat	Beacon "K"	CW	(AB-USA)
7039.3	31-12-2012	0833	MX	Mon	Beacon "K"	CW	(AB-Sib)
7039.3	31-12-2012	1317	MX	Mon	Beacon "K"	CW	(AB-Sib)
7039.4	24-12-2012	1033	MX	Mon	Beacon "M"	CW	(AB-Sib)
7039.4	31-12-2012	1317	MX	Mon	Beacon "M"	CW	(AB-Sib)
7317	20-12-2012	0820	E11a	Thu	430/35 Attention 16460 26821 60975 ... 86003 73902 46543 Out	USB	(Spec)
7317	24-12-2012	0820	E11	Mon	438/00	USB	(AB)
7364	11-12-2012	1920	XPA	Tue	msg	MFSK	(HFD)
7364	25-12-2012	1920	XPA	Tue	138 138 138 1 138 138 138 1 138 138 138 1 666662266262	MFSK	(Q-HOL)
7435	17-12-2012	1317	M51	Mon	(ip.)	CW	(FMB)
7463	3-12-2012	1340	M12	Mon	214 1 617 83 40964	CW	(FN)
7463	3-12-2012	1340	M12	Mon	214 1	CW	(HFD)
7463	10-12-2012	1340	M12	Mon	214 1 480 211 63676	CW	(FN)
7463	17-12-2012	1340	M12	Mon	214 1 793 145 36518	CW	(FN)
7463	17-12-2012	1340	M12		214 214 214 1 793 145	CW	(FYM)

Freq.	date	UTC	enigma	day	remarks	mode	contributor
7463	24-12-2012	1340	M12	Mon	214 1 439 69 99944	CW	(FN)
7468	5-12-2012	1910	M12	Wed	194 1 958 231 129*46*	CW	(FN)
7468	9-12-2012	1910	M12	Sun	194 1 958 231 12946	CW	(FN)
7468	9-12-2012	1910	M12	Sun	194 1	CW	(HFD)
7468	21-12-2012	1910	M12	Fri	194 1 194 115 32*7*58	CW	(FN)
7468	23-12-2012	1910	M12	Sun	194 1 194 115 32758	CW	(FN)
7468	26-12-2012	1910	M12	Wed	194 1	CW	(FN)
7468	30-12-2012	1910	M12	Sun	194 1 316 81 11349	CW	(FN)
7478	3-12-2012	2000	E07	Mon	472 1	AM	(HFD)
7504	28-12-2012	0915	S11a		484/34	USB	(FYM)
7509	5-12-2012	1500	M12	Wed	214 1 617 83 40964	CW	(FN)
7509	12-12-2012	1500	M12	Wed	214 1 480 211 63676	CW	(FN)
7509	12-12-2012	1500	M12	Wed	214 1	CW	(HFD)
7509	19-12-2012	1500	M12	Wed	214 1 793 145 36518	CW	(FN)
7509	26-12-2012	1500	M12	Wed	214 1 439 69 99944	CW	(FN)
7519	21-12-2012	2200	M08a	Fri	IP, missed callups. IP.	CW	(BCI)
7566	27-12-2012	0531	M32a	Thu	Russian Navy Sevastopol "RFH70 DE RCV QTC"	CW	(PPA)
7582	29-11-2012	0027	M89	Thu	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
7582	3-12-2012	0438	M89	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW	(JPL)
7582	4-12-2012	0046	M89	Tue	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW	(JPL)
7582	4-12-2012	0400	M89	Tue	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW	(JPL)
7582	11-12-2012	2347	M89	Tue	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
7582	13-12-2012	0001	M89	Thu	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW	(JPL)
7582	23-12-2012	0104	M89	Sun	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
7582	23-12-2012	0557	M89	Sun	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8040	CW	(JPL)
7584	1-12-2012	0620	M12	Sat	751 000	CW	(FN)
7584	15-12-2012	0620	M12	Sat	751 000	CW	(FN)
7584	22-12-2012	0620	M12	Sat	751 000	CW	(FN)
7602	2-12-2012	1945	M89	Sun	V DKG6 de 3A7D	CW	(JBL)
7602	8-12-2012	1555	M89	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
7602	8-12-2012	1909	M89	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
7602	11-12-2012	1527	M89	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
7602	11-12-2012	1827	M89	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
7602	11-12-2012	2233	M89	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
7602	12-12-2012	0039	M89	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
7602	12-12-2012	1703	M89	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
7602	12-12-2012	2228	M89	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
7602	13-12-2012	1613	M89	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
7602	13-12-2012	2032	M89	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
7602	14-12-2012	1940	M89	Fri	V DKG6 DKG6 DKG6 de 3A7D 3A7D	CW	(FN)
7602	14-12-2012	2042	M89	Fri	V DKG6 DKG6 DKG6 DE 3A7D 3A7D	CW	(PPA)
7602	20-12-2012	1512	M89	Thu	V DKG6 DKG6 DKG6 de 3A7D 3A7D	CW	(FN)
7602	23-12-2012	1759	M89	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
7607	29-11-2012	1131	M89	Thu	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	(JPL)
7607	29-11-2012	1859	M89	Thu	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	(JPL)
7607	3-12-2012	1113	M89	Mon	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
7607	3-12-2012	1509	M89	Mon	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
7607	3-12-2012	2130	M89	Mon	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
7607	6-12-2012	1740	M89	Thu	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
7607	8-12-2012	1916	M89	Sat	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	(JPL)
7607	17-12-2012	1610	M89	Mon	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	(JPL)
7607	17-12-2012	2128	M89	Mon	V WITN (x3) DE GNXG (x2) (Cont'd) //4590	CW	(JPL)
7607	21-12-2012	2013	M89	Fri	V WITN (x3) DE GNXG (x2) (Cont'd) //3724	CW	(JPL)
7654	26-12-2012	0702	V13	Wed	New Star in progress	USB	(AB-HK)
7654	26-12-2012	0800	V13	Wed	New Star #4. Tune + messages	USB	(AB-HK)
7654	28-12-2012	0704	V13	Fri	New Star in progress	USB	(AB-HK)
7654	31-12-2012	0805	V13	Mon	New Star in progress	USB	(AB-Sib)

Freq.	date	UTC	enigma	day	remarks	mode	contributor
7679	6-12-2012	0716	M32	Thu	Russian Mil. c/s PMTR	CW	(BCI)
7688	1-12-2012	1216	V13	Sat	in progress	USB	(AB-HK)
7688	10-12-2012	0600	V13	Mon	New Star. Tune + msgs	USB	(AB-HK)
7688	24-12-2012	1300	V13	Mon	New Star. Barely audible	USB	(AB-HK)
7688	26-12-2012	0500	V13	Wed	New Star. Tune + messages	USB	(AB-HK)
7688	26-12-2012	0600	V13	Wed	New Star. Tune + messages	USB	(AB-HK)
7688	28-12-2012	0605	V13	Fri	New Star in progress	USB	(AB-HK)
7688	28-12-2012	1309	V13	Fri	New Star i progress	USB	(AB-HK)
7688	31-12-2012	0600	V13	Mon	New Star. Tune + coded messages	USB	(AB-HK)
7688	31-12-2012	1308	V13	Mon	New Star in progress	USB	(AB-Sib)
7697	5-12-2012	0757	M42a	Wed	TQSV: Russian HFDF station. "3K VVV 3K"	CW	(BCI)
7716.4	18-12-2012	0030	EGY	Tue	MFA Cairo	SITOR-A / Co-dan9001	(DK8OK)
7779.5	26-11-2012	0833	M32		CIS Mil. c/s ZDV6	CW	(BCI)
7780	26-12-2012	0740	UMv	Wed	Very busy Ukrainian Mil net. Active most of the day. Stations include: PLUTON-01 (female), RUSAK-57 (male) . Calling to YAKOR-29, SEVAN-23, OLIVA-24, PASEKA-85, BYLYNA-89 (male voice)	USB	(AB/Q/Tom)
7780	26-12-2012	1008	UMv	Wed	Ukrainian Mil network, ip	USB	(Q-HOL)
7789	27-12-2012	0606	M32	Thu	Russian mil. "DE 8L8V ZJD ZJJ ZHW K"	CW	(PPA)
7821	16-12-2012	1550	M42	Sun	Russian Intel. 4 block message	FSK200/1000	(AnEur)
7824	29-11-2012	0758	M32		CIS Mil. "NKAS NKAS NKAS DE MIF7 MIF7 QTC ZZH"	CW	(BCI)
7874	23-10-2012	0325	RMv		Russian Mil. YL/RR OP-chat "hallo hallo ... 5811 ... rabota-je" into PSK.	USB	(ALF)
7890	26-12-2012	0923	M32	Wed	Russian mil. "SOLA DE 2GHQ QRJ"	CW	(PPA)
7922	29-11-2012	0658	M32		CIS Mil. "35 RPT TL QLN U RPT K DGME QRV K DIN E Z N3M E2"	CW	(BCI)
7931	2-12-2012	2004	M32	Sun	Russian Mil. "...tnk d kci dkci dkci de e1mz e1mz k...tnk 2s9f 2s 9f 2s9f de e 1mz e 1mz k...tnk zt bk zt bk ztbk de e 1mz e 1mz k...tnk"	CW	(Q-HOL)
7931	3-12-2012	1720	M12	Mon	257 1 2129 74 42130	CW	(FN)
7931	3-12-2012	1820	M12	Mon	257 1 8703 66 25151	CW	(FN)
7931	3-12-2012	1820	M12	Mon	257 1	CW	(HFD)
7931	3-12-2012	1920	M12	Mon	257 1 7760 45 94649	CW	(FN)
7931	3-12-2012	1920	M12	Mon	257 1	CW	(HFD)
7931	6-12-2012	1720	M12	Thu	257 1 9807 90 00776	CW	(FN)
7931	6-12-2012	1911	M32	Thu	E1MZ: Russian Mil. SN8K de E1MZ QTC K. E1MZ ... __230 089 = 45_ = __ÄW I____ (stepped on by M12 tuning up) ...RPT AL QLN K.	CW	(MPJ)
7931	6-12-2012	1920	M12	Thu	257 1 3301 46 97385	CW	(FN)
7931	6-12-2012	1920	M12	Thu	257 1 3301 46 97385 65282 ... 15228 16980 0 0 0	CW	(MPJ)
7931	10-12-2012	1720	M12	Mon	257 1 2204 60 44251	CW	(FN)
7931	10-12-2012	1820	M12	Mon	257 1 1140 49 53133	CW	(FN)
7931	10-12-2012	1820	M12	Mon	257 1 1140 49 53133 50094 ... 83805 06561	CW	(MPJ)
7931	10-12-2012	1920	M12	Mon	257 1 7902 82 66854	CW	(FN)
7931	13-12-2012	1720	M12	Thu	257 1 1460 93 46602	CW	(FN)
7931	13-12-2012	1920	M12	Thu	257 1 6264 50 43905	CW	(FN)
7931	17-12-2012	1720	M12	Mon	257 1 2017 72 06323	CW	(FN)
7931	17-12-2012	1820	M12	Mon	257 1 2831 56 75728	CW	(FN)
7931	17-12-2012	1920	M12	Mon	257 1	CW	(FN)
7931	17-12-2012	1920	M12	Mon	257 1 7929 87 56087 94625 ... 78865 69180	CW	(MPJ)
7931	20-12-2012	1720	M12	Thu	257 1 1260 56 91327	CW	(FN)
7931	20-12-2012	1920	M12	Thu	257 1 3697 49 79889	CW	(FN)
7931	20-12-2012	1920	M12	Thu	"257 257 257 1 (R) 3687 49 3687 49 msg 000 000"	CW	(Q-HOL)
7931	24-12-2012	1720	M12	Mon	257 1 2371 70 04967	CW	(FN)
7931	24-12-2012	1820	M12	Mon	257 1 1668 55 63042	CW	(FN)
7931	24-12-2012	1820	M12	Mon	in progress	CW	(Q-HOL)
7931	24-12-2012	1920	M12	Mon	257 1 3107 88 38336	CW	(FN)

Freq.	date	UTC	enigma	day	remarks	mode	contributor
7931	24-12-2012	1920	M12	Mon	257 257 257 1 (R)...000 000	CW	(Q-HOL)
7931	27-12-2012	1720	M12	Thu	257 17591 64 23301	CW	(FN)
7931	27-12-2012	1720	M12	Thu	257 + msg	CW	(MYK)
7931	27-12-2012	1920	M12	Thu	257 1 9124 42 95108	CW	(FN)
7931	27-12-2012	1920	M12	Thu	"257 257 257 1 (R) msg 000 000"	CW	(Q-HOL)
7938	8-12-2012	0819	VC01	Sat	Chinese Robot in progress	USB	(NR)
7938	9-12-2012	0834	VC01	Sun	Chinese Robot in progress	USB	(NR)
7938	22-12-2012	0723	VC01	Sat	Chinese Robot in progress	USB	(AB-Sib)
7938	26-12-2012	0505	VC01	Wed	Chinese Robot in progress. Also at 0612, 0706, 0804, 0902 UTC	USB	(AB-HK)
7938	28-12-2012	0608	VC01	Fri	Chinese Robot in progress. Also at 0706 UTC and 0801 UTC	USB	(AB-HK)
7938	28-12-2012	1325	VC01	Fri	Chinese Robot in progress	USB	(AB-HK)
7938	29-12-2012	0749	VC01	Sat	Chinese Robot in progress	USB	(AB-HK)
7938	31-12-2012	0558	VC01	Mon	Chinese Robot in progress. Also at 0819 UTC and 1944 UTC	USB	(AB-HK)
7968	2-12-2012	1850	M12	Sun	194 000	CW	(FN)
7968	5-12-2012	1850	M12	Wed	194 1 958 231 129*46*	CW	(FN)
7968	9-12-2012	1850	M12	Sun	194 1 958 231 12946	CW	(FN)
7968	9-12-2012	1850	M12	Sun	194 1	CW	(HFD)
7968	9-12-2012	1900	M12		tuned in too late, 19:05:37: 000 000 (EOT)	CW	(FYM)
7968	12-12-2012	1850	M12	Wed	194 000	CW	(FN)
7968	16-12-2012	1850	M12	Sun	194 000	CW	(FN)
7968	21-12-2012	1850	M12	Fri	194 1 194 115 32*7*58	CW	(FN)
7968	23-12-2012	1850	M12	Sun	194 1 194 115 32758	CW	(FN)
7968	23-12-2012	1850	M12	Sun	194 194 194 1 (R) 194 115 194 115 msg 000 000	CW	(Q-HOL)
7968	26-12-2012	1850	M12	Wed	194 1 316 81 11349	CW	(FN)
7968	26-12-2012	1850	M12	Wed	"194 194 194 1 (R) msg 000 000"	CW	(Q-HOL)
7968	30-12-2012	1850	M12	Sun	194 1 316 81 11349	CW	(FN)
7968	30-12-2012	1850	M12	Sun	194 194 194 1 (R) 316 81 316 81 11349 38406 43524...79336 47936 75083 000 000	CW	(Q-HOL)
7969	17-11-2012	0610	M32		Russian Mil "XXX WEGI 94194 OKEANOGRAPH 4968 5336"	CW	(ALF)
7969	6-12-2012	1106	M32	Thu	CIS Mil "yzbj yzbj yzbj de z2h7 z2h7 qtc 48716 6 1502 487 = 452 = tuger mmmmm "	CW	(WP3)
8002	26-11-2012	0906	ALG		Algerian Prefecture "KARIM" wkg "VACATION"	USB	(BCI)
8009	27-12-2012	2218	M08a		AAGUT NARDA WGIBW UNAUG AR AR AR AUUGA AUUGA AUUGA = = =	CW	(FYM)
8016	26-12-2012	2346	M51		5LG's and (sometimes) 5FG's	USB	(FYM)
8016	30-12-2012	2003	M51	Sun	ip, 5fG "...21:13:451984..."	CW	(Q-HOL)
8040	29-11-2012	0015	M89	Thu	906.../0393/.1/.9/0945/32./A/13/18 AR etc. V H2FL (x3) DE DRV8	CW	(JPL)
8040	4-12-2012	0012	M89	Tue	V H2FL (x3) DE DRV8 (x2) (Cont'd) //6773	CW	(JPL)
8040	4-12-2012	0051	M89	Tue	In tfc 4U54 N364 7D.. 7U4. .T4.. //6773	CW	(JPL)
8040	4-12-2012	0405	M89	Tue	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
8040	5-12-2012	2313	M89	Wed	V H2FL (x3) DE DRV8 (x2) (Cont'd) //6773	CW	(JPL)
8040	7-12-2012	2315	M89	Fri	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797 and 4512 and 6773	CW	(JPL)
8040	8-12-2012	0034	M89	Sat	V H2FL (x3) DE DRV8 (x2) (Cont'd) //6773	CW	(JPL)
8040	10-12-2012	0016	M89	Mon	V H2FL (x3) DE DRV8 (x2) (Cont'd) //6773	CW	(JPL)
8040	10-12-2012	0345	M89	Mon	V H2FL (x3) DE DRV8 (x2) (Cont'd) //6773	CW	(JPL)
8040	11-12-2012	2351	M89	Tue	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
8040	12-12-2012	2314	M89	Wed	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512 and 3797 and 6773	CW	(JPL)
8040	13-12-2012	0005	M89	Thu	V H2FL (x3) DE DRV8 (x2) (Cont'd) //6773	CW	(JPL)
8040	13-12-2012	0338	M89	Thu	V H2FL (x3) DE DRV8 (x2) (Cont'd) //6773	CW	(JPL)
8040	13-12-2012	2320	M89	Thu	V H2FL (x3) DE DRV8 (x2) (Cont'd) //6773	CW	(JPL)
8040	18-12-2012	0349	M89	Tue	V H2FL (x3) DE DRV8 (x2) (Cont'd) //6773	CW	(JPL)
8040	22-12-2012	0509	M89	Sat	V H2FL (x3) DE DRV8 (x2) (Cont'd) //6773	CW	(JPL)

Freq.	date	UTC	enigma	day	remarks	mode	contributor
8040	23-12-2012	0110	M89	Sun	V H2FL (x3) DE DRV8 (x2) (Cont'd) //6773	CW	(JPL)
8040	23-12-2012	0611	M89	Sun	V H2FL (x3) DE DRV8 (x2) (Cont'd) //6773	CW	(JPL)
8040	31-12-2012	0825	M89	Mon	V H2FL H2FL H2FL DE DRV8 DRV8	CW	(AB-Sib)
8047	5-12-2012	1700	M12	Wed	463 1 8901 83 56347	CW	(FN)
8047	12-12-2012	1700	M12	Wed	463 1 1142 44 51721	CW	(FN)
8047	19-12-2012	1700	M12	Wed	463 1 1965 62 14714	CW	(FN)
8047	26-12-2012	1700	M12	Wed	463 1 9119 96 18657	CW	(FN)
8073	28-12-2012	1215	MVC03		(badly)hand keyed: fragment: 773357365 4049934473654dt 6773357373 4463	CW	(FYM)
8091	4-12-2012	1045	E11		469/00	USB	(FYM)
8091	11-12-2012	1045	E11	Tue	465/36 31195 07597 ... 17755 09389	USB	(MPJ)
8091	18-12-2012	1045	E11	Tue	469/00	USB	(MPJ)
8091	19-12-2012	1045	E11a		464/34 Attention! 92179 74263 etc	USB	(FYM)
8091	25-12-2012	1045	E11	Tue	YL, EE, 469/00	USB	(Q-HOL)
8091	26-12-2012	1045	E11	Wed	YL, EE, 469/00	USB	(Q-HOL)
8100	28-11-2012	0726	X06c		Mazielka. Sequence: 123456	USB	(BCI)
8101	18-12-2012	0344	M89	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
8110	3-12-2012	0438	M89	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW	(JPL)
8110	4-12-2012	0046	M89	Tue	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW	(JPL)
8110	4-12-2012	0400	M89	Tue	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW	(JPL)
8110	7-12-2012	2349	M89	Fri	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
8110	8-12-2012	0029	M89	Sat	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
8110	13-12-2012	0001	M89	Thu	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW	(JPL)
8110	23-12-2012	0557	M89	Sun	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW	(JPL)
8111	7-12-2012	2330	M89	Fri	In chat: R R QSA 3 K K (see N&O 183)	CW	(JPL)
8111	8-12-2012	0042	M89	Sat	In chat: R R 05 K K (see N&O 183)	CW	(JPL)
8116	30-11-2012	1840	M12	Fri	124 1 5287 100 44432	CW	(FN)
8116	4-12-2012	1910	M12	Tue	124 1 9337 51 67213	CW	(FN)
8116	6-12-2012	1740	M12	Thu	124 1 7604 78 60090	CW	(FN)
8116	6-12-2012	1840	M12	Thu	124 1 3549 72 95542	CW	(FN)
8116	6-12-2012	1840	M12	Thu	124 1	CW	(HFD)
8116	7-12-2012	1840	M12	Fri	124 1 6169 76 73927	CW	(FN)
8116	11-12-2012	1910	M12	Tue	124 1 4906 61 89838	CW	(FN)
8116	11-12-2012	1910	M12	Tue	124 124 124 1 (R) msg[1852z] 000 000	CW	(Q-HOL)
8116	11-12-2012	2000	M01	Tue	197 251 251 30 30//52234 99765 ... 66141 21728//251 251 30 30 0 0 0	CW	(MPJ)
8116	13-12-2012	1740	M12	Thu	124 1 3016 72 39439	CW	(FN)
8116	13-12-2012	1840	M12	Thu	124 1 1026 68 04180	CW	(FN)
8116	14-12-2012	1840	M12	Fri	124 1 2388 95 23274	CW	(FN)
8116	18-12-2012	1910	M12	Tue	124 1 2935 70 92923	CW	(FN)
8116	18-12-2012	1910	M12	Tue	124 1 2935 70 92923 56957 ... 81100 99599	CW	(MPJ)
8116	20-12-2012	1740	M12	Thu	124 1 3293 75 83389	CW	(FN)
8116	20-12-2012	1840	M12	Thu	124 1 9265 44 91098	CW	(FN)
8116	21-12-2012	1840	M12	Fri	124 1 929 51 06204	CW	(FN)
8116	25-12-2012	1910	M12	Tue	124 1 9686 51 62559	CW	(FN)
8116	25-12-2012	1910	M12	Tue	"124 124 124 1 (R)...000 000"	CW	(Q-HOL)
8116	27-12-2012	1740	M12	Thu	124 1 8368 79 28657	CW	(FN)
8116	27-12-2012	1840	M12	Thu	124 1 7526 77 24278	CW	(FN)
8116	27-12-2012	1840	M12	Thu	"124 124 124 1 (R) msg 000 000"	CW	(Q-HOL)
8116	28-12-2012	1840	M12	Fri	124 1 9304 87 71585	CW	(FN)
8121.7	2-12-2012	1944	EGY	Sun	Egyptian Diplo. Traffic unreadable.	SITOR-A	(MPJ)
8164	11-12-2012	1900	XPA	Tue	msg	MFSK	(HFD)
8164	11-12-2012	1900	XPA	Tue	138 138 138 000 (R) 01199 0000 00000 11140	MFSK	(Q-HOL)
8164	13-12-2012	1900	XPA	Thu	138 138 138 000 (R) 09923 1 00000 1014	MFSK	(Q-HOL)
8164	18-12-2012	1900	XPA	Tue	138 138 138 000 138 138 138 000 138 138 138 000 05912 00001 00000 10140	MFSK	(AIK)
8164	18-12-2012	1900	XPA		end at ~19.02.30	F7D	(FYM)

Freq.	date	UTC	enigma	day	remarks	mode	contributor
8164	18-12-2012	1900	XPA	Tue	Polytones numbers station	MFSK	(Q-HOL)
8164	20-12-2012	1900	XPA	Thu	Polytones numbers station	MFSK	(Q-HOL)
8164	25-12-2012	1900	XPA	Tue	138 138 138 1 138 138 138 1 138 138 138 1 666662266262	MFSK	(Q-HOL)
8164	27-12-2012	1900	XPA	Thu	138 138 138 1 138 138 138 1 138 138 138 1 666622262622	MFSK	(Q-HOL)
8193	3-12-2012	1320	M12	Mon	214 1 617 83 40964	CW	(FN)
8193	3-12-2012	1320	M12	Mon	214 1	CW	(HFD)
8193	10-12-2012	1320	M12	Mon	214 1 480 211 63676	CW	(FN)
8193	17-12-2012	1320	M12	Mon	214 1 793 145 36518	CW	(FN)
8193	17-12-2012	1320	M12		214 214 214 1 793 145	CW	(FYM)
8193	17-12-2012	1326	M12	Mon	(ip.)	CW	(FMB)
8193	24-12-2012	1320	M12	Mon	214 1 439 69 99944	CW	(FN)
8193	31-12-2012	1320	M12	Mon	214 214 214 000 (R)	CW	(Q-HOL)
8260	1-12-2012	1210	S06s	Sat	254	USB	(HFD)
8313	16-12-2012	1945	XSL	Sun	Japanese Navy a.k.a. Slot Machine	QPSK 1500bd	(AB-HK)
8314	15-12-2012	1234	XSL		XSL Japanese Navy	F7D	(FYM)
8345	1-12-2012	1205	M32a	Sat	RCJG: Russian Navy Ship Ivan Bubnov "rcv de rcjg 252 18 1 1000 252 = sml for rjh45 rje73 = 01061 99367 10265 41598 51414 10210 40149 57030 70221 85400 22272 00220 20304 88000 01014 = rcjg k"	CW	(WP3)
8345	1-12-2012	1205	M32a	Sat	RMYZ: Russian Navy "rcv de rmyz ...01001 99367 10262 4197 6181 10190 01014 = + rmyz k"	CW	(WP3)
8345	1-12-2012	1205	M32a	Sat	RJT22: Russian Navy "rjt22 99879 diridan 1109 1263 k"	CW	(WP3)
8345	1-12-2012	1205	M32a	Sat	RCJG: Russian Navy Ship Ivan Bubnov "rcv de rcjg 784 18 2 2200 784 = sml fr rjh45 rje73 = 02181 99373 10260 41597 41515 10200 40099 57020 70211 84500 22272 00210 20504 88000 02014 = + rcjg k"	CW	(WP3)
8345	1-12-2012	1205	M32a	Sat	RFH70: Russian Navy "rfh70 99879 diridan 1109 1263 k"	CW	(WP3)
8345	6-12-2012	0605	M32a	Thu	RCJG: Russian Navy Ship Ivan Bubnov "rcv de rcjg 573 18 6 1000 573 = for rjh45 rje73 = 06061 99394 10255 41598 72504 10140 40047 52010 70222 87500 22242 00170 20202 88000 06014 = + rcjg k"	CW	(WP3)
8345	6-12-2012	0611	M32a	Thu	RMYZ: Russian Navy "rcv de rmyz 691 18 6 1010 691 = sml for rje73 rjh45 = 06061 99406 10257 41497 70209 10100 40050 51004 70222 88200 22200 00170 299// 399// 06014 = + rmyz k"	CW	(WP3)
8345	18-12-2012	1825	M32a	Tue	Russian Navy: rit de rko81 469 18 18 2205 469 = for rjh45 rjd38 = 18181 99550 10163 41597 78006 10040 20166 53030 70222 22253 00030 2//// 399// 88000 80000 18016 = + rko81 k	CW	(WP3)
8345	23-12-2012	1215	M32a	Sun	Russian Navy Ship Lena. rmp de rko81 885 20 23 1600 885 = for rjh45 rjh74 rjd38 = 23121 99496 70008 41598 72308 10115 40066 52027 70222 87700 22200 00010 2//// 399// 88000 80000 23016 = + rko81 k	CW	(WP3)
8345	23-12-2012	1808	M32a	Sun	Russian navy tug MB-304. rcv de rmyz 387 17 23 2202 387 = sml for rje73 rjh45 = 23181 99437 10325 41/97 /0205 10045 40230 51000 70222 22212 00095 299// 399// 23014 = + rmyz k	CW	(WP3)
8345	23-12-2012	1816	M32a	Sun	Russian Navy Ship Lena. rmp de rko81 582 20 23 2200 582 = for rjh45 rjh74 rjd38 = 23181 99496 70008 41/97 /2704 10100 40066 54000 72122 8///// 22200 00010 2//// 399// 88000 80000 23016 = + rko81 k	CW	(WP3)
8345	25-12-2012	1804	M32a	Tue	RKO81: Russian Navy Ship Lena. "rit de rko81 410 20 25 2200 410 = for rjh45 rjh74 rjd38 = 25181 99496 70008 41/98 /2412 10100 40019 52036 70222 8///// 22200 00090 2//// 399// 88000 80000 23016 = + rko81 k"	CW	(WP3)
8345	27-12-2012	----	M32a	Thu	RJT22: Russian Navy CG Moskva "16071 kamenen 3805 4584 k"	CW	(WP3)
8345	27-12-2012	----	M32a	Thu	RFH70: Russian Navy DG Smetlivyj "38911 razvog 9506 3874 k"	CW	(WP3)
8345	27-12-2012	----	M32a	Thu	RGZ59: Russian Navy LS Nikolay Filchenkov "38911 razvog 9506 3874 k"	CW	(WP3)
8345	27-12-2012	----	M32a	Thu	RJT22: Russian Navy CG Moskva "24123 bidaik 3055 7359	CW	(WP3)

Freq.	date	UTC	enigma	day	remarks	mode	contributor
					k"		
8345	27-12-2012	----	M32a	Thu	RFH70: Russian Navy DG Smetlivyj "24123 bidaik 3055 7359 k"	CW	(WP3)
8345	27-12-2012	----	M32a	Thu	RGZ59: Russian Navy LS Nikolay Filchenkov "24123 bidaik 3055 7359 k"	CW	(WP3)
8420	31-12-2012	1300	S06	Mon	831 831 831 00000	USB	(AB)
8494.9	24-12-2012	1033	MX	Mon	Beacon "S"	CW	(AB-Sib)
8495.2	24-12-2012	1033	MX	Mon	Beacon "F"	CW	(AB-Sib)
8495.2	31-12-2012	0831	MX	Mon	Beacon "F"	CW	(AB-Sib)
8495.4	24-12-2012	1033	MX	Mon	Beacon "M"	CW	(AB-Sib)
8495.4	31-12-2012	1317	MX	Mon	Beacon "M"	CW	(AB-Sib)
8497.8	29-12-2012	0649	MX	Sat	Beacon "L" St.Petersburg	CW	(PPA)
8497.8	29-12-2012	1030	MX	Sat	Beacon "L" St. Petersburg	CW	(WP3)
8543	29-11-2012	0938	M32		FM1P: CIS Mil. "XXX XXX FM1P FM1P T5184 ANTI ZOZA 16T8 9T38 K"	CW	(BCI)
8588	16-12-2012	1945	XSL	Sun	Japanese Navy a.k.a. Slot Machine	QPSK 1500bd	(AB-HK)
8589	15-12-2012	1235	XSL		XZL Japanese Navy	F7D	(FYM)
8680	1-12-2012	1200	S06s	Sat	254-918 =74537	USB	(HFD)
8703.5	16-12-2012	1945	XSL	Sun	Japanese Navy a.k.a. Slot Machine	QPSK 1500bd	(AB-HK)
8789	3-12-2012	0442	M89	Mon	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
8789	4-12-2012	0018	M89	Tue	In tfc NW SVC 253 8313 6453 QAW K159899 K P 74.. AR HW K NR 6 QSL //10779	CW	(JPL)
8789	4-12-2012	0048	M89	Tue	V WITN (x3) DE GNXG (x2) (Cont'd) //10779	CW	(JPL)
8789	4-12-2012	0402	M89	Tue	V WITN (x3) DE GNXG (x2) (Cont'd) //10779	CW	(JPL)
8789	4-12-2012	0953	M89	Tue	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
8789	4-12-2012	1015	M89	Tue	V WITN (x3) DE GNXG (x2) (Cont'd) //10779	CW	(JPL)
8789	7-12-2012	2305	M89	Fri	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
8789	7-12-2012	2354	M89	Fri	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
8789	8-12-2012	0027	M89	Sat	V WITN (x3) DE GNXG (x2) (Cont'd) //10779	CW	(JPL)
8789	10-12-2012	0347	M89	Mon	V WITN (x3) DE GNXG (x2) (Cont'd) //10779	CW	(JPL)
8789	11-12-2012	2349	M89	Tue	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
8789	13-12-2012	1015	M89	Thu	V WITN (x3) DE GNXG (x2) (Cont'd) //5763	CW	(JPL)
8789	13-12-2012	2329	M89	Thu	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
8789	22-12-2012	0506	M89	Sat	V WITN (x3) DE GNXG (x2) (Cont'd) //10779	CW	(JPL)
8789	23-12-2012	0118	M89	Sun	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
8789	23-12-2012	0603	M89	Sun	V WITN (x3) DE GNXG (x2) (Cont'd)	CW	(JPL)
8789	31-12-2012	0823	M89	Mon	V WITN WITN WITN DE GNXG GNXG	CW	(AB-Sib)
8806	28-12-2012	1203	V24		weak Asian (automated) voice, together with another (English language?) station.	USB	(FYM)
8812	20-12-2012	0930	S06s	Thu	314 280 5 54547 50128 00477 83574 75956	USB	(HS2)
8816	5-12-2012	0928	M32b	Wed	52415: Russian Naval Air Transport "rjf94 rjc38 de 52415 qto 0919 qrd XLAA XLMV qre 1100 qbd 5000 k - qth 6607 3914 qtr 1021 qbg 5200 qre XLAA 1100 k - qqm xlaa 1105 k"	CW	(WP3)
8816	5-12-2012	1215	M32b	Wed	RCB: Russian Naval Air Transport Kaliningrad "90740 de rcb qsa? k"	CW	(WP3)
8816	8-12-2012	0853	M32b	Sat	52416: Russian Naval Air Transport. rjf94 rjc38 de 52416 qth 6647 3316 qtr 0851 qbg 6100 qre XLMV 0935 - qqm XLMV 0935 sk	CW	(WP3)
8816	25-12-2012	0946	M32b	Tue	13004: Russian Naval Air Transport. "rcb rjf94 de 13004 qth 6006 2627 qtr 0945 qah 5800 qal XLLV 1015 qbd 0330 k - qqm XLLV 1020 sk	CW	(WP3)
8816	27-12-2012	0902	M32b	Thu	08202: Russian Naval Air Transport "rjf84 rjc38 de 08202 qth 6413 3504 qtr 0901 qbg 6400 k - qth XLWF 331103 qtr 0955 qbg 5000 k - qqm XLWF 1013 sk"	CW	(WP3)
8816	27-12-2012	1015	M32b	Thu	13004: Russian Naval Air Transport "rjf94 rcb de 13004 qto 1004 qrd XMKK XLLV qah 5500 qbd 0530 - qth 5945 2427 qtr 1100 qah 5500 qbd 0430 - qth 5820 2040 qtr 1145 qah 5500 qal XMKK 1245 qbd 0330"	CW	(WP3)
8816	27-12-2012	1258	M32b	Thu	08202: Russian Naval Air Transport "rjf94 rjc38 de 08202	CW	(WP3)

Freq.	date	UTC	enigma	day	remarks	mode	contributor
					qto 1242 qrd XLMV XLWF qre 1500 qbd 14500 - qth 6328 3533 qtr 1343 qbg 6700 k - qay XLMG 1438 qbg 6400"		
8816	29-12-2012	0823	M32b	Sat	Russian Naval Air Transport "rjf94 rjc38 de 52415 qqm XLMV 0823 sk"	CW	(WP3)
9063	5-12-2012	0756	M08a	Wed		CW	(KC2TTK)
9112	2-12-2012	1016	M08a	Sun	ip, 5f, and text "...= = msg AR AR AR SK"	CW	(Q-HOL)
9124	9-12-2012	0602	SK01	Sun	Tx & dead air; repeating every 5 mintues until...	RDFT	(KC2TTK)
9168	2-12-2012	1830	M12	Sun	194 000	CW	(FN)
9168	5-12-2012	1830	M12	Wed	194 1 958 231 129*46*	CW	(FN)
9168	9-12-2012	1830	M12	Sun	194 1 958 231 12946	CW	(FN)
9168	9-12-2012	1830	M12	Sun	194 1	CW	(HFD)
9168	12-12-2012	1830	M12	Wed	194 000	CW	(FN)
9168	16-12-2012	1830	M12	Sun	194 000	CW	(FN)
9168	21-12-2012	1830	M12	Fri	194 1 194 115 32*7*58	CW	(FN)
9168	23-12-2012	1830	M12	Sun	194 1 194 115 32758	CW	(FN)
9168	23-12-2012	1830	M12	Sun	194 194 194 1 (R) 194 115 194 115 msg 000 000	CW	(Q/MPJ)
9168	26-12-2012	1830	M12	Wed	"...769 79336 47936 5t85 000 000"	CW	(Q-HOL)
9168	30-12-2012	1830	M12	Sun	194 1 316 81 11349	CW	(FN)
9168	30-12-2012	1830	M12	Sun	194 194 194 1 (R) 316 81 316 81 11349 38406 43524...79336 47936 75083 000 000	CW	(Q-HOL)
9170	4-12-2012	1510	S06s	Tue	537	USB	(HFD)
9176	3-12-2012	1700	M12	Mon	257 1 2129 74 42130	CW	(FN)
9176	3-12-2012	1800	M12	Mon	257 1 8703 66 25151	CW	(FN)
9176	3-12-2012	1800	M12	Mon	257 1	CW	(HFD)
9176	3-12-2012	1900	M12	Mon	257 1 7760 45 94649	CW	(FN)
9176	3-12-2012	1900	M12	Mon	257 1	CW	(HFD)
9176	6-12-2012	1700	M12	Thu	257 1 9807 90 00776	CW	(FN)
9176	6-12-2012	1900	M12	Thu	257 1 3301 46 97385	CW	(FN)
9176	6-12-2012	1900	M12	Thu	257 1 3301 46 97385 65282 ... 15228 16980 0 0 0	CW	(MPJ)
9176	10-12-2012	1700	M12	Mon	257 1 2204 60 44251	CW	(FN)
9176	10-12-2012	1800	M12	Mon	257 1 1140 49 53133	CW	(FN)
9176	10-12-2012	1800	M12	Mon	257 1 1140 49 53133 50094 ... 83805 06561	CW	(MPJ)
9176	10-12-2012	1900	M12	Mon	257 1 7902 82 66854	CW	(FN)
9176	13-12-2012	1700	M12	Thu	257 1 1460 93 46602	CW	(FN)
9176	13-12-2012	1900	M12	Thu	257 1 6264 50 43905	CW	(FN)
9176	17-12-2012	1700	M12	Mon	257 1 2017 72 06323	CW	(FN)
9176	17-12-2012	1800	M12	Mon	257 1 2831 56 75728	CW	(FN)
9176	20-12-2012	1700	M12	Thu	257 1 1260 56 91327	CW	(FN)
9176	20-12-2012	1700	M12	Thu	257 1 1260 56 91327 92105 ... 15560 46709	CW	(MPJ)
9176	20-12-2012	1900	M12	Thu	257 1 3697 49 79889	CW	(FN)
9176	20-12-2012	1905	M12	Thu	ip, "... 000 000"	CW	(Q-HOL)
9176	24-12-2012	1700	M12	Mon	257 1 2371 70 04967	CW	(FN)
9176	24-12-2012	1800	M12	Mon	257 1 1668 55 63042	CW	(FN)
9176	24-12-2012	1800	M12	Mon	257 1 1778 55 63042 30662 ... 67930 11965 0 0 0 0 0	CW	(MPJ/Q)
9176	24-12-2012	1900	M12	Mon	257 1 3107 88 38336	CW	(FN)
9176	24-12-2012	1905	M12	Mon	257 257 257 1 (R)...000 000	CW	(Q-HOL)
9176	27-12-2012	1700	M12	Thu	257 17591 64 23301	CW	(FN)
9176	27-12-2012	1900	M12	Thu	257 1 9124 42 95108	CW	(FN)
9176	27-12-2012	1900	M12	Thu	"257 257 257 1 (R)"	CW	(Q-HOL)
9177	17-12-2012	1220	M42	Mon	Russian Intel.	FSK 200/1000	(FMB)
9178	12-12-2012	1222	M42	Wed	Russian Intel. Long message	FSK 200bd/1000	(MCO)
9212	17-12-2012	1313	M51	Mon	(ip.)	CW	(FMB)
9213	2-12-2012	1713	M51	Sun	NR 51 N 28 18:13:44 1984 = PLBCC GFAUT ...	CW	(MPJ)
9213	25-12-2012	1437	M51	Tue	5L blocks	CW	(ML4)
9223	3-12-2012	1300	M12	Mon	214 1 617 83 40964	CW	(FN)
9223	3-12-2012	1300	M12	Mon	214 1	CW	(HFD)
9223	10-12-2012	1300	M12	Mon	214 1 480 211 63676	CW	(FN)

Freq.	date	UTC	enigma	day	remarks	mode	contributor
9223	17-12-2012	1300	M12	Mon	214 1 793 145 36518	CW	(FN)
9223	17-12-2012	1306	M12	Mon	(ip.) ttt ttt	CW	(FMB)
9223	24-12-2012	1300	M12	Mon	214 1 439 69 99944	CW	(FN)
9223	30-12-2012	1300	M12	Sun	214 000	CW	(MPJ)
9234	16-12-2012	1540	M42	Sun	Russian Intel. 4 block message	FSK200/1000	(AnEur)
9260	5-12-2012	0840	S06s		832 506 7, 88280 etc	USB	(FYM)
9260	5-12-2012	0840	S06s	Wed	328-506 =88280	USB	(HFD)
9260	19-12-2012	0840	S06s	Wed	ID 328	USB	(MOR)
9264	30-11-2012	1820	M12	Fri	124 1 ...	CW	(FN)
9264	4-12-2012	1850	M12	Tue	124 1 9337 51 67213	CW	(FN)
9264	6-12-2012	1720	M12	Thu	124 1 7604 78 60090	CW	(FN)
9264	6-12-2012	1820	M12	Thu	124 1 3549 72 95542	CW	(FN)
9264	6-12-2012	1820	M12	Thu	124 1	CW	(HFD)
9264	7-12-2012	1820	M12	Fri	124 1 6169 76 73927	CW	(FN)
9264	11-12-2012	1850	M12	Tue	124 1 4906 61 89838	CW	(FN)
9264	11-12-2012	1850	M12	Tue	124 1 4906 61 89838 60992 ... 10355 15167 0 0 0	CW	(MPJ)
9264	11-12-2012	1850	M12	Tue	124 124 124 1 (R) msg[1852z] 000 000	CW	(Q-HOL)
9264	13-12-2012	1720	M12	Thu	124 1 3016 72 39439	CW	(FN)
9264	13-12-2012	1820	M12	Thu	124 1 1026 68 04180	CW	(FN)
9264	14-12-2012	1820	M12	Fri	124 1 2388 95 23274	CW	(FN)
9264	18-12-2012	1850	M12	Tue	124 1 ...	CW	(FN)
9264	18-12-2012	1850	M12	Tue	124 1 2935 70 92923 56957 ... 81100 99599	CW	(MPJ)
9264	20-12-2012	1720	M12	Thu	124 1 3293 75 83389	CW	(FN)
9264	20-12-2012	1820	M12	Thu	124 1 9265 44 91098	CW	(FN)
9264	21-12-2012	1820	M12	Fri	124 1 929 51 06204	CW	(FN)
9264	21-12-2012	1820	M12		124 124 124 1 929 51	CW	(FYM)
9264	25-12-2012	1850	M12	Tue	124 1 9686 51 62559	CW	(FN)
9264	25-12-2012	1850	M12	Tue	"124 124 124 1 (R)...000 000"	CW	(Q-HOL)
9264	27-12-2012	1720	M12	Thu	124 1 8368 79 28657	CW	(FN)
9264	27-12-2012	1820	M12	Thu	124 1 7526 77 24278	CW	(FN)
9264	28-12-2012	1820	M12	Fri	124 1 9304 87 71585	CW	(FN)
9320	24-12-2012	0046	M22	Mon	4XZ IDF/Israeli Navy Haifa ip	CW	(LG2)
9327	5-12-2012	1910	M12	Wed	938 1 2985 67 62641	CW	(FN)
9327	12-12-2012	1910	M12	Wed	938 1 ...	CW	(FN)
9327	19-12-2012	1910	M12	Wed	938 1 7666 63 84773	CW	(FN)
9327	26-12-2012	1910	M12	Wed	938 1 2501 69 72148	CW	(FN)
9435	19-12-2012	0530	S06s	Wed	153	USB	(HFD)
9446	5-12-2012	0900	E11		534/00	USB	(FYM)
9446	10-12-2012	0900	E11		534/00	USB	(FYM)
9446	12-12-2012	0900	E11a	Wed	532/33 Attention 07371 18495 91227 ... 04549 70794 46152 Out	USB	(Spec)
9446	24-12-2012	0830	E11a		649/30	USB	(FYM)
9446	24-12-2012	0833	E11a	Mon	649/30 attention msg	USB	(AB)
9446	26-12-2012	0900	E11	Wed	534/00	USB	(AB)
9610	4-12-2012	1020	S11a		426/00	USB	(FYM)
9610	7-12-2012	1120	S11a		426/00	USB	(FYM)
9610	21-12-2012	1022	S11a	Fri	426/00	USB	(PPA)
9820	6-12-2012	0810	E17z	Thu	674 298 5 18276 35667 09816 78193 95123 298 5 00000	USB	(Spec)
9820	13-12-2012	0810	E17z	Thu	674 298 5 18276 35667 09816 78193 95123 298 5 00000	USB	(Spec)
9820	20-12-2012	0810	E17z	Thu	674 208 5 53754 42788 64580 61284 16159 208 5 00000	USB	(Spec)
9820	27-12-2012	0810	E17z	Thu	674 208 5 53754 42788 64580 61284 16159 208 5 00000	USB	(Spec)
10176	10-12-2012	1213	---		5FG's Part of the sequence: 61834 92746 85364 74546 49058 86474 84657 87564 89034 76845 35640. Sounds like hand keyed	CW	(FYM)
10180	3-12-2012	1115	M89	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
10180	4-12-2012	0413	M89	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
10180	4-12-2012	0413	M89	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)

Freq.	date	UTC	enigma	day	remarks	mode	contributor
10180	4-12-2012	0947	M89	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
10180	4-12-2012	1012	M89	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
10180	8-12-2012	0336	M89	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
10180	8-12-2012	1141	M89	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
10180	10-12-2012	0352	M89	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
10180	13-12-2012	0312	M89	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
10180	13-12-2012	1013	M89	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
10180	22-12-2012	0516	M89	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
10180	23-12-2012	0608	M89	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
10225	21-12-2012	1558	V30	Fri	First transmission	USB	(AB-USA)
10225	21-12-2012	1610	V30	Fri	Second transmission	USB	(AB-USA)
10225	21-12-2012	1614	V30	Fri	Third transmission	USB	(AB-USA)
10228.4	1-12-2012	1410	DPRK	Sat	North Korean diplo	DPRK-ARQ 1200/1400	(PPA)
10255	14-12-2012	1600	V30		Lady calling numbers, ba, bahm, num, bo, hi , kong,.	USB	(FYM)
10255	14-12-2012	1602	V30	Fri	Asian number station	USB	(AB)
10320	26-12-2012	1513	V22	Wed	Beijing calling. Message 58. Number 06. 105 words/groups. 4FGs	USB	(linkz)
10343	4-12-2012	1830	M12	Tue	124 1 9337 51 67213	CW	(FN)
10343	4-12-2012	1830	M12	Tue	124 1 9337 51 67213 81289 ... 60884 80085	CW	(MPJ)
10343	6-12-2012	1700	M12	Thu	124 1 7604 78 60090	CW	(FN)
10343	6-12-2012	1800	M12	Thu	124 1 3549 72 95542	CW	(FN)
10343	6-12-2012	1800	M12	Thu	124 1	CW	(HFD)
10343	7-12-2012	1800	M12	Fri	124 1 6169 76 73927	CW	(FN)
10343	11-12-2012	1830	M12	Tue	124 1 ...	CW	(FN)
10343	13-12-2012	1700	M12	Thu	124 1 3016 72 39439	CW	(FN)
10343	13-12-2012	1800	M12	Thu	124 1 1026 68 04180	CW	(FN)
10343	14-12-2012	1800	M12	Fri	124 1 2388 95 23274	CW	(FN)
10343	18-12-2012	1830	M12	Tue	124 1 2935 70 92923	CW	(FN)
10343	20-12-2012	1700	M12	Thu	124 1 3293 75 83389	CW	(FN)
10343	20-12-2012	1800	M12	Thu	124 1 9265 44 91098	CW	(FN)
10343	21-12-2012	1800	M12	Fri	124 1 929 51 06204	CW	(FN)
10343	25-12-2012	1830	M12	Tue	124 1 9686 51 62559	CW	(FN)
10343	25-12-2012	1830	M12	Tue	"124 124 124 1 (R)...000 000"	CW	(Q-HOL)
10343	27-12-2012	1700	M12	Thu	124 1 8368 79 28657	CW	(FN)
10343	27-12-2012	1800	M12	Thu	124 1 ...	CW	(FN)
10343	28-12-2012	1800	M12	Fri	124 1 9304 87 71585	CW	(FN)
10345	16-12-2012	0600	HM01	Sun	Mixed V02a/SK01 messages	AM/RDFT	(NR)
10375	28-12-2012	1605	M97		K K K 50 50 then 5FG's like 68475 60683 24692 10162 etc. Ends with KKKKKKK followed by next msg AAAAAAAA sd77 kkk sd77 kkk sd77 kkk ht ht sn80 sn80 sn80 03027 etc	CW	(FYM)
10388	20-12-2012	0824	M32a	Thu	RFH61: Russian navy ship wkg RIW	CW	(PPA)
10405	20-12-2012	0818	M42	Thu	Russian diplo	CROWD-36	(PPA)
10442	17-12-2012	1032	M32	Mon	XXX XXX MFBH MFBH 73492 POLUGRUDA 4309 6596 TOLAJ 3975 7785	CW	(JU)
10543	20-12-2012	0846	M32a	Thu	Russian Navy "RBE86 DE RCV QTC 564 38 17 1540 564 ="	CW	(PPA)
10598	5-12-2012	1850	M12	Wed	938 1 2985 67 62641	CW	(FN)
10598	12-12-2012	1850	M12	Wed	938 1 ...	CW	(FN)
10598	19-12-2012	1850	M12	Wed	938 1 7666 63 84773	CW	(FN)
10598	26-12-2012	1850	M12	Wed	938 1 2501 69 72148	CW	(FN)
10635	3-12-2012	1310	S06s		831 259 5	A3E	(FYM)
10635	31-12-2012	1310	S06	Mon	831 831 831 00000	USB	(AB/Q-HOL)
10635	31-12-2012	1310	S06s	Mon	831 00000	USB	(saber)
10640	4-12-2012	1020	M89	Tue	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	CW	(JPL)
10690	8-12-2012	1400	E11a	Sat	952/10 Attention 36233 85314 66749 57426 66123 68948 44762 70708 07172 09273 Out	USB	(Spec)
10711	3-12-2012	1640	M12	Mon	546 1 7314 90 78360	CW	(FN)

Freq.	date	UTC	enigma	day	remarks	mode	contributor
10711	10-12-2012	1640	M12	Mon	546 1 133 49 49118	CW	(FN)
10711	10-12-2012	1640	M12	Mon	546 1 133 49 49118 37904 ... 85241 82837 0 0 0 0 0	CW	(MPJ)
10711	17-12-2012	1640	M12	Mon	546 1 929 51 06204	CW	(FN)
10711	24-12-2012	1640	M12	Mon	546 1 6100 79 22491	CW	(FN)
10715	21-12-2012	2200	HM01	Fri	5FG + RDFT data. IP. No decode	AM	(BCI)
10715	26-12-2012	2243	HM01		carrier relatively strong, audio/envelope weak, relatively long period between 5LG's (like: 85106) which are followed by a tone.	A3E	(FYM)
10779	4-12-2012	0018	M89	Tue	In tfc NW SVC 253 8313 6453 QAW K159899 K P 74.. AR HW K NR 6 QSL //8789	CW	(JPL)
10779	4-12-2012	0048	M89	Tue	V WITN (x3) DE GNXXG (x2) (Cont'd) //8789	CW	(JPL)
10779	4-12-2012	0402	M89	Tue	V WITN (x3) DE GNXXG (x2) (Cont'd) //8789	CW	(JPL)
10779	4-12-2012	1015	M89	Tue	V WITN (x3) DE GNXXG (x2) (Cont'd) //8789	CW	(JPL)
10779	7-12-2012	2354	M89	Fri	V WITN (x3) DE GNXXG (x2) (Cont'd)	CW	(JPL)
10779	8-12-2012	0027	M89	Sat	V WITN (x3) DE GNXXG (x2) (Cont'd) //8789	CW	(JPL)
10779	10-12-2012	0347	M89	Mon	V WITN (x3) DE GNXXG (x2) (Cont'd) //8789	CW	(JPL)
10779	13-12-2012	0003	M89	Thu	V WITN (x3) DE GNXXG (x2) (Cont'd)	CW	(JPL)
10779	18-12-2012	0342	M89	Tue	V WITN (x3) DE GNXXG (x2) (Cont'd)	CW	(JPL)
10779	22-12-2012	0506	M89	Sat	V WITN (x3) DE GNXXG (x2) (Cont'd) //8789	CW	(JPL)
10800	4-12-2012	1045	E11		576/00	USB	(FYM)
10800	11-12-2012	1045	E11a	Tue	571/38 Attention 30933 43756 51200 ... 33592 04234 12120 Out	USB	(Spec)
10800	25-12-2012	1045	E11	Tue	576/00	USB	(Q-HOL)
10920	6-12-2012	1210	S06s	Thu	425	USB	(HFD)
10984	8-12-2012	0950	M32a	Sat	RIW: Russian Navy. qso rf70 after coord on 12464	CW	(WP3)
11107	17-12-2012	1210	M42	Mon	Russian Intel.	FSK 200/1000	(FMB)
11109	12-12-2012	1213	M42	Wed	Russian Intel. Long message	FSK 200bd/1000	(MCO)
11121	1-12-2012	2001	E07	Sat	ip, OM, EE, "124 124 124 000"	USB	(Q-HOL)
11121	22-12-2012	0900	E07a	Sat	124 0	USB	(HFD)
11170	6-12-2012	0800	E17z	Thu	674 298 5 18276 35667 09816 78193 95123 298 5 00000	USB	(Spec)
11170	13-12-2012	0800	E17z	Thu	operator: "otvet'te? v cht500 gotovy rabotat?? rabotayte v cht500, dayte korrektsiyu, zhdite moyu, kak ponyali?...rabotayet.. followed by 674 298 5 58276 35667 09856 78593 95523 298 5 00000	USB	(Avare)
11170	13-12-2012	0800	E17z	Thu	674 298 5 18276 35667 09816 78193 95123 298 5 00000	USB	(Spec)
11170	20-12-2012	0800	E17z	Thu	674 208 5 53754 42788 64580 61284 16159 208 5 00000	USB	(Spec)
11170	27-12-2012	0800	E17z	Thu	674 208 5 53754 42788 64580 61284 16159 208 5 00000	USB	(Spec)
11198.4	1-12-2012	1259	DPRK	Sat	North Korean diplo in calling mode with series of 5 data-burst	DPRK ARQ 600/600	(PPA)
11354	19-12-2012	1645	M32b	Wed	08185 An-12 Russian Naval Air clg PRIBOY. Passed point PEMAG (Sibir region) FL250 Fuel 11t	CW	(ASh)
11354	19-12-2012	1754	M32b	Wed	08185 An-12 Russian Naval Air landed at Ekaterinburg Fuel 9t.	CW	(ASh)
11415	5-12-2012	0850	S06s		832 506 7 idem	USB	(FYM)
11415	5-12-2012	0850	S06s	Wed	328	USB	(HFD)
11435	5-12-2012	1830	M12	Wed	938 1 ...	CW	(FN)
11435	12-12-2012	1830	M12	Wed	938 1 ...	CW	(FN)
11435	19-12-2012	1830	M12	Wed	938 1 ...	CW	(FN)
11435	26-12-2012	1830	M12	Wed	938 1 2501 69 72148	CW	(FN)
11489	16-12-2012	1530	M42	Sun	Russian Intel. 4 block message	FSK200/1000	(AnEur)
11530	21-12-2012	2314	HM01		weak... female voice calling numbers, followed by a tone	AM/RD	(FYM)
11566	3-12-2012	1620	M12	Mon	546 1 7314 90 78360	CW	(FN)
11566	10-12-2012	1620	M12	Mon	546 1 133 49 49118	CW	(FN)
11566	17-12-2012	1620	M12	Mon	546 1 929 51 06204	CW	(FN)
11566	24-12-2012	1620	M12	Mon	546 1 6100 79 22491	CW	(FN)
11635	21-12-2012	2100	HM01	Fri	5FGs and RDFT data	AM	(BCI)
12155	6-12-2012	1200	S06s	Thu	425-803 =09394	USB	(HFD)
12155	27-12-2012	1200	S06s	Thu	425 837 6 24035 47115 24151 51802 23807 84116 837 6	USB	(MYK)

Freq.	date	UTC	enigma	day	remarks	mode	contributor
					00000		
12162	3-12-2012	1600	M12	Mon	546 1 7314 90 78360	CW	(FN)
12162	10-12-2012	1600	M12	Mon	546 1 133 49 49118	CW	(FN)
12162	10-12-2012	1600	M12	Mon	546 1 133 49 49118 37904 ... 85241 82837 0 0 0 0 0 0	CW	(MPJ)
12162	17-12-2012	1600	M12	Mon	546 1 929 51 06204	CW	(FN)
12162	24-12-2012	1600	M12	Mon	546 1 6100 79 22491	CW	(FN)
12207	7-12-2012	1355	X06c		Mazielka 6-tone 215346	USB	(FYM)
12217	1-12-2012	1440	XPA2	Sat	completed at 1443	MFSK	(Token)
12221	22-12-2012	0920	E07a	Sat	124 0	USB	(HFD)
12365	5-12-2012	1000	S06s		carrier up earlier. 729 863 5	USB	(FYM)
12464	1-12-2012	1205	M32a	Sat	RCJG: Russian Navy Ship Ivan Bubnov "rcv de rcjg 518 18 30 1600 518 = sml for rjh45 rje73 = 30121 99347 10295 41598 41606 10230 40178 57010 70221 84200 22272 00230 20000 88000 30014 = + rcjg k"	CW	(WP3)
12464	1-12-2012	1205	M32a	Sat	RCJG: Russian Navy Ship Ivan Bubnov "rcv de rcjg 138 18 3 1600 138 = sml for rjh45 rje73 = 03121 99402 10256 41998 12409 10180 40036 57030 70210 81000 22212 00180 20302 88000 03014 = + rcjg k")	CW	(WP3)
12464	6-12-2012	0818	M32a	Thu	RIS96: Russian Navy "riw de ris96 qsa3 k - ok qap k - qsu1 qwh 12260 qsx 13086 k"	CW	(WP3)
12464	6-12-2012	0818	M32a	Thu	RAL59: Russian Navy "riw de ral59 qsu1"	CW	(WP3)
12464	6-12-2012	0820	M32a	Thu	RFH71: Russian Navy "rcv de rfh71"	CW	(WP3)
12464	6-12-2012	1215	M32a	Thu	RIS96: Russian Navy "riw de ris96 qsa3 k - ok qap k - qsu1 qwh 12260 qsx 13086 k"	CW	(WP3)
12464	6-12-2012	1215	M32a	Thu	RAL59: Russian Navy "riw de ral59 qsu1"	CW	(WP3)
12464	6-12-2012	1215	M32a	Thu	RMYZ: Russian Navy "rcv de rmyz 191 18 6 1600 191 = sml for rje73 rjh45 = 06121 99407 10250 41497 41104 10110 40050 51000 70122 84200 22222 00170 299// 3999/ 06014 = + rmyz k"	CW	(WP3)
12464	6-12-2012	1215	M32a	Thu	RFH71: Russian Navy "rcv de rfh71"	CW	(WP3)
12464	6-12-2012	1215	M32a	Thu	RCJG: Russian Navy Ship Ivan Bubnov "rcv de rcjg 197 18 6 1600 197 = sml for rjh45 rje73 = 06121 99385 10253 41498 72404 10140 40047 54000 70222 87400 22232 00180 20000 88000 06014 = + rcjg k"	CW	(WP3)
12464	8-12-2012	0715	M32a	Sat	RCJG: Russian Navy Ship Ivan Bubnov. rcv de rcjg ok qru k	CW	(WP3)
12464	8-12-2012	0720	M32a	Sat	RFH70: Russian Navy. rcv de rfh70 qyt4 qmo k qyt4 qwh 10492 k qyt4 qwh 8384 k qyt4 qls k qyt4 qwh 11429 k qyt4 qsx 9192/10984 k ok qyt4 qcm k	CW	(WP3)
12464	8-12-2012	0720	M32a	Sat	RMYZ: Russian Navy. rcv de rmyz 313 19 8 1307 313 = sml = 16116 73857 90115 18330 ... 08017 = + rmyz k	CW	(WP3)
12464	8-12-2012	0915	M32a	Sat	RJT22: Russian Navy. rcv de rjt22 for rmyz qsu1 k	CW	(WP3)
12464	8-12-2012	1000	M32a	Sat	RBEG: Russian Navy. riw de rbeg confirming msg fm raa then riw de rbeg sk 1002z - rbeg 849 51 8 1144 849 = fm raa = 80325 43182 13746 78491 ...	CW	(WP3)
12464	8-12-2012	1215	M32a	Sat	RMYZ: Russian Navy. rcv de rmyz 313 18 8 1600 313 = sml for rje73 rjh45 = 08121 99403 10253 41497 51611 10120 40140 56003 70222 86301 22272 00170 299// 399// 08014 = + rmyz k	CW	(WP3)
12464	10-12-2012	0752	M32a	Mon	RJL99: Russian Navy. rmp de rjl99 qsu1 qsa? k	CW	(WP3)
12464	12-12-2012	0826	M32a	Wed	RDND: Russian Navy. riw de rdnd ok qrr3 qdw 10540 k - riw de rdnd qrr3 qdw 10540 qyd4 k - riw de rdnd qrr3 qyd6 - 0842z ok qrr3 sk	CW	(WP3)
12464	23-12-2012	1202	M32a	Sun	Russian Navy Ship Ivan Bubnov. rcv de rcjg 187 18 23 1600 187 = sml for rjh45 rje73 = 23121 99367 10263 41497 83611 10110 40121 54000 70222 88200 22200 00160 20403 88000 23014 = + rcjg k	CW	(WP3)
12464	23-12-2012	1202	M32a	Sun	Russian Navy Ship Ivan Bubnov. rcv de rcjg 187 18 23 1600 187 = sml for rjh45 rje73 = 23121 99367 10263 41497 83611 10110 40121 54000 70222 88200 22200 00160 20403 88000 23014 = + rcjg k	CW	(WP3)
12464	23-12-2012	1230	M32a	Sun	Russian Navy tug MB-304. rcv de rmyz 688 18 23 1600 688 = sml for rje73 rjh45 = 23121 99433 10320 41497 80206	CW	(WP3)

Freq.	date	UTC	enigma	day	remarks	mode	contributor
					10054 40250 51000 70222 88203 22211 00095 299// 399// 23014 = + rmyz k		
12464	27-12-2012	----	M32a	Thu	RCJG: Russian Navy Ship Ivan Bubnov "78680 sbodworog 0470 5134 k"	CW	(WP3)
12464	27-12-2012	----	M32a	Thu	RJT22: Russian Navy CG Moskva "11408 natäpka 0647 7817 k"	CW	(WP3)
12464	27-12-2012	----	M32a	Thu	RIR96: Russian Navy "01408 natäpka 0647 7817 k"	CW	(WP3)
12464	27-12-2012	----	M32a	Thu	RFH70: Russian Navy DG Smetlivyj "78680 sbodworog 0470 5134 k"	CW	(WP3)
12464	27-12-2012	----	M32a	Thu	RCJG: Russian Navy Ship Ivan Bubnov "01408 natäpka 0647 7817 k"	CW	(WP3)
12464	27-12-2012	----	M32a	Thu	RCJG: Russian Navy Ship Ivan BubnovRUS 1341 CW 84239 tanagra 8971 5900 k"	CW	(WP3)
12464	27-12-2012	----	M32a	Thu	RJT22: Russian Navy CG Moskva "95147 remontnik 1675 3240 k"	CW	(WP3)
12464	27-12-2012	----	M32a	Thu	RCJG: Russian Navy Ship Ivan Bubnov "95147 remontnik 1675 3240 k"	CW	(WP3)
12464	27-12-2012	----	M32a	Thu	RGZ59: Russian Navy LS Nikolay Filchenkov "95147 remontnik 1675 3240 k"	CW	(WP3)
12464	27-12-2012	----	M32a	Thu	RFH70: Russian Navy DG Smetlivyj "95147 remontnik 1675 3240 k"	CW	(WP3)
12464	27-12-2012	----	M32a	Thu	RJT22: Russian Navy CG Moskva RUS 1340 CW 84239 tanagra 8971 5900 k"	CW	(WP3)
12464	27-12-2012	----	M32a	Thu	RJT22: Russian Navy CG Moskva "78680 sbodworog 0470 5134 k"	CW	(WP3)
12464	27-12-2012	----	M32a	Thu	RFH70: Russian Navy DG Smetlivyj RUS 1341 CW 84239 tanagra 8971 5900 k"	CW	(WP3)
12464	30-12-2012	1041	M32a	Sun	RIR96: Russian Navy "rcv de rir96 411 16 30 1437 411 = for rje73 rjh45 = 30111 99350 10355 41998 13202 10290 40219 52010 70200 81001 22251 00190 29911 30013 = + rir96 k"	CW	(WP3)
12530	3-12-2012	1015	S11a		475/00	USB	(FYM)
12530	6-12-2012	1005	S11a		carrier up, at 1015 message: more likely to be 575/00 than 475/00	H3E	(FYM)
12530	13-12-2012	1015	S11a	Thu	221/00	USB	(AB)
12530	24-12-2012	1015	S11a	Mon	475/00	USB	(AB)
12530	31-12-2012	1015	S11a	Mon	YL, 272/00	USB	(Q-HOL)
12530.1	10-12-2012	1015	S11a		475/00 after 14 secs	USB	(FYM)
12707	25-12-2012	0912	M32	Tue	Russian mil. "3YTS DE CNED QTC 204 22 25 1304 204 = 085 = PPPPP"	CW	(PPA)
12854	21-12-2012	0806	M32	Fri	N2FJ: Russian military "QTC 701 26 21 1150 701 = ZIF020 ="	CW	(PPA)
12952	20-12-2012	0900	S06s	Thu	167 298 5 34929 75293 57457 66476 54374	USB	(HS2)
13471	18-12-2012	1207	M42	Tue	Russian Intel.	FSK 200/1000	(LG2)
13473	17-12-2012	1200	M42	Mon	Russian Intel.	FSK 200/1000	(FMB)
13521	16-12-2012	0920	M42	Sun	Russian Intel. 12 block message	FSK200/1000	(AnEur)
13527	14-12-2012	1144	MX	Fri	Russian Navy Beacon C Moscow	CW	(LG2)
13527.7	14-12-2012	1144	MX	Fri	Russian Navy Beacon D Odessa/Sevastapol	CW	(LG2)
13527.8	14-12-2012	1144	MX	Fri	Russian Navy Beacon P Kaliningrad	CW	(LG2)
13561	16-12-2012	1120	M42	Sun	Russian Intel. 12 block message	FSK200/1000	(AnEur)
13565	20-12-2012	0910	S06s	Thu	167 298 5 34929 75293 57457 66476 54374	USB	(HS2)
13569	20-12-2012	1010	M12	Thu	582 000	CW	(FN)
13569	23-12-2012	1010	M12	Sun	582 000	CW	(FN)
13569	27-12-2012	1010	M12	Thu	582 1 571 67 78600	CW	(FN)
13569	30-12-2012	1010	M12	Sun	582 1 571 67 78600	CW	(FN)
13910	7-12-2012	0600	E06	Fri	923 567 104 80051 72595 48926 ... 30707 91293 65351 567 104 00000	AM	(Avare)
13910	20-12-2012	0600	E06	Thu	923-567 04=80051	AM	(HFD)
13994.1	7-12-2012	1052	---	Fri	NXR708 Unid ip coded text	CW	(LG2)
14280	19-12-2012	1010	S06s		729 416 5	A3E	(FYM)

Freq.	date	UTC	enigma	day	remarks	mode	contributor
14410	30-11-2012	1110	E11		(Preamble missed) 47583 52009 ... 51615 59060	USB	(MPJ)
14410	3-12-2012	1110	E11a		952/31, with interfering rtty, 1st group 15872	USB	(FYM)
14410	7-12-2012	1110	E11a		weak with mulipath, 956/32 (rpt) Attention! 95040 etc	USB	(FYM)
14410	7-12-2012	1110	E11a	Fri	956/32 95047 97631 ... 61492 17062	USB	(MPJ)
14410	10-12-2012	1110	E11a	Mon	952/31 47107 65417 ... 91996 44317	USB	(MPJ)
14410	14-12-2012	1110	E11a		weak and multipath 958/51 or 958/31.	USB	(FYM)
14410	17-12-2012	1110	E11a	Mon	974/38 67898 60301 ... 88848 43742	USB	(MPJ)
14410	17-12-2012	1110	E11a	Mon	954/38 Attention 67898 60301 39369 ... 13216 88848 43742 Out	USB	(Spec)
14410	21-12-2012	1110	E11	Fri	958/31 57072 00623 ... 57072 00623	USB	(MPJ)
14410	24-12-2012	1115	E11a	Mon	952/36 attention 34638 64145 78954 ... 21813 28365	USB	(AB-IT)
14410	24-12-2012	1120	E11	Mon	YL, EE, unreadable	USB	(Q-HOL)
14410	31-12-2012	1110	E11a	Mon	954/40 attention 5FGs	USB	(AB/Q-HOL)
14410	31-12-2012	1110	E11a		very weak and with multipath: 952/20 or 954/40	USB	(FYM)
14410.1	10-12-2012	1110	E11a		952/31 47107 6541? 74781 etc , multipath audible	USB	(FYM)
14446.4	12-12-2012	1511	OLO-32	Wed	IVSU, hex offline crypto text	SITOR-A 100bd/170	(MCO)
14650	20-12-2012	1229	X06	Thu	Mazielka. Sequence: 215346	USB	(HS2)
14863	28-12-2012	1206	X06	Fri	Mazielka. Sequence: 615243	USB	(HS2)
14869	20-12-2012	1030	M12	Thu	582 000	CW	(FN)
14869	23-12-2012	1030	M12	Sun	582 000	CW	(FN)
14869	27-12-2012	1030	M12	Thu	582 1 571 67 78600	CW	(FN)
14869	30-12-2012	1030	M12	Sun	582 1 571 67 78600	CW	(FN)
14968	12-12-2012	1500	M42	Wed	Russian Intel. Tfc on USB	45 tone OFDM modem	(MCO)
15632	3-12-2012	1540	E11	Mon	228/00	USB	(MPJ)
15632	5-12-2012	1155	E11		718/00, also multipath audible	USB	(FYM)
15632	6-12-2012	1155	E11a	Thu	711/32 93640 94460 ... 35670 74378.	USB	(MPJ)
15632	12-12-2012	1155	E11a	Wed	716/33 Attention 85239 35060 00602 ... 23247 13977 15251 Out	USB	(Spec)
15632	16-12-2012	1540	E11	Sun	228/00	USB	(Q-HOL)
15632	17-12-2012	1540	E11	Mon	228/00	USB	(HFD)
15632	20-12-2012	1155	E11	Thu	716/30 10753 83892 ... 48947 08452	USB	(MPJ)
15632	20-12-2012	1155	E11a	Thu	716/30 Attention 10753 83894 78248 ... 43360 48947 08452 Out	USB	(Spec)
15632	26-12-2012	1155	E11	Wed	YL, EE, 718/00	USB	(Q-HOL)
15721	27-12-2012	0400	S06	Thu	5FGs	USB	(NC)
15861	20-12-2012	1041	S06	Thu	99323 (R2) 030(R3)	AM	(HS2)
15904	16-12-2012	0910	M42	Sun	Russian Intel. 12 block message	FSK200/1000	(AnEur)
15926	16-12-2012	1110	M42	Sun	Russian Intel. 12 block message	FSK200/1000	(AnEur)
15940	20-12-2012	0700	E06	Thu	923	AM	(HFD)
16070	11-12-2012	1210	XPA2	Tue		MFSK	(MYK)
16112	11-12-2012	0745	E11	Tue	335/00	USB	(HFD)
16112	13-12-2012	0745	E11	Thu	335/00	USB	(Avare)
16123	12-12-2012	1458	M42	Wed	Russian Intel. Tfc on USB	45 tone OFDM modem	(MCO)
16180	1-12-2012	2000	V02a	Sat	"Atención ...17754, 477746, 353810 ..."	AM	(RLB)
16180	8-12-2012	2000	V2A	Sat	5FGs	AM	(skx)
16180	8-12-2012	2040	V2A	Sat	Attencion 38182 42421 35642	AM	(skx)
16180	25-12-2012	2140	HM01	Tue	in progress 2140, ended around 2155. Alternating one voice group with same in RDFT	AM/RDFT	(HS)
16180	29-12-2012	2147	HM01	Sat	in progress	AM/RDFT	(HS)
16269	13-12-2012	0947	M12	Thu	i.p.	CW	(FN)
16269	27-12-2012	1050	M12	Thu	582 1 571 67 78600	CW	(FN)
16269	30-12-2012	1050	M12	Sun	582 1 571 67 78600	CW	(FN)
16331.9	24-12-2012	1034	MX	Mon	Beacon "S"	CW	(AB)
16332	18-12-2012	1217	MX	Tue	Russian Navy Beacon C Moscow	CW	(LG2)
16332	24-12-2012	1034	MX	Mon	Beacon "C"	CW	(AB)

Freq.	date	UTC	enigma	day	remarks	mode	contributor
16332	27-12-2012	1037	MX	Thu	Russian Navy Beacon "C" Moscow	CW	(LG2)
16341.7	10-12-2012	1423	EGY	Mon	Egyptian diplo. Selcal KKXD-unknown embassy.	SITOR-A	(MPJ)
16731.7	27-12-2012	1027	MX	Thu	Russian Navy Beacon "D" Odessa/Sevastapol	CW	(LG2)
17423	11-12-2012	1200	XPA2	Tue		MFSK	(MYK)
17430	26-12-2012	0301	V22	Wed	CC, YL, 4F	USB	(Token)
17430	26-12-2012	0401	V22	Wed	CC, YL, 4F	USB	(Token)
17480	1-12-2012	2140	V02a	Sat	5fg in progress. No 9s, ended "Final Final Final" at 2145. Immediately began new callup "Atencion 31232-44561-57082," cut after a few repetitions, dropped carrier at 2148.	AM	(HS)
17481	16-12-2012	0900	M42	Sun	Russian Intel. 12 block message	FSK200/1000	(AnEur)
17481	16-12-2012	1100	M42	Sun	Russian Intel. 12 block message	FSK200/1000	(AnEur)
17540	1-12-2012	2204	V02a	Sat	5fg in progress. No 9s. Heard subsequent message pre-amble groups "44561" at 2215, "57082" at 2228, so undoubtedly the same message aired briefly on 17480. "Final Final Final" at 2241, one "Atencion," then hummy carrier which dropped at 2242.	AM	(HS)
17700	1-12-2012	0740	EV01	Sat	In progress.	USB	(PanDR)
18290	12-12-2012	1339	M42	Wed	Russian Intel. Tfc on USB	45 tone OFDM modem	(MCO)
18436.4	13-12-2012	1252	OLO-32	Thu	IVSU, hex offline crypto tfc Czech Intel, Prague	SITOR-A 100/170	(MCO)
18520	26-12-2012	0202	V22	Wed	CC, YL, 4F	USB	(Token)
18520	26-12-2012	0231	V22	Wed	CC, YL, 4F	USB	(Token)
18763	26-12-2012	1051	M32	Wed	Russian Strategic Operational Command, i.p. "9381T 94215 K"	CW	(LG2)
19201	6-12-2012	1215	M32a	Thu	RCV: Russian Navy Sevastopol "rmyz interrupted with xxx xxx rjv rjv 88743 siwoduoka 8274 3083" ack by rcjg and rmyz	CW	(WP3)
19209	27-12-2012	1259	M32	Thu	Russian Strategic Operational Command. "XXX XXX WEGI WEGI 2716 R 75178 OKSID 5029 2152 K"	CW	(LG2)
19260	25-12-2012	0155	V22	Tue	"Beijing calling" in progress + message.	USB	(NC/Token)
19260	25-12-2012	0210	V22	Tue	Null message	USB	(Token)
19260	25-12-2012	0235	V22	Tue	Message	USB	(Token)
19260	27-12-2012	0210	V22	Thu	Repeated at least once but transmitter seems to have problems.	USB	(NC)
19305	12-12-2012	1339	M42	Wed	Russian Intel. Tfc on USB	45 tone OFDM modem	(MCO)
20006.5	4-12-2012	0920	DPRK	Tue	North Korean diplo	DPRK-ARQ 600/600	(BCI)
20047.7	3-12-2012	1402	MX	Mon	Beacon "D" Sevastopol	CW	(SW2)
20047.7	18-12-2012	1314	MX	Tue	Russian Navy Beacon D Odessa/Sevastapol	CW	(LG2)
20047.7	24-12-2012	1034	MX	Mon	Beacon "D"	CW	(AB)
20047.7	29-12-2012	1308	MX	Sat	Beacon "D"	CW	(ML4)
20047.9	3-12-2012	1400	MX	Mon	Beacon "S" Sevoromorsk	CW	(SW2)
20047.9	24-12-2012	1034	MX	Mon	Beacon "S"	CW	(AB)
20048	3-12-2012	1359	MX	Mon	Beacon "C" Moscow	CW	(SW2)
20048	18-12-2012	1314	MX	Tue	Russian Navy Beacon C Moscow	CW	(LG2)
20048	24-12-2012	1034	MX	Mon	Beacon "C"	CW	(AB)
20048	29-12-2012	1308	MX	Sat	Beacon "C"	CW	(ML4)
20048.1	24-12-2012	1034	MX	Mon	Beacon "A"	CW	(AB)
20315	13-12-2012	1325	EGY	Thu	"33314" Egyptian Embassy, Abidjan tfc to "99907" MFA Cairo	Codan 9001/3012 16 tone HF mo-dem	(MCO)
21000	10-11-2012		SDN		MFA Khartoum calling Sudanese embassy Yemen for Pactor 1 traffic, whistling, male persons	USB	(IARUMS)
21002.1	10-11-2012		SDN		MFA Khartoum encrypted traffic to Sudanese embassy Yemen	Pactor-1 100/170	(IARUMS)
21438	2-11-2012	0755	M32a		Russian Navy. "RIP90 DE RCV QTC 371 34 31 1541 371 = "	CW	(IARUMS)
21438	10-11-2012	0802	M32a		Russian Navy. "RBE86 DE RCV nawip"	CW	(IARUMS)
21438	10-11-2012	0806	M32a		Russian Navy. "RFH70 DE RCV QYT4 QSX 13648 K"	CW	(IARUMS)

Freq.	date	UTC	enigma	day	remarks	mode	contributor
21438	10-11-2012	0858	M32a		Russian Navy. "RIP90 DE RCV QTC 371 34 31 1541 371 ="	CW	(IARUMS)
21438	10-11-2012	0902	M32a		Russian Navy. "RBE86 DE RCV QTC 503 27 26 0101 503 ="	CW	(IARUMS)
21438	15-11-2012	0804	M32a		Russian Navy. "RBE86 DE RCV QTC 526 30 13 1131 526 ="	CW	(IARUMS)
21438	21-11-2012	0938	M32a		Russian Navy. "RIP90 de RCV" and RCV wkg RBE84, RIP90, RFH70, RFH71, RJT11, RJT22	CW	(IARUMS)
21438	21-11-2012	0957	M32a		Russian Navy. "RJT22 DE RCV QYT9 QSX 8398 QCM K"	CW	(IARUMS)
21438	22-11-2012	0810	M32a		Russian Navy. "RIP90 DE RCV QTC 431 30 21 0324 431 ="	CW	(IARUMS)
22323.5	4-12-2012	0910	DPRK	Tue	North Korean diplo	DPRK-ARQ 600/600	(BCI)

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2012 index

Edition	Subject	Article
172	General	Announcements of radio shows and documents
172	Intelligence	Intelligence profile: Mozambique
172	Logs	Logs section
172	Morse stations	M01 transcripts
172	Morse stations	M03
172	Morse stations	M08a
172	Morse stations	M12 transcripts
172	Morse stations	M18
172	Morse stations	M21
172	Morse stations	M22 new frequencies
172	Morse stations	M31
172	Morse stations	M32 flash messages and extended fleet report
172	Morse stations	M51 transcripts

Edition	Subject	Article
172	Morse stations	M89
172	Morse stations	MC03
172	Morse stations	MX
172	Utility Round-up	Atom Alarm
172	Utility Round-up	Chinese SIGINT sites
172	Utility Round-up	North Korea Google Earth Project
172	Utility Round-up	Pirates: Italian pirate
172	Utility Round-up	Taiwanese SIGINT sites
172	Utility Round-up	Unid 3K net (now M42a)
172	Utility Round-up	Unid beacon
172	Various modes	M42 logs
172	Various modes	SK01
172	Various modes	X06 logs
172	Various modes	XP family transcripts
172	Voice stations	E06 transcripts
172	Voice stations	E07 / E07a transcripts
172	Voice stations	E11 / E11a transcripts
172	Voice stations	E17z transcripts
172	Voice stations	E25 / E15a transcripts
172	Voice stations	EV01 profile
172	Voice stations	G06 transcripts
172	Voice stations	G11 transcripts
172	Voice stations	S06 / S06s transcripts
172	Voice stations	S11a transcripts
172	Voice stations	S21 transcripts
172	Voice stations	S28 family transcripts
172	Voice stations	S28 transcripts
172	Voice stations	S30 profile and transcripts
172	Voice stations	S32 transcripts
172	Voice stations	S6930 transcripts
172	Voice stations	V02a
172	Voice stations	V13 transmitter site picture
172	Voice stations	V21
172	Voice stations	VC01
172	Voice stations	VC03
173	General	Radio shows
173	Intelligence	Intelligence profile: Kazakhstan
173	Intelligence	Intelligence profile: Tajikistan
173	Logs	Logs section
173	Morse stations	M01 transcripts
173	Morse stations	M03 transcripts
173	Morse stations	M08a schedules
173	Morse stations	M12 transcripts
173	Morse stations	M21 transcripts
173	Morse stations	M22 new frequencies
173	Morse stations	M24
173	Morse stations	M31
173	Morse stations	M32 transcripts
173	Morse stations	M32a transcripts
173	Morse stations	M32b transcripts
173	Morse stations	M32c transcripts
173	Morse stations	M51
173	Morse stations	M89 transcripts
173	Morse stations	M97 transcripts
173	Morse stations	MC03 transcripts
173	Morse stations	MX
173	Morse stations	V24 + M94 schedules and notes

Edition	Subject	Article
173	Utility Round-up	Beacons
173	Utility Round-up	Unid Indonesian net on 14277.7 kHz
173	Various modes	Cuban diplo logs
173	Various modes	Egyptian diplo logs
173	Various modes	M42 logs, recordings, notes
173	Various modes	North Korean diplo logs
173	Various modes	OLO32 logs
173	Various modes	SK01 schedules
173	Various modes	X06 logs
173	Various modes	XP family transcripts
173	Various modes	XSL
173	Voice stations	E06 transcripts
173	Voice stations	E07 / E07a transcripts
173	Voice stations	E11 / E11a transcripts
173	Voice stations	E17z transcripts
173	Voice stations	E25 transcripts
173	Voice stations	G06 transcripts
173	Voice stations	G11 transcripts
173	Voice stations	S06 / S06c / S06s transcripts
173	Voice stations	S11a transcripts
173	Voice stations	S28 transcripts
173	Voice stations	S30 transcripts
173	Voice stations	S32 transcripts
173	Voice stations	S5292 transcripts
173	Voice stations	S5426 transcripts
173	Voice stations	S7930 transcripts
173	Voice stations	V02a notes, schedules and transcripts
173	Voice stations	V07 schedules
173	Voice stations	V13 schedules
173	Voice stations	V24 + M94 schedules and notes
173	Voice stations	VC01
174	General	Anna Chapman and Fandiction websites
174	General	Books sale
174	General	Historic recordings
174	General	M43 profile announcement
174	General	S28 profile announcement
174	Intelligence	Intelligence profile: Azerbaijan
174	Intelligence	Intelligence profile: Georgia
174	Logs	Logs section
174	Morse stations	M03 transcripts
174	Morse stations	M0a transcripts
174	Morse stations	M12
174	Morse stations	M14 transcripts
174	Morse stations	M18 transcripts
174	Morse stations	M21 transcripts
174	Morse stations	M22 transcripts and QSL card
174	Morse stations	M23 logs and transcripts
174	Morse stations	M32 transcripts
174	Morse stations	M32 WEGI info, flash messages
174	Morse stations	M32a fleet info and transcripts
174	Morse stations	M32b transcripts
174	Morse stations	M32c transcripts
174	Morse stations	M32d transcripts
174	Morse stations	M45 transcripts
174	Morse stations	M51
174	Morse stations	M76 transcripts
174	Morse stations	M89 transcripts

Edition	Subject	Article
174	Morse stations	M97
174	Morse stations	MX
174	Utility Round-up	Beacon X9Q
174	Utility Round-up	Jammers
174	Utility Round-up	Unid "LXU" on 6925 kHz
174	Utility Round-up	Unid 3K net (now M42a)
174	Utility Round-up	Unid numbers station on 2964 kHz
174	Utility Round-up	Unid Russian stations
174	Various modes	Egyptian diplo logs
174	Various modes	M42 logs
174	Various modes	North Korean diplo logs
174	Various modes	OLO32 logs
174	Various modes	X06 logs
174	Various modes	XP family transcripts
174	Various modes	XSL
174	Voice stations	E06 transcripts
174	Voice stations	E07 / E07a transcripts
174	Voice stations	E11 / E11a transcripts
174	Voice stations	E17z transcripts
174	Voice stations	E25 transcripts
174	Voice stations	EV01 transcripts
174	Voice stations	G06 transcripts
174	Voice stations	G11 transcripts
174	Voice stations	S06 / S06s transcripts
174	Voice stations	S11a alphabet and transcripts
174	Voice stations	S21 transcripts
174	Voice stations	S28 sister stations (now RMv) transcripts
174	Voice stations	S28 transcripts
174	Voice stations	S30 station info and transcripts
174	Voice stations	S32 transcripts
174	Voice stations	S5292 transcripts
174	Voice stations	S5426 transcripts
174	Voice stations	S6930 transcripts
174	Voice stations	V07 transcripts
174	Voice stations	V13 schedules
174	Voice stations	V21
174	Voice stations	VC01
175	General	KGB/GRU SIGINT stations Linksmakalnis and Garliava
175	General	RIVET decoder
175	Intelligence	Intelligence profile: Kyrgystan
175	Intelligence	Intelligence profile: Moldova
175	Intelligence	Intelligence profile: Uzbekistan
175	Logs	Logs section
175	Morse stations	M01 transcripts
175	Morse stations	M08a schedules
175	Morse stations	M14 transcripts
175	Morse stations	M32 transcripts
175	Morse stations	M32a transmitter site and transcripts
175	Morse stations	M32b transcripts
175	Morse stations	M32c transcripts
175	Morse stations	M45 transcripts
175	Morse stations	M51 transcripts
175	Morse stations	M89 transcripts
175	Morse stations	M94 schedules
175	Morse stations	M97 transcripts
175	Morse stations	MX
175	Utility Round-up	Beacons: PRV and C

Edition	Subject	Article
175	Utility Round-up	Carabinieri logs
175	Utility Round-up	Jammers: Chinese Firedrake
175	Utility Round-up	Time signal station OK0EPB
175	Utility Round-up	Titanic event
175	Utility Round-up	Unid "3X"
175	Utility Round-up	Unid "Happy Yuri Gagarin Day"
175	Utility Round-up	Unid "L2MU"
175	Utility Round-up	Unid Arabic station
175	Utility Round-up	Unid beacon "E"
175	Utility Round-up	Unid pips
175	Utility Round-up	Unid sounder
175	Utility Round-up	Unid. Presumed Argentine military
175	Various modes	Egyptian diplo logs
175	Various modes	M42 logs
175	Various modes	North Korean diplo logs
175	Various modes	X06 logs
175	Various modes	XP family. New variant + frequencies
175	Various modes	XSL
175	Voice stations	E06 transcripts
175	Voice stations	E07 / E07a transcripts
175	Voice stations	E10 "By way of deception"
175	Voice stations	E11 / E11a transcripts
175	Voice stations	E17z transcripts
175	Voice stations	E25 transcripts
175	Voice stations	EV01
175	Voice stations	G06 transcripts
175	Voice stations	G11 transcripts
175	Voice stations	S06 / S06s transcripts
175	Voice stations	S11a transcripts
175	Voice stations	S21 transcripts
175	Voice stations	S28 news and transcripts
175	Voice stations	S30 transcripts
175	Voice stations	S32 transcripts
175	Voice stations	S5426 transcripts
175	Voice stations	S6930 transcripts
175	Voice stations	V02a transmitter site and schedules
175	Voice stations	V13 new schedules
175	Voice stations	V24 schedules
175	Voice stations	VC01
176	Intelligence	Intelligence profile: Estonia
176	Intelligence	Intelligence profile: Lithuania
176	Intelligence	Intelligence profile: Turkmenistan
176	Logs	Logs section
176	Morse stations	M01 transcripts
176	Morse stations	M03 transcripts
176	Morse stations	M12 transcripts
176	Morse stations	M18 transcripts
176	Morse stations	M21
176	Morse stations	M32 transcripts
176	Morse stations	M32a transcripts
176	Morse stations	M32b transcripts
176	Morse stations	M89 transcripts
176	Morse stations	MC03
176	Morse stations	MX
176	Utility Round-up	Armed Forces Day
176	Utility Round-up	Carabinieri logs
176	Utility Round-up	Military voice loop

Edition	Subject	Article
176	Utility Round-up	Unid Indonesian net on 14277.7 kHz
176	Various modes	Egyptian diplo logs
176	Various modes	M42 logs
176	Various modes	North Korean diplo logs
176	Various modes	X06 logs
176	Various modes	XP family transcripts
176	Voice stations	E06 transcripts
176	Voice stations	E07 / E07a transcripts
176	Voice stations	E11 transcripts
176	Voice stations	E25 transcripts
176	Voice stations	EV01
176	Voice stations	G11 transcripts
176	Voice stations	S06 transcripts
176	Voice stations	S28 transcripts
176	Voice stations	S5292 transcripts
176	Voice stations	S5425 transcripts
176	Voice stations	S6930 transcripts
176	Voice stations	V13 schedules
176	Voice stations	V26
176	Voice stations	VC01
177	General	Sergey passed away
177	Intelligence	Intelligence news items
177	Intelligence	Intelligence profile: Finland
177	Intelligence	Intelligence profile: Norway
177	Intelligence	Intelligence profile: Sweden
177	Logs	Logs section
177	Morse stations	M18
177	Morse stations	M21 + M21b
177	Morse stations	M24
177	Morse stations	M32 transcripts
177	Morse stations	M32a transcripts
177	Morse stations	M32b transcripts
177	Morse stations	M32c transcripts
177	Morse stations	M45 transcripts
177	Morse stations	M89 transcripts
177	Morse stations	M97
177	Morse stations	MC03
177	Morse stations	MX
177	Utility Round-up	Carabinieri logs
177	Utility Round-up	Pirates: Italian pirate
177	Utility Round-up	Time signal station Ital Cable
177	Utility Round-up	Unid Chinese station
177	Various modes	Egyptian diplo logs
177	Various modes	M42 logs
177	Various modes	North Korean diplo logs
177	Various modes	OLO32 logs
177	Various modes	SK01 new mode
177	Various modes	Sudanese diplo logs
177	Various modes	X06 logs
177	Various modes	XM
177	Various modes	XSL
177	Voice stations	E06 transcripts
177	Voice stations	E07 / E07a transcripts
177	Voice stations	E11 / E11a transcripts
177	Voice stations	E17z transcripts
177	Voice stations	E25 transcripts
177	Voice stations	G06 transcripts

Edition	Subject	Article
177	Voice stations	G11 transcripts
177	Voice stations	S06 transcripts
177	Voice stations	S11a transcripts
177	Voice stations	S21 transcripts
177	Voice stations	S28 transcripts
177	Voice stations	S30 transcripts
177	Voice stations	S32 transcripts
177	Voice stations	V13 schedules
177	Voice stations	V16 logs and info
177	Voice stations	VC01
178	Intelligence	Intelligence news items
178	Intelligence	Intelligence profile: Bangladesh
178	Intelligence	Intelligence profile: Fiji
178	Intelligence	Intelligence profile: Singapore
178	Logs	Logs section
178	Morse stations	M12
178	Morse stations	M14
178	Morse stations	M18
178	Morse stations	M21 + M21c
178	Morse stations	M32 transcripts
178	Morse stations	M32a transcripts
178	Morse stations	M32b transcripts
178	Morse stations	M32c transcripts
178	Morse stations	M51 transcripts
178	Morse stations	M89 transcripts
178	Morse stations	MX
178	Utility Round-up	Jammers: Ethiopia, Vietnam, China, North Korea
178	Utility Round-up	Pirates: Italian pirate
178	Utility Round-up	Satellites: Fitsat-1
178	Utility Round-up	Time signal station Ital Cable
178	Various modes	Czech MFA
178	Various modes	Egyptian diplo logs
178	Various modes	M42 logs
178	Various modes	X06 logs
178	Various modes	XSL
178	Voice stations	E11c transcripts
178	Voice stations	E25 transcripts
178	Voice stations	G06 transcripts
178	Voice stations	Other Russian military stations (now RMv)
178	Voice stations	S28 transcripts
178	Voice stations	S30 transcripts
178	Voice stations	S5292 transcripts
178	Voice stations	V13 full transmission recording
178	Voice stations	VC01
179	Intelligence	Intelligence news items
179	Intelligence	Intelligence profile: Chile
179	Intelligence	Intelligence profile: Nicaragua
179	Intelligence	Intelligence profile: Venezuela
179	Logs	Logs section
179	Morse stations	M01 / M01b
179	Morse stations	M03 transcripts
179	Morse stations	M12
179	Morse stations	M14
179	Morse stations	M21 historic documents
179	Morse stations	M22
179	Morse stations	M23 transcripts
179	Morse stations	M32 transcripts

Edition	Subject	Article
179	Morse stations	M32a transcripts
179	Morse stations	M32b transcripts
179	Morse stations	M32c transcripts
179	Morse stations	M45
179	Morse stations	M89 transcripts
179	Morse stations	M97
179	Morse stations	MC03 transcripts
179	Morse stations	MX
179	Utility Round-up	Beacons: PRV, SK6RUD
179	Utility Round-up	Chinese military
179	Utility Round-up	Jammers: film by Rimantas Pleikys
179	Utility Round-up	Jammers: Vietnam, Ethiopia
179	Utility Round-up	Pirate with coded messages
179	Utility Round-up	Pirates: Italian pirate
179	Utility Round-up	Unid net
179	Utility Round-up	Unid numbers station
179	Utility Round-up	Unid: ANT testing
179	Utility Round-up	Unid: Continuous dots
179	Utility Round-up	Unid: EYA31 wkg RTH62
179	Utility Round-up	Unid: LZBO
179	Utility Round-up	Unid: time announcements "next minute is 40" in Morse
179	Various modes	Egyptian diplo logs
179	Various modes	M42 logs
179	Various modes	M42a new designator + logs
179	Various modes	North Korean diplo logs
179	Various modes	X06 logs
179	Various modes	XSL
179	Voice stations	E06 transcripts
179	Voice stations	E07 / E07a transcripts
179	Voice stations	E11 / E11a / E11c transcripts
179	Voice stations	E17z transcripts
179	Voice stations	E25 transcripts
179	Voice stations	EV01
179	Voice stations	G06 transcripts
179	Voice stations	G11 transcripts
179	Voice stations	S06 / S06s transcripts
179	Voice stations	S11a transcripts
179	Voice stations	S21 transcripts
179	Voice stations	S28 transcripts and parasitic transmissions
179	Voice stations	S30 transcripts
179	Voice stations	S32 transcripts
179	Voice stations	V02a
179	Voice stations	V13
179	Voice stations	V16
179	Voice stations	VC01
180	General	New designators
180	Intelligence	Intelligence news items
180	Intelligence	Intelligence profile: Afghanistan
180	Intelligence	Intelligence profile: New Zealand
180	Intelligence	Intelligence profile: Saudi Arabia
180	Logs	Logs section
180	Morse stations	M01 transcripts
180	Morse stations	M03 transcripts
180	Morse stations	M08a profile
180	Morse stations	M12 transcripts
180	Morse stations	M14 transcripts

Edition	Subject	Article
180	Morse stations	M18 transcripts
180	Morse stations	M21
180	Morse stations	M23 transcripts
180	Morse stations	M32 transcripts
180	Morse stations	M32a transcripts
180	Morse stations	M32b transcripts
180	Morse stations	M32c transcripts
180	Morse stations	M45 transcripts
180	Morse stations	M51 transcripts
180	Morse stations	M89 transcripts
180	Morse stations	M97
180	Morse stations	MX
180	Utility Round-up	Jammers: Vietnam
180	Utility Round-up	Pirates: Buzzer clone
180	Utility Round-up	Pirates: E06/G06/S06 pirate
180	Utility Round-up	Unid 10-minutes net
180	Utility Round-up	Unid: EYA31 identified
180	Utility Round-up	Unid: LZBO identified
180	Utility Round-up	Unid: pip on 5207 kHz
180	Various modes	Egyptian diplo logs
180	Various modes	M42 logs and transcripts
180	Various modes	North Korean diplo logs
180	Various modes	X06 logs
180	Various modes	XP family
180	Various modes	XSL
180	Voice stations	E06 transcripts
180	Voice stations	E07 / E07a transcripts
180	Voice stations	E11 / E11a / E11c transcripts
180	Voice stations	E17z transcripts
180	Voice stations	E25
180	Voice stations	EV01
180	Voice stations	G06 transcripts
180	Voice stations	G11 transcripts
180	Voice stations	RADv transcripts
180	Voice stations	RMv transcripts
180	Voice stations	S06 / S06s transcripts
180	Voice stations	S11a transcripts
180	Voice stations	S21
180	Voice stations	S28 transcripts
180	Voice stations	S6930 transcripts
180	Voice stations	UADv
180	Voice stations	V13
180	Voice stations	V26
180	Voice stations	VC01
181	Intelligence	Intelligence profile: Austria
181	Intelligence	Intelligence profile: Germany
181	Intelligence	Intelligence profile: Spain
181	Intelligence	Picture of two FSB and FSO sites
181	Intelligence	Pictures of Dutch SIGINT station Schefferkamp
181	Logs	Logs section
181	Morse stations	M01 / M01b transcripts
181	Morse stations	M03 transcripts
181	Morse stations	M12 transcripts
181	Morse stations	M14 transcripts
181	Morse stations	M18 transcripts
181	Morse stations	M21
181	Morse stations	M23 transcripts

Edition	Subject	Article
181	Morse stations	M24 transcripts
181	Morse stations	M32 transcripts
181	Morse stations	M32a transcripts
181	Morse stations	M32b transcripts
181	Morse stations	M32c transcripts
181	Morse stations	M51 transcripts
181	Morse stations	M89 transcripts
181	Morse stations	M97 transcripts
181	Morse stations	MX
181	Utility Round-up	Pirates: Echo One
181	Utility Round-up	Russian taxi's
181	Utility Round-up	Unid pip on 5207 kHz
181	Utility Round-up	Unid: 6XI3
181	Various modes	Egyptian diplo logs
181	Various modes	Indian diplo logs
181	Various modes	M42 logs
181	Various modes	M42a logs
181	Various modes	North Korean diplo logs
181	Various modes	Unid Chinese net. Frequencies and transcripts
181	Various modes	X06 logs
181	Various modes	XP family transcripts
181	Various modes	XSL
181	Voice stations	E06 transcripts
181	Voice stations	E07 / E07a transcripts
181	Voice stations	E11 / E11a / E11c transcripts
181	Voice stations	E25
181	Voice stations	G06 transcripts
181	Voice stations	G11 transcripts
181	Voice stations	RADv transcripts
181	Voice stations	RMv transcripts
181	Voice stations	S06 / S06s
181	Voice stations	S11a transcripts
181	Voice stations	S21 transcripts
181	Voice stations	S28 transcripts
181	Voice stations	S30 transcripts
181	Voice stations	S6930 transcripts
181	Voice stations	V13 new schedules + transmitter site
181	Voice stations	V26
181	Voice stations	VC01
182	General	New designator HM01
182	Intelligence	Intelligence profile: U.S.A.
182	Intelligence	Intelligence profile: United Kingdom
182	Logs	Logs section
182	Morse stations	M01 transcripts
182	Morse stations	M03 transcripts
182	Morse stations	M12 transcripts
182	Morse stations	M14 and M45 linked?
182	Morse stations	M18 transcripts
182	Morse stations	M21 transcripts
182	Morse stations	M32 transcripts
182	Morse stations	M32a transcripts
182	Morse stations	M32b transcripts
182	Morse stations	M32c transcripts
182	Morse stations	M51
182	Morse stations	M89 transcripts
182	Morse stations	M95
182	Morse stations	MVC03 transcripts

Edition	Subject	Article
182	Morse stations	MX
182	Utility Round-up	Pirates: Italian pirate
182	Utility Round-up	Unid "FB2VITOR" on 6640 kHz
182	Utility Round-up	Unid 10-minutes net
182	Utility Round-up	Unid digital mode
182	Utility Round-up	Unid Korean or Chinese station
182	Utility Round-up	Unid net on 8062 kHz
182	Utility Round-up	Unid on 6772.6 kHz
182	Utility Round-up	Unid station calling "India India"
182	Utility Round-up	Unid. Possibly Algerian National Garde
182	Utility Round-up	Unid: 9Z2P
182	Utility Round-up	Unid: Papa callsigns
182	Utility Round-up	Unid: Unid Chinese signals
182	Various modes	Egyptian diplo logs
182	Various modes	HM01
182	Various modes	M42 logs
182	Various modes	North Korean diplo logs
182	Various modes	Pakistani Intelligence logs
182	Various modes	Unid Chinese net. Logs and transcripts
182	Various modes	X06 logs
182	Various modes	XP family
182	Voice stations	E06 transcripts
182	Voice stations	E07 / E07a transcripts
182	Voice stations	E11 / E11a / E11c transcripts
182	Voice stations	E25 transcripts
182	Voice stations	G06 transcripts
182	Voice stations	G11 transcripts
182	Voice stations	RMv transcripts
182	Voice stations	S06 / S06s transcripts
182	Voice stations	S11a transcripts
182	Voice stations	S21 transcripts
182	Voice stations	S28 transcripts. S28 on various frequencies
182	Voice stations	S30 transcripts
182	Voice stations	S32 transcripts
182	Voice stations	S6930 transcripts
182	Voice stations	UMv transcripts
182	Voice stations	V13
182	Voice stations	V16
182	Voice stations	V24
182	Voice stations	VC01
183	Intelligence	Intelligence profile: Australia
183	Logs	Logs section
183	Morse stations	M01 transcripts
183	Morse stations	M03 transcripts
183	Morse stations	M12 transcripts
183	Morse stations	M14 transcripts
183	Morse stations	M18 transcripts
183	Morse stations	M21
183	Morse stations	M32 transcripts
183	Morse stations	M32a transcripts
183	Morse stations	M32b transcripts
183	Morse stations	M32c transcripts
183	Morse stations	M41 transcripts
183	Morse stations	M89 transcripts
183	Morse stations	MX
183	Utility Round-up	Beacons: unid ditte beacons
183	Utility Round-up	Jammers: China, North Korea

Edition	Subject	Article
183	Utility Round-up	Polish Air Force net
183	Utility Round-up	Unid 10-minutes net
183	Utility Round-up	Unid: NXR708
183	Various modes	Algerian diplo logs
183	Various modes	Egyptian diplo logs
183	Various modes	HM01
183	Various modes	M42 logs
183	Various modes	M42a logs
183	Various modes	North Korean diplo logs
183	Various modes	OLO32 logs
183	Various modes	SK01
183	Various modes	Sudanese diplo logs
183	Various modes	X06 logs
183	Various modes	XP family transcripts
183	Various modes	XSL
183	Voice stations	E06 transcripts
183	Voice stations	E07 /E07a transcripts
183	Voice stations	E11 / E11a / E11c transcripts
183	Voice stations	E17z transcripts
183	Voice stations	E25 transcripts
183	Voice stations	EV01
183	Voice stations	G06 transcripts
183	Voice stations	G11 transcripts
183	Voice stations	RAv transcripts
183	Voice stations	RMv transcripts
183	Voice stations	S06 / S06s transcripts
183	Voice stations	S11a transcripts
183	Voice stations	S28 transcripts. S28 on various frequencies
183	Voice stations	S30 transcripts
183	Voice stations	S32 transcripts
183	Voice stations	UMv transcripts
183	Voice stations	V13
183	Voice stations	V22 is back
183	Voice stations	V24
183	Voice stations	V26
183	Voice stations	V30
183	Voice stations	VC01

All information in this newsletter was submitted by independent radio monitors or has been obtained from public available sources and public sites on the web. Wherever data was obtained via the web or elsewhere, references and/or links to these sources have been noted.

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Utility DXers Forum (utility and spooks related logs)

To become a member go to <http://groups.yahoo.com/group/udxf/> and follow the instructions.

Website: <http://www.udxf.nl>

Spooks (spooks related info and logs)

Go to the web interface <http://mailman.gth.net/mailman/listinfo/spooks> to subscribe. Fill in the form and follow the instructions that will be mailed to you.