

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
667	43298	65656	56756	56123	32143	14321	32143	14321	321
71	02787	58765	76587	58765	76587	58765	76587	58756	765
75476	76543	58765	36543	58765	36543	58765	36543	58765	587

Numbers & Oddities

a.k.a. The Spooks Newsletter

Edition #184, January 2013

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>

Hello and welcome to the 184th edition of Numbers & Oddities. You'll find the usual bunch of logs and transcripts here and an interesting item from Leif about the digital counterpart of E11 et Cie.

I told you last month that the Australian Intelligence Profile would be the last one of this series. Well, that is not the case. With some help I have now 19 new ones on the shelf. This month the focus is on the Caribbean with profiles of Barbados, Bahamas, Dominican Republic and Jamaica. I hope that you will enjoy them.

New designator: EV02 – US military voice loops

Thanks to everyone who submitted logs, transcripts and info.

VOICE STATIONS



E06

4836 kHz, 03-01, 2030 UTC: Up with single 321 silence 321 silence 836 15
26857 10285 18362 91037 17263 98716 18375 29472 19372 28374
19200 37284 57263 19877 22202
836 15 00000

4760 kHz, 04-01, 2130 UTC: 472 177 15
4760 kHz, 18-01, 2130 UTC: 72685 15482 37255 17456 27485 38250 17382 37462 54838 18338
74525 18364 52783 15374 15374
177 15 00000

4836 kHz, 17-01, 2030 UTC: 321 836 15
26857 10285 18362 51037 16268 93716 18375 29472 19372 28374
19200 37284 57263 19377 22202
836 15 00000



E07

6777 kHz, 03-01, 2110 UTC: 744 427 62
5449 kHz, 03-01, 2130 UTC: 88215 01276 24258 85410 49269 15348 66788 40863 47385 18082
4483 kHz, 03-01, 2150 UTC: 65827 56069 32279 10822 16095 10212 10021 27533 30111 03606
56112 20895 19133 73871 24176 20703 39738 33154 21905 23391
33992 42977 12652 25836 53262 41026 89236 69376 15520 84950
29005 36610 14867 12321 23942 12054 11185 69033 44107 06172
52238 44441 39765 26305 02172 26077 81741 71123 15792 90161
13625 59317
000 000

6982 kHz, 07-01, 2000 UTC: 981 1 525 58
5182 kHz, 07-01, 2040 UTC: 38286 24612 56098 01985 99394 20722 96312 65430 48761 84854
28592 58701 14961 96033 49163 04885 49781 34262 26511 34284
63129 26712 74934 89626 20055 59957 29634 79494 39705 98714
75247 33557 12460 71800 05943 17407 66712 05425 28063 11372
26033 27968 81439 21266 05773 99040 56372 05005 83584 50485
95975 17030 89442 79142 64016 75860 74533 97406
000 000

6774 kHz, 20-01, 1800 UTC: 788 1 732 80
5836 kHz, 20-01, 1820 UTC: 86777 05567 10670 83427 70803 36644 45038 70554 43568 61675
4893 kHz, 20-01, 1840 UTC: 19335 72028 32401 40323 58760 91977 05258 58035 54665 47521
82684 61380 95471 93330 40228 40153 49958 77085 98734 65343
08982 22952 19266 68581 77669 26762 97842 94315 97057 98365
21648 80839 78446 66895 18337 81149 54934 96029 23259 30062
59893 66290 73055 47315 47875 97461 08733 78146 55557 90670
43877 82319 07344 90819 53583 45050 29585 46245 39788 18523
51888 82552 35471 77840 74445 47825 76620 42650 25166 28155
000 000

5864 kHz, 23-01, 2100 UTC: 815 1 67976 949 48
5164 kHz, 23-01, 2120 UTC: 08470 14288 59581 82221 55121 44188 25957 93299 07076 23187 46215 25731
4564 kHz, 23-01, 2140 UTC: 76649 71576 03643 29759 35345 42017 55420 75656 93459 70681 90497 43353
08709 06012 48060 13497 37092 95746 18619 60222 74836 44392 74149 69952
40919 60318 81402 24491 73706 50464 89723 76169 28522 33934 63222 73508
000 000

5864 kHz, 30-01, 2100 UTC: 815 1 62421 326 69
5164 kHz, 30-01, 2120 UTC: 24887 91749 00775 94382 71776 29486 77143 30357 61336 66139
4564 kHz, 30-01, 2140 UTC: 98412 67721 49005 64900 31274 14063 20133 88524 31477 19298
67843 55073 37000 68119 33396 00247 27647 28344 61973 26807
99770 40863 16820 38019 48804 02940 85957 27149 02426 10724
31091 28598 92399 40554 10817 53567 81370 86088 32030 79069
03329 22768 16597 38241 11100 36038 80998 80801 34395 12180
78262 22273 17488 30141 03775 98656 90643 26469 75223
000 000

5146 kHz, 24-01, 0530 UTC: 188 1 67976 949 48
5846 kHz, 24-01, 0550 UTC: 08470 14288 59581 82221 55121 44188 25957 93299 07076 23187
6846 kHz, 24-01, 0610 UTC: 46215 25731 76649 71576 03643 29759 35345 42017 55420 75656
95459 70681 90497 43353 08709 06012 48060 13497 27092 95746
18619 60222 74836 44392 74149 69952 40919 60318 81402 24491
73706 50464 89723 76169 28522 33934 63222 73508
000 000

5146 kHz, 31-01, 0530 UTC: 188 1 62421 326 69
5846 kHz, 31-01, 0550 UTC: 24887 91749 00775 94382 71776 29486 77143 30357 61336 66139
6846 kHz, 31-01, 0610 UTC: 98412 67721 49005 64900 31274 14063 20133 88524 31477 19298
67843 55073 37000 68119 33396 00247 27647 28344 61973 26807
99770 40863 16820 38019 48804 02940 85957 27149 02426 10724
31091 28598 92399 40554 10817 53567 81370 86088 32030 79069
03329 22768 16597 38241 11100 36038 80998 80801 34395 12180
78262 22273 17488 30141 03775 98656 90643 26469 75223
000 000



E11/ E11a

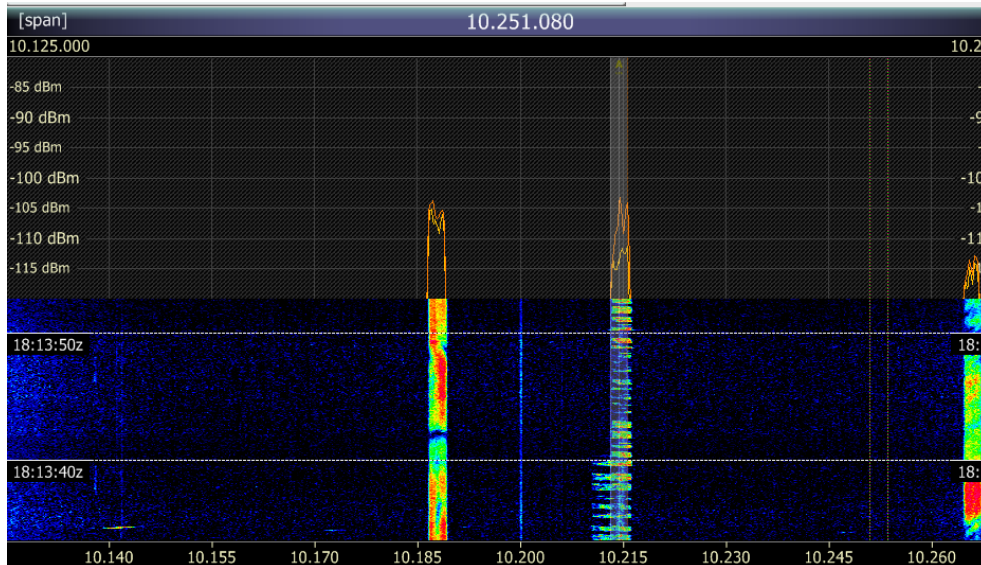
10213 kHz, 22-01, 1810 UTC: 981/10 Attention 42206 56599 32143 73483 76308 59212 50492 62999 90486 36213
Attention, rpt msg, out

10213 kHz, 15-01, 1813 UTC: 984/10 Attention 31406 57281 37427 57433 30315 31494 24709 96206 41269 15216
Attention, rpt msg, out

10690 kHz, 29-01, 1400 UTC: 982/10 Attention 37644 33385 60918 68259 66072 80547 34318 30897 55639 08948
Attention, rpt msg, out

4536 kHz, 18-01, 2000 UTC:	473/32 Attention 93403 78330 51719 99613 51450 47541 50728 63988 41364 95937 16916 06705 58358 74547 64340 99554 82645 41682 01510 08911 21869 26153 37140 18607 71087 84257 88253 16821 17152 30196 49526 33097 Attention, rpt msg, out
14410 kHz, 28-01, 1110 UTC:	954/31 Attention 45036 62781 41810 69016 84271 64493 85155 06823 84156 91808 92495 16995 82453 39957 97376 61825 24990 82565 31874 74173 36933 33818 49291 88643 95566 99185 05618 33013 87711 37454 06203 Attention, rpt msg, out
6923 kHz, 11-01, 1710 UTC:	955/30 Attention 82840 59568 10490 94607 79199 66031 68173 36788 69223 97729 80003 33890 77680 13873 36594 47097 09720 50968 51424 58606 26737 47137 22917 07751 27283 46586 83591 14897 82788 06056 Attention, rpt msg, out
7317 kHz, 03-01, 0820 UTC:	435/32 Attention 53822 70033 05945 81325 54714 98420 72614 18103 20417 92603 12866 94196 40232 43149 48474 12933 66320 45795 44404 08936 95579 75157 03110 56462 50637 35173 13062 47991 79584 40454 74932 09443 Attention, rpt msg, out
7317 kHz, 21-01, 0820 UTC:	436/37 Attention 63753 90209 22511 24276 42807 31645 68136 45914 68013 63771 57428 81871 04981 92497 74579 88065 66998 58093 19244 23613 45221 78668 52947 44709 49043 86161 47421 45554 27915 02906 21865 18517 23201 82867 75037 56820 51409 Attention, rpt msg, out
10690 kHz, 12-01, 1400 UTC:	985/10 Attention 01059 77519 80299 07512 21237 15414 78242 04230 67280 75077 Attention, rpt msg, out
10690 kHz, 15-01, 1400 UTC:	983/10 Attention 79108 88440 14837 22571 72490 44859 87888 21630 37573 66061 Attention, rpt msg, out
10690 kHz, 26-01, 1400 UTC:	981/10 Attention 44287 81112 38400 30020 42113 83947 17117 22713 41910 35863 Attention, rpt msg, out
10800 kHz, 08-01, 1045 UTC:	573/37 Attention 33050 87904 97141 69088 39993 51618 00402 54280 09920 25593 20930 82212 08011 89251 45709 78981 97156 10095 78763 71958 38504 92497 25732 29107 13553 71715 41329 24981 09908 43524 48*94 54676 24426 43418 40530 12478 74914 Attention, rpt msg, out
14410 kHz, 07-01, 1110 UTC:	952/31 Attention 51983 66325 05947 24801 05360 59779 15995 88401 11242 59828 47887 74439 03878 52277 33780 65998 91899 95304 45892 23820 99348 36626 71937 38445 30005 70526 90377 87602 36710 95665 51318 Attention, rpt msg, out
15632 kHz, 17-01, 1155 UTC:	712/37 Attention 64941 23385 57036 69490 48473 84728 21414 12386 23591 32310 94337 66777 97763 97935 36840 30142 42893 40189 59580 47411 94715 78178 44605 01977 09546 09156 16*76 06530 95535 12102 80287 01055 07840 52035 47419 47853 42904 Attention, rpt msg, out

50419 68061 21413 32458 01633 81019 06861 88339 88111 77916 11461 54298 21206 18089
63145 64412 76692 58124 82704 00880 52577 38513 32244 46593 81838 01640 50715 37757
76838 63809
Attention, msg rpt, out



987/10 Attention
01465 34957 37699 82624 84952
62355 26281 53106 23749 65617
Attention, rpt msg, Out

Recording on the N&O website.



E17z

11170.0	3-1-2013	0800	USB	Thu	674 258 5 05928 67844 67328 98823 78873 258 5 00000
9820.0	3-1-2013	0810	USB	Thu	674 258 5 05928 67844 67328 98823 78873 258 5 00000
11170.0	10-1-2013	0800	USB	Thu	674 258 5 05928 67844 67328 98823 78873 258 5 00000
9820.0	10-1-2013	0810	USB	Thu	674 258 5 05928 67844 67328 98823 78873 258 5 00000
11171.0	17-1-2013	0800	USB	Thu	674
11170.0	17-1-2013	0800	USB	Thu	674 289 5 34682 97455 52122 42277 76294 289 5 00000
9820.0	17-1-2013	0810	USB	Thu	674 289 5 34682 97455 52122 42277 76294 289 5 00000
11170.0	24-1-2013	0800	USB	Thu	674 289 5 34682 97455 52122 42277 76294 289 5 00000
9820.0	24-1-2013	0810	USB	Thu	674 289 5 34682 97455 52122 42277 76294 289 5 00000



E25

E25 popped up on 6155 kHz. A mistake?

6140 kHz, 02-01, 0730 UTC:	Arabic Music (Muslim prayer style), Arabic music (modern)
6155 kHz, 04-01, 0929 UTC:	YL. 133 133 133 MESSAGE MESSAGE MESSAGE 0084 8690 6478 0028 6003 1059 REBEAT REBEAT REBEAT 0084 8690 6478 0028 6003 1059 EOM EOT
6155 kHz, 04-01, 1113 UTC:	YL. 880 880 880 MESSAGE MESSAGE MESSAGE 0250 1031 1555 3786 6555 1637 3046 6664 2828 6680 0502 6557 0250 REBEAT REBEAT REBEAT 0250 1031 1555 3786 6555 1637 3046 6664 2828 6680 0502 6557 0250 EOM EOT
6140 kHz, 08-01, 0930 UTC:	Tone. YL. 333 333 333 333 333 333 333 333 333 333 333 333 333 333 333 333 333 333 MESSAGE MESSAGE MESSAGE 1090 0160 1182 2108 6225 5932 2993 1332 0160 REBEAT REBEAT REBEAT 1090 0160

[illegible]

6140 kHz, 08-01, 1115 UTC: Tone. YL. 880 880 880 880 880 8-0 880 880 880 880 880 880 880 880 880 880 880 880
MESSAGE MESSAGE MESSAGE 1110 2011 5791 3548 8456 9876 5444 7697 2528 5594 1110
REBEAT REBEAT REBEAT 1110 2011 5791 3548 8456 9876 5444 7697 2528 5594 1110 END OF
MESSAGE, END OF TRANSMISSION, END OF TRANSMISSION

6140 kHz, 09-01, 0914 UTC: Tone. YL. 950 950 950 950 950 950 950 950 950 950 950 950 950 950 950 MESSAGE MESSAGE
MESSAGE 1011 1933 0220 6424 6245 6416 6376 4097 5595 0166 0220 REBEAT REBEAT REBEAT
1011 1933 0220 6424 6245 6416 6376 4097 5595 0166 0220 EOM EOT EOT

6140 kHz, 09-01, 0929 UTC: Tone. YL. 333 333 333 333 333 333 333 333 333 333 333 333 333 333 333 MESSAGE MESSAGE
MESSAGE 1090 0160 1182 2108 6225 5932 2293 1332 0160 REBEAT REBEAT REBEAT 1090 0160
1182 2108 6225 5932 2293 1332 0160 EOM EOT/EOT

6140 kHz, 10-01, 1115 UTC: Tone. YL. 880 880 880 880 880 880 880 880 880 880 88(AUDIO PROBLEM)0 880 880 880
MESSAGE MESSAGE MESSAGE 0250 3071 1099 7322 7251 1689 2536 8768 5586 8745 3256
1924 3997 2598 3101 8469 0250 REBEAT REBEAT REBEAT 0250 3071 1099 7322 7251 1689 2536
8768 5586 8745 3256 1924 3997 2598 3101 8469 0250 END OF MESSAGE END OF
TRANSMISSION END. (Last EOT truncated to "END" then transmitter off.)

**6140 kHz, 11-01, 1110 UTC: YL 880 880 880 880 880 880 880 880 880 880 880 880 880 880 MESSAGE MESSAGE
MESSAGE 0250 3071 1099 7322 7251 1689 2536 8768 5586 8745 3256 1924 3797 2598 3101
8496 0250 REPEAT REPEAT REPEAT 0250 30**

6140 kHz, 13-01, 0959 UTC: Tone intro

6140 kHz, 14-01, 0837 UTC: Tone intro. YL 185 185 185 185 185 185 185 185 185 185 185 185 185 185 MESSAGE
MESSAGE MESSAGE 1059 4151 9402 8656 0292 8266 3240 5413 5527 8404 ???? REBEAT
REBEAT REBEAT 1059 4151 9402 8656 0292 8266 3240 5413 5527 8404 9?4?

6140 kHz, 15-01, 0814 UTC: Tone intro. YL 185 185 185 185 185 185 185 185 185 185 185 185 185 185 185 MESSAGE
MESSAGE MESSAGE 1059 4151 9402 8656 0292 8266 3240 5413 5527 8404 9246 REBEAT
REBEAT REBEAT 1059 4151 9402 8656 0292 8266 3240 5413 5527 8404 9246 EOM EOT EOT

6140 kHz, 15-01, 0929 UTC: **Tone intro. YL. 333 333 333 333 333 333 333 333 333 333 333 333 333 333 333 MESSAGE**
MESSAGE MESSAGE 2090 0211 9378 0454 7861 1036 2541 1033 0211 REPEAT REPEAT REPEAT
2090 0211 9378 0454 7861 1036 2541 1033 0211 EOM EOT EOT

6140 kHz, 16-01, 0759 UTC: **Tone intro. YL 019 1 019 1 019 1 019 1 019 1 019 1 019 1 019 1 019 1 019 1**
019 1 019 1 MESSAGE MESSAGE MESSAGE 1002 3470 7746 7486 REBEAT REBEAT REBEAT 1002
3470 7746 7486 EOM EOT EOT

6140 kHz, 16-01, 0929 UTC: **Tone intro. YL. 333 333 333 333 333 333 333 333 333 333 333 333 333 333 MESSAGE**
MESSAGE MESSAGE 2090 0211 9378 0454 7861 1036 2541 1033 0211 REPEAT REPEAT REPEAT
2090 0211 9378 0454 7861 1036 2541 1033 0211 EOM EOT EOT

6140 kHz, 16-01, 0947 UTC: Tone intro. Music "Entra Omri". YL. 350 350 350 350 350 350 350 350 350 350 350 350 350 350
350 MESSAGE MESSAGE MESSAGE 1955 7010 1001 0886 3825 3504 4821 9577 1684 7010
REBEAT REBEAT REBEAT 1955 7010 1001 0886 3825 3504 4821 9577 1684 7010 EOM EOT EOT

6140 kHz, 17-01, 2013 UTC: **Tone.** YL. 019 1 019 1 019 1 019 1 019 1 019 1 019 1 019 1 019 1 019 1 019 1
019 1 MESSAGE MESSAGE MESSAGE 1002 3470 7746 7486 REBEAT REBEAT REBEAT 1002 3470
7746 7486 EOM EOT

6140 kHz, 17-01, 0953 UTC: **Tone. Music: Entra Omri. YL. 355 2 355 2 355 2 355 2 355 2 355 2 355 2 355 2**
355 2 355 2 355 2 355 2 MESSAGE MESSAGE EOM EOT

6140 kHz, 19-01, 0820 UTC: Tone. OM. 804 804 804 804 804 MESSAGE MESSAGE MESSAGE 1898 4190 0723 (6 or 8) 2382 2751 0326 8841 5617 REBEAT REBEAT REBEAT 1898 4190 0723 (6 or 8) 2382 2751 0326 8841 5617

6140 kHz, 19-01, 0857 UTC: Tone. YL. [111 111 111 111 111 111 111 111 111 111 111 111 111 111 111 111 MESSAGE MESSAGE
MESSAGE 1913 3290 2041 6388 0406 8751 6163 1042 2148 6742 1380 0799 0532 3290 REBEAT
REBEAT REBEAT 1913 3290 2041 6388 0406 8751 6163 1042 2148 6742 1380 0799 0532 3290
EOM EOT EOT

9450 kHz, 20-01, 1200 UTC: YL. 270 270 270 270 270 270 270 270 270 270 270 270 270 270 270 MESSAGE MESSAGE
MESSAGE 1953 2080 6010 0798 1459 9030 1110 6010 REBEAT REBEAT REBEAT 1953 2080 6010
0798 1459 90 (PAUSE) 2 (PAUSE) 9030 (PAUSE) 1110 6010 REBEAT REBEAT REBEAT 1953 2080
6010 0798 1459 9030 1110 6010 REBEAT REBEAT REBEAT 1953 2080 6010 0798 1459 9030 1110
6010 REBEAT REBEAT REBEAT 1953 2080 6010 0798 1459 9030 1110 6010 REBEAT REBEAT
REBEAT EOM EOT Windows sound

9450 kHz, 21-01, 1200 UTC: No intro. YL 275 270 275 270 275 270 275 270 275 270 275 270 275 270 275 270 275 270 275
270 270 270 270 270 270 MESSAGE MESSAGE MESSAGE 1953 2080 6010 0798 1459 9030 1110
6010 REPEAT REPEAT REPEAT 1953 2080 6010 0798 1459 9030 1110 6010 FOM EQT

6140 kHz, 22-01, 0800 UTC: YL 017 1 017 1 017 1 017 1 017 1 017 1 017 1 017 1 017 1 017 1 017 1 017 1 017 1 017 1



6433 kHz, 20-01, 1755 UTC: 273/35 Achtung
71078 81806 99771 12609 71073 99528 29177 38229 77580 99512 62970 81357 33620 23103
29186 99128 60988 50029 06821 35962 18312 11682 96599 23003 35005 17908 70330 56818
81308 02577 07336 23330 12613 73399 22037
Achtung, rpt msg, Ende



S06 / S06c / S06s

3172	19-1-2013	1930	426 426 426 00000
3192	3-1-2013	1900	349 349 349 00000
3838	24-1-2013	1905	349 349 349 00000
3838	28-1-2013	1905	349 349 349 00000
3843	17-1-2013	1905	349 349 349 00000
4784	5-1-2013	2030	857 857 857 00000
4784	19-1-2013	2033	157 157 157 00000
5250	1-1-2013	0700	374 289 5 89645 67312 80978 88021 34265 289 5 00000
5250	8-1-2013	0700	374 289 5 89645 67312 80978 88021 34365 289 5 00000
5250	15-1-2013	0700	374 509 6 55445 50128 99477 83574 48874 94031 509 6 00000
5250	22-1-2013	0700	374 509 6 55445 50128 99477 83574 48874 94031 509 6 00000
5460	4-1-2013	0600	934 267 5 16070 48834 99477 83574 53718 267 5 00000
5460	11-1-2013	0600	934 267 5 16070 48834 99477 83574 53718 267 5 00000
5660	29-1-2013	1010	893 893 893 00000
5666	1-1-2013	1010	893 246 5 50767 54160 41416 11443 15700 246 5 00000
6085	4-1-2013	0600	934 267 5 16070 48834 99477 83574 53718 267 5 00000
6085	4-1-2013	0610	934 267 5 16070 48834 99477 83574 53718 267 5 00000
6085	11-1-2013	0600	934 267 5 16070 48834 99477 83574 53718 267 5 00000
6085	11-1-2013	0610	934 267 5 16070 48834 99477 83574 53718 267 5 00000
6320	1-1-2013	0710	374 289 5 89645 67312 80978 88021 34365 289 5 00000
6320	8-1-2013	0710	374 289 5 89645 67312 80978 88021 34365 289 5 00000
6320	15-1-2013	0710	374 509 6 55445 50128 99477 83574 48874 94031 509 6 00000
6320	22-1-2013	0710	374 509 6 55445 50128 99477 83574 48874 94031 509 6 00000
6440	29-1-2013	1000	893 893 893 00000
6845	29-1-2013	1500	537 537 537 00000
6880	16-1-2013	0820	471 236 5 40995 55122 14576 98045 78802 236 5 00000
6880	23-1-2013	0820	471 236 5 40995 55122 14576 98045 78802 236 5 00000
7150	4-1-2013	0700	196 234 5 52343 79628 42432 56075 56281 234 5 00000
7150	4-1-2013	0700	196 234 5 52343 79628 42432 56075 56281 234 5 00000
7150	11-1-2013	0700	196 234 5 52343 79628 42432 56075 56281 234 5 00000
7335	16-1-2013	0830	745 283 6 99228 77544 04816 56557 50316 72237 283 6 00000
7335	23-1-2013	0830	745 283 6 99228 77544 04816 56557 50316 72237 283 6 00000
7840	16-1-2013	0830	471 236 5 40995 55122 14576 98045 78802 236 5 00000
7840	23-1-2013	0830	471 236 5 40995 55122 14576 98045 78802 236 5 00000
8214	4-1-2013	0710	196 234 5 52343 79628 42432 56075 56281 234 5 00000
8214	11-1-2013	0710	196 234 5 52343 79628 42432 56075 56281 234 5 00000
8420	7-1-2013	1300	831 957 6 29245 28842 82264 14255 81545 74167 957 6 00000
8420	14-1-2013	1300	831 957 6 29245 28842 82264 14255 81545 74167 957 6 00000
8420	21-1-2013	1300	831 529 6 35587 40496 16812 85564 15279 40816 529 6 00000
8420	28-1-2013	1300	831 529 6 35587 40496 16812 85564 15279 40816 529 6 00000
8680	5-1-2013	1200	254 910 6 12542 97525 85532 54548 77592 80417 910 6 00000
9135	1-1-2013	0810	353 814 6 97298 19155 12244 15906 19546 79663 814 6 00000
9135	8-1-2013	0810	352 814 6 97298 19155 12244 15906 19546 79663 814 6 00000

9170	29-1-2013	1510	537 537 537 00000
10265	1-1-2013	0800	353 814 6 97298 19155 12244 15906 19546 79663 814 6 00000
10265	8-1-2013	0800	352 814 6 97298 19155 12244 15906 19546 79663 814 6 00000
10635	7-1-2013	1310	831 957 6 29245 28842 82264 14255 81545 74167 957 6 00000
10635	14-1-2013	1310	831 957 6 29245 28842 82264 14255 81545 74167 957 6 00000
10635	21-1-2013	1310	831 529 6 35587 40496 16812 85564 15279 40816 529 6 00000
10635	28-1-2013	1310	831 529 6 35587 40496 16812 85564 15279 40816 529 6 00000
11780	4-1-2013	0930	516 928 7 52401 63919 92699 14600 74248 48754 65125 928 7 00000
11780	18-1-2013	0930	516 804 7 11171 64385 82707 06123 22536 88280 84116 804 7 00000
11780	25-1-2013	0930	516 804 7 11171 64385 82707 06123 22536 88280 84116 804 7 00000
11830	16-1-2013	0840	745 283 6 99228 77544 04816 56557 50316 72237 283 6 00000
11830	23-1-2013	0840	745 283 6 99228 77544 04816 56557 50316 72237 283 6 00000
12365	2-1-2013	1000	729 410 5 24001 88749 19970 14513 81432 410 5 00000
12365	9-1-2013	1000	729 410 5 24001 88749 19970 14513 81432 410 5 00000
12365	16-1-2013	1000	729 406 5 47665 94092 48521 63888 92060 406 5 00000
12365	23-1-2013	1000	729 406 5 47665 94092 48521 63888 92060 406 5 00000
12570	4-1-2013	0940	516 928 7 52401 63919 92699 14600 74248 48754 65125 928 7 00000
12570	18-1-2013	0940	516 804 7 11171 64385 82707 06123 22536 88280 84116 804 7 00000
12570	25-1-2013	0940	516 804 7 11171 64385 82707 06123 22536 88280 84116 804 7 00000
12952	3-1-2013	0900	167 238 5 78463 72819 84756 01992 77321 238 5 00000
12952	10-1-2013	0900	167 238 5 78463 72819 84756 01992 77321 238 5 00000
12952	17-1-2013	0900	167 423 5 73124 72277 76293 37538 21065 423 5 00000
12952	24-1-2013	0900	167 423 5 73124 72277 76293 37538 21065 423 5 00000
13565	3-1-2013	0910	167 238 5 78463 72819 84756 01992 77321 238 5 00000
13565	10-1-2013	0910	167 238 5 78463 72819 84756 01992 77321 238 5 00000
13565	17-1-2013	0910	167 423 5 73124 72277 76293 37538 21065 423 5 00000
13565	24-1-2013	0910	167 423 5 73124 72277 76293 37538 21065 423 5 00000
14280	2-1-2013	1010	729 410 5 24001 88749 19970 14513 81432 410 5 00000
14280	9-1-2013	1010	729 410 5 24001 88749 19970 14513 81432 410 5 00000
14280	16-1-2013	1010	729 406 5 47665 94092 48521 63888 92060 406 5 00000
14280	23-1-2013	1010	729 406 5 47665 94092 48521 63888 92060 406 5 00000



S11a

12520 kHz, 10-01, 1015 UTC:

478/30

37305 35287 41035 21592 55039 16832 20743 10334 43023 49491
 89284 10516 33346 64934 42908 75577 45408 88961 80746 39525
 31873 76931 33395 98958 42864 42504 72983 32551 59582 12725



S21

3323/3823 kHz, 08-01, 1842 UTC: 323 284 30
 3323/3823 kHz, 13-01, 1842 UTC: 14771 31895 58305 47282 22756 84533 37604 91376 94911 88006
 3323/3823 kHz, 17-01, 1842 UTC: 60704 27518 73018 75582 29034 53606 42001 82955 66234 07304
 95127 96833 61291 62530 94240 65075 72720 59353 92033 78199
 284 30 000

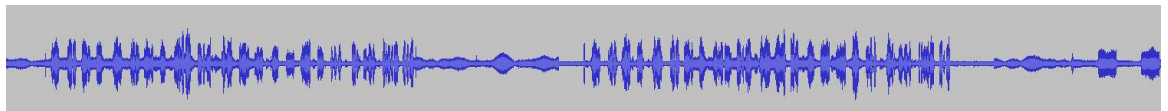


S28 - The Buzzer

Mode: USB
 Frequency: 4625 kHz

Several new formats were introduced this month. The colored messages are the new formats.

02-01, 1334 UTC: MDZhB 54 657 NIZKIJ 10 68 02 87
 02-01, 1338 UTC: MDZhB 13 470 ZIZIFUS 37 24 12 58 LIZIS 34 56 07 09
 03-01, 1145 UTC: MDZhB 05 200 KIZAR 03 97 33 21
 03-01, 1146 UTC: MDZhB 73 239 SIZAI' 65 85 40 03
 03-01, 1148 UTC: MDZhB 44 285 SIDNOKARB 62 60 25 45
 03-01, 1217 UTC: MDZhB 63 880 SIDNOFEN 74 30 25 32
 04-01, 1501 UTC: MDZhB 37 461 VIDAM 51 61 21 20
 14-01, 1246 UTC: MDZhB 83 560 PIANOLO 60 31 45 39
 14-01, 1255 UTC: MDZhB 79 370 DA sboj sboj sboj MDZhB 79 370 DIAKARB 46 77 50 24
 14-01, 1256 UTC: MDZhB 92 527 DIALOMA 58 54 76 24
 14-01, 1327 UTC: MDZhB 67 692 VIADUK 21 74 98 70
 14-01, 1334 UTC: MDZhB 78 148 VZYaTOK 23 55 20 03
 16-01, 1327 UTC: MDZhB 69 240 VZRYShNIK 30 16 54 22



21-01, 1428 UTC: MDZhB 92 970 OZONID 61 41 79 74
 23-01, 0519 UTC: **MDZhB 49 25 VERKhOVShChIK**
 23-01, 1236 UTC: MDZhB 51 531 IZOZOMA 28 15 38 28
 23-01, 1238 UTC: MDZhB 34 654 VZODRANIE 58 28 84 99
 23-01, 1240 UTC: MDZhB 67 965 IZOGALINA 45 74 18 67
 24-01, 1409 UTC: **MDZhB 26 47 GERUNOK**
 25-01, 0247 UTC: **MDZhB TERKA 0254**
 25-01, 0256 UTC: **MDZhB OBJAVLENA KOMANDA 135 (command 135 announced)**
 25-01, 1407 UTC: **MDZhB 71 79 VIRTNYJ**
 26-01, 1240 UTC: **MDZhB 72 06 ShshERSTINKA**
 28-01, 1323 UTC: MDZhB 66 988 IZOBATA 78 87 78 40
 28-01, 1326 UTC: MDZhB 02 144 VZMETNOST' 43 78 09 41
 28-01, 1328 UTC: MDZhB 89 228 UZKIJ 01 84 62 02
 28-01, 1347 UTC: MDZhB 13 658 VZDERZhKA 07 53 90 30
 31-01, 1007 UTC: MDZhB 29 973 IZGOLUBA 64 61 81 01 VZVOZ 09 09 36 91
 31-01, 1011 UTC: MDZhB 49 905 IZAchYeN 75 85 56 07
 31-01, 1019 UTC: MDZhB 43 905 IZAchYeN 75 85 56 07
 31-01, 1024 UTC: MDZhB 19 980 AZARINA 24 45 94 38 YeZhYeMUHA 83 50 10 85 DZhYeMPER 72 28 46 85 DZhAVYeT 45 21 00 65
 31-01, 1044 UTC: MDZhB 25 924 VEMNIJ 65 06 50 58
 31-01, 1112 UTC: MDZhB 81 598 NEChUTKOST' 80 22 73 22 VEChEYa60 42 84 54
 31-01, 1314 UTC: MDZhB 65 681 PEHOTINETs 06 05 96 83
 31-01, 1950 UTC: The Buzzer on 4625//4667//4710 kHz



S30 - The Pip

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

5448 kHz, 25-01, 0500 UTC: 8S1SHch 61 655 EVTROFON 64 62 60 39 LACKRINICHNYJ 23 13 57 28 Priyom

6512 kHz, 31-01, 1750 UTC: until 1757 UTC. Also on its usual freq 3756 kHz



S32 - Squeaky Wheel

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

3828 kHz, 25-01, 0507 UTC: Al'fa45 52 988 ETRAN 59 97 74 40 VISKARDAN 37 18 55 76 Priyom

5473 kHz, 25-01, 0512 UTC: Al'fa45 52 988 ETRAN 59 97 74 40 VISKARDAN 37 18 55 76 Priyom

5473 kHz, 25-01, 0512 UTC: Squeaky Wheel. Harmonics on: 5439, 5445, 5456, 5473, 5480, 5491, 5508 kHz

5473 kHz, 28-01, 0842 UTC: Dlya Secret76 Dlya Secret76.. 12345678910 12345678910 12345678910
 12345678910 Dlya Secret76 Dlya Secret76

3828 kHz, 29-01, 2046 UTC: Squeaky Wheel on 3793.8 and 3828 kHz



RMv/RNv/RNAv/RAv

Russian military stations

Frequency: various
 Mode: USB / voice

RAv – Russian Air Force:

Geir reported comms of a number of Russian bombers on 23-01. According to the Vietnamese News Agency the Russians participated in an exercise. The four Tu-95 MS bombers reportedly left their base in Enghels for a large naval exercise in the Black Sea area. The bombers conducted missile attacks and then returned to their base. The Tu-95's were airborne for almost six hours without being refueled.

Geir heard the bombers on 8131 kHz USB on 23-01, between 1317 and 1435 UTC. His recording is on the UDXF and N&O websites.

Tony copied the aircraft on 8131 kHz USB on 23-01, at 1045 UTC. The voice comms were jotted down and translated by Pavel Podvig: "90-573, I'm 64-132, I'm repeating the radio: 'a break sign', 821, 8-2-1, 385, 3-8-5, 341, 3-4-1, 900, 9-0-0, 080, 0-8-0. Did you get it okay? Stand-by. ... 90-573, I confirm the radio. Thank you"



UMv - Ukrainian Military

3298	6-1-2013 1934	LSB	Ukrainian Air Defense in progress
3298	12-1-2013 1934	USB	Ukrainian Air Defence



V13 - New Star Broadcasting Station

星星廣播電台 Xīngxīng guǎngbò diàntái

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

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



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.

7938 kHz, 01-01, 0709 UTC, 0810 UTC

7938 kHz, 04-01, 0644 UTC

5764 kHz, 05-01, 1216 UTC

MORSE STATIONS



MX

Russian Military beacons

Current cluster frequencies:

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

Other frequencies:

L 5156.8, 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

L: 5025, 5156.8 kHz. New frequencies. "L" seems to have some problems in finding a new clear frequency.

Asian Cluster Beacons: F, K, M

Channel markers:

V: 3658 kHz



M01

4490 kHz, 03-01, 2000 UTC: 197 197 197 127 127 30 30 = =
 00662 00662 38936 38936 64484 64484 30428 30428 76757 76757 32696 32696
 46468 46468 68744 68744 37260 37260 85309 85309 29131 29131 00337 00337
 03394 03394 31964 31964 86327 86327 7347 5 73475 22331 22331 12965 12965
 77979 77979 87903 87903 35742 35742 40384 40384 55240 55240 53079 53079
 37363 37363 77878 77878 19207 19207 77309 44309 81686 81686 77765 77765
 = = 127 127 30 30 000

5320 kHz, 09-01, 1800 UTC: 197 319 319 30 30 = =
 54664 54664 32512 32512 18628 18628 26012 26012 96369 96369 98730 98730
 80962 80962 30014 30014 96899 96899 28445 28445 31746 31746 23994 23994
 72797 72797 61963 61963 00492 00492 47554 47554 24635 24635 95593 95593
 53962 53962 56948 56948 03134 03134 01767 01767 2392 23920 58406 58406
 80658 80658 70377 70377 61148 61148 42262 42262 57545 57545 80971 80971
 = = 319 319 30 30 000

5320 kHz, 15-01, 1804 UTC: 197 190 190 782 782 30 30 = =
 81952 81952 66964 66964 57360 57360 43998 43998 43998 08613 08613 41783 41783
 68067 68067 35433 35433 **97290 97290 97290** 26177 26177 10358 10358 37137 37137
 57841 57841 98484 98484 71606 71606 48931 48931 39164 39164 92650 92650 78587 78587
 39302 39302 01669 01669 92065 92065 13539 13539 30883 30883 93259 93259 39431 39431
 12504 12504 50501 50501 68136 68136 17340 17340
 = = 782 782 30 30 000

4490 kHz, 24-01, 2000 UTC: 197 015 30 = = 06113 06113 73467 73467 99376 99376 **26074 26074 26074 26074** 13211 ...
 30814 94418 18377 24161 45187 = = 015 30 000

Note: stutter appeared at least two times this month.



M12

8047 kHz, 30-01, 1700 UTC:

463 1 7782 99
 55439 32243 62279 25611 93852 59490 90520 84141 32389 43389
 13210 47258 61934 82586 69934 34361 93414 49116 13449 64061
 79489 09626 37797 10256 09772 00192 81482 78851 12968 97154
 26258 29314 15562 80208 21853 81600 38112 43393 35674 33909
 81911 32684 96680 27076 11381 59969 14275 21152 92563 37732
 53280 43270 03818 04230 83686 77635 33971 72381 30537 40067
 98383 15122 64629 17581 18968 60023 90727 92900 86292 42507
 63404 37384 11391 96903 74754 49874 72837 92301 18110 12364
 37345 23400 80968 69526 48973 70094 48898 87224 82656 45330
 32868 58535 55025 94682 82309 43168 98488 10654 29752
 000



M14

4637 kHz, 08-01, 1823 UTC.

186 173 15

73629 17263 84028 16374 28491 03728 17392 17368 29364 20981

83920 27391 20735 18372 18329 = =

173 15 00000



M18

3803 kHz, 09-01, 0031 UTC: 0433 0433 0434 etc

3803 kHz, 11-01, 2208 UTC: 0308 0308 0308 0309 0309 etc.

3803 kHz, 12-01, 1816 UTC: 2116 2116 2116 2117 2117 etc

3803 kHz, 17-01, 1920 UTC: 0527 0527 0528 etc.

3803 kHz, 26-01, 1743 UTC: 1808 1808 1808 1809 1809 etc.

3803 kHz, 26-01, 2010 UTC: 2024 2024 2024 ...



M21 + variants

Russian Air Defence Forces

Во́йска ПВО Voyska PVO

Id "0": 3322, 4951.5

Time strings like: =990416??0?????



M32

Russian/CIS/Ukrainian

Military CW Stations

Log: 6043 kHz, RCIV: Russian Navy "rcv de rciv qsa? k 347 4 23 1715 347 = for rkf82 = kökyw eäyep weppw = + rciv k"

Wolfgang and Tom noticed that when you enter "weppw" on a teletype machine with figures shift it gives "23002" which is a date/time group. So, "köky weäyep weppw" would be "KÖKY 231630 23002" (231630 = Date and time of the probable status report) 23002 = (Date group count).

Tom writes that this format has been seen before in comms from some vessels. It appears to be the letter equivalent to the figure format of the short status messages.

Example: 5129 kHz, RHC84 DE RCV 147 4 19 0150 147= SML = **SNAXÄ IWWRT ÄÖPPW** = + K

Shifted: **SNAX 182245 19002**

Another sample: 12464 kHz, RCV DE RMCW 115 4 17 1600 115 = **SML 98471 71509 17002** = AR RMCW K

Shifted: **9847 171509 17002** (9847 in code) **17** (Date) **1509** (Time) **17** (Date) **002** (Number of actual groups in the message minus the date group count and address group) .

Les and Attu copied a Russian military net with NCS "TZWN"

6875 kHz, 23-01, 1515 UTC TZWN wkg LETP, VYWF QTC
 6875 kHz, 23-01, 1633 UTC TZWN wkg SEVV, UAXZ, ZEW9, QZDQ, JQA7
 6875 kHz, 23-01, 1726 UTC TZWN wkg YZWN QTK K QTC
 5479 kHz, 27-01, 1650 UTC VAXZ clg TZWN
 5479 kHz, 27-01, 1651 UTC ZEW9 clg TZWN
 5479 kHz, 27-01, 1652 UTC PMB7 clg TZWN

Attu comments: "this 5479 kHz station, daily at around 1700 to 1800 UTC, calls a specific station using three different callsigns. Messages often consist of 5LG & 5FG traffic. Within a matter of minutes identifying himself with several callsigns. Highly skilled CW operator, often bursts up into high speed CW"

13971	1-1-2013	1024	TYA1: Russian mil. "PI2W DE TYA1 QSA 0 QSY 40461"
7660	3-1-2013	0738	3FLA: Russian mil. "3FLA QTC 878 24 3 1135 878 = 864 = DDDDD"
7637.5	3-1-2013	0802	KOLJ: CIS mil. 5L message ending "DE KOLJ QRJ"
3826	3-1-2013	1941	CIS Mil. "OHJU DE VBUI OHJU DE VBUI QTC K WR4 BV1 75T55 32125 75T = 1W6 = 11111"
3826	3-1-2013	1948	CIS Mil. Ends 53-group message to unid: 47311 01415 ... 89993 03053 K.
6220	3-1-2013	2000	Russian Mil. BSBH de YFY7 K. R K. Nothing further
2692	3-1-2013	2030	TMWY: Russian Mil. ip: ... 925 = ZÖNOÄ UGWIÖ ... WTGTA QKCQC _____ K. SXL_ de TMWY QTC K. TMWY __0 32 __ __14 = ____ = ÖUQZ_ QJRDN ...
5312	4-1-2013	2048	CIS Mil. c/s DZOC
3160.5	7-1-2013	1904	RGT77 RGT77 990 = EchCYT DSWRX SÖIÜV PUFD? UACHQÜ PRBLH XXBJF VÖFII ITZGS PCUHC JDGXV GNZLK PUPCP = K //3177.5 kHz
3177.5	7-1-2013	1904	RGT77 RGT77 990 = EchCYT DSWRX SÖIÜV PUFD? UACHQÜ PRBLH XXBJF VÖFII ITZGS PCUHC JDGXV GNZLK PUPCP = K //3160.5 kHz
10442	10-1-2013	0939	XXX XXX REA4 REA4 10972 EDOK 2306 4828
11468	10-1-2013	0943	XXX XXX RGT77 RGT77 71078 05616 EDOK 2306 4828
6386	11-1-2013	0715	RGT77 sending 5 grp message
10442	12-1-2013	0713	XXX XXX REA4 REA4 93518 ANTEFIKSY 5990 2625 GROBOWQIK 4991 4531
10442	12-1-2013	0717	XXX XXX REA4 REA4 61216 FRENOLON 5530 4216
10442	12-1-2013	0727	XXX XXX REA4 REA4 83411 GROT 1553 9281 GUBOeATYJ 4445 2088
10442	12-1-2013	0737	XXX XXX REA4 REA4 55358 PROBIRNYJ 7192 6679
10442	12-1-2013	0742	XXX XXX REA4 REA4 48285 GORSTX 4380 8485
5286	12-1-2013	0750	Russian Mil. 5 grp message in progress. 0800 UTC: "V3S6 DE LONS" 5 grp messages sent
10442	12-1-2013	0800	XXX XXX JUE4 JUE4 53453 OeMOK 7491 5426
10442	12-1-2013	0804	XXX XXX MJUR MJUR 07845 AREWA 2954 7377 STREPTOCID 9297 3241
10442	12-1-2013	0808	XXX XXX REA4 REA4 57846 OTREOeENNYJ 5737 7349
10442	12-1-2013	0813	XXX XXX REA4 REA4 53460 PLANISFERA 3521 0838
10442	12-1-2013	0817	XXX XXX REA4 REA4 45838 ZUBRENIE 5606 8487
10442	12-1-2013	0821	XXX XXX REA4 REA4 22643 GLADINA 7551 6212
10442	12-1-2013	0843	XXX XXX REA4 REA4 68142 ORKO 4043 8168
5479	12-1-2013	1600	Russian Mil. SF57 clg YFY7
5077	12-1-2013	1914	Russian mil. "XO7I QTC 666 52 12 2100 666 = 719 = 11111"
3217	12-1-2013	1930	Russian Mil with radio checks. HK6C DE 8JO1. Q2Z5 DE 8JO1. MR6C DE 8JO1
5050.5	12-1-2013	2007	Russian mil. "VVV VVV ZJ5V DE NEI8"
5139.8	12-1-2013	2030	Russian Mil. 5 grp message in progress
5151.9	12-1-2013	2030	Russian Mil. 5 grp message in progress
4647	14-1-2013	0728	XXX XXX REA4 REA4 44728 PODIUM 4418 3826 BOLTKA 4443 7445 K
4647	14-1-2013	0731	XXX XXX REA4 REA4 69940 ASKLETOK 6392 5155 K
4647	14-1-2013	0738	XXX XXX JUE4 JUE4 46994 OVUKOLKA 4429 9032 K
4647	14-1-2013	0741	XXX XXX REA4 REA4 71689 DRAOWYJ 7105 4267 K
4647	14-1-2013	0754	XXX XXX MJUR MJUR 24401 OCEPENENIE 8868 2092 K
4647	14-1-2013	0809	XXX XXX REA4 REA4 62389 MOKOWYJ 8741 5410 K
4647	14-1-2013	0813	XXX XXX REA4 REA4 36678 ANGALAMIN 7354 7843 K

4647	14-1-2013	0817	XXX XXX REA4 REA4 23896 ASMANIT 2879 1128 K
4647	14-1-2013	0842	XXX XXX REA4 REA4 18363 36960 00001 01538 0000 = REA4 K
4647	14-1-2013	0846	XXX XXX REA4 REA4 58400 ULOWNYJ 0850 9585 K
8453	15-1-2013	0739	Russian Mil. PMMA clg ARTY "ARYT DE PMMA QTC AR PT3 H 18 121 1 1142 4JEO ="
7552	15-1-2013	0918	Russian Mil. "DH9R DE LBYM K. QSV K. BK QRV K"
7552	15-1-2013	0921	Russian Mil. "LBYM R 037 K"
5436	15-1-2013	1435	XXX XXX RDL RDL 0453DS AMFIDIÄ 01 1350250270 822K
3207	16-1-2013	1703	Russian Mil. LOZE clg 1OTE
3274	17-1-2013	1828	CIS military XXX XXX 8S1Q 8S1Q 96811 KOTARNICA 840Z3 96811 K
4433	17-1-2013	2154	Russian Mil. VJL2 DE HISJ K. R K
12152	19-1-2013	1012	Russian Mil. PRJW DE QA1V QTC 760 28 19 1406 860 = 822 =
7838	21-1-2013	0628	Russian Mil. NPKF clg NPKF "NPKF TT423 211T2 TTT43 K NPKF A 388 RK RK RK R A RK"
5394	21-1-2013	2013	Russian Mil. WNG6 clg RJWG
6875	23-1-2013	1515	Russian Mil. TZWN wkg LETP, VYWF QTC
6875	23-1-2013	1633	Russian Mil. TZWN wkg clg SEVV UAXZ ZEW9 QZDQ JQA7
6875	23-1-2013	1726	Russian Mil. TZWN wkg YZWN QTK K QTC
3162	23-1-2013	2142	Russian Mil. WAEO WAEO DE BRI8 BRI8 QSA?K then again to YODV
2822	24-1-2013	1724	Russian Mil. CORJ clg KBTB
2399.5	24-1-2013	1759	NMWX: CIS mil. traffic with ZASR ZMM ZON ZRA QYT1
5286	25-1-2013	0642	Russian Mil. QJZT clg AQJZ
7789	25-1-2013	0730	Russian Mil. QTJN clg V9ZM "V9ZM V9ZM V9ZM DE QTJN QTJN QCZ"
5479	27-1-2013	1650	Russian Mil. VAXZ clg TZWN
5479	27-1-2013	1651	Russian Mil. ZEW9 clg TZWN
5479	27-1-2013	1652	Russian Mil. PMB7 clg TZWN
3775	27-1-2013	2123	VL6R: Russian Mil. Comms check with at least 1DVZ, PR6Z, Z190, DQP9
3826	27-1-2013	2136	MX1G: CIS Mil. K25S de MX1G K. Nothing further.
3261	30-1-2013	1858	ESUP: Russian Mil. NCS "XXX ESUP 52288 FRUKT 4658 K"
2667	30-1-2013	1907	VLBA: Russian Mil. NCS "... de VLBA ZYX ZZN ZNU ZRP ZOU ZC ZWB ZBQ K. de Z.OJ (repeats back) K. BAVA de LROP" (repeats back) K. Nothing further.
6941	31-1-2013	0600	Russian Mil. LEJ8 de ZOMR QTC K. LEJ8 de ZOMR QTC K. ZOMR 725 30 31 1010 725 = 743 = SOLTG PPPPP IXCOH ... (ending) chÜZMQ EÄPWI (31028) K
6422	31-1-2013	0745	CIS Mil. 7RJN DE MR6Z QTC 7RJN DE MR6Z QTC. MR6Z 211 49 30 1135 = 028 = AAAA XDDYU CEPJR IOTÖch QBVVK IOTFU PLXHA KNRGU IXTFB (Continues)
7785	31-1-2013	0830	CIS Mil. IQWI DE IEFN QRJ? QYT9



M32a
Russian Navy
Voyenno-Morskoy Flot Rossiï

Lionel copied an unid station on 7954 kHz, 03-01, 0905 UTC in progress. The station sent 5FGs with long zero's. The message looks very much like the well-known Russian naval "radio prognoz" messages. I am confident that this is also a Russian naval message.

Lionel copied these groups:

```
..... 42402
00001 01218 30010
00002 01218 40012
00005 01218 60017
00006 01218 50012
00102      30090
00002 01284 30010
00005 01824 50019
```

Trond sent us a complete radio prognoz message:

```
RLO de RIT
QTC 322 34 30 1257 322 = radio prognoz
30099 63003 40000
00001 01218 40011
00002 01218 40012
00005 01218 70017
00006 01218 60016
00101 01218 40013
```

00006 01824 40014

01824

Ended with "AR"

00001 01824 40010

00002 01824 40011

00005 01824 60015

00006 01824 50014

00102 01824 50014

Tom sent us several logs with maps showing the position of the vessels.

8345 kHz, 26-01, 0611 UTC: Russian Navy Tanker Ivan Bubnov, RCJG

8345 kHz, 26-01, 0617 UTC: Russian Navy Tanker Lena, RKO81

Tom's recording is on <https://soundcloud.com/tomteej/rcjg-rko81-26-jan-2013-06-gmt>

VVV RCV DE RCJG QSA ? QTC K

RCJG 360 18 26 1000 360 = SML FOR RJH45 RJE73 =

26061 99358 10348 41498 70000 10160 40151 53010 70221 87300 22200 00160 20000 88000 1 (SENDING ERROR)

00160 20000 88000 26014 = + RCJG K

RCJG OK QRU K

RKO81 QRC (SENDING ERROR)

RKO81 QTC K

RKO81 443 20 26 1000 443 = FOR RJH45 RJD38 RJE73 =

26061 99343 10317 41798 21406 10150 40106 54000 70121 82121 22233 00162 29901 328// 88000 80000 26016 = + RKO81 K

RKO81 RPT FOR RJH45 RJD38 RJE73 K

RKO81 QI (SENDING ERROR)

RKO81 OK QRU K

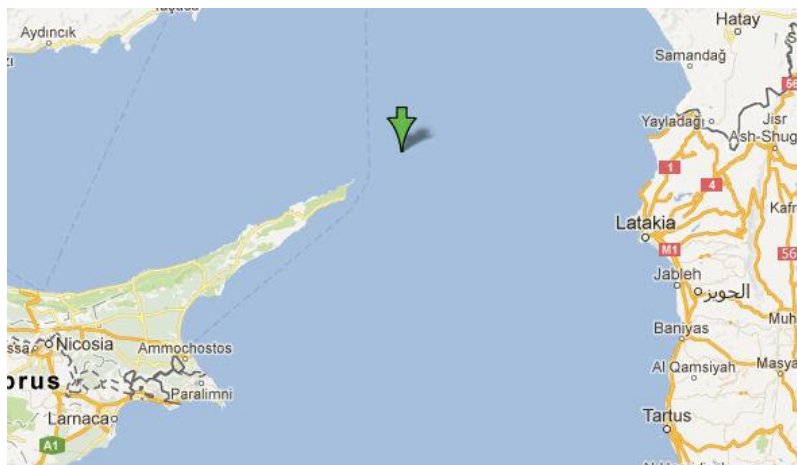
Map links and position, heading, speed info.

8345 kHz, 26-01, 0611 UTC

RCV DE RCJG 26061 99358 10348 22200

35.8N 34.8E

<http://goo.gl/maps/OnWWJ>



8345 kHz, 26-01, 0617 UTC

RCV DE RKO81 26061 99343 10317 22233

34.3N 31.7E Heading South East at 11-15 Knots

<http://goo.gl/maps/dAjqm>



3500.5	9-12-2012	2025	Russian Navy. c/s RCP, RJ56
21438	16-12-2012	1236	Russian Navy: RIP90 de RCV
12464	3-1-2013	0805	RFH71: Russian Navy LS Novocherkassk. "rcv de rfh71 qyt4 qsx 10201/11777 k"
7954	3-1-2013	0905	ip, 42402 00001 01218 30010 00002 AR
8345	3-1-2013	1000	RBES: Russian Navy. "rmp de rbes qsa? k"
12464	3-1-2013	1158	RCJG: Russian Navy AO Ivan Bubnov. "00354 meksamin 4995 6522"
12464	3-1-2013	1158	RFH71: Russian Navy LS Novocherkassk. "00354 meksamin 4995 6522"
12464	3-1-2013	1158	RIR96: Russian Navy. "00354 meksamin 4995 6522"
12464	3-1-2013	1203	RCJG: Russian Navy AO Ivan Bubnov. "rcv de rcjg 775 18 3 1600 775 = sml for rjh45 rje73 = 03121 99346 10319 41498 71106 10170 40262 54000 70321 87200 22222 00170 20000 88000 03014 = + rcjg k"
12464	3-1-2013	1209	RIR96: Russian navy. "rcv de rir96 558 16 3 1603 558 = for rje73 rjh45 = 03121 99358 10348 41798 10000 10174 40264 57015 70200 82000 22200 00192 29911 03013 = + rir96 k"
8345	3-1-2013	1210	RKO81: Russian Navy AO Lena. "rmp de rko81 241 20 3 1600 241 = for rjh45 rjh74 rjd38 = 03121 99428 70101 41998 1904 10150 40332 54010 70200 81001 22253 00137 209// 325// 88000 80000 03016 = + rko81 k"
8345	3-1-2013	1605	RCJG: Russian Navy AO Ivan Bubnov. "rcv de rcjg 752 18 3 1000 752 = sml for rjh45 rje73 = 03061 99349 10367 41498 51007 10160 40262 52010 70111 84300 22222 00170 20000 88000 03014 = + rcjg k"
8345	3-1-2013	1610	RIR96: Russian Navy. "rcv de rir96 347 16 3 0955 347 = for rje73 rjh45 = 03061 99358 10348 41597 60903 10162 40279 53030 70202 86670 22200 00192 20503 03013 = + rir96 k"
8345	5-1-2013	0605	RKO81: Russian Navy AO Lena. "rmp de rko81 104 20 5 1000 104 = for rjh45 rjd38 rje73 = 05061 99363 70080 41798 21307 10170 40306 54 000 70200 82400 22253 00150 2//// 399// 88000 80000 05016 = + rko81 k"
12464	5-1-2013	1210	RKO81: Russian Navy AO Lena RUS 1210 CW rcv de rko81 388 20 5 1600 388 = for rjh45 rjd38 rje73 = 05121 99359 70067 41798 11904 10180 40332 52010 70100 81001 22253 00155 20000 399// 88000 80000 05016 = + rko81 k"
4079	5-1-2013	1638	RMP: Navy Kaliningrad. Weather in Russian to REO
12464	8-1-2013	0910	Russian Navy. "rcv de rir96 277 16 8 1301 277 = for rje73 rjh45 = 08091 99396 10256 41696 53618 10040 40239 52020 70201 89810 22213 00170 21111 08013 = + rir96 k"
12464.2	8-1-2013	1129	Russian Navy LS Nikolay Filchenkov. "rcv de rgz59 qsa2 qyt ? k qyt no ok qap k"
12518	8-1-2013	1200	RCV: Russian Navy Sevastopol tfc to rgz59 after coord. on 12464/19201
12464	8-1-2013	1213	Russian Navy AO Lena. "rcv de rko81 327 20 8 1600 327 = for rjh45 rjd38 rje73 = 08121 99377 10072 41698 62768 10170 40266 54010 70322 86400 22222 00165 20000 399// 88000 80000 08016 = rko81 k"
8345	8-1-2013	1810	Russian Navy AO Lena. "rmp de rko81 247 20 8 2200 247 = for rjh45 rjd38 rje73 = 08181 99378 10086 41698 72709 10165 40252 54007 70232 875// 22222 00165 2//// 399// 88000 80000 08016 = rko81 k"
12464	10-1-2013	1156	Russian Navy: "rcv de rbes 788 15 10 1555 788 = sml for rjh45 rje73 = 10121 99358 70166 43598 13205 10170 40220 54000 70200 81120 22232 10011 = + rbes k"
3755	10-1-2013	1802	RTS: Magadan msg's for RBN3
8345	11-1-2013	0005	Russian Navy: "rcv de rbes 249 15 11 0352 249 = sml for rjh45 rje73 rjd38 = 11001 99354 70191 43/97 82305 10170 40190 56030 70022 22232 11010 = + rbes k"
8345	11-1-2013	0210	Russian Navy: "rcv de rbes 673 33 11 0601 673 = sml for rcv rmp = 11111 77869 06803 41510 33520 ...= +rbes k 2013-01-11 (wp3)
8345	11-1-2013	0600	Russian Navy: "rcv de rbes 299 16 11 1001 299 = sml for rjh45 rje73 rjd38 = 11071 99351 70204 43498 82208 10180 40170 54010 70121 88250 22232 11012 = + rbes k"
4039	11-1-2013	2101	Russian Navy Baltic Fleet, Severomorsk "RLO de RIT QTC 553 34 12 0057 553 = Radio prognoz 12013 00001 ... 00612 30009 ="
12464	12-1-2013	1205	Russian Navy Tug Sliva (SB-921) "rcv de rbes 409 169 12 1553 = sml for rjh45 rje73 rjd38 = 12121 99344 10267 43428 62306 10210 40180 54000 70211 86320 22222 12011 = + rbes k"
5224	12-1-2013	2140	RCV: Sevastopol Naval Radio "RBEG de RCV QSA1 K. RBEG de RCV QRR3 QSX 5454 K."
5224	12-1-2013	2142	RCV: Sevastopol Naval Radio "RHL80 de RCV QSA? K." Then calls RFH70 (destroyer Smetlivy) for QSA. RFH70 de RCV QYT4 QSA? K. RFH70 de RCV QYT4 QLS1 K. RCV R K."
5454	12-1-2013	2142	RCEG: Russian Warship "RCV de RCEG ZZD ZZK ..." Sets up scrambled Morse sked.
3395.5	13-1-2013	----	RFH71: Russian Navy LS Novocherkassk "rcv de rfh71 qyt4 qsx 4045 k"

8345	13-1-2013	----	RHL80: Russian Navy "rpm de rhl80 ok as3 qyt4 wrk k qyt4 qwh k qyt4 qsx 13935/13935 k qwh 8330/8330 qls k"
8345	13-1-2013	----	RCJG: Russian Navy AO Ivan Bubnov "rcv de rcjg 833 18 13 1600 833 = sml for rjh45 rje73 = 13121 99349 10342 41498 81306 10150 40215 54000 70252 78200 22222 00150 20000 88000 13014 = + rcjg k"
8345	13-1-2013	----	RBES: Russian Navy Tug Sliva (SB-921) "rcv de rbes416 26 14 0200 416 = sml for rcv = 11111 51459 94194 "
8345	13-1-2013	0001	RBES: Russian Navy Tug Sliva (SB-921) "rcv de rbes 569 15 13 0355 569 = sml for rjh45 rje73 rjd38 = 13001 99344 10294 43/98 42309 10160 40210 51030 70211 22222 13010 = rbes k"
3395.5	13-1-2013	0005	REL5: Russian Navy "rcv de rel5 428 17 13 0355 428 = for rjh45 rje73 rje65 = 13001 99443 10351 41/98 90507 10030 40119 54000 70022 8//// 22212 00080 2//// 13013 = + rel5 k"
8345	13-1-2013	0625	RBES: Russian Navy Tug Sliva (SB-921) "rcv de rbes 993 16 13 1010 993 = sml for rjh45 rje73 rjd38 = 13061 99343 10306 43498 33208 10160 40200 52010 70110 83260 22222 13011 = + rbes k"
12464	13-1-2013	1156	RBES: Russian Navy Tug Sliva (SB-921) "rcv de bes 349 16 13 1554 349 = sml for rjh45 rje73 rjd38 = 13121 99343 70217 43698 53204 10170 40220 51020 70211 85110 22222 13011 = + rbes k"
12464	13-1-2013	1209	RKO81: Russian Navy AO Lena "rcv de rko81 349 20 14 1600 349 = for rjh45 rjd38 rje73 = 14121 99366 10206 41898 31716 10170 40199 52010 70312 83130 22223 00160 20403 399// 88000 80000 14016 = + rko81 k"
8345	14-1-2013	----	RKO81: Russian Navy AO Lena "rcv de rko81 qsa? k (nil) rmp de rko81 qsa? k (nil) riw de rko81 qsa? qtc k"
3395.5	14-1-2013	0005	RCJG: Russian Navy AO Ivan Bubnov "rcv de rcjg 107 18 14 0400 107 = sml for rjh45 rje73 = 14001 99352 10346 41498 41002 10150 40272 57020 70221 84200 22200 00150 20000 88000 14014 = + rcjg k"
3395.5	15-1-2013	2001	Russian Navy Sevastopol "RIR96 DE RCV QYT4 QSX 3572,5"
8345	21-1-2013	1812	RKO81: Russian Navy Tanker Lena 5F message and QRU
5224	21-1-2013	1943	Navy Sevastopol "RBES DE RCV QSA? QTC"
12464	22-1-2013	1202	RIR96: Russian Navy LS Azov (151) "rcv de rir96 776 16 22 1540 776 = for rje73 rjh45 = 22121 99349 10348 416987 11105 10210 40139 54000 70201 81030 22222 00180 29900 22013 = + rir96 k"
12464	22-1-2013	1202	RCJG: Russian Navy AO Ivan Bubnov "rcv de rcjg 704 18 22 1600 704 = sml for rjh45 rje73 = 22121 99358 10348 41597 20714 10160 40130 57020 70210 82210 22200 00160 20406 88000 22014 = + rcjg k"
12464	22-1-2013	1205	RKO81: Russian Navy AO Lena "rcv de rko81 291 20 22 1600 291= sml for rjh45 rjd38 rje73 = 22121 99367 10262 41798 22512 10210 40080 53140 70200 81100 22200 00170 20603 399// 88000 80000 22016 = + rko81 k"
8345	22-1-2013	1801	RBES: Russian Navy Tug Sliva (SB-921) "rcv de rbes 144 16 22 2203 144 = sml for rjh45 rje73 rjd38 = 22181 99360 10352 43596 20912 10180 40130 54000 70100 821// 22261 22011 = rbes k"
8345	22-1-2013	1805	RKO81: Russian Navy AO Lena "rcv de rko81 481 20 22 2200 481 = for rjh45 rjd38 rje73 = 22181 99367 10262 41698 32512 10160 40106 52013 70200 83140 22200 00176 20603 399// 88000 80000 22016 = + rko81 k"
3395.5	22-1-2013	2136	RLD67: Russian Navy "rcv de rld67 qrr3 qdw? k"
8345	23-1-2013	0001	RBES: Russian Navy Tug Sliva (SB-921) "rcv de rbes 128 15 23 0352 128= sml for rjh45 rje73 rjd38 = 23001 99359 10349 43597 61305 10150 40150 52020 70211 22231 23010 = + rbes k"
3395.5	23-1-2013	0004	RCJG: Russian Navy AO Ivan Bubnov "rcv de rcjg 311 18 23 0400 311 = sml for rh45 rje73 = 23001 99358 10348 41998 03104 10160 40151 54000 70100 70000 22200 00160 20000 88000 23014 = + rcjg k")
12464	23-1-2013	0819	RDND: Russian Navy "riw de rdnd ok qap k"
19201	23-1-2013	0942	Russian Navy. RCV Nawips to RIP90
12464	23-1-2013	1157	RBES: Russian Navy Tug Sliva (SB-921) "rcv de rbes 178 16 23 1553 178= sml for rjh45 rje73 rjd38 = 23121 99359 10348 43697 62508 10230 40180 52030 70211 86310 22211 23011 = + rbes k"
12464	23-1-2013	1202	RCJG: Russian Navy AO Ivan Bubnov "rcv de rcjg 525 18 23 1600 525 = sml for rjh45 rje73 = 23121 99358 10348 41498 32712 10170 40172 52020 70210 83200 22200 00160 20302 88000 23014 = + rcjg k"

12464	23-1-2013	1205	RKO81: Russian Navy AO Lena "rcv de rko81 332 20 13 1600 332 = sml for rjh45 rjd38 rje73 = 23121 99367 10262 41598 62510 10170 40132 54010 70322 86135 22200 00170 20602 399/// 88000 80000 23016 = + rko81 k"
19201	24-1-2013	1007	RCV: Russian Navy Sevastopol sending 5LGs to RJE. Also clg RCIV
2600	24-1-2013	1814	RMAE: Russian navy ship. Weather in Russian ending RMAE QRU
3755	25-1-2013	1803	RTS: Russian Navy Magadan clg UGU5
8345	26-1-2013	0611	Russian Navy Tanker Ivan Bubnov "RCV DE RCJG 360 18 26 1000 360 = SML FOR RJH45 RJE73 = 26061 99358 10348 41498 70000 10160 40151 53010 70221 87300 22200 00160 20000 88000 26014 = + RCJG K"
8345	26-1-2013	0617	Russian Navy Tanker Lena "RCV DE RKO81 443 20 26 1000 443 = FOR RJH45 RJD38 RJE73 = 26061 99343 10317 41798 21406 10150 40106 54000 70121 82121 22233 00162 29901 328/// 88000 80000 26016 = + RKO81 K"
3785	26-1-2013	1810	UGU8: Russian Navy clg UGU26
5092	26-1-2013	2323	RBEG: Russian Navy Vessel ip 5LGs
3755	27-1-2013	1814	RTS: Russian Navy Magadan received messages from RBN3, UGU26 & UGU4
4885	30-1-2013	1933	RCIV: Russian Naval Vessel i.p. "...ZZD ? ii ZZD ii RCV de RCIV ZZU ZZT 3852" (wants simplex QSO on 3852 kHz)



M89

Chinese military

Stations, strings and callsigns:

VVV Q2M Q2M Q2M DE NYZ NYZ	DE PGNI
V 7NPE 7NPE 7NPE DE QV5B QV5B	UDQ5 DE 6Q8E
V DKG6 DKG6 DKG6 DE 3A7D 3A7D	6DFG DE YDW4
V GKVZ GKVZ GKVZ DE Q7NW Q7NW (not heard after 6-1)	VVV KSKH
V RXP7 RXP7 RXP7 DE CZT2 CZT2	VV XSG2 DE UT.Q K
V H2FL H2FL H2FL DE DRV8 DRV8	VV SJL3 DE UTQU
V WITN WITN WITN DE GNXG GNXG	V D7NU 33U5
V JF3M JF3M JF3M DE LG5P LG5P	VV SJL3 DE U... K
V MW3D MW3D MW3D DE 2SLC 2SLC	VV EWGS DE UTEQ K

Messages

3329 kHz, 09-01, 1350 UTC:

7N4D 3NTD 4D3T T57U UA74 (Cont'd)
AR

3363 kHz, 09-01, 1410 UTC:

QSL 1....
DE PGNI
GB (1312z silent)

3343 kHz, 09-01, 1444 UTC:

D3TA AUT4 46.. (Cont'd)
AR QSL ? K
OK NR 16 K//B (Both stations on same freq)
R RPT 13W ..
R HR RP. 13W TO 15W 3.6 6J39 BJ92 K
R OK QSL 1 EEE RPT QSL 22.. K//B
R U MSG GA K
R HR MSG GA CY
HR MSG NR 036/CCK CK ..63 0209 2230 RMKS 62.5 TO ..317 .
R GA K
R BT BT

3395 kHz, 09-01, 1820 UTC:

DE 6Q8E
VV UDQ5 DE 6Q8E K
VV EE
VV DMU5F DE 6Q8E K
R QSA 2 K
R R OK NIL SK GB AR (1824z silent)

4238 kHz, 09-01, 1929 UTC:

3A5D UD74 D764 3TN5 (Cont'd)
AR
VV .OP3 DE YDW4 K (Poor copy)
R6JW
TU
D.UD7 K
R 63W
3T53 3..3 K
RPT K
B.Z. NR 02 K
VV MSW DE Y.W4 K
QRM PSE QSY L. EEE 63W 3T.. 3T53 K
R ... NR 22 K

..D6 63A7 .7AD 5DAU .. (Cont'd)

3396 kHz, 09-01, 1716 UTC:

674N 5TN4 6U6. 56A5 A475 UN4N ... (Cont'd)

AR K
RPT 79 W BT
U6G. U6.N AR K
OK

Switched to Voice at 1720z. Switched to some sort of data mode at 1720z.
Back to voice at 1723z, then back to data mode. Silent at 1725z

3287 kHz, 10-01, 2100 UTC:

QSA 2 AR
AR//B
VVV KSKH QSA 2 K//B
QSA 2 AR
AR//B (Silent - 2101z)

7602 kHz, 11-01, 1237 UTC:

= = 36AU D546 46AU D53A NUTA 6U73 5643 (Cont'd)
AR QSL ?
HR WK NR 10

3642//7602 kHz, 11-01, 1553 UTC:

6763 UA65 DT5A TATA T6U. AR QSL ?
HR WK NR 23

4581 kHz, 11-01, 1407 UTC:

AR K K.
QSL 2210 K. K K
SK SK R TU (Silent – 1409z)

5555 kHz, 11-01, 1744 UTC:

ANAU 76N4 D3T. TDT4 557U ... (Cont'd)
AR
= 6... NM. (Silent 1748z)

4786 kHz, 11-01, 1447 UTC:

TU A2.1/C.D3II
= 161/.2D3 AR
VV XSG2 DE UT.Q K
R R QS. K K
R R AS AS
VV SJL3 DE UTQU
VV SJ.. DE U.. K
R R QSL K K
RPT TIME 224.
R R R RPT 1.T54A T54A K
...W = = 635N 635N K
R R PT K
R R PT 5.W UATN AATNTT
VV EWGS DE... K K
VV EWGS DE U.Q. K
R QSL K
RR. G. 2253 2253 K
RR PT 9337UT 37. K
R R PT 4.W 4TU 54 TU5 K
RR PT 4.W 3A4N 3A4N AR K
S..SK SK (1602z silent)

4225 kHz, 14-01, 1630 UTC:

/6454 6847/6303
MSG NR 0. CCK CK 25 37 0115 0030 RMKS 3083 TO
6733/3493/8783/6.54/6492/6454/6847/6303 = =
3664 TAA4 1. A7 TTN3 A3T4 T674 TA73 TT44 ATN3 7TUA 4ND5 5D4A
47D5 6..7 NT43 6547 U547 7TDT 653N 734. A45T 35UN 65A3 AR AR

5230 kHz, 25-01, 1319 UTC:

VV 6DF EEE
VV 6DFG DE YB.4 K
R R. GA R GA
QSL0343 K
.. LSB WK
(1941z – to voice)

3329 kHz, 10-01, 1513 UTC:

U5D4 63T3 6U5U 47UA 6747 (Cont'd)

3329 kHz, 10-01, 1652 UTC:

DN74 NUN4 5DN5 AN4U 436U ATDA 36U6 (Cont'd)
AR

3237 kHz, 10-01, 1443 UTC:

AR K
RPT 34W = TN
RPT 34W BT UTN4 UTN4 =
R GA K
R .. K
R GA K
,34 AA (Silent – 1447z)

3341 kHz, 11-01, 1422 UTC:

47T6 5U33 AND. .3T U4A6 D65. (Cont'd)
AR K
= 5.74 TNDN TA54 AR K
= 57N.. 5774 AR K
NR PT K
V D7NU 33U5 AR K
..ND5. AR K
N = UTAN TDN4 AR K
... UTAN AR K
N = 6..4 6UT4 AR K
63W = A364 A364 AR K
N = UN3. UN3A AR K
N = A5.N EEE = A5NN N43U AR K
N GI. W TO 76W = U57N 773D A56T T3T4 AR K
N N
SK (1430z silent)

4786 kHz, 11-01, 1810 UTC:

DU63 N356 ... (Cont'd)
AR
.... DE UTE. K
QSL ? K
63W BT.UA DE 4UA.
R = 3. .. K
VV SJL3 DE U... K
VV EWGS DE UTEQ K
QSL ? K
R AS
..Y QSY
QSY QSY 16 16 QSY 16 16 QSY 16 16 K
... K
QSA . K
.. 3U4 7.U4 K
79W 37UN 37UN K
R R A VA VA VA
VV EW.S DE U... K
... QSY QSY QSY 111 QSY NH 91. .
VV DE UTEQ
QSY ...
... MSG K
MSG MSG MSG NR NR 5. 947 T.0302 35 RMKS ... (Fading badly)

5500 kHz, 22-01, 1115 UTC:

VV TC9 UGT COMM = = = 6369/1010/73/3083 AR
VV TC8 VVV TC92
VV TC9 UGT COMM = 636D

9/5585/EEEE
RMKS 5329/5585/531./COMM/.200.LZ.92A9/5.27.5585 AR
QSL ?
HR WN EEE HR WK NR 170

4444 kHz, 30-01, 2045 UTC:

= 47NA 4V? 534T 635. 5N6A 5DTA 746M
47NA 4E 34T6 35U4 5N6 A.
AR AR AR AR
ANAL . AR AR
== = 63T7 7UD5 ? ? 5T75 T4356D A5NU T6.. U67AV ??
67AU 43N6 ? 4UU? 43ND D..N
4.?
346D DNA4 ? DNADE NEDNA447N ... 3F? ?
7.. 737? ? U? "
43 K
67.36 3UG A3UTD A5A DA5T757374UAX7456DU4N5N6 ?
N67D D6TA NA : 7A533G 4 AR AR
II II = = II = II = II = TE = = = = =
NR NR NNNR NR NR NR NR NR NR NR NR NR 555N N5U ? N5UT TA3U 45N7
37D ? 37DT 46A7 U4A7 DA34 N56D 63DT 63AN D4N7 675A ...AU3 4TTA3U
6U.D 7UDN 5T764 D35 ? ?
4D35 =734 A.D D ? 4U.D 657N 3ATT D6NU ..AU 5DNV ? 5DNU 467A
4D3T 43N5 T753 AUN6 4UAD 3DN4 5T6. 77T6 A ? 7T6A 5 ? 45N7
NDU ? D3UA 536U D4T7 ? 57 ? 7V 73TD 4N56 436N A4? A34T 4ATU
UT65 AT6D 37UN D5A7 DD67 NN5T 3657 DA36 TT47 ND5U 4A4U
335T AA7U 64DU N6?? 6T3U ND ? ND4 ? ND56 43N7 76TD 43.. (2054z –
Silent)
(Handsent – groups run together)
(Very weak station in tfc in background – mostly U/R - 2057z)

3330 kHz, 31-01, 1258 UTC:

RMKS 94W80 TO 4884 UGT COMM.. =
21961/4884/2130/237NR/.438 AR
= 21961/4884/2EEE =
21961/4884/2130/237NR/9438 AR
(Return to round slip 1300z)

VV TC9 UGT COMM = = 6369/1010/73/3083 AR (Silent – 1115z)

5207 kHz, 24-01, 0107 UTC:

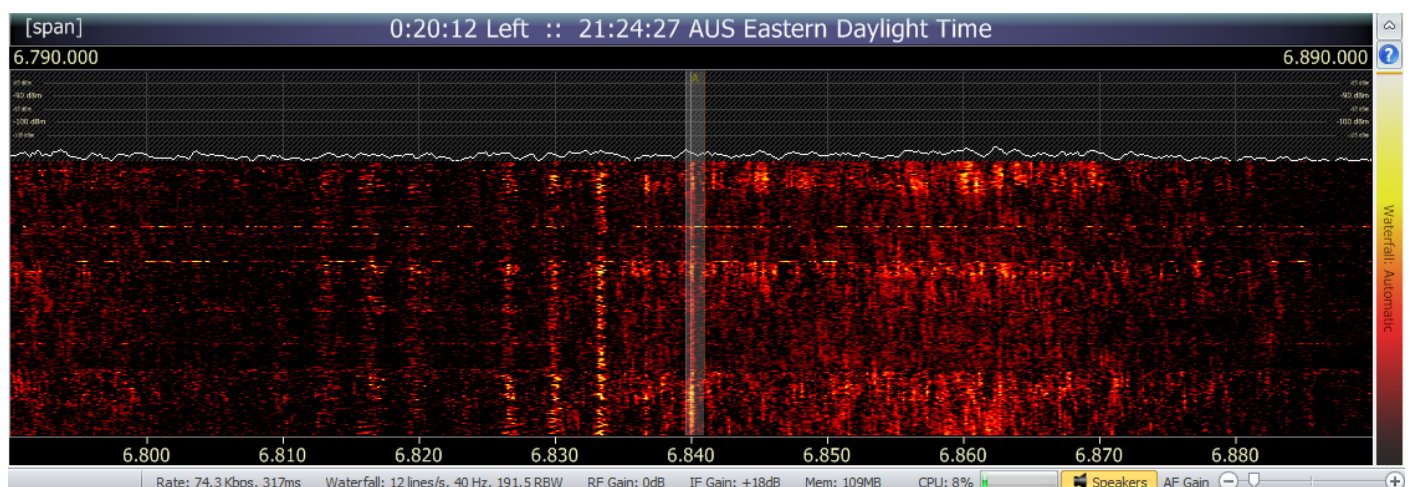
AS
HR MSG GA
MSG NR 076 NR 076 NR 076 CK 99 1801 24 0910 =
4NUA 4.ID ND76 4UD3 DT5. 7T.. (Cont'd)
AR
QSL ? K
QSL 0910 K *//B (much weaker)
U MSG GA K
NR MSG NR 074 CK 99 1801 24 09..* =//B
AR
QSL ... K //A
R RPT
27W K//A
RRPT 27W
7UG. K
R R RPT 2.
R QSL 0920 K //A
HR WK NR 45 K//A
R R ..18 K//B
R HR NIL SK//A
R ..//B

4444 kHz, 31-01, 1209 UTC:

AGN AGN AGN AGN AGN AGN 7G
AGN 1AT EEE U EEE AGN ..EEE AGN 10.3..TO .1. (1213z)(Faded)
AGN AGN AGN AS AS AS AS AS AS
QSY TO. 1 NR 01 K
QSY TO NR 01/01 K
A QSY TO NR 03/03 K
A QSY TO NR 03/3 K
K K
A QSY TO NR 03/03 K
K A QSY TO NR 03 NR 03 K
AS
.WTY TO EEE U QSY TO 5555 U QSY TO 5555 K
U QSY TO 5555 K
(Silent – 1226z)

6830 kHz, 31-01, 1120 UTC: VVV VVV VVV Q2M Q2M Q2M DE NYZ NYZ QSA ? K
Normal freq is 6840 kHz

Note: JPL was using the Australian SDR Remote tuner. Visually he saw a signal appear on 6830 which turned up to be NYZ. Visually, he could also see 3 signals. One on 6830, another on 6833 and yet another on 6827. There was also another image of these 3 signals centered on 6818. Possibly transmitter problems. Below a screen shot made by JP.





M97

Vietnamese numbers

Frequency: 10375 kHz
Mode: Morse

10375 kHz, 17-01, 1500 UTC: SD80 0k SN55 (5FG) SD79 0k SN60 (5FG)
Daily sked.

VARIOUS MODES



SK01 / HM01

Dirección General de Inteligencia

10715	HM01	7-1-2012	2243	AM/RDFT	In progress, header 74421 68646 ?2116 74224 261?5 ?????, not all ending in 1, VERY difficult copy, largely intelligible, abrupt cut 2250
16180	HM01	12-1-2012	2058	AM/RDFT	preamble 88716 17384 72856 81157 21735 72143 (again each group +1 from yesterday's)
9065	HM01	2-1-2013	0845	AM/RDFT	in progress
9240	HM01	2-1-2013	0900	AM/RDFT	in progress
16180	HM01	5-1-2013	2130	AM/RDFT	in progress
17480	HM01	5-1-2013	2200	AM/RDFT	Usual three groups ending in 1, then voice and RDFT.
17540	HM01	5-1-2013	2302	AM/RDFT	Carrier started on time, voice was late.
11530	HM01	7-1-2013	2256	AM/RDFT	Header 74421 68646 ?2116 74224 261?5 ...
9065	HM01	9-1-2013	0815	AM/RDFT	5FGs followed by data
9065	HM01	9-1-2013	0840	AM/RDFT	5FGs followed by data
11530	HM01	9-1-2013	2300	AM/RDFT	56545 52116 74224 55864 26015 74421. Before start at 2258 UTC "5654" and "1" (x 14)
11530	HM01	9-1-2013	2305	AM/RDFT	Late tune in. Header 56545 52116 74224 55864 26015 74421, repeated at 2329 UTC.
11530	HM01	9-1-2013	2329	AM/RDFT	Header 56545 52116 74224 55864 26015 74421, repeat of 2300 UTC.
16180	HM01	10-1-2013	2100	AM/RDFT	in progress
10715	HM01	10-1-2013	2200	AM/RDFT	preamble 88715 17383 72855 81156 21734 72142 (last figures in all groups +1 from day before)
17480	HM01	10-1-2013	2214	AM/RDFT	header 88714 17382 72854 81155 21733 72141 in progress.
11530	HM01	10-1-2013	2259	AM/RDFT	voice started at 2259 with same preamble as 10715.
17480	HM01	10-1-2013	2259	AM/RDFT	started over at 2259, cut abruptly at 2300.
17540	HM01	10-1-2013	2302	AM/RDFT	started up (late) on this frequency with the 17480 still running as per 17480, without going back to start, so it was already in progress at air time.
10715	HM01	11-1-2013	2158	AM/RDFT	preamble 88715 17383 72855 81156 21734 72142 (note each group +1 from yesterday).
10715	HM01	11-1-2013	2200	AM/RDFT	???? 88917 17383 72875 ??176 21734
11530	HM01	11-1-2013	2259	AM/RDFT	preamble 88715 17383 72855 81156 21734 72142. Cut abruptly at 2338.
17480	HM01	12-1-2013	2200	AM/RDFT	preamble 88716 17384 72856 81157 21735 72143
17540	HM01	12-1-2013	2258	AM/RDFT	preamble 88716 17384 72856 81157 21735 72143
9063	HM01	13-1-2013	0806	AM/RDFT	callup includes 81175
11635	HM01	13-1-2013	2058	AM/RDFT	17051 17385 16111 81158 21736 72144, where groups #2, 4, 5, and 6 are yesterday +1, others are new.
10715	HM01	13-1-2013	2201	AM/RDFT	17051 17385 16111 81158 21736 72144
11530	HM01	13-1-2013	2258	AM/RDFT	17051 17385 16111 81158 21736 72144

9065	HM01	14-1-2013	0800	AM/RDFT	17384 72856 81157 21735 72143 88716
9065	HM01	14-1-2013	0832	AM/RDFT	88176 17384 72876 -OP mistake ??-
9065	HM01	14-1-2013	0833	AM/RDFT	17051 17385 16111 81158 21736 72144
11530	HM01	14-1-2013	2300	AM/RDFT	17052 17386 16112 21511 36131 72145
16180	HM01	15-1-2013	2100	AM/RDFT	64441 17053 17387 16113 21712 36132
16180	HM01	15-1-2013	2135	AM/RDFT	In progress, cut abruptly at 2154. (15-Jan-2013) (HS)
17480	HM01	15-1-2013	2200	AM/RDFT	Voice right on time with preamble 17053 17387 16113 21512 36132 64441 (all but grp #6 yesterday +1).
11635	HM01	16-1-2013	2135	AM/RDFT	In progress, good signal and audio, preamble 17053 17387 16113 21512 36132 64441 (same as yesterday)
10715	HM01	16-1-2013	2203	AM/RDFT	Preamble 17053 17387 16113 21512 36132 64441
11530	HM01	16-1-2013	2258	AM/RDFT	Preamble 17053 17387 16113 21512 36132 64441
11530	HM01	16-1-2013	2306	AM/RDFT	single 5FG's by Spanish speaking YL followed by RDFT data bursts
9065	HM01	18-1-2013	0800	AM/RDFT	64442 17034 65611 16114 21513 36133
10715	HM01	18-1-2013	2158	AM/RDFT	5FG's voice + RDFT
11530	HM01	18-1-2013	2300	AM/RDFT	5FG's voice + RDFT
12180	HM01	19-1-2013	1000	AM/RDFT	64443 17055 65612 16115 21514 36134
10715	HM01	20-1-2013	2200	AM/RDFT	64445 66112 65614 16117 18061 36136
9065	HM01	21-1-2013	0800	AM/RDFT	64445 66112 65614 16117 18061 36136
11530	HM01	22-1-2013	2300	AM/RDFT	64446 66113 65615 33751 18062 36137
10715	HM01	23-1-2013	2200	AM/RDFT	64448 66115 78701 33753 18064 88472]
11530	HM01	26-1-2013	1700	AM/RDFT	DGI
16180	HM01	26-1-2013	2140	AM/RDFT	i.p. 5FG's + RDFT
17480	HM01	26-1-2013	2158	AM/RDFT	5FG's + RDFT
17540	HM01	26-1-2013	2258	AM/RDFT	5FG's + RDFT
5855	HM01	27-1-2013	0503	AM/RDFT	YL/SS numbers & RDFT
9240	HM01	28-1-2013	0900	AM/RDFT	53383 78707 72261 46872 88456 03804
17480	HM01	31-1-2013	2230	AM/RDFT	53387 66433 72265 36671 33333 87403
17540	HM01	31-1-2013	2334	AM/RDFT	53387 66433 72265 36671 33333 87403

M42, M42a & X06



Modes:
Various digital modes, voice, CW,
Tones (Мазелка / Mazielka)

Russian Government & Intelligence



frequency	date	UTC	mode	remarks
16348	1-1-2013	1010	FSK 200/1000	Russian Intel. 0-msg
14494	1-1-2013	1020	FSK 200/1000	Russian Intel. 0-msg
11079	1-1-2013	1025	Baudot 200/500	Russian Gov/Intel. 140 blocks; 417 gr.
9162	1-1-2013	1035	Baudot 200/500	Russian Gov/Intel. 140 blocks; 417 gr.
10158	1-1-2013	1210	FSK 200/1000	Russian Intel. 18; 37 blocks
8023	1-1-2013	1220	FSK 200/1000	Russian Intel. 18; 37 blocks
5793	3-1-2013	2000	FSK 200/500	Russian Intel
4538	3-1-2013	2010	FSK 200/500	Russian Intel

frequency	date	UTC	mode	remarks
3827	3-1-2013	2020	FSK 200/500	Russian Intel
6793	8-1-2013	2200	FSK 200/1000	Russian Intel. 0-Msg
5320	8-1-2013	2210	FSK 200/1000	Russian Intel. 0-Msg
4028	8-1-2013	2220	FSK 200/1000	Russian Intel. 0-Msg
7752	8-1-2013	2300	FSK 200/1000	Russian Intel. 0-Msg
6795	8-1-2013	2310	FSK 200/1000	Russian Intel. 0-Msg
4030	8-1-2013	2320	FSK 200/1000	Russian Intel. 0-Msg
14630	11-1-2013	1432	CROWD-36	Russian diplo. Crypto msgs
16330	13-1-2013	1107	CROWD-36	Russian diplo. Tone call then several messages
16340	13-1-2013	1129	CROWD-36	Russian diplo.
14630	13-1-2013	1403	CROWD-36	Russian diplo. Frequent tone calls and messages
6866	13-1-2013	1752	CROWD-36	Russian diplo.
10175	14-1-2013	0800	FSK 200/1000	Russian Intel. 13 Blocks
8153	14-1-2013	0810	FSK 200/1000	Russian Intel. 13 Blocks
6807	14-1-2013	0820	FSK 200/1000	Russian Intel. 13 Blocks
7610	15-1-2013	0705	RUS-ARQ 100/1000	Russian Gov/Intel.
7630	15-1-2013	0707	RUS-ARQ 100/1000	Russian Gov/Intel.
7732	15-1-2013	0708	FSK 200/500	Russian Intel.
7780	15-1-2013	0714	RUS-ARQ 100/500	Russian Gov/Intel.
8068	15-1-2013	0720	FSK 200/1000	Russian Intel. 54 blocks
8104.75	15-1-2013	0727	RUS-ARQ 100/1000	Russian Gov/Intel.
10175	15-1-2013	0800	FSK 200/1000	Russian Intel. 13 blocks
13989.75	15-1-2013	0858	RUS-ARQ 100/1000	Russian Gov/Intel.
7861	15-1-2013	1700	FSK 200/1000	Russian Intel. 0-msg
5383	15-1-2013	1710	FSK 200/1000	Russian Intel. 0-msg
16175.85	16-1-2013	0710	RUS-ARQ 100/2500/3CH	Russian Gov/Intel.
8068	16-1-2013	0726	FSK 200/1000	Russian Intel. 34 blocks
18280	16-1-2013	0754	RUS-ARQ 100/1000	Russian Gov/Intel.
18320	16-1-2013	0755	RUS-ARQ 100/1000	Russian Gov/Intel.
6832.0	16-1-2013	0833	CW	rwu rwu rwu 55297 1t992 55297 1t992 55297 1t992 ar rwu rwu rwu 19931 t929t 19931 t929t 19931 t929t ar rwu rwu rwu 66
19313	16-1-2013	1000	FSK 200/1000	Russian Intel. 0-msg
12154	16-1-2013	1200	FSK 200/1000	Russian Intel. 37 blocks
10158	16-1-2013	1210	FSK 200/1000	Russian Intel. 37 blocks
8023	16-1-2013	1220	FSK 200/1000	Russian Intel. 37 blocks
8068	17-1-2013	0720	FSK 200/1000	Russian Intel. 16; 60 blocks
16105.5	17-1-2013	0809	CROWD-36	Russian diplo
16320.5	17-1-2013	0810	CROWD-36	Russian diplo
7635	17-1-2013	0830	RUS-ARQ 100/500	RWA50: Russian Gov/Intel. Rostow na Donu
7650	17-1-2013	0830	RUS-ARQ 100/500	Russian Gov/Intel.
4538	17-1-2013	2016	FSK 200/500	Russian Intel.
14939	19-1-2013	0910	FSK 200/1000	Russian Intel. 18; 20 blocks
12221	19-1-2013	0920	FSK 200/1000	Russian Intel. 18; 20 blocks
12207	19-1-2013	0938	CW / Baudot 50/500	Russian Gov. NT9P sending 5FG msg to K4MT "QSY 76833 QRX 65884"
8068	21-1-2013	0718	FSK 200/500	Russian Intel.
8068	21-1-2013	0720	FSK 200/1000	Russian Intel. 18; 37 blocks
10175	21-1-2013	0800	FSK 200/1000	Russian Intel. 18; 41 blocks
8153	21-1-2013	0810	FSK 200/1000	Russian Intel. 18; 41 blocks
9162	21-1-2013	1035	Baudot 200/500	Russian Gov/Intel. 141 blocks; 421 gr.
12154	21-1-2013	1200	FSK 200/1000	Russian Intel. 18; 37 blocks
6822	22-1-2013	0642	Baudot 200/500	Russian Gov/Intel. 141 blocks; 423 gr.

frequency	date	UTC	mode	remarks
8083	22-1-2013	0650	Baudot 200/500	Russian Gov/Intel. 141 blocks; 423 gr.
12177	22-1-2013	0700	FSK 200/1000	Russian Intel. 21; 46 blocks
10293	22-1-2013	0710	FSK 200/1000	Russian Intel. 21; 46 blocks
8068	22-1-2013	0720	FSK 200/1000	Russian Intel. 21; 46 blocks
13490	22-1-2013	1015	Baudot 200/500	Russian Gov/Intel.
11079	22-1-2013	1025	Baudot 200/500	Russian Intel.
9163	22-1-2013	1035	Baudot 200/500	Russian Gov/Intel.
12176	23-1-2013	0700	FSK 200/1000	Russian Intel. 22; 36 blocks
10294	23-1-2013	0710	FSK 200/1000	Russian Intel. 22; 36 blocks
8068	23-1-2013	0720	FSK 200/1000	Russian Intel. 22; 36 blocks
16346	23-1-2013	0920	FSK 200/1000	Russian Intel. 22; 27 blocks
16348	23-1-2013	1010	FSK 200/1000	Russian Intel. 22; 32 blocks
13490	23-1-2013	1015	FSK 200/1000	Russian Intel. 139 blocks; 414 gr.
11079	23-1-2013	1025	FSK 200/1000	Russian Intel. 139 blocks; 414 gr.
9163	23-1-2013	1035	FSK 200/1000	Russian Intel. 139 blocks; 414 gr.
12154	23-1-2013	1200	FSK 200/1000	Russian Intel. 21; 36 blocks
10158	23-1-2013	1210	FSK 200/1000	Russian Intel. 21; 36 blocks
8023	23-1-2013	1220	FSK 200/1000	Russian Intel. 21; 36 blocks
12177	24-1-2013	0700	FSK 200/1000	Russian Intel. 23; 64 blocks
10293	24-1-2013	0710	FSK 200/1000	Russian Intel. 23; 64 blocks
8068	24-1-2013	0720	FSK 200/1000	Russian Intel. 23; 64 blocks
4040	25-1-2013	0552	RUS-ARQ 100/500	Russian Gov/Intel.
9239.75	25-1-2013	0703	RUS-ARQ 100/1000	Russian Gov/Intel.
16178.5	25-1-2013	1449	CROWD-36	Russian diplo
4769	30-1-2013	1915	CW/Baudot 50/500	Russian Gov/Intel. i.p. ... 97 1915 K. QTC NW (into printer) In progress. 5FGs. ... 46230 32053 35393 34256 3.351 97473 32149 42909 31389 38661 32434 35318 35356 30516 30975 49373 38107 46012 31336 31317 49186 37187 31702 35313 34686 37393 37814 31414 42#57 35875 32374 36582 31386 32053 39420 32832 35619 35050 31 0504 40817 94244 39739 37438 =200 CFM CFM NIL NIL SK SK GB.
12177	14-1-2013	1303	Mazielka	
18197	18-1-2013	1001	Mazielka. Sequence: 645321	
7731	24-1-2013	0542	Mazielka	
21825	24-1-2013	1122	Mazielka. Sequence: 314265	
7861	25-1-2013	1629	Mazielka	

Unid. Possible Russian Government nets

3370 kHz, 17-01, 1807 UTC, CW: RNM2: Unid Russian PtP link "VVV = REA REA DE RNM2 RNM2 QSA4"
5746 kHz, 17-01, 0545 UTC, CW: Same link as 3370 kHz
6832 kHz, 16-01, 0833 UTC, CW: rwu rwu rwu 55297 1t992 55297 1t992 55297 1t992 ar rwu rwu rwu 19931 t929t 19931 t929t 19931 t929t ar rwu rwu rwu rwu 66



XP family

7891/6791/5391 kHz, 03-01,
1900/1920/1940 UTC: XPA

873 873 873 000 873 873 873 000 873 873 873 000
6
Message start
08244 00001 00000 10140

7981/6791/5391 kHz, 08-01,
1900/1920/1940 UTC: XPA

873 873 873 1 873 873 873 1 873 873 873 1
6
Message Start
04414 02239 60501 45325 59754 14235997277 0000 44444 5400 07522 1221 2288 3911
2033 4444 31115 30285 66225 13593 1884 0274 01129 0029 11934 31133 77580 87573
72715 66573 3101 5199 21682 06825 53508 05300 75638 71241 57906 34648 61207
46852 69947 09506 33178 07471 00631 53894 18712 66446 94003 78313 12006 27058
97718 42939 41653 17080 65344 18703 21911 46734 13108 74257

Block Sync
52341 75662 63934 69123 76380 38627 10055 60657 43095 36299 13307 29465 61062
05126 99977 51199 38721 74315 81771 00796 6298 41002 22600 11744 43392 72910
83340 85370 44880 6677 8877 09889 00543 01135577965547768857779926564 68746
30602 16024 51771 86754 28255 88460 39527 73788 00281 41923 41043 99815 92973
64828 75784 36083 53894 39558 34898 60417 49774 35155 55157 37060 93685
Block Sync
70276 69521 92325 96192 10422 09068 84884 60391 57003 93973 52993 19413 74785
62158 68473 87089 28340 68776 24571 81860 35848 49956 60743 83512 50160 91031
14642 34359 91696 66841 45444 03354 99464 46281 51522 88775 42328 0446 13721
53049 55688776382 8509 0492 6636 9948 66888 7400 8845 99742 9375 1481 6511 8495
72883 94313 15576 68588 61723 16453 79014 90137 13721 62418
Block Sync
90252 46780 43275 88189 02549 80361 16066 00656 04427 85731 60108 76171 11819
63039 67525 59709 71642 00209 79982 51991 48372 63677 40067 53050 83197 34606
36222 77248 83112 31850 91701 54883 31035 04298 20930 17244 82881 24758 37201
27692 45462 00194 43573 84820 99084 13947 86827 88165 08456 56255

7891 kHz, 17-01, 1900 UTC: XPA

873 873 873 000 08244 00001 00000 10140

7891/6791/5391 kHz, 22-01,
1900/1920/1940 UTC: XPA

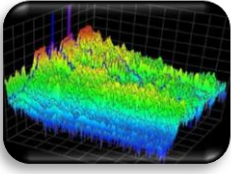
873 873 873 000 873 873 873 000 873 873 873 000
Block Sync
4444444444
Block Sync
6
Message Start
06354 00001 00000 10140

5391 kHz, 23-01, 1940 UTC: XPA

873 873 873 000 873 873 873 000 873 873

13923 kHz, 26-01, 1440 UTC: XPA2

05451 00065 637 78331 81528 55813 65333 08345 33246 1015 04233 91120 65682
73300 79116667300 66213 57996 64459976698 86428 03644 47786 55535660161 67430
56419 84833 38022 49278 97440 11621 72426 59202 13972 50065 58579 33007 83093
32459 4909 51837 01615 02914 79080 30106 68549 50459 90387 72204 95646 62304
17580 58489 56630 24264 20234 47055 02088 33918 99579 53817 54308 04558 28525
30465 62737 64515



XM

3185 kHz, 25-01, 0528 UTC, 2017 UTC
3210 kHz, 25-01, 0528 UTC
3898 kHz, 25-01, 1408 UTC
4130 kHz, 25-01, 1130 UTC
5320 kHz, 25-01, 0528 UTC
5322 kHz, 25-01, 0648 UTC



Polish Intelligence *E11 family*

Leif Dehio sent me a note about the digital counter parts of E11/G11/S11a. These FSK transmissions have irregular schedules - try for instance 6836 kHz USB at 0800 UTC during weekdays. The FSK has an offset of about +1600Hz (CF is 6837.60 kHz) Baudrate is 99.90Bd and the shift is around 617Hz.

Besides the voice and FSK transmissions Polish intelligence also regularly sends images on HF that surely must contain some sort of steganographic data. There is no solid proof yet but it's pure speculation based on logic. The mode used is a 51-tone OFDM waveform that is part of the WinDRM and EasyPal SW packages.

These transmissions often show up close to channels that have either been used for E11/S11/G11 transmissions or their 100 Bd digital counterpart. The transmissions have been going on for some years now and images sent are always inconspicuous looking motives showing animals or landscapes (preferably images from arid or semi-arid areas). The file name syntax looks like this: 121218072954-VN (10).jp2 (see picture). The first part shows the date of transmission YY-MM-DD followed by the time in UTC.

Leif writes *"Callsigns used on the OFDM transmissions have been KH4M, TT7OP and ZK3X, which make them look like amateur radio calls. Some listeners have spotted Polish "op chat" using the waterfall mode. These transmissions have been linked to Polish pirates (outbanders) in the past on the UDXF list but I'm quite sure there is more behind this operation.*

Why?

- *The signals are always very strong, quite similar to the regular Polish intel voice and data comms and too strong for a pirate/outbender operation*
- *Images are always sent twice per schedule (identical to the 100 Bd FSK transmissions)*
- *Characteristic transmitter noise similar to E11 & Co. most transmissions are about 60-100 Hz higher than the designated channel, a behaviour I have seen on E11/G11/S11 transmissions as well.*
- *Professional behaviour of the operators"*

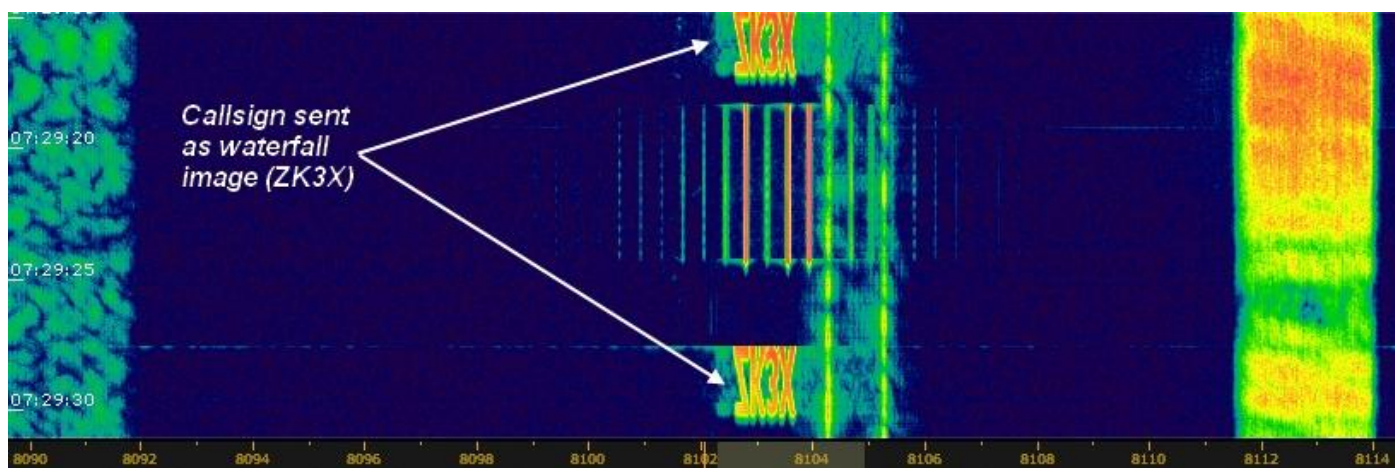


The actual image that was sent on the 18 Dec. is shown on the left. It does contain some minor decoding errors, as you can see in the rectangular area in the middle of the image.

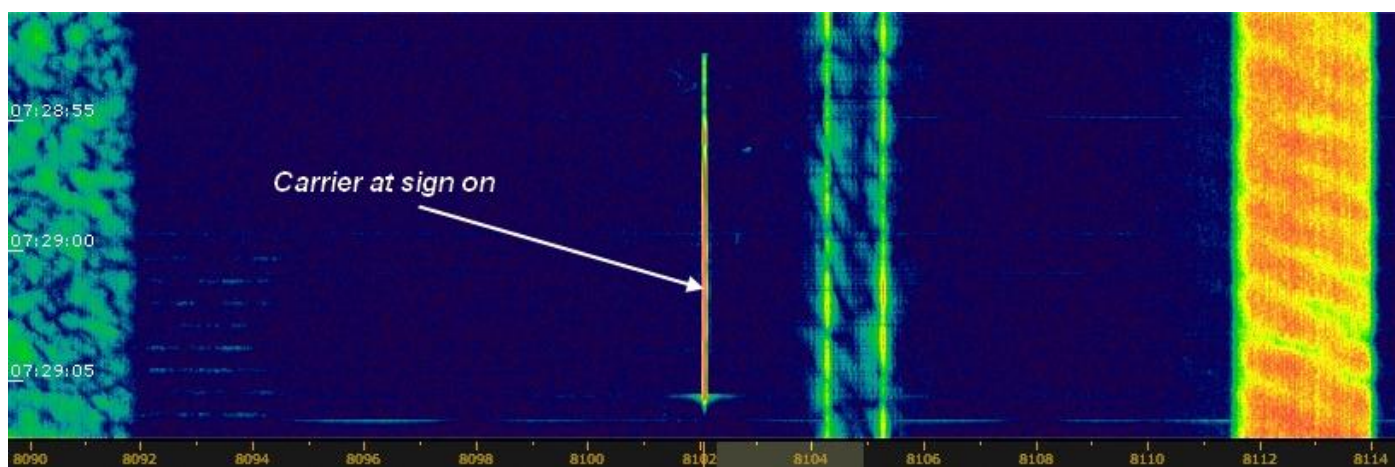
You can find the recording of the complete transmission on the N&O website.

Below are some images made during a transmission on 8102 kHz USB between 0729 and 0735 UTC on December 18th, 2012.

121218072954-VN (10).jp2



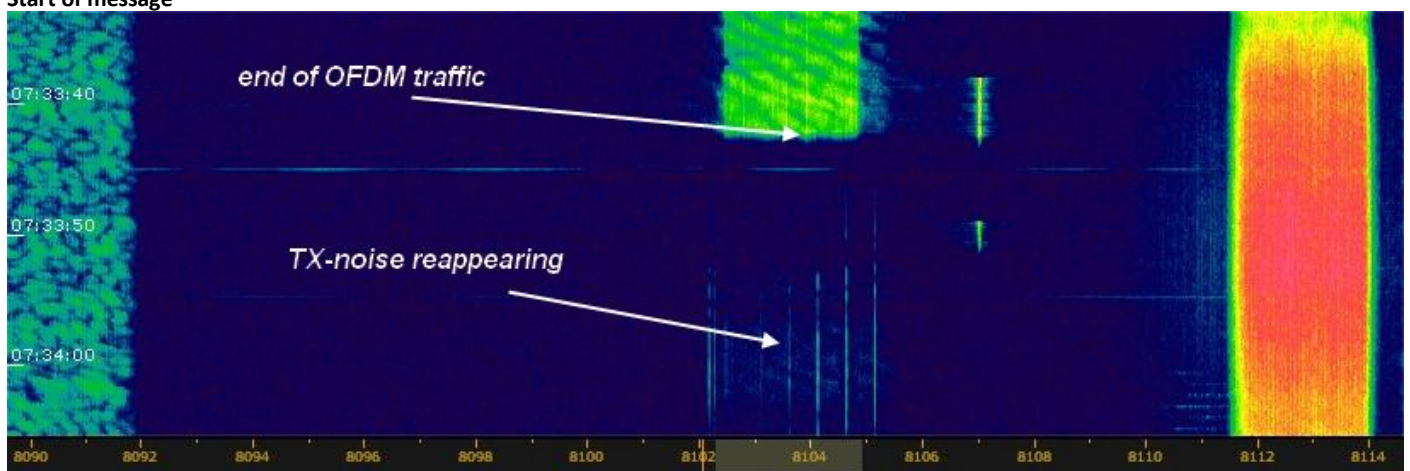
Callsign sent as waterfall



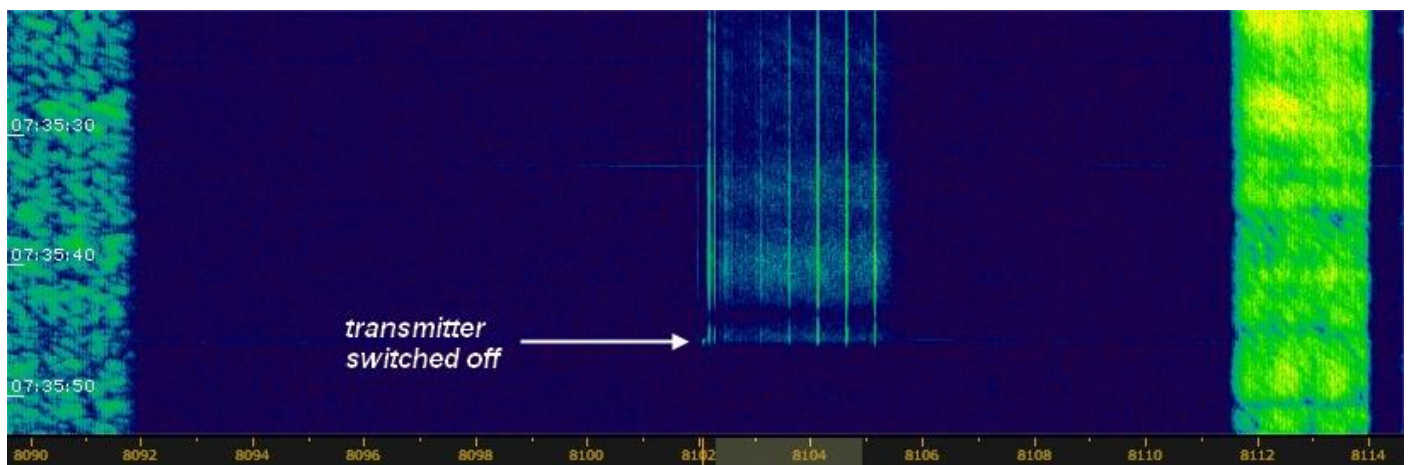
Sign on



Start of message



End of message



End of transmission



North Korean diplomatic stations

21003.5 kHz, 18-12, 1506 UTC, DPRK-ARQ 600/600: North Korean embassy Habana, Cuba with diplo traffic



Egyptian diplomatic stations

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

16313.7 kHz, 23-01, 1119 UTC, SITOR-A/CODAN: MFA Cairo. Ended with 5555////1111 JTQG
16339.7 kHz, 22-01, 1434 UTC, SITOR-A: MFA Cairo. Classified ATU80 texts
16161.7 kHz, 25-01, 1443 UTC, SITOR-A: MFA Cairo. Plain text ATU80 messages



Sudanese diplomatic stations

21000.0 kHz, 09-12, USB MFA Khartoum calling embassy Yemen for Pactor 1 traffic, whistling male persons
21002.1 kHz, 09-12, Pactor 1 100/170 MFA Khartoum with embassy Yemen

UTILITY ROUND-UP



U.N. MINURSO

Map: <http://www.un.org/Depts/Cartographic/map/profile/wsahara.pdf>

MINURSO is the United Nations peacekeeping mission in Western Sahara.

The name is a French or Spanish acronym for "Mission des Nations Unies pour l'Organisation d'un Référendum au Sahara Occidental", or Misión de las Naciones Unidas para la Organización de un Referéndum en el Sáhara Occidental - English for "United Nations Mission for the organization of a Referendum in Western Sahara"

Both Patrick and Linkz copied the MINURSO net in January.

The net has a daily radio check on 6678 kHz at 2100 UTC. Besides USB voice the MINURSO stations also use the CCIR 493-4 selcall system. Linkz forwarded the CCIR 493-4 ID list. Thanks for that.

535701 UN Tindouf
561701 UN Laayoune (voice ID: Lima base)
562701 UN Smara
562716 ? poss mobile unit ?
562721 UN Mehaires
562741 UN Tifariti
562761 UN Bir Lalhou
562781 UN Mahbas
564701 UN Oum Dreyga
564721 UN Agwanit
564741 UN Mijek
564761 UN Awsard



Polish Air Force

Tony copied the Polish Air Force again.

6354 kHz, 09-01, 0740 UTC. Male operator in USB.

VCQWA PVCR? HUWCT NBWUT JNAUW KIOPL IW??T REWQA JGTYU CQ???
FLKMU RDFGV Over
Charlie Charlie (Ops speak for "thats correct")
YL replies, possibly to callsign 2HD

6354 kHz, 24-01, 0740 UTC, USB. Comms in Polish.

3VM to 3NQ
APGE Roscha (Meaning rozdia or in English "chapter" – thanks Danix)
QWEDF JKMNH RFGVF RTYHJ UKIOL OLLLL OIUYT DFGVB HJNH YTGFE
3VM to 3NQ (Faint readback)
VOM Received (Faint readback)
FKM Received (Faint readback)
HUM Received

3VM to 3NQ
TGFDE ASDCF GBHFV DERSW QAZSX EDCFV GBHJN MKJNH JUIJN HHYTR HHJNH RTGVB FGVCD SXZAS JHJUK IJHNJ YUIJK
FVGFR Roscha
APGE HVIC
3NQ (to) VOM (Readback Polish)
VOM Received (Faint readback)
FKM Received (Faint readback)
HUM received

Recording: <https://soundcloud.com/atcmansch/23-Jan-2013-0740-6-354MHz>

Tom writes *"These happen every Wednesday from my deductions, probably starting at 0730z as it seems the message sequence has already started (I start recording a numbers station on an adjacent frequency at 0740z. I've been informed this is a training station but is it? Unless they're training at different bases around the country (Poland) as the signals are different strengths from each unit. To me it seems there's a HQ (in this case 3VM) sending out to a collective callsign (3NQ) and all the elements within the collective reply that they've received the message - maybe orders or such like. I guess it could be a training message though, with a central school or unit."*



Beacons

"L" beacon on 6668 kHz, unid location. Heard on various dates by dxers in the USA.



Unid stations

Two unids supplied by Geir.

Voice messages ongoing on 5580 kHz past 1615 UTC on 04-01. First a lengthy transmission by a female voice, followed by a male voice in an unid language. Tom says that this station is on the air for more than a year and can be heard around 0400/0500 UTC with what sounds like tracking details transmitted into the blind.

Geir also copied an unid station on 6655 kHz, 09-01 at 1838 UTC. It sounds Arabic. Some numbers are in French. Can anyone understand what is said? Any idea who this is?

Both recording can be found in the UDXF files section and on the UDXF website.

On 24-01 the station was also copied by Max in The Netherlands.

Mike copied an unid station on 2925 kHz, 10-01, 2028 UTC in CW. It transmitted an odd callsign. I heard the station very faint at 2055 UTC while it was working with at least one other station. The other station was also very faint.

“VVV CQ CQ CQ de 3TRIODO 3TRIODO 3TRIODO k”

Lupo tells us that this is the night frequency of an Italian outbander net for vintage and home-brewed transmitter enthusiasts.

Two unids submitted by JPL.

3765 kHz, 17-01, 1623 UTC. Unid station in progress

512 62665 62665 (1624z)

111000 111000 111000 (1626z)

CFM 62665 512 512 512 62665 SK (1629z)

4468 kHz, 17-01, 2146 UTC. Unid station in progress

863 863 (2146z)

000 (2148z)

It sent short zeros. There was a 2 minute gap before the zeros were sent. The 3 zeros were sent one after the other with no pause between.

And one from Bruno:

3444.4 kHz, 25-01, 2154 UTC, CW: CQ DE 'CQ CQ CQ DE 3NA 3NA 3NA 3NA K CQ CQ DE 3NA 3NA 3NA K



Unid 10 minutes network

Thanks to Attu for the update of the still unid “10-minutes network”

3859 kHz, 12-01, 1647 UTC: L6YC: unid beacon/channel marker, stopped at 1655 UTC, last noted active Dec 2010 on 3207 kHz.
3207 kHz, 12-01, 1750 UTC: TCJK: unid beacon/channel marker, stopped at 1700 UTC. New callsign for this group, unusual to have 3207 kHz and 3859 kHz both active at different times.



Intelligence news

Scotland plans to set up its own security and intelligence agencies if its people vote in favor of independence from the United Kingdom in 2014, according to policy planners. But critics contend that it might be some time before Scotland's spy organizations are trusted by their sister intelligence agencies in Britain and the United States. The Scottish National Party (SNP) which won an absolute majority in the Scottish Parliament in the 2011 election, has put forward a plan for a referendum proposing Scotland's full independence from the UK, to be held in late 2014. (IntelNews.org - 29 January)



Takcu Taxi

Good conditions in the mornings of 12 and 13 January. I also copied a number of taxi's on 20, 26 and 27 January.

I copied a number of taxi companies from CIS/Russia/Ukraine on the following frequencies:

26275, 26515, 26525, 26555, 26585, 26605, 26625, 26655, 26730, 26775, 26795, 26805, 26815, 26915, 26945, 26985, 27035, 27055, 27065, 27075, 27175, 27280, 27285, 27295, 27300, 27305, 27325, 27330, 27345, 27355, 27365, 27375, 27385, 27390, 27395, 27400, 27425, 27430, 27435, 27525, 27735, 27745, 27765, 27755, 27760, 27765, 27775, 27805, 27835, 27845, 27925, 27965, 27975, 27985, 28175, 28185, 28735, 28885, 28895, 28914, 28920, 28930, 28945, 28955, 28960, 28964 kHz.



27Mc

Besides a large number of taxi stations I also heard several pirate stations and Alfa Tango amateurs. Most of them transmitted in FM and some in USB.

27070	12-01	0853	Unid Russian pirate. Pop music and announcements in Russian. Audible until ca 1045 UTC.
27070	26-01	1403	Unid Russian pirate. Music and chats.
27070	27-01	0805	Unid Russian music pirate
27125	13-01	0825	Various Dutch AT stations
27125	26-01	1420	Dutch pirate station with music and long chats. Heard several times until 2230 UTC
27125	27-01	0805	Dutch pirate stations
27135	26-01	0755	Unid Russian station. Lady reading messages every 4-5 minutes in USB.
			Lots of other stations on that freq.
27135	27-01	0917	Turkish station
27150	27-01	0847	Turkish station
27190	26-01	1206	Ukrainian stations chatting
27200	12-01	1000	Unid Russian pirate with pop music and chats.
27200	26-01	1357	Unid Russian pirate with music and chats
27215	12-01	0923	Turkish operators chatting
27215	13-01	0829	Various Dutch AT stations
27215	26-01	0902	Turkish AT station from Istanbul wkg various Turkish stations. Also at 1355 UTC
27220	26-01	0926	Various Russian stations chatting
27230	27-01	0850	Russian stations chatting
27240	27-01	0855	Russian stations chatting
27255	27-01	0852	Unid language chatting
27244	12-01	0908	Russian operators chatting in Russian
26425	26-01	0852	Turkish AT station from Istanbul wkg various Russian AT stations

27270 12-01 0904 Station from Moscow wkg various stations in English and Russian
 27305 13-01 0830 Various German AT stations
 27375 13-01 0916 Various Dutch AT stations
 27390 12-01 0823 Unid Slavic station. Chats
 27460 13-01 0833 Unid Slavic station. Chats
 27545 13-01 0834 Various Dutch AT stations including 19AT920

Various days and times:

Chats in Russian on 27100, 27170, 27200, 27229, 27255, 27290, 27935, 28105 en 28115 kHz FM

Intelligence profile

Bahamas



BACKGROUND

Lucayan Indians inhabited the islands when Christopher COLUMBUS first set foot in the New World on San Salvador in 1492. British settlement of the islands began in 1647; the islands became a colony in 1783. Since attaining independence from the UK in 1973, The Bahamas has prospered through tourism and international banking and investment management. Because of its geography, the country is a major transshipment point for illegal drugs, particularly shipments to the US and Europe, and its territory is used for smuggling illegal migrants into the US.

GENERAL

Country name: Commonwealth of The Bahamas (The Bahamas)
 Capital: Nassau
 31 Districts: Acklins Islands, Berry Islands, Bimini, Black Point, Cat Island, Central Abaco, Central Andros, Central Eleuthera, City of Freeport, Crooked Island and Long Cay, East Grand Bahama, Exuma, Grand Cay, Harbour Island, Hope Town, Inagua, Long Island, Mangrove Cay, Mayaguana, Moore's Island, North Abaco, North Andros, North Eleuthera, Ragged Island, Rum Cay, San Salvador, South Abaco, South Andros, South Eleuthera, Spanish Wells, West Grand Bahama

MILITARY BRANCHES

Royal Bahamas Defense Force: Land Force, Navy, Air Wing

INTELLIGENCE & SECURITY

Ministry of Security
 National Security Council
 Security and Intelligence Branch (SIB)
 Defence Force Intelligence Branch (DFIB)
 Financial Intelligence Unit (FIU)
 National Intelligence Agency (NIA)

The **Ministry of Security** is responsible for The Royal Bahamas Defence Force, Royal Bahamas Police Force, the prisons and the Parliamentary Registration Department

The **National Security Council** is responsible for the command, discipline and administration of the Defence Force and for all other matters in relation to the Defence Force. The members of the Security Council are the Prime Minister, who is the Chairman; the Minister responsible for Defence; other Ministers as may be appointed by the Prime Minister; other persons as may be appointed by the Prime Minister for such periods, as he shall specify.

The **Security and Intelligence Branch**, also known as Special Branch, is the main domestic intelligence and security service in the Commonwealth of the Bahamas. It is part of the Bahamas Police and it is mandated to perform intelligence operations inside the Bahamas to ensure the safety of Bahamian citizens and foreigners. The branch is also mandated to perform background checks on persons who have been recruited for jobs such as police officers and defence force officers and to check persons up for promotions.

The Ministry of National Security is working on a new intelligence agency, according to a press conference in August 2012.

The **National Intelligence Agency (NIA)** is still in an embryonic stage said the Minister of State.

The NIA will collect and transmit valuable intelligence to various law enforcement agencies to aid in the government, fight against smuggling and terrorism. The Minister states that the NIA will be different from the Special Intelligence Branch (SIB) of the Royal Bahamas Police Force (RBPF). The NIA will be the umbrella organization that deals with all matters relating to national security.

Financial Intelligence Unit (FIU)

The FIU is responsible for receiving, analysing, obtaining and disseminating information that relates to or may relate to proceeds of crime in an effort to combat money laundering and terrorist financing. Its target audience is Financial Institutions as defined by the Financial Transaction Reporting Act (FTRA), the regulatory bodies for all financial institutions, and the general public at large. Any individual concerned with combating proceeds of crime as dictated by the Proceeds of Crime Act, while detecting criminal activity relating to money laundering and terrorist financing can approach the FIU.

The Director is appointed by the Minister responsible for the Financial Intelligence Unit, in accordance with Section 3 of the Financial Intelligence Unit Act 2000. Legal Counsel and Accountant positions are also statutory. All other positions in the FIU are based solely upon the discretion of the Director after consultation with the Management Team.

The FIU has involved itself extensively in working with financial intelligence units in the Caribbean. The agency provides training to the financial services sector in respect to Anti Money Laundering/Combating the Financing of Terrorism (AML/CFT) as mandated by law.

SOURCES / RELATED WEBSITES / FURTHER INFORMATION

Security and Intelligence Branch (SIB)

<http://www.royalbahamaspolice.org>

Financial Intelligence Unit (FIU)

<http://www.bahamas.gov.bs>

CIA World Factbook

Wikipedia

Statute Law of the Bahamas

Intelligence profile ***Barbados***



BACKGROUND

The island was uninhabited when first settled by the British in 1627. Slaves worked the sugar plantations established on the island until 1834 when slavery was abolished. The economy remained heavily dependent on sugar, rum, and molasses production through most of the 20th century. The gradual introduction of social and political reforms in the 1940s and 1950s led to complete independence from the UK in 1966. In the 1990s, tourism and manufacturing surpassed the sugar industry in economic importance.

GENERAL

Country name: Barbados
Capital: Bridgetown
1 City: Bridgetown
11 Parishes: Christ Church, Saint Andrew, Saint George, Saint James, Saint John, Saint Joseph, Saint Lucy, Saint Michael, Saint Peter, Saint Philip, Saint Thomas

MILITARY BRANCHES

Royal Barbados Defense Force: Troops Command, Barbados Coast Guard

INTELLIGENCE & SECURITY

The Barbados Financial Intelligence Unit / Anti-Money Laundering Authority

Regional Security System

Units of the Royal Barbados Police Force

Units of the Barbados Defence Force

There is no independent intelligence agency in Barbados. Intelligence gathering is carried out by units or divisions within the RBFP or in the BDF.

Regional Security System

In October 1982 four members of the Organization of Eastern Caribbean States, namely Antigua and Barbuda, Dominica, St. Lucia and St. Vincent and the Grenadines, signed a Memorandum of Understanding (MOU) with Barbados, to provide for "mutual assistance on request". St. Kitts and Nevis joined after gaining independence in September 1983 and Grenada. This Treaty makes provisions, that depending on the nature or extent of the emergency, each country may assist the other Member country with security units if requested. In some instances there may be a requirement for only police officers or Coast Guard personnel whilst another may require a combined response where the police officers, Special Service Unit (SSU) personnel, military and Coast Guard personnel are deployed together.

The **Anti-Money Laundering Authority (AMLA)** is the body established under section 5 of the Money Laundering (Prevention and Control) Act, Cap. 129 to supervise financial institutions in an effort to prevent money laundering and terrorist financing. The Anti-Money Laundering Authority (AMLA) maintains oversight of the national Anti-Money Laundering/Counter-Financing of Terrorism (AML/CFT) framework.

In accordance with Section 6B, the executive functions of the Authority are carried out by the Financial Intelligence Unit (FIU) which is headed by the Director and comprised of other public officers. This Unit is responsible for the day to day work of the Authority.

The Money Laundering (Prevention and Control) Act, Cap. 129 ascribes to AMLA the responsibility of supervising financial institutions, making it the principal supervisory entity in the fight against money laundering in Barbados. The Financial Intelligence Unit on behalf of the Authority receives reports of suspicious or unusual transactions from financial institutions. The reports are then analysed and information disseminated to the relevant competent authorities.

SOURCES / RELATED WEBSITES / FURTHER INFORMATION

Financial Intelligence Unit <http://www.barbadosfiu.gov.bb>
RBPF <http://www.barbadospolice.gov.bb>
CIA World Factbook
Wikipedia

Intelligence profile

Barbados



BACKGROUND

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MILITARY BRANCHES

Royal Barbados Defense Force: Troops Command, Barbados Coast Guard

INTELLIGENCE & SECURITY

The Barbados Financial Intelligence Unit / Anti-Money Laundering Authority
Regional Security System
Units of the Royal Barbados Police Force
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SOURCES / RELATED WEBSITES / FURTHER INFORMATION

Financial Intelligence Unit <http://www.barbadosfiu.gov.bb>
RBPF <http://www.barbadospolice.gov.bb>
CIA World Factbook
Wikipedia

Intelligence profile **Jamaica**



BACKGROUND

The island - discovered by Christopher COLUMBUS in 1494 - was settled by the Spanish early in the 16th century. The native Taino Indians, who had inhabited Jamaica for centuries, were gradually exterminated and replaced by African slaves. England seized the island in 1655 and established a plantation economy based on sugar, cocoa, and coffee. The abolition of slavery in 1834 freed a quarter million slaves, many of whom became small farmers. Jamaica gradually increased its independence from Britain. In 1958 it joined other British Caribbean colonies in forming the Federation of the West Indies. Jamaica gained full independence when it withdrew from the Federation in 1962. Deteriorating economic conditions during the 1970s led to recurrent violence as rival gangs affiliated with the major political parties evolved into powerful organized crime networks involved in international drug smuggling and money laundering. Violent crime, drug trafficking, and poverty pose significant challenges to the government today. Nonetheless, many rural and resort areas remain relatively safe and contribute substantially to the economy.

GENERAL

Country name: Jamaica
Capital: Kingston
14 Parishes: Clarendon, Hanover, Kingston, Manchester, Portland, Saint Andrew, Saint Ann, Saint Catherine, Saint Elizabeth, Saint James, Saint Mary, Saint Thomas, Trelawny, Westmoreland

MILITARY BRANCHES

Jamaica Defense Force: Ground Forces, Coast Guard, Air Wing

INTELLIGENCE & SECURITY

Jamaica Constabulary Force
Military Counter Intelligence Unit
Jamaica Defence Force Intelligence Unit
National Intelligence Bureau
Ministry of National Security

The **Ministry of National Security** is directly responsible for two Departments: the Jamaica Constabulary Force (JCF) and the Department of Correctional Services (DCS). Each has its own mandate and delegated responsibilities for management of all operational matters. In addition, the Ministry acts as the ministerial 'home' for the Jamaica Defence Force (JDF). The JDF is directly accountable to the Minister of Defence who is also the Prime Minister. There is currently no formal Ministry of Defence and all defence matters are dealt with by a Defence Board which includes the Minister of National Security and the Permanent Secretary. Currently, the MNS manages the JDF budget and undertakes some routine administrative functions on

its behalf.

The **Military Counter Intelligence Unit (MCIU)** was established in 1976 as a part of the Headquarters Jamaica Defence Force. It was formed primarily to mitigate against the effects of subversion of members of the Force. The role subsequently expanded to involve the development of operational intelligence in support of JDF Units involved in Internal Security Operations.

In 1983, the MCIU was renamed Headquarters **Jamaica Defence Force Intelligence Unit (HQ JDF Int Unit)**. It was also given full Unit status under command of a Lieutenant Colonel.

The mission of the HQ JDF Int Unit is to provide timely and accurate intelligence to meet the needs of the JDF and the Nation. To achieve this, the Unit focuses on a multiplicity of areas of intelligence interest, namely:

- Joint Operations;
- Personnel security;
- Protective security;
- National political and socio-economic issues;
- Domestic industrial relations; and
- Regional political, economic and security issues.

The HQ JDF Int Unit collects, collates and disseminates intelligence in the following areas to the Jamaica Constabulary Force (JCF) and the JDF where applicable:

- Operational Intelligence related to the operations of the various JDF Units deployed on both Internal Security and Conventional Operations, locally and overseas.
- Counter Narcotics Intelligence on local narcotics trends and drug trafficking activities within Jamaica and to foreign destinations.
- Criminal Intelligence on Jamaican crime trends, which involves the monitoring and assessment of criminal activities in Jamaica.
- Industrial Intelligence in the industrial relations arena, with emphasis on the essential services and other national security interests.
- Security Intelligence to facilitate the assessment of threats and risks to the JDF and guide the implementation of protective security measures

National Intelligence Bureau

The Jamaica Constabulary Force Narcotics Division, Operation Kingfish and the Major Investigation Task Force merged to become the National Intelligence Bureau (NIB) and will be strengthened from appropriate elements of the Special Branch, which will no longer exist.

Additionally, the Crime and Operations portfolios are combined in a bid to get better coordination of these areas along with intelligence, community safety and territorial policing. A Communication Intelligence Unit and a Digital Forensics Sub Unit have been set up in an effort to bolster the National Intelligence Bureau. Officers who will man these units have been specially trained to provide support to detectives in locating and developing evidence when communication technology is used to commit crimes.

SOURCES / RELATED WEBSITES / FURTHER INFORMATION

Jamaican Defense	http://www.jdfmil.org
Ministry of National Security	http://mns.gov.jm
Constabulary Force	http://www.jcf.gov.jm/
Government	http://www.jis.gov.jm
CIA World Factbook	https://www.cia.gov/library/publications/the-world-factbook/

Numbers & Oddities

~~SENSITIVE~~
~~TOP SECRET~~

LOGS SECTION

Freq.	date	UTC	enigma	mode	day	remarks	contributor
2399.5	24-1-2013	1759	M32	CW	Thu	NMWX: CIS mil. traffic with ZASR ZMM ZON ZRA QYT1	(PPA)
2600	24-1-2013	1814	M32a	CW	Thu	RMAE: Russian navy ship. Weather in Russian ending RMAE QRU	(PPA)
2667	30-1-2013	1907	M32	CW	Wed	VLBA: Russian Mil. NCS "... de VLBA ZYX ZZN ZNU ZRP ZOU ZZC ZWB ZBQ K. de Z.OJ (repeats back) K. BAVA de LROP" (repeats back) K. Nothing further.	(MPJ)
2680	12-1-2013	2226	M22	CW	Sat	VVV DE 4XZ 4XZ = = AR AR NW QTD1 NR 772	(LG2)
2692	3-1-2013	2030	M32	CW	Thu	TMWY: Russian Mil. ip: ... 925 = ZÖNOÄ UGWIÖ ... WTGTA QKQCQ _____ K. SXL_ de TMWY QTC K. TMWY __0 32 __14 = ____ = ÖUQZ_ QJRDN ...	(MPJ)
2822	24-1-2013	1724	M32	CW	Thu	Russian Mil. CORJ clg KBTD	(BCI)
3160.5	7-1-2013	1904	M32	CW	Mon	RGT77 RGT77 990 = EChCYT DSWRX SÖIÜV PUFD? UACHQÜ PRBLH XXBJF VÖFII ITZGS PCUHC JDGXV GNZLK PUPCP = K //3177.5 kHz	(TR2)
3161	3-1-2013	2042	M01b	CW	Thu	382 731 731 30 30 = = 35796 67483 20503 00208 98325 ... 35562 84935 = = 731 731 30 30 0 0 0. //3162.3 kHz	(MPJ)
3161.1	3-1-2013	2042	M01b	CW	Thu	ip, 382 (R) 731 731 30 30 = = 35796 35796...msg...49358 49358 = = 731 731 30 30 000	(Q-HOL)
3161.1	17-1-2013	2042	M01b	CW	Thu	i.p.	(Q-HOL)
3162	23-1-2013	2142	M32	CW	Wed	Russian Mil. WAEO WAEO DE BRI8 BRI8 QSA?K then again to YODV	(LG2)
3164	4-1-2013	1933	M51	CW	Fri	ip, "...01 20:46:23 1985 bt jgxos..."	(Q-HOL)
3172	19-1-2013	1930	S06	AM	Sat	426 0	(HFD)
3177.5	7-1-2013	1904	M32	CW	Mon	RGT77 RGT77 990 = EChCYT DSWRX SÖIÜV PUFD? UACHQÜ PRBLH XXBJF VÖFII ITZGS PCUHC JDGXV GNZLK PUPCP = K //3160.5 kHz	(TR2)
3181	11-1-2013	2110	M01b	CW	Fri	610 731 30 = = 35796 67483 20503 00208 98325 ... 35562 84935 = = 731 30 0 0 0	(MPJ)
3185	24-1-2013	2017	XM	USB	Thu	in progress	(Q-HOL)
3185	25-1-2013	0528	XM	USB	Fri	"whales" in progress	(Avare)
3192	3-1-2013	1900	S06	USB	Thu	349 349 349 00000	(Q-HOL)
3207	12-1-2013	1750	---	CW	Sat	TCIK: unid beacon/channel marker, stopped at 1700 UTC. New callsign for this group	(AtB)
3207	16-1-2013	1703	M32	CW	Wed	Russian Mil. LOZE clg 1OTE	(BCI)
3210	25-1-2013	0528	XM	USB	Fri	"whales" in progress	(Avare)
3217	12-1-2013	1930	M32	CW	Sat	Russian Mil with radio checks. HK6C DE 8JO1. Q2Z5 DE 8JO1. MR6C DE 8JO1	(TR2)
3237	10-1-2013	1443	M89	CW	Thu	In tfc: AR K. RPT 34W = TN. RPT 34W BT UTN4	(JPL)
3261	30-1-2013	1858	M32	CW	Wed	ESUP: Russian Mil. NCS "XXX ESUP 52288 FRUKT 4658 K"	(MPJ)
3274	17-1-2013	1828	M32	CW	Thu	CIS military XXX XXX 851Q 851Q 96811 KOTARNICA 840Z3 96811 K	(PPA)
3287	10-1-2013	2100	M89	CW	Thu	In chat: QSA 2 AR. AR//B. VVV KSKH QSA 2 K/	(JPL)
3298	6-1-2013	1934	UADv	LSB	Sun	Ukrainian Mil. in progress	(MAUK/ASH)
3298	12-1-2013	1934	UADv	USB	Sat	Ukrainian Air Defence	(TR2)
3322	26-1-2013	0006	M21	CW	Sat	Russian Air Defence =990416??0?????	(LG2)
3322	30-1-2013	2243	M21	CW	Wed	Russian Air Defence (PVO) =992247??0?????	(MPJ)
3323	1-1-2013	1842	S21	USB	Tue	almost unreadable	(Q-HOL)
3323	8-1-2013	1842	S21	USB	Tue	323 (R) 214 214 30 30 msg 214 214 30 30 000 //3823	(Q-HOL)
3323	15-1-2013	1842	S21	USB	Tue	OM/RR unreadable //3823	(Q-HOL)
3323	17-1-2013	1810	M01	CW	Thu	5FGs message	(PPA)
3323	17-1-2013	1842	S21	USB	Thu	323 (R) 214 214 30 30 msg 214 214 30 30 000 //3823	(Q-HOL)
3323	24-1-2013	1840	S21	USB	Thu	ip, OM, very weak //3823	(Q-HOL)
3323	31-1-2013	1842	M01	CW	Thu	...msg[5FSG pairs] 7 8 1 9 9 7 8 1 9 9 == 428 428 3t 3t 000	(Q-HOL)
3329	9-1-2013	1350	M89	CW	Wed	In tfc: 7N4D 3NTD 4D3T T57U UA74 AR	(JPL)
3329	9-1-2013	1419	M89	CW	Wed	V MW3D (x3) DE 2SLC (x2) (Cont'd)	(JPL)
3329	9-1-2013	1656	M89	CW	Wed	V MW3D (x3) DE 2SLC (x2) (Cont'd)	(JPL)
3329	10-1-2013	1403	M89	CW	Thu	V MW3D (x3) DE 2SLC (x2) (Cont'd)	(JPL)
3329	10-1-2013	1513	M89	CW	Thu	In tfc: U5D4 63T3 6U5U 47UA 6747 (Cont'd)	(JPL)
3329	10-1-2013	1652	M89	CW	Thu	In tfc: DN74 NUN4 5DN5 AN4U 436U ATDA 36U6	(JPL)
3329	11-1-2013	1405	M89	CW	Fri	V MW3D (x3) DE 2SLC (x2) (Cont'd)	(JPL)
3330	10-1-2013	1815	M89	CW	Thu	v mw3d mw3d mw3d de 2slc 2slc	(AtB)
3330	30-1-2013	1645	M89	CW	Wed	V MW3D (x3) DE 2SLC (x2) (Cont'd)	(JPL)
3330	30-1-2013	2016	M89	CW	Wed	V MW3D (x3) DE 2SLC (x2) (Cont'd)	(JPL)
3330	31-1-2013	1244	M89	CW	Thu	V MW3D (x3) DE 2SLC (x2) (Cont'd)	(JPL)
3330	31-1-2013	1258	M89	CW	Thu	Tfc: RMKS 94W80 TO 4884 UGT COMM.. = 21961/	(JPL)
3341	11-1-2013	1422	M89	CW	Fri	In tfc: 47T6 5U33 AND. .3T U4A6 D65. (Cont'	(JPL)

Freq.	date	UTC	enigma	mode	day	remarks	contributor
3343	9-1-2013	1444	M89	CW	Wed	In tfc: D3TA AUT4 46.. (Cont'd) AR QSL ? K	(JPL)
3363	9-1-2013	1410	M89	CW	Wed	In tfc: QSL 1.... DE PGNI GB	(JPL)
3370	17-1-2013	1807	---	CW	Thu	RNM2: Unid Russian PtP link "VVV = REA REA DE RNM2 RNM2 QSA4"	(PPA)
3388	9-1-2013	1412	M89	CW	Wed	In tfc	(JPL)
3395	9-1-2013	1820	M89	CW	Wed	In chat: DE 6Q8E. VV UDUQ5 DE 6Q8E K. VV DMU	(JPL)
3395.5	13-1-2013	----	M32a	CW	Sun	RFH71: Russian Navy LS Novochoerkassk "rcv de rfh71 qyt4 qsx 4045 k"	(WP3)
3395.5	13-1-2013	0005	M32a	CW	Sun	REL5: Russian Navy "rcv de rel5 428 17 13 0355 428 = for rjh45 rje73 rje65 = 13001 99443 10351 41/98 90507 10030 40119 54000 70022 8//// 22212 00080 2//// 13013 = + rel5 k"	(WP3)
3395.5	14-1-2013	0005	M32a	CW	Mon	RCJG: Russian Navy AO Ivan Bubnov "rcv de rcjg 107 18 14 0400 107 = sml for rjh45 rje73 = 14001 99352 10346 41498 41002 10150 40272 57020 70221 84200 22200 00150 20000 88000 14014 = + rcjg k"	(WP3)
3395.5	15-1-2013	2001	M32a	CW	Tue	Russian Navy Sevastopol "RIR96 DE RCV QYT4 QSX 3572,5"	(PPA)
3395.5	22-1-2013	2136	M32a	CW	Tue	RLD67: Russian Navy "rcv de rld67 qrr3 qdw? k"	(WP3)
3395.5	23-1-2013	0004	M32a	CW	Wed	RCJG: Russian Navy AO Ivan Bubnov "rcv de rcjg 311 18 23 0400 311 = sml for rh45 rje73 = 23001 99358 10348 41998 03104 10160 40151 54000 70100 70000 22200 00160 20000 88000 23014 = + rcjg k")	(WP3)
3396	9-1-2013	1716	M89	CW	Wed	In tfc: 674N 5TN4 6U6. 56A5 A475 UN4N ... ((JPL)
3500.5	9-12-2012	2025	M32a	CW		Russian Navy. c/s RCP, RJ56	(IARUMS)
3526	9-1-2013	1920	E06	AM	Wed	218 218 218 00000	(Avare)
3593.7	11-1-2013	2055	MX	CW	Fri	Beacon "D" Odessa/Sevastopol	(MPJ)
3593.7	11-1-2013	2202	MX	CW	Fri	Beacon "D"	(AB)
3593.7	21-1-2013	2008	MX	CW	Mon	Beacon "D"	(AB)
3593.7	28-1-2013	2159	MX	CW	Mon	Beacon "D"	(AB)
3593.8	11-1-2013	2055	MX	CW	Fri	Beacon "P" Kaliningrad	(MPJ)
3593.8	11-1-2013	2202	MX	CW	Fri	Beacon "P"	(AB)
3593.9	11-1-2013	2057	MX	CW	Fri	Beacon "S" Severomorsk	(MPJ)
3593.9	11-1-2013	2202	MX	CW	Fri	Beacon "S"	(AB)
3593.9	21-1-2013	2008	MX	CW	Mon	Beacon "S"	(AB)
3593.9	28-1-2013	2159	MX	CW	Mon	Beacon "S"	(AB)
3642	7-1-2013	0035	M89	CW	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	(JPL)
3642	8-1-2013	0129	M89	CW	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5230	(JPL)
3642	9-1-2013	1700	M89	CW	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	(JPL)
3642	11-1-2013	0028	M89	CW	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5230	(JPL)
3642	11-1-2013	1444	M89	CW	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	(JPL)
3642	11-1-2013	1553	M89	CW	Fri	In tfc: 6763 UA65 DT5A TATA T6U. AR QSL ? H	(JPL)
3642	14-1-2013	0019	M89	CW	Mon	V DKG6 de 3A7D. Same txn but not simultaneous with 5230 kHz.	(MPJ)
3642	27-1-2013	2241	M89	CW	Sun	V DKG6 de 3A7D	(MPJ)
3642	30-1-2013	2014	M89	CW	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	(JPL)
3658	11-1-2013	2202	MX	CW	Fri	Beacon "V"	(AB)
3658	12-1-2013	2210	MX	CW	Sat	Beacon "V" Khiva	(AB)
3658	17-1-2013	1919	MX	CW	Thu	Beacon "V"	(AB)
3658	29-1-2013	1838	MX	CW	Tue	Beacon "V"	(AB)
3658	30-1-2013	2138	MX	CW	Wed	Beacon "V"	(AB)
3724	9-1-2013	1835	M89	CW	Wed	V WITN (x3) DE GNXX (x2) (Cont'd)	(JPL)
3724	10-1-2013	1411	M89	CW	Thu	V WITN (x3) DE GNXX (x2) (Cont'd) //7607	(JPL)
3724	11-1-2013	1412	M89	CW	Fri	V WITN (x3) DE GNXX (x2) (Cont'd)	(JPL)
3724	13-1-2013	2214	M89	CW	Sun	V WITN (x3) DE GNXX (x2) (Cont'd) //7607	(JPL)
3755	10-1-2013	1802	M32a	CW	Thu	RTS: Magadan msg's for RBN3	(AtB)
3755	25-1-2013	1803	M32a	CW	Fri	RTS: Russian Navy Magadan clg UGU5	(AtB)
3755	27-1-2013	1814	M32a	CW	Sun	RTS: Russian Navy Magadan received messages from RBN3, UGU26 & UGU4	(AtB)
3756	10-1-2013	2140	S30	CW	Thu	Pip marker	(AB)
3756	18-1-2013	2001	S30	CW	Wed	Pip Marker	(Daunt)
3756	19-1-2013	1543	S30	CW	Thu	Pip Marker	(Daunt)
3756	30-1-2013	1712	S30	CW	Wed	Pip Marker - 3756 - 1712 UTC	(Daunt)
3756	31-1-2013	1750	S30	CW	Thu	until 1757 UTC also on 6512 kHz	(AB)
3765	17-1-2013	1623	---	CW	Thu	in progress. 512 62665 62665 111000 111000 111000 CFM 62665 512 512 512 62665 SK	(JPL-FNL)
3775	27-1-2013	2123	M32	CW	Sun	VL6R: Russian Mil. Comms check with at least 1DVZ, PR6Z, Z19O, DQP9	(MPJ)
3776	9-1-2013	1426	M89	CW	Wed	V H2FL (x3) DE DRV8 (x2) (Cont'd) (/3797	(JPL)
3785	26-1-2013	1810	M32a	CW	Sat	UGU8: Russian Navy clg UGU26	(AtB)

Freq.	date	UTC	enigma	mode	day	remarks	contributor
3793.8	29-1-2013	2046	S32	USB	Tue	Squeaky Wheel //3828 kHz	(AB)
3797	9-1-2013	1426	M89	CW	Wed	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3776	(JPL)
3797	10-1-2013	1507	M89	CW	Thu	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	(JPL)
3797	11-1-2013	1417	M89	CW	Fri	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	(JPL)
3797	29-1-2013	1128	M89	CW	Tue	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	(JPL)
3797	31-1-2013	1101	M89	CW	Thu	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	(JPL)
3797	31-1-2013	1240	M89	CW	Thu	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	(JPL)
3803	18-11-2012	2227	M18	CW		1829 1829 1829 1829 1830 1830 etc.	(IARUMS)
3803	9-1-2013	0031	M18	CW	Wed	0433 0433 0434 etc	(JPL-Rus)
3803	11-1-2013	2208	M18	CW	Fri	0308 0308 0308 0309 0309 etc.	(AB)
3803	12-1-2013	1816	M18	CW	Sat	2116 2116 2116 2117 2117 etc	(AB)
3803	17-1-2013	1920	M18	CW	Thu	0527 0527 0528 etc.	(AB)
3803	26-1-2013	1753	M18	CW	Sat	1808 1808 1808 1809 1809 etc.	(AB)
3803	26-1-2013	2010	M18	CW	Sat	2024 2024 2024 ...	(FN)
3823	8-1-2013	1842	S21	USB	Tue	323 284 30 14771 31895 58305... 92033 78199 284 30 000. Windows XP sound //3323 kHz	(Q/Avare)
3823	15-1-2013	1842	S21	USB	Tue	OM/RR unreadable //3323	(Q-HOL)
3823	17-1-2013	1842	S21	USB	Thu	323 (R) 214 214 30 30 msg 214 214 30 30 000 //3323	(Q-HOL)
3823	22-1-2013	1849	S21	USB	Tue	ip, OM, Russian language, almost unreadable	(Q-HOL)
3823	24-1-2013	1840	S21	USB	Thu	ip, OM, very weak //3323	(Q-HOL)
3826	3-1-2013	1941	M32	CW	Thu	CIS Mil. "OHJU DE VBUI OHJU DE VBUI QTC K WR4 BV1 75T55 32125 75T = 1W6 = 11111"	(BCI)
3826	3-1-2013	1948	M32	CW	Thu	CIS Mil. Ends 53-group message to unid: 47311 01415 ... 89993 03053 K.	(MPJ)
3826	27-1-2013	2136	M32	CW	Sun	MX1G: CIS Mil. K25S de MX1G K. Nothing further.	(MPJ)
3827	3-1-2013	2020	M42	FSK 200/500	Thu	Russian Intel	(HFD)
3828	10-1-2013	2139	S32	USB	Thu	Squeaky Wheel marker	(AB)
3828	18-1-2013	2002	S32	USB	Wed	Squeaky Wheel Marker	(Daunt)
3828	19-1-2013	1543	S32	USB	Thu	Squeaky Wheel Marker	(Daunt)
3828	25-1-2013	0507	S32	USB	Fri	Al'fa45 52 988 ETRAN 59 97 74 40 VISKARDAN 37 18 55 76 Priyom	(Avare)
3828	29-1-2013	2046	S32	USB	Tue	Squeaky Wheel //3793.8 kHz	(AB)
3838	24-1-2013	1905	S06	AM	Thu	349 0	(HFD)
3838	24-1-2013	1905	S06	USB	Thu	349 349 349 00000	(Q-HOL)
3838	28-1-2013	1905	S06	AM	Mon	349 0	(HFD)
3838.9	30-1-2013	1712	S32	USB	Wed	Squeaky Wheel Marker - 3828.9 - 17	(Daunt)
3843	17-1-2013	1905	S06	AM	Thu	349 349 349 00000	(PPA/Q-HOL)
3859	12-1-2013	1647	---	CW	Sat	L6YC: unid beacon/channel marker, stopped at 1655 UTC	(AtB)
3881	7-1-2013	0711	M51	CW	Mon	5LG blocks	(ML4)
3898	25-1-2013	1408	XM	USB	Fri	"whales" in progress	(Avare)
3947	10-1-2013	1844	M21	CW	Thu	Grid tracking, cut number format	(AtB)
4028	8-1-2013	2220	M42	FSK 200/1000	Tue	Russian Intel. 0-Msg	
4030	8-1-2013	2320	M42	FSK 200/1000	Tue	Russian Intel. 0-Msg	
4039	11-1-2013	2101	M32a	CW	Fri	Russian Navy Baltic Fleet, Severomorsk "RLO de RIT QTC 553 34 12 0057 553 = Radio prognos 12013 00001 ... 00612 30009 ="	(MPJ)
4040	25-1-2013	0552	M42	RUS-ARQ 100/500	Fri	Russian Gov/Intel.	(BCI)
4045	11-1-2013	1857	M21	CW	Fri	Grid tracking, cut number format	(AtB)
4079	5-1-2013	1638	M32a	CW	Sat	RMP: Navy Kaliningrad. Weather in Russian to REO	(PPA)
4157	7-1-2013	0550	M12	CW	Mon	417 000	(FN)
4225	11-1-2013	1415	M89	CW	Fri	V 7NPE (x3) DE QV5B (x2) (Cont'd)	(JPL)
4225	11-1-2013	1549	M89	CW	Fri	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	(JPL)
4225	13-1-2013	1551	M89	CW	Sun	V 7NPE (x3) DE QV5B (x2) (Cont'd)	(JPL)
4225	14-1-2013	1630	M89	CW	Mon	MSG NR 0. CCK CK 25 37 0115 0030 RMKS 3083	(JPL)
4225	15-1-2013	1425	M89	CW	Tue	V 7NPE (x3) DE QV5B (x2) (Cont'd)	(JPL)
4225	15-1-2013	1647	M89	CW	Tue	V 7NPE (x3) DE QV5B (x2) (Cont'd)	(JPL)
4225	17-1-2013	1605	M89	CW	Thu	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	(JPL)
4225	17-1-2013	2300	M89	CW	Thu	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	(JPL)
4225	18-1-2013	1518	M89	CW	Fri	V 7NPE (x3) DE QV5B (x2) (Cont'd)	(JPL)
4225	21-1-2013	1115	M89	CW	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	(JPL)
4225	23-1-2013	1613	M89	CW	Wed	In tfc V 7NPE (x3) DE QV5B (x2) (Cont'd)	(JPL)
4225	24-1-2013	1408	M89	CW	Thu	V 7NPE (x3) DE QV5B (x2) (Cont'd)	(JPL)
4225	24-1-2013	1528	M89	CW	Thu	V 7NPE (x3) DE QV5B (x2) (Cont'd)	(JPL)
4225	24-1-2013	2012	M89	CW	Thu	V 7NPE (x3) DE QV5B (x2) (Cont'd)	(JPL)

Freq.	date	UTC	enigma	mode	day	remarks	contributor
4225	29-1-2013	1615	M89	CW	Tue	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	(JPL)
4238	9-1-2013	1929	M89	CW	Wed	In chat: 3A5D UD74 D764 3TN5 (see N&O	(JPL)
4380	7-1-2013	0721	M21	CW	Mon	PVO	(ML4)
4433	17-1-2013	2154	M32	CW	Thu	Russian Mil. VJL2 DE HISJ K. R K	(TR2)
4441	4-1-2013	2000	G11	USB	Fri	266/31 04509 70883 98762 06643 41644 67778 36757 repeat, ende	(Avare/Q)
4441	6-1-2013	2004	G11	USB	Sun	ip, YL, GG, "...partial msg [5FSG pairs] ACHTUNG![2008] rpt msg [5f] ENDE	(Q-HOL)
4441	13-1-2013	2000	G11	USB	Sun	263/30	(Q-HOL)
4441	18-1-2013	2000	G11	USB	Fri	262/00	(Q/Daunt)
4441	20-1-2013	2000	G11	USB	Sun	262/00	(Q-HOL)
4441	23-1-2013	1445	E11	USB	Wed	287/00	(HFD)
4441	25-1-2013	2000	G11	USB	Fri	262/00	(MPJ/Q)
4441	26-1-2013	1445	E11	USB	Sat	287/00	(HFD)
4441	27-1-2013	2000	G11	USB	Sun	262/00	(Q-HOL)
4441	31-1-2013	0900	E11a	USB	Thu	244/33	(HFD)
4444	30-1-2013	2045	M89	CW	Wed	In tfc: = 47NA 4V? 534T 635. 5N6A 5DTA 746M	(JPL)
4444	31-1-2013	1209	M89	CW	Thu	In tfc: AGN AGN 1AT EEE U EEE AGN ..EEE AGN	(JPL)
4457	7-1-2013	0530	M12	CW	Mon	417 000	(FN)
4457	14-1-2013	0530	M12	CW	Mon	417 427 417 000	(FN/HFD)
4457	21-1-2013	0530	M12	CW	Mon	417 000	(FN)
4461	2-1-2013	2220	M12	CW	Wed	340 340 340 000	(FN/HFD)
4461	9-1-2013	2220	M12	CW	Wed	340 340 340 000 (R)	(Q-HOL)
4461	23-1-2013	2220	M12	CW	Wed	340 340 340 000	(Q-HOL/FN)
4468	17-1-2013	2146	---	CW	Thu	in progress. 863 863 000	(JPL-FNL)
4474	7-1-2013	0033	M89	CW	Mon	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	(JPL)
4474	8-1-2013	0134	M89	CW	Tue	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	(JPL)
4474	10-1-2013	1426	M89	CW	Thu	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	(JPL)
4474	11-1-2013	0026	M89	CW	Fri	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	(JPL)
4474	13-1-2013	0205	M89	CW	Sun	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	(JPL)
4474	13-1-2013	1749	M89	CW	Sun	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	(JPL)
4474	13-1-2013	2210	M89	CW	Sun	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	(JPL)
4474	14-1-2013	0031	M89	CW	Mon	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	(JPL)
4474	14-1-2013	2012	M89	CW	Mon	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	(JPL)
4474	15-1-2013	2100	M89	CW	Tue	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	(JPL)
4474	16-1-2013	1754	M89	CW	Wed	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	(JPL)
4474	16-1-2013	1919	M89	CW	Wed	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	(JPL)
4474	16-1-2013	2139	M89	CW	Wed	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	(JPL)
4474	17-1-2013	1612	M89	CW	Thu	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	(JPL)
4474	17-1-2013	1858	M89	CW	Thu	V RXP7 RXP7 RXP7 DE CZT2 CZT2	(PPA)
4474	17-1-2013	2129	M89	CW	Thu	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	(JPL)
4474	17-1-2013	2254	M89	CW	Thu	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	(JPL)
4474	18-1-2013	1347	M89	CW	Fri	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	(JPL)
4474	21-1-2013	0033	M89	CW	Mon	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	(JPL)
4474	21-1-2013	1414	M89	CW	Mon	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	(JPL)
4474	21-1-2013	2223	M89	CW	Mon	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	(JPL)
4474	22-1-2013	1655	M89	CW	Tue	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	(JPL)
4474	22-1-2013	1939	M89	CW	Tue	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	(JPL)
4474	23-1-2013	1625	M89	CW	Wed	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	(JPL)
4474	23-1-2013	2007	M89	CW	Wed	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	(JPL)
4474	24-1-2013	0100	M89	CW	Thu	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	(JPL)
4474	24-1-2013	1357	M89	CW	Thu	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	(JPL)
4474	24-1-2013	1520	M89	CW	Thu	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	(JPL)
4474	25-1-2013	1602	M89	CW	Fri	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	(JPL)
4474	25-1-2013	1926	M89	CW	Fri	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	(JPL)
4474	27-1-2013	1428	M89	CW	Sun	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	(JPL)
4474	27-1-2013	1740	M89	CW	Sun	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	(JPL)
4474	29-1-2013	1633	M89	CW	Tue	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	(JPL)
4474	30-1-2013	1510	M89	CW	Wed	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	(JPL)
4474	30-1-2013	1623	M89	CW	Wed	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	(JPL)
4474	31-1-2013	1510	M89	CW	Thu	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	(JPL)
4474	31-1-2013	1623	M89	CW	Thu	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	(JPL)
4483	3-1-2013	2150	E07	AM	Thu	744 744 744 1 (R) 427 62 427 62 msg 88215 ... 59317 000 000	(Q/Spec)

Freq.	date	UTC	enigma	mode	day	remarks	contributor
4490	1-1-2013	2004	M14	CW	Tue	ip, "...50521 50521 27093 27093 43137 43137 73833 73833 25822 25822 39404 3940 = = 257 30 257 30 000	(Q-HOL)
4490	3-1-2013	2000	M01	CW	Thu	197 127 127 30 30 msg 00662 38936 64484 30428 76757 ...	(MPJ/MOR/Q)
4490	9-1-2013	2000	M01	CW	Wed	473 473 473 30 30 ==msg 473 473 473 30 30 0 0 0	(Q-HOL)
4490	10-1-2013	2000	M01	CW	Thu	197 473 30 = = 15535 66521 91413 07695 90723 ... 42480 38330 # # 473 473 473 30 30 0 0	(MPJ/AB)
4490	15-1-2013	2000	M01	CW	Tue	197 512 512 30 30 = = 34428 83241 21255 17747 63820 ... 85243 53743 = = 512 512 30 30 0 0 0	(MPJ/Q)
4490	17-1-2013	2000	M01	CW	Thu	197 (R) 584 584 30 30 == 00517 00517 82857 82857 87175 87175...29002 29002 69091 69091 8328t 8328t = = 584 584 30 30 000	(Q-HOL)
4490	22-1-2013	2000	M01	CW	Tue	080 30 = = 91714 46661 65662 91994 84978 ... 38931 65904 = = 080 30 0 0 0.	(MPJ)
4490	24-1-2013	2000	M01	CW	Thu	197 015 30 = = 06113 73467 99376 26074 (26074 26074) 13211 ... 30814 94418 18377 24161 45187 = = 015 30 0 0 0. 26074 was sent three times	(MPJ/Q)
4490	29-1-2013	2010	M01	CW	Tue	Missed start ... 97519 97519 71139 71193 = = 798 798 30 30 000	(MPJ)
4490	31-1-2013	2000	M01	CW	Thu	197 217 39 30 30 = = 59525 18439 00070 66065 ... 59 .-...(AS) 97060 52658 56961 52472 = = 217 30 000	(MPJ/Q)
4491	22-1-2013	2005	M01	CW	Tue	ip, msg == 086 086 30 30 0 0 0	(Q-HOL)
4512	10-1-2013	1507	M89	CW	Thu	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	(JPL)
4512	11-1-2013	1417	M89	CW	Fri	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	(JPL)
4512	13-1-2013	2207	M89	CW	Sun	V H2FL (x3) DE DRV8 (x2) (Cont'd)	(JPL)
4512	15-1-2013	1427	M89	CW	Tue	V H2FL (x3) DE DRV8 (x2) (Cont'd)	(JPL)
4512	15-1-2013	1649	M89	CW	Tue	V H2FL (x3) DE DRV8 (x2) (Cont'd)	(JPL)
4512	16-1-2013	1632	M89	CW	Wed	V H2FL (x3) DE DRV8 (x2) (Cont'd)	(JPL)
4512	16-1-2013	1757	M89	CW	Wed	V H2FL (x3) DE DRV8 (x2) (Cont'd)	(JPL)
4512	21-1-2013	1125	M89	CW	Mon	V H2FL (x3) DE DRV8 (x2) (Cont'd)	(JPL)
4512	22-1-2013	1129	M89	CW	Tue	V H2FL (x3) DE DRV8 (x2) (Cont'd)	(JPL)
4512	24-1-2013	2014	M89	CW	Thu	V H2FL (x3) DE DRV8 (x2) (Cont'd)	(JPL)
4512	25-1-2013	1559	M89	CW	Fri	V H2FL (x3) DE DRV8 (x2) (Cont'd)	(JPL)
4512	25-1-2013	1918	M89	CW	Fri	V H2FL (x3) DE DRV8 (x2) (Cont'd)	(JPL)
4512	27-1-2013	1735	M89	CW	Sun	V H2FL (x3) DE DRV8 (x2) (Cont'd)	(JPL)
4512	29-1-2013	1128	M89	CW	Tue	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	(JPL)
4512	30-1-2013	1642	M89	CW	Wed	V H2FL (x3) DE DRV8 (x2) (Cont'd)	(JPL)
4512	30-1-2013	2011	M89	CW	Wed	V H2FL (x3) DE DRV8 (x2) (Cont'd)	(JPL)
4512	31-1-2013	1101	M89	CW	Thu	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	(JPL)
4512	31-1-2013	1240	M89	CW	Thu	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	(JPL)
4519	10-1-2013	1830	G06	AM	Thu	271 171 15 62819 47284 20471 47240 28193 46194 26501 37297 46208 17302 38103 381 7122 47822 19483 63719 18333 171 15 00000	(Avare)
4536	4-1-2013	2000	E11	USB	Fri	576/00 followed by a Windows XP sound	(Avare/Q)
4536	11-1-2013	2000	E11	USB	Fri	576/00	(HFD)
4536	18-1-2013	2000	E11	USB	Fri	YL, EE, 473/32	(Q-HOL)
4536	25-1-2013	2000	E11	USB	Fri	567/00	(Q-HOL)
4538	3-1-2013	2010	M42	FSK 200/500	Thu	Russian Intel	(HFD)
4538	17-1-2013	2016	M42	FSK 200/500	Thu	Russian Intel.	(BCI)
4557.7	10-1-2013	2134	MX	CW	Thu	Beacon "D"	(AB)
4557.7	11-1-2013	2144	MX	CW	Fri	Beacon "D" Odessa/Sevastopol	(MPJ)
4557.7	12-1-2013	2112	MX	CW	Sat	Beacon "D" Odessa/Sevastopol	(MPJ)
4557.7	16-1-2013	2022	MX	CW	Wed	Russian Navy Beacon "D" Odessa/Sevastapol	(LG2)
4557.7	17-1-2013	2155	MX	CW	Thu	Russian Navy. Beacon "D"	(TR2)
4557.7	20-1-2013	2024	MX	CW	Sun	Beacon "D" Odessa/Sevastopol	(MPJ)
4557.7	21-1-2013	2008	MX	CW	Mon	Beacon "D"	(AB)
4557.7	27-1-2013	2259	MX	CW	Sun	"D" Odessa/Sevastopol	(MPJ)
4557.7	31-1-2013	2115	MX	CW	Thu	Beacon "D"	(AB)
4557.8	11-1-2013	2144	MX	CW	Fri	Beacon "P" Kaliningrad	(MPJ)
4557.8	11-1-2013	2202	MX	CW	Fri	Beacon "P"	(AB)
4557.8	31-1-2013	2115	MX	CW	Thu	Beacon "P"	(AB)
4557.9	10-1-2013	2134	MX	CW	Thu	Beacon "S"	(AB)
4557.9	11-1-2013	2144	MX	CW	Fri	Beacon "S" Severomorsk	(MPJ)
4557.9	11-1-2013	2202	MX	CW	Fri	Beacon "S"	(AB)
4557.9	12-1-2013	2113	MX	CW	Sat	Beacon "S" Severomorsk	(MPJ)
4557.9	21-1-2013	2008	MX	CW	Mon	Beacon "S"	(AB)
4557.9	31-1-2013	2115	MX	CW	Thu	Beacon "S"	(AB)

Freq.	date	UTC	enigma	mode	day	remarks	contributor
4558	31-1-2013	2115	MX	CW	Thu	Beacon "C"	(AB)
4564	2-1-2013	2100	E07	USB	Wed	815 815 815 000	(Q-HOL)
4564	23-1-2013	2140	E07a	USB	Wed	815 815 815 1 67976 (R) 949 48 949 48 msg 000 000	(Q/HFD)
4564	23-1-2013	2140	E07a	USB	Wed	815 1 67976 949 48 08470 ... 73508 000 000	(Spec)
4581	11-1-2013	1407	M89	CW	Fri	In tfc: AR K K. QSL 2210 K. K K SK SK R TU	(JPL)
4582	9-1-2013	1105	G06	AM	Wed	Test count 01234 01234 56789 56789 etc	(Avare)
4582	9-1-2013	1200	G06	AM	Wed	546 00000	(Avare)
4590	9-1-2013	1345	M89	CW	Wed	V WITN (x3) DE GNXXG (x2) (Cont'd)	(JPL)
4590	16-1-2013	1630	M89	CW	Wed	V WITN (x3) DE GNXXG (x2) (Cont'd)	(JPL)
4590	16-1-2013	1641	M89	CW	Wed	V WITN (x3) DE GNXXG (x2) (Cont'd)	(JPL)
4590	18-1-2013	1519	M89	CW	Fri	V WITN (x3) DE GNXXG (x2) (Cont'd)	(JPL)
4590	22-1-2013	1131	M89	CW	Tue	V WITN (x3) DE GNXXG (x2) (Cont'd)	(JPL)
4590	22-1-2013	1659	M89	CW	Tue	V WITN (x3) DE GNXXG (x2) (Cont'd)	(JPL)
4590	25-1-2013	1557	M89	CW	Fri	V WITN (x3) DE GNXXG (x2) (Cont'd)	(JPL)
4590	30-1-2013	1514	M89	CW	Wed	V WITN (x3) DE GNXXG (x2) (Cont'd) //7607	(JPL)
4590	30-1-2013	1625	M89	CW	Wed	V WITN (x3) DE GNXXG (x2) (Cont'd) //7607	(JPL)
4590	30-1-2013	1640	M89	CW	Wed	V WITN (x3) DE GNXXG (x2) (Cont'd) //7607	(JPL)
4590	30-1-2013	2009	M89	CW	Wed	V WITN (x3) DE GNXXG (x2) (Cont'd) //7607	(JPL)
4590	31-1-2013	1238	M89	CW	Thu	V WITN (x3) DE GNXXG (x2) (Cont'd) //7607	(JPL)
4595	15-1-2013	1619	M22	CW	Tue	ip VVV DE 4XZ 4XZ	(LG2)
4595	17-1-2013	1851	M22	CW	Thu	4XZ: Navy Haifa "VVV DE 4XZ 4XZ")	(PPA)
4595	23-1-2013	2228	M22	CW	Wed	4XZ HAIFA, ISRAEL "...= = vvv de 4xz 4xz = =..."	(Q-HOL)
4595	25-1-2013	2006	M22	CW	Fri	4XZ HAIFA, ISRAEL "...= = vvv de 4xz 4xz = =..."	(Q-HOL)
4625	2-1-2013	1334	S28	USB	Wed	MDZhB 54 657 NIZKIJ 10 68 02 87	(JM5)
4625	2-1-2013	1338	S28	USB	Wed	MDZhB 13 470 ZIZIFUS 37 24 12 58 LIZIS 34 56 07 09	(JM5)
4625	3-1-2013	1145	S28	USB	Thu	MDZhB 05 200 KIZAR 03 97 33 21	(AB/Avare)
4625	3-1-2013	1146	S28	USB	Thu	MDZhB 73 239 SIZAI' 65 85 40 03	(AB/Avare)
4625	3-1-2013	1148	S28	USB	Thu	MDZhB 44 285 SIDNOKARB 62 60 25 45	(AB/Avare)
4625	3-1-2013	1217	S28	USB	Thu	MDZhB 63 880 SIDNOFEN 74 30 25 32	(AB/Avare)
4625	4-1-2013	1501	S28	USB	Fri	MDZhB 37 461 VIDAM 51 61 21 20	(AB/Avare)
4625	9-1-2013	2140	S28	USB	Wed	The Buzzer	(TR2)
4625	10-1-2013	2140	S28	USB	Thu	Buzzer marker	(AB)
4625	14-1-2013	1246	S28	USB	Mon	MDZhB 83 560 PIANOLO 60 31 45 39	(AB-EST)
4625	14-1-2013	1255	S28	USB	Mon	MDZhB 79 370 DA sboj sboj sboj MDZhB 79 370 DIAKARB 46 77 50 24	(AB-EST)
4625	14-1-2013	1256	S28	USB	Mon	MDZhB 92 527 DIALOMA 58 54 76 24	(AB-EST)
4625	14-1-2013	1327	S28	USB	Mon	MDZhB 67 692 VIADUK 21 74 98 70	(AB-EST)
4625	14-1-2013	1334	S28	USB	Mon	MDZhB 78 148 VZYaTOK 23 55 20 03	(AB-EST)
4625	16-1-2013	1327	S28	USB	Wed	MDZhB 69 240 VZRYShNIK 30 16 54 22	(AB-EST)
4625	18-1-2013	2006	S28	USB	Wed	Buzzer Marker with Unid Tone	(Daunt)
4625	19-1-2013	1541	S28	USB	Thu	Buzzer Marker	(Daunt)
4625	21-1-2013	1428	S28	USB	Mon	MDZhB 92 970 OZONID 61 41 79 74	(AB-EST)
4625	23-1-2013	0519	S28	USB	Wed	MDZhB 49 25 VERKhOVShChIK	(AB-EST)
4625	23-1-2013	1236	S28	USB	Wed	MDZhB 51 531 IZOZOMA 28 15 38 28	(AB-EST)
4625	23-1-2013	1238	S28	USB	Wed	MDZhB 34 654 VZODRANIE 58 28 84 99	(AB-EST)
4625	23-1-2013	1240	S28	USB	Wed	MDZhB 67 965 IZOGALINA 45 74 18 67	(AB-EST)
4625	24-1-2013	1409	S28	USB	Thu	MDZhB 26 47 GERUNOK	(AB/Avare)
4625	25-1-2013	0247	S28	USB	Fri	MDZhB TERKA 0254	(AB-EST)
4625	25-1-2013	0256	S28	USB	Fri	MDZhB OBJAVLENA KOMANDA 135 = open text in Russian: command 135 is announced.	(AB/Avare)
4625	25-1-2013	1407	S28	USB	Fri	MDZhB 71 79 VIRTNYJ	(AB/Avare)
4625	26-1-2013	1240	S28	USB	Sat	MDZhB 72 06 ShshERSTINKA	(Avare)
4625	28-1-2013	1323	S28	USB	Mon	MDZhB 66 988 IZOBATA 78 87 78 40	(AB-EST)
4625	28-1-2013	1326	S28	USB	Mon	MDZhB 02 144 VZMETNOST' 43 78 09 41	(AB-EST)
4625	28-1-2013	1328	S28	USB	Mon	MDZhB 89 228 UZKIJ 01 84 62 02	(AB-EST)
4625	28-1-2013	1347	S28	USB	Mon	MDZhB 13 658 VZDERZhka 07 53 90 30	(AB-EST)
4625	30-1-2013	2237	S28	ISB	Wed	Buzzer Marker with "flump" sort of noise at the end of each buzz	(Daunt)
4625	31-1-2013	1007	S28	USB	Thu	MDZhB 29 973 IZGOLUBA 64 61 81 01 VZVOZ 09 09 36 91	(AB/Avare)
4625	31-1-2013	1011	S28	USB	Thu	MDZhB 49 905 IZAchYeN 75 85 56 07	(AB/Avare)
4625	31-1-2013	1019	S28	USB	Thu	MDZhB 43 905 IZAchYeN 75 85 56 07	(AB/Avare)
4625	31-1-2013	1024	S28	USB	Thu	MDZhB 19 980 AZARINA 24 45 94 38 YeZhYeMUHA 83 50 10 85 DZhY-eMPER 72 28 46 85 DZhAVYeT 45 21 00 65	(AB/Avare)
4625	31-1-2013	1044	S28	USB	Thu	MDZhB 25 924 VEMNIJ 65 06 50 58	(AB/Avare)

Freq.	date	UTC	enigma	mode	day	remarks	contributor
4625	31-1-2013	1112	S28	USB	Thu	MDZhB 81 598 NEChUTKOST' 80 22 73 22 VEChEYa60 42 84 54	(AB/Avare)
4625	31-1-2013	1314	S28	USB	Thu	MDZhB 65 681 PEHOTINETs 06 05 96 83	(AB/Avare)
4625	31-1-2013	1950	S28	USB	Thu	Buzzer 4625, 4667, 4710 kHz	(AB)
4636.97	8-1-2013	1823	M14	CW	Tue	ip, "186 (R) 173 173 15 15 == msg == 173 173 15 15 0 0 0 0	(Q-HOL)
4647	14-1-2013	0728	M32	CW	Mon	XXX XXX REA4 REA4 44728 PODIUM 4418 3826 BOLTKA 4443 7445 K	(Avare)
4647	14-1-2013	0731	M32	CW	Mon	XXX XXX REA4 REA4 69940 ASKLETOK 6392 5155 K	(Avare)
4647	14-1-2013	0738	M32	CW	Mon	XXX XXX JUE4 JUE4 46994 OVUKOLKA 4429 9032 K	(Avare)
4647	14-1-2013	0741	M32	CW	Mon	XXX XXX REA4 REA4 71689 DRAOWYJ 7105 4267 K	(Avare)
4647	14-1-2013	0754	M32	CW	Mon	XXX XXX MJUR MJUR 24401 OCEPENENIE 8868 2092 K	(Avare)
4647	14-1-2013	0809	M32	CW	Mon	XXX XXX REA4 REA4 62389 MOKOWYJ 8741 5410 K	(Avare)
4647	14-1-2013	0813	M32	CW	Mon	XXX XXX REA4 REA4 36678 ANGALAMIN 7354 7843 K	(Avare)
4647	14-1-2013	0817	M32	CW	Mon	XXX XXX REA4 REA4 23896 ASMANIT 2879 1128 K	(Avare)
4647	14-1-2013	0842	M32	CW	Mon	XXX XXX REA4 REA4 18363 36960 00001 01538 0000 = REA4 K	(Avare)
4647	14-1-2013	0846	M32	CW	Mon	XXX XXX REA4 REA4 58400 ULOWNYJ 0850 9585 K	(Avare)
4667	31-1-2013	1950	S28	USB	Thu	Buzzer 4625, 4667, 4710 kHz	(AB)
4710	31-1-2013	1950	S28	USB	Thu	Buzzer 4625, 4667, 4710 kHz	(AB)
4760	4-1-2013	2130	E06	USB	Fri	472 177 15 72635 19482 37295 17493 27489 36290 17362 37462 54836 18336 74925 18364 92763 19374 19374 177 15 00000	(AB/Q)
4760	18-1-2013	2130	E06	USB	Fri	472 177 15 72635 ... 19374 177 15 00000	(Spec/Q)
4761	9-1-2013	1925	M14	CW	Wed	ip End of msg "... 48491 28491 2T482 2T482 NA= 382 382"	(SP1)
4769	30-1-2013	1915	M42	CW/Baudot 50/500	Wed	Russian Gov/Intel. i.p. ... 97 1915 K. QTC NW (into printer) In progress. 5FGs. ... 46230 32053 35393 34256 3.351 97473 32149 42909 31389 38661 32434 35318 35356 30516 30975 49373 38107 46012 31336 31317 49186 37187 31702 35313 34686 37393 37814 31414 42#57 35875 32374 36582 31386 32053 39420 32832 35619 35050 31 0504 40817 94244 39739 37438 =200 CFM CFM NIL NIL SK SK GB.	(MPJ)
4784	5-1-2013	2030	S06	USB	Sat	857 00000	(Spec)
4784	19-1-2013	2033	S06	AM	Sat	157 157 157 00000	(Q-HOL)
4786	11-1-2013	1447	M89	CW	Fri	In tfc: TU A2.1/C.D3II. = 161/.2D3 AR. (see	(JPL)
4786	11-1-2013	1810	M89	CW	Fri	In tfc: DU63 N356 ... (Cont'd). See N&O 184	(JPL)
4792	11-1-2013	1930	G06	USB	Fri	436 827 15 72193 ... 16382 827 15 00000	(Spec)
4792	25-1-2013	1930	G06	USB	Fri	436 827 15 72193 ... 16382 827 15 00000	(Spec)
4820	18-1-2013	2009	Jammer	AM	Wed	Chinese Firedrake Jammer	(Daunt)
4828	1-1-2013	1107	M03	CW	Tue	VVV followed at 1115 UTC with 272/00 = = 000	(Q-HOL)
4828	6-1-2013	1320	M03	CW	Sun	437/30	(MPJ)
4828	27-1-2013	1321	M03	CW	Sun	ip "... = = 000"	(Q-HOL)
4836	3-1-2013	2030	E06	USB	Thu	321 836 15 26857 10285 18362 91037 17263 98716 18375 29472 19372 28374 19200 37284 57263 19877 22202 836 15 00000	(Avare/Q/Spec)
4836	17-1-2013	2030	E06	USB	Thu	321 836 15 26857 ... 22202 836 15 00000	(Spec)
4860	15-1-2013	1420	M89	CW	Tue	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	(JPL)
4860	18-1-2013	1520	M89	CW	Fri	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	(JPL)
4860	20-1-2013	1120	M89	CW	Sun	VVV (x3) Q2M DE NYZ (x2) QSA ? K (/6840	(JPL)
4860	21-1-2013	1119	M89	CW	Mon	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	(JPL)
4860	22-1-2013	1119	M89	CW	Tue	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	(JPL)
4860	23-1-2013	1620	M89	CW	Wed	VVV (x3) Q2M DE NYZ (x2) QSA ? K	(JPL)
4860	30-1-2013	2020	M89	CW	Wed	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	(JPL)
4885	30-1-2013	1933	M32a	CW	Wed	RCIV: Russian Naval Vessel i.p. "...ZZD ? ii ZZD ii RCV de RCIV ZZU ZZT 3852" (wants simplex QSO on 3852 kHz)	(MPJ)
4893	20-1-2013	1840	E07	AM	Sun	788 1 732 80 86777 05567 10670 83427 70803 ... 76620 42650 25166 28155 000 000	(AB/Q-HOL)
4909	1-1-2013	2000	E11c	USB	Tue	757/0000/00	(Q-HOL)
4909	8-1-2013	2000	E11c	USB	Tue	757/0010/00	(Spec/Q)
4909	15-1-2013	2000	E11c	USB	Tue	757/0000/00	(Spec/Q)
4909	22-1-2013	2000	E11c	USB	Tue	757/0200/00	(Q-HOL)
4951.5	3-1-2013	1936	M21	CW	Thu	Russian Air Defence =992340??0?????	(MPJ)
4951.5	5-1-2013	1816	M21	CW	Sat	Russian Air Defence =992318??T?????	(PPA)
5025	4-1-2013	1343	MX	CW	Fri	channel marker "L"	(Avare)
5050.5	12-1-2013	2007	M32	CW	Sat	Russian mil. "VVV VVV ZJ5V DE NEI8"	(PPA)
5076	12-1-2013	1552	---	CW	Sat	Unid station called SROU 5LG msg	(AtB)
5077	12-1-2013	1914	M32	CW	Sat	Russian mil. "XO7I QTC 666 52 12 2100 666 = 719 = 11111"	(PPA)
5082	3-1-2013	1730	E11	USB	Thu	416/00	(Spec)
5082	10-1-2013	1730	E11	USB	Thu	416/00	(Spec/Saber)
5082	14-1-2013	0450	E11	USB	Mon	416/00	(Spec)

Freq.	date	UTC	enigma	mode	day	remarks	contributor
5082	17-1-2013	1730	E11	USB	Thu	416/00	(Spec)
5092	26-1-2013	2323	M32a	CW	Sat	RBEG: Russian Navy Vessel ip 5LGs	(LG2)
5139.8	12-1-2013	2030	M32	CW	Sat	Russian Mil. 5 grp message in progress	(TR2)
5146	3-1-2013	0530	E07a	USB	Thu	188 188 188 000	(Spec)
5146	10-1-2013	0530	E07a	USB	Thu	188 188 188 000	(Spec)
5146	17-1-2013	0530	E07a	USB	Thu	188 188 188 000	(Spec)
5146	24-1-2013	0530	E07a	USB	Thu	188 1 67976 949 48 08470 ... 73508 000 000	(Spec)
5151.9	12-1-2013	2030	M32	CW	Sat	Russian Mil. 5 grp message in progress	(TR2)
5153.7	10-1-2013	2134	MX	CW	Thu	Beacon "D"	(AB)
5153.7	11-1-2013	1718	MX	CW	Fri	Beacon "D"	(AB)
5153.7	19-1-2013	1625	MX	CW	Sat	Beacon "D"	(AB)
5153.7	21-1-2013	2008	MX	CW	Mon	Beacon "D"	(AB)
5153.8	19-1-2013	1625	MX	CW	Sat	Beacon "P"	(AB)
5153.9	9-1-2013	2040	MX	CW	Wed	Russian Navy Marker "S" - Arkhangelsk	(TR2)
5153.9	10-1-2013	2134	MX	CW	Thu	Beacon "S"	(AB)
5153.9	11-1-2013	1718	MX	CW	Fri	Beacon "S"	(AB)
5153.9	21-1-2013	2008	MX	CW	Mon	Beacon "S"	(AB)
5154	11-1-2013	2202	MX	CW	Fri	Beacon "C"	(AB)
5154	21-1-2013	2008	MX	CW	Mon	Beacon "C"	(AB)
5154.2	11-1-2013	0959	MX	CW	Fri	Beacon "F"	(AB-Sib)
5156.8	4-1-2013	0720	MX	CW	Fri	Beacon "L" St Petersburg	(ML4)
5156.8	10-1-2013	1434	MX	CW	Thu	Beacon "L"	(JPL-SE)
5156.8	12-1-2013	1439	MX	CW	Sat	Beacon "L" St. Petersburg	(AB)
5156.8	12-1-2013	2030	MX	CW	Sat	Russian Navy marker "L" St. Petersburg	(TR2)
5156.8	29-1-2013	1154	MX	CW	Tue	Beacon "L"	(AB)
5157	14-1-2013	0550	M12	CW	Mon	417 417 417 000	(FN/HFD)
5157	21-1-2013	0550	M12	CW	Mon	417 000	(FN)
5157	29-1-2013	1654	MX	CW	Tue	Beacon "L" //6957	(JPL)
5164	2-1-2013	2120	E07	USB	Wed	815 815 815 000	(Q/Spec)
5164	9-1-2013	2120	E07a	USB	Wed	815 815 815 000	(Spec)
5164	16-1-2013	2120	E07a	USB	Wed	815 815 815 000	(Spec)
5164	23-1-2013	2120	E07a	USB	Wed	815 815 815 1 67976 (R) 949 48 949 48 msg 000 000	(Q/HFD)
5164	23-1-2013	2120	E07a	USB	Wed	815 1 67976 949 48 08470 ... 73508 000 000	(Spec)
5166.8	12-1-2013	2115	MX	CW	Sat	Beacon "L" Skt Peterburg	(MPJ)
5182	7-1-2013	2040	E07	AM	Mon	981 981 981 1(R) 525 58 525 58 msg 000 000	(Q/Spec)
5182	9-1-2013	2040	E07	AM	Wed	981 981 981 1 (R) 525 58 525 58 msg 000 000	(Q-HOL)
5182	21-1-2013	2040	E07	AM	Mon	981 981 981 1 (R) 466 87 466 87 msg 000 000	(Q-HOL)
5182	23-1-2013	2021	E07	AM	Wed	ip, OM, EE, almost incomprehensible	(Q-HOL)
5207	24-1-2013	0107	M89	CW	Thu	In tfc: MSG NR 076 NR 076 NR 076 CK 99 1801	(JPL)
5224	12-1-2013	2140	M32a	CW	Sat	RCV: Sevastopol Naval Radio "RBEG de RCV QSA1 K. RBEG de RCV QRR3 QSX 5454 K."	(MPJ)
5224	12-1-2013	2142	M32a	CW	Sat	RCV: Sevastopol Naval Radio "RHL80 de RCV QSA? K." Then calls RFH70 (destroyer Smetlivy) for QSA. RFH70 de RCV QYT4 QSA? K. RFH70 de RCV QYT4 QLS1 K. RCV R K."	(MPJ)
5224	21-1-2013	1943	M32a	CW	Mon	Navy Sevastopol "RBES DE RCV QSA? QTC"	(PPA)
5230	8-1-2013	0129	M89	CW	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	(JPL)
5230	9-1-2013	0022	M89	CW	Wed	In tfc: 4 5319 QRW .165327 QSL ? HR NR	(JPL)
5230	10-1-2013	1408	M89	CW	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	(JPL)
5230	10-1-2013	1428	M89	CW	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	(JPL)
5230	11-1-2013	0028	M89	CW	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	(JPL)
5230	13-1-2013	2212	M89	CW	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	(JPL)
5230	13-1-2013	2351	M89	CW	Sun	V DKG6 de 3A7D	(MPJ)
5230	17-1-2013	1614	M89	CW	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	(JPL)
5230	17-1-2013	2131	M89	CW	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	(JPL)
5230	17-1-2013	2256	M89	CW	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	(JPL)
5230	21-1-2013	0035	M89	CW	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	(JPL)
5230	22-1-2013	1657	M89	CW	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	(JPL)
5230	22-1-2013	1941	M89	CW	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	(JPL)
5230	23-1-2013	2009	M89	CW	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	(JPL)
5230	24-1-2013	0051	M89	CW	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	(JPL)
5230	25-1-2013	1306	M89	CW	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	(JPL)
5230	25-1-2013	1319	M89	CW	Fri	V DKG6 (x3) DE 3A7D 9/5585/EEEE RMKS 5329/5	(JPL)

Freq.	date	UTC	enigma	mode	day	remarks	contributor
5230	25-1-2013	1928	M89	CW	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	(JPL)
5230	28-1-2013	1230	M89	CW	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	(JPL)
5230	28-1-2013	1308	M89	CW	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	(JPL)
5230	28-1-2013	1618	M89	CW	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	(JPL)
5230	28-1-2013	2012	M89	CW	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	(JPL)
5230	30-1-2013	2014	M89	CW	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	(JPL)
5250	1-1-2013	0700	S06s	USB	Tue	374 289 5 89645 67312 80978 88021 34265 289 5 00000	(AB/Spec)
5250	8-1-2013	0700	S06s	USB	Tue	374 289 5 89645 67312 80978 88021 34365 289 5 00000	(Spec)
5250	15-1-2013	0700	S06s	USB	Tue	374 509 6 55445 50128 99477 83574 48874 94031 509 6 00000	(Spec)
5250	22-1-2013	0700	S06s	USB	Tue	374 509 6 55445 50128 99477 83574 48874 94031 509 6 00000	(Spec)
5284	3-1-2013	0730	M12	CW	Thu	277 000	(FN)
5284	3-1-2013	0730	M12	CW	Thu	277 0	(HFD)
5284	10-1-2013	0730	M12	CW	Thu	277 000	(FN)
5284	17-1-2013	0730	M12	CW	Thu	277 000	(FN)
5284	24-1-2013	0730	M12	CW	Thu	277 000	(FN)
5286	12-1-2013	0750	M32	CW	Sat	Russian Mil. 5 grp message in progress. 0800 UTC: "V3S6 DE LONS" 5 grp messages sent	(TR2)
5286	25-1-2013	0642	M32	CW	Fri	Russian Mil. QJZT clg AQJZ	(BCI)
5312	4-1-2013	2048	M32	CW	Fri	CIS Mil. c/s DZOC	(BCI)
5320	1-1-2013	1800	M01	CW	Tue	197 (R) msg 0 0 0	(Q-HOL)
5320	3-1-2013	1800	M01	CW	Thu	197 338 55 69754 56998 ... 49181 03074 481 481 30 30 0 0 0.	(MPJ)
5320	8-1-2013	2210	M42	FSK 200/1000	Tue	Russian Intel. 0-Msg	
5320	9-1-2013	1800	M01	CW	Wed	197 (R) 319 319 3t 3t // msg // 319 319 3t 3t 0 0 0	(Q-HOL)
5320	10-1-2013	1800	M01	CW	Thu	197 526 526 = 30 30 = = 22321 57923 95404 ...	(MPJ)
5320	15-1-2013	1804	M01	CW	Tue	197 (R) 782 782 30 30 == msg == 782 782 30 30 000	(Q-HOL)
5320	17-1-2013	1800	M01	CW	Thu	197 319 30 = = 90000 78466 98923 41273 25162 ... (dropped before end)	(MPJ)
5320	25-1-2013	0528	XM	USB	Fri	"whales" in progress	(Avare)
5320	29-1-2013	1800	M01	CW	Tue	197 257 257 30 30 = = 68055 52140 03109 96255 52940 ... 73466 47790 11779 01749 35035 = = 257 257 2 30 30 000	(MPJ)
5320	31-1-2013	1800	M01	CW	Thu	197 328 30 = = 06449 35743 48580 55977 47408 ... 35447 79324 82749 66711 63472 = = 328 30 000 //5321 kHz	(MPJ/Q)
5322	25-1-2013	0648	XM	USB	Fri	"whales" in progress	(AB)
5358	5-1-2013	1535	M03	CW	Sat	798/00 = = 0 0 0	(MPJ)
5358	19-1-2013	1535	M03	CW	Sat	798/00	(HFD/Daunt)
5358	26-1-2013	1535	M03	CW	Sat	i.p. "...= 0 0 0"	(Q-HOL)
5358	29-1-2013	1535	M03	CW	Tue	798/00	(MPJ)
5361	2-1-2013	2200	M12	CW	Wed	340 340 340 000 *	(FN/HFD)
5361	9-1-2013	2200	M12	CW	Wed	340 340 340 000 (R)	(Q-HOL)
5361	23-1-2013	2200	M12	CW	Wed	340 340 340 000	(Q-HOL/FN)
5363	7-1-2013	0800	G06	USB	Mon	215 00000	(Spec)
5383	15-1-2013	1710	M42	FSK 200/1000	Tue	Russian Intel. 0-msg	(FMB)
5391	3-1-2013	1940	XPA	MFSK	Thu	873 873 873 000 (R) 08244 00001 00000 10140	(Q-HOL)
5391	8-1-2013	1940	XPA	MFSK	Tue	873 873 873 1 873 873 873 1 873 873 873 1 (R) msg	(Q-HOL)
5391	15-1-2013	1940	XPA	MFSK	Tue	Polytones numbers station	(Q-HOL)
5391	22-1-2013	1940	XPA	MFSK	Tue	873 873 873 000 (R) 06354 00001 00000 10140	(Q-HOL/HFD)
5391	23-1-2013	1940	XPA	MFSK	Wed	873 873 873 000 873 873 873 000 873 873	(SP1)
5391	31-1-2013	1941	XPA	MFSK	Thu	Polytones numbers station	(Q-HOL)
5394	21-1-2013	2013	M32	CW	Mon	Russian Mil. WNG6 clg RJWG	(BCI)
5397	16-1-2013	1540	M12	CW	Wed	157 1 974 139 51064	(FN)
5410	10-1-2013	0900	S06s	USB	Thu	624	(HFD)
5436	15-1-2013	1435	M32	CW	Tue	XXX XXX RDL RDL 0453DS AMFIDIÄ 01 1350250270 822K	(LG2)
5436	16-1-2013	0713	M51	CW	Wed	ip	(FMB)
5448	22-1-2013	0630	S30	CW	Tue	Pip marker	(AB)
5448	25-1-2013	0500	S30	USB	Fri	8S1SHch 61 655 EVTROFON 64 62 60 39 LACKRINICHNY 23 13 57 28 Priyom	(Avare)
5449	3-1-2013	2130	E07	AM	Thu	744 744 744 1 (R) 427 62 427 62 msg 000 000	(Q-HOL)
5449	3-1-2013	2130	E07	AM	Thu	744 1 62 88215 ... 59317 000 000	(Spec)
5449	10-1-2013	2130	E07	AM	Thu	744 744 744 000	(AB)
5449	24-1-2013	2130	E07	AM	Thu	744 744 744 000	(Q-HOL)
5452	8-1-2013	1803	M51	CW	Tue	ip.	
5452	15-1-2013	1607	M51	CW	Tue	ip	(FMB)
5454	12-1-2013	2142	M32a	CW	Sat	RCEG: Russian Warship "RCV de RCEG ZZD ZZK ..." Sets up scrambled	(MPJ)

Freq.	date	UTC	enigma	mode	day	remarks	contributor
						Morse sked.	
5460	4-1-2013	0600	S06s	USB	Fri	934 267 5 16070 48834 99477 83574 53718 267 5 00000	(Spec)
5460	11-1-2013	0600	S06s	USB	Fri	934 267 5 16070 48834 99477 83574 53718 267 5 00000	(Spec)
5473	22-1-2013	0628	S32	USB	Tue	Squeaky Wheel marker	(AB)
5473	25-1-2013	0512	S32	USB	Fri	Al'fa45 52 988 ETRAN 59 97 74 40 VISKARDAN 37 18 55 76 Priyom	(Avare)
5473	25-1-2013	0512	S32	USB	Fri	Squeaky Wheel. Harmonics on: 5439, 5445, 5456, 5473, 5480, 5491, 5508	(avare)
5473	28-1-2013	0842	S32	USB	Mon	Dlya Secret76 Dlya Secret76..12345678910 12345678910 12345678910 12345678910 Dlya Secret76 Dlya Secret76	(Argonn)
5479	12-1-2013	1600	M32	CW	Sat	Russian Mil. SF57 clg YFY7	(AtB)
5479	27-1-2013	1650	M32	CW	Sun	Russian Mil. VAXZ clg TZWN	(AtB)
5479	27-1-2013	1651	M32	CW	Sun	Russian Mil. ZEW9 clg TZWN	(AtB)
5479	27-1-2013	1652	M32	CW	Sun	Russian Mil. PMB7 clg TZWN	(AtB)
5500	8-1-2013	1258	M89	CW	Tue	V 7NPE (x3) DE QV5B (x2) (Cont'd)	(JPL)
5500	8-1-2013	1441	M89	CW	Tue	V 7NPE (x3) DE QV5B (x2) (Cont'd)	(JPL)
5500	11-1-2013	1549	M89	CW	Fri	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	(JPL)
5500	14-1-2013	1302	M89	CW	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd)	(JPL)
5500	21-1-2013	1115	M89	CW	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	(JPL)
5500	22-1-2013	1115	M89	CW	Tue	In tfc: VV TC9 UGT COMM BT BT BT BT 6369/10	(JPL)
5500	22-1-2013	1701	M89	CW	Tue	(In tfc) V 7NPE (x3) DE QV5B (x2) (Cont'd)	(JPL)
5500	22-1-2013	1943	M89	CW	Tue	(In tfc) V 7NPE (x3) DE QV5B (x2) (Cont'd)	(JPL)
5500	23-1-2013	2011	M89	CW	Wed	In tfc V 7NPE (x3) DE QV5B (x2) (Cont'd)	(JPL)
5500	25-1-2013	1555	M89	CW	Fri	V 7NPE (x3) DE QV5B (x2) (Cont'd)	(JPL)
5500	29-1-2013	1615	M89	CW	Tue	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	(JPL)
5500	30-1-2013	1638	M89	CW	Wed	V 7NPE (x3) DE QV5B (x2) (Cont'd)	(JPL)
5500	31-1-2013	1059	M89	CW	Thu	V 7NPE (x3) DE QV5B (x2) (Cont'd)	(JPL)
5500	31-1-2013	1236	M89	CW	Thu	V 7NPE (x3) DE QV5B (x2) (Cont'd)	(JPL)
5555	11-1-2013	1744	M89	CW	Fri	In tfc: ANAU 76N4 D3T. TDT4 557U ... (Cont'	(JPL)
5561	19-1-2013	0900	M14	CW	Sat	171	(HFD)
5660	29-1-2013	1010	S06s	USB	Tue	893 893 893 00000	(AB)
5666	1-1-2013	1010	S06s	USB	Tue	893 246 5 50767 54160 41416 11443 15700 246 5 00000	(Q-HOL)
5752	9-1-2013	2011	M21	CW	Wed	PVO	(BCI)
5763	14-1-2013	0034	M89	CW	Mon	V WITN (x3) DE GNXG (x2) (Cont'd)	(JPL)
5764	5-1-2013	1216	VC01	LSB		Chinese Robot, barely audible	(AB-HK)
5784	3-1-2013	0750	M12	CW	Thu	277 277 277 000	(FN/HFD)
5784	10-1-2013	0750	M12	CW	Thu	277 277 277 000	(FN)
5784	17-1-2013	0750	M12	CW	Thu	277 277 277 000	(FN)
5784	24-1-2013	0750	M12	CW	Thu	277 277 277 000	(FN)
5788	9-1-2013	1740	M12	CW	Wed	463 1	(HFD)
5788	16-1-2013	1740	M12	CW	Wed	463 1 3309 41 17336	(FN)
5788	23-1-2013	1740	M12	CW	Wed	463 1 8544 56 94882	(FN)
5793	3-1-2013	2000	M42	FSK 200/500	Thu	Russian Intel	(HFD)
5801	8-1-2013	1150	M89	CW	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	(JPL)
5801	13-1-2013	0209	M89	CW	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	(JPL)
5801	17-1-2013	0303	M89	CW	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	(JPL)
5801	21-1-2013	0307	M89	CW	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	(JPL)
5801	21-1-2013	0307	M89	CW	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	(JPL)
5801	22-1-2013	1133	M89	CW	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	(JPL)
5801	24-1-2013	0308	M89	CW	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	(JPL)
5801	28-1-2013	1225	M89	CW	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	(JPL)
5801	29-1-2013	0346	M89	CW	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	(JPL)
5801	29-1-2013	1133	M89	CW	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	(JPL)
5801	29-1-2013	1146	M89	CW	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	(JPL)
5801	29-1-2013	1643	M89	CW	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	(JPL)
5801	30-1-2013	0302	M89	CW	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	(JPL)
5801	31-1-2013	1103	M89	CW	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	(JPL)
5809	5-1-2013	1500	M01	CW	Sat	719 719 30 30 = = 10566 99561 ... 93854 35038 = = 719 719 30 30 0 0 0. //5810	(MPJ)
5826	14-1-2013	0003	M14	CW	Mon	376(R3)(00:03 - 00:05); 175 175 15 15==17392(x2)...2888t(x2)==175 175 15 ttttt	(FMB)
5836	6-1-2013	1820	E07	AM	Sun	788 788 788 000	(Spec)
5836	9-1-2013	1820	E07	CW	Wed	788 0	(HFD)

Freq.	date	UTC	enigma	mode	day	remarks	contributor
5836	20-1-2013	1820	E07	AM	Sun	788 1 732 80 86777 05567 10670 83427 70803 ... 76620 42650 25166 28155 000 000	(AB/Q-HOL)
5838	19-1-2013	0600	M12	CW	Sat	842 000	(FN)
5838	26-1-2013	0600	M12	CW	Sat	842 000	(FN)
5846	3-1-2013	0550	E07a	USB	Thu	188 188 188 000	(Spec)
5846	10-1-2013	0550	E07a	USB	Thu	188 188 188 000	(Spec)
5846	17-1-2013	0550	E07a	USB	Thu	188 188 188 000	(Spec)
5846	24-1-2013	0550	E07a	USB	Thu	188 1 67976 949 48 08470 ... 73508 000 000	(Spec)
5855	23-1-2013	1000	V02a	AM	Wed	61374 ????? ?????	(Dan)
5855	27-1-2013	0503	HM01	AM/RDFT	Sun	YL/SS numbers & RDFT	(N2UHC)
5864	2-1-2013	2100	E07a	USB	Wed	815 815 815 000	(Spec)
5864	9-1-2013	2100	E07a	USB	Wed	815 815 815 000	(Spec/Q)
5864	16-1-2013	2100	E07	USB	Wed	815 815 815 000	(MPJ/Spec)
5864	23-1-2013	2100	E07a	USB	Wed	815 1 67976 949 48 08470 14288 59581 82221 55121 44188 ... 33934 63222 73508 000 000	(MPJ/HFD)
5864	23-1-2013	2100	E07a	USB	Wed	815 815 815 1 67976 (R) 949 48 949 48 msg 000 000	(Q-HOL)
5864	23-1-2013	2100	E07a	USB	Wed	815 1 67976 949 48 08470 ... 73508 000 000	(Spec)
5864	30-1-2013	2100	E07a	USB	Wed	815 1 62421. 326 69. 24887 91749 00775 94382 71776 ... 03775 48656 90643 26469 75223 000 000	(MPJ)
5882	2-1-2013	2020	E07	AM	Wed	981 981 981 000	(Q-HOL)
5882	7-1-2013	2020	E07	AM	Mon	981 1 525 58 38286 ... 97406 000 000	(Spec)
5882	14-1-2013	2020	E07	CW	Mon	981 0	(HFD)
5882	14-1-2013	2020	E07	USB	Mon	981 981 981 000	(Q-HOL)
5882	14-1-2013	2020	E07	AM	Mon	981 981 981 000	(Spec)
5882	16-1-2013	2020	E07	AM	Wed	981 981 981 000(R)	(Q-HOL)
5882	21-1-2013	2020	E07	AM	Mon	981 981 981 1 (R) 466 87 466 87 msg 000 000	(Q-HOL)
5882	28-1-2013	2000	E07	AM	Mon	981 981 981 000 (R)	(Q-HOL)
6085	4-1-2013	0600	S06s	USB	Fri	934 267 5 16070 48834 99477 83574 53718 267 5 00000	(AB)
6085	4-1-2013	0610	S06s	USB	Fri	934 267 5 16070 48834 99477 83574 53718 267 5 00000	(Spec)
6085	11-1-2013	0600	S06s	USB	Fri	934 267 5 16070 48834 99477 83574 53718 267 5 00000	(AB)
6085	11-1-2013	0610	S06s	USB	Fri	934 267 5 16070 48834 99477 83574 53718 267 5 00000	(Spec)
6140	2-1-2013	0730	E25	AM	Wed	Arabic Music (Muslim prayer style), Arabic music (modern)	(AIK)
6140	8-1-2013	0930	E25	AM	Tue	YL. 333 333 333 MESSAGE 1090 0160 1182 2108 6225 5932 2993 1332 0160 REBEAT 1090 0160 1182 2108 6225 5932 2993 1332 0160	(AIK)
6140	8-1-2013	1115	E25	AM	Tue	YL. 880 880 880 MESSAGE 1110 2011 5791 3548 8456 9876 5444 7697 2528 5594 1110 REBEAT 1110 2011 5791 3548 8456 9876 5444 7697 2528 5594 1110	(AIK)
6140	9-1-2013	0914	E25	AM	Wed	YL. 950 950 950 MESSAGE 1011 1933 0220 6424 6245 6416 6376 4097 5595 0166 0220 REBEAT 1011 1933 0220 6424 6245 6416 6376 4097 5595 0166 0220	(AIK)
6140	9-1-2013	0929	E25	AM	Wed	YL. 333 333 333 MESSAGE 1090 0160 1182 2108 6225 5932 2293 1332 0160 REBEAT 1090 0160 1182 2108 6225 5932 2293 1332 0160	(AIK)
6140	10-1-2013	1115	E25	AM	Thu	YL. 880 880 880 MESSAGE 0250 3071 1099 7322 7251 1689 2536 8768 5586 8745 3256 1924 3997 2598 3101 8469 0250 REBEAT 0250 3071 1099 7322 7251 1689 2536 8768 5586 8745 3256 1924 3997 2598 3101 8469 0250	(AIK)
6140	11-1-2013	1111	E25	AM	Fri	880 880 880 880 MESSAGE 0250 3071 1099 7322 7251 1689 2536 8768 5586 8745 3256 1924 3797 2598 3101 8496 0250 REBEAT 0250 3071 1099 7322 7251 1689 2536 8768 5586 8745 3256 1924 3797 2598 3101 8469 0250	(AB)
6140	13-1-2013	0959	E25	AM	Sun	Tone intro	(AIK)
6140	14-1-2013	0837	E25	AM	Mon	Tone intro. YL. 185 185 185 MESSAGE 1059 4151 9402 8656 0292 8266 3240 5413 5527 8404 ???? REBEAT 1059 4151 9402 8656 0292 8266 3240 5413 5527 8404 9?4?	(AIK)
6140	15-1-2013	0814	E25	AM	Tue	Tone intro. YL. 185 185 185 MESSAGE 1059 4151 9402 8656 0292 8266 3240 5413 5527 8404 9246 REBEAT 1059 4151 9402 8656 0292 8266 3240 5413 5527 8404 9246	(AIK)
6140	15-1-2013	0929	E25	AM	Tue	Tone intro. YL. 333 333 333 MESSAGE 2090 0211 9378 0454 7861 1036 2541 1033 0211 REBEAT 2090 0211 9378 0454 7861 1036 2541 1033 0211	(AIK)
6140	16-1-2013	0759	E25a	AM	Wed	Tone intro. YL. 019 1 MESSAGE 1002 3470 7746 7486 REBEAT 1002 3470 7746 7486 EOM EOT EOT	(AIK)
6140	16-1-2013	0929	E25	AM	Wed	Tone intro. YL. 333 333 333 MESSAGE 2090 0211 9378 0454 7861 1036 2541 1033 0211 REBEAT 2090 0211 9378 0454 7861 1036 2541 1033 0211 EOM EOT EOT	(AIK)
6140	16-1-2013	0947	E25	AM	Wed	Tone intro. Music "Entra Omri". YL. 350 350 350 MESSAGE 1955 7010	(AIK)

Freq.	date	UTC	enigma	mode	day	remarks	contributor
						1001 0886 3825 3504 4821 9577 1684 7010 REBEAT 1955 7010 1001 0886 3825 3504 4821 9577 1684 7010 EOM EOT EOT	
6140	17-1-2013	0756	E25a	AM	Thu	Tone. YL. 019 1 MESSAGE 1002 3470 7746 7486 REBEAT 1002 3470 7746 7486	(AIK)
6140	17-1-2013	0943	E25a	AM	Thu	Tone. Music "Entra Omri". YL. 355 2 MESSAGE	(AIK)
6140	19-1-2013	0820	E25	AM	Sat	Tone. OM. 804 804 804 MESSAGE 1898 4190 0?23(6 or 8) 2382 2751 0326 8841 5617 REBEAT 1898 4190 0?23(6 or 8) 2382 2751 0326 8841 5617 EOM EOT	(AIK)
6140	19-1-2013	0857	E25	AM	Sat	Tone. YL. 111 111 111 MESSAGE 1913 3290 2041 6388 0406 8751 6163 1042 2148 6742 1380 0799 0532 3290 REBEAT 1913 3290 2041 6388 0406 8751 6163 1042 2148 6742 1380 0799 0532 3290 EOM EOM EOM	(AIK)
6140	22-1-2013	0800	E25	AM	Tue	YL. 017 1 017 1 017 1 MESSAGE REBEAT END OF MESSAGE 017 1 017 1 017 1 MESSAGE REBEAT EOM EOT	(AIK)
6155	4-1-2013	0929	E25	AM	Fri	YL. 133 133 133 MESSAGE 0084 8690 6478 0028 6003 1059 REBEAT 0084 8690 6478 0028 6003 1059	(AIK)
6155	4-1-2013	1113	E25	AM	Fri	YL. 880 880 880 MESSAGE 0250 1031 1555 3786 6555 1637 3046 6664 2828 6680 0502 6557 0250 REBEAT 0250 1031 1555 3786 6555 1637 3046 6664 2828 6680 0502 6557 0250	(AIK)
6220	3-1-2013	2000	M32	CW	Thu	Russian Mil. BSBH de YFY7 K. R K. Nothing further	(MPJ)
6320	1-1-2013	0710	S06s	USB	Tue	374 289 5 89645 67312 80978 88021 34365 289 5 00000	(Spec/Ab)
6320	8-1-2013	0710	S06s	USB	Tue	374 289 5 89645 67312 80978 88021 34365 289 5 00000	(Spec)
6320	15-1-2013	0710	S06s	USB	Tue	374 509 6 55445 50128 99477 83574 48874 94031 509 6 00000	(Spec)
6320	22-1-2013	0710	S06s	USB	Tue	374 509 6 55445 50128 99477 83574 48874 94031 509 6 00000	(Spec)
6379	12-1-2013	2355	M22	CW	Sat	DE 4XZ 4XZ = = AR NW QTC 1 N282 = =	(LG2)
6379	15-1-2013	1800	M22	CW	Tue	Israeli Mil. VVV DE 4XZ = =	(TR2)
6379	23-1-2013	2230	M22	CW	Wed	4XZ HAIFA, ISRAEL "...= = vvv de 4xz 4xz = =..."	(Q-HOL)
6386	11-1-2013	0715	M32	CW	Fri	RGT77 sending 5 grp message	(MPJ)
6417	21-1-2013	1828	XSL	QPSK 1500	Mon	Japan Maritime Self-Defense Force aka Slot machine	(PPA)
6422	31-1-2013	0745	M32	CW	Thu	CIS Mil. 7RJN DE MR6Z QTC 7RJN DE MR6Z QTC. MR6Z 211 49 30 1135 = 028 = AAAA XDDYU CEPJR IOTÖCh QBVWK IOTFU PLXHA KNRGU IXTFB (Continues)	(TR2)
6433	1-1-2013	1755	G11	USB	Tue	260/00	(Q-HOL)
6433	4-1-2013	1325	G11	USB	Fri	299/00	(AB)
6433	5-1-2013	1325	G11	USB	Sat	299/38 47337 26079 ... 47300 75542	(MPJ)
6433	6-1-2013	1755	G11	USB	Sun	270/00	(Spec/Q)
6433	8-1-2013	1755	G11	USB	Tue	270/00	(Spec)
6433	11-1-2013	1325	G11	USB	Fri	299/00	(AB)
6433	11-1-2013	1325	G11	USB	Fri	299/00	(Spec/Saber)
6433	15-1-2013	1755	G11	USB	Tue	270/00	(Spec)
6433	18-1-2013	1325	G11	USB	Fri	293/30 Achtung 40191 ... 52854 Ende	(Spec/Saber)
6433	19-1-2013	1025	S11a	USB	Sat	YL, Slavic language, "... msg KANYETS")	(Q-HOL)
6433	20-1-2013	1755	G11	USB	Sun	273/35 71078 81806 99771 12609 71073 73399 22037	(MP/QJ)
6433	26-1-2013	1325	G11	USB	Sat	299/00	(Q-HOL)
6433	27-1-2013	1755	G11	USB	Sun	272/30 61054 28838 26970 94541 63057 ... 47915 32225 39331 08775	(MPJ)
6433	29-1-2013	1755	G11	USB	Tue	270/00	(MPJ)
6440	29-1-2013	1000	S06s	USB	Tue	893 893 893 00000	(AB)
6507	1-1-2013	1619	M22	CW	Tue	4XZ Haifa 5LGs	(ML4)
6512	31-1-2013	1750	S30	CW	Thu	until 1757 UTC. Also on its usual freq 3756 kHz	(AB)
6607	1-1-2013	0731	M22	CW	Tue	4XZ: Navy Haifa "VVV DE 4XZ 4XZ"	(PPA)
6607	23-1-2013	2226	M22	CW	Wed	4XZ HAIFA, ISRAEL "...= = vvv de 4xz 4xz = =..."	(Q-HOL)
6607	24-1-2013	1936	M22	CW	Thu	4XZ HAIFA, ISRAEL "...= = vvv de 4xz 4xz = =...msg"	(Q-HOL)
6668	18-1-2013	0440	MX	CW	Fri	Beacon "L" St Petersburg	(AnUSA)
6668	20-1-2013	0130	MX	CW	Sun	Beacon "L" St Petersburg	(AnUSA)
6739	19-1-2013	1609	M23?	CW	Thu	776 (R)	(Daunt)
6762	4-1-2013	2110	V02a	AM	Fri	Cuban numbers station	(OSc)
6768	4-1-2013	2030	V02a	AM	Fri	Cuban numbers station	(OSc)
6770	10-1-2013	0910	S06s	USB	Thu	624 905 7=##720	(HFD)
6773	10-1-2013	0353	M89	CW	Thu	V H2FL (x3) DE DRV8 (x2) (Cont'd) //8040	(JPL)
6773	24-1-2013	0045	M89	CW	Thu	V H2FL (x3) DE DRV8 (x2) (Cont'd)	(JPL)
6774	6-1-2013	1800	E07	AM	Sun	788 788 788 000	(Spec)
6774	9-1-2013	1800	E07	CW	Wed	788 0	(HFD)
6774	16-1-2013	1800	E07	USB	Wed	788 788 788 000	(MPJ)
6774	20-1-2013	1800	E07	AM	Sun	788 1 732 80 86777 05567 10670 83427 70803 ... 76620 42650 25166 28155 000 000	(AB/Q)

Freq.	date	UTC	enigma	mode	day	remarks	contributor
6777	3-1-2013	2110	E07	AM	Thu	744 744 744 1 (R) 427 62 427 62 msg 000 000	(Q-HOL)
6777	3-1-2013	2110	E07	AM	Thu	744 1 62 88215 ... 59317 000 000	(Spec)
6777	9-1-2013	2110	E07	AM	Wed	744 744 744 000 (R)	(Q-HOL)
6777	10-1-2013	2110	E07	AM	Thu	744 744 744 000	(AB)
6777	17-1-2013	2110	E07	AM	Thu	744 744 744 000(R)	(Q-HOL)
6777	24-1-2013	2110	E07	AM	Thu	744 744 744 000	(Q-HOL)
6791	3-1-2013	1920	XPA	MFSK	Thu	873 873 873 000 (R) 08244 00001 00000 10140	(Q-HOL)
6791	15-1-2013	1920	XPA	MFSK	Tue	Polytones numbers station	(Q-HOL)
6791	17-1-2013	1921	XPA	MFSK	Thu	Polytones numbers station	(Q-HOL)
6791	22-1-2013	1920	XPA	MFSK	Tue	873 873 873 000 (R) 06354 00001 00000 10140	(HFD/Q-HOL)
6791	24-1-2013	1920	M12	CW	Thu	124 124 124 1 (R) msg 000 000	(Q-HOL)
6792	7-1-2013	1340	M12	CW	Mon	157 1 323 167 11537	(FN)
6792	14-1-2013	1340	M12	CW	Mon	157 1 974 139 51064	(FN/HFD)
6792	22-1-2013	1820	M14	CW	Tue	ip52326 52326 93755 93755 65788 65788 84961 84961 73843 73843 9822t 9822t 19263 19263 = = 67t 67t 134 134 0 0 0 0 0"	(Q-HOL)
6793	8-1-2013	2200	M42	FSK 200/1000	Tue	Russian Intel. 0-Msg	
6795	8-1-2013	2310	M42	FSK 200/1000	Tue	Russian Intel. 0-Msg	
6797	2-1-2013	1520	M12	CW	Wed	157 157 157 000	(FN/HFD)
6797	16-1-2013	1520	M12	CW	Wed	157 1 974 139 51064	(FN)
6797	23-1-2013	1520	M12	CW	Wed	157 157 157 000	(MPJ/FN)
6797	30-1-2013	1520	M12	CW	Wed	148 195 09953 29241 71904 61049 68738 ... 67328 81739 55107 07968 74865 000	(MPJ)
6802	9-1-2013	1720	M12	CW	Wed	463 1	(HFD)
6802	16-1-2013	1720	M12	CW	Wed	463 1 3309 41 17336	(FN)
6802	23-1-2013	1720	M12	CW	Wed	463 1 8544 56 94882	(FN)
6807	14-1-2013	0820	M42	FSK 200/1000	Mon	Russian Intel. 13 Blocks	(FMB)
6822	22-1-2013	0642	M42	Baudot 200/500	Tue	Russian Gov/Intel. 141 blocks; 423 gr.	(FMB)
6825	13-1-2013	0916	M51	CW	Sun	FAV22 in progress	(ML4)
6825	21-1-2013	1242	M51a	CW	Mon	ip	(FMB)
6825	29-1-2013	1239	M51	CW	Tue	FAV22 8ème Régiment de Transmission "AR LECON 02-2/2 VITESSE EN CLAIR =	(LG2)
6830	31-1-2013	1120	M89	CW	Thu	VVV (x3) Q2M DE NYZ (x2) QSA ? K	(JPL)
6832	16-1-2013	0833	M42	CW	Wed	rwu rwu rwu 55297 1t992 55297 1t992 55297 1t992 ar rwu rwu rwu 19931 t929t 19931 t929t 19931 t929t ar rwu rwu rwu rwu 66	(FMB)
6832	25-1-2013	1635	E07	AM	Fri	ip 71398 77884 73033 60007 85573 11346 87828 40194 000 000	(LG2)
6840	8-1-2013	0120	M89	CW	Tue	VVV (x3) Q2M DE NYZ (x2) QSA ? K //10640	(JPL)
6840	9-1-2013	0920	M89	CW	Wed	VVV (x3) Q2M DE NYZ (x2) QSA ? K	(JPL)
6840	11-1-2013	1320	M89	CW	Fri	VVV (x3) Q2M DE NYZ (x2) QSA ? K	(JPL)
6840	12-1-2013	1620	M89	CW	Sat	vvv Q2M Q2M Q2M de NYZ NYZ	(FN)
6840	13-1-2013	0220	M89	CW	Sun	VVV (x3) Q2M DE NYZ (x2) QSA ? K //10640	(JPL)
6840	14-1-2013	0020	M89	CW	Mon	VVV (x3) Q2M DE NYZ (x2) QSA ? K	(JPL)
6840	15-1-2013	1420	M89	CW	Tue	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	(JPL)
6840	16-1-2013	1920	M89	CW	Wed	VVV (x3) Q2M DE NYZ (x2) QSA ? K	(JPL)
6840	17-1-2013	0319	M89	CW	Thu	VVV (x3) Q2M DE NYZ (x2) QSA ? K //10640	(JPL)
6840	18-1-2013	1520	M89	CW	Fri	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	(JPL)
6840	20-1-2013	1120	M89	CW	Sun	VVV (x3) Q2M DE NYZ (x2) QSA ? K (/4860	(JPL)
6840	21-1-2013	1119	M89	CW	Mon	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	(JPL)
6840	22-1-2013	1119	M89	CW	Tue	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	(JPL)
6840	24-1-2013	0320	M89	CW	Thu	VVV (x3) Q2M DE NYZ (x2) QSA ? K //10640	(JPL)
6840	24-1-2013	1420	M89	CW	Thu	VVV (x3) Q2M DE NYZ (x2) QSA ? K	(JPL)
6840	24-1-2013	2020	M89	CW	Thu	VVV (x3) Q2M DE NYZ (x2) QSA ? K	(JPL)
6840	25-1-2013	1920	M89	CW	Fri	VVV (x3) Q2M DE NYZ (x2) QSA ? K	(JPL)
6840	27-1-2013	1420	M89	CW	Sun	VVV (x3) Q2M DE NYZ (x2) QSA ? K	(JPL)
6840	28-1-2013	1219	M89	CW	Mon	VVV (x3) Q2M DE NYZ (x2) QSA ? K	(JPL)
6840	28-1-2013	1619	M89	CW	Mon	VVV (x3) Q2M DE NYZ (x2) QSA ? K	(JPL)
6840	29-1-2013	1119	M89	CW	Tue	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	(JPL)
6840	30-1-2013	2020	M89	CW	Wed	VVV (x3) Q2M DE NYZ (x2) QSA ? K //4860	(JPL)
6840	31-1-2013	0120	M89	CW	Thu	VVV (x3) Q2M DE NYZ (x2) QSA ? K //10640	(JPL)
6845	29-1-2013	1500	S06s	USB	Tue	537 537 537 00000	(AB)
6846	24-1-2013	0610	E07a	USB	Thu	188 1 67976 949 48 08470 ... 73508 000 000	(Spec)
6853	14-1-2013	0815	M51	CW	Mon		(FMB)
6854	8-1-2013	1813	M51	CW	Tue	ip.	

Freq.	date	UTC	enigma	mode	day	remarks	contributor
6866	13-1-2013	1752	M42	CROWD-36	Sun	Russian diplo.	(LG2)
6875	23-1-2013	1515	M32	CW	Wed	Russian Mil. TZWN wkg LETP, VYWF QTC	(LG2)
6875	23-1-2013	1633	M32	CW	Wed	Russian Mil. TZWN wkg clg SEVV UAXZ ZEW9 QZDQ JQA7	(LG2)
6875	23-1-2013	1726	M32	CW	Wed	Russian Mil. TZWN wkg YZWN QTK K QTC	(LG2)
6880	16-1-2013	0820	S06s	USB	Wed	471 236 5 40995 55122 14576 98045 78802 236 5 00000	(Spec/FMB)
6880	23-1-2013	0820	S06s	USB	Wed	471 236 5 40995 55122 14576 98045 78802 236 5 00000	(Spec/FMB)
6904	10-1-2013	1740	M12	CW	Thu	257 1 9791 59 17061 51374 91574 27868 83439 52867 ... 19688 34222	(MPJ/FN)
6904	10-1-2013	1940	M12	CW	Thu	257 1 4458 62 31610	(FN)
6904	14-1-2013	1740	M12	CW	Mon	257 1 6477 70 80196	(FN)
6904	14-1-2013	1840	M12	CW	Mon	257 1 8502 45 95292	(FN)
6904	17-1-2013	1740	M12	CW	Thu	257 1 9178 82 58632	(FN)
6904	17-1-2013	1940	M12	CW	Thu	257 1 3587 60 33112 000 000	(FN/Q)
6904	21-1-2013	1740	M12	CW	Mon	257 1 5386 74 65683	(FN)
6904	21-1-2013	1840	M12	CW	Mon	257 1 3438 50 38871	(FN)
6904	21-1-2013	1940	M12	CW	Mon	257 1 5976 61 90997	(FN)
6904	24-1-2013	1740	M12	CW	Thu	124 1 9701 77 30054	(FN)
6904	24-1-2013	1740	M12	CW	Thu	257 1 8832 81 67992	(FN)
6904	24-1-2013	1940	M12	CW	Thu	257 1 9394 43 19452	(FN)
6904	24-1-2013	1940	M12	CW	Thu	257 257 257 1 (R) msg 000 000	(Q-HOL)
6904	28-1-2013	1940	M12	CW	Mon	257 257 257 1 (R) 8022 62 8011 62 23978 84629 39109...	(Q-HOL)
6904	31-1-2013	1943	M12	CW	Thu	ip ... 000 000	(Q-HOL)
6917.5	29-1-2013	1830	MX	CW	Tue	Beacon "L"	(AB)
6917.5	30-1-2013	1813	MX	CW	Wed	Beacon "L"	(AB)
6917.9	10-1-2013	1434	MX	CW	Thu	Beacon "L"	(JPL-SE)
6917.9	11-1-2013	1059	MX	CW	Fri	Beacon "L"	(AB)
6918	29-1-2013	1654	MX	CW	Tue	Beacon "L" //5156.8	(JPL)
6920	30-1-2013	1742	EV02	USB	Wed	Male operator reading from the book "Born to Run". Coughing his way through it, with occasional pauses	(JLM)
6923	3-1-2013	1925	E11c	USB	Thu	658/0000/00	(Q-HOL)
6923	3-1-2013	1925	E11c	USB	Thu	658/0000/00	(Q-HOL)
6923	4-1-2013	1710	E11	USB	Fri	959/29 79525 45271 ... 35066 25495	(MPJ)
6923	11-1-2013	1710	E11a	USB	Fri	955/30 82840 59568 10490 94607 79199 ... 82788 06056	(MPJ)
6923	11-1-2013	1710	E11a	USB	Fri	955/30 Attention 82840 ... 06056 Out	(Spec)
6923	17-1-2013	1925	E11c	USB	Thu	758/0000/00	(HFD)
6923	17-1-2013	1926	E11c	USB	Thu	758/0000/00	(Q-HOL)
6923	18-1-2013	1710	E11	USB	Wed	957/30	(Daunt)
6923	24-1-2013	1925	E11c	USB	Thu	658/0000/00 OUT	(Q-HOL)
6923	25-1-2013	1710	E11a	USB	Fri	853/26 46820 96763 43511 48489 32689 ... 03632 15997 51148 02781 49923 +	(MPJ)
6923	31-1-2013	1927	E11c	USB	Thu	758/0000/00	(Q-HOL)
6924	15-1-2013	0700	E11	USB	Tue	758/0000/00	(FMB)
6937	9-1-2013	1842	M23	CW	Wed	333 (R3) 20 20 bt 48247 55232 111505...70729 257(?)71 bt imi imi bt 20 20 bt 482	
6937	9-1-2013	1940	M23	CW	Wed	333 ..(rpt al 18:42 09.01. 2013)	
6937	15-1-2013	1601	M23	CW	Tue	747 (R)	(JPL-G)
6941	31-1-2013	0600	M32	CW	Thu	Russian Mil. LEJ8 de ZOMR QTC K. LEJ8 de ZOMR QTC K. ZOMR 725 30 31 1010 725 = 743 = SOLTG P P P P P IXCOH ... (ending) chŮZMQ EĀPWĪ (31028) K	(NR)
6964	16-1-2013	0744	M01	CW	Wed	(ip).==1t1 1t1 5t 5t ttt	(FMB)
6964	21-1-2013	0732	M01	CW	Mon	81t (R3) ttt (/ / 7979 kHz)	(FMB)
6964	22-1-2013	0737	M01	CW	Tue	ip. 8t864== 736 736 5t 5t ttt	(FMB)
6964	24-1-2013	0732	M01	CW	Thu	81t (R²) 1t9 1t9 5t 5t==73645... (/ / 7978 kHz)	(FMB)
6964 R	23-1-2013	0737	M01	TTY	Wed	(ip) 4.485 ==5t 5t ttt (/ / 7978)	(FMB)
6982	2-1-2013	2002	E07	AM	Wed	981 981 981 000	(Q-HOL)
6982	7-1-2013	2000	E07	AM	Mon	981 981 981 1(R) 525 58 525 58 msg 000 000	(Q-HOL)
6982	7-1-2013	2000	E07	AM	Mon	981 1 525 58 38286 ... 97406 000 000	(Spec)
6982	9-1-2013	2000	E07	AM	Wed	in progress "... 28592 58701 14961 96033 49163 34885 ..." end of msg "NULL NULL NULL"	(SP1)
6982	14-1-2013	2000	E07	AM	Mon	981 0	(HFD)
6982	14-1-2013	2000	E07	USB	Mon	981 981 981 000	(MPJ)
6982	14-1-2013	2000	E07	AM	Mon	981 981 981 000	(Spec)
6982	28-1-2013	2000	E07	AM	Mon	unreadable	(Q-HOL)
6982	30-1-2013	2020	E07	AM	Wed	981 981 981 000	(Q-HOL)

Freq.	date	UTC	enigma	mode	day	remarks	contributor
7025	3-12-2012	1349	M32	CW		Russian Mil: XXX XXX RDL 69043 23460 LETONKA 3598	(IARUMS)
7033.6	10-1-2013	2306	MX	CW	Thu	Beacon "D" Also on other places down the band	(MPJ)
7034.9	10-1-2013	2306	MX	CW	Thu	Beacon "D" Odessa/Sevastopol	(MPJ)
7038.4	30-1-2013	1711	MX	CW	Wed	Beacon "M"	(Daunt)
7038.7	10-1-2013	2134	MX	CW	Thu	Beacon "D"	(AB)
7038.7	12-1-2013	2114	MX	CW	Sat	Beacon "D" Odessa/Sevastopol	(MPJ)
7038.8	26-1-2013	0842	MX	CW	Sat	Beacon "P"	(AB)
7038.9	11-1-2013	0959	MX	CW	Fri	Beacon "S"	(AB)
7039	10-1-2013	2134	MX	CW	Thu	Beacon "C"	(AB)
7039	11-1-2013	0959	MX	CW	Fri	Beacon "C"	(AB)
7039	12-1-2013	2114	MX	CW	Sat	Beacon "C" Moscow	(MPJ)
7039.1	10-1-2013	2134	MX	CW	Thu	Beacon "A"	(AB)
7039.2	11-1-2013	0959	MX	CW	Fri	Beacon "F"	(AB-Sib)
7039.4	11-1-2013	0959	MX	CW	Fri	Beacon "M"	(AB-Sib)
7150	4-1-2013	0700	S06s	USB	Fri	196 234 5 52343 79628 42432 56075 56281 234 5 00000	(AB)
7150	4-1-2013	0700	S06s	USB	Fri	196 234 5 52343 79628 42432 56075 56281 234 5 00000	(AB)
7150	11-1-2013	0700	S06s	USB	Fri	196 234 5 52343 79628 42432 56075 56281 234 5 00000	(AB)
7316	13-1-2013	1125	E06	AM	Sun	Test counts	(WWUK)
7317	3-1-2013	0820	E11a	USB	Thu	435/32 Attention 53822 ... 09443 Out	(Spec)
7317	10-1-2013	0820	E11	USB	Thu	438/00	(Spec)
7317	14-1-2013	0820	E11	USB	Mon	438/00	(Spec)
7317	17-1-2013	0820	E11	USB	Thu	438/00	(Spec)
7317	21-1-2013	0820	E11	USB	Mon	436/37	(FMB)
7317	21-1-2013	0820	E11a	USB	Mon	436/37 Attention 63753 ... 51409 Out	(Spec)
7317	24-1-2013	0820	E11	USB	Thu	438/00	(Spec)
7335	16-1-2013	0830	S06	USB	Wed	745	(FMB)
7335	16-1-2013	0830	S06s	USB	Wed	745 283 6 99228 77544 04816 56557 50316 72237 283 6 00000	(Spec)
7335	23-1-2013	0830	S06s	USB	Wed	745 283 6 99228 77544 04816 56557 50316 72237 283 6 00000	(Spec)
7411	22-1-2013	0730	S06	USB	Tue	427	(FMB)
7436	15-1-2013	1613	M51	CW	Tue	ip	(FMB)
7436	16-1-2013	0713	M51	CW	Wed	ip	(FMB)
7438	19-1-2013	0620	M12	CW	Sat	842 000	(FN)
7438	26-1-2013	0620	M12	CW	Sat	842 000	(FN)
7468	13-1-2013	1910	M12	CW	Sun	194 1 282 107 90683	(FN)
7468	16-1-2013	1910	M12	CW	Wed	194 1 219 127 14425	(FN)
7468	20-1-2013	1910	M12	CW	Sun	194 1 219 127 14425	(FN)
7468	31-1-2013	1910	M12	CW	Thu	194 1	(HFD)
7504	1-1-2013	0915	S11a	USB	Tue	484/00	(AB)
7504	11-1-2013	0710	S11a	USB	Fri	484/00	(AB)
7504	11-1-2013	0915	S11a	USB	Fri	484/00	(Spec)
7504	15-1-2013	0915	S11a	USB	Tue	484/00	(Spec)
7504	25-1-2013	0915	S11a	USB	Fri	484/00	(Spec)
7504	29-1-2013	0918	S11a	USB	Tue	in progress	(AB)
7552	14-1-2013	1320	M12	CW	Mon	157 1 974 139 51064	(FN/HFD)
7552	14-1-2013	1320	M12	CW	Mon	157 1	(HFD)
7552	15-1-2013	0918	M32	CW	Tue	Russian Mil. "DH9R DE LBYM K. QSV K. BK QRV K"	(TR2)
7552	15-1-2013	0921	M32	CW	Tue	Russian Mil. "LBYM R 037 K"	(TR2)
7552	21-1-2013	1320	M12	CW	Mon	157 000	(FN)
7552	28-1-2013	1320	M12	CW	Mon	157 157 157 1 msg	(AB)
7552	28-1-2013	1320	M12	CW	Mon	157 1 148 195 09953 29241 71904 61049 68738 ... 67328 81739 55107 07968 74865 000	(MPJ)
7582	7-1-2013	0031	M89	CW	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd)	(JPL)
7582	7-1-2013	0402	M89	CW	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd)	(JPL)
7582	8-1-2013	0117	M89	CW	Tue	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	(JPL)
7582	8-1-2013	0532	M89	CW	Tue	V 7NPE (x3) DE QV5B (x2) (Cont'd)	(JPL)
7582	10-1-2013	0337	M89	CW	Thu	V 7NPE (x3) DE QV5B (x2) (Cont'd)	(JPL)
7582	13-1-2013	0158	M89	CW	Sun	V 7NPE (x3) DE QV5B (x2) (Cont'd)	(JPL)
7582	14-1-2013	0026	M89	CW	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	(JPL)
7582	17-1-2013	0256	M89	CW	Thu	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	(JPL)
7582	18-1-2013	0341	M89	CW	Fri	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	(JPL)
7582	24-1-2013	0040	M89	CW	Thu	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	(JPL)
7582	24-1-2013	0314	M89	CW	Thu	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	(JPL)

Freq.	date	UTC	enigma	mode	day	remarks	contributor
7582	31-1-2013	0042	M89	CW	Thu	V 7NPE (x3) DE QV5B (x2) (Cont'd)	(JPL)
7602	7-1-2013	0035	M89	CW	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	(JPL)
7602	11-1-2013	0010	M89	CW	Fri	Chinese Mil. DKG6 DE 3A7D K (repeated)	(MPJ)
7602	11-1-2013	1230	M89	CW	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	(JPL)
7602	11-1-2013	1237	M89	CW	Fri	= = 36AU D546 46AU D53A NUTA 6U73 5643 (Con	(JPL)
7602	11-1-2013	1444	M89	CW	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	(JPL)
7602	11-1-2013	1553	M89	CW	Fri	In tfc: 6763 UA65 DT5A TATA T6U. AR QSL ? H	(JPL)
7602	15-1-2013	1548	M89	CW	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	(JPL)
7602	15-1-2013	1653	M89	CW	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	(JPL)
7602	16-1-2013	1639	M89	CW	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	(JPL)
7602	16-1-2013	1752	M89	CW	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	(JPL)
7602	16-1-2013	1918	M89	CW	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	(JPL)
7602	16-1-2013	2141	M89	CW	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	(JPL)
7602	18-1-2013	1344	M89	CW	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	(JPL)
7602	21-1-2013	1405	M89	CW	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	(JPL)
7602	24-1-2013	1355	M89	CW	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	(JPL)
7602	27-1-2013	1430	M89	CW	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	(JPL)
7607	8-1-2013	1148	M89	CW	Tue	V WITN (x3) DE GNXXG (x2) (Cont'd)	(JPL)
7607	8-1-2013	1300	M89	CW	Tue	V WITN (x3) DE GNXXG (x2) (Cont'd)	(JPL)
7607	10-1-2013	1411	M89	CW	Thu	V WITN (x3) DE GNXXG (x2) (Cont'd) //3724	(JPL)
7607	12-1-2013	1545	M89	CW	Sat	V WITN WITN WITN de GNXXG GNXXG	(FN)
7607	13-1-2013	1454	M89	CW	Sun	V WITN (x3) DE GNXXG (x2) (Cont'd)	(JPL)
7607	13-1-2013	1549	M89	CW	Sun	V WITN (x3) DE GNXXG (x2) (Cont'd)	(JPL)
7607	13-1-2013	1750	M89	CW	Sun	V WITN (x3) DE GNXXG (x2) (Cont'd)	(JPL)
7607	13-1-2013	2050	M89	CW	Sun	V WITN (x3) DE GNXXG (x2) (Cont'd)	(JPL)
7607	13-1-2013	2214	M89	CW	Sun	V WITN (x3) DE GNXXG (x2) (Cont'd) //3724	(JPL)
7607	14-1-2013	1304	M89	CW	Mon	V WITN (x3) DE GNXXG (x2) (Cont'd)	(JPL)
7607	14-1-2013	1641	M89	CW	Mon	V WITN (x3) DE GNXXG (x2) (Cont'd)	(JPL)
7607	14-1-2013	1959	M89	CW	Mon	V WITN (x3) DE GNXXG (x2) (Cont'd)	(JPL)
7607	14-1-2013	2036	M89	CW	Mon	V WITN WITN WITN DE GNBG GNBG	(BCI)
7607	29-1-2013	1617	M89	CW	Tue	V WITN (x3) DE GNXXG (x2) (Cont'd)	(JPL)
7607	29-1-2013	1640	M89	CW	Tue	V WITN (x3) DE GNXXG (x2) (Cont'd)	(JPL)
7607	29-1-2013	1645	M89	CW	Tue	V WITN (x3) DE GNXXG (x2) (Cont'd)	(JPL)
7607	30-1-2013	1514	M89	CW	Wed	V WITN (x3) DE GNXXG (x2) (Cont'd) //4590	(JPL)
7607	30-1-2013	1625	M89	CW	Wed	V WITN (x3) DE GNXXG (x2) (Cont'd) //4590	(JPL)
7607	30-1-2013	1640	M89	CW	Wed	V WITN (x3) DE GNXXG (x2) (Cont'd) //4590	(JPL)
7607	30-1-2013	2009	M89	CW	Wed	V WITN (x3) DE GNXXG (x2) (Cont'd) //4590	(JPL)
7607	31-1-2013	1152	M89	CW	Thu	V WITN (x3) DE GNXXG (x2) (Cont'd)	(JPL)
7607	31-1-2013	1238	M89	CW	Thu	V WITN (x3) DE GNXXG (x2) (Cont'd) //4590	(JPL)
7610	15-1-2013	0705	M42	RUS-ARQ 100/1000	Tue	Russian Gov/Intel.	(BCI)
7635	17-1-2013	0830	M42	RUS-ARQ 100/500	Thu	RWA50: Russian Gov/Intel. Rostow na Donu	(BCI)
7637.5	3-1-2013	0802	M32	CW	Thu	KOLJ: CIS mil. 5L message ending "DE KOLJ QRJ"	(PPA)
7650	17-1-2013	0830	M42	RUS-ARQ 100/500	Thu	Russian Gov/Intel.	(BCI)
7654	1-1-2013	0707	V13	USB	Tue	New Star in progress	(AB-HK)
7654	1-1-2013	0800	V13	USB	Tue	New Star. Tune followed by coded messages	(AB-HK)
7660	3-1-2013	0738	M32	CW	Thu	3FLA: Russian mil. "3FLA QTC 878 24 3 1135 878 = 864 = DDDDD"	(PPA)
7688	5-1-2013	1200	V13	USB	Sat	New Star. Tune and coded messages	(AB-USA)
7688	5-1-2013	1309	V13	USB	Sat	New Star in progress	(AB-USA)
7688	11-1-2013	1309	V13	USB	Fri	New Star in progress	(AB-USA)
7688	26-1-2013	1206	V13	USB	Sat	New Star in progress	(AB-USA)
7688	28-1-2013	1205	V13	USB	Mon	New Star in progress	(AB-USA)
7697	2-1-2013	1500	M12	CW	Wed	157 157 157 000	(FN/HFD)
7697	9-1-2013	1500	M12	CW	Wed	323 167 11537 17585 88192 73323 40355 ... 68652 44520 74568. 0 0 0.	(SP1)
7697	16-1-2013	1500	M12	CW	Wed	157 1 974 139 51064	(FN)
7697	16-1-2013	1500	M12	CW	Wed	157 1 974 139 51064 35132 18075 53483 12199 ... 10810 16606 0 0 0	(MPJ)
7697	23-1-2013	1500	M12	CW	Wed	157 000	(FN)
7731	24-1-2013	0542	X06	USB	Thu	?	(FMB)
7732	15-1-2013	0708	M42	FSK 200/500	Tue	Russian Intel.	(BCI)
7752	8-1-2013	2300	M42	FSK 200/1000	Tue	Russian Intel. 0-Msg	

Freq.	date	UTC	enigma	mode	day	remarks	contributor
7780	15-1-2013	0714	M42	RUS-ARQ 100/500	Tue	Russian Gov/Intel.	(BCI)
7785	31-1-2013	0830	M32	CW	Thu	CIS Mil. IQWI DE IEFN QRJ? QYT9	(TR2)
7789	25-1-2013	0730	M32	CW	Fri	Russian Mil. QTJN clg V9ZM "V9ZM V9ZM V9ZM DE QTJN QTJN QCZ"	(BCI)
7838	21-1-2013	0628	M32	CW	Mon	Russian Mil. NPKF clg NPKF "NPKF TT423 211T2 TTT43 K NPKF A 388 RK RK RK R A RK"	(BCI)
7840	8-1-2013	0645	E11	USB	Tue	517/00	(Spec)
7840	15-1-2013	0645	E11	USB	Tue	517/00	(Spec)
7840	16-1-2013	0830	S06s	USB	Wed	471 236 5 40995 55122 14576 98045 78802 236 5 00000	(Spec)
7840	17-1-2013	0645	E11	USB	Thu	517/00	(Spec)
7840	23-1-2013	0830	S06s	USB	Wed	471 236 5 40995 55122 14576 98045 78802 236 5 00000	(Spec)
7841	16-1-2013	0830	S06	USB	Wed	471	(FMB)
7855	21-1-2013	1105	M12	CW	Mon	(ip) 89541 679t7 19814 ttt ttt	(FMB)
7856	23-1-2013	1117	XPA2	USB	Wed	msg	(FMB)
7861	15-1-2013	1700	M42	FSK 200/1000	Tue	Russian Intel. 0-msg	(FMB)
7861	25-1-2013	1629	X06	USB	Fri	Mazielka	(AIK)
7865	21-1-2013	1124	M12	CW	Mon	1t651 75t18 27879 ttt ttt	(FMB)
7891	3-1-2013	1900	XPA	MFSK	Thu	873 873 873 000 (R) 08244 00001 00000 10140	(Q-HOL)
7891	8-1-2013	1900	XPA	MFSK	Tue	873 873 873 1 873 873 873 1 873 873 873 1 (R) msg	(Q-HOL)
7891	15-1-2013	1900	XPA	MFSK	Tue	Polytones numbers station	(Q-HOL)
7891	17-1-2013	1900	XPA	MSFK	Thu	873 873 873 000 08244 00001 00000 10140	(PPA)
7891	17-1-2013	1900	XPA	MFSK	Thu	Polytones numbers station	(Q-HOL)
7891	22-1-2013	1900	XPA	MFSK	Tue	msg	(HFD)
7891	22-1-2013	1900	XPA	MFSK	Tue	873 873 873 000 (R) 06354 00001 00000 10140	(Q-HOL)
7891	24-1-2013	1900	XPA	MFSK	Thu	Polytones numbers station	(Q-HOL)
7891	31-1-2013	1921	XPA	MFSK	Thu	Polytones numbers station	(Q-HOL)
7931	10-1-2013	1720	M12	CW	Thu	257 1 9791 59 17061	(FN)
7931	10-1-2013	1720	M12	CW	Thu	257 1 9791 59 17061 51374 91574 27868 83439 52867 ... 19688 34222	(MPJ)
7931	10-1-2013	1920	M12	CW	Thu	257 1 4458 62 31610	(FN)
7931	14-1-2013	1720	M12	CW	Mon	257 1 6477 70 80196	(FN)
7931	14-1-2013	1820	M12	CW	Mon	257 1 8502 45 95292	(FN)
7931	17-1-2013	1720	M12	CW	Thu	257 1 9178 82 58632	(FN)
7931	17-1-2013	1920	M12	CW	Thu	257 1 3587 60 33112	(FN)
7931	21-1-2013	1720	M12	CW	Mon	257 1 5386 74 65683	(FN)
7931	21-1-2013	1820	M12	CW	Mon	257 1 3438 50 38871	(FN)
7931	21-1-2013	1920	M12	CW	Mon	257 1 5976 61 90997	(FN)
7931	21-1-2013	1920	M12	CW	Mon	257 1 5976 61 90997 02716 77215 89530 35763 ... 80026 11839 0 0 0.	(MPJ)
7931	24-1-2013	1720	M12	CW	Thu	257 1 8832 81 67992	(FN)
7931	24-1-2013	1920	M12	CW	Thu	257 1 9394 43 19452	(FN)
7931	28-1-2013	1920	M12	CW	Mon	257 257 257 1 (R) msg	(Q-HOL)
7931	31-1-2013	1922	M12	CW	Thu	ip	(Q-HOL)
7938	1-1-2013	0709	VC01	USB	Tue	Chinese Robot in progress	(AB-HK)
7938	1-1-2013	0810	VC01	USB	Tue	Chinese Robot in progress	(AB-HK)
7938	4-1-2013	0644	VC01	USB	Fri	Chinese Robot in progress	(AB-HK)
7954	3-1-2013	0905	M32a	CW	Thu	ip, 42402 00001 01218 30010 00002 AR	(LP2)
7968	2-1-2013	1850	M12	CW	Wed	194 000	(FN)
7968	6-1-2013	1850	M12	CW	Sun	194 000	(FN)
7968	13-1-2013	1850	M12	CW	Sun	194 1 282 107 90683	(FN)
7968	16-1-2013	1850	M12	CW	Wed	194 1 219 127 14425	(FN)
7968	20-1-2013	1850	M12	CW	Sun	194 1 219 127 14425	(FN)
7968	23-1-2013	1850	M12	CW	Wed	194 000	(FN)
7968	27-1-2013	1850	M12	CW	Sun	194 000	(FN)
7968	31-1-2013	1850	M12	CW	Thu	194 1	(HFD)
7978	22-1-2013	0737	M01	CW	Tue	ip. 8t864== 736 736 5t 5t ttt	(FMB)
7978	24-1-2013	0732	M01	CW	Thu	81t (R²) 1t9 1t9 5t 5t==73645... (// 6964 kHz)	(FMB)
7978 R	23-1-2013	0737	M01	TTY	Wed	(ip) 4.485 ==5t 5t ttt (// 6964)	(FMB)
7979	17-1-2013	0747	M01	CW	Thu	(ip) 5t948 5t948 == 926 926 5t 5t ttt	(FMB)
7979	21-1-2013	0732	M01	CW	Mon	81t (R3) ttt (// 6964 kHz)	(FMB)
8016	19-1-2013	0900	M51	CW	Sat	ip	(FMB)
8016	21-1-2013	1350	M51	CW	Mon	ip	(FMB)
8016	22-1-2013	0710	M51	CW	Tue	ip	(FMB)
8016	26-1-2013	1511	M51	CW	Sat	5LGs	(ML4)

Freq.	date	UTC	enigma	mode	day	remarks	contributor
8023	1-1-2013	1220	M42	FSK 200/1000	Tue	Russian Intel. 18; 37 blocks	(FMB)
8023	16-1-2013	1220	M42	FSK 200/1000	Wed	Russian Intel. 37 blocks	(FMB)
8023	23-1-2013	1220	M42	FSK 200/1000	Wed	Russian Intel. 21; 36 blocks	(FMB)
8040	8-1-2013	0549	M89	CW	Tue	V H2FL (x3) DE DRV8 (x2) (Cont'd)	(JPL)
8040	10-1-2013	0353	M89	CW	Thu	V H2FL (x3) DE DRV8 (x2) (Cont'd) //6773	(JPL)
8047	9-1-2013	1700	M12	CW	Wed	463 1	(HFD)
8047	9-1-2013	1700	M12	CW	Wed	463 1 2379 54 30240 87518 38314 78278 77700 ... 76524 15657 68782	(SP1)
8047	16-1-2013	1700	M12	CW	Wed	463 1 3309 41 17336	(FN)
8047	23-1-2013	1700	M12	CW	Wed	463 1 8544 56 94882	(FN)
8047	30-1-2013	1700	M12	CW	Wed	463 1 7782 99 55439 32243 62279 25611 93852 ... 82309 43168 98488 10654 29752 000	(MPJ/Daunt)
8068	15-1-2013	0720	M42	FSK 200/1000	Tue	Russian Intel. 54 blocks	(FMB)
8068	16-1-2013	0726	M42	FSK 200/1000	Wed	Russian Intel. 34 blocks	(FMB)
8068	17-1-2013	0720	M42	FSK 200/1000	Thu	Russian Intel. 16; 60 blocks	(FMB)
8068	21-1-2013	0718	M42	FSK 200/500	Mon	Russian Intel.	(BCI)
8068	21-1-2013	0720	M42	FSK 200/1000	Mon	Russian Intel. 18; 37 blocks	(FMB)
8068	22-1-2013	0720	M42	FSK 200/1000	Tue	Russian Intel. 21; 46 blocks	(FMB)
8068	23-1-2013	0720	M42	FSK 200/1000	Wed	Russian Intel. 22; 36 blocks	(FMB)
8068	24-1-2013	0720	M42	FSK 200/1000	Thu	Russian Intel. 23; 64 blocks	(FMB)
8083	22-1-2013	0650	M42	Baudot 200/500	Tue	Russian Gov/Intel. 141 blocks; 423 gr.	(FMB)
8091	1-1-2013	1045	E11	USB	Tue	469/00	(Q-HOL)
8091	9-1-2013	1045	E11	USB	Wed	469/00	(Spec)
8091	15-1-2013	1045	E11	USB	Tue	469/00	(MPJ)
8102	18-12-2012	0729	POL	51-tone OFDM		Polish Intel. c/s ZK3K. Picture 121218072954-VN (10).jpg	(LDO)
8104.75	15-1-2013	0727	M42	RUS-ARQ 100/1000	Tue	Russian Gov/Intel.	(BCI)
8110	8-1-2013	0117	M89	CW	Tue	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	(JPL)
8110	9-1-2013	1026	M89	CW	Wed	V 7NPE (x3) DE QV5B (x2) (Cont'd)	(JPL)
8110	14-1-2013	0026	M89	CW	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	(JPL)
8110	17-1-2013	0256	M89	CW	Thu	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	(JPL)
8110	18-1-2013	0341	M89	CW	Fri	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	(JPL)
8110	20-1-2013	1110	M89	CW	Sun	V 7NPE (x3) DE QV5B (x2) (Cont'd)	(JPL)
8110	24-1-2013	0040	M89	CW	Thu	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	(JPL)
8110	24-1-2013	0314	M89	CW	Thu	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	(JPL)
8110	29-1-2013	0401	M89	CW	Tue	V 7NPE (x3) DE QV5B (x2) (Cont'd)	(JPL)
8111	24-1-2013	0851	M22	CW	Thu	4XZ - Haifa ISR "VVV DE '= 'VVV DE 4XZ 4XZ = = VVV DE 4XZ 4XZ ="	(BCI)
8112	7-1-2013	1300	M12	CW	Mon	157 1 323 167 11537	(FN)
8112	14-1-2013	1300	M12	CW	Mon	157 1 974 139 51064	(FN)
8112	14-1-2013	1300	M12	CW	Mon	157 1	(HFD)
8112	21-1-2013	1300	M12	CW	Mon	157 000	(FN)
8112	21-1-2013	1300	M12	CW	Mon	157 000	(MPJ)
8116	10-1-2013	1740	M12	CW	Thu	124 1 9249 78 89298	(FN)
8116	10-1-2013	1740	M12	CW	Thu	129 1 9249 78 89298 05756 94004 64542 70741 ... 89298 05756	(MPJ/HFD)
8116	10-1-2013	1840	M12	CW	Thu	124 1 1639 86 27402	(FN)
8116	11-1-2013	1840	M12	CW	Fri	124 1 4653 81 81945	(FN)
8116	15-1-2013	1910	M12	CW	Tue	124 1 4123 58 12737	(FN/MPJ)
8116	17-1-2013	1740	M12	CW	Thu	124 1 1375 74 45402	(FN)
8116	17-1-2013	1740	M12	CW	Thu	124 1 1375 7. 45402 75.31 49294 95957 26.15 ... 564.3 39.17. Flutter fade makes difficult copy	(MPJ)
8116	17-1-2013	1840	M12	CW	Thu	124 1 6405 53 37726	(FN)
8116	18-1-2013	1840	M12	CW	Fri	124 1 1052 79 85194	(FN)
8116	22-1-2013	1910	M12	CW	Tue	124 1 1372 69 15942	(FN/HFD)
8116	24-1-2013	1740	M12	CW	Thu	124 1 9701 87 30054 33301 60873 51002 22858 ... 96326 97285 42526 76915 72407 O O O.	(MPJ)
8116	24-1-2013	1840	M12	CW	Thu	124 1 7456 87 71080	(FN)
8116	25-1-2013	1840	M12	CW	Fri	124 1 8299 74 72522	(FN)
8131	15-1-2013	1050	RAv	USB	Tue	Russian Air Force	(TR2)
8131	23-1-2013	1045	RAv	USB	Wed	Russian Air Force. "90-573, I'm 64-132" etc. (see N&O 184)	(TR2)
8131	23-1-2013	1317	RAv	USB	Wed	Russian Air Force. Bombers en route	(GSN)
8153	14-1-2013	0810	M42	FSK 200/1000	Mon	Russian Intel. 13 Blocks	(FMB)
8153	21-1-2013	0810	M42	FSK 200/1000	Mon	Russian Intel. 18; 41 blocks	(FMB)
8197	16-1-2013	0715	M01a	CW	Wed	786(x3) 398t8(x2)	(FMB)

Freq.	date	UTC	enigma	mode	day	remarks	contributor
8214	4-1-2013	0710	S06s	USB	Fri	196 234 5 52343 79628 42432 56075 56281 234 5 00000	(AB)
8214	11-1-2013	0710	S06s	USB	Fri	196 234 5 52343 79628 42432 56075 56281 234 5 00000	(AB)
8252	25-1-2013	1543	RMv	USB	Fri	Russian Mil. ROBOTA clg VOVODYA short tactical messages	(LG2)
8345	3-1-2013	1000	M32a	CW	Thu	RBES: Russian Navy. "rmp de rbes qsa? k"	(WP3)
8345	3-1-2013	1210	M32a	CW	Thu	RKO81: Russian Navy AO Lena. "rmp de rko81 241 20 3 1600 241 = for rjh45 rjh74 rjd38 = 03121 99428 70101 41998 1904 10150 40332 54010 70200 81001 22253 00137 209// 325// 88000 80000 03016 = + rko81 k"	(WP3)
8345	3-1-2013	1605	M32a	CW	Thu	RCJG: Russian Navy AO Ivan Bubnov. "rcv de rcjg 752 18 3 1000 752 = sml for rjh45 rje73 = 03061 99349 10367 41498 51007 10160 40262 52010 70111 84300 22222 00170 20000 88000 03014 = + rcjg k"	(WP3)
8345	3-1-2013	1610	M32a	CW	Thu	RIR96: Russian Navy. "rcv de rir96 347 16 3 0955 347 = for rje73 rjh45 = 03061 99358 10348 41597 60903 10162 40279 53030 70202 86670 22200 00192 20503 03013 = + rir96 k"	(WP3)
8345	5-1-2013	0605	M32a	CW	Sat	RKO81: Russian Navy AO Lena. "rmp de rko81 104 20 5 1000 104 = for rjh45 rjd38 rje73 = 05061 99363 70080 41798 21307 10170 40306 54 000 70200 82400 22253 00150 2//// 399// 88000 80000 05016 = + rko81 k"	(WP3)
8345	8-1-2013	1810	M32a	CW	Tue	Russian Navy AO Lena. "rmp de rko81 247 20 8 2200 247 = for rjh45 rjd38 rje73 = 08181 99378 10086 41698 72709 10165 40252 54007 70232 875// 22222 00165 2//// 399// 88000 80000 08016 = rko81 k"	(WP3)
8345	11-1-2013	0005	M32a	CW	Fri	Russian Navy: "rcv de rbes 249 15 11 0352 249 = sml for rjh45 rje73 rjd38 = 11001 99354 70191 43/97 82305 10170 40190 56030 70022 22232 11010 = + rbes k"	(WP3)
8345	11-1-2013	0210	M32a	CW	Fri	Russian Navy: "rcv de rbes 673 33 11 0601 673 = sml for rcv rmp = 11111 77869 06803 41510 33520 ...= +rbes k 2013-01-11 (wp3)	(WP3)
8345	11-1-2013	0600	M32a	CW	Fri	Russian Navy: "rcv de rbes 299 16 11 1001 299 = sml for rjh45 rje73 rjd38 = 11071 99351 70204 43498 82208 10180 40170 54010 70121 88250 22232 11012 = + rbes k"	(WP3)
8345	13-1-2013	----	M32a	CW	Sun	RHL80: Russian Navy "rpm de rhl80 ok as3 qyt4 wrk k qyt4 qwh k qyt4 qsx 13935/13935 k qwh 8330/8330 qls k"	(WP3)
8345	13-1-2013	----	M32a	CW	Sun	RCJG: Russian Navy AO Ivan Bubnov "rcv de rcjg 833 18 13 1600 833 = sml for rjh45 rje73 = 13121 99349 10342 41498 81306 10150 40215 54000 70252 78200 22222 00150 20000 88000 13014 = + rcjg k"	(WP3)
8345	13-1-2013	----	M32a	CW	Sun	RBES: Russian Navy Tug Sliva (SB-921) "rcv de rbes416 26 14 0200 416 = sml for rcv = 11111 51459 94194 "	(WP3)
8345	13-1-2013	0001	M32a	CW	Sun	RBES: Russian Navy Tug Sliva (SB-921) "rcv de rbes 569 15 13 0355 569 = sml for rjh45 rje73 rjd38 = 13001 99344 10294 43/98 42309 10160 40210 51030 70211 22222 13010 = rbes k"	(WP3)
8345	13-1-2013	0625	M32a	CW	Sun	RBES: Russian Navy Tug Sliva (SB-921) "rcv de rbes 993 16 13 1010 993 = sml for rjh45 rje73 rjd38 = 13061 99343 10306 43498 33208 10160 40200 52010 70110 83260 22222 13011 = + rbes k"	(WP3)
8345	14-1-2013	----	M32a	CW	Mon	RKO81: Russian Navy AO Lena "rcv de rko81 qsa? k (nil) rmp de rko81 qsa? k (nil) riw de rko81 qsa? qtc k"	(WP3)
8345	21-1-2013	1812	M32a	CW	Mon	RKO81: Russian Navy Tanker Lena 5F message and QRU	(PPA)
8345	22-1-2013	1801	M32a	CW	Tue	RBES: Russian Navy Tug Sliva (SB-921) "rcv de rbes 144 16 22 2203 144 = sml for rjh45 rje73 rjd38 = 22181 99360 10352 43596 20912 10180 40130 54000 70100 821// 22261 22011 = rbes k"	(WP3)
8345	22-1-2013	1805	M32a	CW	Tue	RKO81: Russian Navy AO Lena "rcv de rko81 481 20 22 2200 481 = for rjh45 rjd38 rje73 = 22181 99367 10262 41698 32512 10160 40106 52013 70200 83140 22200 00176 20603 399// 88000 80000 22016 = + rko81 k"	(WP3)
8345	23-1-2013	0001	M32a	CW	Wed	RBES: Russian Navy Tug Sliva (SB-921) "rcv de rbes 128 15 23 0352 128= sml for rjh45 rje73 rjd38 = 23001 99359 10349 43597 61305 10150 40150 52020 70211 22231 23010 = + rbes k"	(WP3)
8345	26-1-2013	0611	M32a	CW	Sat	Russian Navy Tanker Ivan Bubnov "RCV DE RCJG 360 18 26 1000 360 = SML FOR RJH45 RJE73 = 26061 99358 10348 41498 70000 10160 40151 53010 70221 87300 22200 00160 20000 88000 26014 = + RCJG K"	(Tom)
8345	26-1-2013	0617	M32a	CW	Sat	Russian Navy Tanker Lena "RCV DE RKO81 443 20 26 1000 443 = FOR RJH45 RJD38 RJE73 = 26061 99343 10317 41798 21406 10150 40106 54000 70121 82121 22233 00162 29901 328// 88000 80000 26016 = + RKO81 K"	(Tom)
8420	7-1-2013	1300	S06s	USB	Mon	831 957 6 29245 28842 82264 14255 81545 74167 957 6 00000	(Spec)
8420	14-1-2013	1300	S06s	USB	Mon	831 957 6 29245 28842 82264 14255 81545 74167 957 6 00000	(Spec)
8420	21-1-2013	1300	S06s	USB	Mon	831 529 6 35587 40496 16812 85564 15279 40816 529 6 00000	(Spec)
8420	28-1-2013	1300	S06s	USB	Mon	831 529 6 35587 40496 16812 85564 15279 40816 529 6 00000	(AB)
8453	15-1-2013	0739	M32	CW	Tue	Russian Mil. PMMA clg ARTY "ARYT DE PMMA QTC AR PT3 H 18 121 1 1142 4JEO ="	(BCI)

Freq.	date	UTC	enigma	mode	day	remarks	contributor
8494.7	21-1-2013	2008	MX	CW	Mon	Beacon "D"	(AB)
8494.8	20-1-2013	1145	MX	CW	Sun	Beacon "P"	(AB)
8494.8	26-1-2013	0842	MX	CW	Sat	Beacon "P"	(AB)
8494.9	11-1-2013	0959	MX	CW	Fri	Beacon "S"	(AB)
8495	10-1-2013	2134	MX	CW	Thu	Beacon "C"	(AB)
8495	11-1-2013	0959	MX	CW	Fri	Beacon "C"	(AB)
8495	20-1-2013	1145	MX	CW	Sun	Beacon "C"	(AB)
8495.1	10-1-2013	2134	MX	CW	Thu	Beacon "A"	(AB)
8495.1	11-1-2013	0959	MX	CW	Fri	Beacon "A"	(AB-Sib)
8495.2	11-1-2013	0959	MX	CW	Fri	Beacon "F"	(AB-Sib)
8495.3	11-1-2013	0959	MX	CW	Fri	Beacon "K"	(AB-Sib)
8495.4	11-1-2013	0959	MX	CW	Fri	Beacon "M"	(AB-Sib)
8497.8	10-1-2013	1434	MX	CW	Thu	Beacon "L"	(JPL-SE)
8497.8	11-1-2013	0959	MX	CW	Fri	Beacon "L"	(AB)
8497.8	12-1-2013	1439	MX	CW	Sat	Beacon "L" St. Petersburg	(AB)
8497.8	29-1-2013	1154	MX	CW	Tue	Beacon "L"	(AB)
8497.8	30-1-2013	1813	MX	CW	Wed	Beacon "L"	(AB)
8680	5-1-2013	1200	S06s	USB	Sat	254 910 6 12542 97525 85532 54548 77592 80417 910 6 00000	(Spec)
8789	31-1-2013	0059	M89	CW	Thu	V WITN (x3) DE GNXX (x2) (Cont'd) //10779	(JPL)
8789	31-1-2013	1105	M89	CW	Thu	V WITN (x3) DE GNXX (x2) (Cont'd) //10779	(JPL)
9060	21-1-2013	1144	M12	CW	Mon	1t651 75t18 27879 ttt ttt	(FMB)
9063	13-1-2013	0806	HM01	AM/RDFT	Sun	callup includes 81175	(KC2TTK)
9065	2-1-2013	0845	HM01	AM/RDFT	Wed	in progress	(Dan)
9065	9-1-2013	0815	HM01	AM/RDFT	Wed	5FGs followed by data	(MOR)
9065	9-1-2013	0840	HM01	AM/RDFT	Wed	5FGs followed by data	(MOR)
9065	14-1-2013	0800	HM01	AM/RDFT	Mon	17384 72856 81157 21735 72143 88716	(Dan)
9065	14-1-2013	0832	HM01	AM/RDFT	Mon	88176 17384 72876 -OP mistake ??-	(Dan)
9065	14-1-2013	0833	HM01	AM/RDFT	Mon	17051 17385 16111 81158 21736 72144	(Dan)
9065	18-1-2013	0800	HM01	AM/RDFT	Fri	64442 17034 65611 16114 21513 36133	(Dan)
9065	20-1-2013	0810	V02a	AM	Sun	V02a and SK01 together	(RT)
9065	21-1-2013	0800	HM01	AM/RDFT	Mon	64445 66112 65614 16117 18061 36136	(Dan)
9076	11-1-2013	1500	X06	USB	Fri	Mazielka, Sequence: 215346	(FN)
9109	16-1-2013	0703	XPA	USB	Wed	ip	(FMB)
9134	21-1-2013	1052	M01a	CW	Mon	(ip) 55176 = 414 5; 111 146(?)8; ttt	(FMB)
9135	1-1-2013	0810	S06s	USB	Tue	353 814 6 97298 19155 12244 15906 19546 79663 814 6 00000	(AB)
9135	1-1-2013	0810	S06s	USB	Tue	352 814 6 97298 19155 12244 15906 19546 79663 814 6 00000	(Spec)
9135	8-1-2013	0810	S06s	USB	Tue	352 814 6 97298 19155 12244 15906 19546 79663 814 6 00000	(Spec)
9162	1-1-2013	1035	M42	Baudot 200/500	Tue	Russian Gov/Intel. 140 blocks; 417 gr.	(FMB)
9162	21-1-2013	1035	M42	Baudot 200/500	Mon	Russian Gov/Intel. 141 blocks; 421 gr.	(FMB)
9163	22-1-2013	1035	M42	Baudot 200/500	Tue	Russian Gov/Intel.	(FMB)
9163	23-1-2013	1035	M42	FSK 200/1000	Wed	Russian Intel. 139 blocks; 414 gr.	(FMB)
9165	21-1-2013	1224	M12	CW	Mon	(ip) 64354 52481 ttt ttt	(FMB)
9168	2-1-2013	1830	M12	CW	Wed	194 000	(FN)
9168	6-1-2013	1830	M12	CW	Sun	194 000	(FN)
9168	13-1-2013	1830	M12	CW	Sun	194 1 ...	(FN)
9168	16-1-2013	1830	M12	CW	Wed	194 1 219 127 14425	(FN)
9168	20-1-2013	1830	M12	CW	Sun	194 1 219 127 14425	(FN)
9168	23-1-2013	1830	M12	CW	Wed	194 000	(FN)
9168	27-1-2013	1830	M12	CW	Sun	194 000	(FN)
9168	30-1-2013	1830	M12	CW	Wed	194 1	(HFD)
9170	29-1-2013	1510	S06s	USB	Tue	537 537 537 00000	(AB)
9176	10-1-2013	1700	M12	CW	Thu	257 1 9791 59 17061	(FN)
9176	10-1-2013	1900	M12	CW	Thu	257 1 4458 62 31610 50438 73334 57297 21607 ... 75790 08580 0 0 0	(MPJ/FN)
9176	14-1-2013	1700	M12	CW	Mon	257 1 6477 70 80196 36908 06158 43268 80635 ... 90334 07124 000	(MPJ/FN)
9176	14-1-2013	1800	M12	CW	Mon	257 1 8509 45 95292 26583 87036 33489 50848 ... 27035 35403 000	(MPJ/FN)
9176	14-1-2013	1900	M12	CW	Mon	257 1 7158 65 68119	(FN)
9176	14-1-2013	1900	M12	CW	Mon	257 1 7158 65 67119 41993 72280 60051 20926 ... 63816 74603 000	(MPJ)
9176	14-1-2013	1920	M12	CW	Mon	257 1 7158 65 68119	(FN)
9176	14-1-2013	1940	M12	CW	Mon	257 1 7158 65 68119	(FN)
9176	17-1-2013	1700	M12	CW	Thu	257 1 9178 82 58632 96038 09124 22957 39797 ... 40638 89245 0 0 0	(MPJ/FN)
9176	17-1-2013	1900	M12	CW	Thu	257 1 3587 60 33112	(FN)
9176	17-1-2013	1905	M12	CW	Thu	ip, "...000"	(Q-HOL)

Freq.	date	UTC	enigma	mode	day	remarks	contributor
9176	21-1-2013	1700	M12	CW	Mon	257 1 5386 74 65683 12581 68755 43201 82215 ... 67702 23940 0 0 0	(MPJ/FN)
9176	21-1-2013	1800	M12	CW	Mon	257 1 3438 50 38871	(FN)
9176	21-1-2013	1900	M12	CW	Mon	257 1 5976 61 90997	(FN)
9176	24-1-2013	1700	M12	CW	Thu	257 1 8832 81 67992	(FN)
9176	24-1-2013	1900	M12	CW	Thu	257 1 ...	(FN)
9176	31-1-2013	1900	M12	CW	Thu	257 257 257 1 (R) msg	(Q-HOL)
9212	19-1-2013	0900	M51	CW	Sat	ip	(FMB)
9212	21-1-2013	1350	M51	CW	Mon	ip	(FMB)
9212	22-1-2013	0710	M51	CW	Tue	ip	(FMB)
9213	13-1-2013	1135	M51	CW	Sun	ip 5LGs	(LG2)
9213	14-1-2013	1537	M51	CW	Mon		(FMB)
9239.75	25-1-2013	0703	M42	RUS-ARQ 100/1000	Fri	Russian Gov/Intel.	(BCI)
9240	2-1-2013	0900	HM01	AM/RDFT	Wed	in progress	(Dan)
9240	28-1-2013	0900	HM01	AM/RDFT	Mon	53383 78707 72261 46872 88456 03804	(Dan)
9261	16-1-2013	0840	S06	USB	Wed	328	(FMB)
9264	10-1-2013	1720	M12	CW	Thu	124 1 9249 78 89298	(FN/HFD)
9264	10-1-2013	1820	M12	CW	Thu	124 1 1639 86 27402	(FN)
9264	11-1-2013	1820	M12	CW	Fri	124 1 4653 81 81945	(FN)
9264	17-1-2013	1720	M12	CW	Thu	124 1 1375 74 45402	(FN)
9264	17-1-2013	1820	M12	CW	Thu	124 1 6405 53 37726	(FN)
9264	18-1-2013	1820	M12	CW	Fri	124 1 1052 79 85194	(FN/Daunt)
9264	22-1-2013	1850	M12	CW	Tue	124 1 1372 69 15942 87134 02961 55929 51160 ... 58008 80150 0 0 0	(MPJ/FN/HFD)
9264	24-1-2013	1720	M12	CW	Thu	124 1 9701 77 30054	(FN)
9264	24-1-2013	1820	M12	CW	Thu	124 1 7456 87 71080	(FN)
9264	24-1-2013	1820	M12	CW	Thu	124 1 7456 87 71080 72251 13313 40702 67103 31450 ... 20595 48995 43695 34824 69776 0 0 0	(MPJ/Q)
9264	25-1-2013	1820	M12	CW	Fri	124 1	(FN)
9264	31-1-2013	1820	M12	CW	Thu	... 000 000"	(Q-HOL)
9327	16-1-2013	1910	M12	CW	Wed	938 1	(FN)
9327	23-1-2013	1910	M12	CW	Wed	938 1	(HFD)
9330	20-1-2013	0700	V02a	AM	Sun	V02a and SK01 together	(RT)
9330	23-1-2013	0747	V02a	AM	Wed	SS/YL 5FGs	(ML4)
9446	9-1-2013	0900	E11	USB	Wed	534/00	(Spec)
9446	14-1-2013	0830	E11	USB	Mon	649/00	(Spec)
9446	14-1-2013	0900	E11	USB	Mon	534/00	(Spec)
9446	21-1-2013	0830	E11	USB	Mon	649/00	(Spec)
9447	16-1-2013	0904	E11	USB	Wed	ip.	(FMB)
9450	20-1-2013	1200	E25	AM	Sun	YL 270 270 270 MESSAGE 1953 2080 6010 0798 1459 9030 1110 6010 etc (see N&O 184)	(AIK)
9450	21-1-2013	1200	E25a	AM	Mon	YL 275 270 275 270 275 MESSAGE 1953 2080 6010 0798 1459 etc (see N&O 184)	(AIK)
9450	22-1-2013	1130	E25	AM	Tue	1 msg. Windows shutdown sound	(AIK)
9450	22-1-2013	1159	E25a	AM	Tue	YL 277 5 270 4 2 2 2 2 END OF MESSAGE END OF TRANSMISSION	(AIK)
9450	23-1-2013	1158	E25a	AM	Wed	YL 277 4 277 4 277 4 277 4 277 4 277 4 277 4 277 4 277 4 2 EOM EOT	(AIK)
9610	1-1-2013	1020	S11a	USB	Tue	236/00	(Q-HOL)
9610	29-1-2013	1020	S11a	USB	Tue	426/00	(AB)
9820	3-1-2013	0810	E17z	USB	Thu	674 258 5 05928 67844 67328 98823 78873 258 5 00000	(Spec)
9820	10-1-2013	0810	E17z	USB	Thu	674 258 5 05928 67844 67328 98823 78873 258 5 00000	(Spec)
9820	17-1-2013	0810	E17z	USB	Thu	674 289 5 34682 97455 52122 42277 76294 289 5 00000	(Spec)
9820	24-1-2013	0810	E17z	USB	Thu	674 289 5 34682 97455 52122 42277 76294 289 5 00000	(Spec)
10115.5	14-1-2013	1450	M51	CW	Mon	NR 68 J 14 15:49:40 1985 BT FRCKS KEGXV EQKHM WULMY H.OFD ...	(MPJ)
10158	1-1-2013	1210	M42	FSK 200/1000	Tue	Russian Intel. 18; 37 blocks	(FMB)
10158	16-1-2013	1210	M42	FSK 200/1000	Wed	Russian Intel. 37 blocks	(FMB)
10158	23-1-2013	1210	M42	FSK 200/1000	Wed	Russian Intel. 21; 36 blocks	(FMB)
10175	14-1-2013	0800	M42	FSK 200/1000	Mon	Russian Intel. 13 Blocks	(FMB)
10175	15-1-2013	0800	M42	FSK 200/1000	Tue	Russian Intel. 13 blocks	(FMB)
10175	21-1-2013	0800	M42	FSK 200/1000	Mon	Russian Intel. 18; 41 blocks	(FMB)
10180	8-1-2013	1133	M89	CW	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	(JPL)
10180	8-1-2013	1150	M89	CW	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	(JPL)
10180	9-1-2013	1015	M89	CW	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	(JPL)
10180	10-1-2013	0959	M89	CW	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	(JPL)

Freq.	date	UTC	enigma	mode	day	remarks	contributor
10180	11-1-2013	0709	M89	CW	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	(JPL)
10180	13-1-2013	0209	M89	CW	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	(JPL)
10180	17-1-2013	0303	M89	CW	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	(JPL)
10180	20-1-2013	1106	M89	CW	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	(JPL)
10180	21-1-2013	0307	M89	CW	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	(JPL)
10180	21-1-2013	1028	M89	CW	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	(JPL)
10180	22-1-2013	1133	M89	CW	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	(JPL)
10180	24-1-2013	0308	M89	CW	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	(JPL)
10180	29-1-2013	0346	M89	CW	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	(JPL)
10180	29-1-2013	1138	M89	CW	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	(JPL)
10180	29-1-2013	1147	M89	CW	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	(JPL)
10180	30-1-2013	0302	M89	CW	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	(JPL)
10180	30-1-2013	1229	M89	CW	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	(JPL)
10180	31-1-2013	1103	M89	CW	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	(JPL)
10180	31-1-2013	1149	M89	CW	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	(JPL)
10210	8-1-2013	1810	E11a	USB	Tue	987/10 Attention 01465 34957 37699 82624 84952 62355 26281 53106 23749 65617. Moved to 10213 kHz during the message	(Avare/Q)
10213	15-1-2013	1813	E11a	USB	Tue	984/10 ATTENTION 31406 57281 37427 57433 30315 31494 24709 96206 41269 15216 OUT	(Q-HOL)
10213	22-1-2013	1810	E11a	USB	Tue	981/10 Attention 42206 56599 32143 73483 76308 59212 50492 52999 90486 36213 Out	(Q-HOL)
10265	1-1-2013	0800	S06s	USB	Tue	353 814 6 97298 19155 12244 15906 19546 79663 814 6 00000	(AB/Spec)
10265	8-1-2013	0800	S06s	USB	Tue	352 814 6 97298 19155 12244 15906 19546 79663 814 6 00000	(Spec)
10293	22-1-2013	0710	M42	FSK 200/1000	Tue	Russian Intel. 21; 46 blocks	(FMB)
10293	24-1-2013	0710	M42	FSK 200/1000	Thu	Russian Intel. 23; 64 blocks	(FMB)
10294	23-1-2013	0710	M42	FSK 200/1000	Wed	Russian Intel. 22; 36 blocks	(FMB)
10343	10-1-2013	1700	M12	CW	Thu	124 1 9249 78 89298	(FN/HFD)
10343	10-1-2013	1800	M12	CW	Thu	124 1 1639 86 27402	(FN)
10343	11-1-2013	1800	M12	CW	Fri	124 1 4653 91 91045 00677 93347 86575 36059 ... 20156 38218	(MPJ/FN)
10343	17-1-2013	1700	M12	CW	Thu	124 1 1375 74 45402	(FN)
10343	17-1-2013	1800	M12	CW	Thu	124 1 6405 53 37726	(FN)
10343	18-1-2013	1800	M12	CW	Fri	124 1 1052 79 85194	(FN)
10343	22-1-2013	1830	M12	CW	Tue	124 1 1372 69 15942	(FN)
10343	24-1-2013	1700	M12	CW	Thu	124 1 9701 77 30054	(FN)
10343	24-1-2013	1800	M12	CW	Thu	124 1 ...	(FN)
10343	25-1-2013	1800	M12	CW	Fri	124 1 8922 74 72522 98210 40706 52640 27850 ... 49491 22418 86895 32135 28605 0 0 0	(MPJ)
10343	31-1-2013	1801	M12	CW	Thu	i.p.	(Q-HOL)
10375	17-1-2013	1500	M97	CW	Thu	SD80 0k SN55 (5FG) SD79 0k SN60 (5FG)	(FN)
10442	10-1-2013	0939	M32	CW	Thu	XXX XXX REA4 REA4 10972 EDOK 2306 4828	(JU)
10442	12-1-2013	0713	M32	CW	Sat	XXX XXX REA4 REA4 93518 ANTEFIKSY 5990 2625 GROBOWQIK 4991 4531	(JU)
10442	12-1-2013	0717	M32	CW	Sat	XXX XXX REA4 REA4 61216 FRENOLON 5530 4216	(JU)
10442	12-1-2013	0727	M32	CW	Sat	XXX XXX REA4 REA4 83411 GROT 1553 9281 GUBOeATYJ 4445 2088	(JU)
10442	12-1-2013	0737	M32	CW	Sat	XXX XXX REA4 REA4 55358 PROBIRNYJ 7192 6679	(JU)
10442	12-1-2013	0742	M32	CW	Sat	XXX XXX REA4 REA4 48285 GORSTX 4380 8485	(JU)
10442	12-1-2013	0800	M32	CW	Sat	XXX XXX JUE4 JUE4 53453 OeMOK 7491 5426	(JU)
10442	12-1-2013	0804	M32	CW	Sat	XXX XXX MJUR MJUR 07845 AREWA 2954 7377 STREPTOCID 9297 3241	(JU)
10442	12-1-2013	0808	M32	CW	Sat	XXX XXX REA4 REA4 57846 OTREOeENNYJ 5737 7349	(JU)
10442	12-1-2013	0813	M32	CW	Sat	XXX XXX REA4 REA4 53460 PLANISFERA 3521 0838	(JU)
10442	12-1-2013	0817	M32	CW	Sat	XXX XXX REA4 REA4 45838 ZUBRENIE 5606 8487	(JU)
10442	12-1-2013	0821	M32	CW	Sat	XXX XXX REA4 REA4 22643 GLADINA 7551 6212	(JU)
10442	12-1-2013	0843	M32	CW	Sat	XXX XXX REA4 REA4 68142 ORKO 4043 8168	(JU)
10598	23-1-2013	1850	M12	CW	Wed	938 1 1054 70 84835 12739 77730 55582 48992 65960 ... 77501 67146 000	(MPJ/HFD/FN)
10635	7-1-2013	1310	S06s	USB	Mon	831 957 6 29245 28842 82264 14255 81545 74167 957 6 00000	(Spec)
10635	14-1-2013	1310	S06s	USB	Mon	831 957 6 29245 28842 82264 14255 81545 74167 957 6 00000	(Spec)
10635	21-1-2013	1310	S06s	USB	Mon	831 529 6 35587 40496 16812 85564 15279 40816 529 6 00000	(Spec)
10635	28-1-2013	1310	S06s	USB	Mon	831 529 6 35587 40496 16812 85564 15279 40816 529 6 00000	(AB)
10640	8-1-2013	0120	M89	CW	Tue	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	(JPL)
10640	9-1-2013	0920	M89	CW	Wed	VVV (x3) Q2M DE NYZ (x2) QSA ? K	(JPL)
10640	13-1-2013	0220	M89	CW	Sun	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	(JPL)

Freq.	date	UTC	enigma	mode	day	remarks	contributor
10640	17-1-2013	0319	M89	CW	Thu	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	(JPL)
10640	24-1-2013	0320	M89	CW	Thu	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	(JPL)
10640	31-1-2013	0120	M89	CW	Thu	VVV (x3) Q2M DE NYZ (x2) QSA ? K //6840	(JPL)
10690	12-1-2013	1400	E11a	USB	Sat	985/10 Attention 01059 ... 75077 Out	(Spec)
10690	15-1-2013	1400	E11a	USB	Tue	983/10 Attention 79108 ... 66061 Out	(Spec)
10690	22-1-2013	1400	E11a	USB	Tue	982/10 05802 94726 10568 29348 00090 30699 47499 42147 11406 09874	(MPJ)
10690	29-1-2013	1400	E11a	USB	Tue	982/10 Attention 37644 33385 60918 68259 66072 80547 34318 30897 55639 08948 Attention, rpt msg, out	(AB)
10711	14-1-2013	1640	M12	CW	Mon	546 1 696 49 02362	(FN/HFD)
10711	21-1-2013	1640	M12	CW	Mon	546 1 1622 88 29350	(FN)
10715	7-1-2013	2243	HM01	AM/RDFT	Mon	In progress, header 74421 68646 ?2116 74224 261?5 ?????, not all ending in 1, VERY difficult copy, largely intelligible, abrupt cut 2250	(HS)
10715	10-1-2013	2200	HM01	AM/RDFT	Thu	preamble 88715 17383 72855 81156 21734 72142 (last figures in all groups +1 from day before)	(HS)
10715	11-1-2013	2158	HM01	AM/RDFT	Fri	preamble 88715 17383 72855 81156 21734 72142 (note each group +1 from yesterday).	(HS)
10715	11-1-2013	2200	HM01	AM/RDFT	Fri	????? 88917 17383 72875 ??176 21734	(Dan)
10715	13-1-2013	2201	HM01	AM/RDFT	Sun	17051 17385 16111 81158 21736 72144	(HS)
10715	16-1-2013	2203	HM01	AM/RDFT	Wed	Preamble 17053 17387 16113 21512 36132 64441	(HS)
10715	18-1-2013	2158	HM01	AM/RDFT	Fri	5FG's voice + RDFT	(JBL)
10715	20-1-2013	2200	HM01	AM/RDFT	Sun	64445 66112 65614 16117 18061 36136	(Dan)
10715	23-1-2013	2200	HM01	AM/RDFT	Wed	64448 66115 78701 33753 18064 88472]	(Dan)
10779	8-1-2013	0534	M89	CW	Tue	V WITN (x3) DE GNXX (x2) (Cont'd)	(JPL)
10779	9-1-2013	0911	M89	CW	Wed	V WITN (x3) DE GNXX (x2) (Cont'd)	(JPL)
10779	9-1-2013	0926	M89	CW	Wed	V WITN (x3) DE GNXX (x2) (Cont'd)	(JPL)
10779	9-1-2013	1017	M89	CW	Wed	V WITN (x3) DE GNXX (x2) (Cont'd)	(JPL)
10779	30-1-2013	0304	M89	CW	Wed	V WITN (x3) DE GNXX (x2) (Cont'd)	(JPL)
10779	31-1-2013	0059	M89	CW	Thu	V WITN (x3) DE GNXX (x2) (Cont'd) //8789	(JPL)
10779	31-1-2013	1105	M89	CW	Thu	V WITN (x3) DE GNXX (x2) (Cont'd) //8789	(JPL)
10779	31-1-2013	1116	M89	CW	Thu	V WITN (x3) DE GNXX (x2) (Cont'd)	(JPL)
10800	1-1-2013	0710	E11	USB	Tue	633/00	(AB/Spec)
10800	1-1-2013	1045	E11	USB	Tue	576/00	(Q-HOL)
10800	8-1-2013	0710	E11	USB	Tue	633/00	(Spec)
10800	8-1-2013	1045	E11a	USB	Tue	573/37 Attention 33050 ... 74914 Out	(Spec)
10800	11-1-2013	0710	E11	USB	Fri	633/00	(AB)
10800	15-1-2013	0710	E11a	USB	Tue	631/36 Attention 59061 50135 58247 17193 26348 ...	(Spec)
10800	15-1-2013	1045	E11	USB	Tue	576/00	(Spec/MPJ)
10800	18-1-2013	0710	E11	USB	Fri	633/00	(Spec)
10800	25-1-2013	0710	E11	USB	Fri	633/00	(Spec)
10800	29-1-2013	1045	E11	USB	Tue	576/00	(AB)
10871.7	12-1-2013	1050	MX	CW	Sat	Beacon "D": Russian Navy Sevastopol	(WP3)
10871.7	20-1-2013	1145	MX	CW	Sun	Beacon "D"	(AB)
10871.8	11-1-2013	0959	MX	CW	Fri	Beacon "P"	(AB)
10871.8	12-1-2013	1050	MX	CW	Sat	Beacon "P": Russian Navy Kaliningrad	(WP3)
10871.8	20-1-2013	1145	MX	CW	Sun	Beacon "P"	(AB)
10871.8	26-1-2013	0842	MX	CW	Sat	Beacon "P"	(AB)
10871.9	12-1-2013	1050	MX	CW	Sat	Beacon "S": Russian Navy Severomorsk	(WP3)
10872	11-1-2013	0959	MX	CW	Fri	Beacon "C"	(AB)
10872	12-1-2013	1050	MX	CW	Sat	Beacon "C": Russian Navy Moscow	(WP3)
10872	20-1-2013	1145	MX	CW	Sun	Beacon "C"	(AB)
10872	26-1-2013	0842	MX	CW	Sat	Beacon "C"	(AB)
10872.1	11-1-2013	0959	MX	CW	Fri	Beacon "A"	(AB)
10872.1	12-1-2013	1050	MX	CW	Sat	Beacon "A": Russian Navy Astrachan	(WP3)
10909	16-1-2013	0722	XPA	USB	Wed	ip	(FMB)
10920	10-1-2013	1210	S06s	USB	Thu	425	(HFD)
11079	1-1-2013	1025	M42	Baudot 200/500	Tue	Russian Gov/Intel. 140 blocks; 417 gr.	(FMB)
11079	22-1-2013	1025	M42	Baudot 200/500	Tue	Russian Intel.	(FMB)
11079	23-1-2013	1025	M42	FSK 200/1000	Wed	Russian Intel. 139 blocks; 414 gr.	(FMB)
11123	19-1-2013	0900	E07a	USB	Sat	114 0	(HFD)
11128	21-1-2013	1216	M14	CW	Mon	(ip) t2762(x2)...== 79t 79t 84 84 ttttt	(FMB)
11128	23-1-2013	1200	M14	CW	Wed	215(R4);(qtc rpt 21.1.2013 12:00)	(FMB)
11170	3-1-2013	0800	E17z	USB	Thu	674 258 5 05928 67844 67328 98823 78873 258 5 00000	(Spec)

Freq.	date	UTC	enigma	mode	day	remarks	contributor
11170	10-1-2013	0800	E17z	USB	Thu	674 258 5 05928 67844 67328 98823 78873 258 5 00000	(Spec)
11170	17-1-2013	0800	E17z	USB	Thu	674 289 5 34682 97455 52122 42277 76294 289 5 00000	(Spec)
11170	24-1-2013	0800	E17z	USB	Thu	674 289 5 34682 97455 52122 42277 76294 289 5 00000	(Spec)
11171	17-1-2013	0800	E17z	USB	Thu	674	(FMB)
11435	23-1-2013	1830	M12	CW	Wed	938 1	(HFD)
11468	10-1-2013	0943	M32	CW	Thu	XXX XXX RGT77 RGT77 71078 05616 EDOK 2306 4828	(JU)
11530	7-1-2013	2256	HM01	AM/RDFT	Mon	Header 74421 68646 ?2116 74224 261?5 ...	(HS)
11530	9-1-2013	2300	HM01	AM/RDFT	Wed	56545 52116 74224 55864 26015 74421. Before start at 2258 UTC "5654" and "1" (x 14)	(Dan)
11530	9-1-2013	2305	HM01	AM/RDFT	Wed	Late tune in. Header 56545 52116 74224 55864 26015 74421, repeated at 2329 UTC.	(HS)
11530	9-1-2013	2329	HM01	AM/RDFT	Wed	Header 56545 52116 74224 55864 26015 74421, repeat of 2300 UTC.	(HS)
11530	10-1-2013	2259	HM01	AM/RDFT	Thu	voice started at 2259 with same preamble as 10715.	(HS)
11530	11-1-2013	2259	HM01	AM/RDFT	Fri	preamble 88715 17383 72855 81156 21734 72142. Cut abruptly at 2338.	(HS)
11530	13-1-2013	2258	HM01	AM/RDFT	Sun	17051 17385 16111 81158 21736 72144	(HS/Dan)
11530	14-1-2013	2300	HM01	AM/RDFT	Mon	17052 17386 16112 21511 36131 72145	(Dan)
11530	16-1-2013	2258	HM01	AM/RDFT	Wed	Preamble 17053 17387 16113 21512 36132 64441	(HS)
11530	16-1-2013	2306	HM01	AM/RDFT	Wed	single 5FG's by Spanish speaking YL followed by RDFT data bursts	(JBL/OAR)
11530	18-1-2013	2300	HM01	AM/RDFT	Fri	5FG's voice + RDFT	(JBL)
11530	22-1-2013	2300	HM01	AM/RDFT	Tue	64446 66113 65615 33751 18062 36137	(Dan)
11530	26-1-2013	1700	HM01	AM/RDFT	Sat	DGI	(west1us)
11566	14-1-2013	1620	M12	CW	Mon	546 1 696 49 02362	(FN)
11566	14-1-2013	1620	M12	CW	Mon	546 1	(HFD)
11566	21-1-2013	1620	M12	CW	Mon	546 1 1622 88 29350	(FN)
11635	13-1-2013	2058	HM01	AM/RDFT	Sun	17051 17385 16111 81158 21736 72144, where groups #2, 4, 5, and 6 are yesterday +1, others are new.	(HS)
11635	16-1-2013	2135	HM01	AM/RDFT	Wed	In progress, good signal and audio, preamble 17053 17387 16113 21512 36132 64441 (same as yesterday)	(HS)
11780	4-1-2013	0930	S06s	USB	Fri	516 928 7 52401 63919 92699 14600 74248 48754 65125 928 7 00000	(AB)
11780	18-1-2013	0930	S06s	USB	Fri	516 804 7 11171 64385 82707 06123 22536 88280 84116 804 7 00000	(Spec)
11780	25-1-2013	0930	S06s	USB	Fri	516 804 7 11171 64385 82707 06123 22536 88280 84116 804 7 00000	(Spec)
11830	16-1-2013	0840	S06s	USB	Wed	745 283 6 99228 77544 04816 56557 50316 72237 283 6 00000	(Spec)
11830	23-1-2013	0840	S06s	USB	Wed	745 283 6 99228 77544 04816 56557 50316 72237 283 6 00000	(Spec)
12123	19-1-2013	0920	E07a	USB	Sat	114 0	(HFD)
12152	19-1-2013	1012	M32	CW	Sat	Russian Mil. PRJW DE QA1V QTC 760 28 19 1406 860 = 822 =	(PPA)
12154	16-1-2013	1200	M42	FSK 200/1000	Wed	Russian Intel. 37 blocks	(FMB)
12154	21-1-2013	1200	M42	FSK 200/1000	Mon	Russian Intel. 18; 37 blocks	(FMB)
12154	23-1-2013	1200	M42	FSK 200/1000	Wed	Russian Intel. 21; 36 blocks	(FMB)
12155	10-1-2013	1200	S06s	USB	Thu	425 287 6 = 96111	(HFD)
12162	14-1-2013	1600	M12	CW	Mon	546 1 696 49 02362	(FN)
12162	14-1-2013	1600	M12	CW	Mon	546 1	(HFD)
12162	21-1-2013	1600	M12	CW	Mon	546 1 1622 88 29350	(FN)
12176	23-1-2013	0700	M42	FSK 200/1000	Wed	Russian Intel. 22; 36 blocks	(FMB)
12177	14-1-2013	1303	X06	USB	Mon	?	(FMB)
12177	22-1-2013	0700	M42	FSK 200/1000	Tue	Russian Intel. 21; 46 blocks	(FMB)
12177	24-1-2013	0700	M42	FSK 200/1000	Thu	Russian Intel. 23; 64 blocks	(FMB)
12180	19-1-2013	1000	HM01	AM/RDFT	Sat	64443 17055 65612 16115 21514 36134	(Dan)
12207	19-1-2013	0938	M42	CW / Baudot 50/500	Sat	Russian Gov. NT9P sending 5FG msg to K4MT "QSY 76833 QRX 65884"	(PPA)
12209	16-1-2013	0743	XPA	USB	Wed	ip	(FMB)
12221	19-1-2013	0920	M42	FSK 200/1000	Sat	Russian Intel. 18; 20 blocks	(FMB)
12365	2-1-2013	1000	S06s	USB	Wed	729 410 5 24001 88749 19970 14513 81432 410 5 00000	(Spec)
12365	9-1-2013	1000	S06s	USB	Wed	729 410 5 24001 88749 19970 14513 81432 410 5 00000	(Spec)
12365	16-1-2013	1000	S06s	USB	Wed	729 406 5 47665 94092 48521 63888 92060 406 5 00000	(Spec)
12365	23-1-2013	1000	S06s	USB	Wed	729 406 5 47665 94092 48521 63888 92060 406 5 00000	(Spec)
12464	3-1-2013	0805	M32a	CW	Thu	RFH71: Russian Navy LS Novocherkassk. "rcv de rfh71 qyt4 qsx 10201/11777 k"	(WP3)
12464	3-1-2013	1158	M32a	CW	Thu	RFH71: Russian Navy LS Novocherkassk. "00354 meksamin 4995 6522"	(WP3)
12464	3-1-2013	1158	M32a	CW	Thu	RIR96: Russian Navy. "00354 meksamin 4995 6522"	(WP3)
12464	3-1-2013	1158	M32a	CW	Thu	RCJG: Russian Navy AO Ivan Bubnov. "00354 meksamin 4995 6522"	(WP3)
12464	3-1-2013	1203	M32a	CW	Thu	RCJG: Russian Navy AO Ivan Bubnov. "rcv de rcjg 775 18 3 1600 775 = sml for rjh45 rje73 = 03121 99346 10319 41498 71106 10170 40262"	(WP3)

Freq.	date	UTC	enigma	mode	day	remarks	contributor
						54000 70321 87200 22222 00170 20000 88000 03014 = + rcjg k"	
12464	3-1-2013	1209	M32a	CW	Thu	RIR96: Russian navy. "rcv de rir96 558 16 3 1603 558 = for rje73 rjh45 = 03121 99358 10348 41798 10000 10174 40264 57015 70200 82000 22200 00192 29911 03013 = + rir96 k"	(WP3)
12464	5-1-2013	1210	M32a	CW	Sat	RKO81: Russian Navy AO Lena RUS 1210 CW rcv de rko81 388 20 5 1600 388 = for rjh45 rjd38 rje73 = 05121 99359 70067 41798 11904 10180 40332 52010 70100 81001 22253 00155 20000 399// 88000 80000 05016 = + rko81 k"	(WP3)
12464	8-1-2013	0910	M32a	CW	Tue	Russian Navy. "rcv de rir96 277 16 8 1301 277 = for rje73 rjh45 = 08091 99396 10256 41696 53618 10040 40239 52020 70201 89810 22213 00170 21111 08013 = + rir96 k"	(WP3)
12464	8-1-2013	1213	M32a	CW	Tue	Russian Navy AO Lena. "rcv de rko81 327 20 8 1600 327 = for rjh45 rjd38 rje73 = 08121 99377 10072 41698 62768 10170 40266 54010 70322 86400 22222 00165 20000 399// 88000 80000 08016 = rko81 k"	(WP3)
12464	10-1-2013	1156	M32a	CW	Thu	Russian Navy: "rcv de rbes 788 15 10 1555 788 = sml for rjh45 rje73 = 10121 99358 70166 43598 13205 10170 40220 54000 70200 81120 22232 10011 = + rbes k"	(WP3)
12464	12-1-2013	1205	M32a	CW	Sat	Russian Navy Tug Sliva (SB-921) "rcv de rbes 409 169 12 1553 = sml for rjh45 rje73 rjd38 = 12121 99344 10267 43428 62306 10210 40180 54000 70211 86320 22222 12011 = + rbes k"	(WP3)
12464	13-1-2013	1156	M32a	CW	Sun	RBES: Russian Navy Tug Sliva (SB-921) "rcv de bes 349 16 13 1554 349 = sml for rjh45 rje73 rjd38 = 13121 99343 70217 43698 53204 10170 40220 51020 70211 85110 22222 13011 = + rbes k"	(WP3)
12464	13-1-2013	1209	M32a	CW	Sun	RKO81: Russian Navy AO Lena "rcv de rko81 349 20 14 1600 349 = for rjh45 rjd38 rje73 = 14121 99366 10206 41898 31716 10170 40199 52010 70312 83130 22223 00160 20403 399// 88000 80000 14016 = + rko81 k"	(WP3)
12464	22-1-2013	1202	M32a	CW	Tue	RCJG: Russian Navy AO Ivan Bubnov "rcv de rcjg 704 18 22 1600 704 = sml for rjh45 rje73 = 22121 99358 10348 41597 20714 10160 40130 57020 70210 82210 22200 00160 20406 88000 22014 = + rcjg k"	(WP3)
12464	22-1-2013	1202	M32a	CW	Tue	RIR96: Russian Navy LS Azov (151) "rcv de rir96 776 16 22 1540 776 = for rje73 rjh45 = 22121 99349 10348 416987 11105 10210 40139 54000 70201 81030 22222 00180 29900 22013 = + rir96 k"	(WP3)
12464	22-1-2013	1205	M32a	CW	Tue	RKO81: Russian Navy AO Lena "rcv de rko81 291 20 22 1600 291= sml for rjh45 rjd38 rje73 = 22121 99367 10262 41798 22512 10210 40080 53140 70200 81100 22200 00170 20603 399/// 88000 80000 22016 = + rko81 k"	(WP3)
12464	23-1-2013	0819	M32a	CW	Wed	RDND: Russian Navy "riw de rdnd ok qap k"	(WP3)
12464	23-1-2013	1157	M32a	CW	Wed	RBES: Russian Navy Tug Sliva (SB-921) "rcv de rbes 178 16 23 1553 178= sml for rjh45 rje73 rjd38 = 23121 99359 10348 43697 62508 10230 40180 52030 70211 86310 22211 23011 = + rbes k"	(WP3)
12464	23-1-2013	1202	M32a	CW	Wed	RCJG: Russian Navy AO Ivan Bubnov "rcv de rcjg 525 18 23 1600 525 = sml for rjh45 rje73 = 23121 99358 10348 41498 32712 10170 40172 52020 70210 83200 22200 00160 20302 88000 23014 = + rcjg k"	(WP3)
12464	23-1-2013	1205	M32a	CW	Wed	RKO81: Russian Navy AO Lena "rcv de rko81 332 20 13 1600 332 = sml for rjh45 rjd38 rje73 = 23121 99367 10262 41598 62510 10170 40132 54010 70322 86135 22200 00170 20602 399/// 88000 80000 23016 = + rko81 k"	(WP3)
12464.2	8-1-2013	1129	M32a	CW	Tue	Russian Navy LS Nikolay Filchenkov. "rcv de rgz59 qsa2 qyt ? k qyt no ok qap k"	(WP3)
12518	8-1-2013	1200	M32a	CW	Tue	RCV: Russian Navy Sevastopol tfc to rgz59 after coord. on 12464/19201	(WP3)
12530	7-1-2013	1015	S11a	USB	Mon	475/00	(Spec)
12530	10-1-2013	1015	S11a	USB	Thu	478/30	(AB)
12530	14-1-2013	1015	S11a	USB	Mon	475/00	(Spec)
12530	17-1-2013	1015	S11a	USB	Thu	475/00	(Spec)
12530	21-1-2013	1015	S11a	USB	Mon	475/00	(Spec)
12530	24-1-2013	1015	S11a	USB	Thu	475/00	(Spec)
12530	28-1-2013	1015	S11a	USB	Mon	471/34	(AB)
12570	4-1-2013	0940	S06s	USB	Fri	516 928 7 52401 63919 92699 14600 74248 48754 65125 928 7 00000	(AB)
12570	18-1-2013	0940	S06s	USB	Fri	516 804 7 11171 64385 82707 06123 22536 88280 84116 804 7 00000	(Spec)
12570	25-1-2013	0940	S06s	USB	Fri	516 804 7 11171 64385 82707 06123 22536 88280 84116 804 7 00000	(Spec)
12952	3-1-2013	0900	S06s	USB	Thu	167 238 5 = 78467	(HFD)
12952	3-1-2013	0900	S06s	USB	Thu	167 238 5 78463 72819 84756 01992 77321 238 5 00000	(Spec)
12952	10-1-2013	0900	S06s	USB	Thu	167 238 5 78463 72819 84756 01992 77321 238 5 00000	(Spec/HFD)
12952	17-1-2013	0900	S06s	USB	Thu	167 423 5 73124 72277 76293 37538 21065 423 5 00000	(Spec)
12952	24-1-2013	0900	S06s	USB	Thu	167 423 5 73124 72277 76293 37538 21065 423 5 00000	(Spec)
13369	3-1-2013	1010	M12	CW	Thu	369 000	(FN)

Freq.	date	UTC	enigma	mode	day	remarks	contributor
13369	6-1-2013	1010	M12	CW	Sun	369 000	(FN)
13369	10-1-2013	1010	M12	CW	Thu	369 1 282 107 90683	(FN)
13369	13-1-2013	1010	M12	CW	Sun	369 1 282 107 90683	(FN)
13369	17-1-2013	1010	M12	CW	Thu	369 1 470 99 41880	(FN)
13369	24-1-2013	1010	M12	CW	Thu	369 000	(FN)
13369	27-1-2013	1010	M12	CW	Sun	369 000	(FN)
13390	3-1-2013	0600	E06	AM	Thu	139 258 104 = 78992	(HFD)
13490	22-1-2013	1015	M42	Baudot 200/500	Tue	Russian Gov/Intel.	(FMB)
13490	23-1-2013	1015	M42	FSK 200/1000	Wed	Russian Intel. 139 blocks; 414 gr.	(FMB)
13527.7	11-1-2013	0959	MX	CW	Fri	Beacon "D"	(AB)
13527.7	20-1-2013	1145	MX	CW	Sun	Beacon "D"	(AB)
13527.7	26-1-2013	0842	MX	CW	Sat	Beacon "D"	(AB)
13527.8	11-1-2013	0959	MX	CW	Fri	Beacon "P"	(AB)
13527.8	26-1-2013	0842	MX	CW	Sat	Beacon "P"	(AB)
13528	20-1-2013	1145	MX	CW	Sun	Beacon "C"	(AB)
13528	26-1-2013	0842	MX	CW	Sat	Beacon "C"	(AB)
13528.1	11-1-2013	0959	MX	CW	Fri	Beacon "A"	(AB)
13565	3-1-2013	0910	S06s	USB	Thu	167 238 5 78463 72819 84756 01992 77321 238 5 00000	(Spec/HFD)
13565	10-1-2013	0910	S06s	USB	Thu	167 238 5 78463 72819 84756 01992 77321 238 5 00000	(Spec/HFD)
13565	17-1-2013	0910	S06s	USB	Thu	167 423 5 73124 72277 76293 37538 21065 423 5 00000	(Spec)
13565	24-1-2013	0910	S06s	USB	Thu	167 423 5 73124 72277 76293 37538 21065 423 5 00000	(Spec)
13735	6-1-2013	1437	---		Sun	Vietnamese Siren jammer	(AB)
13911	4-1-2013	1420	M03	CW	Fri	879/00	(HFD)
13945	23-1-2013	1135	M14	CW	Wed	ip 87738 72912== 79t 79t 84 84 ttttt (rpt 21.1.2013 12:00 11128 kHz)	(FMB)
13971	1-1-2013	1024	M32	CW	Tue	TYA1: Russian mil. "PI2W DE TYA1 QSA 0 QSY 40461"	(PPA)
13989.75	15-1-2013	0858	M42	RUS-ARQ 100/1000	Tue	Russian Gov/Intel.	(BCI)
14280	2-1-2013	1010	S06s	USB	Wed	729 410 5 24001 88749 19970 14513 81432 410 5 00000	(Spec)
14280	9-1-2013	1010	S06s	USB	Wed	729 410 5 24001 88749 19970 14513 81432 410 5 00000	(Spec)
14280	16-1-2013	1010	S06s	USB	Wed	729 406 5 47665 94092 48521 63888 92060 406 5 00000	(Spec)
14280	23-1-2013	1010	S06s	USB	Wed	729 406 5 47665 94092 48521 63888 92060 406 5 00000	(Spec)
14410	7-1-2013	1110	E11a	USB	Mon	952/31 = 51983	(HFD)
14410	7-1-2013	1110	E11a	USB	Mon	952/31 Attention 51983 ... 51318 Out	(Spec)
14410	18-1-2013	1110	E11a	USB	Fri	952/35 Attention 57465 ... 89792 Out	(Spec)
14410	21-1-2013	1110	E11a	USB	Mon	954/31 Attention 32809	(Spec)
14410	28-1-2013	1110	E11a	USB	Mon	954/31 Attention 45036 62781 41810 ... 37454 06203 Attention, rpt msg, out	(AB)
14494	1-1-2013	1020	M42	FSK 200/1000	Tue	Russian Intel. 0-msg	(FMB)
14630	11-1-2013	1432	M42	CROWD-36	Fri	Russian diplo. Crypto msgs	(PPA)
14630	13-1-2013	1403	M42	CROWD-36	Sun	Russian diplo. Frequent tone calls and messages	(LG2)
14669	3-1-2013	1030	M12	CW	Thu	369 000	(FN)
14669	6-1-2013	1030	M12	CW	Sun	369 000	(FN)
14669	10-1-2013	1030	M12	CW	Thu	369 1 282 107 90683	(FN)
14669	13-1-2013	1030	M12	CW	Sun	369 1 282 107 90683	(FN)
14669	17-1-2013	1030	M12	CW	Thu	369 1 470 99 41880	(FN)
14669	24-1-2013	1030	M12	CW	Thu	369 000	(FN)
14669	27-1-2013	1030	M12	CW	Sun	369 000	(FN)
14939	19-1-2013	0910	M42	FSK 200/1000	Sat	Russian Intel. 18; 20 blocks	(FMB)
15632	3-1-2013	1155	E11	USB	Thu	713/32 47129 05245 ... 29517 82820	(MPJ)
15632	7-1-2013	1540	E11	USB	Mon	226/38 84975 23435 ... _____ 92528	(MPJ)
15632	9-1-2013	1155	E11	USB	Wed	718/00	(Spec)
15632	13-1-2013	1540	E11	USB	Sun	228/00	(AIK)
15632	14-1-2013	1540	E11	USB	Mon	228/000	(MPJ/Spec)
15632	17-1-2013	1155	E11a	USB	Thu	712/37 Attention 64941 ... 42904 Out	(Spec)
15632	21-1-2013	1540	E11	USB	Mon	228/00	(Spec)
15632	24-1-2013	1155	E11	USB	Thu	718/00	(Spec)
15632	30-1-2013	1155	E11	USB	Wed	718/00	(MPJ)
15810	3-1-2013	0700	E06	AM	Thu	139	(HFD)
15969	10-1-2013	1050	M12	CW	Thu	369 1 282 107 90683	(FN)
15969	13-1-2013	1050	M12	CW	Sun	369 1 282 107 90683	(FN)
15969	17-1-2013	1050	M12	CW	Thu	369 1 470 99 41880	(FN)
16105.5	17-1-2013	0809	M42	CROWD-36	Thu	Russian diplo	(BCI)

Freq.	date	UTC	enigma	mode	day	remarks	contributor
16112	1-1-2013	0745	E11	USB	Tue	335/00	(AB)
16112	1-1-2013	0745	E11	USB	Tue	335/00	(Spec)
16112	8-1-2013	0745	E11	USB	Tue	335/00	(Spec)
16112	17-1-2013	0745	E11	USB	Thu	335/00	(Spec)
16112	24-1-2013	0745	E11	USB	Thu	335/00	(Spec)
16161.7	25-1-2013	1443	EGY	SITOR-A	Fri	MFA Cairo EGY plain text ATU80 messages	(LG2)
16175.85	16-1-2013	0710	M42	RUS-ARQ 100/2500/3CH	Wed	Russian Gov/Intel.	(BCI)
16178.5	25-1-2013	1449	M42	CROWD-36	Fri	Russian diplo	(LG2)
16180	5-1-2013	2130	HM01	AM/RDFT	Sat	in progress	(HS)
16180	10-1-2013	2100	HM01	AM/RDFT	Thu	in progress	(HS)
16180	12-1-2013	2058	HM01	AM/RDFT	Sat	preamble 88716 17384 72856 81157 21735 72143 (again each group +1 from yesterday's)	(HS)
16180	15-1-2013	2100	HM01	AM/RDFT	Tue	64441 17053 17387 16113 21712 36132	(Dan)
16180	15-1-2013	2135	HM01	AM/RDFT	Tue	In progress, cut abruptly at 2154. (15-Jan-2013) (HS)	(HS)
16180	26-1-2013	2140	HM01	AM/RDFT	Sat	i.p. 5FG's + RDFT	(JBL)
16313.7	23-1-2013	1119	EGY	SITOR-A/Codan	Wed	MFA Cairo ended with 5555////1111 JTQG	(LG2)
16320.5	17-1-2013	0810	M42	CROWD-36	Thu	Russian diplo	(BCI)
16330	13-1-2013	1107	M42	CROWD-36	Sun	Russian diplo. Tone call then several messages	(LG2)
16331.7	11-1-2013	0959	MX	CW	Fri	Beacon "D"	(AB)
16331.7	13-1-2013	1103	MX	CW	Sun	Russian Navy Beacon "D" Odessa/Sevastapol	(LG2)
16331.7	20-1-2013	1145	MX	CW	Sun	Beacon "D"	(AB)
16331.7	26-1-2013	0842	MX	CW	Sat	Beacon "D"	(AB)
16332	13-1-2013	1103	MX	CW	Sun	Russian Navy Beacon "C" Moscow	(LG2)
16332.1	11-1-2013	0959	MX	CW	Fri	Beacon "A"	(AB)
16340	13-1-2013	1129	M42	CROWD-36	Sun	Russian diplo.	(LG2)
16340	23-1-2013	1434	EGY	SITOR-A	Wed	MFA Cairo classified ATU80 texts	(LG2)
16346	23-1-2013	0920	M42	FSK 200/1000	Wed	Russian Intel. 22; 27 blocks	(FMB)
16348	1-1-2013	1010	M42	FSK 200/1000	Tue	Russian Intel. 0-msg	(FMB)
16348	23-1-2013	1010	M42	FSK 200/1000	Wed	Russian Intel. 22; 32 blocks	(FMB)
17480	5-1-2013	2200	HM01	AM/RDFT	Sat	Usual three groups ending in 1, then voice and RDFT.	(HS)
17480	10-1-2013	2214	HM01	AM/RDFT	Thu	header 88714 17382 72854 81155 21733 72141 in progress.	(HS)
17480	10-1-2013	2259	HM01	AM/RDFT	Thu	started over at 2259, cut abruptly at 2300.	(HS)
17480	12-1-2013	2200	HM01	AM/RDFT	Sat	preamble 88716 17384 72856 81157 21735 72143	(HS)
17480	15-1-2013	2200	HM01	AM/RDFT	Tue	Voice right on time with preamble 17053 17387 16113 21512 36132 64441 (all but grp #6 yesterday +1).	(HS)
17480	26-1-2013	2158	HM01	AM/RDFT	Sat	5FG's + RDFT	(JBL)
17480	31-1-2013	2230	HM01	AM/RDFT	Thu	53387 66433 72265 36671 33333 87403	(Dan)
17540	5-1-2013	2302	HM01	AM/RDFT	Sat	Carrier started on time, voice was late.	(HS)
17540	10-1-2013	2302	HM01	AM/RDFT	Thu	started up (late) on this frequency with the 17480 still running as per 17480, without going back to start, so it was already in progress at air time.	(HS)
17540	12-1-2013	2258	HM01	AM/RDFT	Sat	preamble 88716 17384 72856 81157 21735 72143	(HS)
17540	26-1-2013	2258	HM01	AM/RDFT	Sat	5FG's + RDFT	(JBL)
17540	31-1-2013	2334	HM01	AM/RDFT	Thu	53387 66433 72265 36671 33333 87403	(Dan)
18197	18-1-2013	1001	X06	USB	Fri	Mazielka. Sequence: 645321	(BCI)
18280	16-1-2013	0754	M42	RUS-ARQ 100/1000	Wed	Russian Gov/Intel.	(BCI)
18320	16-1-2013	0755	M42	RUS-ARQ 100/1000	Wed	Russian Gov/Intel.	(BCI)
19201	23-1-2013	0942	M32a	CW	Wed	Russian Navy. RCV Nawips to RIP90	(LG2)
19201	24-1-2013	1007	M32a	CW	Thu	RCV: Russian Navy Sevastopol sending 5LGs to RJE. Also clg RCIV	(EW)
19313	16-1-2013	1000	M42	FSK 200/1000	Wed	Russian Intel. 0-msg	(FMB)
20047.7	11-1-2013	0959	MX	CW	Fri	Beacon "D"	(AB)
20047.7	20-1-2013	1145	MX	CW	Sun	Beacon "D"	(AB)
20047.7	26-1-2013	0842	MX	CW	Sat	Beacon "D"	(AB)
20047.9	11-1-2013	0959	MX	CW	Fri	Beacon "S"	(AB)
20047.9	26-1-2013	0842	MX	CW	Sat	Beacon "S"	(AB)
20048	11-1-2013	0959	MX	CW	Fri	Beacon "C"	(AB)
20048	20-1-2013	1145	MX	CW	Sun	Beacon "C"	(AB)
21000	9-12-2012		SDN	USB		MFA Khartoum calling embassy Yemen for Pactor 1 traffic, whistling male persons	(IARUMS)
21002.1	9-12-2012		SDN	Pactor 1		MFA Khartoum with embassy Yemen	(IARUMS)

Freq.	date	UTC	enigma	mode	day	remarks	contributor
100/170							
21003.5	18-12-2012	1506	DPRK	DPRK-ARQ 600/600		North Korean embassy Habana, Cuba with diplo traffic	(IARUMS)
21438	16-12-2012	1236	M32a	CW		Russian Navy: RIP90 de RCV	(AnRus)
21825	24-1-2013	1122	X06	USB	Thu	Mazielka. Sequence: 314265	(EW)

CONTRIBUTORS

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AB-HK	Ary Boender via remote rx Hong Kong	JPL-Sib	JPL via remote rx Siberia
AB-SIB	Ary Boender via remote rx Siberia	JU	Jay Updike, W. Europe
AB-USA	Ary Boender via remote rx USA	KC2TTK	KC2TTK, NY, USA
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AnUSA	Anonymous, USA	LP2	Lionel Price
Argonn	Argonn	MAUK	MikeA, UK
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