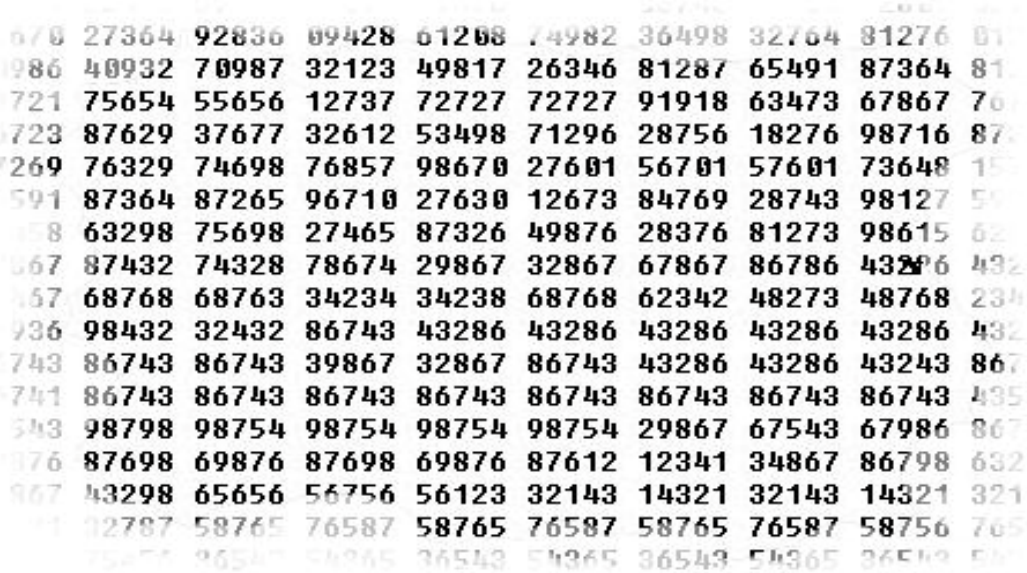


Numbers & Oddities

a.k.a. The Spooks Newsletter

Edition #200, May 2014

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**
HF UNDERGOUND	**http://www.hfunderground.com/board/**

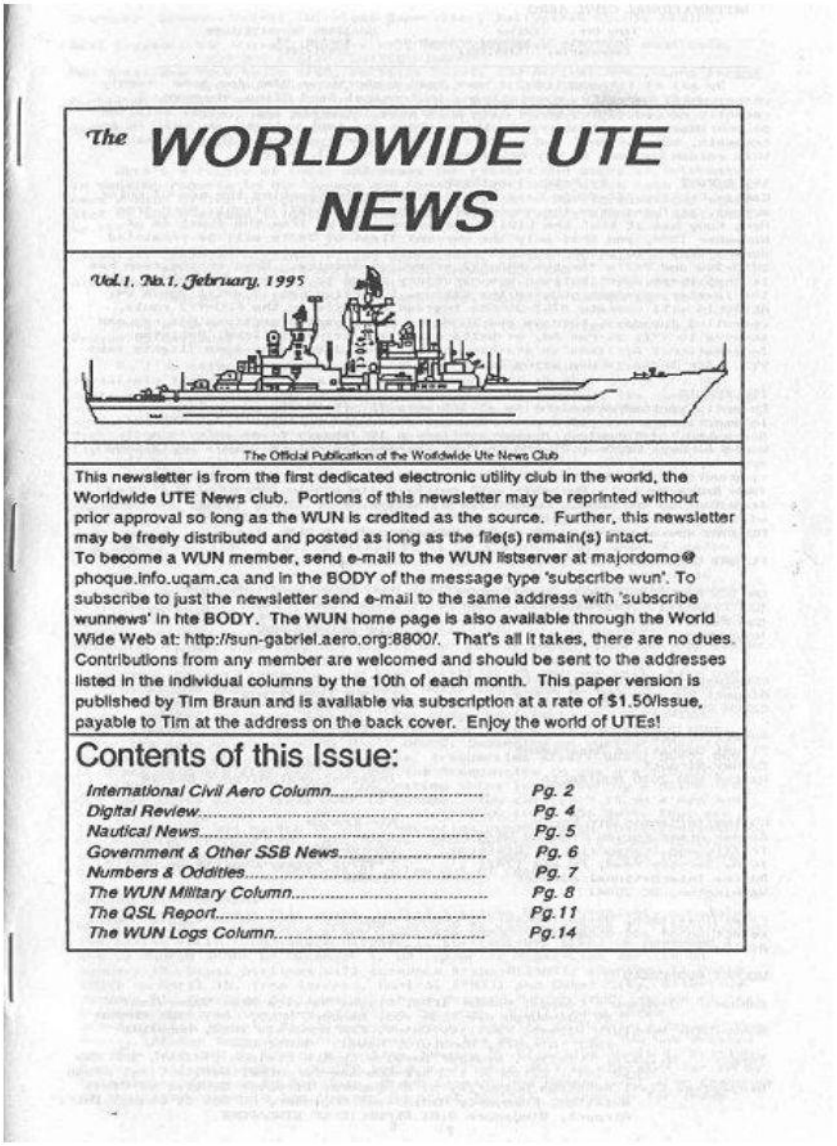
Welcome to the 200th edition of Numbers & Oddities. I never expected that I would write so many newsletters.

N&O started in 1995 as a column in the WUN newsletter, covering numbers stations and other odd signals on HF.

Panasonic DR22

I copied my first numbers station on a DR22 receiver a long time ago and I still love these stations. Unfortunately the majority is long gone, but a number of them is still alive and kicking. As long as there are numbers stations on the air, there is something to listen to and to write about.

Enjoy N&O #200 !!!



The WORLDWIDE UTE NEWS

Vol.1, No.1, February, 1995

The Official Publication of the Worldwide Ute News Club

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Contents of this Issue:

International Civil Aero Column	Pg. 2
Digital Review	Pg. 4
Nautical News	Pg. 5
Government & Other SSB News	Pg. 6
Numbers & Oddities	Pg. 7
The WUN Military Column	Pg. 8
The QSL Report	Pg.11
The WUN Logs Column	Pg.14

Lateron I added unid utility stations, intelligence news, special interest stations, diplomatic stations, etc. It would be nice to cover clandestine stations as well but I simply do not have time for this, but if someone would step forward to edit a clandestine section, I'd be happy to include it.

Thanks for your support and please keep sending your logs, info and recordings.

I think that I have some pretty interesting stuff for you in the ***Jubilee Edition*** of N&O. One of the locations of the Buzzer was discovered; an article about Polish Cold War documents revealing numbers station G02 – Swedish Rhapsody; the unid Armenian net revealed; a LOT of logs, both numbers and Russian military logs -most from our very active French friend Andre- So, enjoy ***N&O #200***.

I received a call for help to further investigate the X06 transmissions. See the Appendix for further information.

Polish intelligence during the Cold War -part 2-

G02 – Swedish Rhapsody operated by Ministerstwo Spraw Wewnętrznych (Ministry of Internal Affairs)

Ministerstwo Spraw Wewnętrznych

Part 1 appeared in N&O 190

The person who sent me part one searched for more links to numbers stations in the old documents and found several very interesting notes. One of the notes is about the piece of music that was used as interval signal of numbers station G02. This indicates that during all these years the nickname "Swedish Rhapsody" wasn't correct as the real name of the music is "Luxemburg Polka" composed by E. Reissdorf. The schedules as mentioned in part 1 were the other way around (summer and winter reversed). Below are the correct schedules.

Please note that the original documents are in Polish and my correspondent says: *"This is really hard to translate because of peculiarities in the bureaucratic language which uses a third person passive form which in this document is mixed with first person reporting. It makes sense in Polish, but it ends up incomprehensible in English if translated faithfully and loses information when I take some freedoms in translation. [My notes are in square brackets] I will reuse the abbreviation "t.w.". I believe it means "tajny wspolpracownik" which means "secret associate" or something like that. It's the term they use for agents as far as I can understand. I have no idea how to translate it with making this document even more incomprehensible."*

---

20 May 1975 Report about training t.w. "Jote" in agent ciphers.

1. I started the training in agency cipher "K-OS-2" in July 1974. I taught t.w. all elements relevant to this type of cipher. After mastering the principles of ciphering, from August 1974 until now there is systematic ciphered correspondence with him through radio /one message per week/, from t.w. cryptograms are delivered using operative means. In a few meetings with him I talked about issues with ciphering and behavior while ciphering in terms of cipher safety, maintaining conspiracy while ciphering, I established a safety signal in case of the cipher was captured by "KW" [I suspect "KW" means "kontrwywiad" – counter intelligence]. Until now t.w. has deciphered and ciphered a few tens [Polish term "kilkadziesiat" which is like "a few dozen", except base 10, not 12] cryptograms. He has mastered general principles fast and didn't have problems ciphering and deciphering during practical activities. Based on activities until now I judge that t.w. "Jote" has mastered this kind of cipher and can use it alone [or maybe "independently"/"without supervision"?] in practical work in the field. He's intelligent, energetic and meticulous.

2. T.w. will be sending cryptograms to us using letters with secret writing. Letters sent on an even day will be containing secret writing with cipher.

3. [Some references to documents and something else, name of the officer, etc.]

Next document

---

30 May 1975
AGREEMENT About one-way radio communication in the direction CENTRAL - AGENT
For Correspondent Nr. 10577 [number handwritten], Codename "Jote" [handwritten].

1. General principles

1.1 In this channel [?] communication will be maintained over radio /A3/ in German.

1.2 The given radio information will enable transmitting messages from Central to Correspondent in the region of Western Europe, in a radius of ..... km from Central. [... looks like other fields that are hand-written, but this one is not filled in].

2. Transmission procedure

2.1 Signal identifying Central
The signal that identifies Central is a melody of **Luxembourg Polka from a music box**. The signal is emitted for 6 minutes for the

purpose of tuning.

2.2 Hailing
After the tuning signal proceeds reading of hailing numbers for correspondents who can be between 1 and 3 at a time. The hailing numbers are five digits long and change for every message. Hailing looks like this: Achtung 11111, 22222, 33333 - where groups: 11111, 22222, 33333 are hailing numbers for correspondents. Hailing numbers are decided by the cipher section. Hailing is repeated three times.

2.3 Reading of text
After hailing follows the reading of the text. Before the text the hailing number is repeated twice, but only the one for whom the message is intended. For example: Achtung 11111 11111 Achtung.

Messages are read in order of hailing. Each 5 digit group is read twice and each digit is read separately. At the end of the message the word "ende" is sent which indicates the end of the message.

2.4 Message length
Messages have a static length - 100 or 50 groups. The number of relevant groups the correspondent can know from the hailing number according to previous communication with the cipher section. If the correspondent is sent a message with more than 100 groups, the message will be divided and sent under the same hailing number.
The maximum number of groups cannot be more than 250. In case of transmitting a message longer than 100 groups, the case officer must be able to communicate with other workers using the same séance.

3. Radio data [handwritten]

Day of week	Hour	Frequency kHz Summer	Frequency kHz Winter	Schedules
Wednesday	00:00	8194	6507	
	03:00	6507	5733	Summer: 1 April – 31 August
	18:00	11525	8194	
Thursday	00:00	8194	6507	Winter: 1 September – 31 March
	03:00	6507	5733	
	17:00	11525	8194	

[11525 could also be 14525, the hand writing and document quality sucks, the first one looks like 14, the second one looks like 11, judging from the first document I sent you, it's probably 11, but maybe I misread that one too]

4. Operative condition for reception

4.1 The Correspondent taught the method for determining his variable hailing number.

4.2 The transmissions should be received on a transistor receiver of high quality that has:
A) correct frequency ranges
B} battery power
C} "fine tune" for exact tuning
D} ability to receive into headphones with loudspeaker turned off

Transmissions should be received using the built in antenna of the receiver using battery power and the grid power disconnected. Reception should be done in a place secured against intrusion from strangers.

4.3 It is forbidden:
A} reception using receivers on grid power
B} reception using loudspeakers
C} reception using external atennas
D} reception in a car or in a public place like hotels, train stations, parks, open spaces, etc.
E| it is not recommended to record the transmissions on a tape recorder due to the difficulty of fast erasing or destruction of the tape.

5. Organizational provisions

5.1 Ciphered messages should be sent to Section IX at the latest 24 hours before the first séance.

5.2 Section II is obligated to inform Section IX about the audibility and quality of radio communication in this channel once per three months.

[signatures]

VOICE STATIONS

E07/ E07a

12177/13477 kHz, 17-05, 0800/0820 UTC
148 1 38986 270 45
44397 93806 36003 18460 78494 38114 13620 17837 44751 35079
74768 87168 82517 34675 14630 31247 94426 13642 41244 04456
26921 26834 66395 65335 64412 63142 13819 62749 07785 92468
44854 42047 62663 08865 89042 20247 24150 51675 93282 07358
86393 32630 62914 77094 91573
000 000

14812 kHz, 21-05, 1900 UTC UTC
845 41 41 62 62
04679 10914 16734 03084 36093 92173 39517 82497 17152 93322
77093 43172 13345 59214 98497 26871 58331 59254 12338 03753
83759 78459 27260 18012 93393 77571 94914 79313 57380 24787
96910 22593 70150 99467 33027 64748 98774 17470 49267 71029
32221 79040 59578 28770 43208 54283 78435 14443 36890 56001
06822 70303 02780 94723 79951 96117 22691 40591 73480 13049
50466 29553
000 000

13412/11512 kHz, 26-05, 1920/1940 UTC
845 436 75 436 85
50838 35505 86718 84692 22273 74014 94559 71758 65233 89006
33732 87291 55690 47265 12721 47153 60716 71693 06897 63301
52778 18148 89607 12073 36488 95510 54880 05601 49099 12964
69081 31762 31551 19462 37010 54413 68232 13099 59057 02676
86661 27814 87888 99010 19169 59627 57803 56040 80152 54392
88665 15601 97342 99547 56109 30137 33632 35119 51430 28511
20350 45665 06609 10685 43104 47974 97697 41316 28463 40566
28329 57217 10860 49439 10736
000 000

13363/11512 kHz, 28-05, 1840/1940 UTC
731 436 75 436 75
50838 35505 86718 84692 22273 74014 94559 71758 65233 89006
33732 87291 55690 47265 12721 47153 60716 71693 06897 63301
52778 18148 89607 12073 36488 95510 54880 05601 49099 12964
69081 31762 31551 19462 37010 54413 68232 13099 59057 02676
86661 27814 87888 99010 19169 59627 57803 56040 80152 54392
88665 15601 97342 99547 56109 30137 33632 35119 51430 28511
20350 45665 06609 10685 43104 47974 97697 41316 28463 40566
28329 57217 10860 49439 10736
000 000

E11/ E11a

10487 kHz, 09-05, 1710 UTC
953/21 Attention
13203 30524 06760 09482 86498 94754 00154 04602 81789 27933
72468 46219 34819 25781 06094 50305 13626 80795 70189 77203
01627
Attention, rpt msg, out

Interrupted by a pirate station who repeated several numbers.

8530 kHz, 09-05, 2000 UTC
576/32 Attention
02841 59553 88146 08465 74752 67226 01889 57630 42683 15802
10309 20942 10037 01073 94578 47506 16817 98176 24961 84912
46928 51288 80959 83713 98277 84347 67881 04434 50543 28684
87421 34937
Attention, rpt msg, out

13722 kHz, 13-05, 1400 UTC
981/10 Attention
68396 98481 64349 99771 24692 42894 75193 84011 80165 32122
Attention, rpt msg, out

S06

16735 kHz, 06-05, 0600 UTC
438 960 5
16014 42676 55730 44736 95879
960 5 00000

11742/12355 kHz, 09-05, 0600/0610 UTC
934 206 5
56947 34917 65103 59294 51162
206 5 00000

7845/9125 kHz, 09-05, 0600/0610 UTC
196 407 5
33796 13577 74525 46647 69302
407 5 00000

10290/9655 kHz, 09-05, 0930/0940 UTC
516 420 7
96320 36793 53038 76342 15009 34140 87386
420 7 00000

12220 kHz, 14-05, 1645 UTC, S06c: 11022

7744 kHz, 20-05, 1510 UTC, S06s
537 401 6
18273 64736 09837 22890 78336 28289
401 6 00000

7845/9125 kHz, 23-05, 0600/0610 UTC, S06s
196 832 5
46062 68672 97478 39685 30485
832 5 00000

11742/12355 kHz, 23-05, 0600/0610 UTC
934 201 5
33796 13577 74526 46647 79302
201 5 00000

9655 kHz, 23-0, 0945 UTC
516 203 7
88146 57856 98835 46186 16945 80744 86300
203 7 00000

6766 kHz, 27-05, 1500 UTC. Should be on 6666 kHz
537 401 6
18273 64736 09837 22890 78336 28289
401 6 00000

S11a

4870 kHz, 07-05, 1955 UTC
370/35 vnimanie
96510 34765 75266 25073 68625 69739 72961 70650 86794 14985
26949 03731 23553 98755 78341 50778 08289 37829 48788 59280
15626 33079 03893 16821 00815 38117 43809 18259 23765 20975
90763 60432 94168 21016 22185
vnimanie, rpt msg, konec

S25

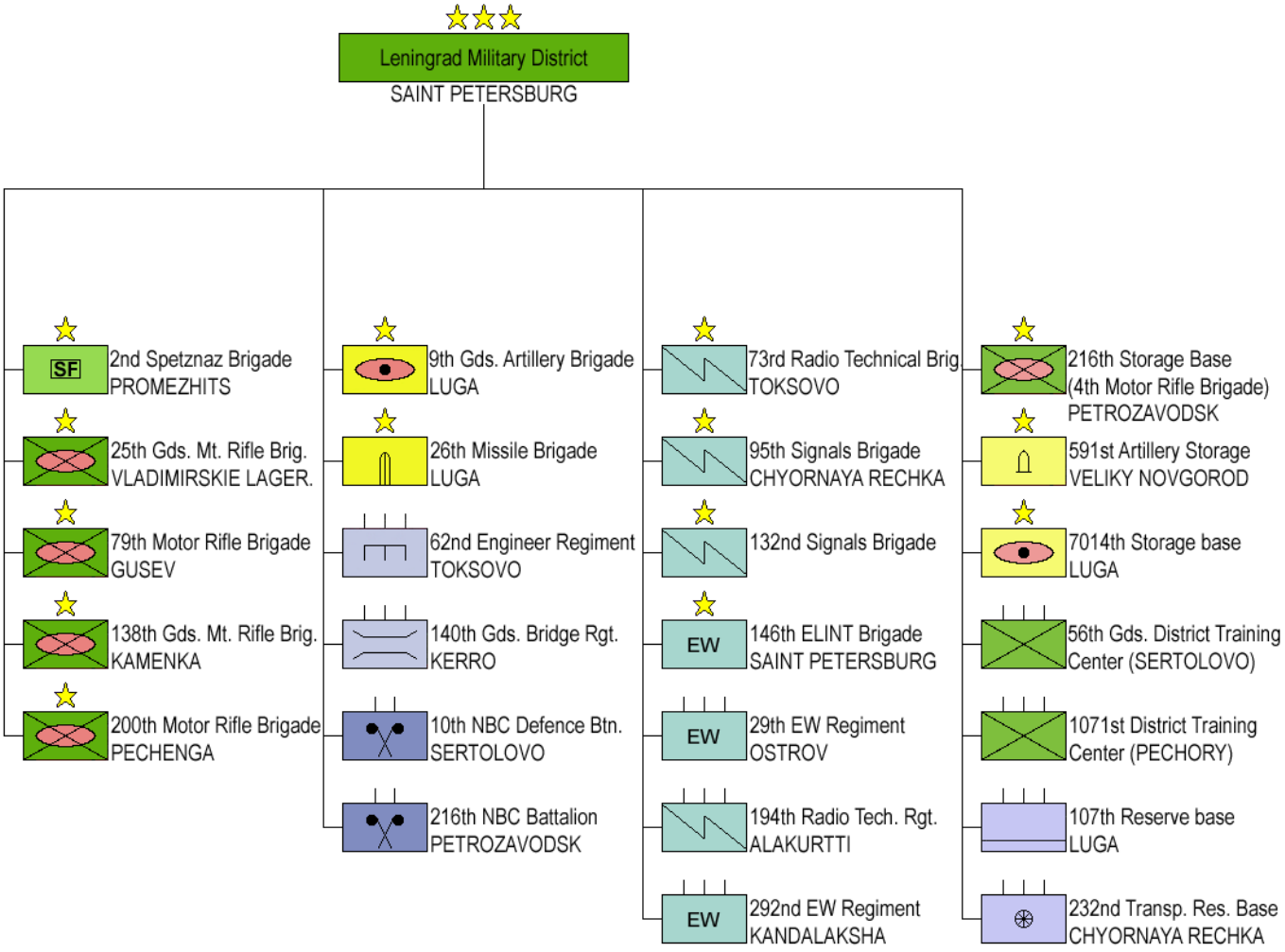
13415 kHz, 29-05, 0704 UTC: 049 65912 00000 00000
13915 kHz, 29-05, 1453 UTC: 049 65562 049 64202
11520 kHz, 29-05, 1500 UTC: 049 67292 049 51612 00000 00000

S28 - The Buzzer

Mode: USB
Frequency: 4625 kHz

04-05, 1131 UTC	MDZhB 20 368 PETALIT 37 97 01 10 KANDYK 14 79 61 41 Priyom
06-05, 0705 UTC	MDZhB 68 537 FAZULINA 61 71 64 14
07-05, 0903 UTC	MDZhB 56 823 TARNYJ 69 43 31 37
07-05, 0905 UTC	MDZhB 33 751 FAYaLIT 98 68 76 81
07-05, 0906 UTC	MDZhB 80 034 CETRATIJ 67 35 36 32
18-05, 1240 UTC	MDZhB 85 745 KALKAN 95 43 63 15
18-05, 1341 UTC	MDZhB 49 744 ChAPELNIK 10 96 64 83

One of our correspondents drove to a Russian military facility near Kerro, Leningrad oblast and found that the Buzzer's signal became stronger and stronger when he approached the site. It looks like one of the Buzzer's transmitter sites has been finally confirmed. The site is in the Kerro Massiv, Leningradkaya oblast, 64.18.40 N / 30.16.43 E and is the transmitter site of the 60th communication hub (Vulcan). Thanks for your efforts!!!!!!



Source: Noclador

This is the antenna field PDRTS 60 CM of the 60th communication hub (Vulcan) in Kerro Massiv, Leningradkaya oblast, 60°18'40.1"N 30°16'40.5"E https://goo.gl/maps/kAYsE Constructed in 1991. Renovated in 2000-2001.

Number of transmission antennas: 30. Including: 19 VGDSh units, 4 VGDShP units, 6 RGD units, 1 V-shaped antenna. All 23 horizontal dipoles (VGDSh), 4 (of 6) rhombic antennas (RGD) and 1 V-shaped antenna are suitable for 4625 kHz. The directional RGD antennas are beamed to Murmansk, Arkhangelsk and Moscow (2 antennas to each direction).

The gate and in the background masts and VGDSh antenna’s

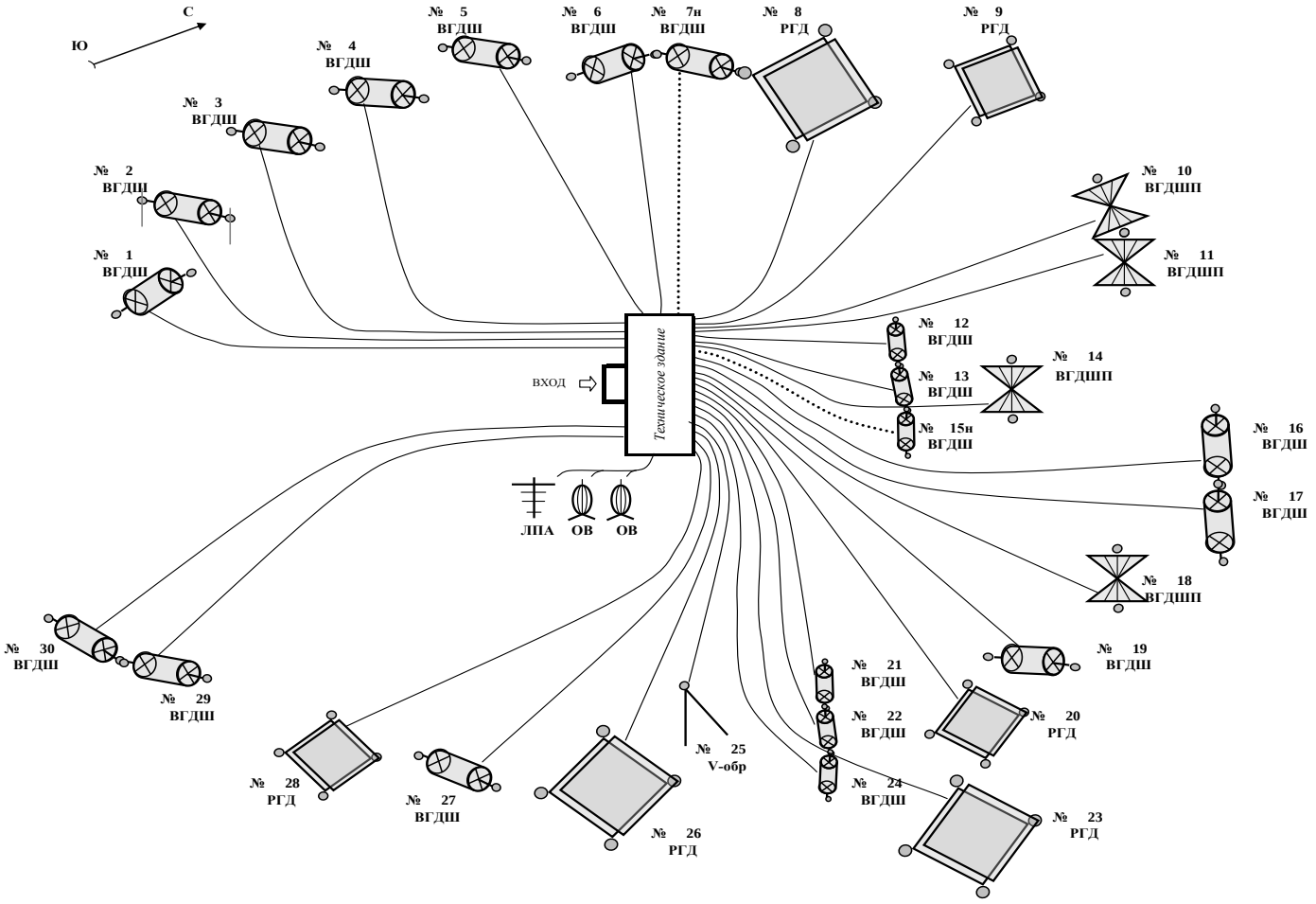
Gate and VGDSh antenna’s

VGDSh antenna’s

VGDSh antenna’s

The following comes from a document about the renovation of the site. It gives an overview of the antennas.

Схема
размещения антенных сооружений ПДРЦ 60 УС



Basic parameters of the transmit antennas are presented in the table below:

Phone Antenna	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
Type AFUE	VGDSH 24 30	VGDSH 16 20	VGDSH 20 20	VGDSH 16 25	VGDSH 16 25	VGDSH 16 25	VGDSH 16 26	RGD 57 30	RGD 40 30	VGDSHP 63 15
Operating Freq. Range	2-7,8 MHz	2,9-11,7 MHz	2,3-9,8 MHz	2,9-11,7 MHz	2,9-11,7MHz	2,9-11,7 MHz	2,9-11,7 MHz	2,7-6,6 MHz	6,4-15,8 MHz	1,7-20 MHz
Azimuth	135 ^{0} / 31 ^{0}	7 ^{0} / 187 ^{0}	7 ^{0} / 187 ^{0}	15 ^{0} / 195 ^{0}	0 ^{0} / 180 ^{0}	100 ^{0} / 280	80 ^{0} / 260 ^{0}	7 ^{0} /	7 ^{0} /	43 ^{0} / 223 ^{0}
Phone Antenna	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**
Type AFUE	VGDSHP 63 15	VGDSH 16 24	VGDSH 24 25	VGDSHP 16 20	VGDSH 24 25	VGDSH 16 24	VGDSH 16 20	VGDSHP 24 25	VGDSH 24 25	RGD 32 18
Operating Freq. Range	7,7-20 MHz	2,9-11,7 MHz	2-7,8 MHz	3-7,8 MHz	2-7,8 MHz	2,9-11,7 MHz	3-7,8 MHz	2-7,8 MHz	2-7,8 MHz	2,7-6,6 MHz
Azimuth	135 ^{0} / 315 ^{0}	43 ^{0} / 223 ^{0}	43 ^{0} / 223 ^{0}	43 ^{0} / 223 ^{0}	7 ^{0} / 187 ^{0}	50 ^{0} / 230 ^{0}	135 ^{0} / 315 ^{0}	135 ^{0} / 315 ^{0}	43 ^{0} / 223 ^{0}	135 ^{0} /
Phone Antenna	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**
Type AFUE	VGDSH 16 24	VGDSH 16 20	RGD 32 18	VGDSH 24 25	V-arr.	RGD 57 30	VGDSH 24 25	RGD 32 18	VGDSH 24 25	VGDSH 24 25
Operating Freq. Range	2,9-11,7 MHz	2,9-11,7 MHz	2,7-6,6 MHz	2-7,8 MHz	2-24 MHz	2,7-6,6 MHz	2-7,8 MHz	6,4-15,8 MHz	2-7,8 MHz	2-7,8 MHz
Azimuth	70 ^{0} / 250 ^{0}	90 ^{0} / 270 ^{0}	135 ^{0} /	135 ^{0} / 315 ^{0}	135 ^{0} /	43 ^{0} /	135 ^{0} / 315 ^{0}	43 ^{0} /	135 ^{0} / 315 ^{0}	43 ^{0} / 223 ^{0}

S30 - The Pip

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

Avare forwarded an old log from Argon. He copied S30 with a somewhat unusual message format.
3756 kHz, 11-01, 1429 UTC
8S1Shch 27 116 4819 3278 0506 3283 7023 3342 6051 4507 5659 7131 4394 7639 3928 3580 8036 8109 8401 1117

5448 kHz, 13-05, 1625 UTC
8S1Shch prognoz pogody na reke Kalaus Stavropol'skogo kraya 14-15 maya ozhidayetsya pod'yom urovnya vody do neblagopriyatnykh otmetok. Priyom
8S1Shch forecast for the river Kalaus Stavropol Kray May 14-15 flood the water level is expected to an unfavorable level. Priyom

---

V07

13582/12182 kHz, 11-05, 0500/0520 UTC 511 511 511 000 (x5)

V13 - New Star Broadcasting Station

星星廣播電台 Xīngxīng guǎngbò diàntái

Frequencies: 7654, 7688, 8300, 9276, 9522, 9725, 10182, 10522, 11430, 13750, 15388 kHz

New schedules, per 1 May 2014

13750 kHz	0200-0230 kHz	New Star 1
13750 kHz	0300-0330 kHz	New Star 1
8300 kHz	0500-0530 kHz	New Star 3
8300 kHz	0600-0630 kHz	New Star 3
15388 kHz	0700-0730 kHz	New Star 4
15388 kHz	0800-0830 kHz	New Star 4
8300 kHz	1200-1230 kHz	New Star 4
8300 kHz	1300-1330 kHz	New Star 4

Note: not all the skeds are always on the air

VC01 - Chinese Robot
Chinese Air Defense

Modes: USB and LSB

The station changes its frequencies frequently. Known frequencies:
3036, 3749, 3837, 4075, 4165, 4175, 4180, 4258, 4343, 4410, 4422, 4427, 4480, 4530, 4580, 4726.5, 5114, 5195, 5232, 5288, 5303, 5328, 5330, 5343, 5393, 5592, 5700, 5742, 5799, 5802, 5820, 5832, 5892, 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, 8779, 9000, 9129, 9169, 9192, 9290, 9340, 10508, 17392 kHz.

VC03
Chinese Air Defense network

One of the unid 3-figure MIL-STD-188-141A (ALE) nets is almost certain a Chinese Air Defense net, familiy of semi-numbers stations VC01 (Chinese Robot) and VC03. I copied on 20-5 ALE idents 131 clg 136 and 130 clg 125. Both were followed by a voice transmission being ..... VC03 !! Now, isn't that nice? ☺

9219 kHz, 19-05, 1715 UTC, MIL-STD-188-141A/USB	130 clg 134
9219 kHz, 20-05, 1740 UTC, MIL-STD-188-141A/USB	131 clg 136 followed by a VC03 transmission
9219 kHz, 20-05, 1745 UTC, MIL-STD-188-141A/USB	130 clg 125 followed by a VC03 transmission
9219 kHz, 21-05, 1742 UTC, USB	VC03 transmission in progress
9219 kHz, 22-05, 1633 UTC, MIL-STD-188-141A/USB	130 clg 310
9219 kHz, 22-05, 1752 UTC, MIL-STD-188-141A/USB	131 clg 135

Part of the contents of the transmission on 20-05 at 1740 UTC:
728 4791111 3833
8181
12425 4520 402 33 036 26 238
42 8427183 42 8427183
42 454
9730 78431111 73 38
973 0341111 973

There is still a lot of work to do before we have an overview of this vast net.

MORSE STATIONS

MX
Russian Military beacons

Current cluster frequencies:
3594, 4558, 5154, 7039, 8495, 10872, 13528, 16332, 20048 kHz

Other frequencies:
L 6917.5, 8497.8 kHz
V 3658, 4150, 6809, 6928, 7027.5 kHz
R 4325.9, 5465,96 kHz
W 5835, 8029, 8895 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

M01

4906 kHz, 01-05, 2002 UTC
025 025 025 (R) 143 143 30 30 = =
85387 45640 53249 75340 22079 43808 36565 23662 39644 18812
56814 07159 74355 60837 49340 39471 01114 70861 57198 52513
84252 65739 34857 68895 82445 48632 04113 73934 91933 01195
= = 143 143 30 30 000

M12

11435/10598 kHz, 19-05, 1600/1620 UTC, logged by Danix
938 1 2361 106
72366 66107 25833 89195 81242 53567 04908 72475 75387 53989
60842 51249 64189 36793 06755 86179 59143 94376 23021 40781
01879 71895 30698 94549 39196 54244 18506 77331 34267 75290
63366 10499 57628 77419 81708 36704 71996 40932 62536 17363
83607 72836 39495 29185 73369 46209 25381 47432 77685 04924
55595 02780 04995 23883 70296 11975 74476 07791 74466 05027
43877 68993 33448 79181 42242 03001 93850 97206 17952 26913
16260 53849 71063 93882 06266 50993 49121 23274 37028 81009
96492 87774 63887 52057 75379 58425 25765 15361 13823 75892
82034 98703 00315 49698 57220 00147 26412 82522 14499 51718
40148 23318 19092 76301 01463 56856
000 000

The group #95 "57220" was keyed as "57 220". No recording of that, unfortunately.

9176/7931/6904 kHz.19-05, 1700/1720/1740 UTC, copied by Danix
257 1 2635 102
50224 46123 23876 13584 27265 00655 93913 89362 82021 41912
12601 25974 67291 66417 38924 33105 10541 68533 11462 55576
87544 68898 70469 13726 55440 23046 84502 18654 97470 32027
62108 99086 33461 39448 48199 47538 68356 89052 51494 96422
21581 24139 93991 43338 09988 08114 78298 92274 10073 32917
61564 96581 86960 19998 56316 27050 24986 84031 17248 60337
35271 76268 43550 01970 14628 24939 78621 93901 83522 58101
27723 27082 90323 98147 63106 80213 12875 07491 92649 32452
91632 04166 10680 46140 23567 14925 14549 35059 76076 96641
71642 98140 69786 65236 59163 94222 55608 37540 52237 48968
64604 92071
000 0000

Danix noticed that two groups also had breaks in them. The recording can be found on
http://priyom.org/media/91494/m12-9176cw-20140519-1700z-msg-bydanix.ogg
The groups can be heard at 4:10 and 7:19. The same problems also occurred during the other two transmissions.
Recordings:
http://priyom.org/media/91507/m12-7931cw-20140519-1720z-msg-bydanix.ogg
http://priyom.org/media/91510/m12-6904cw-20140519-1740z-msg-bydanix.ogg
The malfunctions are In the first recording at 4:04 and 7:44 and in the second, at 1:56

10343/9264/8116 kHz, 20-05, 1830/1850/1910 UTC
124 124 124 1 1502 55
03227 15145 90484 20874 23318 29987 97031 49378 93331 66205
80862 05421 67082 75763 81986 20600 83572 50345 73392 61728
44563 96944 39057 69626 12434 84694 07403 00336 43354 00992
61288 58269 18099 63381 37869 45735 42166 95191 58632 97830
25179 69924 76346 20248 77423 96481 53318 07255 69805 46737
83053 63339 38644 91291 64038
000 0000

10343/9264/8116 kHz, 22-05, 1700/1720/1740 UTC, M12a
124 124 124 2 4582 132 4582 132
67540 37492 53424 80963 90901 89239 17467 73571 45823 31664
23556 60616 68394 76242 12492 68469 22291 63074 51530 38384
97502 29678 39203 69595 82152 61616 66099 35443 63948 96450
02469 37797 70229 54464 86113 29125 18936 40268 74563 54291
96115 66016 27983 34284 08953 73857 67463 46831 64825 83952
68536 94787 22561 76178 96447 83645 38312 18172 53511 70352
50157 47190 39461 38177 74593 86854 27364 21853 42549 00526
04988 78553 19848 02425 90675 14166 10669 80038 34930 90346
63259 86148 90371 06202 55323 03421 52459 15320 13227 82729
66864 98228 98454 44884 24264 51135 23972 83861 88372 02997
68179 01707 93638 58834 93211 16985 37734 56320 45647 12233
21198 57835 03282 32259 19251 50765 56164 60452 59221 67322
46417 89216 30353 00637 70336 19493 59017 79297 18057 87557
19241 81259

124 124 124 2 8248 112 8248 112
94213 70216 92924 60176 47475 27125 13402 95762 43139 29331
46471 91336 81928 57585 08192 42329 18384 93137 36506 84574
84135 33687 41138 45773 67425 58928 40321 20543 01440 44317
05871 93235 72491 98931 40934 87984 30821 41677 78332 22557
33268 81451 50770 30840 32090 52374 58959 60988 88255 79487
30658 14514 64894 80629 80209 98014 25837 03751 99074 77562
31699 53974 13399 67903 33178 24716 89355 65880 20434 59742
19117 14290 72520 89747 78805 75720 97578 50913 44897 98977
30304 46644 17550 10452 07059 27161 43339 16296 40225 73142
93284 44743 67216 94852 03144 41087 59932 58329 61866 00942
62459 24996 91831 71909 86339 82747 08980 13532 73360 53810
03679 52901
000 000

10343 kHz, 22-05, 1800 UTC, M12
124 124 124 1 6990 113 6990 113
35393 85782 07777 40658 67021 55987 32800 29680 06740 43633
01662 69752 02105 71151 52054 97721 51690 25596 97685 61250
09590 11794 17263 22375 93413 57663 31943 01103 86505 46494
56909 31565 17803 84105 04810 43079 05991 922 36 36605 19218
80582 14602 56827 90923 96785 91237 26090 09321 70273 47810
19827 85380 33103 ... etc

The group #38 "92236" had a break of significant length this time, as it can be heard here:
http://priyom.org/media/99252/m12break.ogg

M14

7485 kHz, 02-05, 1700 UTC 382 382 382 00000

M21 + variants
Russian Air Defence Forces
Войска ПВО Voyska PVO

7249 kHz, 22-05, 0457 UTC =990859???? =990900???? =45900159014??? =4590901???

M89
Chinese military

Stations and strings:

V 7NPE 7NPE 7NPE DE QV5B QV5B
V 8CPZ 8CPZ 8CPZ DE XW6W XW6W
V 8DKB 8DKB 8DKB DE ODY8 ODY8
V BNGC BNGC BNGC DE XSV85 XSV85
V BRH0 BRH0 BRH0 DE 8NGG 8NGG
V CQ CQ CQ DE DP91 DP91
V DKG6 DKG6 DKG6 DE 3A7D 3A7D
V DP9J DP9J DP9J DE CQ CQ
V EI0B EI0B EI0B DE JHG2 JHG2
V GKLO GKLO GKLO DE TYUI TYUI
V H2FL H2FL H2FL DE DRV8 DRV8
V JKDJ JKDJ JKDJ DE SLBC SLBC
V MW3D MW3D MW3D DE 2SLC 2SLC
V Q5U8 Q5U8 Q5U8 DE 8QPP 8QPP
V QHV8 QHV8 QHV8 de 8QPP 8QPP
V RA5J RA5J RA5) DE BP2S BP2S
V RXP7 RXP7 RXP7 DE CZT2 CZT2
V S2LZ S2LZ S2LZ DE YBA6YBA6
V SR3H SR3H SR3H DE FGH8 FGH8
V SXL6 SXL6 SXL6 de 9QFZ 9QFZ
V TKLO TKLO THLO DE TYUI TYUI
V VTX7 VTX7 VTX7 DE TZ7B TZ7B
V WZG6 WZG6 WZG6 DE 4VTG 4VTG
V YUQW YUQW YUOQ DE ASDF ASDF
V ZRM7 ZRM7 ZRM7 DE LCM0 LCM0
VVV Q2M Q2M Q2M DE NYZ NYZ
V 6TRW 6TRW 6TRW DE J9NS J9NS
V 8PEX 8PEX 8PEX DE TI5F TI5F
V TY9D TY9D TY9D DE EOX2 EPX2
V PGG9 PGG9 PGG9 DE MI6Y MI6Y

DK02 DE DQ4K
0HSZ DE J70S
49RX DE DMR5K
R-4SZ DE F2SQ
05SZ DE B5PW
0HSZ DE J3UU
GPH3 DE DMR5
0SHZ DE CH2V
9JMX
0JMY DE DMR5
0SHZ DE GGVR
B9N3 DE D...5
DNT2 DE DMR5
0HSZ DE B1PR
SJV4 DE DMR5
0HSZ DE DLV4
J70U DE DMR5
0M0W DE DJ46
XFL9 DE E9WH
EWJ. DE E9WH
8XNJ DE YLE9
XV6M DE YLE9
PRDG DE 2MVZ
PRDG DE H24M
PRLDG DE AQLS
MX2Z DE PRDG
JWDO DE MX2L
FY85 FY85 DE CITJ CITJ
8KN4 8KN4 DE CITJ CITJ
G8WF DE GRBW

DJ1F DE GRBW
8XNY DE YLE9
RUV9 DE YLE9
U5IK DE YLE9
2ZSB DE YLE9
XV6M DE YLE9
ARV9 DE YLE9

Messages:

5360 kHz, 02-5, 1644 UTC

75TA 6D3T A7N6 UAA3 3565 7NT5 N46N (Cont'd)
= U473 N33U AA54 5AU7 6656 N7AT U77A 57U7 (Cont'd)
III = D.N3 5576 AA5D (Cont'd)
III = AUU3 T76D 63DT (Cont'd) (Now sending 100 groups in 3 minutes!)
III = 4T53 AR = 4T4. 535T TAU 56ND (Cont'd)

6666 kHz, 02-05, 0229 UTC

TU4U 6645 (Cont'd)
III A4T4 5TTAQ A647 TT37 T576 3A63 74T5 (Cont'd)
AR = K K K K

8110 kHz, 02-05, 0226 UTC

R U 2130 COMM 0MOW K
R R HR UTEEE R HR KP U K
VV 0M0W DE DWEEEEE
VV 0M.W DE DJ46 K
R S.2. DE 02SR QSA 2 QS EEEEE
VV 0M.W DE DJ46 K
VV 0M0. DE DJ46 K (1244z silent)

5183 kHz, 04-05, 1556 UTC
VV XLF9 DE E9WH K VV XFL9 DE E9WH K
VV EWJ. DE E9WH K
VV Q.Y NR .E UQSY . U QSY U QAH E A. EEEE
U QSY NR 14 K
VV XLF9 DE .... K VV XLF9 DE E9WH K
R AS
VV EWJ. DE E9WH K
R GA K R GA K
R RPT 96W K
R RPT 15W K (Cont'd to ask for repeats)
R QSL 000. K (1606z silent)

5588 kHz, 06-05,1145 UTC

III BT D3TD 7NU4 6434 UA6. (Cont'd)
III BT 64T6 TA4N D5N4 UA5A (Cont'd)
III BT TNA7 AR (1155z - Silent) (This frequency normally used by 2SLC)

8888 kHz, 07-05,1413 UTC

05 05 (Cont'd)
6DT5 05 05 05 05
VV K 05 BT AR 05 05 05 05
/EX RMKS NIL SK GB NIL SK GB
50 05 05 05 05 (Cont'd)
= AR 05 05 AR (Cont'd)
... DNTA U345 6TU54 367 NAD54 (Cont'd)
05 05 05 05 (Cont'd)
NIL SK
05 05 OK WK OA EEE 066 DE 7AR
05 = = 4NA3 5U7. DT5A N..?
05 05 05 6DNAT5.5 = =
4NA3 5.76 DT. AND3U 467DN4 T57U A3674 TDUN5A..7.. (Cont'd)

5555 kHz, 08-05, 1233 UTC

RMKS 918 FM 3.91 EEEEEEE. RMKS 91? FM 392 =
N.S 9J8 FM 391. EEEEEE
C EEEEEE RMKS 916 AR TO
RMKS .. AR TO 96. TO 913 AR K
RMKS 961 .EEEEE EE
RMKS 916 AR TO 93 AR K EEEEEE
RMKS 6 AR . FM 33 AR = ... RMKS 916 . TO EEEEEE
RMKS 9161 TO 9131 K
RMKS 9161 TO 865 AR K
RMKS 918 FM 3865 AR = EEEEEEE
46D6 456N 45U6 6N63 6... (Cont'd) (Silent – 1338z)

7675 kHz, 02-05, 0318 UTC

6D57 3NDN NNT6 4556 D76T (Cont'd)
AR
VVV DK02 DE DQ4K
R 0HSZ DE J70S
R QSL2 QSA? K
R QSA2 K
R K
PT 22W K
R RPT 22W = 7A63 AR K
R QSL? K R QSL 1123 K
R R U 1200 COMM 40R K
R HR WK
VV 49RX DE DMR5 K
R-4SZ DE F2SQ R QSA2 QSA? K
R QSA 2 K
OK QSL 1124 K
R U 1200 COMM DK02 K
R R HR WK.. OK
R EEE VV F6N. DE4 K
R 05SZ DE B5PW R QSA2 QSA? K
R QSA1 K
R QSL 1125 K
R EEE R U 12EEE R U 1200 COMM HGS3 K
R RHR WP W K
VV HGS. DE DMR4 K
R EEEEE R 0SSZ DE EEEEEE
R 0HSZ DE J3UU R QSA2 QSA? K
R QSA2 K
R QSL 1126 K
R U 1200 COMM FBN.
R HR KP2 K R
VV GPH3 DE DMR5 K
R 0SHZ DE CH2V R QSA2 QSA / K
R QSA1 K
R R QSL 1127 K
R U 1200 COMM 0WMT EEEE
R U 1200 COMM 0JWT K
R RHR KP K
VV 9JMX EEEE
VV 0JMY DE DMR5 K
R 0SHZ DE GGVR QSA2 QSA? K
R QSA 1 K R QS..
B9N3 DE D...5 K
R 0HSZ DE GG1X R Q EEE
R 0HSZ DE GG1X R QSA 2 QSA ? K
R QSA 1 K
R 120 EEEE R QSL1 K
DNT2 DE DMR5 K
R 0HSZ DE B1PR R QSA2 QSA? K
R QSA1 K
R HR WK NR 15 QSL 1130 K
R K QSL 1130 K
R U 1200 COMM B9NV K
R R HR KP2 K
VV SJV4 DE DMR5 K
R 0SHZ DE DLVW EEEEE. R 0HSEEEEEE
R 0HSZ DE DLV4 R QSA2 QSA? K
R QSA 1 K
R QSL 1129 K
R QSL 1131 K
OK
R U 1200 COMM J70U K
R R HR KP ..
VV J70U DE DMR5 K
R 0HSZ DE ..T8 R QSA2 QSA? K
R QSA1 K
R .. AGN R QSL?
QSL 1132 K
R R EEE R U 1200 COMM HJ44 K
R (0335z silent)

5588 kHz, 08-05, 2209 UTC

05 05 05 (Extremely slow)
NV = = = = = = = =
III III III = = BIIIISEEEEE = = = =
DUT6 6NTA 5.54 3T5D .5..I 44UA NTU74 A.TD NDN. NE TD66 = = =
TU = = = = = = = = = = = = = = = = = = =
DUT6 6N.A 5554 3T5D N4IIIE SIII SII EEEEE = = =
DUT6 6NTA 543T 5DT4 444I
05 05 05 (extremely slow) = =
DUT6 6NTA
RA = = = = = = =
DUA6 6NTA 543T 4.UVVVVV = = = =
6NTA 543T U= = = =
DUUIIIIIIEEEEE = =
DU.6 D6NT A544 43T5 DNUU .TD6V 4444 4T3 (2219z silent)

8109 kHz, 23-05, 0140 UTC

7T33 NA5U 46UT 3AA3 (Cont'd)
= = ..76 63UT N4T4 N7TA 734A (Cont'd)
AR

7546 kHz, 31-05, 0846 UTC

TTUN D54U TNA6 TAU. (Cont'd)
NR HR WK NR L10/83 VV
8X.J DE YLE EEEE
VV 8XNJ DE YLE9 K
R QSA 2 QSL ? K
R GA K
VV F.IK DE YLE9 K
R QS... ? K
R U NR GA K
R AS
VV 2Z.. DE YLE9 K
QSA 2 QSL ? K
.. NR GA K
OK AS
VV XV6M DE YLE9 K

8512 kHz, 31-05, 0210 UTC

VVV W1K
PRDG DE 2MVZ QSA 3 QSA ? K
WRTK
DE 2MVZ QSA 3 QSA ? K
DE PRDG QSA ? K
PRLDG DE AQLS QSA 2 FOR QRJ 2 K
QSA 2 R K
OK K
R K
H24M DE PRDG QSA ? K
PRDG DE H24M QSA 1 QSA ? K
QSA 2 K
OK K
R K
MX2Z DE PRDG QSA ? K
JWDO DE MX2L QSA 1 K (as sent)
QSA 2 FOR QRJ ? K
3OWQWJ 2 K
R K
QA9K DE PRDG QSA ? K
PRDG DE QA9K QSA 3 FOR QRJ 3 QSA ? K
QSA 3 R K
2MV7 DE PRDG QSA ? K
DE 2MV7
.... DE PRDG QSA ? K
DE 2MV7 QSA 3 QSA ?
DE 2MV7 QSA 3 QSA ? K
VVV .. K

6831 kHz, 22-05, 1525 UTC

12./EX 160 .. R 1. 69/EX 160 =
V.M/Q. NA. 3 QE. .03 AR K
QSL S..P DE QPSL QP
NR 137./EX 1604 =
AB../..LNR ..Z /EX 16.. AR (Cont'd mostly unreadable)

8109 kHz, 23-05, 0204 UTC

RMKS 6030 TO 6098 K
R R R R R R = =
5DD4 A5TA U6U4 6DD4 55UA UAD6 U373 5TT. TA63 TTAA (Cont'd)
III BT 744A AU74 D45A (Cont'd)
III BT 7D46 644A (Cont'd)
III BT UADA TNND (Cont'd)
AR
RR WE4P
R 4P R R 9III EEEEE 99W = = 4AAN 4AAN AR
R R 96W 96W = = NU7U NU7U ? 75U3 75UE AR
AGN
R95W = = 7UN6 7UN6 AR (Cont'd)
AR R R R = 5TD6 EEEEEE
R 20W 20W = = U6U AR
= TU6U TU6U AR
= TU6U TU6U AR
EEEE R U MSG GA K
R GA
EEEE U MSG 80M GA U MSG 80M GA RR GA R GA

8676 kHz, 31-05, 0201 UTC

CQ (x3) DE DP91 (x2) V (Cont'd)
PSE PSE PSE ALL LL E
PSE PSE PSE ALL ALL LL LL LL TO TO TO HR HR HR (x3) (0207z - Silent)

4980 kHz, 30-05. 0158 UTC

NR 1301 51 0 00005 =
JP =
U47A TU3T TTTT AE.. (Cont'd)
III IIII 2P = ... (Cont'd –

5783 kHz, 30-05, 0147 UTC

= UBB7 34AU 5N7T AT47 46D4 33DU 56U7 TDUT D35N TA54 7ATD (Cont'd)
III = = = = =
...3 43TD DNT7 NTAD NAA3 (Cont'd)
III = = = = =
A..4 TIDD 5 U67D NNUA (Cont'd)

6383 kHz, 30-05, 1323 UTC

47TD N34T A6N5 5T46 (Cont'd)
K K QSL ? K

7021 kHz, 30-05, 1306 UTC

TND3 DNA7 4.UA UDAN 7N4D AR K K
RPT
R 3.W = .954 AR K
R R (1307z – Switched to voice)

7773 kHz, 30-05, 1309 UTC

5446 74N3 A.4D NT5D (Cont'd)
AR K
RPT 41W = = A74D A74D K
OK GA

7811 kHz, 30-05, 0136 UTC

4DT6 D756 TDUN 6A3D 3D7A (Cont'd)
AR QSL ? K
R R EEEE R HR WK NR 0C/89 K
R EEEE R KP (0140z - Silent)

10180 kHz, 30-05, 0129 UTC

SVC GA EEE
VV HR SVC GA NR 117 0930 RMKS 5188 TO 5508 =
CL/000/ME=/58 28245 EEEE =
CL/0000/ME=/582/5508 AR
QAH ? EEEE QLS EEEEE QLS EEEEE QSL ? HR WK NR 237.

7810 kHz, 29-05, 0013 UTC

DUA7 A7ND A547 TA6N 6U3N 5374 UN36 A5T7 (Cont'd)
E = B = WMLX =
WMLX RNNG TFDC RDYL SSPI NVNO SPDN NNDB GXZR QWGE
PLZR ANDM EFYV OKYT SAWD ZFVC AWMR
E = T43N ANN4 33.U ANTA 4TAT (Cont'd – 0019z)
E = 4UN5 D =
4UN5 D734 = =
4UN5 D734 5A3D NI (Extremely fast)
633A 6T4T 35N.
WMLX RNNG TFDK E
= QO.T FJRU VB =
IKPV .JJK XVXS HROZ OEZQ RFTY KTHR NPEN FDMN FANI YLWB
DHUI XVFX XQVD NG.. OFYA B =
UGTL HVJE XXRO NJEL CMJW PDZQ MHDZ VTDB EDBD UOKG
VTJB MHPM S.MH ICSV KISR XZTC ACQZ MUZL SZWH HJET LRYM
AALV FBGR VSUD YXO (0037z - Silent)

8021 kHz, 29-05, 1052 UTC

46DU 5N4T 3A75 (Cont'd)
05 05 606 = = = (Long zero)
70D5 UD.3 674A (Cont'd)

3220 kHz, 28-05, 2042 UTC

A756 N4U. T3T7 U.5. (Cont'd)
AR
R R AS AS
R AS AS
VVV HR WK NR 145 ..8.
VVV HR WK NR 1358781 K
R R AS AS
VV B.K
R AS B K K EEE .T7X K
R R
VVV .KIN KEN (mostly unreadable)

5162 kHz, 28-05, 1354 UTC

R QSA ? K
R IEC = NGWU AR K (1354z)
R OK . WK NR 5. HR WK NR 48 HR WK NR 48 K
HR WK WK NR 48 WK NR 48 K
R HR 7G GA
MSG NR 3472 CK 65 63 0528 2150 RMKS 1436130 TO 1436134 K
R =
A657 6U54 3.7T 4TD3 6UT4 T7ND 5TD6 (Cont'd)
AR K
OK U 7G GA K

5335 kHz, 28-05, 1405 UTC

DA36 37T5 63AT 7ANU (Cont'd)
AR AR K K (
R GA. R GA
R QSL ..12 K K
MSG NR MSG NR 2034 CK 75 71 0528 21.. RMKS 14367110 TO 4136715 K
= .3DUA.. UA UNA6 DU6. (Cont'd)

8256 kHz, 30-05, 1315 UTC

63A4 D4TA 3UAN 67AT (Cont'd)
AR K
CO K
OK K
C .. K
R GA

5555 kHz, 29-05, 1321 UTC

7G K NR 101/CF. CU.565 -05 K
7G NR 101/CFUFU95 65 0529 2040 RMUS 2119 TO 2120 K
7G NR 101/CFUFF95 65 0529 2040 RMKS 2119 TO 2120 K
564U DA6T ... (Cont'd)

7811 kHz, 29-05, 0101 UTC

..7R1 QSA 2 QSA ? K
QSU O AR
R GA
R GA
R QSL 0907 K
R HR 7G GA K
7G NR 50 EEEEEE
7G NR 5533 CK 79 15 0529 0900 RMKS 3164481 TO 3164487EE
RMKS 3164481 TO 31648Z EEEEEEE
RMKS 3164481 TO 3164487 K
=
575 ? 57? 57III ?
57TU T7DU 4A53 TUA5 7UTD (Cont'd)
(M89 traffic being sent on 7838 (3164991 TO 3164993) and 7845 kHz
AR K V ? 4U5D AR QSL ?
R N GA K
R GA
R QSL 0921 K
R HR 7G GA K
7G NR 5534 CK 79 55 000EEEEEE
7G NR 5534 CK 79 55 0529 05 EEEE
7G NR 5534 CK 79 55 0529 0900 RMKS 3164481 TO 3164487 K
=
5DN7 NAD3 6NUT D7TN A3ND 5TA4 7TA4 4U67 D67U T5U4 54ND (Cont'd)
AR QSL ? K
R OK N GA
R QSL 09.2 K
R HR 7G GA 7G
NR 5535 CK 79 87 0529 0900 RMKS 3164481 TO 3164487 K
=
5N4U 4A3D (Cont'd)
(On 7845 HR MSG NR 5534 CK 72 15 0529 0900 RMKS 316426A TO 316426 K
@0136z)
AR QSL ? K
R K (0137z - Silent)

5582 kHz, 28-05, 2104 UTC

= 4547 ANUD 36A4 DN65 5743 T634 (Cont'd)
QSL ? K
R OK U GA K
R CYOK QSL 0510 K
U CY MSG NR 3505 CK 70 17 0529 055 EEEE
AGN NR 3505 CK 70 17 0529 0500 RMKS 3164538 TO 3164536 =
4A63 A647 4567 7UT7 4ADT U34D A4U3 UD3T UDNT NTA5 (Cont'd)
AR QSL ? K
R OK U GA K

5387 kHz, 28-05, 1414 UTC

UA.3 T35D 57UD N5A6 (Cont'd)
K
RPT K K
R R 31W = .N3T UT63 (Cont'd repeat groups)

5555 kHz, 28-05, 1331 UTC

NUDT DUN4 46DU N3DA N3D5 (Cont'd)
AR K
R 1W = AU34 AU34 AR K
OK KP

6652 kHz, 28-05, 0101 UTC

VV FY85 FY85 DE CITJ CITJ K
VV 8KN4 8KN4 DE CITJ CITJ K
UV 8KN4 8KN4 DE CITJ CITJ K
QSA 2 EIC MSG GA C. K
RPT (Stations being worked not on this frequency)
R MSG NR 1727 CK 72 98 EEE
NR 1727 CK 72 98 0528 09 EEE
NR 1727 CK 98 0528 0900 <98%200528%200900> RMKS 31642UTO 3164262
=
A... U345 UD47 4A6N ND36 (Cont'd)
AR QSL ? K
R U GA
NR.EEE R NPT 33W K (Cont'd request repeats)
QSL 0915 K
R HR MSG GA CY
MSG NR 1728 CK 7. 55 0520 0900 RMKS 3..4 265 TO EEE
RMKS 316426. TO 0 EEE RMKS 3164265 TO 3164262 K
= =
A7U3 35U4 A5TN (Cont'd)
AR QSL ? K
RP EEE RPT 4W = ... K
NPT 6W = N5T7 N5TN AR K (0121z) (Cont'd repeat groups)
R GA

7949 kHz, 28-05, 0204 UTC

R HR WK NR 0045 K K
R HR .. I EEEE R HR NIL SK
J3SY DE (All stations on this frequency)
VV G8WF DE GRBW K
VV G8.F DE GRBW K
VV DJ1F DE GRBW K
ARJQ DE G4ZY R QSA 2 QSA ? K
R QSA 2 K
R AS
VV SW.L DE GRBW K
R ARJ. DE ND3. QSA .... QSA ? K
R QSA 2 K
R AS (0207z)
HR MSG GA K (0210z)
N GA
R HR MSG GA
MSG NR 054 CK 99 78 0528 1000 RMKS 4205 TO 4329 4395 =
U3? UD67 3.U4 6657 4AA5 3446 U733 (Cont'd)
AR
FM H? 7UE EEEEE
AR QSL ? K (0216z-
VV DJ.F DE EEEEEE
VV DJ1F DE GRBW K
AWJQ DE G4ZY R 05 NA.. DE G4ZY R QSA 2 QSA
QSL ? K
QSL ? K
RPT 24W K
R RPT 24W 3TAA ETAA K
NR PT 25 W TO .... (Cont'd repeat groups)
R 10.. K
R HR WK NR 0045 K
HR WK NR 0.55 K
N HR WK NR 0.55 K
R HR NIL SK
NIL SK
VV G8WF DE GRBW K
VV G8WF DE GRBW K (0220z - Silent)

6498 kHz, 28-05, 0040 UTC

VV JH7S DE D32D K
R QSA 2 QSL ? K
R AS
V V K976 DE D32D K
R QSA 2 QSL ? K
R AS
VV K8.. DE D32D K
R QSA 2 QSL? K
R AS
VV HR CQ MSG GA HR CQ MSG GA
MSG NR 1680 CK .9 69 528 0830 RMKS CQ =
U.ED 46N5 6457 3674 TNDU D... (Cont'd)
AR
VV D32C DE D32D K
R QSA 2 QSL ? K
R HR WK NR 31642 YJ21612 . 4.
VV 6.4H DE D32D K
R QSA 2 QSL ? K
R HR WK 164 2 3121 6122 47 K
R RPT K
R AS
VV JH75 DE D32D K
R QSA 2 QSL ? K
UR WK NR 3164 2 3121 6122 47 K
R AS
VV K976 DE D32D K
R QSA 2 QSL ? K
R UR WK NR 3164 2 3121 6122 47 K (0054z – Silent)
R AS
VV K84. DE D32D K
R QSA 2 QSL ? K
R RPT K
R UR WK NR 3164 2 3121 6122 47 K
R AS
ALL NIL SK ALL NIL SK

6652 kHz, 28-05, 1653 UTC

R 3TND 3TND DE JU8L JU8L R QSA 2 QSA ? K
R QSL 5052 EEEE QSL 0052 K
R R
3TND 3TND DE HYY4 HYY4 R QSA 2 QSA ? K
HR.K NR X F EEEE SR EEEEE R HR WK NRX./03 K (1655z – Silent)

6681 kHz, 28-05, 0109 UTC

MSG GA
MSG NR 3469 CK 79 18 0528 0900 NMKS 16 EEEEE
RMKS 3164678 TO 3164671 K
R
HR MSG GA MSG
NR 3469 CK 79 18 0528 0900 NMKS 3164678 TO 3164671 K
= UA6D . =
N4 6ANU D46A (Cont'd)
(Thought this was other end of 6652, but isn't, so return to 6652)

7810 kHz, 28-05, 1109 UTC

D733 NDT4 T5D5 TAA4 T34A (Cont'd)
AR K
MQL
JOOW G... 100W 100W W JW 100W
W AS W

8370 kHz, 28-05, 1726 UTC

735N N573 N5.3 4TU3 47DU (Cont'd)
AR K
NPT 55W = 7UTD 7UTD AR K
R QSL 0130 K
NU GA EEEE NU.. RAGA
N GA

7740 kHz, 28-05, 1711 UTC

ANUD U764 7UT4 576 ? 5763 46U7 NDU4 (Cont'd)
AR
PT33W = = 5763 5763 EEEEE = 5763 5763 AR K
R OK

7549 kHz, 28-05, 0127 UTC

RMKS 3164487 TO 3164481 K (0128z)
=
3N75 7U56 AUD7 N5U7 U675 U73N NT34 U3N7 56AT (Cont'd)

8346 kHz, 28-05, 1721 UTC

43N6 DA3T A65N NTDU 6UD5 754N (Cont'd)
AR
QSL ? K
R RPT 79W = 6ANU AR K
R OK

5555 kHz, 27-05, 0256 UTC

UT64 3TAA 65TD 45A4 (Cont'd)
SOFG QPBJ AYEU VHSQ CTXI WNPD TYEWY XIJA JSOQ.. (Cont'd)
(Switched back to normal cut numbers. Silent 0304z)

6480 kHz, 27-05, 2000 UTC

EDVK EDVK EDVK
NR 1974/EX 0400 =
CT1/1YU AR
NR 1974/EX 0400 =
CT1/1YU AR
NR 1974/EX 0400 =
CT1/1YU AR
QSY 81 QSY 81
VVV

9203 kHz, 27-05, 1313 UTC

2100 RMKS 0113 TO 0119 K
= =
43AU 56A7 U6TA 5NDT 3AU6 T4AU 57AT 5DAU 63AU 6NDA D3TN (Cont'd)
AR
R GA

7810 kHz, 27-05, 0313 UTC

VVV DP6191 DE DP91 CL K
VVV DP6191 DE DP91 CL K
MSG MSG MSG
NR 01. 00 6 = 748297424786150987522 33873 54497 3218.
= R. = (Signal fading)
..UN D734 AS (0318z - Silent)

5699 kHz, 26-05, 1735 UTC

79 87 0227 0100 RMKS 3164482 TO 3164487 K
=
64T7 6NUT AU3N 3TU7 436T 3D45 45A7 TU7A AU3D 6A.U A54E (Cont'd)
AR K
OK
R HR WK NR ALT/83 K
SK

8075 kHz, 25-05, 1509 UTC

364N 3AAU U4.7 34NU (Cont'd)
III = 3DTA UA43 56.A 5.4U (Cont'd)

10289 kHz, 28-05, 1052 UTC

R QSA 3 K
R R GA K
R R QSL 1853 QSL 1853 K
R R HR F GA K
R FFF NR 6109/EX 1856 RMKS 2485615 TO 2485613 =
N2W/I9T AR
FFF NR 6109/EX 1856 RMKS 2485615 TO 2485613 =
N2W/I9T AR
NR 6109/EX 1856 RMKS 2485615 TO 2485613 =
N2W/I9T AR
R AS AS K
R USB USB K (1059z – Switched to voice)

3261 kHz, 27-05, 2000 UTC

3ETW (Cont'd)
VVV FF /1980/EX 0418 =
AHK2/C7.1 AR
FF/1980/EX T418 =
A5K2/C7M1 K
FF/1980/EX 0418 =
A5K2/C7M1 AR
VVV QSY 17 QSY 17 QSY 17 R
VVV

5236 kHz, 27-05, 2034 UTC

313532 WK 31.. 42 WK NR 31352 WK N. 13542
IEC QRRP QRRP K K (Normally associated with Exercise)
NR QSL .4
WK 3SBE3ES 3SB K K
3SB E3SB 3SB
K K K
IEC IEC QR.P QRRP K
K
OK ONC9 JNC9 JNC9 K K
IEC IEC IEC QRRP QR NP K K
OK OK R8CY F8CY F8CY K K
K R N IEC IEC IEC QR.P QRRP AK
OK OK MK8B WK8B WK8B WK8B K

7797 kHz, 27-05, 2006 UTC

NR 1908/EX 0406 =
X0R/JZ8 AR
NR 1908/EX 0406 =
X0R/JZ8 AR
QSY NR 11 QSY NR 11 VVV

7893 kHz, 25-05, 1509 UTC

3U56 UTD6 .ADT6 . A4N 57A. (Cont'd)
AR QSL ? K
OK GA .. NR 193529.. 04 AR
OK GA EEE GA K

8283 kHz, 25-05, 1458 UTCX

RR VV B2BD DE S3YP K
(Other stations on this frequency, but too weak to copy)
VVV .Q DE S3YP K (
VV A.D. DE S3YP K
HR U . .. K
NR 356./EX 22.. RMKS CQ K
= = N1FQ/V1ZY AR
= = N1FQ/V1ZY AR K K
QSL 2202 K K
HR .. PAK
R NIL
R NR NR 3461 CK CK 509 41.. 5.00 RMKS/K K
(Weak station into tfc – too weak to copy)

9213 kHz, 27-05, 1232 UTC

V U5IK DE YLE9 K
QSK EEE R QSA 2 IEC = 48 ZF AR K
NOK AS (Outstations on another frequency)
VV 2ZSB 2ZSB EEEE. VVV 2ZSB 2ZSB DE YLE9 YLE9 K
N R EEEE R QSA 2 IEC = S54Y AR K
N OK AS
TV XVBM XV6M DE YLE9 YLE9 K
N QSA 2 IEC = YLE EEE R QSA 2 IEC = EEEE
R QSA 2 IEC = YLEJ AR K
N OK AS
AV TRV9 ARV9 DE YLE9 YLE9 K
N QSA 2 IEC = T8DB AR K
N OK AS
IRCQ E GA CY E
NR 1656/EX 2040 RMKS CQ =
G7B/BD1 AR
NR 1656/EX 2040 RMKS CQ =
G7B/BD1 AR
NR 1656/EX 2040 RMKS CQ =
G7B/BD1 AR
VV 8XEEEE. VVV 8XNJ DE YLE9 K Z
N QSA 2 QSL ? K
UVV RUV9 DE YLE9 K
R QSA 2 QSL ? K
VV U5IK DE YLE9 K
N QSA 2 QSL ? K
N AS
V V2ZSB DE YLE9 K
R QSA 2 QSL ? K
N AS
VV XV6M DE YLE9 K. VV XV6M DE YLE9 K
N QSA 2 QSL ? K
N AS
HR M EEEE
HR CQ MSG GA CY
HR MSG GA MSG NR 1657 CK I9 15.EEEEE
MSG NR 1657 CK 79 15 0527 2030 RMKS CQ =
A47D D7TU 43DA D6AU U4A5 4DTN 357U 46DT (Cont'd)
AR
.... DE YLE9 K
N QSA 2 QSL ? K
N .HR WK NR L10/81 K
N AS
TV ARV9 DE YLE9 K
N QSA 2 QSL ? K
HR WK NR L10/81 K
N AS
UV U5IK DE YLE9 K. TVU5IK DE YEEEE. AV U5IK DE YLE9 K
HR WK NR L10/81 K
N AS
U V 2ZSB DE YLE9 K
N QSA 2 QSL ? K
N HR WK NR LEE EEEE HR WK NR L10/81 K
N AS
V XV6M DE YLE9 K
N QSA 2 QSL ? K
N HR WK NR L10/81 K
N AS
V HI3 DE Y EEEE
V HI3 DE SK SK (1229z – Silent)
(Control station YLE9 worked stations 8XNY RUV9 U5IK 2ZSB XV6M and ARV9)

9245 kHz, 27-05, 1306 UTC

3U CK 61 25 0527 2100 RMKS 0119 TO 0113 K
01W = =
A7UD D7A4 7AU5 57DN D74T 543U .DU N4DU 4A35 74T3 7DN5 (Cont'd)
AR K
R 03W =
N? = 7AU5 AR K
R GA
(Other station found on 9203 sending message - refer to 9203 logging)
NR 5433 CK 61 64 0527 2100 RMKS 0119 TO 0113 AR K
R MSG 1W =
A3TN 76UA 4U5D 4TNA D67T 6UN7 534T 3N5T 4NTN 3UN6 T3ND 6AN5

4522 kHz, 26-05, 1604 UTC

5745 D5N7 3DTN TD5N (Cont'd)
AR QSL ? K
R RPT 68W K (Both station on this frequency)
R RPT 68W 56DT 56DT K (Cont'd to repeat groups)
R QSL 0010 K
R U MSG GA K
R HR MSG GA K
R GA
R HR MSG GA MSG NR 08.. CK 99 56 0527 0000 RMKS 6078 TO 6528 / 6078 =
73D. 566D A66A 5TNU 4N3U 7DUA 4637 N47T TU43 TT.3 ? TT33 (Cont'd)
AR QSL ? K
R QSL 0014 K
R R HR WK NR 0033 K
R HR WK NR 0.11 K
R HR NIL SK
R HR NIL SK

7620 kHz, 26-05, 1758 UTC

2U68 QSA ? K
R R QSA ? EEE RRR QSA 2 K
FR IEC = = 3164 31F ? EEEE IEC = 3164 3117 3109 3228 AR K
R IEC = 3126 3155 33115 AR (Normally associated with Exercise)
AR (Both stations on this frequency)
C K
R R HR WK NR 3179 6473 UWK ? K
R R HR WK NR 3179 32Z 7T K
R R HR 7G GA
CY
HW / k
R R GA
R 7G NR 3004 CK 71 75 0527 01EEE
NR 3004 CK 71 75 0527 0A .
R GA
NR 7G GA = =
UA34 T57A 7.63 T47. ..4 5DN.T.. (Cont'd)
AR K
QSL 0204 K
R R OK U 7G GA GA K
R R 7G NR 4004 CK 65 75 0527 0150 CY HW ? K
R R GA K
= =
U7TA ..DU 5T46 43UD N? T4N5 3UND 63AN D7N3 D74T 5NU3 N65A 3U7T
(Cont'd)
AR
R R OK QSL 0209 QA QSL 0209 K
OK
RR 7G GA K
R R GA K
R R 7G NR 3005 CK 71 61 0527 0150 K
R R OK GA K
R 7G GA
R OK = = =
U7TA TADU 5T46 43UD T4N5 3UND A3AN D7N3 D74T 5NU3 N65A (Cont'd)

UM01
Unid CQ station

Frequency: 3581 kHz. Active: 24/7. Mode: CW. Location: probably Siberia

01-05 1444 UTC CQ P 16
01-05 1624 UTC CQ P 14
01-05 1845 UTC CQ P 12
01-05 1944 UTC CQ P 11
01-05 2045 UTC CQ P 11
02-05 0825 UTC CQ P 20
03-05 0805 UTC CQ P 22
03-05 0512 UTC CQ P 21
03-05 1405 UTC CQ P 21
03-05 1747 UTC CQ P 18
03-05 1844 UTC CQ P 17
04-05 0756 UTC CQ P 23
04-05 0040 UTC CQ P 15
04-05 0920 UTC CQ P 22
04-05 0932 UTC CQ P 23
04-05 1310 UTC CQ P 22
05-05 1445 UTC CQ P 23
06-05 1648 UTC CQ P 11
06-05 2040 UTC CQ P 17
09-05 1754 UTC CQ P 14
09-05 1905 UTC CQ P 13
09-05 2022 UTC CQ P 13
11-05 1848 UTC CQ P 5
11-05 2112 UTC CQ P 4
12-05 1458 UTC CQ P 14
12-05 1640 UTC CQ P 15
12-05 2045 UTC CQ P 16
13-05 1328 UTC CQ P 16
13-05 1456 UTC CQ P 15
13-05 1907 UTC CQ P 13
13-05 2247 UTC CQ P 12
14-05 1449 UTC CQ P 13
14-05 1655 UTC CQ P 11
14-05 1745 UTC CQ P 10
16-05 1513 UTC CQ P 15
16-05 1723 UTC CQ P 14
20-05 0447 UTC CQ P 9
21-05 1702 UTC CQ P 1
22-05 1516 UTC CQ P 13
22-05 1547 UTC CQ P 12
23-05 2055 UTC CQ P 14
24-05 0202 UTC CQ P 8
24-05 1307 UTC CQ P 14
24-05 2051 UTC CQ P 14
25-05 1601 UTC CQ P 9
26-05 1347 UTC CQ P 10
26-05 1558 UTC CQ P 10
26-05 1712 UTC CQ P 10
27-05 0328 UTC CQ P 8
27-05 1221 UTC CQ P 9
27-05 1726 UTC CQ P 9
27-05 1942 UTC CQ P 8
27-05 2207 UTC CQ P 8
28-05 0031 UTC CQ P 7
28-05 0031 UTC CQ P 7
28-05 0202 UTC CQ P 8
28-05 1040 UTC CQ P 9
28-05 1134 UTC CQ P 9
28-05 1342 UTC CQ P 8
28-05 1639 UTC CQ P 8
28-05 2040 UTC CQ P 7
29-05 0010 UTC CQ P 7
29-05 0150 UTC CQ P 8
29-05 0317 UTC CQ P 9
29-05 1044 UTC CQ P 11
29-05 1317 UTC CQ P 10
30-05 0126 UTC CQ P 6
30-05 0126 UTC CQ P 9
30-05 0126 UTC CQ P 6
31-05 0227 UTC CQ P 9
31-05 0837 UTC CQ P 10
31-05 2310 UTC CQ P 7

UM10
Unid 10-minutes net

3334 kHz 01-05 1447 UTC POCI
4136 kHz 01-05 1447 UTC POCI
3709 kHz 01-05 1627 UTC NJ6A
3709 kHz 01-05 1952 UTC NJ6A

VARIOUS MODES

HM01
Dirección General de Inteligencia

M42 & X06

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

Russian Government & Intelligence

After JP's discovery of a CW diplo net, now André copied them on several frequencies.

8121 kHz, 06-05, 0632 UTC In progress : 51080 27238 .... RPT = 11100 60102 45654 06056 01009 = MHWPW DJTPL WSGGZ SDWVE BESXX .....

8121 kHz, 06-05, 0702 UTC UHA QSY 13382. UHA QSY 13382

13382 kHz, 06-05, 0702 UTC RPK QSA4 QSL 2 NIL

8121 kHz, 06-05, 0706 UTC UHA NIL SK

13382 kHz, 06-05, 0706 UTC RPK SK

16320 kHz, 05-05, 0150 UTC, FSK 200/1000

Link ID 41008 Msg Number 128 : Msg Type 07145 : Group Count (?) 245 32768 02912 44832 07336 21686 33477 10076 00073
Link ID 41018 Msg Number 192 : Msg Type 07145 : Group Count (?) 255 32768 03936 44848 23724 29942 33485 10108 00201
Link ID 41018 Msg Number 192 : Msg Type 07145 : Group Count (?) 255 37392 24544 44848 23724 21686 33477 10072 00073

14880 kHz, 05-05-, 0230 UTC, FSK 200/1000

Link ID 33379 Msg Number 244 : Msg Type 53249 : Group Count (?) 8 16448 02048 00961 02688 39665 32768 01696 29696

13377 kHz, 06-05, 2300 UTC, FSK 200/1000

Link ID 07958 Msg Number 103 : Msg Type 05174 : Group Count (?) 22 16739 25409 05692 32028 15371 16761 14273 32844
Link ID 13366 Msg Number 099 : Msg Type 13367 : Group Count (?) 54 17251 58115 13876 27924 15371 16697 14273 32844
Link ID 57372 Msg Number 057 : Msg Type 07145 : Group Count (?) 95 44524 08243 41707 08223 06545 32776 09982 49728
Link ID 30260 Msg Number 066 : Msg Type 37427 : Group Count (?) 121 44536 12276 44749 37319 13806 13952 01778 09679
Link ID 40990 Msg Number 057 : Msg Type 07145 : Group Count (?) 95 44524 09265 41834 08223 06421 34819 08958 57429
Link ID 61468 Msg Number 061 : Msg Type 07145 : Group Count (?) 95 44524 09265 62186 08207 39387 32905 09982 58288
Link ID 44572 Msg Number 057 : Msg Type 05099 : Group Count (?) 95 44526 25713 41706 08207 06549 32781 09983 57938
Link ID 40991 Msg Number 061 : Msg Type 07145 : Group Count (?) 95 44524 09265 41710 08207 07061 32780 12031 57935
Link ID 45084 Msg Number 057 : Msg Type 07145 : Group Count (?) 95 44524 09265 41704 08207 06533 32780 09983 57426
Link ID 40988 Msg Number 057 : Msg Type 07145 : Group Count (?) 95 44540 09393 41706 08207 06421 32780 09983 57426
Link ID 40988 Msg Number 057 : Msg Type 07145 : Group Count (?) 95 44524 09265 41706 08207 06559 32783 12031 62454
Link ID 40988 Msg Number 057 : Msg Type 15353 : Group Count (?) 95 60924 09265 58090 08271 07583 34830 09983 62450

Link ID 40988 Msg Number 057 : Msg Type 07145 : Group Count (?) 31 44524 09265 41194 08207 40437 35020 14335 62290
Link ID 40982 Msg Number 061 : Msg Type 07145 : Group Count (?) 95 44524 09265 41711 08207 48127 57373 32511 63479

11095 kHz, 06-05, 2310 UTC, FSK 200/1000

Link ID 40988 Msg Number 057 : Msg Type 07163 : Group Count (?) 95 44540 09329 41706 08207 06417 32780 09967 57858
Link ID 40972 Msg Number 057 : Msg Type 15337 : Group Count (?) 255 60908 09265 41706 08207 06431 32781 09983 58098
Link ID 53254 Msg Number 148 : Msg Type 05500 : Group Count (?) 143 36478 06808 53501 00007 33866 51342 04983 29097
Link ID 40988 Msg Number 057 : Msg Type 48105 : Group Count (?) 95 60652 09265 41706 08207 06549 32780 09983 57938
Link ID 40988 Msg Number 057 : Msg Type 07145 : Group Count (?) 95 44524 09265 41706 08207 07573 34828 08959 57938
Link ID 58510 Msg Number 121 : Msg Type 41914 : Group Count (?) 17 20050 33223 19099 22524 36936 44351 29439 26751
Link ID 40988 Msg Number 057 : Msg Type 07145 : Group Count (?) 95 44524 09265 41194 08207 02453 32780 09983 57938
Link ID 40988 Msg Number 057 : Msg Type 07017 : Group Count (?) 95 44396 09265 41706 00015 02197 32780 09983 57938
Link ID 61470 Msg Number 057 : Msg Type 07145 : Group Count (?) 95 44524 11313 58090 08207 06549 32780 09983 57938
Link ID 40984 Msg Number 057 : Msg Type 07105 : Group Count (?) 94 44488 08241 41194 08207 07646 34830 10239 58233
Link ID 40972 Msg Number 057 : Msg Type 07145 : Group Count (?) 95 44524 09265 41706 08207 04245 32780 09983 57938
Link ID 15887 Msg Number 187 : Msg Type 04912 : Group Count (?) 31 51328 51424 21784 20710 46675 12112 33590 25356

9128 kHz, 06-05, 2320 UTC, FSK 200/1000

Link ID 43548 Msg Number 057 : Msg Type 07145 : Group Count (?) 95 44524 09232 58090 57359 06549 32780 09983 57938
Link ID 41020 Msg Number 057 : Msg Type 07145 : Group Count (?) 95 44524 09265 41706 08207 06549 32780 09983 57938
Link ID 57769 Msg Number 243 : Msg Type 07161 : Group Count (?) 95 44540 11569 62661 27422 12843 00025 23790 54688
Link ID 40988 Msg Number 057 : Msg Type 07145 : Group Count (?) 95 44524 09265 41706 08207 06549 32780 09983 57938
Link ID 40964 Msg Number 016 : Msg Type 07145 : Group Count (?) 95 60908 09233 41710 08199 33858 57486 00631 29067
Link ID 16681 Msg Number 115 : Msg Type 05075 : Group Count (?) 30 02520 00115 17605 16414 12843 00025 23790 54709
Link ID 26862 Msg Number 149 : Msg Type 50403 : Group Count (?) 9 54536 30852 57650 07068 18943 61975 26817 50423
Link ID 40990 Msg Number 060 : Msg Type 07145 : Group Count (?) 95 44524 09265 41727 08199 39169 49292 24703 61442
Link ID 62604 Msg Number 121 : Msg Type 44991 : Group Count (?) 147 28275 49647 51867 22524 39532 44343 29439 26815

16320 kHz, 06-05, 0150 UTC, FSK 200/1000

Link ID 13366 Msg Number 000 : Msg Type 05174 : Group Count (?) 0 00000 00000 00000 01852 15371 03468 00000 14382
Link ID 41018 Msg Number 197 : Msg Type 07145 : Group Count (?) 117 32768 20928 03242 00181 23742 33279 01288 55158
Link ID 28547 Msg Number 112 : Msg Type 35063 : Group Count (?) 0 00248 32887 65465 16383 54220 00844 11513 35038
Link ID 41018 Msg Number 197 : Msg Type 07145 : Group Count (?) 245 32768 20944 07338 24757 21686 33242 01288 55154
Link ID 41018 Msg Number 197 : Msg Type 07145 : Group Count (?) 247 34816 63952 07338 24757 21686 33243 01288 55154
Link ID 41018 Msg Number 197 : Msg Type 07145 : Group Count (?) 245 32768 20944 07338 24757 20658 33243 01288 54130
Link ID 26374 Msg Number 081 : Msg Type 49187 : Group Count (?) 0 22762 00372 00627 07023 58015 18073 64995 08948
Link ID 41018 Msg Number 197 : Msg Type 07145 : Group Count (?) 245 32768 20944 07338 24757 21686 33243 01288 55154

14880 kHz, 06-05-, 0230 UTC, FSK 200/1000

Link ID 53354 Msg Number 004 : Msg Type 49804 : Group Count (?) 24 07431 17207 53626 03422 00512 33616 02088 02112

16320 kHz, 07-05, 0150 UTC, FSK 200/1000

Link ID 07227 Msg Number 128 : Msg Type 13366 : Group Count (?) 8 17392 00000 61952 57635 40461 00781 00008 21875
Link ID 41008 Msg Number 129 : Msg Type 07145 : Group Count (?) 244 32768 45270 01591 01690 47485 01225 47972 43907
Link ID 41018 Msg Number 202 : Msg Type 07145 : Group Count (?) 245 32768 45270 42939 02013 21686 33260 16442 54593
Link ID 57471 Msg Number 223 : Msg Type 08171 : Group Count (?) 247 32784 45567 61439 04095 62646 35820 54586 56641
Link ID 41018 Msg Number 202 : Msg Type 07145 : Group Count (?) 245 32768 45270 42939 02013 21695 35821 23934 56643
Link ID 58495 Msg Number 223 : Msg Type 07145 : Group Count (?) 245 32768 45303 65535 45055 65023 36845 65406 65475
Link ID 41018 Msg Number 202 : Msg Type 07144 : Group Count (?) 240 32768 45250 42939 02013 21686 35820 21818 56641
Link ID 08250 Msg Number 202 : Msg Type 07145 : Group Count (?) 245 32768 45270 42427 02015 65271 57342 32575 65505

14880 kHz, 07-05-, 0230 UTC, FSK 200/1000

Link ID 04132 Msg Number 000 : Msg Type 13366 : Group Count (?) 0 17248 00000 00000 00006 08192 03584 00000 08432
Link ID 08250 Msg Number 192 : Msg Type 06952 : Group Count (?) 244 32768 45078 42907 02013 20480 33280 21536 56320

16320 kHz, 08-05, 0150 UTC, FSK 200/1000

Link ID 14600 Msg Number 019 : Msg Type 51266 : Group Count (?) 220 57683 63880 18544 03279 31344 64305 22788 14792

13377 kHz, 13-05, 2300 UTC, FSK 200/1000

Link ID 13366 Msg Number 099 : Msg Type 13366 : Group Count (?) 54 17251 25411 13876 27924 15371 16697 14273 32844
Link ID 31870 Msg Number 231 : Msg Type 15486 : Group Count (?) 126 51175 59335 32636 61244 15371 16697 14273 32844

Link ID 13366 Msg Number 099 : Msg Type 13366 : Group Count (?) 54 17251 58179 13876 27924 15371 16697 14273 32844
Link ID 41021 Msg Number 124 : Msg Type 07145 : Group Count (?) 4 07836 00000 00020 01266 15253 00936 00893 58172
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 00936 00893 41788
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 00936 00893 41788
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 00936 00893 09020
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 00936 00893 41788
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 00936 00893 41788
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 00937 00895 41789
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01260 07647 35836 02943 64446
Link ID 61614 Msg Number 051 : Msg Type 07163 : Group Count (?) 12 07869 00281 53325 03312 53819 00577 01771 05993
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 00936 00893 41788
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 00776 00893 41788
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 00936 00895 41789
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 00936 00893 41788
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 07167 08189 02942 64446
Link ID 40988 Msg Number 052 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 00936 00893 09020
Link ID 41054 Msg Number 254 : Msg Type 07145 : Group Count (?) 4 07836 00000 00136 01776 07573 35768 02943 62268
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 00936 00893 41788
Link ID 00028 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 00936 00895 41852
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 00936 00893 41788
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06272 00264 00308 00268
Link ID 40984 Msg Number 024 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01216 02453 00936 00893 41788
Link ID 40988 Msg Number 060 : Msg Type 06633 : Group Count (?) 4 07324 00000 00000 01248 06549 00936 00893 41788
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 00936 00893 41788
Link ID 57372 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 00936 00893 41788
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 00936 00893 41789
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06559 01005 01023 41855
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 33704 00893 45884
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 00936 00893 41788
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 00936 00893 41788
Link ID 08220 Msg Number 060 : Msg Type 03041 : Group Count (?) 4 07836 00000 00000 01248 07647 35836 00895 64446
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 00936 00893 41788
Link ID 40988 Msg Number 056 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 00021 00520 00621 00812
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06559 01001 01023 41853
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 00936 00893 41788
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 00936 00893 41788
Link ID 62653 Msg Number 124 : Msg Type 07145 : Group Count (?) 4 07836 00001 02576 03312 15295 02025 06143 63357
Link ID 61501 Msg Number 124 : Msg Type 07163 : Group Count (?) 4 07868 00273 00016 03312 15295 02025 06143 63357
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 00936 00893 41788
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 00936 00893 41788
Link ID 00028 Msg Number 060 : Msg Type 04448 : Group Count (?) 0 07692 00000 00000 01248 06549 00936 00893 41788
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 00936 00893 41788
Link ID 40989 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01250 31125 00936 04989 45884
Link ID 08220 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 00936 00893 41788
Link ID 41021 Msg Number 254 : Msg Type 07145 : Group Count (?) 4 07836 00000 00150 03312 15295 02025 06143 63357
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06559 00936 00895 41788
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 00936 02941 41788
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 00936 00893 41788
Link ID 61501 Msg Number 124 : Msg Type 08187 : Group Count (?) 12 16060 04369 00016 03312 14741 00936 04989 45884
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06559 00941 00895 41790
Link ID 40988 Msg Number 060 : Msg Type 02537 : Group Count (?) 4 03740 00000 00000 01248 06549 00936 00893 41788

11095 kHz, 13-05, 2310 UTC, FSK 200/1000

Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 00936 00893 41788
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 0 03740 00000 00000 01248 06549 00936 00893 41788
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 07093 02024 06013 63292
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 00936 00893 41788
Link ID 00028 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 00936 00893 41788
Link ID 61470 Msg Number 190 : Msg Type 40957 : Group Count (?) 134 40926 00008 00128 01776 07647 35836 02943 64446
Link ID 40980 Msg Number 052 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01120 06549 00936 00893 41788

Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 00936 00893 41788
Link ID 40964 Msg Number 000 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01056 06549 00936 00893 41788
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 40604 00000 00000 01248 06549 00936 00893 41788
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 00936 00893 41788
Link ID 40989 Msg Number 124 : Msg Type 07145 : Group Count (?) 4 07836 00000 00016 01264 14741 00936 04989 62268
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 00936 00893 41788
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 00936 00893 41788
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 00936 00893 41788
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 04113 00512 00617 00552
Link ID 40989 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00016 01264 00959 02025 02047 01917
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 00936 00893 41788
Link ID 40964 Msg Number 020 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 00096 00133 00424 00381 00316
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 00936 00893 41788
Link ID 41021 Msg Number 124 : Msg Type 07145 : Group Count (?) 4 07836 00000 00016 01264 15285 01960 06013 63292
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 00936 00893 41788
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 00936 00893 41788
Link ID 40988 Msg Number 060 : Msg Type 08187 : Group Count (?) 12 07868 00784 00000 01248 06549 00936 00893 41788
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 00936 00893 41788
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 00936 00893 41788
Link ID 40964 Msg Number 016 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 00096 00128 00392 00308 00284
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 00936 00893 41788
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 00936 00893 41788
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 00936 00893 41788
Link ID 61454 Msg Number 158 : Msg Type 08189 : Group Count (?) 134 08158 00008 00128 00624 07626 35804 02870 63902
Link ID 00028 Msg Number 060 : Msg Type 07136 : Group Count (?) 4 07692 00000 00000 01248 06549 00936 00893 41788
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 00936 00893 41788
Link ID 00048 Msg Number 000 : Msg Type 00097 : Group Count (?) 0 00000 00000 00000 03174 00675 00008 00000 17713
Link ID 00008 Msg Number 040 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 00192 08763 01601 05867 22377
Link ID 00008 Msg Number 040 : Msg Type 00961 : Group Count (?) 0 03608 00000 00000 00192 00017 00512 00617 00808
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 00936 00893 41788
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 00936 00893 41788
Link ID 40972 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 00224 06549 00936 00893 41788
Link ID 40988 Msg Number 060 : Msg Type 16377 : Group Count (?) 12 16060 04352 00000 01248 06549 00936 00893 41788
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06559 00937 00895 41789
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 00936 00893 41788
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 00936 00893 41788
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 00936 00893 41788
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 00936 00893 41788
Link ID 57372 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 04224 00392 00308 00284
Link ID 40990 Msg Number 190 : Msg Type 07137 : Group Count (?) 4 07836 00000 00128 01264 07647 35836 02943 64446
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06655 03068 02943 41918
Link ID 61501 Msg Number 124 : Msg Type 08185 : Group Count (?) 4 07836 00000 00016 03312 06549 00936 00893 41788

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Link ID 45084 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 00936 00893 41788
Link ID 61501 Msg Number 124 : Msg Type 07163 : Group Count (?) 13 08120 00401 00000 03312 12703 01824 06139 59257
Link ID 40972 Msg Number 040 : Msg Type 07145 : Group Count (?) 4 07836 00000 00016 03312 06549 00940 00893 45836
Link ID 61501 Msg Number 124 : Msg Type 08184 : Group Count (?) 12 16060 00273 00000 03312 08763 01601 05867 18281
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06533 00808 00893 41789
Link ID 32796 Msg Number 028 : Msg Type 07137 : Group Count (?) 4 07836 00000 00000 01248 06613 03070 02943 35775
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 00936 00893 41788
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 00936 00893 41788
Link ID 40988 Msg Number 060 : Msg Type 05097 : Group Count (?) 4 07836 00000 00000 01248 06453 02041 02047 42857
Link ID 61462 Msg Number 190 : Msg Type 08189 : Group Count (?) 134 08158 00008 00128 00240 01247 35292 02356 31678
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06557 00929 01023 41853
Link ID 40988 Msg Number 060 : Msg Type 05097 : Group Count (?) 4 07836 00008 00000 01760 06288 00872 00893 41516
Link ID 28700 Msg Number 060 : Msg Type 16383 : Group Count (?) 12 07933 04369 00000 03296 06549 00936 00893 41788
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 00936 00893 41788
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 00936 00892 41788
Link ID 40988 Msg Number 060 : Msg Type 15337 : Group Count (?) 4 32412 00000 00000 01248 06559 01020 01023 43006

Link ID 40988 Msg Number 060 : Msg Type 07017 : Group Count (?) 4 03740 00512 00000 01248 06545 00936 00893 41788
Link ID 40988 Msg Number 124 : Msg Type 07145 : Group Count (?) 4 07836 00000 02192 03824 15035 00193 04587 29545
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06559 01000 00893 58172
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 00936 00893 58172
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06548 00936 00292 41764
Link ID 40988 Msg Number 060 : Msg Type 08169 : Group Count (?) 4 07836 04096 00000 01248 06549 00936 00893 41788
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 00936 00893 33596
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00000 00000 01248 06549 00936 00893 41788
Link ID 57404 Msg Number 060 : Msg Type 07145 : Group Count (?) 4 07836 00001 00000 01248 06529 00936 00884 41788

14522 kHz,17-05, 0800 UTC, FSK 200/1000

Link ID 12346 Msg Number 202 : Msg Type 07145 : Group Count (?) 64 26160 02097 00825 26230 56560 03792 32866 62573
Link ID 45115 Msg Number 203 : Msg Type 07145 : Group Count (?) 64 26160 02097 00895 26238 52208 07840 04293 63946
Link ID 45114 Msg Number 202 : Msg Type 07145 : Group Count (?) 64 26160 02097 00891 26230 65008 36560 32866 62573
Link ID 45700 Msg Number 085 : Msg Type 01329 : Group Count (?) 226 39961 25449 35810 27761 44438 40054 56874 39323
Link ID 45114 Msg Number 202 : Msg Type 03049 : Group Count (?) 64 26160 02097 00889 26226 32160 35520 32770 61453
Link ID 04152 Msg Number 002 : Msg Type 07145 : Group Count (?) 64 26160 02097 00811 26166 65008 36560 32866 62573
Link ID 04152 Msg Number 136 : Msg Type 07145 : Group Count (?) 64 26161 02099 00634 17012 65008 40656 32866 29805
Link ID 45114 Msg Number 194 : Msg Type 07145 : Group Count (?) 64 26160 02097 00891 26230 61728 33792 00032 00060
Link ID 45114 Msg Number 202 : Msg Type 08169 : Group Count (?) 64 28208 06193 00891 26230 65008 36544 32770 62509
Link ID 45114 Msg Number 202 : Msg Type 07145 : Group Count (?) 64 26160 02097 00891 26230 65008 36560 32866 62573

12193 kHz, 17-05, 0810 UTC, FSK 200/1000

Link ID 45114 Msg Number 202 : Msg Type 07145 : Group Count (?) 64 26160 02097 00891 26230 65008 36560 32866 62573
Link ID 45114 Msg Number 202 : Msg Type 07145 : Group Count (?) 64 26160 02097 00891 26230 65008 36560 32866 62573
Link ID 45114 Msg Number 202 : Msg Type 07145 : Group Count (?) 64 26160 02097 00891 26230 65008 36560 32866 62573
Link ID 45115 Msg Number 207 : Msg Type 07145 : Group Count (?) 64 26160 02097 00891 26358 65520 36560 32866 62573
Link ID 45114 Msg Number 202 : Msg Type 07145 : Group Count (?) 64 26160 02097 00891 26230 65520 40688 37095 65007
Link ID 45114 Msg Number 202 : Msg Type 07145 : Group Count (?) 64 26160 02097 00891 26230 65008 36560 32866 62573
Link ID 45114 Msg Number 202 : Msg Type 07145 : Group Count (?) 64 26160 02097 00891 26230 65008 36560 32866 62573
Link ID 45114 Msg Number 202 : Msg Type 07145 : Group Count (?) 64 26160 02097 00891 26230 65008 36560 32866 62573
Link ID 45114 Msg Number 202 : Msg Type 07145 : Group Count (?) 64 26160 02097 00891 26230 65008 36560 32866 62573
Link ID 45114 Msg Number 202 : Msg Type 07145 : Group Count (?) 64 26160 02097 00891 26230 65008 36560 32866 62573
Link ID 45114 Msg Number 202 : Msg Type 07145 : Group Count (?) 64 26160 02097 00891 26230 65008 36560 32866 62573
Link ID 45114 Msg Number 202 : Msg Type 07145 : Group Count (?) 64 26160 02097 00891 26230 65008 36560 32866 62573
Link ID 45114 Msg Number 202 : Msg Type 07145 : Group Count (?) 64 26160 02097 00891 26230 65008 36560 32866 62573
Link ID 45114 Msg Number 207 : Msg Type 07145 : Group Count (?) 64 58928 02097 00895 26235 32624 53232 16624 29284
Link ID 45114 Msg Number 202 : Msg Type 07145 : Group Count (?) 64 26160 02097 00891 26230 65008 36560 32866 62573
Link ID 45114 Msg Number 202 : Msg Type 07145 : Group Count (?) 64 26160 02097 00891 26230 65008 36560 32866 62573
Link ID 45114 Msg Number 202 : Msg Type 07145 : Group Count (?) 64 26160 02097 00891 26230 65008 36560 32866 62573
Link ID 45114 Msg Number 202 : Msg Type 07145 : Group Count (?) 64 26160 02097 00891 26230 65008 36560 32866 62701
Link ID 61498 Msg Number 202 : Msg Type 08171 : Group Count (?) 65 28272 06515 01915 61046 65008 36560 32866 62573

11095 kHz, 20-05, 2310 UTC, FSK 200/1000

Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 147 65224 29601 34765 33106 00624 00417 35271 16413
Link ID 57372 Msg Number 060 : Msg Type 07161 : Group Count (?) 147 65224 29617 34253 33106 00752 04081 35279 17183
Link ID 41118 Msg Number 190 : Msg Type 07145 : Group Count (?) 147 65224 29601 34799 50555 01016 04081 52719 27423
Link ID 61757 Msg Number 253 : Msg Type 08187 : Group Count (?) 147 65241 62451 57295 50166 02032 08179 35791 51007
Link ID 61468 Msg Number 060 : Msg Type 07081 : Group Count (?) 147 65096 28705 34253 33106 00624 04001 35271 17181
Link ID 40988 Msg Number 052 : Msg Type 08189 : Group Count (?) 147 65256 62449 34244 33136 00048 01921 02119 00269

9128 kHz, 20-05, 2320 UTC, FSK 200/1000

Link ID 61501 Msg Number 125 : Msg Type 07145 : Group Count (?) 147 65480 29601 40911 33782 02032 08160 35267 50972
Link ID 32796 Msg Number 060 : Msg Type 02528 : Group Count (?) 129 65096 12544 01485 00338 00624 04001 35271 17181
Link ID 40988 Msg Number 060 : Msg Type 07145 : Group Count (?) 147 65224 29601 34253 33106 00624 04001 35271 17181
Link ID 57661 Msg Number 125 : Msg Type 07147 : Group Count (?) 147 65225 29685 38863 33778 02036 08183 36847 51071

16174 kHz, 24-05, 2116 UTC, FSK 200/1000

Link ID 32785 Msg Number 000 : Msg Type 07145 : Group Count (?) 4 43412 00000 00000 00578 33815 02412 00821 01224
Link ID 32821 Msg Number 002 : Msg Type 07145 : Group Count (?) 4 43412 00000 01024 01734 33847 35116 00893 09368

Link ID 32817 Msg Number 002 : Msg Type 07145 : Group Count (?) 4 43412 00000 00000 01734 32773 34828 00885 09352

X06 logs

enigma	frequency	date	UTC	remarks
X06	9106	8-5-2014	1528	Mazielka. Sequence: 564213
X06	10372	12-5-2014	0840	Mazielka. Sequence: 431625
X06	10649	26-5-2014	0901	Mazielka. Sequence: 156234
X06	11025	13-5-2014	1038	Mazielka. Sequence: 612534
X06	12100	13-5-2014	1045	Mazielka. Sequence: 612534
X06	12157	6-5-2014	0750	Mazielka. Sequence: 165423
X06	12207	26-5-2014	1404	Mazielka. Sequence: 215346
X06	13420	13-5-2014	0744	Mazielka. Sequence: 534216
X06	13420	26-5-2014	0757	Mazielka. Sequence: 534216 preceded by CROWD-36
X06	13510	23-5-2014	0452	Mazielka. Sequence: 216435
X06	13510	27-5-2014	1116	Mazielka. Sequence: 612534
X06	14501	16-5-2014	1002	Mazielka. Sequence: 361245
X06	14650	6-5-2014	0849	Mazielka. Sequence: 215346
X06	14650	8-5-2014	1528	Mazielka. Sequence: H3E, 1330-1347 UTC: 215346
X06	14970	8-5-2014	1528	Mazielka. Sequence: H3E, 1335-1348 UTC: 216354
X06	16115	7-5-2014	0727	Mazielka. Sequence: 215346
X06	16115	8-5-2014	1528	Mazielka. Sequence: H3E, 1348-1400 UTC: 215346
X06	16115	26-5-2014	1521	Mazielka. Sequence: 215346
X06	16117	12-5-2014	0936	Mazielka. Sequence: 463125
X06	16188	4-5-2015	0753	Mazielka. Sequence: 325614
X06	17430	7-5-2014	0955	Mazielka. Sequence: 215346
X06	18177	6-5-2014	0807	Mazielka. Sequence: 164253
X06	18177	6-5-2014	0809	Mazielka. Sequence: 164253
X06	18197	18-5-2014	1007	Mazielka. Sequence: 645321
X06	18206	6-5-2014	0924	Mazielka. Sequence: 246531
X06	18206	6-5-2014	0926	Mazielka. Sequence: 246531
X06	18206	20-5-2014	0924	Mazielka. Sequence: 246531
X06	18575	15-5-2014	1243	Mazielka. Sequence: 352416
X06	18660	14-5-2014	1101	Mazielka. Sequence: 621543
X06	19405	15-5-2014	1235	Mazielka. Sequence: 352416
X06	19611	23-5-2014	1006	Mazielka. Sequence: 256134
X06	20334	6-5-2014	0800	Mazielka. Sequence: 164253
X06	20335	6-5-2014	0759	Mazielka. Sequence: 613524
X06	20605	23-5-2014	0958	Mazielka. Sequence: 256134
X06b	10500	27-5-2014	1116	Mazielka. Sequence: 1-----
X06b	14538	4-5-2014	1829	Mazielka. Sequence: 1-6
X06b	14538	4-5-2014	1840	Mazielka. Sequence: 1-6

M42 logs

frequency	date	UTC	remarks	mode
5787	1-5-2014	1920	Russian diplo 8 00	FSK 200/500
5787	29-5-2014	1921	Russian Gov/Intel, null message 00000++++++++++162)5761	Baudot 187.5/500
8118	1-5-2014	1910	Russian diplo 8 00	FSK 200/500
8118	29-5-2014	1911	Russian Gov/Intel, null message 00000++++++++++162)5761	Baudot 187.5/500
8121	6-5-2014	0632	Russian diplo, i.p. 51080 27238 .... RPT = 11100 60102 45654 06056 01009 = MHWPW DJTPL WSGGZ SDWVE BESXX	CW
8121	6-5-2014	0702	Russian diplo: UHA QSY 13382.	CW
8121	6-5-2014	0706	Russian diplo: UHA NIL SK	CW

frequency	date	UTC	remarks	mode
9035	22-5-2014	1757	Russian diplo	Serdolik MFSK/40/1500
9124	15-5-2014	0650	Russian Gov/Intel. 5FG with =50= separator	Baudot 50/500
9128	6-5-2014	2320	Russian diplo/intel. Messages on links 43548, 41020, 57769, 40988, 40964, 16681, 26862, 40990, 62604	FSK 200/1000
9128	13-5-2014	2320	Russian diplo/intel. Messages on links 45084, 61501, 40972, 40988, 32796, 61462, 28700, 57404	FSK 200/1000
9128	20-5-2014	2320	Russian diplo/intel. Messages on links 61501, 32796, 40988, 57661	FSK 200/1000
9140	14-5-2014	0705	RUU: Russian Gov.	CW/RUS-ARQ 100/500 áá
9140	15-5-2014	0717	RRF30 DE RUU70 ZHC?	CW
10346	7-5-2014	1906	Multifigure groups 16323801323443583 =8878 234286008613860131=7849	Baudot 187.5/500
10767	1-5-2014	1900	Russian diplo 8 00	FSK 200/500
10767	29-5-2014	1901	Russian Gov/Intel, null message 00000++++++++++162)5761	Baudot 187.5/500
11078	27-5-2014	1857	Russian diplo	Serdolik MFSK/40/1500
11095	6-5-2014	2310	Russian diplo/intel. Messages on links 40988, 40972, 53254, 58510, 61470, 40984, 15887	FSK 200/1000
11095	13-5-2014	2310	Russian diplo/intel. Messages on links 40988, 00028, 61470, 40980, 40964, 40989, 41021, 61454, 40972, 57372, 40990	FSK 200/1000
11095	20-5-2014	2310	Russian diplo/intel. Messages on links 40988, 57372, 41118, 61757, 61468	FSK 200/1000
12062	10-5-2014	1239	K4MT/NT9P ne. "=x00=" separators with CW opchat "cfm qru? k", "zvp k", "bk qrv k", "k"	Baudot 50/500
12193	17-5-2014	0810	Russian diplo/intel. Messages on links 45114, 45115, 61498	FSK 200/1000
12210	30-5-2014	0727	RWB5: Russian PtP station. Call up: RAZ2 DE RWB5 QSA?	Baudot 50/500
12219.5	15-5-2014	0725	Russian diplo	CROWD-36
13376	10-5-2014	1220	Russian diplo 6 55	FSK 200/500
13377	6-5-2014	2300	Russian diplo/intel. Messages on links 07958, 13366, 57372, 30260, 40990, 61468, 44572, 40991, 45084, 40988, 40982	FSK 200/1000
13377	13-5-2014	2300	Russian diplo/intel. Messages on links 13366, 31870, 41021, 40988, 61614, 41054, 00028, 40984, 57372, 08220, 62653, 61501, 40989	FSK 200/1000
13377	20-5-2014	2300	Russian diplo/intel	FSK 200/1000
13382	6-5-2014	0702	Russian diplo: RPK QSA4 QSL 2 NIL	CW
13382	6-5-2014	0706	Russian diplo: RPK SK	CW
14376	20-5-2014	0803	Russian Gov/Intel.	MFSK 36-tone
14522	17-5-2014	0800	Russian diplo/intel. Messages on links 12346, 45115, 45114, 45700, 04152	FSK 200/1000
14655.5	28-5-2014	1256	Russian diplo	CROWD-36
14880	5-5-2014	0230	Russian diplo/intel. Messages on link 33379	FSK 200/1000
14880	6-5-2014	0230	Russian diplo/intel. Messages on link 53354	FSK 200/1000
14880	7-5-2014	0230	Russian diplo/intel. Messages on links 04132, 08250	FSK 200/1000
14880	8-5-2014	0230	Russian diplo/intel	FSK 200/1000
15827	10-5-2014	1210	Russian diplo 6 55	FSK 200/500
16121	30-5-2014	0749	Russian diplo	CROWD-36
16166	26-5-2014	0832	Russian diplo	Serdolik MFSK/40/1500
16174	24-5-2014	2116	Russian diplo/intel. Messages on links 32785, 32821, 32817	FSK 200/1000
16240.5	8-5-2014	1227	Russian diplo	CROWD-36
16320	5-5-2014	0150	Russian diplo/intel. Messages on link 41018	FSK 200/1000
16320	6-5-2014	0150	Russian diplo/intel. Messages on links 13366, 41018, 28547, 26374	FSK 200/1000
16320	7-5-2014	0150	Russian diplo/intel. Messages on links 07227, 41008, 41018, 57471, 58495, 08250	FSK 200/1000
16320	8-5-2014	0150	Russian diplo/intel. Messages on link 14600	FSK 200/1000

frequency	date	UTC	remarks	mode
16352	22-5-2014	1450	Russian gov.	Baudot 50/500
17431	10-5-2014	1200	Russian diplo 6 55	FSK 200/500
18436	8-5-2014	1440	Russian Gov. K4MT/NT9P net, startup/wakeup sequence, decoding as "bzl26"	FSK 50/500
19119	8-5-2014	1440	Russian Gov. K4MT/NT9P net, startup/wakeup sequence, decoding as "bzl26"	FSK 50/500
19363	5-5-2014	0835	Russian Gov/Intel.	Baudot 75/500
19363	5-5-2014	0838	Russian Gov/Intel. Ops chat: QRG OD GU AF TER QSO QTR	CW

XP family

17462/16114/14828 kHz, 02-05, 1900/1920/1940 UTC, XPA2
04359 00071 83874 73863 98523 70172 11259 15555 00875 87316
63168 68703 00037 49038 92102 91765 66143 85443 73269 98397
51290 20187 81547 88722 08017 59392 66384 49612 14826 64305
19597 43978 53360 81623 04453 12180 67581 89831 91382 36907
18119 57038 62163 84979 43875 14469 96329 23784 24138 27842
42227 93364 43610 36782 85573 46491 37071 23018 35383 06145
78040 58139 76571 40892 49916 07617 66240 07150 86538 01949
91117 61606 70961 13611
End Tone

17462/16114 kHz, 09-05, 1900/1920 UTC, XPA2
03738 00001 00000 10140

10868/12168 kHz, 10-05, 0600/0620 UTC, XPA
RYRYRY 813 813 813 000

14828 kHz, 16-05, 1940 UTC, XPA2
07177 00097 07374 36892 31306 86638 95643 12419 34429 60270
61933 65606 53732 01954 95012 56471 37737 97456 27581 90692
54100 44358 17266 13308 21721 70533 24123 97515 39655 80877
04076 77038 81237 45421 86451 49369 29640 94210 41131 00101
18437 46339 60362 95530 30939 21058 62069 94645 23777 21028
25902 02279 71921 90779 87905 26376 16865 64590 41702 75658
57720 72560 11549 98822 27377 44578 73718 38826 66092 78880
00295 68533 8001 2944 5526 3622 33744 2223 8769 5886 517 47
3066 54144 90483 33003 30534 10022 99257 85589 60476 11218
82485 68800 43398 64333 63892 30266 08086 60730 End Tone

10868/12168/13368 kHz, 17-5, 0600/0620/0640 UTC, XPA
RYRYRY 813 813 813 1 813 813 813 1 813 813 813 1
08209 00117 87313 70587 50559 00371 59400 62681 06453 72562 78922 82394 73628 00131 77839
54166 91438 06198 81406 56522 26007 79988 19338 81262 19826 33543 29828 69454 78206 45809
50788 72307 60844 92806 40223 26070 40223 22039 60819 15584 21653 57657 27298 42962 50825
32686 91704 84758 86313 58832 19266 03959 90569 68298 44036 63121 64020 82349 93890 15334
60703 98858 43900 78797 57064 74600 39579 93577 75284 66443 32122 60595 21919 93145 93291
85045 97932 64870 11624 77954 68477 42389 90221 09283 77934 48294 65150 55283 88089 31844
32846 32605 51712 06303 72789 44909 85903 00878 73808 14729 78330 31364 43685 37015 89720
99791 73886 53662 94948 47186 96149 87195 63620 18134 32154 49878 60470 80586 52680 52373

16314 kHz, 18-05, 1500 UTC, XPA2
03600 00235 42364 53273 50258 08792 66819 57558 07696 09857 88292 65795 14544 04510 51622
78710 77522 82942 79871 76852 48165 48573 60629 10748 01125 97842 49663 38567 38428 24297
08490 23804 67678 04744 94058 94588 80618 05255 41631 89342 1956522512945664 54421 59482
88028 87959 06646 56988 68604 09154 08807 42552 68468 96044 81671 44459 63677 02842 31134
66136 86807 77854 66926 19378 94629 55319 41144 50021 69675 81983 41829 63550 76646 04578
99790 71983 86705 62478 77549 49721 61890 95846 25455 82239 81529 44686 80942 45097 87470
20340 18501 15242 91110 41015 65138 41454 67516 75117 20563 41908 81563 46364 34341 15855
91549 18174 87135 24078 20309 41099 76419 43044 38201 24102 12147 47987 17663 97002 07063
15571 11933 69505 09420 72649 60965 60010 51512 22792 31356 20523 56550 73512 65757 71292
54280 90445 67047 54829 42850 13848 92094 01018 42084 37980 90668 55856 47462 81565 30487
04983 67047 98566 42673 39252 32588 86781 16909 54614 75554 69624 46700 38743 76404 14668
24993 04439 28491 93386 61045 46210 59285 91454 92335 60755 4418 34580 71178 18866 16444
51338 94960 51068 91767 16749 18264 95617 04498 96008 30459 58041 25596 98581 06499 52659
26222 59742 22872 25844 78304 16520 26161 73057 56516 40796 19535 46392 80499 02665 87150
11678 90557 85419 53146 90912 33757 75005 75667 00630 57683 39611 98349 23663 45240 86432
16138 65615 66458 68516 24879 73430 55727 16704 60929 77995 19099 53862 37027

14538/13538/12138 kHz, 18-05, 2000/2020/2040 UTC, XPA2
01765 00087 21416 54110 72660 84109 40027 72008 40109 78255 37867 07183 71632 99200 88604
05167 45042 69071 58589 26157 70720 59646 78695 74934 49082 52939 51768 33029 50279 20181
47267 90576 78153 86486 30141 18033 07673 29983 46052 05115 97636 01460 99618 39834 39616
82578 42330 84106 01817 45120 32987 73898 15082 29268 64469 93143 12179 06433 63422 46467
60912 97638 76362 88533 01266 51812 30708 39851 58664 95228 50156 85957 93503 11648 82451
60966 01031 25063 38491 52059 10799 68755 26679 90423 04990 55506 93674 15537 81287 55241

14514 kHz, 30-05, 1540 UTC; XPA2
08441 00091 72870 20773 58862 04712 97836 30407 72629 96135
45313 95891 89926 76239 32191 13303 22020 61957 08707 62495
49715 33592 57643 68522 08505 89045 94036 09272 43860 63173
38930 91014 48447 61130 55918 46968 26394 45354 52867 45383
55850 76801 66841 31385 34976 62509 16858 91910 51131 73373
41171 55954 46359 03017 69492 13418 05657 09435 96436 10350
42403 55962 20701 36339 38251 02852 79172 24778 48234 77295
29545 68067 80602 69290 85448 29712 3588 9222 72379 07507
07496 7860606666 66005 81978 53697 63325 04761 87358 06226
08279 74955 00686 05704
End Tone

16114 kHz, 31-05, 1919 UTC: XPA2
06213 00001 00000 10140

Egyptian diplomatic stations

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

frequency	date	UTC	remarks
16161.7	6-5-2014	1510	Egyptian diplo. Just got the end.
16222	21-5-2014	1632	MFA Cairo clg QQTX Egyptian Embassy Prague
16237	21-5-2014	1326	MFA Cairo clg QQTP Egyptian Embassy Moscow
17415	6-5-2014	2002	99910: MFA Cairo ATU-A traffic with IPTX Havana followed by Codan chirp call to 55501 from 99910
19123.7	14-5-2014	1124	Egyptian diplo clg SSTE
19251.7	13-5-2014	1422	MFA Cairo selcals RCVB Washington embassy

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North Korean diplomatic stations

frequency	date	UTC	remarks	mode
12338.4	30-5-2014	0707	North Korean Diplo	DPRK-ARQ 600/600
13778.4	26-5-2014	0706	North Korean Diplo	DPRK-ARQ 600/600
14442.5	31-5-2014	0533	North Korean Diplo	DPRK-ARQ 600/600
16118.5	27-5-2014	0735	North Korean Diplo	DPRK-ARQ 600/600
16323.5	27-5-2014	0744	North Korean Diplo	DPRK-ARQ 600/600
18035	22-5-2014	1057	North Korean diplo	DPRK-ARQ 600/600
18322	29-5-2014	0734	North Korean diplo	DPRK-ARQ 600/600
18323.4	29-5-2014	0749	North Korean Diplo	DPRK-ARQ 600/600
18448.5	15-5-2014	0540	North Korean diplo.	DPRK-ARQ 600/600
19818.5	15-5-2014	0556	North Korean diplo.	DPRK-ARQ 600/600

UTILITY ROUND-UP

Unid stations

3828.4 kHz, 05-05, 2000 UTC, CW, copied by Jim
Unid i.p. ... FOR 433201993 FM 357027 FOR 433201 ... FM 572602 FOR 385027 K ...

4061 kHz, 12-05, 1902 UTC, CW, simplex net, copied by Andre
VG44 QTC 2 05 00/BY/49/05/080/14/ NW NW =====
WWPMZ/08/WWOJX/ NW NW /080/10/BBONK/3/STOP/AAGYX QSL ??? K
AR AR

4061 kHz, 13-05, 0302 UTC, CW, simplex net, copied by Andre
VG44 QTC 0440/BY/47/05/084/11/STOP/WWOJX/330/04/WWPMZ/05/BBONK
AR AR

Armenian Air Defense

Armenian Military branches:
Ground Forces, Air Force and Air Defense;
Nagorno-Karabakh Republic: Nagorno-Karabakh Self-Defense Force (NKSDF)

In November 2013, Vladimir Putin announced that Russia is planning to strengthen the integrated air defense system with Belarus and set about forming similar regional systems with Armenia and Kazakhstan. This includes not only missile bases but Russia will also modernize and extend Armenia's radar systems. This allows the Armenian air defense units to have greater radar coverage, according to Regnum news agency.

Another interesting item from April 2012 was published by Arka News Agency:
YEREVAN, April 13. /ARKA/. Russia's largest defense holding Concern PVO Almaz-Antey will sign a contract with the Armenian side on repair of air defense weapons, Valery Semerikov, deputy secretary general of the Russia-led Collective Security Treaty Organization (CSTO) said in Yerevan today after a meeting of CSTO inter-agency commission. He said the contract will most likely be signed in the second quarter of 2012.

The unid radio stations that we copied on 6450 and 3790 kHz in April and May are most probably the Armenian Air Defense Forces. The net was first reported in 7 Dec 2005 on 5580 kHz.

I guess that the messages that we hear are radar plots. The messages are very similar to those of the Russians. Armenia is an ex-Soviet Republic and now CSTO member that used the old Soviet air defense systems which has been upgraded by the Russians, so it is very likely that they are still using the same systems as the Russians do.

I am confident that the messages are live transmissions, although they sound robotic they really are live. The transmissions consist of short messages, read twice. Operators are both male and female. They are located in a noisy room. You can often hear lots of background noise and voices. Sometimes weak outstations respond to the messages. Possibly mobile/field units.

As far as we know the net is 24/7 on the air.

Sample messages translated from the original Armenian recordings:
071 to 071 97 in 64 after 12 minutes
073 to 073 92 in 75 after 12 minutes
070 to 070 35 in 56 after 12 minutes
071 to 071 96 in 69 after 13 minutes
072 to 072 475, 35 in 21 after 13 minutes
070 to 070 45 in 33 after 13 minutes
071 to 071 190 after 13 minutes
072 to 072 35 in 28 after 13 minutes
073 to 073 95 in 38 after 14 minutes

> 071 to 071 is probably the track number
> 97 in 64 is likely bearing and range
> after 12 minutes is likely the time

Compare this to the Russian basic bearing/range Air Defense reports like:

071-aya 97 na 64 za 12 minut
"071-aya" is the target number, often repeated twice
"na" in Russian can mean in, on, or to
"za" in Russian can mean following, after, at, for

You see that they are very similar.

I have added several recordings of this net to the UDXF website. For now listed as Unid Armenian Net.
http://www.udxf.nl/uc5.html

I thank everyone who has helped me with this puzzle. Your help is greatly appreciated.

Old logs:
5580 kHz, 2005-09-07, 0154 UTC
5580 kHz, 2006-02-06, 2240 UTC
5580 kHz, 2010-01-15, 1615 UTC
5580 kHz, 2010-01-16, 0430 UTC
5580 kHz, 2011-01-12, 0520 UTC
5580 kHz, 2012-12-22, 1613 UTC
5580 kHz, 2012-12-22, 1642 UTC
5580 kHz, 2013-02-04

Recent logs:
6450 kHz, 13-4, 1954 UTC
6450 kHz, 17-04, 1955 UTC
6450 kHz, 18-04, 1942 UTC
6450 kHz, 19-04, 1915 UTC
6450 kHz, 30-04, 1642 UTC
3790 kHz, 02-05
6450 kHz, 04-05, 1639 UTC
6450 kHz, 06-05, 1842 UTC
3790 kHz, 10-05, 2118 UTC
6450 kHz, 12-05, 1724 UTC
3790 kHz, 13-05, 2036 UTC
3790 kHz, 15-05, 2023 UTC
6450 kHz. 16-05, 1633 UTC
6450 kHz, 17-05, 1400 UTC
6450 kHz, 20-05, 1908 UTC

RUSSIAN MILITARY TRANSCRIPTS

Thanks to the following contributors: Jim. Andre, Ron, JPL, Tom, Topol, Avare, Les, Antonio

RMv/RNv/RNAv/RAv
Russian military stations

Frequency: various
Mode: USB / voice

RNAv – Russian Naval Air transport

11354 kHz, 01-05, 1221 UTC Priboj w/47573 (Russian Navy AN-26) reporting ETA landing at Rostov 1243 UTC. Priboj relays info to Kroket.
11354 kHz, 19-05, 1150 UTC Priboj w/75105 (Russian Navy AN-26) closing down comms.

11354 kHz, 12-05
1107 Priboj w/75105 (Russian Navy AN-26) reporting landing at (missed) at 1107 UTC.
1129 Priboj w/26946 (Russian Navy AN-26) reporting landing at Eisk at 1125 UTC w/3000 kgs fuel.

1244 Priboj w/47573 (Russian Navy AN-26) reporting ETA landing at Eisk at 1258 UTC. Priboj relays flt info to Kroket.
1400 Priboj & Kroket w/47572 (Russian Navy AN-26) reporting departure from Kacha at 1345 UTC w/3400 kgs fuel and next is landing at Anapa. At 1555Z reports to Priboj departure from Anapa at 1545 UTC w/3500 kgs fuel and ETA landing at Rostov 1655 UTC. Priboj relays info to Kroket.
1420 75105 trying to contact Priboj & Novator w/no response. At 1410Z 75105 w/Novator reporting position 5130N/4025E alt 8500 mtrs w/17 tons fuel. Kroket relays to Priboj and Priboj relays to Novator. At 1456Z 75105 reports passing Moscow at 8500 mtrs w/15000kgs fuel. At 1620Z Kroket relays to Priboj that 75105 ETA landing at Severomorsk is 1750 UTC.
1420 Priboj w/08012 (Russian Navy AN-12) reporting position 5444N/3513E at 1418 UTC & alt 7200 mtrs w/9300 kgs fuel and ETA landing at Kursk 1515 UTC.
1538 Priboj w/26944 (Russian Navy AN-26) reporting departure from Butulinirovka at 1530 UTC w/5000 kgs fuel and ETA Kacha is 1850 UTC. At 1648Z reports passing Rostov at 1647 UTC w/3500 kgs fuel at alt 5800 mtrs.

RAv - Russian Air Force
11360. kHz, 01-05
1822 Korsar w/76?571? (IL-76MD) reporting departure from Tver at 2230 MSK w/87 tons fuel.
1917 Korasr w/76604 (IL-76MD) reporting 2 hrs into flt passing point (missed) w/27 tons fuel.
11360.0 1352Z Korsar w/76533 (IL-76MD) reporting departure from Chkalovskij at 1730 MSK w/48 tons fuel--next is Kaliningrad. At 1432Z 76533 report 1 hour into flt at alt 2800 mtrs w/38 tons fuel. At 1530Z reports 2 hours into flt at 2800 mtrs w/30 tons fuel. (2014/05/12 RP-MD)

11360 kHz, 12-05
1415 Korsar w/76549 (IL-76MD) reporting departure from Olenya at 1800 MSK alt 2700 mtrs w/51 tons fuel--next is Shaykovka.
1512 Korsar w/78776 (IL-76) reporting departure from Tver at 1900 MSK passing point (missed) w/41 tons fuel.

11360 kHz, 16-05
1156 76551 (IL-76MD) calling Korsar w/no response. At 1218Z answered by Proselok. 76551 asks for info to be relayed to Klarnetist reporting departure from (blocked) at 1540 MSK w/40 tons fuel. Note: Two Russian women chatting (too fast for me to understand) on freq blocking everything. At 1245Z 76551 tries to contact Korsar but has trouble so is answered by Proselok. 76551 reports 1 hour into flt w/ (blkd) tons fuel and passing point MANOK. Proselok reports info to Korsar.
1209 Chkalovskij w/78850 (sounds like) then fades out to unreadable.
1222 Korsar calling 76724 (IL-76MD) w/no response.
1225 Korsar w/76718 (IL-76MD) reporting departure from Kvartet (Russian AB Taganrog) at 1620 MSK at alt 10,000 mtrs w/30 tons fuel. Landing at UTP (sounds like).
1227 11360.0 1227Z Korsar w/76762 (IL-76MD) reporting departure from Omsk North at (missed) and next is Buntar (Russian AB Orenburg). 76762 requests info be relayed to Proselok.

11360 kHz, 19-05
1124 Korsar w/unheard ground station relaying flt info for 76714 (IL-76MD)--1 hour into flt w/31 tons fuel.
1358 Korsar w/94291 (AN-12KR) reporting departure from Chkalovskij w/12 tons fuel and destination is Dorozhnij (Russian AB Rostov-na-Donu).

M32
Russian/CIS Military CW Stations

10873 kHz, 01-05
0552 ZZU ZZT 9308 9308 K
0553 ZZU 9143 9143 K

9143 kHz, 01-05, 0554 UTC	VVV VVV VVV ZKM ? K and transmission of letters (with Cyrillic letters)
10535 kHz, 01-05, 0828 UTC	XXX XXX WEGI WEGI 31189 39373 GENRI 1133 0218 (repeated 2 times)
12606 kHz, 01-05, 0841 UTC	XXX WEGI 63874 IONPOGEN 1493 6225 (repeated 2 times)
7964 kHz, 01-05, 1230 UTC	D93D QSO with outstations MRFI IU5X KGIO 3N1T LRYJ T19W
3348 kHz, 01-05, 1837 UTC	MR8Z, comms checks with at least 8SWE V68J NKQS 9OSK BATA PTII.

13404 kHz, 01-05

0600 ZXAU 437 23 1 0955 437 = 396 = DDDDD DCGZV VM... JNOJB OOMMW
0610 A8VZ de 2VSO ZEK ZKI K
0733 ZXAU 869 25 1 1130 869 = 396 = DDDDD ÔVLRV DIICI

14376 kHz, 01-05

0605 8ULS R 437
0735 BZ4P R 869
0736 9POC R 869
0736 A8VZ R 869
0737 V4TH R 869
0737 8ULS R 869
0737 9W2V R 869

5514 kHz, 01-05

1803 1N3C =NKVAH K
1811 NTBP de 1N3C K
1814 1OWN de 1N3C K
1817 1N3C = 406 27 1 2200 406 = 750 = ZAGÛR OKÛLD CFLPÂ KMQUT WTMSC ..... PÂPWT RPT AL QLN K

5514 kHz, 02-05

1900 9NWB QTC 335 75 2 2300 335 = 145 = DVGHG KVRDH ACZQ+ ÂIÛQL ÔDDQI LCOLE .....
1911 1N3C = DCWIF K
1905 1N3C In traffic 25-group msg: CZQCh älüQL ... ZUTäO DCWIF PWPWT RPT AL QLN K. RPT K. 1N3C ZUTäO K. R K. 1ONW de 1N3C R 335 ? K.

4447 kHz, 02-05

1915 IDZ5 QSO with outstations 9SBI PYSG TK7A AOAK
1913 de S9WA QTC 251 18 2 2306 251 = ZSQ 140 = MMMMM HÂBCK IIEÔÛ ZECQS .....

7196 kHz, 02-05, 0514 UTC	S99H QSO with outstation OR6Q XR.. S2DE D6JZ 4NAS
7969 kHz, 02-05, 0400 UTC	BWSF QSO with outstations NRSZ J6TW 4T4Z YQAF (the outstations are on 6988 khz)
7853 kHz, 02-05, 0400 UTC	GO2B QSO with outstations LH4Y J2NF LTQP CH1D SGHD WNE8 (the outstations are on 6981 khz)
7280 kHz, 02-05, 0515 UTC	B8DT QSO with outstations JOWR 5EI8 .CHJ DTHZ MKDI
7964 kHz, 02-05, 1230 UTC	D93D QSO with outstations MRFI IU5X KGIO 3N1T LRYJ T19W
4665.5 kHz, 02-05. 1843 UTC	... 2140 245 = AAAAA DDDDD KBKBK AIKKA TTTKK KZZZX XXÂÂÂ TTTAA A ÛÛÛW WWÂÂÂ GUQGK ÛOXXJ QGGÂR .....
3361 kHz, 02-05, 1847 UTC	VRN3 comms check with at least LT_9 1N_3 BQPD K_KW SB5F (?). QSB.
3365 kHz, 02-05, 1919 UTC	ONQ9: Russian Mil NCS in traffic: ... BUZHö UBOZT FFLäG ... QMUWü FSYWH äDOZA RGNLZ KBKVK K. ONQ9 = 027 73 2 2200 02 K
4143 kHz, 05-05, 2014 UTC	HI9D de CYDJ QTC K. CYDJ 320 334 6 0011 320 = ZNJ .86 = 01730 17114 99243 84692 01908 ... 57761 63257 46956 06030 549 K.

18107 kHz, 04-05

1120 XXX XXX WEGI WEGI 15841 04429 BURAEWEC 3063 0077 TORAK 5672 5880 K
1303 8TT32 77678 453T4 92936 86981 59297 44747 95473 641T1 22546 82622 T4T8T K

4665.5 kHz, 05-05

1815 VVV VVV VVV (long series of V)
1829 L91L QTC 265 310 5 2130 265 = AAAAA DDDDD KDKDK AIKKA VVV UÛ ÛXXXN NNHHH SSSSS SWWWG GGDDD CR+TD VCEDQ DEKXY ..... (very long messages)
1913 L91L QTC QTC 266 320 5 2215 266 = AAAAA DDDDD KDKDK AIKKA WWWKK KOOOÛ ÛÛEEE PPPUU UOOOK KKKKK XAGMI HQCWM LBBEK ..... (very long messages)

5514 kHz, 06-05

0224 1N3C = RDYQZ K
0230 1ONW de 1N3C R 912 ? K

7779.5 kHz, 06-05
0407 X4DP ZBM ZRC ZDC K
0418 X4DPde Z4O1 ZSJ ZBT ZLP K
0419 Z4O1 de X4DP AS K
0224 In progress: 5 letters (with O, and Ch Û)

6983 kHz, 06-05
0516 In progress: PYPÂI 662 K
0516 DSFT de WLA9 QTC K
0526 WLA9 289 27 6 0915 289 = 459 = ONNEI EWCYF YLJAV ....
0531 DSFL de BKKM K
0531 DSFL de 8YNF K
0531 DSFL de KPAR K
0531 DSFL de WLA9 K
0531 DSFL de J7XA K

7931 kHz, 06-05, 0531 UTC DSFL QSO with outstations BKKM 8YNF KPAR WLA9 J7XA. QSX: 6983 kHz

The 6983/7931 kHz net uses the following conversion from letters to numbers:

```
P Â W E R T R U I O
0 1 2 3 4 5 6 7 8 9
```

9124.5 kHz, 06-05
0559 In progress: 5 letters (with O, and Ch Û) ..... KEKBZ 793 K
0600 FXLH de XHOS R 332 ? K
0605 CBK5 de XHOS R 332 ? K
0605 HJJR de XHOS R 332 ? K
0605 WA9H de XHOS R 332 ? K

Note:
The network heard on 9124.5 kHz uses the following conversion from letters to numbers:

```
A B W G D E V Z I K
1 2 3 4 5 6 7 8 9 0
```

5879 kHz, 06-05, 1942 UTC Ends comms check with outstations on 6846 kHz ... RPT K. R K.
7822 kHz, 06-05, 1902 UTC RGT77 i.p. ... 785 = WZSLG PPPPP NöUZG SUVTO TOBKCh ... = K.
12816 kHz, 06-05, 1800 UTC Encrypted Morse sked in progress ... EIPGü ERGQXSöChäJM ...

6846 kHz, 06-05
1943 8XY5 responds to NCS on 5979 kHz 8XY5 K.
2115 LCDI A574? K. 8XY5 DE LCDI

9124.5 kHz, 06-05
1311 HJJR de XHOS QTC 107 32 6 1710 107 = ZRO 452 = FZQIW H+.LS ÛSNGU .... KEKBZ 452 K
1313 VYZF (collectif Call) QTC ZMB AR
1313 VYZF 903 32 6 1710 903 = ZMB 452 = SVBKÂ NSÔFR L+TCÛ ÛAQLI HOXAY COÔUQ ..... KEKBZ 155 K
1319 FXLH de XHOS R 903 K
1320 CBK5 de XHOS R 903 K
1321 HJJR de XHOS R 903 K
1321 WA9H de XHOS R 903 K

7957 kHz, 06-05
1458 AHDM msg to B5JO (Collective Call) QTC ZPI AR K
1458 AHDM 769 24 6 1752 769 = ZPI 452 = DDDDD EMNPG YÂNUZ NMGÂY TAHÂU 941
1501 QXQO de AHDM R 769 ? K
1501 8T2M de AHDM R 769 ? K
1501 HN8S de AHDM R 769 ? K
1501 MMAS de AHDM QTA NR 769 K

6810 kHz, 06-05

1707 PPXP R744 K
1708 JBFI de PPXP QBE QYT 4 K
1708 JBFI OK QBE QYT4 K

4665.5 kHz, 06-05

1752 In progress: 5 letters (with O, and CH Û) .....
1751 VVV VVV VVV QTC 270 = AAAAA DDDDD KEKEK AIKKA PPPDD DHHHC CCRRR WWW++ +DDDÔ ÔÔJJJ RQLQD EGMGZ MWMCM ...

9124.5 kHz, 07-05

0623 FXLH de XHOS R 945 ? K
0623 CBK5 de XHOS R 945 ? K
0623 HJJR de XHOS R 945 ? K
0623 WA9H de XHOS R 945 ? K

13964 kHz, 07-05

0847 8BZJ QTC K
0848 8BZJ 804 24 7 1245 804 = 098 = MMMMM TK+GF BTZZI KEÔDV NSCWF …. PUPWW K
0937 XG1Q R K
1028 FFSG de XG1Q K
1029 FFSG de XG1Q ZEK ZVC K
1033 XG1Q 115 26 7 1425 115 = ZG 098 = PPPPP DZWÔO MGQSA FPJDL ....
1123 FFSG de XG1Q K. FFSG responds AS K on QSX freq 14384 kHz. NW XG1Q ZTI ZJL ZWU ZPS ZJZ ZNM QSU1 QYT4 ZZC ZZC K. OK. AS. XG1Q R K.
1130 XG1Q R K
1212 8BZJ broadcast to collective FR7J. FR7J QTC AR. FR7J 461 25 7 1610 461 = 625 = DDDDD MABoS oCTHJ CFLWP IDFRO ... NVoFZ EGVNE ANMJS PUPWE K. Outstations respond on 14384 kHz
1459 QWJ7 de 8BZJ QTC K
1459 8BZJ 728 24 7 1855 728 = 987 = MMMMM TK+GF VBPGJ TKGLE QMTPÔ TKGLE .....

14108 kHz, 07-05

1107 JW3U QSO with outstations FYP1 YE3R OUFS FR1W
1148 XXX ..... IUM 3882 2870 BERBERNICA 8220 5357 K
1123 XG1Q de FFSQ AS K

14384 kHz, 07-05

1129 FFSG OK ZTI ZJL ZWU ZPS ZJS ZNM QSU1 QYT4 ZZC ZZC K. Sets up MS-5/USB link-response to NCS or 13964 kHz
1130 XG1Q de FFSQ ZTI ZJL ZWO ZPS ZJZ ZNM QSU 1 QYT4 ZZC K
1459 QWJ7 QRV K
1501 QWJ7 R 728 K

7931 kHz, 07-05 (QSX 6983 kHz)

1607 DSFL QSO with outstations BKKM 8YNF KPAR WLA9 J7XA

6983 kHz, 07-05 (QSX 7931 kHz)

1607 DSFL de BKKM K
1607 DSFL de YDY6 K
1608 DSFL de KPAR K
1608 DSFL de J7XA K
1608 DSFL de QLA9 K

4665.5 kHz, 07-05

1800 VVV VVV VVV
1810 282 207 7 2110 282 = AAAAA DDDDD KEKEK AIKKA FFFÛÛ ÛGGGO OOGGG YYYFF FIIID DDGGG NTFGF CCHUY NYXFL DÛE+Ô ONUCL .... (end MSG : 18H47 UTC)
1855 E8QD QTC = 283 303 7 2155 283 = AAAAA DDDDD KEKEK AIKKA YYYRR RFFFY YYKKK KKKCC CUUUÛ ÛÛHHH SSDBP +QVPA WXTLÔ WÔJRC QOXVM DUYDM .....

6822 kHz, 07-05, 0420 UTC	Q7HX QSO with outstations CVSB CF7G TRK5 KAOA 4HJQ NVPT 6GYO 9QBS GNKU WBXD 5K7F KNFZ 4DKJ CF7G KAOA X4QB BJXF
7931 kHz, 08-05, 0457 UTC	de DSFL 487 14 8 0816 487 = 070 = MMMMM HNZAH XTAUO …
6983 kHz, 08-05, 0459 UTC	R487 ….
6822 kHz, 08-05, 0526 UTC	Q7HX QSO with outstations CVSB CF7G TRK5 KAOA 4HJQ NVPT 6GYO 9QBS GNKU WBXD 5K7F KNFZ 4DKJ CF7G KAOA X4QB BJXF
9288 kHz, 08-05, 1503 UTC	HUJA(?) de PEO2 K. Outstations on 8073 kHz
13964 kHz, 08-05, 1108 UTC	8BZJ R K. Nothing heard of outstations on 14384 kHz.
9122.5 kHz, 08-05, 1324 UTC	XHOS 5FGs to CBK5 HJJR WM9H FXLH

14108 kHz, 08-05

0517 JW3U QSO with outstations P4IK AIWF FYP1 YE3R OUFS FR1W
0630 XXX WEGI 49334 BAGONKA 26206910 K
0900 JW3U QSO with outstations P4IK AIWF FYP1 YE3R OUFS 1RAM FR1W

9124.5 kHz, 08-05

1110 XHOS clg VYZF QTC ZPT AR 450 29 8 1505 450 = ZPT 517 = 34062 89504 18435 92087 ..... 080208025 446 k
1117 FXLH de XHOS R 450 ? k CBK5 de XHOS R 450 ? k HJJR de XHOS R 450 ? k

4665.5 kHz, 08-05

1825 VVV VVV VVV = 295 292 8 2125295 = AAAAA DDDDD KZKZK AIKKA ÔÔÔNN NQQQX XXDDD XXXVV VMMMA AAÛÛÛ WÂYMI LNZND RBTYN ……
1857 VVV VVV VVV 296 184 8 2100 296 AAAAA DDDDD KZKZK AIKKA CCCDD DVVVR RRAAA ÔÔÔXX XPPPR RRQQQ WXTOR QKÔTM GTIIP FBVJD JYSRD .....

14411 kHz, 08-05

0656 XXX XXX WEGI WEGI 06229 S5301 RANSÜK I816 4138 K
0657 XXX XXX RDL RDL 62109 476IW2 ROGOZUB 7999 2933 K
0658 XXX XXX RGT77 RGT77 92J 39 21651 KARM OPOL 7168 8186 K
0659 XXX XXX WEGI WEGI 13364 41993 SARDOBA 0280 813 K
0703 XXX XXX RDL RDL 27489 52337 CEDILANID 0321 9677 K
0706 XXX XXX WEGI WEGI 60635 56448 OPUçINA 4053 0567 K
0949 XXX XXX W6BY W6BY 1528çE 889SP RIAE Z485 0738 BIBLIOLOG 7942 2457 K

9122.5 kHz, 09-05

0330 XHOS QSO with outstations : FXLH CBK5 WA9H HJJR
0912 XHOS sent coded text before abruptly stopping no other callsigns given
1112 XHOS clg VYZF QTC ZIX AR
1112 XHOS msg to VYZF 444 32 9 1510 444 = ZIX 964 = NZCÂM … KIKBZ 386 K

7931 kHz, 09-05

0450 DSFL QRV K
9454 DSFL R 769 K
0456 8YNF de DSFL QTC ZJX K
0456 DSFL 728 23 9 0846 728 = ZJX 387 = MMMMM HLGFZ OQD+E ÛGRBZ ….. 981 K

6983 kHz, 09-05

0450 WLA9 769 28 9 0835 596 = 769 = DEWÂS +IKFK WÛHPR ÂUOEZ WYHPR ÂUOEZ …. 368 K
0456 8YNF QRV K

4590 kHz, 09-05, 1832 UTC	BIC5 = ….. = ZOP 236 8256 1772 4996 7219 4868 0415 9385 ….
3889 kHz, 09-05, 1907 UTC	741 22 9 2252 741 = 963 = ….. 071 K
4590 kHz, 09-05, 1911 UTC	BIC5 R 533 K
13964 kHz, 09-05, 0359 UTC	8BZJ R 948 K
6822 kHz, 09-05, 0526 UTC	Q7HX QSO with outstations: CVSB CF7G TRK5 KAOA 4HJQ NVPT 6GYO 9QBS GNKU WBXD 5K7F KNFZ 4DKJ CF7G KAOA X4QB BJXF
14108 kHz, 09-05, 0659 UTC	JW3U 121 23 9 1046 121 = 386 = MHAFÛ FHTDA UAGÛB …. 981 K

10987 kHz, 09-05

1513 P2IY = 342 K.
1515 QTC K. P2IY = 679 19 9 1906 697 = 963 = MHTAF OGWIK +YOÔ+ DEMZV +YOÔ+ ….. POPÂY 433 RPT AL K
1522 XXX N1DX 97266 TERROR 7901 7557
1705 P2IY QSO with outstations Q9AP OPB4 M1HN ELTM NTLH
1714 NTLH de P2IY QTC ZBG 437 19 9 2106 437 = ZBG 963 = KHTAÛ SMHÛA QPILT QEUMR QPILT ….. POPÂT 433 K

2786.5 kHz, 10-05, 0250 UTC 909 313 10 550 909 = ZTI = AAAAA DDDDD HHHHH AVWKB KKKWW WPPPG GGTTT LLLBB BZZZÛ ÛÛCCC DEJVH YICÔE ...
4213.5 kHz, 10-05, 0321 UTC A7QU wkg OSBU V3GI KEDI de A7QU QSA ? K and 3 times QS4 R k
3772 kHz, 10-05, 0455 UTC PWCZC XÛTEF MWSEC DREDD …..
7931 kHz, 10-05, 0455 UTC DFSL C R K
6822 kHz, 10-05, 0508 UTC Q7HX QSO with outstations CVSB CF7G TRK5 KAOA 4HJQ NVPT 6GYO 9QBS GNKU WBXD 5K7F KNFZ 4DKJ CF7G KAOA X4QB BJXF
9124.5 kHz, 10-05, 0355 UTC XHOS QSL request Message nr 265 outstations : FXLH CBK5 WA9H HJJR
10987 kHz, 10-05, 1433 UTC P2IY QSO with outstations NLTH 2B2Z ELTM Q9AP OPB4 M1HN ELTM

4665.5 kHz, 10-05

1730 In progress: ... I+MOJ BAYIF FOOXB K K K
1806 VVV VVV VVV VVV QTC 313 AAAAA DDDDD KIKIK AIKKA QQQOO OVVVF FFEEE HHHKK KHHHD DDJJJ JÛA+O EVBÂM LZINÂ HFÂII E+VMF COBUT GZCAL CGSÂÔ ZMÔÂ+ DSNFF HDDÔE ÂQICE YPZ+M NPPDJ ÛSTEP ……. K K K

6983 kHz, 10-05

0453 BKKM 382 21 10 0846 382 = ZHA 420 = MMMMM DQNCF ….. 381 K
0456 DSFL de WLA9 QTC K

13964 kHz, 10-05

0611 XG1Q R 635 QRV K
0611 8BZJ ZGV ZJV ZYI ZJI ZJL ZKT QRR 3 K
1101 QWJ7 de XG1Q ZTB ZJV ZQR ZGT ZJL ZXH QRR 3 K

14384 kHz, 10-05

0620 OU8B R 8BZJ ZGV ZJV ZYI ZJI ZJL ZKT QRR 3 K
0624 XGE6 K
14384 QWJ7 : Russian Military Duplex 1103 CW QWJ7 OK ZTB ZJV ZQR ZGT ZJL ZXH QRR 3 K (10May14) (Andre)

14108 kHz, 10-05

0738 JW3U QSO with outstations P4IK AIWF FYP1 OUFS 1RAM FR1W YE3R
0500 9WTW de 3QZD QTC K (new series CALL valid from 11 to 20 May 2014)

13964 kHz, 11-05

0525 ZSLK (collective Call) QTC AR (new series CALL valid from 11 to 20 May 2014)
9525 042 24 11 0915 042 = 166 = DDDDD FSMUM SJTLT GEFKZ WJCPV GEFKZ WJCPV
0525 H66H QRV K (new series CALL valid from 11 to 20 May 2014)

14384 kHz, 11-05

0529 TL9C R 042 K (new series CALL valid from 11 to 20 May 2014)
0529 5EZE R 042 K (new series CALL valid from 11 to 20 May 2014)
0529 ZI1R R 042 K (new series CALL valid from 11 to 20 May 2014)
0529 H66H de TL9C QTC K (new series CALL valid from 11 to 20 May 2014)

6822 kHz, 11-05, 0511 UTC BUB5 QSO with outstations SPNS 2UWF SYSO 7FIA VUC9 PKWT MS7H GUXZ QVSZ SYCO (new series CALL valid from 11 to 20 May 2014)

13396 kHz, 11-05

0506 In progress: ... DDRFZ MCDÔÛ ÂÂPWP 057 K
0909 JF7E de J9WY K – RPT k and r k

14108 kHz, 11-05

0501 3QZD msg 103 22 11 0850 103 = 296 = MMMMM PÂPWO +HHRA DIÂAB +YHOO DIÂÂB +YHOO DIÂÂB … S+C+L ÂÂPÂO 057 K
1054 QDFC de 3QZD ZMW ZND ZWH QYT6 K
1100 7PV3 de 3QZD QTC K
1101 942 21 11 1450 942 = 973 = MMMMM PÂPWO DRZZH BV+YÂ DOÂZH BV+YÂ ….. ÂÂPÂ. 583 RPT AL K

7632 kHz, 12-05, 0406 UTC YBIN QSO with outstations ..MP 3LAK
14384 kHz, 12-05, 0416 UTC WKGQ de TL9C QTC
13964 kHz, 12-05, 0416 UTC WKGQ QRV
6822 kHz, 12-05, 0518 UTC BUB5 QSO with outstations SPNS 2UWF SYSO 7FIA VUC9 PKWT MS7H GUXZ QVSZ SYCO
12593 kHz, 12-05, 0521 UTC MQDS de FII4 ZMR ZMO ZWH K
3772 kHz, 12-05, 1940 UTC X6SP Comms checks with at least TMBH & ZDZX
4419 kHz, 12-05, 1903 UTC 9JKV de J3YJ QTC K. J3YJ 489 16 12 2252 489 = 109 = AROöC NChRAP MHUM_ _OUOö AHESM ... NOAECh QUATE äWPäE 341 RPT AL K. J3YJ C K
13396 kHz, 12-05, 1416 UTC LBSG R 223 K

4791 kHz, 12-05

0327 NVDU AS K
0332 NVDU QRJ 3 QYT 6 K

7280 kHz, 12-05

0450 In progress: ... 12 0830 531 = 355 = PPPPP IWSKJ ÂWKWM TVKFW XIK+Û ….. 053 K
0454 4CTH 651 18 12 0840 651 = 355 = PPPPP Q+HVK MIÛHN GÔKJD AALBZ GÔKJD …..

14108 kHz, 12-05

0456 Y1CQ (Collective CALL) QTC ZMV AR
0457 3QZD 556 18 12 0848 556 = ZMV 355 = ARZÔC FGRSG BROE ÂCADH BNROE ....
0457 3QZD R 556 ? K for outstations : QDFC HHWM GPMM ZCWB 5BSK 9WTW
0533 Z7XF de 5VPM 804 22 12 0852 804 = 355 = MMMMM RSNUH SEOH+ WNTTR FNEDÂ WNTTR ….
0542 5BSK de 5VPM QTC 805 22 12 0906 805 = 129 = MMMMM RSNUH ATZÔZ NRVVU GOKOP NRVVU GOKOP FRVVU ….. ÂWPÂO 882 K

6832 kHz, 12-05

1806 CYK2 QSO with outstations OCNX 4UI9 PJNO (CYK2 GS9O DK7S : same station)
1809 GS9O QSO with outstations S5BA (CYK2 GS9O DK7S : same station)
1810 DK7S QSO with outstations 6LP7 ETC4 (CYK2 GS9O DK7S : same station)

6832 kHz, 13-05, 0233 UTC FQV8 de XDIB K
3713 kHz, 13-05, 0241 UTC XLOV QSO with outstations G11N GM8D NDNO
3772 kHz, 13-05, 0311 UTC XLOV QSO with outstations ZDZX TGOK TMBH
9124.5 kHz, 13-05, 0333 UTC OZWN QSO with outstations …. VV.K
7976 kHz, 13-05, 0344 UTC LDBO QTC 245 29 13 0740 245 = 008 ÔPÛRP NRÛDW OCÔQE …... PWYTT 8 AR
6822 kHz, 13-05, 0514 UTC BUB5 QSO with outstations 7AMP MS7H DL7S GUXZ H4ZL SGAP VHQ8 TZSB QVSZ SPNS 2UWF ORME SYFO 7FIA SYFO PKWT VUC9
9683 kHz, 13-05, 0527 UTC XDIB 575 29 13 0915 575 = 008 = PIWU MITDA WDBY+ …..
13396 kHz, 13-05, 0724 UTC J9WY QSO with outsides 1F7E A6BJ
4441 kHz, 13-05, 1903 UTC LBDO QTC 472 23 13 2300 472 = 714 = ÔGHÛÛ +GÂCR DDDDD LIZQM BXFGÔ ..... 714 AR
5476 kHz, 13-05, 1925 UTC 3VBL de TGD4 QSA2 K. 3VBL de QSEL QSA3 K.
5596 kHz, 13-05, 1902 UTC 7CDT QTC K. 7CDT 261 27 13 2300 261 = 095 = HAKHö AüEOY TZChQO ... HYIHA äEPWT RPT AL K. Corrections. 1U6D de JIYS R 261 ? K. 5 apparent outstations. 7CDT-Collective.
13964 kHz, 13-05, 1300 UTC H66H ... 37238 65480 93722 21964 13025 QTC K. OStn on 14384 kHz responds ... R _63 K.
14384 kHz, 13-05, 1306 UTC H66H de QIH6 QTC K. QIH6 926 24 13 1705 926 = 516 = PPPPP GEPOO TTUQI IKAGS FSFJö ... SWIBK CKEOO OURWO SOJIO äEPWE K. NCS on 13964 kHz responds R 926 K.

8134 kHz, 13-05, 0700 UTC

00000 00000 TEH PROWERKA
00000 00000 TEHNIESKA PROWERKA 52KB
XXX LR43
XXX LR43

00000 00000 TEH PROWERKA TEH PROWERKA TEH PROWERKA 00000 K
RMW34 DE W32R XXX? QSA3 K

14108 kHz, 13-05
0350 Y1CQ ZMR ZMJ ZTF K
0435 3QZD QSO with outstations QDFC HHWM ZCWB GPMM 5BSK 9WTW

7931 kHz, 13-05
0527 FQV8 QRV K
0533 FQV8 R 575 K
0535 FQV8 QSO with outstations NWBP Y9VC 6ROG PTLE 3CO1 XDIB F3KS (outstations responded on 6983 kHz)
1645 FQV8 R 804 K

12593 kHz, 13-05
0316 JLB8 de FII4 QTC 345 18 0704 345 = 696 = FCARA YVRHZ P+ZEG LDÛRH ..... ÂEPÂT 142 AR
0741 MQDS de FII4 QMO QYT 9 K
0745 1MN1 de WSMV ZVV ZAO ZLC QYT6 K
0751 1MN1 de WSMV ZWD ZRJ ZNR QYT6 K
0800 MQDS de FII4 QMO QBE QYT 9 K
0949 1MN1 de WSMV QBE QYT 6 K
1111 47W6 ZMV AR
1113 FII4 166 23 13 1506 166 = ZMV 579 = FCIRA TPEAY ÛFTYL ÔQTBE ÛFTYL ..... ÂEPÂO 470 K

9407.5 kHz, 13-05
1227 OCSI de 1WX8 K
1227 OCSI de 1WX8 K
1235 OCSI de 1WX8 QTC 048 32 13 1630 038 = ZWS 096 = CT... +CPQJ HEIEU ...

10233 kHz, 13-05
1513 PTLE R 713
1643 NBWP = UQNET QFCQH ... PÂT 734 K

9124.5 kHz, 14-05, 0331 UTC OZWN : QSO with outstations CDQ8 YIKG
6113.5 kHz, 14-05, 1844 UTC PN7O QSO with outstations GIJS WWZ7 4MJN (QRJ ? QQS ? And QXS … K)
13812 kHz, 14-05, 0633 UTC NER9 WZD 6401 768 20 2971 80 RPT ….
10987 kHz, 14-05, 1730 DE NZH1 K sent to EITC HENT 3LTE and OSJ6G8

10452 kHz, 14-05
1600 XXX XXX RDL RDL 15972 90872
1610 XXX XXX ON8OI 7 IM6T81 ç 88E7 26T81 TZ87M 26T81 K
1704 i.p 57258 85394 48252 877T2 8T569 52876 5675T 86875 61613 4T887 14T4T K
1715 very long message (5LGs)

7957.6 kHz, 14-05
0509 6KVM 305 16 14 09 305 = ZMO 415 = DDDDD ZEKNP PWNNG ÔDIFN .....
0512 6VKM : R 305 ? K for outstations 1GAP 1R5Y ASFI LE3J

6822 kHz, 14-05
0518 S7DS de F..9 QSA ? …..... 7AMP de BUB5
0518 BUB5 QSO with outstations 7AMP MS7H DL7S GUXZ H4ZL SGAP VHQ8 TZSB QVSZ SPNS 2UWF ORME SYFO 7FIA SYFO PKWT VUC9

12593 kHz, 14-05
0524 MQDS de FII4 ZNO ZMO ZLC K
0525 1MN1 de FII4 ZNO ZMO ZLC K
1101 JLB8 de FII4 QTC 538 22 14 1448 438 = 873 = MMMMM UTDBÂ PÂIPK BVOÛÛ AÂIHQ …. ÂRPÂO 117 AR

14108 kHz, 14-05
0530 3QZD : QSO with outstations QDFC HHWM ZCWB GPMM 5BSK 9WTW
1122 Y1CQ QTC ZWW AR

1122 309 22 14 1504 309 = ZWW 887 = VQHGF HVAGÛ KFVUÂ VCBMZ KFVUÂ ….. ÂRPÂI 117 K
1125 3QZD : R 309 ? k for outstations QDFC HHWM ZCWB GPMM 5BSK 9WTW 7PV3
1133 Z7XF de 3QZD QTC21 141506 896 = 873 =VQHGF UKÂER BSBLQ VÛIZL BSBLQ VÛIZL ….. ÂRPÂI 117 AR

16248 kHz, 14-05
1033 PILG de SZW7 QTC 431 34 14 1430 431 = ZPZ 887 = CFÂÂS FBÂUD AHCFG GAPÂK ….. AGKWK 161 K
1622 PLGE de SZW7 K and R K
1711 PLGE de SZW7 K and R K

6832 kHz, 14-05
1802 CYK2 QSO with outstations OCNX 4UI9 PJNO (CYK2 – GS9O DK7S : same station) (
1805 GS9O QSO with outstations S5BA (CYK2 – GS9O DK7S : same station)
1806 DK7S QSO with outstations 6LP7 ETC4 (CYK2 – GS9O DK7S : same station)

3772 kHz, 15-05, 0237 UTC	XXX PABA WARKYT 723 K
6969 kHz, 15-05, 0359 UTC	LE3J = …… 998 = 727 = LÛJTS FÛSIN ….. ÂTPVE 289 K
6822 kHz, 15-05, 0511 UTC	BUB5 QSO with outstations 7AMP MS7H DL7S GUXZ H4ZL SGAP VHQ8 TZSB QVSZ SPNS 2UWF ORME SYCO 7FIA SYFO PKWT VUC9
16248 kHz, 15-05, 0531 UTC	PLGE de SZW7 K and R K
9134 kHz, 15-05, 0635 UTC	8VAW DE CY2T K -: 4NNP DE CY2T K - RPT K 561 QTC K - 433 23 15 1100 433 = 809 = 31112 59354 ...

4791 kHz, 15-05
0301 YHBS de NVDU K
0301 YHBS de BTWP K
0301 YHBS de SND5 K
0302 YHBS de HX1I K
0303 YHBS de N3QF K
0303 YHBS de 7XOI K
0304 YHBS de IIIC K
0304 YHBS de Z4DO K
0305 YHBS de Z4DO QTC 372 30 15 0700 372 = 742 MMMMM SBLCY WÂPVA …. 627 K

7957.6 kHz, 15-05
0357 6KVM QRV K
0401 6KVM R 998 K
0404 3QZD QSO with outstations QDFC HHWM ZCWB GPMM 5BSK 9WTW
0521 7PV3 de 5VPM ZMW ZND ZWH QYT 9 K

6832 kHz, 16-05
1800 CYK2 QSO with outstations OCNX 4UI9 PJNO (CYK2 – GS9O DK7S : same station)
1803 GS9O QSO with outstations S5BA (CYK2 – GS9O DK7S : same station)
1805 DK7S QSO with outstations 6LP7 ETC4 (CYK2 – GS9O DK7S : same station)

6810 kHz, 17-05, 0412 UTC	4CTH QSO with outstations CJIS W7ZP GDAX OEY8
6822 kHz, 17-05, 0507 UTC	BUB5 QSO with outstations 7AMP MS7H DL7S GUXZ H4ZL SGAP VHQ8 TZSB QVSZ SPNS 2UWF ORME SYCO 7FIA SYFO PKWT VUC9
7957 kHz, 17-05, 0527 UTC	ASFI de 6KVM QRV K
10987 kHz, 17-05, 1459 JUTC	J6G8 de NZH1 QTC 695 16 17 18 …… ÂWPWW 341 RPT AL K
9989 kHz, 17-05, 1505 UTC	J6G8 698 26 17 ……

6832 kHz, 17-05
1802 DK7S QSO with outstations : 6LP7 ETC4 (CYK2 – GS9O DK7S : same station)
1804 CYK2 QSO with outstations : OCNX 4UI9 PJNO (CYK2 – GS9O DK7S : same station)
1806 GS9O QSO with outstations : S5BA (CYK2 – GS9O DK7S : same station)

4791 kHz, 18-05, 0302 UTC	Outstations NVDU BTWP SND5 HX1I NQ3F 7XOI IIIC Z4DO QSO with YHBS
6822 kHz, 18-05, 0504 UTC	BUB5 QSO with outstations 7AMP MS7H DL7S GUXZ H4ZL SGAP VHQ8 TZSB QVSZ SPNS 2UWF ORME SYCO 7FIA SYFO PKWT VUC9
8084 kHz, 18-05, 0542 UTC	…. de 6UBM K and QRJ 3 and AR

14411 kHz, 18-05, 1623 UTC RDL: Russian Strategic Bcast i.p. 79-group routine msg ... 90491 60263 ... 27508 03755 18079 K. // 18.1 kHz

6832 kHz, 18-05

1803 CYK2 QSO with outstations OCNX 4UI9 PJNO (CYK2 – GS9O DK7S : same station)
1805 GS9O QSO with outstations S5BA (CYK2 – GS9O DK7S : same station)
1807 DK7S QSO with outstations 6LP7 ETC4 (CYK2 – GS9O DK7S : same station)

6953 kHz, 18-05

1818 MSGI de ZI1O QTC 756 17 18 2202 756 = 11111 93741 04638 28182 ….. 18016 RPT AL K
1820 MSGI 756 17 18 2202 756 = 11111 93741 04638 28182 ….. 18016 K
1824 MSGI de ZI1O SK K
1824 ZI1O de MSGI SK K

3538 kHz, 19-05, 0233 UTC XXX XXX .9AB CKYJ 813 WARDKYJ 823 K
4791 kHz, 19-05, 0302 UTC NVDU BTWP SND5 HX1I NQ3F 7XOI IIIC Z4DO QSO with YHBS
3772 kHz, 19-05, 0308 UTC YHNB QSO with outstations DRIV OS.D OJWP 8VN4 1H.5
6927.5 kHz, 19-05, 0502 UTC KUY1 de SH9V K and QSA2 QSA? K and R K
6822 kHz, 19-05, 0514 UTC BUB5 QSO with outstations 7AMP MS7H DL7S GUXZ H4ZL SGAP VHQ8 TZSB QVSZ SPNS 2UWF ORME SYCO 7FIA SYFO PKWT VUC9
10987 kHz, 19-05, 1430 UTC NZH1 QSO with outstations J6G8 3LTC TKWE H2OM IOQQ
7957 kHz, 19-05, 1440 UTC 6KVM QSO with outstation LE3J

6913 kHz, 19-05

0328 de NWE9 QTC 351 22 19 0810 351 = 811 = PPPPP PRYNY TCVAE PDTKE ….
042 NWE9 QSO with outstations : WRKF JQCT 3CLH

13979 kHz, 19-05

1453 C5W9 de S4WT QSL 485 QAP K
1454 4S4WT de C5W9 RK
1456 ZIX8 de S4WT QSA ? K
1512 S4WT QSO with outstations SQPM X2H1 C5W9 ZIX8 and AR All outstations (As an end of the maneuver or exercise !)

6832 kHz, 19-05

1800 CYK2 QSO with outstations OCNX 4UI9 PJNO (CYK2 -- GS9O DK7S : same station)
1808 GS9O QSO with outstations S5BA (CYK2 -- GS9O DK7S : same station)
1810 DK7S QSO with outstations : 6LP7 ETC4 (CYK2 -- GS9O DK7S : same station)

3772 kHz, 20-05, 0244 UTC WT4C de 9ACY QTC 911 51 20 0540 911 = 587 189 641 = DDDDD WÛUÛU ZCBOE TOLY ÛFRQYB QNAJT GGPUG ….
4791 kHz, 20-05, 0300 UTC Outstations NVDU BTWP SND5 HX1I NQ3F 7XOI IIIC Z4DO QSO with YHBS
14108 kHz, 20-05, 0319 UTC 3QZD = OWEMP DDEII LÔDFS SYIAÛ FAPBU PUSZO ISNYU …. WPPÂI 595 K
12593 kHz, 20-05, 0322 UTC FII4 QSO with outstations MQDS 1MN1 IOYD
13964 kHz, 20-05, 0342 UTC QIH6 de WKGQ K
13979 kHz, 20-05, 0430 UTC S4WT QSO with outstations SQPM X2H1 C5W9 ZIX8 and QAP
7957 kHz, 20-05, 1655 UTC 1R5Y de 6KVM QTC 160 19 20 2046 260 = 072 = dcubo ahsno …
6969 kHz, 20-05, 1657 UTC 1R5Y R 160 K
5879 kHz, 20-05, 1721 UTC In progress …. WPPWP 318 K
6997 kHz, 20-05, 1831 UTC ..G8 de MNNN K and QRJ 3 and AR
6822 kHz, 20-05, 0509 UTC BUB5 QSO with outstations : 7AMP MS7H DL7S GUXZ H4ZL SGAP VHQ8 TZSB QVSZ SPNS 2UWF ORME SYCO 7FIA SYFO PKWT VUC9

6846 kHz, 20-05

1715 4CSN de I9CB QTC 798 24 20 2104 798 = 766 = DCUBO KTIHH NM+MO ZDVT+ ….. 399 AR
1718 QOY8 de I9CB QTC 178 23 20 2102 178 = 072 = DCUBO WCPTA CEWEE KVBIL … WPPWP 318 RPT AL K
1724 I9CB C R K

6983 kHz, 20-05

0435 NWBP = ÔFRKF BÛHJK MKS+F …..
0502 Y9VC = 764 18 20 0746 764 = 979 = MMMMM ZYWGU SWHTP

7931 kHz, 20-05
0438 FQV8 R 2.. K
0503 FQV8 C R K

7164 kHz, 20-05
0522 HI7U de AIVH K
0525 3OT9 OK ZIN ZRP ZUT QYT 4 K
0609 D3KK OK QAP K

7392 kHz, 20-05
0603 PM6J 318 15 20 1000 318 = 108 = 9054 2641 5734 7261 ….. K
0624 QYL7 (Collective CALL) 525 22 20 10 20 525 = 287 = DDDDD DCKJE UZNEE KDUNZ LPQLG … WPPWP K

4791 kHz, 21-05, 0301 UTC	Outstations : BZCB ZM7C HYDJ I1DG QA4H QSO with V1ME
7931 kHz, 21-05, 0312	VVBL de 3THR QTC 619 21 21 0702 617 = ZVE 991 = MMMMM CÔOYLW UBÂGK ….
6983 kHz, 21-05, 0316 UTC	VVBL R 619 K
13964 kHz, 21-05, 0437 UTC	NRDS R 454 QRV K
14384 kHz, 21-05, 0437 UTC	GSQ7 = 861 26 21 0828 861 …..
6822 kHz, 21-05, 0518 UTC	JDX5 QSO with outstations 8UVH 7VBU 8QXJ LXZN OZ2K Q5ZE Y4GI SHOJ X8J4 TMYG 4PZV A6NA ITAK NWAM QIWB PGNP
4472 kHz, 21-05, 2303 UTC	ZBOQ DE T7YG

4467 kHz, 21-05
2306 PQQK DE P9KI QRJ? QYT9
2308 P9KI QJG QYT9

14108 kHz, 21-05
0304 P6DO de 9YZZ QTC 967 19 21 0648 967 = ZTQ 991 = MMMMM CÔOYLW UFVER … WÂPÂT 940 RPT AL K
0604 P6DO de 9YZZ QTC K
0605 9YZZ 003 16 21 0850 003 = 267 = MMMM CÔYLW K+DPR TGÔBT …
1005 XXX 9TIC 80763 WOROBA 5463 9675 K
1018 XXX 9TIC 50993 OKWARKA 3043 9726 K
1025 XXX 40699 TRIBA 674 2344 K
1031 9TIC 31428 DAMBA 4356 3241 K
1035 XXX 9TIC 39959 AZOMILTIN 3051 3264 K

12563 kHz, 21-05
1018 XXX 9TIC 50993 OKWARKA 3043 9726 K
1025 9TIC XXX 40699 TRIBA 6745 2344 K
1031 XXX 9TIC 31428 DAMBA 4356 3241 K
1035 XXX 9TIC 39959 AZOMILTIN 3051 3264 K

12593 kHz, 21-05
0751 8XAV de COE3 ZVZ ZTG ZXK QYT 9 K and R k
1024 LE3J de COE3 R 076 K

4419 kHz, 21-05
2300 E2S8 054 17 22 0250 054 = 113 = CÖCHF ÖBTTN DÖRDF DYCWA DÖRDF DYCWA DÖRDF DYCWA OPÖNCh ÜMSKY EPMHM ZUTFW BÄWRW TMMEE WWPÄR 341
2302 QEVW DE E2S8 RK
GOCP DE E2S8 RK
S8S4 DE E2S8 RK
1UE1 DE E2S8 RK
O69E DE E2S8 RK
6JLS DE E2S8 RK
AUI2 DE E2S8 RK
X6TU DE E2S8 RK

4472 kHz, 21-05, 2303 UTC 2303z ZBOQ DE T7YG
4467 kHz, 21-05, 2306 UTC PQQK DE P9KI QRJ? QYT9
4467 kHz, 21-05, 2308 UTC P9KI QJG QYT9
6984.3 kHz, 21-05, 1738 UTC FNZQ QTC 335 310 21 2040 335 = AAAAA DDDDD BKBKB AIKKA RRRXX XSSSC CCAAA OOO++ +PPPT TTÂÂÂ AÛMEF +ZFFÂ IKÂHÂ YYDSF ..... K K K K K

12593 kHz, 22-05, 0244 UTC 8XAA de SUIG QRV K and R164 k
4791 kHz, 22-05, 0301 UTC Outstations BZCB OD7F ZM7C HYDJ I1DG QA4H QSO with V1ME
6994 kHz, 22-05, 0345 UTC X7S5 245 34 22 0743 245 = ….
6822 kHz, 22-05, 0508 UTC JDX5 QSO with outstations 8UVH 7VBU 8QXJ LXZN OZ2K Q5ZE Y4GI SHOJ X8J4 TMYG 4PZV A6NA ITAK NWAM QIWB PGNP
14384 kHz, 22-05, 1315 UTC GSQ7 OK ZHX ZGW ZRD ZEE ZGA ZRL QSU1 QYT … K
13964 kHz, 22-05, 1315 UTC BWNW R K
6989 kHz, 22-05, 1757 UTC MVHG QSO with outstations MGXN 7PP5 KCET

14108 kHz, 22-05
0302 9YZZ 357 23 22 0650 357 = 113 = YÔOCHF ÂÂ…. WWPWP 341 K
0311 8J2F de 9YZZ QTC 811 19 22 0706 811= 791 = YÔCHF NTFSS VSWZÔ LDHOE
0528 YCDC de 9YZZ QTC 327 21 22 0906 327 = 791 = MMMMM V.MFD …
1010 XXX SX6V 61006 MIASTENIÂ 3613 3885 K

6832 kHz, 22-05
1814 TL9E QSO with outstations CGIW D.YI VIWJ (TL9E 3OYX ZAXJ : same station)
1817 3OYX QSO with outstations P2DX (TL9E 3OYX ZAXJ : same station)
1818 ZAXJ QSO with outstations ZIBO Z2HK (TL9E 3OYX ZAXJ : same station)

6983 kHz, 23-05, 0230 UTC 3THR QSO with outstations JH7Q VVBL KX8I AWMN
5294 kHz, 23-05, 0301 UTC V1ME QSO with outstations BZCB OD7F ZM7C HYDJ I1DG QA4H OHX4 HM3W I1D6 (QSX 4791 kHz)
14384 kHz, 23-05, 0930 UTC Outstations 8FFM TF1D GSQ7 O75D K..R confirm receipt QTC nr 450
14108 kHz, 23-05, 1102 UTC 9YZZ send R727 ? All outstations : 8J2F GCK8 TFOV S5AY QF2I 8YKK P6DO YCDC
6846 kHz, 23-05, 1708 UTC YIZ5 QSO with outstations …… CQQX Y37B

12227 kHz, 23-05
0315 JQC8 de VKIN QTC 675 45 23 0700 575 = 701 = UAFG+ +RIQV OÔLCN RAQÔU OÔLCN RAQÔU ….
0531 ...J de D4WM QTC K

7392 kHz, 23-05
0608 NRA5 de YW8J K
0608 YW8J = ZXK ZSP ZWE ZXN ZSU ZWZ QSW3 K
0616 PKOJ de 8LYI K
0617 8LYI = ZWX ZSI ZWT ZWM ZVP ZWP QSW3 K
0626 S9WL de 8LYI K

6832 kHz, 23-05
1505 6OIY (Collective CALL) QTC ZLM AR
1506 ITHA = 323 72 23 1908 323 = ZVB 520 = DDDDD VONKB UIVY+ …. K

4479 kHz, 23-05 .. de _B9E ... ZWG QYT9. Nothing further
5294 kHz, 24-05, 0301 UTC V1ME QSO with outstations BZCB OD7F ZM7C HYDJ I1DG QA4H OHX4 HM3W I1D6
12227 kHz, 24-05, 0322 UTC 4BKJ de VKIN QTC 582 45 24 0710 582 = 552 = XHWXC ÂETKY IRQN+ ….
7957 kHz, 24-05, 0327 UTC 4ENY QRV K (outstation on 6969 Khz but too low) and R 719 K
7976 kHz, 24-05, 0434 UTC LBDO QTC 795 28 24 0830 795 = 586 = LZUYÔ YLH ÔÛ YCARD QTUND …. 856 AR
6822 kHz, 24-05, 0507 UTC JDX5 QSO with outstations 8UVH 7VBU 8QXJ LXZN OZ2K Q5ZE Y4GI SHOJ X8J4 TMYG 4PZV A6NA ITAK NWAM QIWB PGNP
14317 kHz, 24-05, 1715 UTC …. de LALD K and R K
14317 kHz, 24-05, 1843 UTC LALD QSO with outstations H1LN BWWF
6846 kHz, 24-05, 1853 UTC Y37B de TXIL QTC 925 23 24 2246 925 = ZVG 609 = QPTCG LÔTNN LFRUB FUÂYI

	LFEUB FUÂYI … WRPÂO 514 K
5879 kHz, 24-05, 1856 UTC	Y37B R 925 K
6846 kHz, 24-05, 1856 UTC	8T2H de TXIL QTC 180 17 24 2248 180 = 785 = QPTCG YSFHY HNFVU ÛDDE WHNFVU … WRPÂR 514 (MSG repat 2 times and AR)
6985 kHz, 24-05, 1916 UTC	MYTR: VVV VVV VVV VVV VVVV
6885 kHz, 24-05, 1917 UTC	MTYR: QTC 347 295 24 2200 347 = AAAAA DDDDD BWBWB AIKKA DDDÛÛ ÛFFFC CCQQQ OOOSS SMMMK KKMMM MHVFZ +ZSOW GGQKT ….
8778 kHz, 24-05, 1554 UTC	Q4E7 de YTJM QSV K. YTJM QSA3 QSA? K. NCS responds on 9913 kHz.
9913 kHz, 24-05, 1555 UTC	Q4E7 QSA3 K. R K. Response to OStn on 8778 kHz.
11442 kHz, 24-05, 1659 UTC	Fast encrypted Morse sked in progress: PVUWüN PFNCXBDWVäS …
7931 kHz, 25-05, 0230 UTC	3THR QSO with outstations : JH7Q VVBL KX8D AWMN (frequency : 06983 Khz)
7957 kHz, 25-05, 0230 UTC	4EYN QSO with outstations : 9DHQ TQEO (frequency : 06969 Khz)
5294 kHz, 25-05, 0301 UTC	V1ME QSO with outstations O4PV 5ZPV BZCB OD7F ZM7C HYDJ HM3W I1D6 QA4H
14108 kHz, 25-05, 0314 UTC	YCDC de9YZZ QTC 089 23 250650 089 = 070 = MMMMM PÂRWY HOBOY ÂNFBO V+TÂÛ ÂNFBO …. 492 AR
12227 kHz, 25-05, 0348 UTC	4BKJ de VKIN QTC 436 51 25 0735 436 = 634 = BJREE FEUYD +GNED ALJÔE …
6810 kHz, 25-05, 0514 UTC	8TBK QSO with outstations FST8 ZDFP TIB1 Q7WL .A7B
7976 kHz, 25-05, 0521 UTC	LDBO QTC 599 2 25 0920 599 = ZRN 260 ETÔÂS GALM+ …. WTPWÂ 861 AR
12593 kHz, 25-05, 1320 UTC	COE3 QSO with outstations 8XAV DDF2 LE3J
6846 kHz, 25-05, 1705 UTC	YIZ5 QSO with outstations 9CSX 8JKI Y37B CQQX

9134 kHz, 25-05

0546 MLOA QTC 368 24 25 0940 368 = 368 UAWNV VCKVN ….
0614 KN2X (Collective CALL) QTC AR
0614 KN2X: 450 26 25 1010 450 = 004 = MMMMM KEUTS PIGWI SVJHI MFAHK SVJHI MFAHK … WTPWR K
0742 F8IT de MLOA QTC 808 28 25 1140 808 = 886 = PPPPP NRUKG BTÔHZ MNUEU MEKUM MNUEU …. WTPWY K

M32a
Russian Navy
Voyenno-Morskoy Flot Rossii

7566 kHz, 01-05, 1731 UTC	..RV de RCV QAP K
11000 kHz, 01-05, 2201 UTC	RMMA RMMA DE RIW RIW QSA? K. RIW QYT9 QSX 11429 K. RIW R K RIW AS 1 K RIW R K
10543 kHz, 01-05, 2239 UTC	RCV wkg RCIV long messages at slow speed
10535 kHz, 02-05, 1108 UTC	RDL = 22222 6723. 12457 ….
5775 kHz, 02-05, 1757 UTC	RIC87 de RCV QTC 217 42 1 0926 217 = PAI.P ...OROSSYSK 105 KARTA 321….
10543 kHz, 04-05, 2243 UTC	RCV QYT4 QSA K
6832 kHz, 06-05, 1724 UTC	NR 082101 MAJj 3 ÉTÔK OTM 72/14 I ÉTOK PUNKT ….

8345 kHz, 06-05

0539 RMP DE RMI93 287 1? 6 ???? 287 = (faded) 06061 99515 10021 22252
51.5N 02.1E heading SW @ 6-10kts
1700 VVV RCV DE RFH70 QSA?
1701 RCV DE RFH70 QYT4 (faded)
1706 VVV RMP DE RMI93 QSA3
1707 RMP DE RMI93 OK QAP
1711 RMP DE RMI93 OK QYT4 QWH 4158
1725 RMP DE RMI93 OK QYT4 QWH 12374
1735 RMP DE RMI93 QTC
1736 RMI93 233 14 6 2130 233 = FOR RJH45 RJD38 = 06181 99503 70002 22252
50.3N 00.2W heading SW @ 6-10kts https://goo.gl/maps/j6uNg (includes 0539z plot)
1823 RCV DE RFH70 OK QYT4 QWH 6310

7566 kHz, 07-05, 0414 UTC	RGE86 de RCV QTC 734 …..
11155 kHz, 07-05, 0733 UTC	RMW32 = 22 27 7 1105 K
14842 kHz, 07-05, 0858 UTC	XXX XXX XXX WEGI 01763 NEUWÂZKA 19416625 K

9145 kHz, 07-05, 0312 UTC RMRV DE RIW QSA?
12464 kHz, 07-05, 1125 UTC RMP DE RFV99 OK QRR3 SK

14556 kHz, 07-05
0827 de RIW R K
0832 RIW QSU 1 SK K

3876 kHz, 07-05
1809 VVV RMBO DE RJD52 QSA ? K
1810 VVV RJU79 DE RJD52 QSA ? K
1810 XXX XXX RLO RLO BUM 214AAA0 BT 222AAA0 OTMEN'AETS\A K
1811 VVV RJU79 DE RJD52 QSA ? K
1812 VVV RKH82 DE RJD52 QSA ? K
1814 RJD52 DE RKH82 QSA 2 K. RKH82 QDW 8. TT QSA 1 K. RKH82 RPT K. RJD52 ... 1 K
1815 RKH82 OK QDW 8100 QSU 1 K

8345 kHz, 07-05
1630 VVV RMP DE RMI93 QSA?
1632 VVV RMP DE RMI93 QSA?
1634 RMP DE RMI93 QYT4 QSA?
1638 RMI93 OK QLS OK?
1701 RMP DE RMI93 OK QYT4 QWH 8302
1712 RMP DE RMI93 OK QYT4 QWH 12370
1803 VVV RIT DE RJP98 QSA?
1814 VVV RMP DE RMI93 QSA? QTC
1815 RIT DE RJP98 QSA3 QSL239 NO
1817 RMI93 217 14 7 2210 217 = FOR RJH45 RJD38 = 07181 99496 70008 22200
49.6N 00.8W hove to https://goo.gl/maps/7mbQk
2057 VVV RCV DE RHL80 QSA?
2127 RCV DE RHL80 QYT4 QSA2
2128 RCV DE RHL80 OK QYT4 QWH 5322
2134 RCV DE RHL80 QYT4 QSX 9192

7566 kHz, 08-05
0403 RIP90 de RCV QTC 395 28 7 1358 395 = NAWIP 033 1032 KARTA 32225 TURCIÂ STRELXBY 09 MAJ 0700 DO 1500
RAJONE LT D 13 ADANA CENTROM 36/29 S 035/08 W OTM ÉTOT NR 09 1600 MAJ AR

8345 kHz, 08-05
0608 VVV RMP DE RMI93 QSA? QTC
0610 RMI93 337 14 8 1005 337 = FOR RJH45 RJD38 = 08061 99496 70008 22200
49.6N 00.8W Hove to https://goo.gl/maps/7mbQk
0622 VVV RIW DE RAL48 QSA? QTC
0702 VVV RMP DE RMI93 QSA? QTC
0703 RMI93 451 18 7 1100 451 = SML FOR RJD69 =
11111 91819 66672 31482 04504
89376 16957 20410 74028 58493
98049 57408 90781 60169 08014
= + RMI93

11155 kHz, 08-05, 1304 UTC RFJP98 DE RIT K
11155 kHz, 08-05, 0813 UTC RIT long coded messages IIII used as separator
19201 kHz, 08-05, 0832 UTC RCV NAWIPS sent to RBE86 and RGX94
10543 kHz, 09-05, 0354 UTC RBE86 de RCV QTC 736 16 8 1401 736 = NAWAREA 034 237 KARTA 34259 POB....
7566 kHz, 09-05, 0354 UTC RBE86 de RCV QTC 736 16 8 1401 736 = NAWAREA 034 237 KARTA 34259 POB....
4527 kHz, 09-05, 1814 UTC RMW46 QSO with outstations RGR97 RGR98 QRQ81 RGR92 (Traffic ZSA ? AND RK)
13975 kHz, 09-05, 0604 UTC RFH2 wkg RAL2

7748 kHz, 09-05
1805 RCIV de RCV QTC ? K
1805 RCV de RCIV QTC 140 4 9 2130 140= FOR RKF81 = NBLIP OWÂPP POPPW K

1805 RCIV de RCV R140 K

11000 kHz, 09-05
1627 RIW QYT9 QSX 16792 K V RIW R K RMMA DE REWK RIW QYT9 QSL K
1628 QSA? K to RAL48 Russian Navy Tug Nikolay Chiker

10309 kHz, 10-05
0352 RCV de RCIV ZZD ? K
0352 RCIV de RCV ZZD 3 K

11000 kHz, 10-05, 1536 UTC RMMA DE RIW then DE RIT QSA?K
6290 kHz, 11-05, 1844 UTC RMP DE RHN85

8345 kHz, 11-05
0244 RCV DE RMYZ QSA2
0517 VVV RMP DE RMI93 QSA?
0518 RMI93 QYT4 QSX 6964 OK?
0523 VVV RCV DE RFH70 QSA?
0524 RCV DE RFH70 QYT4 QSX 10984

6832 kHz, 12-05, 1750 UTC REO de RMP QTC 788 56 12 2018 788 = PRIP PETERBURG 106 KARTA 27047 BOLX 20J PORT SANKT TIRE PETERBURG PODWODNO TIRE TEHNIÔESTJI REBOTY PO POISKU I PODXEMK .....
10543 kHz, 12-05, 1800 UTC RKA80 de RCV QSA ? QTC K

12692 kHz, 12-05
0817 RMP de RAA QTC K
0817 RAA de RMP QRV K
0817 RMP de RAA QTC …. RPT AL K

11000 kHz, 12-05
0930 07451 67873 20199 46966 12028 = RPT AL AR RIW K
0940 RDN DE RIW K signal much weaker
1443 RIW QYT9 QSX 16728 K

7814 kHz, 13-05, 1554 UTC de RHL K – ZHRr ? SJRGYFDCD PGE ...
13971 kHz, 13-05, 1137 UTC RMBB de RCV QRR3 QDW 13971 (Set up simplex encrypted Morse link on this freq). ZZD? ZKM? ZDS ZGZCh ZZT. RMBB to weak to copy
19201 kHz, 13-05, 0902 UTC RCV very weak uncoded weather reports for Adriatic
6831 kHz, 13-05, 1727 UTC REO REO DE RMP RMP QTC 617 Z 13 2TT8 517 = NAWIP

12464 kHz, 13-05
1101 RIW DE RMRV
1104 VVV RIW DE RMRV QSA?
1105 VVV RIW DE RMRV QSA?

8345 kHz, 13-05
1701 VVV RCV DE RFH70 QSA?
1704 RFH70 OK QYT4 QWH 6238
1800 RCV DE RFH70 QYT4 QSX 6912
1914 VVV RCV DE RMYZ QSA?
2214 RMP DE RMI93 OK FOR RHN85 QYT4 QSX 8314
2232 RMP DE RMI93 FOR RHN85 QYT4 QSA?
2237 RMI93 OK FOR RHN85 QYT4 QSX 4153

13971 kHz, 13-05
1048 RCV NR 176 RPT AA 114 K
1048 HPHW ÂKIIR ....
1101 RCV QSL 176
1101 RMBB QTC K

8136 kHz, 14-05, 1600 UTC RDL XXX RDL 15971 90872 REWNOSTNYJ 8808 0300 K

12056 kHz, 16-05
1016 RCRE de RIW K ans SK
1016 RIW de RCRE K and SK

6326 kHz, 16-05, 2223 UTC
Long 5LGs ending 55W687NG6T EIÜJEE9 45957 94HE519T8 94253 T44Ö9 83472 %43 1T3 J7TMIK

12464 kHz, 17-05, 0644 UTC
RAL48: Navy Tug Nikolay Chiker. RIW DE RAL48 136 21 17 1005 136 = SML FOR RJH45 RJH74 = 17061 99299 70401 41598 72106 10208 40152 52002 70300 87400 22213 00226 30101 3//// 4//// 5//// 6//// 17017 = + RAL48 K

8345 kHz, 17-05, 0012 UTC
RAL48: Navy Tug Nikolay Chiker. RIW DE RAL48 205 21 17 0405 205 = SML FOR RJH45 RJH74 = 17001 99292 70415 41598 22506 10194 40148 53008 700..... 3//// 4//// 5//// 6//// 17017 = + RAL48 K OK QRR3 QDW? K OK AS1 K - QRR3 QDW 8122 K

7664 kHz, 18-05, 0418 UTC RMMA DE RIW OK QYT9 QWH 14141 K
7664 kHz, 18-05, 0425 UTC RMMA DE RIW K
19201 kHz, 18-05, 1250 UTC RCV weather reports/forecasts east mediterranean
5855 kHz, 19-05, 0244 UTC RIC87 de RCV QTC 131 50 14 1037 131 = PRIP NOWOROSSIJSK 121 KARTA 32103 …
5235 kHz, 19-05, 0439 UTC RIT89 de RMP ZZD 3 K

10543 kHz, 19-05, 1850 UTC RKA80 de RCV QSA ? QTC K. RKA80 de RCV QCZ K. RCV QSL? 935 ? K.
5855 kHz, 20-05, 0238 UTC RIC87 de RCV QTC 131 50 14 1037 131 = PRIP NOWOROSSIJSK 121 KARTA 32103 …..
5881 kHz, 20-05, 1728 UTC RAO de RMP QTC 426 170 20 2003 426 = PRIP KALININGRAD 88 … //6832 kHz
6832 kHz, 20-05, 1728 UTC RAO de RMP QTC 426 170 20 2003 426 = PRIP KALININGRAD 88 … //5881 kHz

12692 kHz, 20-05
1355 RIT DE RAA
1340 RAA DE RIT + msg

21438 kHz, 21-05
0811 RIP90 de RCV QTC 411 88 18 1302 411 = NAWIP 032 118 KARTA 33204 TURCIÂ UÔE….
0854 RGX90 de RCVQTC 880 151 9 0112 880 = NAWIP ...
1003 XXX 9TIC 81474 MIMIMA 3051 3226 AR

6832 kHz, 20-05, 1636 UTC REO de RMP QTC 745 151 20 1948 745 = smpromnoz pogm ....
7566 kHz, 22-05, 0338 UTC RIP90 de RCV QTC 419 64 21 1343 419 = NAWIP 032 1138 KARTA 33247 PWBERVXE ...
5855 kHz, 22-05, 0222 UTC RIC87 de RCV QTC168 34 21 1400 168 = PRIP NOWOROSSIJSK 133 KARTY 38138 38182 38137 KER ...

21438 kHz, 21-05
0811 RCV : Russian Navy HQ Moscow RUS 0811 CW RIP90 de RCV QTC 411 88 18 1302 411 = NAWIP 032 118 KARTA 33204 TURCIÂ UÔE....
0827 RKB91 de RCV QAP K
0828 RMYZ de RCV QAP K
0828 RIP 90 DE RCV QTC 412 43 18 1303 412 = NAWIP 032 1116 KARTA 35264 TURCIÂ UÔENIÂ WOENNO ..
0837 RFH70 de RCV QSA ? K
0841 RGX94 RCV QTC 883 49 110008 883 = NAWIP 037 1061 KARTA 32325 ITALIÂ UOENIÂ WOENNO MORSKIE PO 24 1600 MAJ PLAWANIE ZAPREQENO RAJONE 43/42/3 ....
1346 RFH70 de RCV QYT4 QLS K
1352 RFH70 de RCV QYT 4 QSX 12398 K
1413 RKB91 de RCV QSA 4 QRV K
1415 RCV QSL 130K
1430 RGX94 de RCV 897 66 22 1310 897 = NAWIP 037 11….
1439 RIP90 de RCV QTC 421 17 22 1322 421 = NAWIP 032 1141 KARTY 33247 33248 POBEREVXE TURCII OGONX ...

7936 kHz, 22-05
0405 RMP de NKA80 K

0405 RKA80 de RMP K
0405 RMP de NKA80 ZZD 1 ZZU 20920/20920 K (

7814 kHz, 22-05
0433 RJE65 de RIR99 ZZD ? K
0433 RIR99 de RJE65 ZZD 1 K

19201 kHz, 22-05
1237 RFH70 de RCV QYT4 QSX 8398 K
1237 RFH70 de RCV QCZ R K
1238 RKZ de RCV QTC 729 92 22 1558 729 = PROGNOZ POGODY OT 1800 22 DO 1800 23 MAÂ SREDIZEMIE MORE CENTR WETER PEREMENNYJ 6/9 MORE 2 WOSTOK ZONA WETER WOSTOONYJ ....

5855 kHz, 23-05. 0245 UTC RIC87 de RCV QTC 163 50 20 2030 163 = PRIP NOWOROSSIJSK 131 KARTA 32103 ÔERNOET MORE STRELXBY ARTILLEREIJSKIE 26 PO 31 MAJ 0400 DO 1600 PLAVANIE ….
11000 kHz, 23-05, 0323 UTC RMMA de RIW QSA 2 K and R K
8345 kHz, 23-05, 1849 UTC RCV de RFH70 K

6832 kHz, 23-05
1612 REO de RMP QTC 23 1953 894 = SML = PROGNOZ POGWDY DO …. OW 24 MAÂ BALTIJSKOE MORE POGODA OPREDELÂET … PERIF …
1747 REO de RMP QTC 754 220 23 2006 754 = PRIP KALININGRAD 95 KARTA 23155 UGOWOSTOÔNAÂ ÔASTX BALTIJSKOGO MORÂ 1 TÔK UÔENIÂ PO LIKWIDACII RAZ LIWA NEFTI 23 TIRE 26 MAJ 0500 DO 1400 RAJONE 55 TIRE 10 TÔK 00 …..

7566 kHz, 23-05
0334 RGX94 de RCV QTC 997 66 22 1320 897 = JIF …
0339 RIP90 de RCV QTC421 18 22 1322 421 ….
0344 RLD69 de RCV QSA ? K

11155 kHz, 23-05
1220 RKA80 de RIT QSA 1 K
1225 RKA80 de RIT QRR 3 QSA ? K
1229 RKA80 de RIT QRR 3 QSA ? K

12464 kHz, 23-05
0834 RIW DE RMMA QSA2 K QYT9 QSX 12480 K - OK QYT9 QSX 11156 K - QYT9 QSA4 K
1316 RIT DE RKA80 QRR3? K
1405 RCV DE RKB91 148 18 23 1800 148 = SML FOR RMP = 11111 28646 76734 87387 83347 ....
1120 RHL80 : Russian Navy 1120 CW RCV de RHL80 K
1122 RIT de RKA80 QSA ? K
1138 RCV de RHL80 ….. (QRM)…
1142 RCV de RHL80 R K
1145 RCV de RHL80 AS 2 k And OK K
1155 RCV de RHL80 ….. (QRM)…
1211 RIT de RKA80 QSA ? K
1214 RCV de RHL80 K
1215 RIT de RKA80 QSA ? K
1218 RIT de RKA80 QSA ? K
1222 RIT de RKA80 QRR 3 ? K
1227 RIT de RKA80 QRR 3 ? K
1234 RCV de RFH70 OK QYT4 QWH 10492 K
1452 RCV de RHL 80 QSA 4 K
1454 QYT 4 QSA 4 K
1511 RCV de RHL 80 QYT4 QWH 6302 K

21438 kHz, 23-05
1137 RHL80 de RCV K and AS 1 K
1142 RHL80 de RCV QYT4 QLS K
1145 RHL80 de RCV QYT 4 QSX 6310 K
1154 RHL80 de RCV QSA 1 QYT 4 QSX 8330 K

1214 RHL80 de RCV AS 1 K
1216 RHL80 de RCV QYT4 QSA 4 WRK k
1233 RFH70 de RCV QYT 4 QSX 10492 K

10543 kHz, 23-05

1437 RBE86 de RCV QTC 506 94 23 1330 506 = NAWIP 038 1147 KARTY 32311 32312 9 3240 ITALIÂ UÔENIÂ WOENNO MORSKIE PO 24 03 00 MAJ PLAWANIE ZAPREQENO A REAJONAH S 733 CENTRAOM 39/47 S 017/22 W I S 731 CENTROM 40/09 S 017/00 W B RAJONE 40/18 S 016/51 W 40/28 S 017/01 W 40/24 S 017/12 W 40/18 S 017/12 W W RAJONE 39/17 S 017/28 W 39/34 S 017/28 W 39/34 S 017/38 W 39/22 S 017/44 W G RAJONE 39/23 S 017/44 W 39/34 S 017/38 W 39/39 S 017/54 W 39/28 S 018/00 W OTM ÉTOT NR 24 0400 MAJ AR (repeat 2 times)
1444 RBE86 de RCVQTC 507 27 23 1331 507 = NAWIP 038 1146 KARTA 32300 ITALIÂ STRELXBY PO 23 2200 MAJ PLAWANIE ZAPREQENO RAJONE E 338 CENTROM 40/26 S 018/19 W OTM ÉTOT NR 23 2300 MAJ AR (repeat 2 times)
1447 RBE86 de RCV QTC 508 9 23 1332 508 = NAWIP 038 1145 OTM 038 1119/14 OTM ÉTOT NR AR (repeat 2 times)
1451 RHL80 DE RCV QSA ? K
1453 QYT 4 QSA ? K
1454 RIP90 de RCV QTC 422 38 23 1333 422 = NAWIP 033 1144 KARTA 322 26 KIPR STRALXBY 26 28 I 30 MAJ 1000 DO 1300 RAJONE 35/01 S 034/22 W 35/16 S 034/22 W 35/16 S 034/32 W 35/05 S 034/32 W OTM ÉTOT NR 30 1400 MAJ AR
1510 RHL80 de RCV QSA ? K
1511 RHL80 de RCV R K
1838 RHL80 de RCV QSA ? K
1838 RHL80 de RCV QRU ? K
1843 RHL80 de RCV QWU NO K (QWU Message nr .... has been sent ....times, please confirm!)
1849 RFH70 de RCV K

10356 kHz, 23-05

1427 RIT DE RKA80 ZZD ? K ZKM? K ODINTRINOLX ZSL? K
1427 RKB80 DE RIT ZZD 2 - ZVP K - ZCS RKA80 DE RIT ZN NOLXNOLXÖESTXZNL ? ZSL K

14556 kHz, 13-05, 1319 UTC rka80 de rit qrr3 qdw 10546 k

8345 kHz, 23-05, 0006 UTC RAL48: Navy Tug Nikolay Chiker RIW DE RAL48 144 21 24 0405 144 = SML FOR RJH45 RJH74 = 24001 99537 70126 41498 70114 10079 40167 57003 70300 87400 20213 00114 20404 3//// 4//// 5//// 6//// 24017 = + RAL48 K (the 20212 should be 22213 I suppose)

12464 kHz, 24-05, 0630 UTC RAL48: Navy Tug Nikolay Chiker RIW DE RAL48 208 21 24 1005 208 = SML FOR RJH45 RJH74 = 24061 99549 70116 41498 60112 10088 40167 54000 70122 86100 22213 00115 20403 3//// 4//// 5//// 6//// 24017 = + RAL48 K

19201 kHz, 23-05

0828 RHL80 DE RCV K (nil)
XXX XXX RJV RJV 42637 GORMONOID 0701 2162 K 2
XXX XXX RJV RJV 91444 PILÜTNYJ 5514 6393 K

21438 kHz, 24-05

1440 RGX94 de RCV QTC 898 191 14 1415 898 = NAWIP 037 1160 KARTA 3 1035 POBEREVXE KORSIKI PODWODNYE RABOTY 27 MAJ PO 01 IÛ SUDNOM EUROPE RAJONE MEVDU 42/59 S 009/28 W 42/59 S 009/37 W 42/47 S 009/45 W 41/59 S 009/45 W 41/40 S 010/00 W 41/30 S 010/00 W 41/28 S 009/25 W 41/37 S 009/21 W I BEREGOM OTM ÉTOT NR 02 IUNX NAWIP 036 1159 KARTA 32348 FRANCIÂ TRELXBY RAKETNYE 26 MAJ 1230 DO 1600 I 27 MAJ 0630 DO 1600 PLAWANIE ZAPREQENO RAJONE 42/40 S 006/15 W 42/56 S 006/12 W 43/05 S 006/29 W 43/08 S 006/40 W 43/05 S 007/02 W 42/47 S 007/02 W 42/40 S 006/49 W OTM ÉTOT NR 27 1600 MAJ NAWIP 036 1158 KARTA 31036 FRANCIÂ STRELXBY RAKETNYE I ARTILLERIJSKIE 26 I 27 MAJ 1900 DO 2300 RAJONE 41/55 S 005/54 W 42/25 S 005/54 W 42/25 S 006/40 W 41/55 S 006/40 W OTM ÉTOT NR 27 2300 MAJ NAWIP 036 1157 KARTA 31036 FRANCIÂ STRELXBY RAKET NYE I ARTILLERIJSKIE 26 MAJ 0800 DO 1800 RAJONE 42/10 S 005/54 W 42/40 S 005/54 W 42/40 S 006/40 S 42/10 S 006/0 W OTM ÉTOT NR 26 1800 MAJ = AR
1505 RGX94 de RCV QTC 899 151 14 1416 899 = NAWIP 036 1156 KARTA 31036 FRANCIÂ STRELXBY ARTILLERIAASKIE 28 MAJ 0900 DO 1000 RAJONE 42/10 S 005/30 W 42/25 S 005/30 W 42/40 S 005/38 W 42/40 S 006/40 W 42/10 S 006/40 W OTM ÉOTO NR 28 1000 MAJ NAWIP 036 1125 KARTA 31036 FRANCIÂ STERLXBY 27 MAJ 1930 DO 2130 RAJONE 42 /47 S 006/40 W 41/08 S 006/40 W 43/05 S 007/02 W OTM ÉTOT NR 27 2130 MAJ NAWIP 036 1154 KARTA 31036 POBEREVXE FRANCII PODWODNYE RABOTY 28 I 29 MAJ SUDNOM TEMHYS RAJONE MAVDU 43/03 S 005/52 W 42/56 S 005/43 W 42/56 S 005/38 W 43/00 S 005/00 W 43/23 S 004/56 W I BEREGOM OTM ÉTOT NR 30 MAJ NAWIP 036 1153 KARTA 32347 LIONSKIJ ZALIW PODWODNYE RABOTY 26 MAJ PO 01 IÛNX SUDNOM GEOMINES RAJONAH RADUNOM 4000 METROW IZ 43/16/0 S 004/51/3 W I 43/06/5 S 003/11/3 W WTOM ÉTOT NR 02 INÛUX

10543 kHz, 24-05

1527 RIP90 de RCV QTC 424 30 24 1422 424 = NAWIP 033 1152 KARTA 32225 TURCIÂ STRELXBY 26 PO 29 MAJ 0700 DO 1530 RAJONE LT D 13 ADANA CENTROM 36/29 S 035/08 W OTM ÉTOT NR 29 1630 MAJ = AR

1530 RHL80 de RCV QSA ? K

6989 kHz, 24-05, 2008 UTC RAL2 QSO with outstations RHQ2 RBL66 ZNN and SK

11064 kHz, 24-05, 1648 UTC RIT: Severomorsk Naval Radio. Encrypted Morse sked in progress: ö V X Z H R L M T G ... RKA80 de RIT ZGR ? K ... Simplex net.

12464 kHz, 24-05, 0802 UTC RKB91: Navy AO Kola RUS 0802 CW RCV de RKB91 QSA 4 K

10543 kHz, 25-05

0330 RBE86 de RCV QTC 509 9 24 1418 509 = NWAREA 034 267 OTM 034 260/14 OTM ÉTOT NR = AR

0333 RIP90 de RCV QTC 423 39 24 1420 423 = NAWAREA 033 266 OTM 033 183/14 PEREOBXÂWLENO NAWIP 033 1151/14 OTM ÉTOT NR NAWIP 033 1151 KARTA 34231 SEWERNEE EGIPTA BPU SCARABEO 4 W 31/52/1 S 032/01/9 W NAWIP 032 1150 OTM 032 1082/14 032 1141/14 OTM ÉTOT NR

0337 RHL80 de RCV QSA ? K

0338 RIP90 de RCV RPR QTC 423 39 24 1420 423

0341 RGX94 de RCV RPT QTC 898 191 14 1415 898 =

0631 RIP90 de RCV QTC 424 30 24 1422 424 = NAWIP 033 1142 KARTA 32225 TURCIÂ STRELXBY 26 PO 29 MAJ 0700 MO 1530 RAJONE LT D DO 1530 RAJONE LT D 13 ADANA CENTROM 36/29 S 035/08 W OTM ÉTOT NR 29 1630 MAJ

0631 RIP90 de RCV QTC 422 38 23 1333 422 = NAWIP 033 1144 KARTA 32226 KIPR STRELXBY 26 28 I 30 MAJ 1000 DO 1300 RAJONE 35/00 S 034/22 W 35/16 S 034/22 W 35/16 S 034/32 W 35/05 S 034/32 W OTOM ÉTOT NR 30 1400 MAJ

0741 RIP90 de RCV QTC 417 37 20 1344 417 = NAWIP 032 1131 KARTA 322 ….

0756 RHL 80 de RCV QSA ? K

0757 RFH70 de RCV QSA K

0759 RKB91 de RCV QSA ? K

0802 RKB91 de RCV QAP K


M32b
Russian Naval Aviation
Aviatsiya Voenno-morskogo Flota Rossii

12720 kHz, 20-05, 1305 UTC RJC48 RJC48 RJC48 DE RJF94 RJF94 qsa ? k

8816 kHz, 23-05

0740 RCB RJF94 DE 26927 QQL ULPE 0717 QBD 3400 K - QTH 6112 3224 QTR 0817 QRE XLLP 0850 K - QQM XLLP 0900 SK

1015 RJC38 RJF94 DE 26927 QTO 1004 QRD XLWF XLLP QRE 1140 QBD 5000 K - QTH 5958 3550 QTR 1053 QBD 3900 QRE XLWF 1140 K QQM XLWF 1130 SK

1416 RJC38 RJF94 DE 26927 QTO 1400 QRD XLMV XLWF QRE 1730 QBD 4900 K - QAY XLPB 1507 QBD 3900 QBG 5500 K – QQL ULPE 1557 QBD 2900 QRE XLMV 1720 K

7980 kHz, 24-05, 1617 UTC ...8 de RJF94 QSA ? K. RJF94 R K. Alternative freq. ...8 not heard.


M32c
Russian Air Force
Voyenno-vozdushnye sily Rossii

7942 kHz, 18-04, 0341 UTC REA4 K.

8895 kHz, 19-05, 0619 UTC TV6P QRV K. Very weak three figure message. TV6P is fixed control call sign as used during Summer period 2013.

8895 kHz, 19-05, 0640 UTC W-markers

8895 kHz, 19-05, 1020 UTC W-markers

8895 kHz, 27-05, 1856 UTC F3NE de 1JTN QSA_ QRV K. RPT 2 K. 1JTN =

	058 311 63_ _04 008 647 697 K. (2 attempts). Weak. Followed by G-marker at 19:00 which was in its turn stepped on by W-marker at 19:01
8895 kHz, 27-05, 1946 UTC	FYNE de 1JTN QSA1 QSV K. Repeated at 19:53. FYNE de 1JTN QSA2 QRV K.
8895 kHz, 27-05, 1840 UTC	W-marker.
8895 kHz, 27-05, 1920 UTC	G-marker blasted by stronger W-marker
8895 kHz, 27-05, 1820 UTC	G-marker
8895 kHz, 27-05, 1750 UTC	TV6P RPT K. YMKK de TV6P QRV K. YMKK de TV6P = 923 260 784 148 C ? K. OK SK SK K.
8895 kHz, 27-05, 1755 UTC	FYNE de TV6P QSA2 QRV K. FYNE de TV6P = 788 933 493 034 941 7814 660 C ? K. RPT GR3 K. FYNE DE TV6P = 788 133 493 034 941 784 660 C ? K
8895 kHz, 27-05, 1804 UTC	FYNE DE IZ2J K. Alt NCS or is 8895 an outstations freq?
8895 kHz, 27-05, 1724 UTC	TV6P = 135 .07 001 832 .35 724 ..0 C ? K.
8895 UTC, 27-05, 1740 UTC	W Markers

EMERGENCY ACTION MESSAGES & SKYKING MESSAGES

Contributors: Ary, Dave, John & John I.

Frequencies: 6739, 8992, 11175 kHz

1 May

0700 Mainsail: 30 chr EAM XVUECQ
0702 Mainsail: 30 chr EAM XV2TOL
0704 Mainsail: 30 chr EAM XVVFRZ
0806 Mainsail: 125 chr EAM ETW4QB GKOUFJHUCRD45XWSSLT3FRNWYIMOK6POY4II3DA23C2WT5WGBRZKFXOUU NNNN7ASALVQCQICH2TX55TEWWWW67S7VBAAUFESEUMH6UZYLSR2WW446BTQVLU
0812 Mainsail: Skyking Skyking do not answer. 7EZ time 12 authentication
0813 Mainsail: 125 chr EAM ETW4QB repeat
0829 Mainsail: 125 chr EAM ETW4QB repeat
0900 Mainsail: 125 chr EAM ETW4QB repeat. Stops halfway msg for Skyking msg
0902 Mainsail: Skyking Skyking do not answer. R4D time 02 authentication XU
0903 Mainsail: 125 chr EAM ETW4QB repeat
0930 Mainsail: 125 chr EAM ETW4QB repeat
1132 Mainsail: Skyking Skyking do not answer. RRK time 32 authentication OF
1223 Mainsail: Skyking Skyking do not answer. EZN time 23 authentication GX
1332 Mainsail: 30 chr EAM For Novelty Chain RFQXFR QXVXSVQB4DDPAKLCZIBEKNHJ
1402 Mainsail: 30 chr EAM For Novelty Chain RFQXFR QXVXSVQB4DDPAKLCZIBEKNHJ
1451 Mainsail: RF77QH for THROATUS??? 30 chr EAM
1543 Mainsail: 30 chr EAM E5ODY2 5BVF4WTF7XPTCIOOFGVSLGEJ
1545 Mainsail: 30 chr EAM E5DR4H VVAMAF72QDDBN5ORMUJCZABQ
1549 Mainsail: Skyking Skyking do not answer. E3V time 49 authentication AP
1550 Mainsail: 30 chr EAM E5EHC6 ZQZQGEPETLOGNUDBX5BGBKEF
1610 Mainsail: E5K2T4 30 chr EAM
1615 Mainsail: E5IFXS 30 chr EAM
1855 Mainsail: E5NWB2 30 chr EAM
2000 Mainsail: E5NWB2 repeat

2 May

0522 Mainsail: 30 chr EAM E5JBNC E7F3EOPBZDCHY7QGBRQTXRJK
0526 Mainsail: 30 chr EAM E5YWLU JTVWY6GLBFKZZBONFQO2YKZN
0528 Mainsail: Skyking Skyking do not answer. DT6 time 28 authentication JQ
0530 Mainsail: 30 chr EAM E5YWLU JTVWY6GLBFKZZBONFQO2YKZN
0532 Mainsail: 30 chr EAM E5YWLU JTVWY6GLBFKZZBONFQO2YKZN
0543 Mainsail: 30 chr EAM E5EWJH NXSDDY4JJPBW632I7BCJMKAX
0551 Mainsail: 30 chr EAM E5ICF6 VSSNO27IALS6ACOPXeV3UDIF
0600 Mainsail: 30 chr EAM E5EWJH NXSDDY4JJPBW632I7BCJMKAX

0658 Mainsail: Skyking Skyking do not answer. L24 time 58 authentication LG
0720 Mainsail: Skyking Skyking do not answer. LPU time 20 authentication XB

3 May
0603 Mainsail: 30 chr EAM E5QOT6 CKU6VO4KJTO3V4NMW5AOQB33
0630 Mainsail: 30 chr EAM E53TAK NYLWKQHOA4YHK242DZ5EDQVM
0632 Mainsail: 30 chr EAM E5QOT6 CKU6VO4KJTO3V4NMW5AOQB33
0712 Mainsail: Skyking Skyking do not answer. 74Q time 12 authentication FV
0742 Mainsail: Skyking Skyking do not answer. FRG time 52 authentication BB
1322 Mainsail: E533D4 30 chr EAM
1328 Mainsail: E5WGKJ 30 chr EAM
1330 Mainsail: E5WGKJ repeat
1333 Mainsail: E5BVXU 30 chr EAM
1335 Mainsail: E533D4 repeat
1339 Mainsail: E5PU3G 30 chr EAM
1412 Mainsail: F7U 42 UG Skyking DNA
1453 Mainsail: RFE4YQMGWKOVCXCW5HZM5PJCHN3RBF for BELL? 30 chr EAM
1500 Mainsail: RFE4YQ for BELL Repeat
1530 Mainsail: RFE4YQ for BELL repeat
1600 Mainsail: RFE4YQ for BELL Repeat
1630 Mainsail: RFE4YQ for BELL Repeat
1630 Mainsail: RFCMISDHUAB573LGG4DWCPK 23 chr EAM
1707 Mainsail: RFTC6S for BELL 30 chr EAM
1727 Mainsail: E55BQE 30 chr EAM
1738 Mainsail: PIGTB5 ?? Chr EAM

4 May
0100 Mainsail: For HAYLOFT, For WIGWAG RFWYHW
0137 Mainsail: For HAYLOFT, For WIGWAG RFWYHW
0103 Mainsail: Skyking DNA - YET T03 DF
0104 Mainsail: RFGUGT then "disregard"
0104 Mainsail RFGVGT 34 character message
0134 Mainsail: RFGVGT 34 character message
0109 Mainsail: RFTSS then "disregard”
0110 Mainsail: RFTWSS
0130 Mainsail: RTFWSS
0133 Mainsail: E5HQ5T

5 May
1324 Mainsail: Skyking Skyking do not answer. OYH time 24 authentication YO
1516 Mainsail: 30 chr EAM E5MOHI FL4LNNQMBKL6EDILGEOECSOB

6 May
1349 Mainsail: 30 chr EAM E5DEJB YYTFX7EAOX4I7VC7Z444F3PD
1400 Mainsail: 30 chr EAM E5DEJB YYTFX7EAOX4I7VC7Z444F3PD
1421 Mainsail: 30 chr EAM E52FVJ GBSSSK6RNR2PIWSDPIESE2LQ
1428 Mainsail: 30 chr EAM E5XKDI 2YSSVJHDKS5ZGQ2DA3AN7KKE
1430 Mainsail: 30 chr EAM E52FVJ GBSSSK6RNR2PIWSDPIESE2LQ

7 May
0631 Mainsail: Skyking Skyking do not answer. QN3 time 31 authentication DB
0749 Mainsail: Skyking Skyking do not answer. G46 time 49 authentication UJ
1417 Mainsail: E5J3U6YY2VV6QXSMFZQI6XNI6WSLYP 30 chr EAM
1425 Mainsail: EAX 25 YI Skyking DNA
1430 Mainsail: E5J3U6YY2VV6QXSMFZQI6XNI6WSLYP 30 chr EAM
1434 Mainsail: PIHZFHXCEXA2DC5L62FC3RJFC3CJFC37HYSSEC5K3AU6 44 chr EAM
1600 Mainsail: E5XHLJLUM7EPW4TNXV3PIOMUVUQU4D 30 chr EAM
1602 Mainsail: E5J3U6YY2VV6QXSMFZQI6XNI6WSLYP 30 chr EAM repeat
1604 Mainsail: PIHZFHXCEXA2DC5L62FC3RJFC3CJFC37HYSSEC5K3AU6 4 chr EAM repeat
1625 Mainsail: E543UV7FD5GULWG6AQZMJIXFUWSAI5 30 chr EAM

1627 Mainsail: E5WJYYVEOURVL5YXBXGEQDO4P2LRUJ 30 chr EAM
1630 Mainsail: E5WJYYVEOURVL5YXBXGEQDO4P2LRUJ 30 chr EAM repeat
1632 Mainsail: E543UV7FD5GULWG6AQZMJIXFUWSAI5 30 chr EAM repeat
1634 Mainsail: E5XHLJLUM7EPW4TNXV3PIOMUVUQU4D 30 chr EAM repeat
1823 Mainsail: YNH 23 FN Skyking DNA
1841 Mainsail: JM6 41 CQ Skyking DNA
2030 Mainsail: E5QG3VWBOIQO4F2WFP3A477DETFKQJ 30 chr EAM
2036 Mainsail: E5NEZPWCSHPNOL75HPR3CLP6O3JXFK 30 chr EAM
2042 Mainsail: E5DNACYRICS5LRY7JMZUI5ECIXOMC2 30 chr EAM
2050 Mainsail: E5I7AHMYEJXLEG5UEWQF7Y7JLU6EXL 30 chr EAM
2057 Mainsail: E5ZZKWI2JSTBOZC3L3GXXGCSZLET7I 30 chr EAM
2059 Mainsail: E5JTIDCPAKDPIT4N4ZB77H7CUT5ZQL 30 chr EAM
2101 Mainsail: E5I7AH disregard after 3 characters
2103 Mainsail: DVR 03 CK Skyking DNA
2103 Mainsail: E5I7AH 30 chr EAM repeat
2106 Mainsail: E5DNAC 30 chr EAM repeat
2109 Mainsail: E53DBXPRFEZWPOX5NAIY3KQQ7VJVNX 30 chr EAM

8 May
1326 Mainsail: E57MG2JYRYCFNE5JEGMDLNYQFVXUK3 30 chr EAM
1330 Mainsail: E57MG2JYRYCFNE5JEGMDLNYQFVXUK3 30 chr EAM repeat
1349 Mainsail: E52VDE 30 chr EAM
1401 Mainsail: E545PJ 30 chr EAM
1403 Mainsail: E52VDE repeat
1405 Mainsail: E57MG2 repeat
1431 Mainsail: E5FYKG 30 chr EAM
1434 Mainsail: E545PJ repeat
11175 Mainsail: E52VDE repeat
1825 Mainsail: E53S4AOCJORXCSYAVAUXYB2WE4UERX 30 chr EAM
1827 Mainsail: E54LHAVTFPPLOCE5FFJT5YMPE2RM6P 30 chr EAM
1831 Mainsail: E5ZNLPBCR63JGLB3TT3O5CW2MSTQTU 30 chr EAM
1832 Mainsail: E5RPF3SFHEZDEZIRA7DGGZ3DWRU7ZV 30 chr EAM
1833 Mainsail: E54UNEIY5XEOIEDDDOIUYZ5CVYJBCWR 30 chr EAM
1835 Mainsail: E5LQPZ2I3YZUBAIVTGWLHQNT622WG7 30 chr EAM
1837 Mainsail: E5O4EOVEIMPOT3LOLGGP5IZJTZPFMP 30 chr EAM
1950 Mainsail: PIX7HZ3MYIASAEZGGPR5?PTXRBGXCX 30 chr EAM
2016 Mainsail: E5OB5SCUE4IFDTP4HVJMVTWHMZ4KQS 30 chr EAM
2018 Mainsail: E55ZP6QX575NLPIKRPFDTV5ENQCSP5 30 chr EAM
2055 Mainsail: E5I66NKUWBXRWGJ7BDXQA3NCPSZIAM 30 chr EAM

9 May
1322 Mainsail: 39 chr EAM PIRQGE KT2RGJ6B5DTYJUTFMELJ2WZHOBQX2AJPG
1330 Mainsail: 39 chr EAM PIRQGE KT2RGJ6B5DTYJUTFMELJ2WZHOBQX2AJPG
1332 Mainsail: 30 chr EAM E5YXYX FZ4BQPSGCK2QYXOZ2YF67UYS
1341 Mainsail: 30 chr EAM E56RC4 I4CVKDDYCKL7XNKTDTIYHUKU
1347 Mainsail: 30 chr EAM E5HUNP J7VX6SIRSIB7IZFYF2GPEW63
1400 Mainsail: 30 chr EAM E5HUNP J7VX6SIRSIB7IZFYF2GPEW63
1402 Mainsail: 30 chr EAM E56RC4 I4CVKDDYCKL7XNKTDTIYHUKU
1403 Mainsail: 39 chr EAM PIRQGE KT2RGJ6B5DTYJUTFMELJ2WZHOBQX2AJPG
1446 Mainsail: Skyking Skyking do not answer. KGJ time 46 authentication BA
1451 Mainsail: 30 chr EAM E52K3V ROQUNZYJL3Z6EAHQS4GYIZP4
1500 Mainsail: 30 chr EAM E52K3V ROQUNZYJL3Z6EAHQS4GYIZP4
2047 Mainsail: E5HO5LESMUWHJGUTFZYOPDD6LNBKVI 30 chr EAM
1052 Mainsail: E5IGKX 30 chr EAM
1054 Mainsail: E57ZCN 30 chr EAM
2100 Mainsail: E57ZCN repeat

10 May
0455 EAM For Battle Euro, PIKHERRZGBOIQUJSB2Y2XRCDNPCH6
1352 Mainsail: E5XFQJ DWZZRQPQDBTAX7WZNVN2PLLK 30 chr EAM

1356 Mainsail: E5SCMK 23CORKLLGX2RIPGPGPMPFNKC 30 chr EAM
1400 Mainsail: E5SCMK repeat
1402 Mainsail: E5XFQJ repeat
1406 Mainsail: E5HVFE M4M3K27F4BMRRZX77SEOGQLJ 30 chr EAM
1442 Mainsail: PIRISL OGQGYBCNRNABOCHNOXUSAED7 FOR ?? 55 30 chr EAM
1512 Mainsail: E5VKVZ SBT2C3EN7NLLNGVTUEWXMHTN 30 chr EAM
1910 Mainsail: WXF 10 H? Skyking DNA

11 May

1345 E5V7PV 4UYXKQGBNVBIYRWEU24W7UM7 30 chr EAM actually reads EWV7P on the repeat and rereads the whole message the third time round.
1400 E5V7PV repeat
1430 E5V7PV repeat
1450 42K 50 DN Skyking DNA
1451 42K 51 DN Skyking DNA
1455 UK2 55 FF Skyking DNA
1520 PIGL4S 36F3AZ37SYBJ4OGYBYOP4ZR2 for 34 30 chr EAM
1741 E5LWCA VMJ6NPPGFEEZQQ57FIZ7FBQY 30 chr EAM
1748 E5RN4X OQJ42?3TTJ3?WZ55OB2TZNKZ 30 chr EAM
1751 E5ZRXX 30 chr EAM

12 May

1117 KKC 17 GI Skyking DNA
1117 BSU 17 GI Skyking DNA
1146 PI63VU NCMFUN4FVPES2WOKLKV3KICT for TRIKO 70 30 chr EAM
1208 BZ3 08 WY Skyking DNA
1217 E5VMPV U6E2TIQ37QW63YTFSYAV2ROZ 30 chr EAM
1408 Mainsail with a test count 12345 54321 Mainsail Out
1414 MCclellan with a test count 12345 54321 McClellan Out
1420 Hickam with a test count 12345 54321 Hickam Out
1425 35G 25 OV Skyking DNA
1432 E5QWIF 7RSPJE7YP3FYMGQOHBAE5CEE 30 chr EAM
1435 QUA 35 IP Skyking DNA
1500 E5QWIF repeat
1533 E5QWIF repeat
1538 Mainsail with a test count 12345 54321 Mainsail Out
1601 E5G7C5 444IILX27ZIMJCTVILSE26NS 30 chr EAM
1603 E5QWIF repeat

15 May

1256 Mainsail: Skyking Skyking do not answer. 7GH time 56 authentication QG
1443 Mainsail: 30 chr EAM E5F2ZY HQYUM4RUX5XNDP2K2K6WQLAE
1502 Mainsail: E5F2ZY repeat
1505 Mainsail: E5TVWO 2KJM2RRSPU34TUWVRYOWGBAH 30 chr EAM
1507 Mainsail: E54XBB 3TCMD235I5JO4Z4SGJUUTBYQ 30 chr EAM
2049 Mainsail: J6L 49 ZW Skyking DNA after two disregards

16 May

0917 Mainsail: Skyking Skyking do not answer. RVN time 17 authentication MD
0855 Mainsail: 78 chr EAM PI7TBQ JTYU6YJBXG6CBBFLYFXZF4W7BRX72ORPVPZ4YA72DRGHDTR3Y72WR YGW7BRX72TZSVPZ4YAD
1001 Mainsail: Test count 12345 54321
1528 Mainsail: KB7 28 CL Skyking DNA
1815 Mainsail: Test Count 12345 54321
1823 Mainsail: PIZA7S GAZWLI47W5Y55FYPMKCOWKXT for EDGAR 91 30 chr EAM
1830 Mainsail: PIZD7S GAZWLI47W5Y55FYPMKCOWKXT for EDGAR 91 30 che EAM
1853 Mainsail: E5S6RM 6ILBLRY5633CTKQI4233NBZ7 30 chr EAM
1900 Mainsail: E5S6RM repeat
1903 Mainsail: PIZA7S repeat

1906 Mainsail: Test Count 12345 54321
1945 Mainsail: E5N74T VSGBR5CTV5QVSWKFRQIEAELM 30 chr EAM
2000 Mainsail: E5N74T repeat
2030 Mainsail: E5N74T repeat
2037 Mainsail: E5LK3J BUWGMYZDM23LKWYX7B2H4QHL 30 chr EAM
2041 Mainsail: E5AEMV VNJUZ4ECJSV7VBNL4E3WFIHV 30 chr EAM
2102 Mainsail: E5LK3J repeat
2104 Mainsail: E5N74T repeat
2106 Mainsail: PIFS75 QRGPWMWXIWGCMUISEKBNKT33 for DELENA?? 30 chr EAM
2153 Mainsail: EY3 53 ZD Skyking DNA

17 May
1753 Mainsail: E5YYXR 30 chr EAM
1802 Mainsail: TY5 02 TX Skyking DNA
1802 Mainsail: E5YYXR repeat
1926 Mainsail: PIUPPK K52BI7MIKHPJ2NSCMBUQA7TIM for RAVEN 30 chr EAM
1929 Mainsail: KTB 29 ?? Skyking DNA
1930 Mainsail: PIUPPK K52BI7MIKHPJ2NSCMBUQA7TIM for RAVEN repeat
1931 Mainsail: E5KXVN 30 chr EAM
1944 Mainsail: E5PCWP 30 chr EAM
1949 Mainsail: E5PQDT 30 chr EAM
2000 Mainsail: E5PQDT repeat
2002 Mainsail: E5PCWP repeat
2004 Mainsail: PIUPPK for ?? 30 chr EAM
2023 Mainsail: E5JJUG 30 chr EAM
2030 Mainsail: E5JJUG repeat
2032 Mainsail: E5PQDT 30 chr EAM
2034 Mainsail: E5PCWP 30 chr EAM
2046 Mainsail: PIXRQD HTLXAOIPG77EFDA2I 23 chr EAM
2057 Mainsail: E5ZBQD MQZMPV26CPFPGPMP2YBO3I?T 30 chr EAM
2059 Mainsail: PIXRQD repeat
2101 Mainsail: E5JJUG repeat
2103 Mainsail: E5G5LF 30 chr EAM

18 May
1230 Mainsail: E5ILXM 30 chr EAM
1300 Mainsail: E5ILXM repeat
1330 Mainsail: E5ILXM repeat
1531 Mainsail: E5DST5 30 chr EAM
1534 Mainsail: E5DXVG 30 chr EAM
1931 Mainsail: E5EN5S 30 chr EAM
1933 Mainsail: PIVEK7 for ?? 04 30 chr EAM
2027 Mainsail: J6V 27 HA Skyking DNA

20 May
0126 Mainsail: 30-character message
0135 Mainsail: (repeat above)
0157 Mainsail: Skyking Do Not Answer AEA <QRM> authentication VB
0202 Mainsail: 30-character message
0222 Mainsail: 30-character message
0227 Mainsail: Skyking Do Not Answer WCV <QRM>
1131 Mainsail: P44 31 CP Skyking DNA
1135 Mainsail: P44 35 G? Skyking DNA
1143 Mainsail: UOX 43 FT Skyking DNA
1147 Mainsail: MCK 47 SQ Skyking DNA disregard on second reading
1148 Mainsail: MCK 48 TT Skyking DNA
1416 Mainsail: PI27N6 30 chr EAM
1441 Mainsail: 5DR 41 NY Skyking DNA
1505 Mainsail: PIRLEW 39 chr EAM
1534 Mainsail: PITLEW repeat

1541 Mainsail: E5RVEM 30 chr EAM
1543 Mainsail: GHTSA3 30 chr EAM
1600 Mainsail: GHTSA3 repeat
1637 Mainsail: GHCJ44 30 chr EAM
1655 Mainsail: GHQU3W 30 chr EAM
1700 Mainsail: GHQU3W repeat
1738 Mainsail: GHQU3W repeat
1833 Mainsail: PI5XW? For ?? 19 30 chr EAM
1757 Mainsail: GHHO5D 30 chr EAM

26 May
1406 GHGKJT 30 chr EAM
1438 GHGKJT repeat
1455 GHGGPQ 30 chr EAM
1500 GHGGPQ repeat
1502 GHGKJT repeat
1522 GHRSRR 30 chr EAM
1530 GHMOXK 30 chr EAM
1532 GHRSRR repeat
1534 GHGGPQ repeat
1536 GHGKJT repeat disregard

LOGS SECTION

Sorted on Enigma/N&O code, Date and Time.

code	freq	date	UTC	day	remarks	mode	contributor
---	3828.4	5-5-2014	2000	Mon	Unid i.p. ... FOR 433201993 FM 357027 FOR 433201 ... FM 572602 FOR 385027 K ...	CW	(MPJ)
---	4061	12-5-2014	1902	Mon	Unid VG44 QTC 2 05 00/BY/49/05/080/14/ NW NW ===== WWPMZ/08/WWOJX/ NW NW /080/10/BBONK/3/STOP/AAGYX QSL ??? K (simplex net with 2 stations)	CW	(F5JBR)
---	4061	13-5-2014	0302	Tue	VG44 QTC 0440/BY/47/05/084/11/STOP/WWOJX/330/04/WWPMZ/05/BBONK AR AR (simplex net)	CW	(F5JBR)
CNH	16023	4-5-2014	0054	Sun	Chinese diplo	4+4 LSB	(MCO)
CNH	16506	4-5-2014	0057	Sun	Chinese diplo	4+4 LSB	(MCO)
DPRK	12338.4	30-5-2014	0707	Fri	North Korean Diplo	DPRK-ARQ 600/600	(PPA)
DPRK	13778.4	26-5-2014	0706	Mon	North Korean Diplo	DPRK-ARQ 600/600	(PPA)
DPRK	14442.5	31-5-2014	0533	Sat	North Korean Diplo	DPRK-ARQ 600/600	(PPA)
DPRK	16118.5	27-5-2014	0735	Tue	North Korean Diplo	DPRK-ARQ 600/600	(PPA)
DPRK	16323.5	27-5-2014	0744	Tue	North Korean Diplo	DPRK-ARQ 600/600	(PPA)
DPRK	18035	22-5-2014	1057	Thu	North Korean diplo	DPRK-ARQ 600/600	(MCO)
DPRK	18322	29-5-2014	0734	Thu	North Korean diplo	DPRK-ARQ 600/600	(Nico)
DPRK	18323.4	29-5-2014	0749	Thu	North Korean Diplo	DPRK-ARQ 600/600	(PPA)
DPRK	18448.5	15-5-2014	0540	Thu	North Korean diplo.	DPRK-ARQ 600/600	(DK8OK)
DPRK	19818.5	15-5-2014	0556	Thu	North Korean diplo.	DPRK-ARQ 600/600	(DK8OK)
E06	5731	2-5-2014	2130	Fri	315-679/20=37839	USB	(HFD)
E06	5948	1-5-2014	2030	Thu	724-461/20=14259	USB	(HFD)
E07	10547	1-5-2014	2010	Thu	553 0 only carrier	USB	(HFD)
E07	10547	1-5-2014	2030	Thu	553 0	USB	(HFD)
E07	11512	5-5-2014	1940	Mon	845 1	USB	(HFD)
E07	11512	26-5-2014	1940	Mon	845 436 75 50838 35505 86718 ... 10860 49439 10736 000 000	USB	(GHn)
E07	11512	28-5-2014	1940	Wed	731 436 75 50838 35505 86718 ... 10860 49439 10736 000 000	AM	(GHn)
E07	11539	1-5-2014	2010	Thu	553 0	USB	(HFD)
E07	12163	4-5-2014	1740	Sun	731 1	USB	(HFD)
E07	13363	4-5-2014	1720	Sun	731 1	USB	(HFD)
E07	13363	18-5-2014	1720	Sun	733 731 731 000	USB	(SP1)
E07	13363	28-5-2014	1840	Wed	731 436 75 50838 35505 86718 ... 10860 49439 10736 000 000	AM	(GHn)
E07	13412	5-5-2014	1920	Mon	845 1	USB	(HFD)
E07	13412	26-5-2014	1920	Mon	845 436 75 50838 35505 86718 ... 10860 49439 10736 000 000	USB	(GHn)

code	freq	date	UTC	day	remarks	mode	contributor
E07	14763	4-5-2014	1700	Sun	731 1-570/85=26346	USB	(HFD)
E07	14812	5-5-2014	1900	Mon	845 1-728/26=75161	USB	(HFD)
E07	14812	21-5-2014	1900	Wed	845 41 62 04679 10914 16734 ... 13049 50466 29553 000 000	USB	(GHn)
E07a	7437	1-5-2014	0430	Thu	411 0	USB	(HFD)
E07a	8137	1-5-2014	0450	Thu	411 0	USB	(HFD)
E07a	8173	7-5-2014	2000	Wed	147 147 147 000	USB	(AB)
E07a	11082	2-5-2014	1530	Fri	101 0	USB	(HFD)
E07a	12177	10-5-2014	0800	Sat	148 0	USB	(HFD)
E07a	12177	17-5-2014	0800	Sat	148 1 38986 270 45 44397 93806 36003 ... 62914 77094 91573 000 000	USB	(AB)
E07a	12182	2-5-2014	1510	Fri	101 0	USB	(HFD)
E07a	13477	10-5-2014	0820	Sat	148 0	USB	(HFD)
E07a	13477	17-5-2014	0820	Sat	148 1 38986 270 45 44397 93806 36003 ... 62914 77094 91573 000 000	USB	(AB)
E11	4909	3-5-2014	1445	Sat	287/00	USB	(HFD)
E11	8088	1-5-2014	1730	Thu	416/00	USB	(HFD)
E11	8530	2-5-2014	2000	Fri	576/00	USB	(HFD)
E11	8530	30-5-2014	2000	Fri	576/00	USB	(GHn)
E11	8565	29-5-2014	0315	Thu	253/00	USB	(HFD)
E11	8725	29-5-2014	0820	Thu	438/00	USB	(HFD)
E11	9130	18-5-2014	2005	Sun	369/00	USB	(HFD)
E11	10213	29-5-2014	0930	Thu	270/00	USB	(HFD)
E11	10800	5-5-2014	0450	Mon	416/00	USB	(HFD)
E11	12924	2-5-2014	0830	Fri	649/00	USB	(HFD)
E11	13424	1-5-2014	0645	Thu	517/00	USB	(HFD)
E11	13424	2-5-2014	0545	Fri	348/00	USB	(HFD)
E11	14753	2-5-2014	0710	Fri	633/00	USB	(HFD)
E11	15632	1-5-2014	0745	Thu	335/00	USB	(HFD)
E11	16335	1-5-2014	1155	Thu	718/00	USB	(HFD)
E11	16335	4-5-2014	1540	Sun	228/00	USB	(HFD)
E11	16335	25-5-2014	1540	Sun	228/00	USB	(GHn)
E11a	4909	1-5-2014	0900	Thu	249/36=18276	USB	(HFD)
E11a	8530	9-5-2014	2000	Fri	576/32 Attention 02841 59553 88146 ... 28684 87421 34937 Attention, rpt msg, out	USB	(AB)
E11a	8725	22-5-2014	0825	Thu	i.p.	USB	(HFD)
E11a	9610	14-5-2014	1045	Wed	469/30	USB	(HFD)
E11a	10487	2-5-2014	1710	Fri	953/30=57937	USB	(HFD)
E11a	10487	9-5-2014	1710	Fri	953/21 Attention 13203 30524 06760 ... 70189 77203 01627 Attention, rpt msg, out	USB	(AB)
E11a	13427	5-5-2014	0900	Mon	530/30=33634	USB	(HFD)
E11a	13722	4-5-2014	1400	Sun	981/10=33439	USB	(HFD)
E11a	13722	13-5-2014	1400	Tue	981/10 Attention 68396 98481 64349 99771 24692 42894 75193 84011 80165 32122 Attention, rpt msg, out	USB	(AB)
E11a	13873	6-5-2014	1045	Tue	576/32=02481	USB	(HFD)
E11a	13908	27-5-2014	1300	Tue	136/34=11565	USB	(HFD)
E11a	14518	3-5-2014	1810	Sat	982/10	USB	(HFD)
E11a	14769	13-5-2014	0530	Tue	980/10 QSB	USB	(HFD)
E11a	16388	2-5-2014	1110	Fri	952/40	USB	(HFD)
E17z	12850	1-5-2014	0810	Thu	674	USB	(HFD)
E17z	16780	1-5-2014	0800	Thu	674-801/5=46062	USB	(HFD)
EGY	16161.7	6-5-2014	1510	Tue	Egyptian diplo. Just got the end.	SITOR-A 100/170	(AB)
EGY	16222	21-5-2014	1632	Wed	MFA Cairo clg QQTX Egyptian Embassy Prague	SITOR-A	(AAI)
EGY	16237	21-5-2014	1326	Wed	MFA Cairo clg QQTP Egyptian Embassy Moscow	SITOR-A	(AAI)
EGY	17415	6-5-2014	2002	Tue	99910: MFA Cairo ATU-A traffic with IPTX Havana followed by Codan chirp call to 55501 from 99910	SITOR-A 100/170	(PPA)
EGY	19123.7	14-5-2014	1124	Wed	Egyptian diplo clg SSTE	SITOR-A 100/170	(AAI)
EGY	19251.7	13-5-2014	1422	Tue	MFA Cairo selcals RCVB Washington embassy	SITOR-A 100/170	(MPJ)
G06	5783	12-5-2014	1800	Mon	367 0	AM	(HFD)
G06	5943	23-5-2014	1930	Fri	218 QRM	AM	(HFD)
G06	6887	8-5-2014	1830	Thu	842-135/20=06132	AM	(HFD)
G06	6948	5-5-2014	0800	Mon	215 0	AM	(HFD)
G06	8139	16-5-2014	2000	Fri	167 0	AM	(HFD)
G06	10191	16-5-2014	1900	Fri	167 0	AM	(HFD)
HM01	11635	13-5-2014	1759	Tue	6314 99033 45564 83337 12054 44647	AM/RDFT	(DSch)

code	freq	date	UTC	day	remarks	mode	contributor
HM01	5855	5-5-2014	1048	Mon	64313 99032 45563 83336 12053 44646 //9155 kHz	AM/RDFT	(DSch)
HM01	5855	14-5-2014	0500	Wed	64314 99033 45564 83337 12054 44647	AM/RDFT	(AB)
HM01	5855	16-5-2014	0510	Fri	64318 99037 45567 83337 12054 44647	AM/RDFT	(SFNY)
HM01	5855	16-5-2014	1035	Fri	64318 99037 45567 83337 12054 44647 not //9155 kHz	AM/RDFT	(DSch)
HM01	5855	21-5-2014	0510	Wed	i.p. 64318 99037 45567 83337 12054 44647	AM/RDFT	(KC2TTK/SFNY)
HM01	5855	23-5-2014	0500	Fri	12661 48490 62101 75721 12055 66201	AM/RDFT	(AB/SFNY)
HM01	5855	25-5-2014	0500	Sun	12662 76272 62102 75722 69182 66202	AM/RDFT	(SFNY)
HM01	5855	26-5-2014	0500	Mon	62216 28745 48505 44825 82404 51254	AM/RDFT	(SFNY)
HM01	5855	28-5-2014	0500	Wed	12661 76270 62101 75721 69180 66201	AM/RDFT	(SFNY)
HM01	5855	30-5-2014	1022	Fri	17561 92781 11811 75728 69186 66209	AM/RDFT	(steve)
HM01	8135	9-5-2014	2305	Fri	Should be on 8009 kHz. Distorted voice	AM/RDFT	(DSch)
HM01	9065	9-5-2014	0800	Fri	64314 99033 45564 83337 12054 44647	AM/RDFT	(KC2TTK)
HM01	9065	12-5-2014	0800	Mon	64314 99033 45564 83337 12054 44647	AM/RDFT	(AB)
HM01	9065	14-5-2014	0800	Wed	64314 99033 45564 83337 12054 44647	AM/RDFT	(AB)
HM01	9065	16-5-2014	0816	Fri	i.p. 64318 99037 45567 83337 12054 44647	AM/RDFT	(AB)
HM01	9065	23-5-2014	0800	Fri	12661 48490 62101 75721 12055 66201	AM/RDFT	(AB)
HM01	9155	5-5-2014	1048	Mon	64313 99032 45563 83336 12053 44646 //5855 kHz	AM/RDFT	(DSch)
HM01	9155	16-5-2014	1035	Fri	64318 99037 45567 83337 12054 44647 not //5855 kHz	AM/RDFT	(DSch)
HM01	9155	30-5-2014	1022	Fri	17561 92781 11811 75728 69186 66209	AM/RDFT	(steve)
HM01	9240	9-5-2014	0900	Fri	64314 99033 45564 83337 12054 44647	AM/RDFT	(KC2TTK)
HM01	9240	12-5-2014	0900	Mon	Carrier up but no further signals. Stopped listening at 0916 UTC	AM/RDFT	(AB)
HM01	9240	14-5-2014	0900	Wed	Carrier up but no traffic noted.	AM	(AB)
HM01	9240	16-5-2014	0932	Fri	i.p. 64318 99037 45567 83337 12054 44647	AM/RDFT	(AB)
HM01	9240	23-5-2014	0900	Fri	12661 48490 62101 75721 12055 66201	AM/RDFT	(AB)
HM01	9330	9-5-2014	0703	Fri	64314 99033 45564 83337 12054 44647	AM/RDFT	(EW/KC2TTK)
HM01	9330	11-5-2014	0729	Sun	64314 99033 45564 83337 12054 44647	AM/RDFT	(AB)
HM01	9330	12-5-2014	0700	Mon	64314 99033 45564 83337 12054 44647	AM/RDFT	(AB)
HM01	9330	14-5-2014	0700	Wed	64314 99033 45564 83337 12054 44647	AM/RDFT	(AB)
HM01	9330	23-5-2014	0700	Fri	12661 48490 62101 75721 12055 66201	AM/RDFT	(AB)
HM01	10345	9-5-2014	0708	Fri	64314 99033 45564 83337 12054 44647	AM/RDFT	(EW)
HM01	10345	14-5-2014	0600	Wed	64314 99033 45564 83337 12054 44647	AM/RDFT	(AB)
HM01	10345	16-5-2014	0600	Fri	64318 99037 45567 83337 12054 44647	AM/RDFT	(AB)
HM01	10345	23-5-2014	0600	Fri	12661 48490 62101 75721 12055 66201	AM/RDFT	(AB/SFNY)
HM01	10345	25-5-2014	0600	Sun	12662 76272 62102 75722 69182 66202	AM/RDFT	(SFNY)
HM01	10345	26-5-2014	0600	Mon	62216 28745 48505 44825 82404 51254	AM/RDFT	(SFNY)
HM01	10715	4-5-2014	2200	Sun	64313 990321 45563 83336 12053 44646	AM/RDFT	(DSch/ Dan)
HM01	10715	5-5-2014	2207	Mon	64314 99033 45564 83337 12054 44647	AM/RDFT	(DSch)
HM01	10715	9-5-2014	2200	Fri	64314 99033 45564 83337 12054 44647	AM/RDFT	(DSch/Dan)
HM01	10715	11-5-2014	2200	Sun	64314 99033 45564 83337 12054 44647	AM/RDFT	(Lan/Dan)
HM01	10715	12-5-2014	2204	Mon	64314 99033 45564 83337 12054 44647	AM/RDFT	(DSch)
HM01	10715	15-5-2014	2203	Thu	Should be on 17480 kHz. 64318 99037 45567 88337 12054 44647	AM/RDFT	(DSch)
HM01	10715	16-5-2014	2200	Fri	64318 99037 45567 83337 12054 44647	AM/RDFT	(DSch/Dan)
HM01	10715	18-5-2014	2212	Sun	64318 99037 45567 83337 12054 44647	AM/RDFT	(DSch)
HM01	10715	19-5-2014	2217	Mon	64318 99037 45567 83337 12054 44647	AM/RDFT	(DSch)
HM01	10715	21-5-2014	2207	Wed	64318 99037 45567 83337 12054 44647	AM/RDFT	(DSch)
HM01	10715	25-5-2014	2207	Sun	62216 28745 48505 44825 82404 51254	AM/RDFT	(DSch)
HM01	10715	26-5-2014	2214	Mon	62216 28745 48505 44865 82404 51254	AM/RDFT	(DSch)
HM01	10715	28-5-2014	2200	Wed	12663 76273 62103 75723 69183 66203	AM/RDFT	(DSch/Dan)
HM01	10715	30-5-2014	2205	Fri	17561 92780 62108 75727 69185 66208	AM/RDFT	(DSch)
HM01	11435	2-5-2014	1557	Fri	88668 36546 66407 83332 00448 44642	AM/RDFT	(Dsch)
HM01	11435	3-5-2014	1604	Sat	64312 990031 45566 83335 12052 44645	AM/RDFT	(DSch)
HM01	11435	4-5-2014	1600	Sun	64313 990321 45563 83336 12053 44646	AM/RDFT	(DSch)
HM01	11435	5-5-2014	1559	Mon	64314 99033 45564 83337 12054 44647	AM/RDFT	(DSch)
HM01	11435	6-5-2014	1605	Tue	64314 99033 45564 83337 12054 44647	AM/RDFT	(DSch)
HM01	11435	7-5-2014	1559	Wed	64314 99033 45564 83337 12054 44647	AM/RDFT	(DSch)
HM01	11435	8-5-2014	1608	Thu	64314 99033 45564 83337 12054 44647	AM/RDFT	(DSch)
HM01	11435	9-5-2014	1608	Fri	Repeating Dos and then Uno over and over. Finally corrected 56801 22574 15441 50182 08444 51835	AM/RDFT	(DSch)
HM01	11435	11-5-2014	1607	Sun	64314 99033 45564 83337 12054 44647	AM/RDFT	(DSch)
HM01	11435	12-5-2014	1629	Mon	64314 99033 45564 83337 12054 44647	AM/RDFT	(DSch)

code	freq	date	UTC	day	remarks	mode	contributor
HM01	11435	14-5-2014	1604	Wed	64318 99037 45567 83337 12054 44647	AM/RDFT	(DSch)
HM01	11435	15-5-2014	1600	Thu	64318 99037 45567 88337 12054 44647	AM/RDFT	(DSch)
HM01	11435	16-5-2014	1603	Fri	64318 99037 45567 83337 12054 44647	AM/RDFT	(DSch)
HM01	11435	18-5-2014	1600	Sun	64318 99037 45567 83337 12054 44647	AM/RDFT	(DSch)
HM01	11435	19-5-2014	1605	Mon	64318 99037 45567 83337 12054 44647	AM/RDFT	(DSch)
HM01	11435	20-5-2014	1600	Tue	64318 99037 45567 83337 12054 44647	AM/RDFT	(DSch)
HM01	11435	21-5-2014	1611	Wed	64318 99037 45567 83337 12054 44647	AM/RDFT	(DSch)
HM01	11435	22-5-2014	1601	Thu	64318 99039 45567 83337 12054 44647	AM/RDFT	(DSch)
HM01	11435	23-5-2014	1631	Fri	12661 48490 62101 75721 12055 66201	AM/RDFT	(DSch)
HM01	11435	24-5-2014	1559	Sat	12661 76271 62101 75721 69181 66201	AM/RDFT	(DSch)
HM01	11435	25-5-2014	1637	Sun	12662 76272 62102 75722 69182 66202	AM/RDFT	(DSch)
HM01	11435	26-5-2014	1600	Mon	62216 28745 48505 44865 82404 51254	AM/RDFT	(DSch)
HM01	11435	27-5-2014	1639	Tue	62216 28745 48505 44825 82404 51254	AM/RDFT	(DSch)
HM01	11435	28-5-2014	1600	Wed	12663 76273 62103 75723 69183 66203	AM/RDFT	(DSch)
HM01	11435	29-5-2014	1600	Thu	12664 76274 62104 75724 69184 66204	AM/RDFT	(DSch)
HM01	11435	30-5-2014	1604	Fri	75041 84277 52337 88487 61226 02836	AM/RDFT	(DSch)
HM01	11435	31-5-2014	1604	Sat	17561 92781 11811 75728 69186 66209	AM/RDFT	(DSch)
HM01	11530	1-5-2014	1704	Thu	88668 36546 66404 83332 00448 44642	AM/RDFT	(DSch)
HM01	11530	3-5-2014	1700	Sat	64312 990031 45566 83335 12052 44645	AM/RDFT	(DSch)
HM01	11530	4-5-2014	1700	Sun	64313 990321 45563 83336 12053 44646	AM/RDFT	(DSch)
HM01	11530	5-5-2014	1702	Mon	64314 99033 45564 83337 12054 44647	AM/RDFT	(DSch)
HM01	11530	6-5-2014	1700	Tue	64314 99033 45564 83337 12054 44647	AM/RDFT	(DSch)
HM01	11530	8-5-2014	1711	Thu	64314 99033 45564 83337 12054 44647	AM/RDFT	(DSch)
HM01	11530	9-5-2014	1608	Fri	64311 99030 45561 83334 12051 44644	AM/RDFT	(DSch)
HM01	11530	11-5-2014	1716	Sun	64314 99033 45564 83337 12054 44647	AM/RDFT	(DSch)
HM01	11530	12-5-2014	1733	Mon	64314 99033 45564 83337 12054 44647	AM/RDFT	(DSch)
HM01	11530	14-5-2014	1720	Wed	64318 99037 45567 83337 12054 44647	AM/RDFT	(DSch)
HM01	11530	15-5-2014	1700	Thu	64318 99037 45567 88337 12054 44647	AM/RDFT	(DSch)
HM01	11530	16-5-2014	1749	Fri	64318 99037 45567 83337 12054 44647	AM/RDFT	(DSch)
HM01	11530	18-5-2014	1659	Sun	64318 99037 45567 83337 12054 44647	AM/RDFT	(DSch)
HM01	11530	19-5-2014	1731	Mon	64318 99037 45567 83337 12054 44647	AM/RDFT	(DSch)
HM01	11530	20-5-2014	1734	Tue	64318 99037 45567 83337 12054 44647	AM/RDFT	(DSch)
HM01	11530	21-5-2014	1706	Wed	64318 99037 45567 83337 12054 44647	AM/RDFT	(DSch)
HM01	11530	22-5-2014	1707	Thu	64318 99039 45567 83337 12054 44647	AM/RDFT	(DSch)
HM01	11530	23-5-2014	1659	Fri	12661 48490 62101 75721 12055 66201	AM/RDFT	(DSch)
HM01	11530	24-5-2014	1709	Sat	12661 76271 62101 75721 69181 66201	AM/RDFT	(DSch)
HM01	11530	25-5-2014	1659	Sun	12662 76272 62102 75722 69182 66202	AM/RDFT	(DSch)
HM01	11530	26-5-2014	1659	Mon	62216 28745 48505 44865 82404 51254	AM/RDFT	(DSch)
HM01	11530	27-5-2014	1700	Tue	62216 28745 48505 44825 82404 51254	AM/RDFT	(DSch)
HM01	11530	28-5-2014	1709	Wed	12663 76273 62103 75723 69183 66203	AM/RDFT	(DSch)
HM01	11530	29-5-2014	1738	Thu	12664 76274 62104 75724 69184 66204	AM/RDFT	(DSch)
HM01	11530	30-5-2014	1700	Fri	12667 76277 62107 75727 69187 66207	AM/RDFT	(DSch)
HM01	11530	31-5-2014	1701	Sat	17561 92781 11811 75728 69186 66209	AM/RDFT	(DSch)
HM01	11635	1-5-2014	1800	Thu	88668 36546 66404 83332 00448 44642	AM/RDFT	(DSch)
HM01	11635	2-5-2014	1849	Fri	64311 99030 45561 83334 12051 44644	AM/RDFT	(DSch)
HM01	11635	2-5-2014	2205	Fri	64311 99030 45561 83334 12051 44644	AM/RDFT	(DSch)
HM01	11635	3-5-2014	1800	Sat	64312 990031 45566 83335 12052 44645	AM/RDFT	(DSch)
HM01	11635	4-5-2014	1834	Sun	in progress	AM/RDFT	(steve)
HM01	11635	4-5-2014	1888	Sun	64313 990321 45563 83336 12053 44646	AM/RDFT	(DSch)
HM01	11635	4-5-2014	2100	Sun	64313 990321 45563 83336 12053 44646	AM/RDFT	(DSch/Dan)
HM01	11635	5-5-2014	1803	Mon	64314 99033 45564 83337 12054 44647	AM/RDFT	(DSch)
HM01	11635	5-5-2014	2207	Mon	64314 99033 45564 83337 12054 44647	AM/RDFT	(DSch)
HM01	11635	6-5-2014	1759	Tue	64314 99033 45564 83337 12054 44647	AM/RDFT	(DSch)
HM01	11635	7-5-2014	1813	Wed	64314 99033 45564 83337 12054 44647	AM/RDFT	(DSch)
HM01	11635	7-5-2014	2103	Wed	64314 99033 45564 83337 12054 44647	AM/RDFT	(DSch)
HM01	11635	8-5-2014	0958	Thu	Carrier up but no transmission heard	AM/RDFT	(AB)
HM01	11635	8-5-2014	1030	Thu	64314 99033 45564 83337 12054 44647. Not //12180 kHz	AM/RDFT	(DSch)
HM01	11635	8-5-2014	1829	Thu	64314 99033 45564 83337 12054 44647	AM/RDFT	(DSch)
HM01	11635	9-5-2014	1700	Fri	64314 99033 45564 83337 12054 44647	AM/RDFT	(DSch)
HM01	11635	9-5-2014	2101	Fri	64314 99033 45564 83337 12054 44647	AM/RDFT	(DSch)
HM01	11635	10-5-2014	1000	Sat	64316 99035 45566 60371 12056 35621	AM/RDFT	(AB)
HM01	11635	11-5-2014	1800	Sun	64314 99033 45564 83337 12054 44647	AM/RDFT	(DSch)

code	freq	date	UTC	day	remarks	mode	contributor
HM01	11635	11-5-2014	2106	Sun	64314 99033 45564 83337 12054 44647	AM/RDFT	(DSch)
HM01	11635	12-5-2014	2059	Mon	64314 99033 45564 83337 12054 44647	AM/RDFT	(DSch)
HM01	11635	13-5-2014	0800	Tue	64314 99033 45564 83337 12054 44647	AM/RDFT	(AB)
HM01	11635	14-5-2014	1803	Wed	64318 99037 45567 83337 12054 44647	AM/RDFT	(DSch)
HM01	11635	14-5-2014	2108	Wed	64318 99037 45567 83337 12054 44647	AM/RDFT	(DSch)
HM01	11635	16-5-2014	2100	Fri	64318 99037 45567 83337 12054 44647	AM/RDFT	(DSch)
HM01	11635	18-5-2014	1759	Sun	64318 99037 45567 83337 12054 44647	AM/RDFT	(DSch)
HM01	11635	18-5-2014	2103	Sun	64318 99037 45567 83337 12054 44647	AM/RDFT	(DSch)
HM01	11635	19-5-2014	1844	Mon	64318 99037 45567 83337 12054 44647	AM/RDFT	(DSch)
HM01	11635	19-5-2014	2059	Mon	64318 99037 45567 83337 12054 44647	AM/RDFT	(DSch)
HM01	11635	20-5-2014	0800	Tue	64318 99037 45567 83337 12054 44647	AM/RDFT	(AB)
HM01	11635	20-5-2014	1802	Tue	64318 99037 45567 83337 12054 44647	AM/RDFT	(DSch)
HM01	11635	21-5-2014	1805	Wed	64318 99037 45567 83337 12054 44647	AM/RDFT	(DSch)
HM01	11635	21-5-2014	2113	Wed	64318 99037 45567 83337 12054 44647	AM/RDFT	(DSch)
HM01	11635	22-5-2014	1835	Thu	64318 99039 45567 83337 12054 44647	AM/RDFT	(DSch)
HM01	11635	23-5-2014	1813	Fri	12661 48490 62101 75721 12055 66201	AM/RDFT	(DSch)
HM01	11635	23-5-2014	2104	Fri	12661 76271 62101 75721 69181 66201	AM/RDFT	(DSch)
HM01	11635	24-5-2014	1800	Sat	12661 76271 62101 75721 69181 66201	AM/RDFT	(DSch)
HM01	11635	25-5-2014	1759	Sun	12662 76272 62102 75722 69182 66202	AM/RDFT	(DSch)
HM01	11635	25-5-2014	2106	Sun	12661 76270 62101 75721 69180 66201	AM/RDFT	(DSch)
HM01	11635	26-5-2014	1800	Mon	62216 28745 48505 44865 82404 51254	AM/RDFT	(DSch)
HM01	11635	26-5-2014	2059	Mon	62216 28745 48505 44865 82404 51254	AM/RDFT	(DSch)
HM01	11635	27-5-2014	1759	Tue	62216 28745 48505 44825 82404 51254	AM/RDFT	(DSch)
HM01	11635	28-5-2014	2100	Wed	12663 76273 62103 75723 69183 66203	AM/RDFT	(DSch)
HM01	11635	29-5-2014	1800	Thu	12664 76274 62104 75724 69184 66204	AM/RDFT	(DSch)
HM01	11635	30-5-2014	1801	Fri	12667 76275 62107 75727 69185 66207	AM/RDFT	(DSch)
HM01	11635	30-5-2014	2101	Fri	17561 92780 62108 75727 69185 66208	AM/RDFT	(DSch)
HM01	11635	31-5-2014	1800	Sat	17561 92781 11811 75728 69186 66209	AM/RDFT	(DSch)
HM01	12120	8-5-2014	0943	Thu	64314 99033 45564 83337 12054 44647	AM/RDFT	(AB)
HM01	12120	15-5-2014	0854	Thu	i.p. 45567 83337 12054 44647. Nothing heard on 11635 kHz	AM/RDFT	(AB)
HM01	12120	15-5-2014	0900	Thu	64318 99037 45567 83337 12054 44647	AM/RDFT	(AB)
HM01	12180	8-5-2014	0954	Thu	stops at 0958 and starts after 10 secs again 64314 99033 45564 83337 12054 44647	AM/RDFT	(AB)
HM01	12180	8-5-2014	1030	Thu	64314 99033 45564 83337 12054 44647. Not //11635 kHz	AM/RDFT	(DSch)
HM01	12180	10-5-2014	1000	Sat	64316 99035 45566 60371 12056 35621	AM/RDFT	(AB)
HM01	13435	3-5-2014	0710	Sat	64311 99030 45561 83334 12051 44644	AM/RDFT	(KC2TTK)
HM01	13435	10-5-2014	0700	Sat	64316 99035 45566 60371 12056 35621. Stops at 0719 and starts again at 0729 UTC	AM/RDFT	(AB)
HM01	13435	15-5-2014	0700	Thu	64318 99037 45567 83337 12054 44647	AM/RDFT	(AB)
HM01	13435	16-5-2014	0700	Fri	64318 99037 45567 83337 12054 44647	AM/RDFT	(AB)
HM01	13435	27-5-2014	0700	Tue	62216 28745 48505 44825 82404 51254	AM/RDFT	(KC2TTK)
HM01	13435	27-5-2014	0759	Tue	12661 76270 62101 75721 69180 66201 12661 76270 62101 75721 69180 then off-air.	AM/RDFT	(KC2TTK)
HM01	14375	10-5-2014	0613	Sat	64316 99035 45566 60371 12056 35621	AM/RDFT	(AB)
HM01	14375	13-5-2014	0528	Tue	64314 99033 45564 83337 12054 44647. Horrible sound, several breaks	AM/RDFT	(AB)
HM01	14375	13-5-2014	0559	Tue	64314 99033 45564 83337 12054 44647. Horrible sound, several breaks	AM/RDFT	(AB)
HM01	14375	15-5-2014	0543	Thu	i.p 64318 99037 45567 83337 12054 44647	AM/RDFT	(AB)
HM01	14375	15-5-2014	0600	Thu	64318 99037 45567 83337 12054 44647	AM/RDFT	(AB)
HM01	14375	20-5-2014	0500	Tue	Late start at 0504 UTC. 64318 99037 45567 83337 12054 44647	AM/RDFT	(SFNY)
HM01	14375	20-5-2014	0540	Tue	64318 99037 45567 83337 12054 44647	AM/RDFT	(AB)
HM01	14375	20-5-2014	0600	Tue	64318 99037 45567 83337 12054 44647	AM/RDFT	(AB)
HM01	14375	24-5-2014	0500	Sat	12661 76271 62101 75721 69181 66201	AM/RDFT	(SFNY)
HM01	14375	27-5-2014	0500	Tue	62216 28745 48505 44825 82404 51254	AM/RDFT	(SFNY)
HM01	14375	27-5-2014	0600	Tue	62216 28745 48505 44825 82404 51254	AM/RDFT	(SFNY/KC2TTK)
HM01	14375	29-5-2014	0500	Thu	12663 76273 62103 75723 69183 66203	AM/RDFT	(KC2TTK)
HM01	14735	3-5-2014	0512	Sat	64311 99030 45561 83334 12051 44644	AM/RDFT	(KC2TTK)
HM01	16180	1-5-2014	2101	Thu	88668 36546 66404 83332 00448 44642	AM/RDFT	(DSch)
HM01	16180	3-5-2014	2100	Sat	64312 990031 45566 83335 12052 44645	AM/RDFT	(DSch)
HM01	16180	6-5-2014	2100	Tue	Radio Havana program at 2100z. Stopped and commences with 64314 etc	AM/RDFT	(DSch)
HM01	16180	8-5-2014	2101	Thu	64314 99033 45564 83337 12054 44647	AM/RDFT	(DSch)
HM01	16180	15-5-2014	2059	Thu	64318 99037 45567 88337 12054 44647	AM/RDFT	(DSch)

code	freq	date	UTC	day	remarks	mode	contributor
HM01	16180	15-5-2014	2159	Thu	Should be on 17480 kHz. 64318 99037 45567 88337 12054 44647. Stopped at 2200	AM/RDFT	(DSch)
HM01	16180	20-5-2014	2105	Tue	64318 99037 45567 83337 12054 44647	AM/RDFT	(DSch)
HM01	16180	22-5-2014	2100	Thu	12661 48490 62101 75721 12055 66201	AM/RDFT	(DSch)
HM01	16180	27-5-2014	2130	Tue	12663 76273 62103 75723 69183 66203	AM/RDFT	(DSch)
HM01	16180	29-5-2014	2059	Thu	12664 76274 62104 75724 69184 66204	AM/RDFT	(DSch)
HM01	16180	31-5-2014	2100	Sat	17561 92781 11811 75728 69186 66209	AM/RDFT	(DSch)
HM01	17480	1-5-2014	2200	Thu	88668 36546 66404 83332 00448 44642	AM/RDFT	(DSch)
HM01	17480	1-5-2014	2242	Thu	i.p.	AM/RDFT	(N2UHC)
HM01	17480	3-5-2014	2200	Sat	64312 990031 45566 83335 12052 44645	AM/RDFT	(DSch)
HM01	17480	15-5-2014	2213	Thu	Now finally on the right freq. 64318 99037 45567 88337 12054 44647	AM/RDFT	(DSch)
HM01	17480	20-5-2014	2202	Tue	64318 99037 45567 83337 12054 44647	AM/RDFT	(DSch)
HM01	17480	22-5-2014	2214	Thu	12661 48490 62101 75721 12055 66201	AM/RDFT	(DSch)
HM01	17480	24-5-2014	2216	Sat	12662 76272 62102 75722 69182 66202 at 242216	AM/RDFT	(DSch)
HM01	17480	27-5-2014	2209	Tue	12663 76273 62103 75723 69183 66203	AM/RDFT	(DSch)
HM01	17480	31-5-2014	2159	Sat	17561 92781 11811 75728 69186 66209	AM/RDFT	(DSch)
M01	4904	8-5-2014	2003	Thu	025 (R) 132 132 = ... 39054 _8733_ QRM	CW	(MPJ)
M01	4905	1-5-2014	2000	Thu	025-143/30=85387	CW	(HFD)
M01	4906	1-5-2014	2002	Thu	025 (R) 143 30 = = 85387 45640 53249 ... 73934 91933 01195 = = 143 143 30 30 000	CW	(JPL/MPJ)
M01	5076	23-5-2014	1920	Fri	i.p. 89635 89635 62726 62726 ... 41599 41599 83788 83788 = = 631 631 45 45 000.	CW	(MPJ)
M01	5280	1-5-2014	1800	Thu	025-037/30=69980	CW	(HFD)
M01	5476	12-5-2014	1919	Mon	858 514 514 32 32 = = 91714 46661 65662 91994 84978 ... 11794 83931 65904 22751 49604 = = 514 514 32 32 000	CW	(MPJ)
M01	5805	29-5-2014	1944	Thu	936 631 631 45 45 = = 19836 66417 24942 41725 39808 ... (ends) = = 631 631 45 45 000	CW	(MPJ)
M01	6435	10-5-2014	1500	Sat	025	CW	(HFD)
M01	6780	11-5-2014	0700	Sun	025-890/30=2125# 2 tones on 6780/81	CW	(HFD)
M01	10300	12-5-2014	1931	Mon	858 + 5FG message	CW	(Brit)
M01b	4895	16-5-2014	2010	Fri	ip =19836 must have started at 2005 4895 strong //5340	CW	(HFD)
M01b	5065	1-5-2014	1942	Thu	936-514/32=91714 5065 weak //5805	CW	(HFD)
M01b	5095	1-5-2014	1832	Thu	815-514/32=91714 QRM on both freqs //5760	CW	(HFD)
M01b	5125	5-5-2014	1810	Mon	364-514/32=91714 //5735	CW	(HFD)
M01b	5340	16-5-2014	2010	Fri	ip =19836 must have started at 2005 4895 strong //4895	CW	(HFD)
M01b	5465	2-5-2014	1902	Fri	336-514/32=91714 QRM	CW	(HFD)
M01b	5475	5-5-2014	1915	Mon	858-514/32=91714	CW	(HFD)
M01b	5735	5-5-2014	1810	Mon	364-514/32=91714 //5125	CW	(HFD)
M01b	5760	1-5-2014	1832	Thu	815-514/32=91714 QRM on both freqs //5095	CW	(HFD)
M01b	5805	1-5-2014	1942	Thu	936-514/32=91714 5065 weak //5065	CW	(HFD)
M03	6524	3-5-2014	1535	Sat	798/00	CW	(HFD)
M03	7727	5-5-2014	1320	Mon	543/00	CW	(HFD)
M03	7837	1-5-2014	1115	Thu	650/00	CW	(HFD)
M03	7837	4-5-2014	1320	Sun	435/36=95326	CW	(HFD)
M03	7837	22-5-2014	1320	Thu	437/00	CW	(SP1)
M03	7837	29-5-2014	1322	Thu	437/00 = = 0 0 0	CW	(MPJ)
M08a	7554	1-5-2014	2016	Thu	Cuban cut nbrs DNWUA WNUWT NTWDA	CW	(DSch)
M08a	7554	4-5-2014	2006	Sun	Cuban cut nbrs NNWTA DWTNN AGNRN	CW	(DSch)
M08a	7554	5-5-2014	2003	Mon	Cuban cut nbrs	CW	(Dsch)
M08a	7554	6-5-2014	2101	Tue	Cuban cut nbrs DDTWA RTIAN WRDGN	CW	(DSch)
M08a	7554	15-5-2014	2004	Thu	Cuban cut nbrs	CW	(DSch)
M08a	7554	19-5-2014	2004	Mon	Cuban cut nbrs	CW	(DSch)
M08a	7554	20-5-2014	2006	Tue	Cuban cut nbrs	CW	(DSch)
M08a	7554	21-5-2014	2011	Wed	Cuban cut nbrs	CW	(DSch)
M08a	7554	22-5-2014	2002	Thu	Cuban cut nbrs. NDWDN DRGRA ATAAA	CW	(DSch)
M08a	7554	29-5-2014	2005	Thu	Cuban cut nbrs	CW	(DSch)
M08a	8009	7-5-2014	2314	Wed	Cuban cut nbrs	CW	(DSch)
M08a	8009	12-5-2014	2314	Mon	Cuban cut nbrs	CW	(DSch)
M08a	8009	21-5-2014	2306	Wed	Cuban cut nbrs	CW	(DSch)
M08a	8009	26-5-2014	2300	Mon	Cuban cut nbrs: IITAN TGRUN ANARA	CW	(DSch)
M08a	8096	27-4-2014	1400		Cuban cut nbrs. AIUNA NAGUN DDNIA	CW	(DSch)
M08a	8096	2-5-2014	1405	Fri	Cuban cut nbrs	CW	(DSch)
M08a	8096	3-5-2014	1406	Sat	Cuban cut nbrs	CW	(DSch)

code	freq	date	UTC	day	remarks	mode	contributor
M08a	8096	6-5-2014	1414	Tue	Cuban cut nbrs	CW	(DSch)
M08a	8096	7-5-2014	1416	Wed	Cuban cut nbrs	CW	(DSch)
M08a	8096	9-5-2014	1403	Fri	Cuban cut nbrs in	CW	(DSch)
M08a	8096	15-5-2014	1441	Thu	Cuban cut nbrs	CW	(DSch)
M08a	8096	16-5-2014	1403	Fri	Cuban cut nbrs	CW	(DSch)
M08a	8096	18-5-2014	1405	Sun	Cuban cut nbrs AGNRN NNWTA DWTNN	CW	(DSch)
M08a	8096	19-5-2014	1401	Mon	Cuban cut nbrs TUUIN AIITN NTNDA	CW	(DSch)
M08a	8096	21-5-2014	1400	Wed	Cuban cut nbrs	CW	(DSch)
M08a	8096	23-5-2014	1419	Fri	Cuban cut nbrs	CW	(DSch)
M08a	8096	24-5-2014	1406	Sat	Cuban cut nbrs	CW	(DSch)
M08a	8096	26-5-2014	1400	Mon	ANDU. stopped 1359z. Then: TGAGA ANUAN NWIUA	CW	(DSch)
M08a	8135	1-5-2014	2304	Thu	Cuban cut nbrs WWDWW ANNND AGNAI. Mixing with V02a. Voice off CW continues	CW	(DSch)
M08a	8135	6-5-2014	2309	Tue	Cuban cut nbrs	CW	(DSch)
M08a	8135	8-5-2014	2326	Thu	Cuban cut nbrs	CW	(DSch)
M08a	8135	15-5-2014	2302	Thu	Cuban cut nbrs WWDUN RGIRA INATN	CW	(DSch)
M08a	8135	20-5-2014	2300	Tue	Cuban cut nbrs DURGA WITNA NNDRN 202300	CW	(DSch)
M08a	8135	27-5-2014	2300	Tue	Cuban cut nbrs. WURRA IWDTA GTDN. 272300	CW	(DSch)
M08a	11635	16-5-2014	1759	Fri	They are really messed up. 64318 etc, at the same time M08a: DDWWN URTGN WTDAA	CW	(DSch)
M12	5788	14-5-2014	1740	Wed	463 1	CW	(HFD)
M12	6802	14-5-2014	1720	Wed	463 1	CW	(HFD)
M12	6841	21-5-2014	2140	Wed	258 1	CW	(HFD)
M12	6857	5-5-2014	0430	Mon	850 0	CW	(HFD)
M12	6904	12-5-2014	1740	Mon	257 1	CW	(HFD)
M12	6904	12-5-2014	1840	Mon	257 1	CW	(HFD)
M12	6904	12-5-2014	1940	Mon	257 1	CW	(HFD)
M12	6904	19-5-2014	1740	Mon	257 1 2635 102 50224 46123 23876 ... 48968 64604 92071 000 0000	CW	(Danix)
M12	7541	21-5-2014	2120	Wed	258 1	CW	(HFD)
M12	7557	5-5-2014	0450	Mon	850 0	CW	(HFD)
M12	7931	12-5-2014	1720	Mon	257 1	CW	(HFD)
M12	7931	12-5-2014	1820	Mon	257 1	CW	(HFD)
M12	7931	12-5-2014	1920	Mon	257 1	CW	(HFD)
M12	7931	19-5-2014	1720	Mon	257 1 2635 102 50224 46123 23876 ... 48968 64604 92071 000 0000	CW	(Danix)
M12	7984	8-5-2014	0630	Thu	911 0	CW	(HFD)
M12	8047	14-5-2014	1700	Wed	463 1	CW	(HFD)
M12	8116	13-5-2014	1910	Tue	124 1	CW	(HFD)
M12	8116	20-5-2014	1910	Tue	124 1 1502 55 03227 15145 90484 ... 38644 91291 64038 000 000	CW	(SP1)
M12	9176	12-5-2014	1700	Mon	257 1	CW	(HFD)
M12	9176	12-5-2014	1800	Mon	257 1	CW	(HFD)
M12	9176	12-5-2014	1900	Mon	257 1	CW	(HFD)
M12	9184	8-5-2014	0650	Thu	911 0	CW	(HFD)
M12	9241	21-5-2014	2100	Wed	258 1	CW	(HFD)
M12	9264	13-5-2014	1850	Tue	124 1	CW	(HFD)
M12	9264	20-5-2014	1850	Tue	124 1 1502 55 03227 15145 90484 ... 38644 91291 64038 000 000	CW	(SP1)
M12	9327	12-5-2014	1640	Mon	938 1	CW	(HFD)
M12	9327	28-5-2014	1910	Wed	938 1	CW	(HFD)
M12	10343	13-5-2014	1830	Tue	124 1	CW	(HFD)
M12	10343	20-5-2014	1830	Tue	124 1 1502 55 03227 15145 90484 ... 38644 91291 64038 000 000	CW	(SP1)
M12	10343	22-5-2014	1800	Thu	124 1 6990 113 6990 113 35393 85782 07777 ... 85380 33103 etc	CW	(Topol)
M12	10598	12-5-2014	1620	Mon	938 1	CW	(HFD)
M12	10598	19-5-2014	1620	Mon	938 1 2361 106 72366 66107 25833 ... 76301 01463 56856 000 000	CW	(Danix)
M12	10598	28-5-2014	1850	Wed	938 1	CW	(HFD)
M12	10926	8-5-2014	1310	Thu	919 1	CW	(HFD)
M12	10926	8-5-2014	1350	Thu	919 1	CW	(HFD)
M12	11435	12-5-2014	1600	Mon	938 1	CW	(HFD)
M12	11435	19-5-2014	1600	Mon	938 1 2361 106 72366 66107 25833 ... 76301 01463 56856 000 000	CW	(Danix)
M12	11435	28-5-2014	1830	Wed	938 1	CW	(HFD)
M12	11491	22-5-2014	1640	Thu	725 1	CW	(HFD)
M12	12126	3-5-2014	1330	Sat	919 0	CW	(HFD)
M12	12126	8-5-2014	1330	Thu	919 1	CW	(HFD)
M12	12126	22-5-2014	1330	Thu	555 555 555 000	CW	(SP1)

code	freq	date	UTC	day	remarks	mode	contributor
M12	12178	31-5-2014	2150	Sat	851 851 1 ...	CW	(DN)
M12	12189	22-5-2014	1620	Thu	725 1	CW	(HFD)
M12	13386	22-5-2014	1600	Thu	725 1	CW	(HFD)
M12	13568	31-5-2014	2130	Sat	851 851 1 ...	CW	(DN)
M12	13569	3-5-2014	2130	Sat	851 0	CW	(HFD)
M12	13926	3-5-2014	1310	Sat	919 0	CW	(HFD)
M12	14869	3-5-2014	2110	Sat	851 0	CW	(HFD)
M12a	8116	22-5-2014	1740	Thu	124 2 4582 132 4582 132 67540 37492 53424 ... 87557 19241 81259 124 2 8248 112 8248 112 94213 70216 92924 ... 53810 03679 52901 000 000	CW	(Topol)
M12a	9264	22-5-2014	1720	Thu	124 2 4582 132 4582 132 67540 37492 53424 ... 87557 19241 81259 124 2 8248 112 8248 112 94213 70216 92924 ... 53810 03679 52901 000 000	CW	(Topol)
M12a	10343	22-5-2014	1700	Thu	124 2 4582 132 4582 132 67540 37492 53424 ... 87557 19241 81259 124 2 8248 112 8248 112 94213 70216 92924 ... 53810 03679 52901 000 000	CW	(Topol)
M14	6856	13-5-2014	1820	Tue	163-259/020=12346	CW	(HFD)
M14	7485	2-5-2014	1700	Fri	382 382 382 00000	MCW	(Avare)
M14	9085	13-5-2014	0700	Tue	576 0	CW	(HFD)
M14	9395	13-5-2014	0800	Tue	576 0	CW	(HFD)
M21	4391	2-5-2014	1856	Fri	Russian Air Defence =992256??0???? ...	CW	(MPJ)
M21	4416	1-5-2014	2000	Thu	PVO =990000??0??????	CW	(JPL-Sib)
M21	4904	1-5-2014	1948	Thu	PVO Tracking net with time stamps each minute	CW	(brit)
M21	4904	2-5-2014	2238	Fri	Russian Air Defence =002238??0????? and plot strings ...718541714 ...	CW	(MPJ)
M21	4904	6-5-2014	2204	Tue	Russian Air Defence	CW áá	(LG2)
M21	4904	8-5-2014	2005	Thu	Russian Air Defence =990005??8?????	CW	(MPJ)
M21	4904	12-5-2014	2000	Mon	Russian Air Defence =990000??8?????	CW	(DSch)
M21	4931	1-5-2014	1635	Thu	PVO =992035??0?????	CW	(JPL-Sib)
M21	5221	12-5-2014	2149	Mon	Russian Air Defence áá	CW áá	(LG2)
M21	5221.5	9-5-2014	1747	Fri	Russian Air Defence =992147??0?????	CW	(MPJ)
M21	5221.5	10-5-2014	2105	Sat	Russian Air Defence á	CW	(LG2)
M21	5221.5	12-5-2014	1856	Mon	Russian Air Defence =992257??0?????	CW	(DSch)
M21	5221.5	15-5-2014	1747	Thu	Russian Air Defence =992148??0????? etc.	CW	(MPJ)
M21	5221.5	23-5-2014	2311	Fri	Russian Air Defence =992312??0?????	CW	(MPJ)
M21	5521.5	17-5-2014	2312	Sat	Russian Air Defense =99T316??T??? =99T324??T???	CW	(AAI)
M21	6912	6-5-2014	2334	Tue	=990334??8??????	CW	(JPL-FNL)
M21	7249	22-5-2014	0457	Thu	Russian Air Defence =990859???? =990900???? =45900159014??? =4590901???	CW	(F5JBR)
M22	2680	7-5-2014	0255	Wed	VVV DE 4XZ //4331 kHz	CW	(F5JBR)
M22	2680	12-5-2014	0245	Mon	VVV DE 4XZ //4331 kHz	CW	(F5JBR)
M22	4331	3-5-2014	2012	Sat	AR AR DE 4XZ 4XZ = =	CW á	(LG2)
M22	4331	6-5-2014	0240	Tue	VVV DE 4XZ //6607 kHz	CW	(F5JBR)
M22	4331	7-5-2014	0255	Wed	VVV DE 4XZ //2680 kHz	CW	(F5JBR)
M22	4331	12-5-2014	0245	Mon	VVV DE 4XZ //2680 kHz	CW	(F5JBR)
M22	6607	4-5-2014	0012	Sun	VVV VVV DE 4XZ 4XZ = = á	CW á	(LG2)
M22	6607	6-5-2014	0240	Tue	VVV DE 4XZ //4331 kHz	CW	(F5JBR)
M32	5437	6-5-2014	1459	Tue	IBJL R K. O8KF DE IBJL QRJ . QYT 6 K	CW	(JPL-FNL)
M32	6844	4-5-2014	2018	Sun	5TQE de OBKC	CW	(VL)
M32	6951	4-5-2014	0211	Sun	YD9S clg. MVD5 de YD9S. QSA NO NO QSY 5159T 5159T	CW	(faux)
M32	8134	13-5-2014	0700	Tue	00000 00000 TEHNIESKA PROWERKA 52KB XXX LR43 XXX LR43 00000 00000 TEH PROWERKA K RMW34 DE W32R XXX? QSA3 K	CW	(Avare)
M32	12832	13-5-2014	1556	Tue	XXX XXX VOMJ VOMJ 92871 30200 MIDOKLIM 3727 3424	CW	(JU)
M32a	6290	11-5-2014	1844	Sun	RMP DE RHN85	CW	(AB)
M32a	6824	4-5-2014	1617	Sun	RMW44 ZRV K	CW	(JPL-Sib)
M32c	8029	7-5-2014	0405	Wed	W-marker	CW	(F5JBR)
M32c	8895	8-5-2014	0700	Thu	W Markers	CW	(Tom)
M32c	8895	8-5-2014	1240	Thu	Russian AF Bears Net. W-marker. Also on 1240 and 1300 UTC	CW	(MPJ)
M32c	8895	10-5-2014	0620	Sat	W-markers	CW	(Tom)
M32c	8895	10-5-2014	0640	Sat	W-markers	CW	(Tom)
M32c	8895	10-5-2014	1140	Sat	W-marker. Also at 1140, 1200 and 1220 UTC	CW	(MPJ)
M42	5787	1-5-2014	1920	Thu	Russian diplo 8 00	FSK 200/500	(HFD)
M42	5787	29-5-2014	1921	Thu	Russian Gov/Intel, null message 00000++++++++++162)5761	Baudot 187.5/500	(PPA)
M42	8118	1-5-2014	1910	Thu	Russian diplo 8 00	FSK 200/500	(HFD)
M42	8118	29-5-2014	1911	Thu	Russian Gov/Intel, null message 00000++++++++++162)5761	Baudot 187.5/500	(PPA)
M42	8121	6-5-2014	0632	Tue	Russian diplo, i.p. 51080 27238 .... RPT = 11100 60102 45654 06056 01009 = MHWPW DJTPL WSGGZ SDWVE BESXX	CW	(F5JBR)

code	freq	date	UTC	day	remarks	mode	contributor
M42	8121	6-5-2014	0702	Tue	Russian diplo: UHA QSY 13382.	CW	(F5JBR)
M42	8121	6-5-2014	0706	Tue	Russian diplo: UHA NIL SK	CW	(F5JBR)
M42	9035	22-5-2014	1757	Thu	Russian diplo	Serdolik MFSK/40/1500	(PPA)
M42	9124	15-5-2014	0650	Thu	Russian Gov/Intel. 5FG with =50= separator	Baudot 50/500	(WP3)
M42	9128	6-5-2014	2320	Tue	Russian diplo/intel. Messages on links 43548, 41020, 57769, 40988, 40964, 16681, 26862, 40990, 62604	FSK 200/1000	(Dan)
M42	9128	13-5-2014	2320	Tue	Russian diplo/intel. Messages on links 45084, 61501, 40972, 40988, 32796, 61462, 28700, 57404	FSK 200/1000	(Dan)
M42	9128	20-5-2014	2320	Tue	Russian diplo/intel. Messages on links 61501, 32796, 40988, 57661	FSK 200/1000	(Dan)
M42	9140	14-5-2014	0705	Wed	RUU: Russian Gov.	CW/RUS-ARQ 100/500 á	(LG2)
M42	9140	15-5-2014	0717	Thu	RRF30 DE RUU70 ZHC?	CW	(WP3)
M42	10346	7-5-2014	1906	Wed	Multifigure groups 16323801323443583 =8878 234286008613860131=7849	Baudot 187.5/500	(PPA)
M42	10767	1-5-2014	1900	Thu	Russian diplo 8 00	FSK 200/500	(HFD)
M42	10767	29-5-2014	1901	Thu	Russian Gov/Intel, null message 00000++++++++++162)5761	Baudot 187.5/500	(PPA)
M42	11078	27-5-2014	1857	Tue	Russian diplo	Serdolik MFSK/40/1500	(PPA)
M42	11095	6-5-2014	2310	Tue	Russian diplo/intel. Messages on links 40988, 40972, 53254, 58510, 61470, 40984, 15887	FSK 200/1000	(Dan)
M42	11095	13-5-2014	2310	Tue	Russian diplo/intel. Messages on links 40988, 00028, 61470, 40980, 40964, 40989, 41021, 61454, 40972, 57372, 40990	FSK 200/1000	(Dan)
M42	11095	20-5-2014	2310	Tue	Russian diplo/intel. Messages on links 40988, 57372, 41118, 61757, 61468	FSK 200/1000	(Dan)
M42	12062	10-5-2014	1239	Sat	K4MT/NT9P ne. "=x00=" separators with CW opchat "cfm qru? k", "zvp k", "bk qrv k", "k"	Baudot 50/500	(linkz)
M42	12193	17-5-2014	0810	Sat	Russian diplo/intel. Messages on links 45114, 45115, 61498	FSK 200/1000	(AB)
M42	12210	30-5-2014	0727	Fri	RWB5: Russian PtP station. Call up: RAZ2 DE RWB5 QSA?	Baudot 50/500	(PPA)
M42	12219.5	15-5-2014	0725	Thu	Russian diplo	CROWD-36	(WP3)
M42	13376	10-5-2014	1220	Sat	Russian diplo 6 55	FSK 200/500	(HFD)
M42	13377	6-5-2014	2300	Tue	Russian diplo/intel. Messages on links 07958, 13366, 57372, 30260, 40990, 61468, 44572, 40991, 45084, 40988, 40982	FSK 200/1000	(Dan)
M42	13377	13-5-2014	2300	Tue	Russian diplo/intel. Messages on links 13366, 31870, 41021, 40988, 61614, 41054, 00028, 40984, 57372, 08220, 62653, 61501, 40989	FSK 200/1000	(Dan)
M42	13377	20-5-2014	2300	Tue	Russian diplo/intel	FSK 200/1000	(Dan)
M42	13382	6-5-2014	0702	Tue	Russian diplo: RPK QSA4 QSL 2 NIL	CW	(F5JBR)
M42	13382	6-5-2014	0706	Tue	Russian diplo: RPK SK	CW	(F5JBR)
M42	14376	20-5-2014	0803	Tue	Russian Gov/Intel.	MFSK 36-tone	(Avare)
M42	14522	17-5-2014	0800	Sat	Russian diplo/intel. Messages on links 12346, 45115, 45114, 45700, 04152	FSK 200/1000	(AB)
M42	14655.5	28-5-2014	1256	Wed	Russian diplo	CROWD-36	(AAI)
M42	14880	5-5-2014	0230	Mon	Russian diplo/intel. Messages on link 33379	FSK 200/1000	(Dan)
M42	14880	6-5-2014	0230	Tue	Russian diplo/intel. Messages on link 53354	FSK 200/1000	(Dan)
M42	14880	7-5-2014	0230	Wed	Russian diplo/intel. Messages on links 04132, 08250	FSK 200/1000	(Dan)
M42	14880	8-5-2014	0230	Thu	Russian diplo/intel	FSK 200/1000	(Dan)
M42	15827	10-5-2014	1210	Sat	Russian diplo 6 55	FSK 200/500	(HFD)
M42	16121	30-5-2014	0749	Fri	Russian diplo	CROWD-36	(Noco)
M42	16166	26-5-2014	0832	Mon	Russian diplo	Serdolik MFSK/40/1500	(PPA)
M42	16174	24-5-2014	2116	Sat	Russian diplo/intel. Messages on links 32785, 32821, 32817	FSK 200/1000	(SP1)
M42	16240.5	8-5-2014	1227	Thu	Russian diplo	CROWD-36	(LG2)
M42	16320	5-5-2014	0150	Mon	Russian diplo/intel. Messages on link 41018	FSK 200/1000	(Dan)
M42	16320	6-5-2014	0150	Tue	Russian diplo/intel. Messages on links 13366, 41018, 28547, 26374	FSK 200/1000	(Dan)
M42	16320	7-5-2014	0150	Wed	Russian diplo/intel. Messages on links 07227, 41008, 41018, 57471, 58495, 08250	FSK 200/1000	(Dan)
M42	16320	8-5-2014	0150	Thu	Russian diplo/intel. Messages on link 14600	FSK 200/1000	(Dan)
M42	16352	22-5-2014	1450	Thu	Russian gov.	Baudot 50/500	(MCO)
M42	17431	10-5-2014	1200	Sat	Russian diplo 6 55	FSK 200/500	(HFD)
M42	18436	8-5-2014	1440	Thu	Russian Gov. K4MT/NT9P net, startup/wakeup sequence, decoding as "bzl26"	FSK 50/500	(linkz)
M42	19119	8-5-2014	1440	Thu	Russian Gov. K4MT/NT9P net, startup/wakeup sequence, decoding as "bzl26"	FSK 50/500	(linkz)
M42	19363	5-5-2014	0835	Mon	Russian Gov/Intel.	Baudot 75/500	(BCI)
M42	19363	5-5-2014	0838	Mon	Russian Gov/Intel. Ops chat: QRG OD GU AF TER QSO QTR	CW	(BCI)
M51	3164	19-5-2014	0220	Mon	NR 64 M 21 04:20:18 2014 = KDMBO KHTEK CKUIU JFDKW ELJRX PMGOF JVXKF TTVLP FYVTR KVMBG à	CW	(F5JBR)
M51	3164	20-5-2014	0259	Tue	NR 83 M 20 04:59:58 2014 = LCVTV GCLTB DDGRR ...	CW	(F5JBR)
M51	3664	6-5-2014	1805	Tue	NR 67 M 06 20:05:13 2014 = RXVJL GLZJO ZZZMX VQSXJ à..	CW	(F5JBR)

code	freq	date	UTC	day	remarks	mode	contributor
M51	3664	7-5-2014	0305	Wed	NR 66 M 0705:07:55 2014 = FRDSR HWHNF ZWDBB OAHZW LKNAA TVQNB TXIVX IROED à //6853 kHz	CW	(F5JBR)
M51	3664	12-5-2014	1818	Mon	NR 07 M 12 20:19:50 2014 = QYHAS RVVWK LNNEY MWAIL SOEOI SBHKO EWYQA XYLBF QNJLD à //6853 kHz	CW	(F5JBR)
M51	3881	6-5-2014	2107	Tue	= NR 06 M 14 00:49:28 2014 BT UKCTO HKSUI AUDHA	CW áá	(LG2)
M51	3881	9-5-2014	1038	Fri	NR 232 M 09 12:38:59 2014 = QKHPQ YMZPK ZOMNR OHRDC KQURO YYIVL PUHBO FXLTF à //6825 kHz	CW	(F5JBR)
M51	3881	21-5-2014	0255	Wed	in progress	CW	(N1BHH)
M51	4440.5	7-5-2014	2045	Wed	FAV22 i.p. YEJUR KMBBA ANEK YZLEV TDBWI EXRHN USCOE WSPJK	CW áá	(LG2)
M51	4440.5	8-5-2014	0242	Thu	NR 85 M 08 04:42:01 2014 = UXFOP ZDSAX DCZPD PCMLK YOPZU CUUKA VFBKX YYPZB LPRKC à	CW	(F5JBR)
M51	4440.5	8-5-2014	1849	Thu	NR 54 M 08 20:49:07 2014 = HVRID RTYXR YGOPM HUHKL CSPSK YDGWQ IOKQT UEXJT à	CW	(F5JBR)
M51	4440.5	16-5-2014	1852	Fri	NR 30 M 13 20:52:37 2014 = JFQWO KJYWY TTDBS XTPZP WOVPU à	CW	(F5JBR)
M51	5054	20-5-2014	1240	Tue	NR 48 M 20 14:40:03 2014 = OGUCY NPGTG CYPEà //9461 kHz	CW	(F5JBR)
M51	5054	25-5-2014	1240	Sun	NR 48 M 20 14:40:03 2014 = OGUCY NPGTG CYPEà //9461 kHz	CW	(F5JBR)
M51	5453	25-5-2014	0308	Sun	NR 69 M 28 05:08:14 2014 = KQHZD JNUUO FWXFD ACQRI QLGVA RGLVS ...	CW	(F5JBR)
M51	6825	6-5-2014	1125	Tue	NR 07 M 06 13:25:51 2014 = OSREY FCTUK JTLPK MWXSB CQJMU JCGGZ KXXIO LOWII YRAUJ MGXBE NOOWI U AUPJ ZMQUT OVOYG	CW	(F5JBR)
M51	6825	6-5-2014	2107	Tue	FAV22 Morse practice	CW áá	(LG2)
M51	6825	9-5-2014	1038	Fri	NR 232 M 09 12:38:59 2014 = QKHPQ YMZPK ZOMNR OHRDC KQURO YYIVL PUHBO FXLTF à //3881 kHz	CW	(F5JBR)
M51	6825	13-5-2014	1629	Tue	NR 14 M 13 16:30:02 2014 = QGKUU VXQRQ BPRWW TRDMH ETYDO TMZTR XGSWB JEWLV UPWPD ... //7529 kHz	CW	(F5JBR)
M51	6853	6-5-2014	1435	Tue	NR 33 M 06 16:35:41 2014 = WPRMA EZBGZ KRSKU TBAPX AYVYJ CXMVE AFHJI SYLJH	CW	(F5JBR)
M51	6853	6-5-2014	1702	Tue	BT NR 57 M 06 19:05:21 2014 BT LEIFO SAGPQ IMVEO VOFBU HSOKB ...	CW	(MPJ)
M51	6853	6-5-2014	1805	Tue	NR 67 M 06 20:05:13 2014 = RXVJL GLZJO ZZZMX VQSXJ à..	CW	(F5JBR)
M51	6853	7-5-2014	0305	Wed	NR 66 M 0705:07:55 2014 = FRDSR HWHNF ZWDBB OAHZW LKNAA TVQNB TXIVX IROED à //3664 kHz	CW	(F5JBR)
M51	6853	12-5-2014	1818	Mon	NR 07 M 12 20:19:50 2014 = QYHAS RVVWK LNNEY MWAIL SOEOI SBHKO EWYQA XYLBF QNJLD à //3664 kHz	CW	(F5JBR)
M51	7166	5-5-2014	1756	Mon	NR 20 M 05 19:56:48 2014 = OFIGS NUOCK YRZMG RYEWA DDIBE TXAEO CLKHJ .... //8618 kHz	CW	(F5JBR)
M51	7166	29-5-2014	0448	Thu	NR 49 M 07:48:05 2014 = //7529 kHz	CW	(F5JBR)
M51	7529	13-5-2014	1629	Tue	NR 14 M 13 16:30:02 2014 = QGKUU VXQRQ BPRWW TRDMH ETYDO TMZTR XGSWB JEWLV UPWPD ... //6825 kHz	CW	(F5JBR)
M51	7529	29-5-2014	0448	Thu	NR 49 M 07:48:05 2014 = //7166 kHz	CW	(F5JBR)
M51	8013	10-5-2014	1129	Sat	NR 18 M 10 13:29:37 2014 = GRM	CW	(F5JBR
M51	8016	6-5-2014	2107	Tue	FAV22 i.p.	CW áá	(LG2)
M51	8327	26-5-2014	0538	Mon	NR 58 M 22 07:38:56 2014 = KVUVT VFDVF HEDWS ZGTJU ZNNFV à //9461 kHz	CW	(F5JBR)
M51	8618	5-5-2014	1756	Mon	NR 20 M 05 19:56:48 2014 = OFIGS NUOCK YRZMG RYEWA DDIBE TXAEO CLKHJ .... //7166 kHz	CW	(F5JBR)
M51	9213	4-5-2014	1844	Sun	= NR 03 M 06 20:46:51 2014 = TUJTW EIKTC CMAIN UAJHD ...	CW	(MPJ)
M51	9434	1-5-2014	0544	Thu	NR 17 m 01 07:48:08 2014 = HBEJX BAFAO FOSWU GCKNF	CW	(F5JBR)
M51	9434	11-5-2014	1654	Sun	= NR 41 M 06 18:41:47 2014 = ...110 5lg's... = NR 42 M 06 18:48:24 2014 = ...110 5lg's... = NR 43 M 06 18:54:14 2014 = etc.	CW	(Brit)
M51	9461	20-5-2014	1240	Tue	NR 48 M 20 14:40:03 2014 = OGUCY NPGTG CYPEà //5054 kHz	CW	(F5JBR)
M51	9461	24-5-2014	1630	Sat	= NR 50 M 27 18:32:15 2014 bt BVAKB BWOKG SLYZZ QPOTD ...	CW	(MPJ)
M51	9461	26-5-2014	0538	Mon	NR 58 M 22 07:38:56 2014 = KVUVT VFDVF HEDWS ZGTJU ZNNFV à //8327 kHz	CW	(F5JBR)
M51	9961	25-5-2014	1240	Sun	NR 48 M 20 14:40:03 2014 = OGUCY NPGTG CYPEà //5054 kHz	CW	(F5JBR)
M51	17976	10-5-2014	2302	Sat	= NR 36 M JE V 00:58:59 2014 BT XVVEN SATIZ HTPXG EEIGGI OBBOJ áá	CW	(LG2)
M51	3092	17-5-2014	0230	Sat	NR 17 M 14 04:30 :42 2014= QUZAD OVJYZ ICZNZ à	CW	(F5JBR)
M89	3220	28-5-2014	2042	Wed	i.p. A756 N4U. T3T7 U.5. (Cont'd)	CW	(JPL)
M89	3261	27-5-2014	2000	Tue	3ETW (Cont'd) VVV FF /1980/EX 0418 =	CW	(JPL)
M89	3330	1-5-2014	1430	Thu	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	3330	1-5-2014	1647	Thu	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	3330	1-5-2014	1843	Thu	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	3330	3-5-2014	1348	Sat	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	3330	4-5-2014	1347	Sun	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	3330	5-5-2014	1225	Mon	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	3330	5-5-2014	1835	Mon	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	3330	6-5-2014	1207	Tue	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)

code	freq	date	UTC	day	remarks	mode	contributor
M89	3330	6-5-2014	1308	Tue	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	3330	6-5-2014	1724	Tue	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	3330	7-5-2014	1405	Wed	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	3330	7-5-2014	1753	Wed	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	3330	9-5-2014	1339	Fri	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	3330	9-5-2014	2039	Fri	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	3330	10-5-2014	1408	Sat	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	3330	12-5-2014	1647	Mon	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	3330	13-5-2014	1448	Tue	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	3330	13-5-2014	1952	Tue	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	3330	14-5-2014	1518	Wed	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	3330	14-5-2014	1732	Wed	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	3330	23-5-2014	2036	Fri	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	3330	24-5-2014	1338	Sat	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	3330	26-5-2014	1338	Mon	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	3330	27-5-2014	1940	Tue	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	3330	28-5-2014	1604	Wed	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	3342	27-5-2014	1718	Tue	i.p. AR R U GA GA	CW	(JPL)
M89	3358	27-5-2014	1724	Tue	i.p. TN36 D635 5... (Cont'd)	CW	(JPL)
M89	3574	23-5-2014	1459	Fri	(i.p. 67T3 A444 .67. (Cont'd) III III = = = UA.U NDU4 4T64 (Cont'd)	CW	(JPL)
M89	3596	27-5-2014	2022	Tue	i.p. QSY 18 QSY 18 QSY 18 VVV	CW	(JPL)
M89	3642	29-4-2014	2010		V DKG6 DKG6 DKG6 DE 3A7D 3A7D	CW	(PPA)
M89	3642	1-5-2014	1450	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
M89	3642	2-5-2014	1621	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
M89	3642	4-5-2014	1553	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
M89	3642	5-5-2014	1838	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
M89	3642	6-5-2014	1726	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
M89	3642	7-5-2014	1756	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
M89	3642	9-5-2014	2051	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
M89	3642	13-5-2014	1449	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
M89	3642	13-5-2014	1954	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
M89	3642	14-5-2014	1736	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
M89	3642	23-5-2014	1456	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
M89	3642	23-5-2014	2055	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
M89	3642	23-5-2014	2341	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
M89	3642	24-5-2014	1525	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
M89	3642	24-5-2014	2216	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
M89	3642	25-5-2014	1519	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
M89	3642	25-5-2014	2140	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
M89	3642	26-5-2014	1601	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
M89	3642	27-5-2014	1944	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
M89	3642	31-5-2014	2319	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
M89	3677	1-5-2014	1435	Thu	V TY9D (x3) DE EPX2 (x2) (Cont'd)	CW	(JPL)
M89	3677	1-5-2014	2036	Thu	V TY9D (x3) DE EPX2 (x2) (Cont'd) //4857	CW	(JPL)
M89	3677	2-5-2014	1634	Fri	V TY9D (x3) DE EPX2 (x2) (Cont'd) //4857	CW	(JPL)
M89	3677	3-5-2014	1354	Sat	V TY9D (x3) DE EPX2 (x2) (Cont'd) //4857	CW	(JPL)
M89	3677	4-5-2014	1339	Sun	V TY9D (x3) DE EPX2 (x2) (Cont'd) //4857	CW	(JPL)
M89	3691	27-5-2014	2024	Tue	i.p. ZSY 12/ VVV	CW	(JPL)
M89	3797	1-5-2014	1434	Thu	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
M89	3797	2-5-2014	1625	Fri	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
M89	3797	3-5-2014	1356	Sat	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
M89	3797	4-5-2014	1340	Sun	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
M89	3797	5-5-2014	1226	Mon	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
M89	3797	5-5-2014	1846	Mon	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
M89	3797	6-5-2014	1204	Tue	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
M89	3797	6-5-2014	1727	Tue	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
M89	3797	7-5-2014	1408	Wed	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
M89	3797	7-5-2014	1757	Wed	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
M89	3797	8-5-2014	1228	Thu	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
M89	3797	9-5-2014	1341	Fri	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
M89	3797	10-5-2014	1411	Sat	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
M89	3797	12-5-2014	1650	Mon	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)

code	freq	date	UTC	day	remarks	mode	contributor
M89	3797	13-5-2014	1452	Tue	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
M89	3797	13-5-2014	1956	Tue	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
M89	3797	14-5-2014	1531	Wed	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
M89	3797	14-5-2014	1737	Wed	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
M89	3797	23-5-2014	1452	Fri	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
M89	3797	23-5-2014	2038	Fri	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
M89	3797	24-5-2014	1333	Sat	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
M89	3797	26-5-2014	1156	Mon	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
M89	3797	26-5-2014	1339	Mon	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
M89	3797	26-5-2014	1603	Mon	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
M89	3797	27-5-2014	1740	Tue	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
M89	3797	27-5-2014	1946	Tue	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
M89	3797	28-5-2014	1142	Wed	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
M89	3797	28-5-2014	1613	Wed	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
M89	3820	1-5-2014	1436	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	3820	2-5-2014	1626	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	3820	3-5-2014	1358	Sat	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	3820	4-5-2014	1342	Sun	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	3820	5-5-2014	1228	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	3820	5-5-2014	1844	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	3820	6-5-2014	1311	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
M89	3820	7-5-2014	1409	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	3820	7-5-2014	1758	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	3820	8-5-2014	1229	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	3820	8-5-2014	2203	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	3820	9-5-2014	1343	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	3820	10-5-2014	1409	Sat	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
M89	3820	12-5-2014	1651	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	3820	13-5-2014	1457	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	3820	13-5-2014	1958	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	3820	14-5-2014	1502	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	3820	14-5-2014	1534	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
M89	3820	14-5-2014	1738	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	3820	23-5-2014	1255	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	3820	23-5-2014	1450	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	3820	23-5-2014	2042	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	3820	24-5-2014	1335	Sat	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	3820	25-5-2014	1543	Sun	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
M89	3820	26-5-2014	1158	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
M89	3820	26-5-2014	1340	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
M89	3820	27-5-2014	1742	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	3820	27-5-2014	1950	Tue	V GKLO (x3) DE TSTYUI (x2)problems with c/s //5657	CW	(JPL)
M89	3820	28-5-2014	1322	Wed	V GKLO (x3) DE TSTYUI (x2) (Cont'd)	CW	(JPL)
M89	3820	28-5-2014	1606	Wed	V GKLO (x3) DE TSTYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	3820	28-5-2014	2052	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	3823	27-5-2014	1736	Tue	i.p. 457T 5N44 D375 DNU3 3AU6 (Contd)	CW	(JPL)
M89	3862	25-5-2014	1554	Sun	i.p. 3AUD D.D5 74A5 5AAA (Cont'd)	CW	(JPL)
M89	4131	1-5-2014	1453	Thu	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
M89	4131	2-5-2014	1629	Fri	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
M89	4131	3-5-2014	1548	Sat	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
M89	4131	4-5-2014	1555	Sun	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
M89	4131	5-5-2014	1842	Mon	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
M89	4131	7-5-2014	1800	Wed	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
M89	4131	13-5-2014	1455	Tue	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
M89	4131	23-5-2014	2047	Fri	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
M89	4131	27-5-2014	1735	Tue	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
M89	4131	28-5-2014	1610	Wed	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
M89	4163	25-5-2014	1552	Sun	i.p 6754 45D. T... (Cont'd)	CW	(JPL)
M89	4196	26-5-2014	1717	Mon	i.p. 7N4A 7AU 435T (Cont'd) AR	CW	(JPL)
M89	4221	23-5-2014	1341	Fri	i.p. mostly unreadable	CW	(JPL)
M89	4225	5-5-2014	1836	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL)
M89	4225	6-5-2014	1208	Tue	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)

code	freq	date	UTC	day	remarks	mode	contributor
M89	4225	6-5-2014	1728	Tue	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
M89	4228	23-5-2014	1342	Fri	i.p. mostly unreadable	CW	(JPL)
M89	4259	1-5-2014	1632	Thu	In tfc: U45N AA47 DTTT. (Cont'd)	CW	(JPL)
M89	4259	28-5-2014	1643	Wed	AR DE QSG SK	CW	(JPL)
M89	4368	25-5-2014	1544	Sun	i.p. DN5D 4UA. .T6N 5A6D	CW	(JPL)
M89	4512	1-5-2014	1434	Thu	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
M89	4512	2-5-2014	1625	Fri	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
M89	4512	3-5-2014	1356	Sat	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
M89	4512	4-5-2014	1340	Sun	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
M89	4512	5-5-2014	1226	Mon	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
M89	4512	5-5-2014	1846	Mon	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
M89	4512	6-5-2014	1204	Tue	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
M89	4512	6-5-2014	1727	Tue	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
M89	4512	7-5-2014	1408	Wed	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
M89	4512	7-5-2014	1757	Wed	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
M89	4512	8-5-2014	1228	Thu	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
M89	4512	8-5-2014	2205	Thu	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
M89	4512	9-5-2014	1341	Fri	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
M89	4512	10-5-2014	1136	Sat	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
M89	4512	12-5-2014	1650	Mon	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
M89	4512	13-5-2014	1452	Tue	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
M89	4512	13-5-2014	1956	Tue	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
M89	4512	23-5-2014	1452	Fri	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
M89	4512	23-5-2014	2038	Fri	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
M89	4512	24-5-2014	1333	Sat	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
M89	4512	25-5-2014	1542	Sun	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
M89	4512	27-5-2014	1740	Tue	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
M89	4512	27-5-2014	1946	Tue	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
M89	4512	28-5-2014	1142	Wed	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
M89	4512	28-5-2014	1613	Wed	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
M89	4521	28-5-2014	1649	Wed	i.p. 457T .A.A 7DAN .5TN (Cont'd)	CW	(JPL)
M89	4521	28-5-2014	2359	Wed	i.p. U35D 4.NA ... (Cont'd)	CW	(JPL)
M89	4522	26-5-2014	1604	Mon	i.p. 5745 D5N7 3DTN TD5N (Cont'd)	CW	(JPL)
M89	4857	1-5-2014	2036	Thu	V TY9D (x3) DE EPX2 (x2) (Cont'd) //3677	CW	(JPL)
M89	4857	2-5-2014	1634	Fri	V TY9D (x3) DE EPX2 (x2) (Cont'd) //3677	CW	(JPL)
M89	4857	3-5-2014	1354	Sat	V TY9D (x3) DE EPX2 (x2) (Cont'd) //3677	CW	(JPL)
M89	4857	4-5-2014	1339	Sun	V TY9D (x3) DE EPX2 (x2) (Cont'd) //3677	CW	(JPL)
M89	4860	2-5-2014	2120	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
M89	4860	8-5-2014	2220	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
M89	4946	28-5-2014	2057	Wed	BJE3 DE AG3U	CW	(JPL)
M89	4980	30-5-2014	0158	Fri	i.p. NR 1301 51 0 00005 ... (Cont'd)	CW	(JPL)
M89	5062	28-5-2014	1345	Wed	i.p. 5NUA NAU4 D76T 6UDN AR	CW	(JPL)
M89	5123	28-5-2014	1350	Wed	i.p. 7N43 76DN 54UN (Cont'd)	CW	(JPL)
M89	5162	28-5-2014	1354	Wed	i.p. R QSA ? K R IEC BT NGWU AR K	CW	(JPL)
M89	5167	28-5-2014	1354	Wed	i.p. 36D7 .ADU TA.U 74TD ? 74T3 UD73 6D75 (Cont'd)	CW	(JPL)
M89	5177	25-5-2014	1534	Sun	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
M89	5177	26-5-2014	1621	Mon	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
M89	5183	4-5-2014	1556	Sun	i.p. VV XLF9 DE E9WH K (see N&O 200)	CW	(JPL)
M89	5236	27-5-2014	2034	Tue	i.p. 313532 WK 31.. 42 WK NR 31352 WK N. 13542	CW	(JPL)
M89	5253	26-5-2014	1724	Mon	i.p.	CW	(JPL)
M89	5335	28-5-2014	1405	Wed	i.p. DA36 37T5 63AT 7ANU (Cont'd)	CW	(JPL)
M89	5348	28-5-2014	1423	Wed	i.p. 37A6 65T4 3A5N TNU6 DU5N 6UTA N563 (Cont'd)	CW	(JPL)
M89	5360	2-5-2014	1644	Fri	In tfc: 75TA 6D3T A7N6 UAA3 3565 7NT5 N46N (see N&O 200)	CW	(JPL)
M89	5387	28-5-2014	1414	Wed	i.p. UA.3 T35D 57UD N5A6 (Cont'd)	CW	(JPL)
M89	5391	28-5-2014	1414	Wed	i.p. RMKS 3164670 TO 3164679 K EEE	CW	(JPL)
M89	5413	26-5-2014	1726	Mon	i.p. AR K R OK GA	CW	(JPL)
M89	5433	27-5-2014	1955	Tue	i.p. AR K R R R R SK GB SK GB	CW	(JPL)
M89	5444	29-5-2014	1319	Thu	i.p. 3N64 64U5 ATNU NTDA (Cont'd)	CW	(JPL)
M89	5476	29-5-2014	1320	Thu	i.p. UND6 U.5A 4UD5 3A46 5DN3 (Cont'd)	CW	(JPL)
M89	5496	26-5-2014	1730	Mon	i.p. NR 5136 CK 79 .. 527 .. 0 .. 16.. .. K	CW	(JPL)
M89	5500	1-5-2014	1438	Thu	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
M89	5500	4-5-2014	1944	Sun	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)

code	freq	date	UTC	day	remarks	mode	contributor
M89	5500	5-5-2014	1836	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL)
M89	5500	6-5-2014	1312	Tue	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
M89	5500	13-5-2014	1451	Tue	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
M89	5500	26-5-2014	1342	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd	CW	(JPL)
M89	5500	26-5-2014	2010	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
M89	5555	8-5-2014	1233	Thu	i.p. RMKS 918 FM 3.91 EEEEEEE RMKS 91? FM 392 = N.S 9J8 FM 391. etc.	CW	(JPL)
M89	5555	27-5-2014	0256	Tue	i.p. UT64 3TAA 65TD 45A4 (Cont'd)	CW	(JPL)
M89	5555	28-5-2014	1331	Wed	i.p. NUDT DUN4 46DU N3DA N3D5 (Cont'd)	CW	(JPL)
M89	5555	29-5-2014	1321	Thu	i.p. 7G K NR 101/CF. CU.565 -05 K	CW	(JPL)
M89	5568	26-5-2014	1621	Mon	i.p. 12 ... NR 185/EX .. = BDC/12CQ. QSY 18 QSY 18 VVV	CW	(JPL)
M89	5577	29-5-2014	1325	Thu	i.p. T75N 7DN4 45NA (Cont'd)	CW	(JPL)
M89	5582	28-5-2014	2104	Wed	i.p. BT 4547 ANUD 36A4 DN65 5743 T634 (Cont'd)	CW	(JPL)
M89	5588	6-5-2014	1145	Tue	i.p. III = D3TD 7NU4 6434 UA6 etc	CW	(JPL)
M89	5588	8-5-2014	2209	Thu	i.p. 05 05 05 NV = = III III III = = BIIIISEEEEE = =DUT6 6NTA 5.54 3T5D etc	CW	(JPL)
M89	5588	9-5-2014	1049	Fri	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	5588	10-5-2014	1130	Sat	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	5588	23-5-2014	1252	Fri	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	5588	23-5-2014	1448	Fri	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	5588	26-5-2014	1155	Mon	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	5588	28-5-2014	1139	Wed	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	5588	28-5-2014	1324	Wed	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	5588	29-5-2014	1034	Thu	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	5597	29-5-2014	1326	Thu	i.p. UA.3 U4D. T7DN 63U. (Cont'd)	CW	(JPL)
M89	5628	29-5-2014	1327	Thu	i.p. NPT K NR OK	CW	(JPL)
M89	5636	28-5-2014	2243	Wed	563U 7T.. .T4 (Cont'd)	CW	(JPL)
M89	5657	1-5-2014	1436	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	5657	2-5-2014	1626	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	5657	3-5-2014	1358	Sat	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	5657	4-5-2014	1342	Sun	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	5657	5-5-2014	1228	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	5657	5-5-2014	1844	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	5657	7-5-2014	1409	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	5657	7-5-2014	1758	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	5657	8-5-2014	1229	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	5657	8-5-2014	2203	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	5657	9-5-2014	1343	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	5657	12-5-2014	1651	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	5657	13-5-2014	1457	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	5657	13-5-2014	1958	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	5657	14-5-2014	1502	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	5657	14-5-2014	1738	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	5657	23-5-2014	1255	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	5657	23-5-2014	1450	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	5657	23-5-2014	2042	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	5657	24-5-2014	1335	Sat	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	5657	27-5-2014	1742	Tue	V GKLO (x3) DE TYUI (x2) //3820	CW	(JPL)
M89	5657	27-5-2014	1950	Tue	V GKLO (x3) DE TSTYUI (x2) problems with c/s //3820	CW	(JPL)
M89	5657	28-5-2014	1606	Wed	V GKLO (x3) DE TSTYUI (x2) problems with c/s(Cont'd) //3820	CW	(JPL)
M89	5657	28-5-2014	2052	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	5677	29-5-2014	1329	Thu	i.p. R RPT 83 = = AAA6 K	CW	(JPL)
M89	5692	26-5-2014	1735	Mon	i.p. 7456 T654 7AUT (Cont'd)	CW	(JPL)
M89	5699	26-5-2014	1735	Mon	i.p. 79 87 0227 0100 RMKS 3164482 TO 3164487 K	CW	(JPL)
M89	5761	29-5-2014	1331	Thu	i.p. Both stations on this frequency	CW	(JPL)
M89	5783	30-5-2014	0147	Fri	o.p. = UBB7 34AU 5N7T AT47 46D4 33DU 56U7 TDUT D35N TA54 7ATD (Cont'd)	CW	(JPL)
M89	5801	2-5-2014	1231	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
M89	5801	4-5-2014	1319	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
M89	5801	4-5-2014	1343	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
M89	5801	5-5-2014	1217	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
M89	5801	8-5-2014	1224	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
M89	5801	13-5-2014	1313	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
M89	5801	14-5-2014	1556	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)

code	freq	date	UTC	day	remarks	mode	contributor
M89	5801	23-5-2014	1257	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
M89	5801	24-5-2014	1332	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
M89	5801	25-5-2014	1453	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
M89	5801	26-5-2014	1111	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
M89	5801	27-5-2014	1230	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
M89	5801	28-5-2014	0227	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
M89	5801	28-5-2014	1050	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
M89	5801	29-5-2014	0214	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
M89	5801	29-5-2014	1047	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
M89	5801	30-5-2014	0129	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
M89	5801	30-5-2014	2348	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
M89	5801	31-5-2014	0158	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
M89	6230	25-5-2014	1526	Sun	i.p. A6NU U55. 6.67 3D37 (Cont'd)	CW	(JPL)
M89	6335	23-5-2014	1333	Fri	i.p. mostly unreadable	CW	(JPL)
M89	6383	30-5-2014	1323	Fri	i.p. 47TD N34T A6N5 5T46 (Cont'd) K K QSL ? K	CW	(JPL)
M89	6387	23-5-2014	1336	Fri	i.p. mostly unreadable	CW	(JPL)
M89	6431	29-5-2014	1337	Thu	i.p. 6DT4 73TD 4TA7 AD6U (Cont'd)	CW	(JPL)
M89	6465	29-5-2014	1338	Thu	i.p. 743T DU64 4A3U U5DT (Cont'd)	CW	(JPL)
M89	6480	27-5-2014	2000	Tue	EDVK EDVK EDVK NR 1974/EX 0400 =	CW	(JPL)
M89	6498	28-5-2014	0040	Wed	VV JH7S DE D32D K	CW	(JPL)
M89	6541	29-5-2014	1339	Thu	i.p. DAN3 76UD 5T3U T436 (Cont'd)	CW	(JPL)
M89	6547	29-5-2014	1340	Thu	i.p. RMKS BT BT .3100838 AR K	CW	(JPL)
M89	6560	26-5-2014	1100	Mon	i.p. AAAA NTD4 4DTT 6T.. (Cont'd) III = = = T6.. U5A. 74A4 (Cont'd)	CW	(JPL)
M89	6652	28-5-2014	0101	Wed	VV FY85 FY85 DE CITJ CITJ K	CW	(JPL)
M89	6652	28-5-2014	1653	Wed	i.p. R 3TND 3TND DE JU8L JU8L R QSA 2 QSA ? K	CW	(JPL)
M89	6666	2-5-2014	0229	Fri	In tfc: TU4U 6645 (Cont'd) III A4T4 5TTAQ A647 TT37 T576 3A63 74T5 (Cont'd) AR = K	CW	(JPL)
M89	6681	28-5-2014	0109	Wed	i.p. MSG GA MSG NR 3469 CK 79 18 0528 0900 NMKS 16 EEEEE	CW	(JPL)
M89	6773	8-5-2014	1030	Thu	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
M89	6773	9-5-2014	1046	Fri	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
M89	6773	10-5-2014	1129	Sat	V H2FL (x3) DE DRV8 (x2) (Cont'd) //8040	CW	(JPL)
M89	6773	29-5-2014	1036	Thu	V H2FL (x3) DE DRV8 (x2) (Cont'd) //8041	CW	(JPL)
M89	6831	14-5-2014	1525	Wed	i.p. 12./EX 160 .. R 1. 69/EX 160 =	CW	(JPL)
M89	6840	2-5-2014	0220	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //10640	CW	(JPL)
M89	6840	2-5-2014	2120	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //4860	CW	(JPL)
M89	6840	4-5-2014	1320	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K	CW	(JPL)
M89	6840	4-5-2014	2023	Sun	Q2M de NYZ	CW	(VL)
M89	6840	5-5-2014	1220	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //10640	CW	(JPL)
M89	6840	7-5-2014	1820	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K	CW	(JPL)
M89	6840	8-5-2014	1020	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //10640	CW	(JPL)
M89	6840	8-5-2014	2220	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //4860	CW	(JPL)
M89	6840	10-5-2014	1120	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //10640	CW	(JPL)
M89	6840	13-5-2014	1320	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K	CW	(JPL)
M89	6840	14-5-2014	1520	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	6840	22-5-2014	1825	Thu	VVV Q2M de NYZ QSA? K	CW	(F5JBR)
M89	6840	25-5-2014	1520	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	6840	26-5-2014	0320	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	6840	27-5-2014	0320	VVV	(x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	6840	28-5-2014	0020	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	6840	29-5-2014	0220	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //10640	CW	(JPL)
M89	6850	28-5-2014	1702	Wed	RMKS 21644.0 TO 316449 EEEE 3064 48 0003174 483 K	CW	(JPL)
M89	6851	14-5-2014	1521	Wed	i.p. mostly unreadable AR	CW	(JPL)
M89	6967	28-5-2014	1706	Wed	i.p. AR AR K R RPT 3.. R RPT 40W BT BT 3DNU K GA GA	CW	(JPL)
M89	7021	30-5-2014	1306	Fri	i.p. TND3 DNA7 4.UA UDAN 7N4D AR K K	CW	(JPL)
M89	7095	14-5-2014	1542	Wed	i.p. mostly unreadable	CW	(JPL)
M89	7105	29-5-2014	1343	Thu	i.p. 6TAU N75U ? 5NA6 TDA3 A5N6 AR QSL ? K	CW	(JPL)
M89	7131	23-5-2014	1328	Fri	i.p. mostly unreadable	CW	(JPL)
M89	7543	23-5-2014	1326	Fri	i.p. mostly unreadable	CW	(JPL)
M89	7546	31-5-2014	0846	Sat	i.p. TTUN D54U TNA6 TAU. (Cont'd)	CW	(JPL)
M89	7549	28-5-2014	0127	Wed	i.p. RMKS 3164487 TO 3164481 K =	CW	(JPL)
M89	7559	23-5-2014	1324	Fri	i.p. mostly unreadable	CW	(JPL)
M89	7582	3-5-2014	0625	Sat	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)

code	freq	date	UTC	day	remarks	mode	contributor
M89	7582	30-5-2014	2353	Fri	V H2FL (x3) DE DRV8 (x2) (Cont'd) //8110	CW	(JPL)
M89	7602	29-4-2014	2002		V DKG6 DKG6 DKG6 DE 3A7D 3A7D	CW	(PPA)
M89	7602	1-5-2014	1432	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
M89	7602	1-5-2014	1450	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
M89	7602	2-5-2014	1621	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
M89	7602	3-5-2014	1352	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
M89	7602	4-5-2014	0045	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
M89	7602	5-5-2014	1838	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
M89	7602	6-5-2014	1456	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
M89	7602	6-5-2014	1726	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
M89	7602	6-5-2014	1853	Tue	V DKG7 de 3A7D.	CW	(MPJ)
M89	7602	6-5-2014	2330	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
M89	7602	7-5-2014	1756	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
M89	7602	8-5-2014	2202	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
M89	7602	9-5-2014	2051	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
M89	7602	9-5-2014	2152	Fri	V DKM6 de 3A7D	CW	(F5JBR)
M89	7602	10-5-2014	2241	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
M89	7602	13-5-2014	1449	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
M89	7602	13-5-2014	1954	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
M89	7602	13-5-2014	2242	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
M89	7602	14-5-2014	1736	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
M89	7602	23-5-2014	1456	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
M89	7602	23-5-2014	2055	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
M89	7602	23-5-2014	2341	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
M89	7602	24-5-2014	1525	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
M89	7602	24-5-2014	2216	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
M89	7602	25-5-2014	1519	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
M89	7602	25-5-2014	2140	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
M89	7602	26-5-2014	1800	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
M89	7602	27-5-2014	1944	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
M89	7602	31-5-2014	2319	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
M89	7620	26-5-2014	1758	Mon	i.p. 2U68 QSA ? K R R QSA ? EEE RRR QSA 2 K	CW	(JPL)
M89	7675	2-5-2014	0318	Fri	In tfc: 6D57 3NDN NNT6 4556 D76T (see N&O 200)	CW	(JPL)
M89	7676	23-5-2014	1322	Fri	i.p. mostly unreadable	CW	(JPL)
M89	7678	23-5-2014	1320	Fri	i.p. mostly unreadable	CW	(JPL)
M89	7740	28-5-2014	1711	Wed	i.p. ANUD U764 7UT4 576 ? 5763 46U7 NDU4 (Cont'd)	CW	(JPL)
M89	7773	30-5-2014	1309	Fri	i.p. 5446 74N3 A.4D NT5D (Cont'd)	CW	(JPL)
M89	7797	27-5-2014	2006	Tue	i.p. NR 1908/EX 0406 = X0R/JZ8 AR	CW	(JPL)
M89	7810	27-5-2014	0313	Tue	VVV DP DKG6191 DE DP91	CW	(JPL)
M89	7810	28-5-2014	1109	Wed	i.p. D733 NDT4 T5D5 TAA4 T34A (Cont'd)	CW	(JPL)
M89	7810	29-5-2014	0013	Thu	i.p. DUA7 A7ND A547 TA6N 6U3N 5374 UN36 A5T7 (Cont'd)	CW	(JPL)
M89	7811	29-5-2014	0101	Thu	i.p. ..7R1 QSA 2 QSA ? K	CW	(JPL)
M89	7811	30-5-2014	0136	Fri	i.p. 4DT6 D756 TDUN 6A3D 3D7A (Cont'd)	CW	(JPL)
M89	7889	30-5-2014	1312	Fri	i.p. 7NAU 5U37 43A7 643U 4D67 (Cont'd)	CW	(JPL)
M89	7893	25-5-2014	1509	Sun	i.p. 3U56 UTD6 .ADT6 . A4N 57A. (Cont'd)	CW	(JPL)
M89	7949	28-5-2014	0204	Wed	VV G8WF DE GRBW K	CW	(JPL)
M89	8021	29-5-2014	1052	Thu	i.p. 46DU 5N4T 3A75 (Cont'd)	CW	(JPL)
M89	8040	10-5-2014	1129	Sat	V H2FL (x3) DE DRV8 (x2) (Cont'd) //6773 switched to 4512khz at 1136z	CW	(JPL)
M89	8040	10-5-2014	2244	Sat	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
M89	8040	29-5-2014	1036	Thu	V H2FL (x3) DE DRV8 (x2) (Cont'd) //6773	CW	(JPL)
M89	8072	8-5-2014	1018	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd) //10421	CW	(JPL)
M89	8072	9-5-2014	1042	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //10421	CW	(JPL)
M89	8072	10-5-2014	1125	Sat	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
M89	8072	23-5-2014	0052	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //10421	CW	(JPL)
M89	8072	28-5-2014	0027	Wed	V GKLO (x3) DE TSTYUI (x2) problems with c/s //10421	CW	(JPL)
M89	8072	28-5-2014	1049	Wed	V GKLO (x3) DE TSTYUI (x2) problems with c/s //10421	CW	(JPL)
M89	8072	29-5-2014	0218	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd) //10421	CW	(JPL)
M89	8072	29-5-2014	1032	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd) //10421	CW	(JPL)
M89	8072	30-5-2014	2351	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
M89	8072	31-5-2014	0835	Sat	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
M89	8073	26-5-2014	1150	Mon	i.p. AR R HR . ONE R 5 ARE P5 ONE (Switched to voice)	CW	(JPL)
M89	8075	25-5-2014	1509	Sun	i.p. 364N 3AAU U4.7 34NU (Cont'd)	CW	(JPL)

code	freq	date	UTC	day	remarks	mode	contributor
M89	8077	4-5-2014	1330	Sun	I.p.: N46T .U56 A4N6 544D 74A4 (Cont'd)	CW	(JPL)
M89	8109	23-5-2014	0140	Fri	i.p. 7T33 NA5U 46UT 3AA3 .... = = ..76 63UT N4T4 N7TA 734A ... AR	CW	(JPL)
M89	8109	23-5-2014	0204	Fri	i.p. RMKS 6030 TO 6098 K R R R R R R = = (see N&O 200)	CW	(JPL)
M89	8110	2-5-2014	0226	Fri	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
M89	8110	5-5-2014	1219	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
M89	8110	30-5-2014	2353	Fri	V H2FL (x3) DE DRV8 (x2) (Cont'd) //7582	CW	(JPL)
M89	8110	31-5-2014	0154	Sat	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
M89	8150	2-5-2014	0318	Fri	In tfc	CW	(JPL)
M89	8185	27-5-2014	2012	Tue	i.p. /EX 0412 = W5O/IP8 AR QSY LW QSY LW VVV	CW	(JPL)
M89	8212	30-5-2014	1320	Fri	476U 643A D7.N T57N 6D7N (Cont'd)	CW	(JPL)
M89	8256	28-5-2014	1717	Wed	i.p. DTA5 A65U 5T46 T4N3 5TU7 (Cont'd)	CW	(JPL)
M89	8256	30-5-2014	1315	Fri	i.p. 63A4 D4TA 3UAN 67AT (Cont'd)	CW	(JPL)
M89	8263	30-5-2014	1318	Fri	i.p. A3T6 UT57 4.3D (Cont'd)	CW	(JPL)
M89	8283	25-5-2014	1458	Sun	i.p. RR VV B2BD DE S3YP K	CW	(JPL)
M89	8346	28-5-2014	1721	Wed	i.p. 43N6 DA3T A65N NTDU 6UD5 754N (Cont'd)	CW	(JPL)
M89	8370	28-5-2014	1726	Wed	i.p. 735N N573 N5.3 4TU3 47DU (Cont'd)	CW	(JPL)
M89	8512	31-5-2014	0210	Sat	PRDG DE 2MVZ QSA 3 QSA ? K WRTK DE 2MVZ QSA 3 QSA ? K	CW	(JPL)
M89	8676	31-5-2014	0201	Sat	V CQ (x3) DE DP91 (x2) (Cont'd)	CW	(JPL)
M89	8888	7-5-2014	1413	Wed	(i.p. 05 05 6DT5 05 05 05 05 VV K 05 = AR 05 05 05 05 etc.	CW	(JPL)
M89	8888	28-5-2014	1326	Wed	i.p. S/CCK CK 3330 231 31 0528 2130 RMKS 2492 TO 5216 = = = T77D A3AN T..7 7NUA (Cont'd)	CW	(JPL)
M89	8975	28-5-2014	1732	Wed	i.p. N64U 5U3D 4A6D A57D TAD4 DT34 (Cont'd)	CW	(JPL)
M89	9203	27-5-2014	1313	Tue	i.p. 2100 RMKS 0113 TO 0119 K	CW	(JPL)
M89	9213	27-5-2014	1232	Tue	V U5IK DE YLE9 K	CW	(JPL)
M89	9239	23-5-2014	1313	Fri	i.p. VVV W = ... U346 4DAN .. (Cont'd)	CW	(JPL)
M89	9245	27-5-2014	1306	Tue	i.p. 3U CK 61 25 0527 2100 RMKS 0119 TO 0113 K	CW	(JPL)
M89	10180	22-4-2014	1914		V DKG6 DKG6 DKG6 DE 3A7D 3A7D	CW	(PPA)
M89	10180	2-5-2014	0219	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
M89	10180	2-5-2014	1231	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
M89	10180	2-5-2014	1310	Fri	3A7D in tfc: T5U3 NT75 5NDD 64AU NUD5 73? 637A N7D6 (Cont'd) AR QSL? HR WK NR 270	CW	(JPL)
M89	10180	3-5-2014	0533	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
M89	10180	4-5-2014	0927	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
M89	10180	4-5-2014	1319	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
M89	10180	4-5-2014	1343	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
M89	10180	5-5-2014	1217	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
M89	10180	6-5-2014	1145	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
M89	10180	8-5-2014	1224	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
M89	10180	9-5-2014	1045	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
M89	10180	10-5-2014	1126	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
M89	10180	13-5-2014	1313	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
M89	10180	14-5-2014	0855	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
M89	10180	14-5-2014	1141	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
M89	10180	14-5-2014	1556	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
M89	10180	23-5-2014	0058	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
M89	10180	23-5-2014	1257	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
M89	10180	24-5-2014	1332	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
M89	10180	25-5-2014	1453	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
M89	10180	26-5-2014	0333	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
M89	10180	26-5-2014	1111	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
M89	10180	27-5-2014	0311	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
M89	10180	27-5-2014	1230	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
M89	10180	28-5-2014	0227	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
M89	10180	28-5-2014	1050	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
M89	10180	29-5-2014	0214	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
M89	10180	29-5-2014	1013	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
M89	10180	29-5-2014	1047	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
M89	10180	30-5-2014	0129	Fri	3A7D i.p. SVC GA EEE VV HR SVC GA NR 117 0930 RMKS 5188 TO 5508 =	CW	(JPL)
M89	10180	30-5-2014	2348	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
M89	10180	31-5-2014	0158	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
M89	10180	31-5-2014	0843	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
M89	10213	29-5-2014	1009	Thu	i.p. DA4N 47.. 54.. 4.U A4N. AR K	CW	(JPL)

code	freq	date	UTC	day	remarks	mode	contributor
M89	10289	28-5-2014	1052	Wed	i.p. R QSA 3 K R R GA K R R QSL 1853 QSL 1853 K	CW	(JPL)
M89	10421	8-5-2014	1018	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd) //8072	CW	(JPL)
M89	10421	9-5-2014	1042	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //8072	CW	(JPL)
M89	10421	23-5-2014	0052	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //8072	CW	(JPL)
M89	10421	28-5-2014	0027	Wed	V GKLO (x3) DE TSTYUI (x2) problems with c/s //8072	CW	(JPL)
M89	10421	28-5-2014	1049	Wed	V GKLO (x3) DE TSTYUI (x2) problems with c/s //8072	CW	(JPL)
M89	10421	29-5-2014	0218	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd) //8072	CW	(JPL)
M89	10421	29-5-2014	1032	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd) //8072	CW	(JPL)
M89	10640	2-5-2014	0220	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K (//6840	CW	(JPL)
M89	10640	3-5-2014	0620	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K	CW	(JPL)
M89	10640	5-5-2014	1220	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
M89	10640	8-5-2014	1020	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
M89	10640	10-5-2014	1120	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
M89	10640	26-5-2014	0320	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	10640	26-5-2014	1220	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	10640	28-5-2014	0020	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	10640	28-5-2014	0220	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	12182	26-5-2014	1100	Mon	i.. TA6D D465 53.. 3D64 6543 (Cont'd)	CW	(JPL)
M89	16720	2-5-2014	1251	Fri	V PGG9 (x3) DE MI6Y (x2) (Cont'd)	CW	(JPL)
M89	16720	2-5-2014	1709	Fri	V PGG9 (x3) DE MI6Y (x2) (Cont'd)	CW	(JPL)
M89	16720	3-5-2014	0526	Sat	V PGG9 (x3) DE MI6Y (x2) (Cont'd)	CW	(JPL)
M89	16720	12-5-2014	1040	Mon	PGG9 de MI6Y V	CW	(F5JBR)
M89	16720	12-5-2014	1654	Mon	V PGG9 (x3) DE MI6Y (x2) (Cont'd)	CW	(JPL)
M89	16720	12-5-2014	2004	Mon	PGG9 de MI6Y V	CW	(Brit)
M89	16720	13-5-2014	1312	Tue	V PGG9 (x3) DE MI6Y (x2) (Cont'd)	CW	(JPL)
M89	16720	13-5-2014	1425	Tue	pgg9 pgg9 pgg9 de mi6y mis6y v	CW	(AAI)
M89	16720	13-5-2014	2000	Tue	V PGG9 (x3) DE MI6Y (x2) (Cont'd)	CW	(JPL)
M89	16720	13-5-2014	2240	Tue	V PGG9 (x3) DE MI6Y (x2) (Cont'd)	CW	(JPL)
MX	7027	27-5-2014	2034	Tue	Beacon "V"	CW	(IARUMS)
MX	7027	31-5-2014	1745	Sat	Beacon "V"	CW	(IARUMS)
MX	8494.7	23-5-2014	1134	Fri	Beacon "D" Sevastopol	CW	(WP3)
MX	8494.8	23-5-2014	1134	Fri	Beacon "P" Kaliningrad	CW	(WP3)
MX	9883	28-5-2014	1412	Wed	Beacon "V"	CW	(AAI)
RMv	6450	13-5-2014	1514	Tue	Russian Military test	USB	(AB)
RMv	6450	13-5-2014	1536	Tue	Russian Military test 1 2 3 4 5 6 7 8 9 priyom	USB	(AB)
S06	6873	3-5-2014	1605	Sat	194 0	USB	(HFD)
S06	6984	8-5-2014	1905	Thu	349 0	USB	(HFD)
S06	6984	19-5-2014	1905	Mon	349 0	USB	(HFD)
S06	6984	22-5-2014	1905	Thu	349 349 349 00000	AM	(GHn)
S06	6984	22-5-2014	1905	Thu	349 0	USB	(HFD)
S06	6984	26-5-2014	1905	Mon	349 0	USB	(HFD)
S06	7947	17-5-2014	1600	Sat	194 0	USB	(HFD)
S06	7982	1-5-2014	1900	Thu	349 0	USB	(HFD)
S06	7982	5-5-2014	1900	Mon	349 0	USB	(HFD)
S06	7982	12-5-2014	1900	Mon	349 0	USB	(HFD)
S06	9164	3-5-2014	1900	Sat	621 0	USB	(HFD)
S06	13490	26-5-2014	1915	Mon	426 0	USB	(HFD)
S06	15835	12-5-2014	1815	Mon	426 0	USB	(HFD)
S06	15835	12-5-2014	1915	Mon	426 426 426 00000	AM	(GHn)
S06	15835	26-5-2014	1815	Mon	426 0	USB	(HFD)
S06c	12220	14-5-2014	1645	Wed	11022	USB	(Avare)
S06s	5835	7-5-2014	0830	Wed	471	USB	(HFD)
S06s	6125	2-5-2014	0810	Fri	278	USB	(HFD)
S06s	6125	23-5-2014	0810	Fri	278 430 5 88620 28069 61732 74537 57440 430 5 00000	AM	(AB)
S06s	6666	6-5-2014	1500	Tue	537-914/6=91309	USB	(HFD)
S06s	6755	7-5-2014	0820	Wed	471-920/5=45231	USB	(HFD)
S06s	6766	27-5-2014	1500	Tue	537 401 6 18273 64736 09837 22890 78336 28289 401 6 00000. Should be on 6666 kHz	USB	(Avare)
S06s	7630	1-5-2014	0940	Thu	314 weak	USB	(HFD)
S06s	7650	2-5-2014	0800	Fri	278-409/5=98795	USB	(HFD)
S06s	7650	23-5-2014	0800	Fri	278 430 5 88620 28069 61732 74537 57440 430 5 00000	AM	(AB)
S06s	7744	6-5-2014	1510	Tue	537	USB	(HFD)

code	freq	date	UTC	day	remarks	mode	contributor
S06s	7744	20-5-2014	1510	Tue	537 401 6 18273 64736 09837 22890 78336 28289 401 6 00000	USB	(AB)
S06s	7845	2-5-2014	0600	Fri	196-407/5=33796	USB	(HFD)
S06s	7845	9-5-2014	0600	Fri	196 407 5 33796 13577 74525 46647 69302 407 5 00000	USB	(AB)
S06s	7845	16-5-2014	0600	Fri	196 832 5 46082 68672 97478 39685 30485 832 5 00000	USB	(AB)
S06s	7845	23-5-2014	0600	Fri	196 832 5 46062 68672 97478 39685 30485 832 5 00000	AM	(AB)
S06s	8221	5-5-2014	0830	Mon	371-802/5=91127	USB	(HFD)
S06s	9125	2-5-2014	0610	Fri	196	USB	(HFD)
S06s	9125	9-5-2014	0610	Fri	196 407 5 33796 13577 74525 46647 69302 407 5 00000	USB	(AB)
S06s	9125	16-5-2014	0610	Fri	196 832 5 46082 68672 97478 39685 30485 832 5 00000	USB	(AB)
S06s	9125	23-5-2014	0610	Fri	196 832 5 46062 68672 97478 39685 30485 832 5 00000	AM	(AB)
S06s	9255	1-5-2014	0930	Thu	314 weak	USB	(HFD)
S06s	9353	5-5-2014	0840	Mon	371	USB	(HFD)
S06s	9655	2-5-2014	0940	Fri	516	USB	(HFD)
S06s	9655	9-5-2014	0940	Fri	516 420 7 96320 36793 53038 76342 15009 34140 87386 420 7 00000	AM	(AB)
S06s	9655	16-5-2014	0940	Fri	516 203 7 88146 57856 98835 46186 16945 80744 86300 203 7 00000	AM	(AB)
S06s	9655	23-5-2014	0945	Fri	516 203 7 88146 57856 98835 46186 16945 80744 86300 203 7 00000	AM	(AB)
S06s	10230	5-5-2014	1200	Mon	831 weak	USB	(HFD)
S06s	10250	3-5-2014	1210	Sat	254	USB	(HFD)
S06s	10290	2-5-2014	0930	Fri	516-420/7=96320	USB	(HFD)
S06s	10290	9-5-2014	0930	Fri	516 420 7 96320 36793 53038 76342 15009 34140 87386 420 7 00000	AM	(AB)
S06s	10290	16-5-2014	0930	Fri	516 203 7 88146 57856 98835 46186 16945 80744 86300 203 7 00000	AM	(AB)
S06s	11655	13-5-2014	0740	Tue	427-816/5	USB	(HFD)
S06s	11655	27-5-2014	0740	Tue	427-961/5=19199	USB	(HFD)
S06s	11742	2-5-2014	0600	Fri	934-206/5=56947	USB	(HFD)
S06s	11742	9-5-2014	0600	Fri	934 206 5 56947 34917 65103 59294 51162 206 5 00000	USB	(AB)
S06s	11742	23-5-2014	0600	Fri	934 201 5 33796 13577 74526 46647 79302 201 5 00000	AM	(AB)
S06s	11752	16-5-2014	0600	Fri	934 201 5 33796 13577 74526 46647 79302 201 5 00000	USB	(AB)
S06s	12110	7-5-2014	0730	Wed	745	USB	(HFD)
S06s	12165	5-5-2014	1210	Mon	831	USB	(HFD)
S06s	12355	2-5-2014	0610	Fri	934	USB	(HFD)
S06s	12355	9-5-2014	0610	Fri	934 206 5 56947 34917 65103 59294 51162 206 5 00000	USB	(AB)
S06s	12355	16-5-2014	0610	Fri	934 201 5 33796 13577 74526 46647 79302 201 5 00000	USB	(AB)
S06s	12355	23-5-2014	0600	Fri	934 201 5 33796 13577 74526 46647 79302 201 5 00000	AM	(AB)
S06s	12460	3-5-2014	1200	Sat	254-803/6=56342	USB	(HFD)
S06s	12935	6-5-2014	0810	Tue	352	USB	(HFD)
S06s	13145	1-5-2014	1200	Thu	425-836/7=37109	USB	(HFD)
S06s	14373	6-5-2014	0800	Tue	352-918/6=81623	USB	(HFD)
S06s	14535	1-5-2014	1210	Thu	425	USB	(HFD)
S06s	14580	14-5-2014	1000	Wed	729-483/5=61028	USB	(HFD)
S06s	14835	5-5-2014	0910	Mon	872 weak	USB	(HFD)
S06s	14875	11-5-2014	0645	Sun	i.p. 968 7 00000. New sked.	USB	(Avare)
S06s	14977	7-5-2014	0745	Wed	745	USB	(HFD)
S06s	15230	27-5-2014	0610	Tue	438	USB	(HFD)
S06s	16020	14-5-2014	1010	Wed	729	USB	(HFD)
S06s	16735	6-5-2014	0600	Tue	438 960 5 16014 42676 55730 44736 95879 960 5 00000	USB	(Avare)
S06s	16735	27-5-2014	0600	Tue	438-971/5=40673	USB	(HFD)
S06s	16830	5-5-2014	0900	Mon	872-901/5=82110	USB	(HFD)
S11a	4870	2-5-2014	1955	Fri	370/00	USB	(HFD)
S11a	4870	7-5-2014	1955	Wed	370/35 vnimanie 96510 34765 75266 ... 94168 21016 22185 vnimanie, rpt msg, konec	USB	(AB)
S11a	5815	3-5-2014	1020	Sat	221/00	USB	(HFD)
S11a	8530	2-5-2014	0915	Fri	484/00	USB	(HFD)
S11a	11581	2-5-2014	1020	Fri	426/00	USB	(HFD)
S11a	16530	1-5-2014	1015	Thu	475/00	USB	(HFD)
S25	11520	29-5-2014	1500	Thu	049 67292 049 51612 00000 00000	USB	(Avare)
S25	13415	29-5-2014	0704	Thu	049 65912 00000 00000	USB	(Avare)
S25	13915	29-5-2014	1453	Thu	049 65562 049 64202	USB	(Avare)
S28	4625	4-5-2014	1131	Sun	MDZhB 20 368 PETALIT 37 97 01 10 KANDYK 14 79 61 41 Priyom	USB	(Avare)
S28	4625	6-5-2014	0705	Tue	MDZhB 68 537 FAZULINA 61 71 64 14	USB	(DJPr)
S28	4625	6-5-2014	0705	Tue	MDZhB 68 537 FAZULINA 61 71 64 14	USB	(DJPr)
S28	4625	7-5-2014	0903	Wed	MDZhB 56 823 TARNYJ 69 43 31 37	USB	(DJPr)
S28	4625	7-5-2014	0905	Wed	MDZhB 33 751 FAYaLIT 98 68 76 81	USB	(DJPr)

code	freq	date	UTC	day	remarks	mode	contributor
S28	4625	7-5-2014	0906	Wed	MDZhB 80 034 CETRATIJ 67 35 36 32	USB	(DJPr)
S28	4625	18-5-2014	1240	Sun	MDZhB 85 745 KALKAN 95 43 63 15	USB	(DJPr)
S28	4625	18-5-2014	1341	Sun	MDZhB 49 744 ChAPELNIK 10 96 64 83	USB	(DJPr)
S30	5448	13-5-2014	1625	Tue	8S1Shch prognoz pogody na reke Kalaus Stavropol'skogo kraya 14-15 maya ozhidayetsya pod'yom urovnya vody do neblagopriyatnykh otmetok. Priyom	USB	(Avare)
SDN	21000	28-4-2014	1730		MFA Khartoum clg embassy Yemen	USB	(IARUMS)
SDN	21002.1	28-4-2014	1731		MFA Khartoum msg to embassy Yemen	Pactor-1	(IARUMS)
UM01	3581	1-5-2014	1444	Thu	CQ P 16	CW	(JPL-Sib)
UM01	3581	1-5-2014	1624	Thu	CQ P 14	CW	(JPL-Sib)
UM01	3581	1-5-2014	1845	Thu	CQ P 12	CW	(JPL-Sib)
UM01	3581	1-5-2014	1944	Thu	CQ P 11	CW	(JPL-Sib)
UM01	3581	1-5-2014	2045	Thu	CQ P 11	CW	(JPL-Sib)
UM01	3581	2-5-2014	0825	Fri	CQ P 20	CW	(AB-Sib)
UM01	3581	3-5-2014	0512	Sat	CQ P 21	CW	(JPL-Sib)
UM01	3581	3-5-2014	0805	Sat	CQ P 22	CW	(AB-Sib)
UM01	3581	3-5-2014	1405	Sat	CQ P 21	CW	(JPL-Sib)
UM01	3581	3-5-2014	1747	Sat	CQ P 18	CW	(JPL-Sib)
UM01	3581	3-5-2014	1844	Sat	CQ P 17	CW	(JPL-Sib)
UM01	3581	4-5-2014	0040	Sun	CQ P 15	CW	(JPL-Sib)
UM01	3581	4-5-2014	0756	Sun	CQ P 23	CW	(AB-Sib)
UM01	3581	4-5-2014	0920	Sun	CQ P 22	CW	(JPL-Sib)
UM01	3581	4-5-2014	0932	Sun	CQ P 23	CW	(JPL-Sib)
UM01	3581	4-5-2014	1310	Sun	CQ P 22	CW	(JPL-Sib)
UM01	3581	5-5-2014	1445	Mon	CQ P 23	CW	(AB-Sib)
UM01	3581	6-5-2014	1648	Tue	CQ P 11	CW	(AB-Sib)
UM01	3581	6-5-2014	2040	Tue	CQ P 17	CW	(AB-Sib)
UM01	3581	9-5-2014	1754	Fri	CQ P 14	CW	(AB-Sib)
UM01	3581	9-5-2014	1905	Fri	CQ P 13	CW	(AB-Sib)
UM01	3581	9-5-2014	2022	Fri	CQ P 13	CW	(AB-Sib)
UM01	3581	11-5-2014	1848	Sun	CQ P 5	CW	(AB)
UM01	3581	11-5-2014	2112	Sun	CQ P 4	CW	(AB)
UM01	3581	12-5-2014	1458	Mon	CQ P 14	CW	(JPL-Sib)
UM01	3581	12-5-2014	1640	Mon	CQ P 15	CW	(AB-Sib)
UM01	3581	12-5-2014	2045	Mon	CQ P 16	CW	(AB-Sib)
UM01	3581	13-5-2014	1328	Tue	CQ P 16	CW	(JPL-Sib)
UM01	3581	13-5-2014	1456	Tue	CQ P 15	CW	(AB-Sib/JPL)
UM01	3581	13-5-2014	1907	Tue	CQ P 13	CW	(JPL-Sib)
UM01	3581	13-5-2014	2247	Tue	CQ P 12	CW	(JPL-Sib)
UM01	3581	14-5-2014	1449	Wed	CQ P 13	CW	(AB-Sib)
UM01	3581	14-5-2014	1454	Wed	CQ P 13	CW	(JPL-Sib)
UM01	3581	14-5-2014	1655	Wed	CQ P 11	CW	(AB-Sib)
UM01	3581	14-5-2014	1742	Wed	CQ P 13	CW	(JPL-Sib)
UM01	3581	16-5-2014	1513	Fri	CQ P 15	CW	(AB-Sib)
UM01	3581	16-5-2014	1723	Fri	CQ P 14	CW	(AB-Sib)
UM01	3581	20-5-2014	0447	Tue	CQ P 9	CW	(AB-Sib)
UM01	3581	22-5-2014	1516	Thu	CQ P 13	CW	(JPL-Sib)
UM01	3581	22-5-2014	1547	Thu	CQ P 12	CW	(JPL-Sib)
UM01	3581	25-5-2014	1601	Sun	CQ P 9	CW	(JPL-Sib)
UM01	3581	26-5-2014	1347	Mon	CQ P 10	CW	(JPL-Sib)
UM01	3581	26-5-2014	1558	Mon	CQ P 10	CW	(JPL-Sib)
UM01	3581	26-5-2014	1712	Mon	CQ P 10	CW	(JPL-Sib)
UM01	3581	28-5-2014	0031	Wed	CQ P 7	CW	(JPL-Sib)
UM01	3581	28-5-2014	0031	Wed	CQ P 7	CW	(JPL-Sib)
UM01	3581	28-5-2014	0202	Wed	CQ P 8	CW	(JPL-Sib)
UM01	3581	28-5-2014	1040	Wed	CQ P 9	CW	(JPL-Sib)
UM01	3581	28-5-2014	1134	Wed	CQ P 9	CW	(JPL-Sib)
UM01	3581	28-5-2014	1342	Wed	CQ P 8	CW	(JPL-Sib)
UM01	3581	28-5-2014	1639	Wed	CQ P 8	CW	(JPL-Sib)
UM01	3581	28-5-2014	2040	Wed	CQ P 7	CW	(JPL-Sib)
UM01	3581	29-5-2014	0010	Thu	CQ P 7	CW	(JPL-Sib)
UM01	3581	29-5-2014	0150	Thu	CQ P 8	CW	(JPL-Sib)
UM01	3581	29-5-2014	0317	Thu	CQ P 9	CW	(JPL-Sib)

code	freq	date	UTC	day	remarks	mode	contributor
UM01	3581	29-5-2014	1044	Thu	CQ P 11	CW	(JPL-Sib)
UM01	3581	29-5-2014	1317	Thu	CQ P 10	CW	(JPL-Sib)
UM01	3581	30-5-2014	0126	Fri	CQ P 6	CW	(JP-Sib)
UM01	3581	30-5-2014	0126	Fri	CQ P 9	CW	(JP-Sib)
UM01	3581	30-5-2014	0126	Fri	CQ P 6	CW	(JP-Sib)
UM01	3851	23-5-2014	2055	Fri	CQ P 14	CW	(AB-Sib)
UM01	3851	24-5-2014	0202	Sat	CQ P 8	CW	(JPL-Sib)
UM01	3851	24-5-2014	1307	Sat	CQ P 14	CW	(JPL-Sib)
UM01	3851	24-5-2014	2051	Sat	CQ P 14	CW	(JPL-Sib)
UM01	3851	27-5-2014	0328	Tue	CQ P 8	CW	(JPL-Sib)
UM01	3851	27-5-2014	1221	Tue	CQ P 9	CW	(JPL-Sib)
UM01	3851	27-5-2014	1726	Tue	CQ P 9	CW	(JPL-Sib)
UM01	3851	27-5-2014	1942	Tue	CQ P 8	CW	(JPL-Sib)
UM01	3851	27-5-2014	2207	Tue	CQ P 8	CW	(JPL-Sib)
UM01	3851	31-5-2014	0227	Sat	CQ P 9	CW	(JPL-Sib)
UM01	3851	31-5-2014	0837	Sat	CQ P 10	CW	(JPL-Sib)
UM01	3851	31-5-2014	2310	Sat	CQ P 7	CW	(JPL-Sib)
UM10	3334	1-5-2014	1447	Thu	Unid 10-mins net: POCI //4136 kHz	CW	(JPL-Sib)
UM10	3709	1-5-2014	1627	Thu	Unid 10-mins net: NJ6A	CW	(JPL-Sib)
UM10	3709	1-5-2014	1952	Thu	Unid 10-mins net: NJ6A	CW	(JPL-Sib)
UM10	4136	1-5-2014	1447	Thu	Unid 10-mins net: POCI //3334 kHz	CW	(JPL-Sib)
V02a	7554	8-5-2014	2009	Thu	YL/SS in LSB announcing 5F grps. Should be M08a	AM	(DSch)
V02a	8135	1-5-2014	2304	Thu	V02a mixing with M08a. Voice off CW continues	AM	(DSch)
V07	11182	5-5-2014	0540	Mon	511 511 511 1 (x5) 281 79 (x2) ?1128 89?6? ..... 55173 730?3 000 000	USB	(Dan)
V07	12138	4-5-2014	2030	Sun	04915 00091 14631 … 61300	USB	(Dan)
V07	12182	5-5-2014	0520	Mon	only test tones	USB	(Dan)
V07	12182	11-5-2014	0520	Sun	511 511 511 000 (x5)	USB	(Dan)
V07	12182	25-5-2014	0520	Sun	511 511 511 000	USB	(Dan)
V07	13538	4-5-2014	2020	Sun	04915 00091 14631 … 61300	USB	(Dan)
V07	13582	11-5-2014	0500	Sun	511 511 511 000 (x5)	USB	(Dan)
V07	13582	25-5-2014	0500	Sun	511 511 511 000	USB	(Dan)
V07	14538	4-5-2014	2000	Sun	04915 00091 14631 … 61300	USB	(Dan)
V13	15388	20-5-2014	0700	Tue	New Star #4. Tune followed by Chinese numbers	AM	(AB-HK)
V13	15388	20-5-2014	0800	Tue	New Star #4. Tune followed by Chinese numbers	AM	(AB-HK)
V13	15388	23-5-2014	0700	Fri	New Star #4. Tune followed by Chinese numbers	AM	(AB-HK)
VC03	9219	20-5-2014	1740	Tue	Chinese Air Defense net	USB	(AB)
VC03	9219	21-5-2014	1742	Wed	Chinese Air Defense net	USB	(AB)
X06	9106	8-5-2014	1528	Thu	Mazielka. Sequence: 564213	USB	(PUK)
X06	10372	12-5-2014	0840	Mon	Mazielka. Sequence: 431625	USB	(Av/Danix/toto)
X06	10649	26-5-2014	0901	Mon	Mazielka. Sequence: 156234	USB	(PUK)
X06	11025	13-5-2014	1038	Tue	Mazielka. Sequence: 612534	USB	(PUK)
X06	12100	13-5-2014	1045	Tue	Mazielka. Sequence: 612534	USB	(PUK)
X06	12157	6-5-2014	0750	Tue	Mazielka. Sequence: 165423	USB	(PUK)
X06	12207	26-5-2014	1404	Mon	Mazielka. Sequence: 215346	USB	(PUK)
X06	13420	13-5-2014	0744	Tue	Mazielka. Sequence: 534216	USB	(PUK)
X06	13420	26-5-2014	0757	Mon	Mazielka. Sequence: 534216 preceded by CROWD-36	USB	(PUK)
X06	13510	23-5-2014	0452	Fri	Mazielka. Sequence: 216435	USB	(Ava-re/Danix)
X06	13510	27-5-2014	1116	Tue	Mazielka. Sequence: 612534	USB	(PUK)
X06	14501	16-5-2014	1002	Fri	Mazielka. Sequence: 361245	USB	(PUK)
X06	14650	6-5-2014	0849	Tue	Mazielka. Sequence: 215346	USB	(PUK)
X06	14650	8-5-2014	1528	Thu	Mazielka. Sequence: H3E, 1330-1347 UTC: 215346	USB	(Ava-re/Danix/toto)
X06	14970	8-5-2014	1528	Thu	Mazielka. Sequence: H3E, 1335-1348 UTC: 216354	USB	(Ava-re/Danix/toto)
X06	16115	7-5-2014	0727	Wed	Mazielka. Sequence: 215346	USB	(PUK)
X06	16115	8-5-2014	1528	Thu	Mazielka. Sequence: H3E, 1348-1400 UTC: 215346	USB	(Ava-re/Danix/toto)
X06	16115	26-5-2014	1521	Mon	Mazielka. Sequence: 215346	USB	(PUK)

code	freq	date	UTC	day	remarks	mode	contributor
X06	16117	12-5-2014	0936	Mon	Mazielka. Sequence: 463125	USB	(PUK)
X06	16188	4-5-2014	0753	Sun	Mazielka. Sequence: 325614	USB	(Avare)
X06	17430	7-5-2014	0955	Wed	Mazielka. Sequence: 215346	USB	(PUK)
X06	18177	6-5-2014	0807	Tue	Mazielka. Sequence: 164253	USB	(PH)
X06	18177	6-5-2014	0809	Tue	Mazielka. Sequence: 164253	USB	(PH)
X06	18197	18-5-2014	1007	Sun	Mazielka. Sequence: 645321	USB	(PH)
X06	18206	6-5-2014	0924	Tue	Mazielka. Sequence: 246531	USB	(PH)
X06	18206	6-5-2014	0926	Tue	Mazielka. Sequence: 246531	USB	(PUK)
X06	18206	20-5-2014	0924	Tue	Mazielka. Sequence: 246531	USB	(Dan)
X06	18575	15-5-2014	1243	Thu	Mazielka. Sequence: 352416	USB	(PH/GH)
X06	18660	14-5-2014	1101	Wed	Mazielka. Sequence: 621543	USB	(MCO)
X06	19405	15-5-2014	1235	Thu	Mazielka. Sequence: 352416	USB	(PH)
X06	19611	23-5-2014	1006	Fri	Mazielka. Sequence: 256134	USB	(PH)
X06	20334	6-5-2014	0800	Tue	Mazielka. Sequence: 164253	USB	(PH)
X06	20335	6-5-2014	0759	Tue	Mazielka. Sequence: 613524	USB	(PUK)
X06	20605	23-5-2014	0958	Fri	Mazielka. Sequence: 256134	USB	(PH)
X06b	10500	27-5-2014	1116	Tue	Mazielka. Sequence: 1-----	USB	(Danix)
X06b	14538	4-5-2014	1829	Sun	Mazielka. Sequence: 1-6	USB	(Dan)
X06b	14538	4-5-2014	1840	Sun	Mazielka. Sequence: 1-6	USB	(Dan)
XPA	9138	1-5-2014	1810	Thu	msg	MFSK	(HFD)
XPA	9938	1-5-2014	1753	Thu	msg	MFSK	(HFD)
XPA	10438	1-5-2014	1730	Thu	msg	MFSK	(HFD)
XPA	10868	10-5-2014	0600	Sat	813 813 813 000	MFSK	(AB)
XPA	10868	14-5-2014	0600	Wed	msg	MFSK	(HFD)
XPA	10868	17-5-2014	0600	Sat	813 813 813 1 08209 00117 87313 ... 80586 52680 52373	MFSK	(AB)
XPA	12138	11-5-2014	2040	Sun	07664 00001 00000 10140	MFSK	(Dan)
XPA	12168	10-5-2014	0620	Sat	813 813 813 000	MFSK	(AB)
XPA	12168	14-5-2014	0620	Wed	msg	MFSK	(HFD)
XPA	12168	17-5-2014	0620	Sat	813 813 813 1 08209 00117 87313 ... 80586 52680 52373	MFSK	(AB)
XPA	13368	14-5-2014	0640	Wed	msg	MFSK	(HFD)
XPA	13368	17-5-2014	0640	Sat	813 813 813 1 08209 00117 87313 ... 80586 52680 52373	MFSK	(AB)
XPA	13538	11-5-2014	2020	Sun	07664 00001 00000 10140	MFSK	(Dan)
XPA	14538	11-5-2014	2000	Sun	07664 00001 00000 10140	MFSK	(Dan)
XPA2	12138	4-5-2014	2040	Sun	04915 00091 14631 ... 61300	MFSK	(Dan)
XPA2	12138	4-5-2014	2040	Sun	msg	MFSK	(HFD)
XPA2	12138	18-5-2014	2040	Sun	01765 00087 21416 ... 15537 81287 55241	MFSK	(Dan)
XPA2	13538	4-5-2014	2020	Sun	04915 00091 14631 ... 61300	MFSK	(Dan)
XPA2	13538	4-5-2014	2020	Sun	msg	MFSK	(HFD)
XPA2	13538	18-5-2014	2020	Sun	01765 00087 21416 ... 15537 81287 55241	MFSK	(Dan)
XPA2	14514	30-5-2014	1540	Fri	08441 00091 72870 ... 74955 00686 05704	MFSK-16	(SP1)
XPA2	14538	4-5-2014	2000	Sun	04915 00091 14631 ... 61300	MFSK	(Dan)
XPA2	14538	4-5-2014	2000	Sun	msg	MFSK	(HFD)
XPA2	14538	18-5-2014	2000	Sun	01765 00087 21416 ... 15537 81287 55241	MFSK	(Dan)
XPA2	14828	2-5-2014	1940	Fri	04359 00071 83874 ... 61606 70961 13611	MFSK	(Dan)
XPA2	14828	2-5-2014	1940	Fri	msg	MFSK	(HFD)
XPA2	14828	16-5-2014	1939	Fri	07177 00097 07374 ... 30266 08086 60730	MFSK	(SP1)
XPA2	14828	30-5-2014	1940	Fri	62 blocks of 5 numbers (04821 ... 15074)	MFSK-16	(Nico)
XPA2	16114	2-5-2014	1920	Fri	04359 00071 83874 ... 61606 70961 13611	MFSK	(Dan)
XPA2	16114	2-5-2014	1920	Fri	msg	MFSK	(HFD)
XPA2	16114	9-5-2014	1920	Fri	03738 00001 00000 10140	MFSK	(PPA)
XPA2	16114	31-5-2014	1919	Sat	06213 00001 00000 10140	MFSK	(SP1)
XPA2	16314	18-5-2014	1500	Sun	03600 00235 42364 ... 19099 53862 37027	MFSK	(MCO)
XPA2	17462	2-5-2014	1900	Fri	04359 00071 83874 ... 61606 70961 13611	MFSK	(Dan)
XPA2	17462	2-5-2014	1900	Fri	msg	MFSK	(HFD)
XPA2	17462	9-5-2014	1900	Fri	03738 00001 00000 10140	MFSK	(PPA)
XPA2	18057	2-5-2014	0740	Fri	msg	MFSK	(HFD)
XPA2	19557	2-5-2014	0720	Fri	msg	MFSK	(HFD)
XPA2	21857	2-5-2014	0700	Fri	msg	MFSK	(HFD)

CONTRIBUTORS

AAI	Antonio Anselmi, Italy
AB	Ary Boender, Netherlands
AB-SIB	Ary Boender via remote rx Siberia
Avare	Avare
BCI	Bruno Casula, Italy
Brit	Britzel
Dan	Daniel, Argentina
Danix	Danix111, Poland
DJPr	DJpeter via Radioscanner/Priyom
DK8OK	DK8OK Nils Schiffhaur, D
DM0551	Dave moonlight0551, Sydney, Australia
DN	David Nobre, Brazil
DSch	Don Schimmel, USA
EW	Eddy Waters, Australia
F5JBR	F5JBR André, France
Faux	Faux
GH	Greg Hajek, ILL, USA
GHn	Gary Hagermann, UK
HFD	Hans-Friedrich Dumrese, Germany
IARUMS	IARU Monitoring Service
JI	John Ivanovich
JPL	JPL, Ontario, Canada
JPL-FNL	JPL via remote rx Finland
JPL-Sib	JPL via remote rx Siberia
JU	Jay Updike, W. Europe
KC2TTK	KC2TTK, NY, USA
Lan	Landolpho
LG2	Les G, UK
linkz	Linkz, S.E. France
MCO	Mike Chace-Ortiz, PA, USA
MPJ	Jim, SW England
N1BHH	Clyde N1BHH, MA, USA
N2UHC	N2UHC
Nico	Nico, near Paris, France
PH	Paul H, UK
PPA	Peter Poelstra, Netherlands
PUK	Peter, UK (via Enigma 2000)
RP-MD	Ron, MD, USA
SFNY	Shawn, Flushing, NY, USA
SP1	Sylvain, France
steve	Steve
Tom	Tom, Lincs, UK
Topol	Tony, UK
VL	Vincent Lecler, France
WP3	Wolfgang Palmberger

APPENDIX

I received the following call for help. This info and the spreadsheet can found on the UDXF and N&O website. Your logs are very welcome. You can post them to UDXF.

X06 (Mazielka) parameters, definitions and patterns

1. Tone values:

1	840hz
2	870hz
3	900hz
4	930hz
5	970hz
6	1015hz

2. "Test" definitions:

X06a	Alternating two tones e.g. 121212
X06b	Audibly less than two tones, where a tone is sequentially repeated 2 or 3 times giving an audible single longer Tone e.g. 122433
X06c	6 tone rising scale e.g. 123456
X06a variant	Any others

3. "Alert" definitions

1. A signal with same tone sequence occurring within 30 minutes of the Primary and where the second frequency is a repeat of the Primary.

2. A signal with same tone sequence occurring within 30 minutes of the Primary and where a Secondary frequency is used which is different to the Primary.
3. A signal with same tone sequence occurring within 30 minutes of the Primary and where Secondary and Tertiary frequencies are used and which are different to the Primary.
4. A signal with same tone sequence occurring within 30 minutes of the Primary and where Secondary, Tertiary and Quaternary frequencies are used and which are different to the Primary.
5. A signal with same tone sequence occurring within 30 minutes of the Primary and where Secondary, Tertiary, Quaternary and Quinery frequencies are used and which are different to the Primary.
6. A signal with same tone sequence occurring within 30 minutes of the Primary and where Secondary is the same as the Primary, and Tertiary is different to either the Primary or Secondary
7. Other

4. Status (These categories were established after the report on X06 Developments dated 19th June 2011
In order to recognise the various types of transmissions the major categories of signals are as follows:

Match – a transmission which matches previous transmissions using the same day, frequency, sequence and time +/- 60 minutes
Group - a transmission which matches previous transmissions using the same Day and tone sequence
Random - a transmission which exhibits no matching features

5. X06 Developments (Originally released June 2011)
It may seem that X06 reporting has been limited in the past few years but this is far from the reality. The X06 Team has been working in the background in an attempt to learn more of this series of signals.

The popularly held belief is that X06 or Mazielka is a selcall system which is used to alert stations of a forthcoming message to be sent in Crowd36 format and that the receiving station should be ready to receive a transmission. This seems an unwieldy and arcane method of communication when contemplating modern technology. However without any solid proof, it seems that we must accept this explanation for the time being until or unless a more logical alternative is found.

The reception of X06 has always been difficult because of the seemingly random pattern of transmissions in terms of both time and frequency. It was always thought that there was some kind of pattern to transmissions but a firm schedule has never been identified. A wish to pursue this possibility led to the following outline.

Objective:
The objective was to establish whether or not scheduled transmissions existed and if so to establish the basis and produce a forward schedule.

Methods and parameters:
The start-point was to examine the X06 database consisting of log entries going back to 2001 and which consisted of data sets where only a complete data set was available – date, start time, frequency and tone sequence. As a matter of record and comparison the database comprises of:

- 1738 log entries
- 98 unique tone sets from a maximum possible of 720
- 360+ unique frequencies

Year	Logs
2001	4
2002	1
2003	0
2004	4
2005	27
2006	170
2007	222
2008	405
2009	225
2010	387
2011 (to 17/6/11)	305

Fig 1- Log entries since 2001

There was already some indication that transmissions were based on a week-day pattern as follows:

First	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Second	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Third	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Fourth	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Fifth	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday

Fig 2 - Outline of Patterns

Data was tabulated into these patterns and any signals with repeat day, frequency, tone sequence and time within a 2 hour slot, were marked as possible schedules. A sample Pattern sheet is shown in Fig 3 (Note that the sample only shows part of the Excel page). The page, in this instance, shows the day selected (First Tuesday), the Tone Sequences which have occurred on that day and the frequencies and times of transmissions.

A Logging Week was organised between 21st and 28th March 2011 and was further extended until 4th April 2011. Fourteen contributors were drawn from the X06 team, plus members from Enigma2000, UDXF and Spooks groups and were located in UK, Norway, United States, Australia, Ireland, Germany and Argentina. Contributors sent in logs to the X06 Team and these were carefully logged and matched with the Patterns. These logs were invaluable in this analysis process and thanks are due to the 14 contributors who actually took the time to help.

Results:

Once the historical data had been entered there was a clear indication that schedules of sorts were in existence but that they did not cover all X06 transmissions.

During the Logging Weeks between 21st March and 4th April we recorded 58 logs of which 19 matched our potential schedules and between 5th April and 17th June a further 153 logs were recorded of which 87 matched potential schedules.

Thus we have several different sets of data:

1. 61 Tone sequences have been repeated recently to an apparent schedule
2. 22 Tone sequences exhibited random patterns
3. 13 Tone sequences with only 3 loggings or less

Note: In Fig 3 there are two entries under tone sequence 156234 at 15-16 hrs and 16-17 hrs. The entry in Red denotes a first match to the possible schedules and the entry in Blue denotes two matches to the possible schedules. However the same frequency is seen used in four time slots – is this lax operator technique or does this have some other significance? A further factor could be time changes in the sender's country.

It should be noted that the Logging Week matches only indicate 1, 2 or at the most 3 instances where tones, frequency, day and time have matched in each tone sequence – It will take several months of logging to confirm a full regular schedule in each case.

Also as logging records increase, particularly when we can record "Not heard", accuracy will improve.

Frequency in black - Predicted
Frequency in red - One match
Frequency in blue - Two matches
Frequency in green - Three matches

Main data Base | Frequency lists | Analysis Sheets | HF Sigint site | Email Group

Transmission Patterns

	First							Second							Third						
	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun
Tone sequence	00:00 to 01:00	01:00 to 02:00	02:00 to 03:00	03:00 to 04:00	04:00 to 05:00	05:00 to 06:00	06:00 to 07:00	07:00 to 08:00	08:00 to 09:00	09:00 to 10:00	10:00 to 11:00	11:00 to 12:01	12:00 to 13:00	13:00 to 14:00	14:00 to 15:00	15:00 to 16:00	16:00 to 17:00	17:00 to 18:00	18:00 to 19:00	19:00 to 20:00	
123456											13872										
126354											14970										
131313														8300							
154263									12149 13401	12149 13401											
154632												4765							6958 9145		
156234											14871 16025		16025	14970	14871	14871	14871				
164532							10193	13506						11411 13506							
165324		6960								7411											
131313														8300							
165423									9450 11462 12157	9450											
213546											11438 12168	10283									

Fig 3 Sample Pattern Sheet

Patterns for each "Network" or tone sequence based on current logs are:

	1st	2nd	3rd	4th	5th	Total
Monday	2	2	1	1	0	6
Tuesday	2	3	2	1	0	8
Wednesday	5	4	3	3	2	17
Thursday	2	5	3	2	0	12
Friday	7	4	4	1	0	16
Saturday	0	0	1	0	0	1
Sunday	0	1	0	0	0	1
Total	18	19	14	8	2	61

Conclusions:

We can now say that there are schedules which can help us improve our knowledge of this series of signals and these will make logging a lot easier. Unfortunately there is still a degree of uncertainty in the signals in that operators do not seem to strictly observe time slots as, for example, in the XPA series, and there seems also to be a secondary or back-up frequency which is sometimes used without any apparent pattern. It may be that "primary" and "secondary" frequencies have some relevance to time slots, but without more in depth logging this feature could not be fully identified.

Clearly some of the Tone Sequences shown on the Patterns page are redundant.

Another factor which should be considered is that of sender and receiver. It seems that the X06 transmissions do not all emanate from the same source and the "Alert" series which we suggested some months ago maybe an indication of "sender" and "receiver"

The only way we can improve our knowledge of X06 is to recruit more support in terms of loggers. Since January this year we have received 305 logs from 15 loggers but 76% of the logs were made by 3 loggers! We need help and would welcome any interested parties to the X06TEAM

Any comments on this article would be welcomed by the X06 Team.

If you would like to join us and receive full details of the X06 schedules and other supporting data. Please mail Jochen or Peter at:
Jochen.Schupper@gmx.de or peter@bmsona.co.uk

Notes on X06 Transmission Patterns Spreadsheet

The following may help with the use of the X06 Patterns files.

This spreadsheet has been created with Microsoft Excel 2003 and will convert to later versions. The data used is from a database comprising of transmissions logged since January 2001.

The file consists of 35 pages, each page representing 1 day.

Each page is hyper linked to other pages and hyperlinks are identified by an orange coloured font.

Row 1 is the title row.
Row 2 indicates the week number.
Row 3 indicates the week day.
Row 4 indicates the time slot.
Row 5 and beyond shows the frequency of transmission for each tone sequence.

Note: Black frequencies are those of Random, Group or Match types logged since March 2010 and Red frequencies those logged since 1st July 2013. Note that not all Random calls ave been included.

The file is unlocked so additional entries can be made to suit individual needs.

Relevant mailing lists:

Utility DXers Forum (utility and spooks related logs)
To become a member go to http://groups.yahoo.com/group/udxf/ and follow the instructions.
Website: http://www.udxf.nl

Spooks (spooks related info and logs)
Go to the web interface http://mailman.qth.net/mailman/listinfo/spooks to subscribe. Fill in the form and follow the instructions that will be mailed to you.

HF Underground (radio related including numbers stations)
Forum: http://www.hfunderground.com/board/