

678	27364	92836	89428	61268	74982	36498	32764	81276	81276
986	40932	70987	32123	49817	26346	81287	65491	87364	81276
721	75654	55656	12737	72727	72727	91918	63473	67867	76543
723	87629	37677	32612	53498	71296	28756	18276	98716	87654
7269	76329	74698	76857	98670	27601	56701	57601	73648	15432
591	87364	87265	96710	27630	12673	84769	28743	98127	54321
58	63298	75698	27465	87326	49876	28376	81273	98615	62345
667	87432	74328	78674	29867	32867	67867	86786	43286	43286
667	68768	68763	34234	34238	68768	62342	48273	48768	23456
936	98432	32432	86743	43286	43286	43286	43286	43286	43286
743	86743	86743	39867	32867	86743	43286	43286	43243	86743
741	86743	86743	86743	86743	86743	86743	86743	86743	43567
543	98798	98754	98754	98754	98754	29867	67543	67986	86743
876	87698	69876	87698	69876	87612	12341	34867	86798	63210
867	43298	65656	56756	56123	32143	14321	32143	14321	32143
81	82787	58765	76587	58765	76587	58765	76587	58756	76587
75876	76587	58765	76587	58765	76587	58765	76587	58756	76587

Numbers & Oddities

a.k.a. The Spooks Newsletter

Edition #202, July 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 UNDERGROUND <http://www.hfunderground.com/board/>

It is with great sadness that I have to inform you that my good friend Fritz Nusser passed away on 22 July. Fritz contributed to UDXF and N&O for many years.

Just before I finished N&O I received more sad news. Glenn Valenta (K0BO), known as Vambo on the IRC channel #wunclub and the man behind the NSA log bot on #wunclub, passed away in the last week of July.

Both will be greatly missed. R.I.P. gentlemen and thanks for your support !!

Welcome to yet another edition of Numbers & Oddities.

I had to start this edition with sad news. Two of our hobby friends passed away as did many other people who were in the MH17 and two other planes that crashed and also in the many parts of the world where war is going on. I know that several UDXF members and readers of N&O have lost their dear ones because of these events. I sympathize with all of you.

In this issue I Cuban/Russian news and again some cold war items and of course many logs submitted by a number of contributors. Especially thanks to JPL, Danix and von Ansbach. Thanks to all contributors for your continuing support !!

Cuba Agrees to Return Lourdes Intelligence Center to Russia

Sources: Ria Novosti and Kommersant July 16th, 2014

<http://en.ria.ru/world/20140716/190957070/Cuba-Agrees-to-Return-Lourdes-Intelligence-Center-to-Russia--.html>

<http://www.kommersant.ru/doc/2525998>

Russia and Cuba have agreed on returning a Soviet intelligence facility in Lourdes near Havana to Russia for use. The USSR's largest electronic intelligence facility allowed it to control radio and telephone connections over a large territory of the "potential enemy." Moscow gave it up in 2001, satisfying a request from Washington. But the United States "did not appreciate our 'gesture of goodwill,'" one of the paper's sources said.

Trying to strengthen level of ground intelligence, Moscow began talks with Havana about taking back the facility several years ago but has become more active since the beginning of the year, the paper's sources said. The issue was resolved within months and was finalized during Russian President Vladimir Putin's visit to Cuba in July. Russia does not plan to restore the center to its previous capacity, and is still working out the details and costs of the restoration.

See also

https://en.wikipedia.org/wiki/Lourdes_SIGINT_Station

http://fas.org/irp/imint/c80_04.htm

<http://www.globalsecurity.org/intell/world/cuba/lourdes-imagery.htm>

UPI mentions on July, 17th "Russian President Vladimir Putin Thursday denied that Russia would reopen an eavesdropping facility in Cuba that has been unused since 2001. Speaking at an economic conference in Fortaleza, Brazil, Putin said Russia would "meet its defense needs without this component."

I guess that we just have to wait and see what will happen.

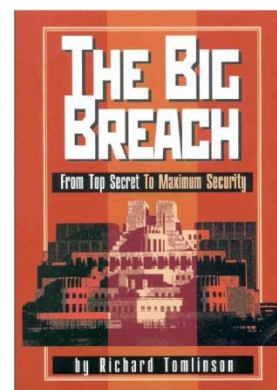
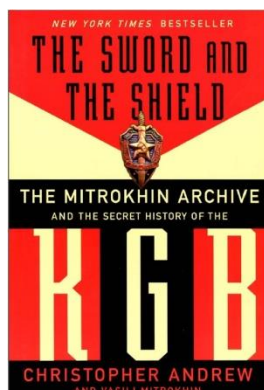
Below a Google Earth picture of the site on 12 August 2002.



I recently discovered Worldtracker <https://worldtracker.org> which hosts many interesting books, also about spying / intelligence.

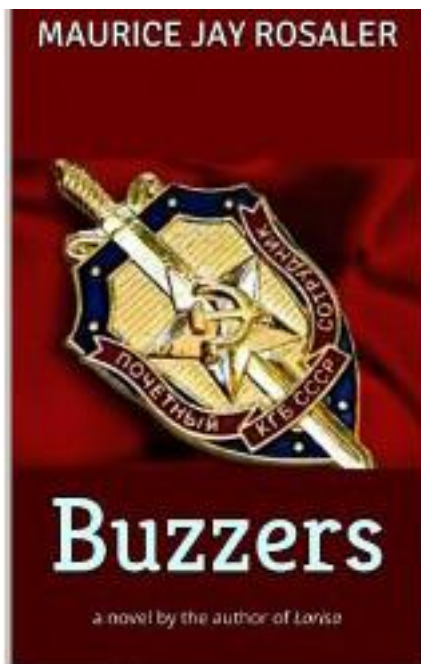
There are also many books about Military items, Communications and Cryptography online
<https://worldtracker.org/media/library/Electronics%20and%20Communications/Cryptography/>
<https://worldtracker.org/media/library/Electronics%20and%20Communications/>
<https://worldtracker.org/media/library/Military/>

I bought these books a couple of years ago and found them very interesting. They are also on Worldtracker.org



Check this out:

[Wiring Vietnam The Electronic Wall.pdf](#)
[Why the CIA Gets It Wrong and What Needs to Be Done to Get It Right.pdf](#)
[The Sword And The Shield. The Mitrokhin Archive And The Secret History Of The KGB-OCR.pdf](#)
[The Master of Disguise.pdf](#)
[The Agency And The Hill The CIA's Relationship With Congress 1946-2004.pdf](#)
[Spymaster \(Oleg Kalugin\).pdf](#)
[Spy Wars.pdf](#)
[Spy the Lie Former CIA Officers Teach You How to Detect Deception.epub](#)
[Spy Capitalism Itek and the CIA.pdf](#)
[Spies The Secret Agents Who Changed the Course of History.pdf](#)
[Spies Inc..pdf](#)
[Seduced by Secrets Inside the Stasi's Spy-Tech World.pdf](#)
[Robert Wallace - Spycraft.pdf](#)
[Legacy of Ashes - The History of the CIA.pdf](#)
[Historical Dictionary of United States Intelligence.pdf](#)
[Historical Dictionary of Middle Eastern Intelligence.pdf](#)
[Historical Dictionary of Israeli Intelligence.pdf](#)
[Historical Dictionary of International Intelligence.pdf](#)
[Ganser NATO's secret armies - operation gladio and terrorism in western europe.pdf](#)
[Espionage A Reference Handbook.pdf](#)
[Encyclopedia of the Central Intelligence Agency.pdf](#)
[Early Cold War Spies.pdf](#)
[CIA Deception Research Program No. 9/](#)
[Big Breach From Top Secret To Maximum Security, 1st Edition, 2001-01 .pdf](#)
[Analytic culture report.pdf](#)



At the time of writing Maurice Rosaler's novel "BUZZERS" is available free of charges as Kindle book at Amazon

http://www.amazon.com/Buzzers-The-UVB-76-Archives-Book-ebook/dp/B00EDSPW6W/ref=cm_cr_pr_product_top

You can read it in the Kindle Cloud Reader or download it to your Kindle PC Reader.

"Buzzers" is an edge of your seat thriller spanning thirty years of undercover espionage alternating between the former Soviet Union and modern day America.



Next in the Cold War radio related documents series are two non-classified docs of the former DDR NVA (Nationale Volksarmee). We know the NVA as owner of numbers station G03 – The Gong station. The docs were supplied by Andy. Thanks OM !!!

The first one shows all the vehicles, rockets, etc. in the ceremonial parade.

The second one is called “Parolen- und Gespräch tabelle des diensthabenden funkers” which includes Q-codes and phrases for radio operators.



Parolen- und Gesprächstabelle

des diensthabenden Funkers

SERIE „C“

NVA - Na 81-61 - Ag 117/61 DDR - 217

Gehen Sie über auf Zahlen	Sie arbeiten mit falschen Rufzeichen, überprüfen Sie.	Übung (Üb.)	Können Ihnen nicht antworten, da Geräte besetzt waren	Fu.St. empfängt Sie auf kHz (verinb. Nr.)	Bereit sein zum Empfang ohne Bereiterklärung	In der Bewegung kann ich nur empfangen	Arbeiten Sie (ich arbeite) mit Fototelegrafie	Zum Funkgespräch (Tonzahl)	Luft (L.)
Übermitteln Sie d. Fu.St. daß ich Sie auf kHz empfangen (verinb. Nr.)	Lesen Sie d. Signal (Gehen Sie über auf Signal)	21	Sende f. Sie gleichzeitig auf d. Frequenzen kHz (verinb. Nr.)	41	51	61	71	81	91
Arbeiten Sie (ich arbeite) mit Horizontalantenne	Übermitteln Sie d. Fu.St. daß ich Sie auf kHz empfangen (verinb. Nr.)	22	Arbeiten Sie (ich arbeite) ohne Rufzeichen	42	52	62	72	82	92
Empfangen Sie in den ersten Minuten jeder Stunde	Arbeiten Sie (ich arbeite) mit der vertikalen Antenne	23	Gehen Sie auf Nachfrequenz kHz (verinb. Nr.)	43	53	63	73	83	93
Arbeiten Sie (ich arbeite) mit Raumstrahlantenne	Arbeitszeiten meiner Fu.St. von ... bis ...	24	Gehen Sie über auf Dreck, auf Fu./Fi-Kanal wird Verkehr beendet	44	54	64	74	84	94
Ich rufe Sie über Fu.St. Ihre Zeichen empfangen ich nicht	Arbeiten Sie (ich arbeite) mit Dipolantenne	25	Ich habe Sie empfangen u. antworten um ... Uhr	45	55	65	75	85	95
Ihr Sender ist auf der Frequenz kHz (verinb. Nr.) nicht zu hören	Fu. Fa. Vackuhr, ob ... Uhr	26	Ich trete aus Funkbeteiligung (melde ich zurück)	46	56	66	76	86	96
Warum beantworten Sie von ... bis ... Uhr meine Anrufe nicht	Geben Sie Parole	27	Ich gebe Parole	47	57	67	77	87	97
Ich gebe Parole	Übung (Üb.)	28	Empfangen Sie im Spezialgerät auf Frequenz kHz (verinb. Nr.)	48	58	68	78	88	98
Arbeiten Sie (ich arbeite) mit Hz Frequenzhub	Arbeiten Sie (ich arbeite) mit 2-Kanalbetrieb Hz Frequenzhub	29	Schalt. Sie im Spezialgerät auf Frequenz kHz (verinb. Nr.)	49	59	69	79	89	99
Arbeiten Sie (ich arbeite) mit Hz Frequenzhub	Arbeiten Sie (ich arbeite) mit dem Gerät „Almos“	30	Ihr Gerät ist nicht in Ordnung, prüfen Sie im Kurzschlußbetrieb	50	60	70	80	90	0

Na 81 Ag 117/1/62 - 650/2313

Verkehrsabkürzungen

QAT	Vor dem Senden mithören! Sie arbeiten gleichzeitig mit der Funkstelle ... (Rufzeichen)
QCW	Antworten Sie genau auf der Frequenz meines Senders
QDA?	Können Sie an ... (Rufzeichen) übermitteln?
QLK	Antworten Sie schneller
QLM	Empfänger ausgefallen
QLN	Geben Sie Quittung für Funkspruch Nummer ... über Draht
QLO	Geben Sie Quittung für Funkspruch Nummer ... über UKW
QLP	Erhöhen Sie Sendefrequenz um ... kHz
QLR	Vermindern Sie Sendefrequenz um ... kHz
QRM	Ich werde gestört
QRO	Erhöhen Sie Sendeleistung
QRP	Vermindern Sie Sendeleistung
QRQ	Geben Sie schneller ... (Gruppen pro Minute)
QRS	Geben Sie langsamer ... (Gruppen pro Minute)
QRZ?	Von wem werde ich gerufen?
QSG?	Kann ich ... Funksprüche hintereinander geben?
QSO?	Können Sie mit ... (Rufzeichen) Verbindung aufnehmen?
QWP	Senden einstellen und Anweisung der Hauptfunkstelle durchführen
QXX	Funker auswechseln
QYW	Helfen Sie mir bei der Aufnahme der Verbindung mit ... (Rufzeichen)

VOICE STATIONS



E06

15935 kHz, 03-07, 0500 UTC

679 358 102

28563 80012 24696 15948 97946 73004 83594 36037 35558 44068

87838 71307 29331 35878 40807 01744 89476 76317 41077 91010

63197 20811 37814 20165 06924 82247 24149 73294 08256 09441

73231 36532 74799 00065 46648 58898 32086 58996 29887 48378

97757 38004 74547 01707 24219 17729 51966 91277 26920 17880

47969 57611 40480 46592 53411 80841 69831 24889 30213 29628

28567 47168 57570 10960 81680 63670 88026 69265 34893 95851

68095 08290 37750 20608 03128 34143 92667 84278 71091 43002

87134 32383 14981 01856 91234 66003 68512 95771 87698 60781

94819 40092 26657 26 2 42814 428 stops

679 679 679 rptd

73746 50919 33003 33555 56997 358 358 102 102 00000

Ends at 0522 UTC

Buzzing transmitter at 0523 UTC

17430 kHz, 03-07, 0600 UTC

17430 kHz, 18-07, 0600 UTC

679 358 102

28563 80012 24696 15948 97946 73004 83594 36037 35558 44068
87838 71307 29331 35878 40807 01744 89476 76317 41077 91010
63197 20811 37814 20165 06924 82247 24149 73294 08256 09441
73231 36532 74799 00065 46648 58898 32086 58996 29887 48378
97757 38004 74547 01707 24219 17729 51966 91277 26920 17880
47969 57611 40480 46592 53411 80841 69831 24889 30213 29628
28567 47168 57570 10960 81680 63670 88026 69265 34893 95851
68095 08290 37750 20608 03128 34143 92667 84278 71091 43002
87134 32383 14981 01856 91234 66003 68512 95771 87698 60781
94819 40092 26657 09432 42814 81018 22289 73746 50919 33003
33555 56997
358 102 00000

5948 kHz, 03-07, 2030 UTC, note the double group

724 013 20

14259 22676 **32782 32782** 76723 89409 12215 74326 64070 90235
38085 59543 12319 74238 36664 12256 18841 73311 98089 12250
013 20 00000

12207 kHz, 09-07, 1130 UTC

509 716 83

02482 39597 07194 85792 13925 68402 06807 13834 69249 06242
23265 10414 51214 08760 32192 50494 84524 43852 94304 80319
27529 16043 28065 34869 15657 32713 72923 96287 15172 87521
73973 06052 86821 25303 54686 14386 16271 65020 42321 06304
87053 87319 21094 04854 78352 62897 92090 49208 97060 48614
39726 46496 50972 90296 97928 39257 70364 16318 63605 07240
29325 59707 74519 79597 23168 49836 73647 02124 01871 63837
37302 87239 92783 91472 84562 04982 03704 82023 93064 87137
92670 76862 91517
716 83 00000

5948 kHz, 03-07, 2030 UTC

724 013 20

14259 22676 32782 32782 76723 89409 12215 74326 64070 90235
38085 59543 12319 74238 36664 12256 18841 73311 98089 12250
013 20 00000

5731 kHz, 04-07, 2130 UTC

315 274 20

37839 35787 98273 60187 16202 95625 31691 52538 61025 22567
93296 67423 40968 16891 63781 34820 04842 60491 75924 04594
274 20 00000

12207 kHz, 09-07, 1130 UTC

9075 kHz, 09-07, 1600 UTC

509 716 83

02482 39597 07194 85792 13925 68402 06807 13834 69249 06242
23265 10414 51214 08760 32192 50494 84524 43852 94304 80319
27529 16043 28065 34869 15657 32713 72923 96287 15172 87521
73973 06052 86821 25303 54686 14386 16271 65020 42321 06304
87053 87319 21094 04854 78352 62897 92090 49208 97060 48614
39726 46496 50972 90296 97928 39257 70364 16318 63605 07240
29325 59707 74519 79597 23168 49836 73647 02124 01871 63837
37302 87239 92783 91472 84562 04982 03704 82023 93064 87137
92670 76862 91517
716 83 00000

15935/17430 kHz, 03-07/04-07/17-07/18-07, 0500/0600 UTC

679 358 102

28563 80012 24696 15948 97946 73004 83594 36037 35558 44068
87838 71307 29331 35878 40807 01744 89476 76317 41077 91010
63197 20811 37814 20165 06924 82247 24149 73294 08256 09441
73231 36532 74799 00065 46648 58898 32086 58996 29887 48378
97757 38004 74547 01707 24219 17729 51966 91277 26920 17880
47969 57611 40480 46592 53411 80841 69831 24889 30213 29628
28567 47168 57570 10960 81680 63670 88026 69265 34893 95851
68095 08290 37750 20608 03128 34143 92667 84278 71091 43002
87134 32383 14981 01856 91234 66003 68512 95771 87698 60781
94819 40092 26657 09432 42814 81018 22289 73746 50919 33003
33555 56997
358 102 00000

8095 kHz, 31-07, 1900 UTC

975 248 51

62986 97094 05704 65872 80410 60180 67872 19405 17029 08218
10786 38101 78925 52120 12679 47821 61579 98732 80162 30951
32830 27391 70578 73671 80638 59764 98260 50159 98586 18676
98735 34280 90828 96190 29752 24724 27308 08201 17163 37254
85826 52806 50872 95051 48384 25296 49754 86218 86154 14659
86282
248 51 00000



E07/07a

8173/6923/5773 kHz, 09-07, 2000/2020/2040 UTC

147 1 69996 659 91

31232 70738 92629 40273 60733 85785 76152 98385 36606 90513
48319 49508 15596 07948 09473 72635 88947 35759 05863 16034
48149 40137 48270 69081 67193 11779 90116 20379 52579 52842
18196 04501 08114 65941 98219 41060 04943 66232 07215 48886
41633 79016 05016 75270 80522 99789 60044 01025 59850 69960
45146 83608 31734 93867 84051 59474 73787 59284 32154 55869
09458 88784 73904 63890 10053 42901 34600 11115 83105 89654
12776 15254 91631 07342 89212 76174 47745 70847 37749 12003
64583 22066 30963 02693 83653 18814 06821 07429 69423 37775
66325
000 000

7437 kHz, 10-07, 0430 UTC

411 1 69996 659 91

31232 70738 92629 40273 60733 85785 76152 98385 36606 90513
48319 49508 15596 07948 09473 72635 88947 35759 05863 16034
48149 40137 48270 69081 67193 11779 90116 20379 52579 52842
18196 04501 08114 65941 98219 41060 04943 66232 07215 48886
41633 79016 05016 75270 80522 99789 60044 01025 59850 69960
45146 83608 31734 93867 84051 59474 73787 59284 32154 55869
09458 88784 73904 63890 10053 42901 34600 11115 83105 89654
12776 15254 91631 07342 89212 76174 47745 70847 37749 12003
64583 22066 30963 02693 83653 18814 06821 07429 69423 37775
66325
000 000

8173 kHz, 23-07, 2000 UTC

147 1 19097 1342 79
49682 90044 97253 68629 34494 15735 65100 53040 12018 60720
07040 54980 75393 79692 95880 80197 34819 24790 94008 00901
68961 33707 82265 15938 71122 04555 64676 61726 91805 42869
30224 23890 26323 05570 06852 21533 72860 53742 24444 34588
15837 99350 36264 23586 97094 85581 52571 06323 31309 94619
97133 57390 59097 12710 87947 52506 19697 67844 74513 43571
34833 44383 96110 92344 51073 66735 06895 28570 27621 47520
40705 10321 08359 07160 16921 47337 72075 33036 32062
000 000

13412 kHz, 28-07, 1920 UTC

845 1 483 38 02172 68065 32371 87955 60546 60870 38083
66030 38231 48138 65780 71118 90691 17367 99487 89839
76518 09635 67255 34370 96678 02812 52413 27556 71220
68350 27554 55021 98158 91008 98360 33991 05985 88286
63206 63470 49929 96760
000 000



E11/ E11a

13424 kHz, 01-07, 0645 UTC / 13424 kHz, 03-07, 0645 UTC

519/33 Attention
33867 09340 13936 12685 33483 62966 34498 61511 59407 49700
43866 09237 43238 35195 37242 69490 32203 52288 00828 97904
41319 34657 46760 06643 57640 66643 17084 44738 57522 22375
65358 53807 37433
Attention, rpt msg, out

14769kHz, 01-07, 0530 UTC

980/10 Attention
52485 77597 11928 00444 31282 91051 20456 53418 07871 07867
Attention, rpt msg, out

14518 kHz, 01-07, 1810 UTC

982/10 Attention
49830 34535 53561 79931 78228 72754 15889 65365 76777 42869
Attention, rpt msg, out.

9610 kHz, 01-07, 1045 UTC / 9610 kHz, 02-07, 1045 UTC

469/32 Attention
23589 03264 04435 80809 94548 53737 05278 14774 25241 89570
76009 70662 89186 82832 09005 86163 72686 03441 76997 55011
06908 24825 64182 18114 06670 21294 40087 53497 89704 73677
54442 90711
Attention, rpt msg, out

13908 kHz, 01-07, 1300 UTC / 13908 kHz, 02-07, 1300 UTC

138/36 Attention
63567 25565 64586 13412 76475 31676 81314 80774 32856 38590
79392 36881 56834 09556 98772 28407 62221 99947 88393 11543
29286 94927 08663 77371 87992 47616 33188 84918 45904 30490
66747 22188 04069 38913 00868 30033
Attention, rpt msg, out

14865 kHz, 05-07, 1705 UTC / 14865 kHz, 17-07, 1705 UTC

395/33 Attention

51876 27705 68702 42755 61480 71454 39438 86406 68934 53878
21807 24699 97580 60155 46282 07442 68278 73441 54093 96971
43966 09681 48518 94833 93829 57109 92232 79099 58338 59921
07566 99344 22382

Attention, rpt msg, out

14769 kHz, 05-07, 0530 UTC

988/10 Attention

44157 11528 59207 19398 59662 16306 44198 78877 80262 38748

Attention, rpt msg, out

10487 kHz, 04-07, 1710 UTC

953/21 Attention

22173 82964 26304 04564 27880 32307 99058 35495 20928 23549
53409 05478 05090 73500 85408 33821 70969 17031 59033 03546
60602

Attention, rpt msg, out

14518 kHz, 05-07, 1810 UTC

986/10 Attention

40689 31352 17844 94177 19308 07522 52045 90765 44239 25916

Attention, rpt msg, out

16388 kHz, 07-07, 1110 UTC

956/40 Attention

55049 01574 97086 83711 74095 01029 81419 45802 37878 43122
14604 54257 30165 31075 08112 25305 88640 62319 48781 98828
84498 89154 75297 33105 85479 75495 29596 96961 88556 61671
96365 36208 54032 67557 79228 81256 51592 88656 16121 24156

Attention, rpt msg, out

10487 kHz, 07-07, 1710 UTC

953/30 Attention

95902 61520 41043 53265 83336 39514 75385 44044 42912 82412
36475 62307 34210 12659 00479 85662 56850 90265 03076 28138
80918 43309 50232 50977 55391 44392 89705 34772 88812 43441

Attention, rpt msg, out

16335 kHz, 07-07, 1540 UTC / 16335 kHz, 13-07, 1540 UTC

229/36 Attention

23085 88961 28327 98744 83197 30845 49812 78044 49036 47322
09924 23681 13308 44723 33731 91966 33446 69457 61250 46577
47192 12499 07935 43504 11188 87444 03696 51808 23309 97616
16644 88321 78825 80973 01951 17316

Attention, rpt msg, out

10800 kHz, 07-07, 0450 UTC / 10800 kHz, 10-07, 0450 UTC

412/32 Attention

66391 71201 74664 97148 97831 49219 76487 58110 02790 96719
69319 07153 57176 10150 99411 87281 84104 47594 70762 45239
89502 18849 80927 35555 23084 94871 57447 20209 31466 27944
53721 33196

Attention, rpt msg, out

13722 kHz, 08-07, 1400 UTC

981/10 Attention

52465 52847 56686 34660 53977 15195 87010 24093 84790 73826

Attention, rpt msg, out

14518 kHz, 08-07, 1810 UTC

982/10 Attention

13319 29458 12719 38989 60459 39624 92997 64618 98422 82658

Attention, rpt msg, out

14769 kHz, 08-07, 0530 UTC

980/10 Attention

37067 73595 43247 40021 46519 37382 64840 54864 74298 71722

Attention, rpt msg, out

13873 kHz, 08-07, 1045 UTC

E11a - 11 July 2014 - 20:00 - 8530 USB - 575/30

575/30 Attention

33558 47197 99218 01037 64771 99247 35315 02701 72891 75819

10413 23486 31811 94433 61057 74901 63793 35702 88985 96236

04353 08195 25414 22232 99638 36411 08386 31771 66346 50260

Attention, rpt msg, out

16335 kHz, 09-07, 1155 UTC / 16335 kHz, 10-07, 1155 UTC

716/37 Attention

03646 70477 06303 79527 73659 14170 48528 96658 08254 45960

21628 81048 46649 24103 19573 09096 28229 94866 48149 80704

69398 95761 06098 07641 19974 25779 55080 28396 14427 87823

58743 68368 35858 13019 08427 71588 57267

Attention, rpt msg, out

16388 kHz, 11-07, 1110 UTC

952/31 Attention

20887 98902 14785 81578 82998 00544 50274 46022 64910 83353

78574 24322 48798 78726 75097 96960 96493 13848 44524 05358

????? 05475 55608 24307 25177 21071 45386 00107 62319 09462

69685

Attention, rpt msg, out

10487 kHz, 11-07, 1710 UTC

953/23 Attention

56395 36765 12412 28588 64510 31642 76402 53046 49343 99250

74764 02375 36219 39262 66698 95676 49510 13908 96278 99866

24435 53226 14933

Attention, rpt msg, out

14769 kHz, 12-07, 0530 UTC

986/10 Attention

17734 47217 63114 05826 88160 10914 57107 83651 40983 05735

Attention, rpt msg, out

13722 kHz, 12-07, 1400 UTC

980/10 Attention

52485 77597 11928 00444 31282 91051 20456 53418 07871 07867

Attention, rpt msg, out

14518 kHz, 12-07, 1810 UTC

981/10 Attention

63252 28192 17599 61768 81435 07639 06952 39934 59163 34442

Attention, rpt msg, out

16388 kHz, 14-07, 1110 UTC

952/40 Attention

74025 77951 62751 89640 30041 89298 65388 69142 83989 06710
33614 31604 23014 42137 90699 54020 97029 57298 24223 65509
20505 02969 97863 96890 32799 35866 48358 07408 04954 04182
19853 13263 88759 50517 81016 39838 11560 33048 71849 77201

Attention, rpt msg, out

10487 kHz, 14-07, 1710 UTC

957/30 Attention

85102 07606 01815 52904 75719 38434 07502 15082 61084 91185
33884 92952 00900 69182 65395 84886 35701 25918 04399 13838
16211 10420 36695 34585 52034 00724 57480 35692 10980 37593

Attention, rpt msg, out

8725 kHz, 14-07, 0820 UTC / 8725 kHz, 17-07, 0820 UTC

436/38 Attention

83881 98269 01594 23808 91551 94133 15116 55066 12374 94514
49179 65645 80788 40562 71873 85489 38694 63050 48557 68516
91307 83531 14936 42782 01815 09249 22112 28876 86562 05463
90343 93314 58832 30556 70129 96629 47857 63617

Attention, rpt msg, out

14769 kHz, 15-07, 0530 UTC

986/10 Attention

01013 59410 45664 78727 85399 28160 05153 62326 27648 36462

Attention, rpt msg, out

13722 kHz, 15-07, 1400 UTC

981/10 Attention

30953 71096 36204 59478 21806 97695 58767 23921 62856 39588

Attention, rpt msg, out

10213 kHz, 16-07, 0930 UTC

270/00, turned into white noise at 0931 UTC. E11's clean audio suddenly became white noise, with the same waveform as "270/00". It was wider than the E11 audio, too. It remained like that for the rest of the broadcast. It sounds like their audio cable got loose. Recorded by Danix: <http://priyom.org/media/117369/e11-10213usb-20140716-0930z-null-maciejwins-bydanix.ogg>

10487 kHz, 18-07, 1710 UTC

953/21 Attention

22173 82964 26304 04564 27880 32307 99058 35495 20928 23549
53409 05478 05090 73500 85408 33821 70969 17031 59033 03546
60602

Attention, rpt msg, out

9130 kHz, 19-07, 2005 UTC

9130 kHz, 20-07, 2005 UTC

364/31 Attention

51750 73771 46622 94348 09506 34206 23123 51488 73041 63302
13378 94847 42008 61595 73310 54751 33548 98420 79327 70325
97855 31932 58930 79136 93816 26389 62931 61558 56204 22003
96302

Attention, rpt msg, out

14769 kHz, 19-07, 0530 UTC

980/10 Attention

93473 27419 26825 08679 20295 03494 19680 55227 51591 55182

Attention, rpt msg, out

13722 kHz, 19-07, 1400 UTC

981/10 Attention

99490 39745 48508 14104 92978 42127 52184 97328 33952 09283

Attention, rpt msg, out

14518 kHz, 19-07, 1810 UTC

982/10 Attention

04354 53939 14861 95745 80763 96302 06049 04866 25409 98848

Attention, msg rptd, out

9610 kHz, 21-07, 0745 UTC / 10356 kHz, 24-07, 1530 UTC

269/30 Attention

46725 82223 01397 33271 43871 18064 44385 78299 98531 17525

12473 50492 28435 75348 89641 80415 91025 14287 00106 68929

61199 87341 54529 61858 67433 66588 32921 07271 80217 81756

Attention, rpt msg, out

16388 kHz, 21-07, 1110 UTC

952/40 Attention

51534 37925 87792 84327 75040 97666 08077 91295 02762 37143

16662 83748 35876 65451 69587 37781 43666 72178 45147 38542

73167 55176 42758 28064 75026 66326 95722 06124 51413 33376

25840 71053 82113 77847 12611 94408 78615 69687 34423 01880

Attention, rpt msg, out

10487 kHz, 21-07, 1710 UTC

953/29 Attention

06428 97480 63071 70342 79853 13495 84101 71838 68360 72450

68036 41351 05481 12427 37961 20357 52187 70915 89539 82323

44818 94735 55450 81160 98443 68815 64221 24846 89578

Attention, rpt msg, out

12924 kHz, 21-07, 0830 UTC / 12924 kHz, 25-07, 0830 UTC

644/36 Attention

35392 36869 86916 27701 18685 76865 39168 38424 02684 69900

20537 53424 69353 09745 60128 11770 18125 83061 32734 95651

91548 20256 88849 60567 76010 96533 97947 75258 81552 64989

20769 69637 17843 43689 49500 83267

Attention, rpt msg, out

14769 kHz, 22-07, 0530 UTC

981/10 Attention

75715 51791 05329 34288 18500 46113 92925 60341 02600 68983

Attention, rpt msg, out

13722 kHz, 22-07, 1400 UTC

985/10 Attention

62250 51759 79029 08256 41490 61755 15197 42780 25566 14756

Attention, rpt msg, out

14518 kHz, 22-07, 1810 UTC

988/10 Attention

32893 28217 31199 03377 94926 79569 12059 09874 02590 73083

Attention, rpt msg, out

13424 kHz, 23-07, 0545 UTC

340/34 Attention

62544 36853 56073 28325 02389 56431 71591 96048 42203 16422
90488 97826 22789 12033 72240 30065 67256 84535 87944 87138
11244 40399 67720 80914 31356 19623 04049 23572 37392 88215
98142 00369 44353 02134

Attention, rpt msg, out

14975 kHz, 23-07, 0805 UTC / 14975 kHz, 27-07, 0805 UTC

371/34 Attention

54708 20927 51954 96145 23515 77458 07076 72597 35891 28035
55249 45682 27040 07041 19633 91602 64200 31255 28064 44766
34603 44090 35028 18887 95150 74001 50484 38999 30183 80916
20259 37879 81341 86641

Attention, rpt msg, out

4909 kHz, 24-07, 0900 UTC / 4909 kHz, 26-07, 0900 UTC

240/37 Attention

94308 18041 56072 25220 70627 42909 37193 84173 18708 38976
59063 48973 65696 75843 35205 10189 34830 23441 55704 86734
96687 16357 96718 26632 96897 04414 70801 10405 31958 95116
32509 55158 01394 33503 90897 17517 22852

Attention, rpt msg, out

13424 kHz, 25-07, 0545 UTC

340/34 Attention

62544 36853 56073 28325 02389 56431 71591 96048 42203 16422
90488 97826 22789 12033 72240 30065 67256 84535 87944 87138
11244 40399 67720 80914 31356 19623 04049 23572 37392 88215
98142 00369 44353 02134

Silence (no "Attention"), rpt msg

Repeat started halfway the second group with 853 56073 etc., out

10487 kHz, 25-07, 1710 UTC

953/21 Attention

01871 12066 39017 18394 87794 02219 86884 48997 54767 08874
72743 04261 10557 89563 81136 15379 64260 99754 68993 06912
85660

Attention, rpt msg, out

4909 kHz, 23-07, 1445 UTC / 4909 kHz, 26-07, 1445 UTC

288/38 Attention

79766 50102 30364 19436 59445 96228 05840 60434 63692 77008
82851 93717 27787 41979 16307 69215 03822 81511 95084 03480
70788 98682 20919 33770 13358 97303 53843 87822 34479 04941
92388 84305 19887 16618 81527 09203 94387 42902

Attention, rpt msg, out

14769 kHz, 26-07, 0530 UTC

983/10 Attention

49534 95662 01341 31503 04249 79753 78444 27992 52587 56035

Attention, rpt msg, out

14518 kHz, 26-07, 1810 UTC

985/10 Attention

77832 30512 59002 50243 37860 04173 11881 47233 84424 69167

Attention, rpt msg, out

13427 kHz, 28-07, 0900 UTC

537/30 Attention

74809 53209 75210 48279 24618 26243 86066 81179 27523 78057
78825 38440 39251 29838 17510 59633 48040 07631 93239 62504
46291 85172 90741 75626 27760 56927 63594 95451 06684 65738

Attention, rpt msg, out

14769 kHz, 29-07, 0530 UTC

980/10 Attention

23736 47824 77888 35217 10194 24154 12400 11213 90367 32187

Attention, rpt msg, out

15632 kHz, 29-07, 0745 UTC

332/30 Attention

95282 85698 91738 04008 81069 87038 63987 68639 76870 71370
91330 47107 67976 89009 23560 89326 63076 94211 15039 71334
02778 34125 46154 03356 42492 06276 79320 58731 18021 02065

Attention, rpt msg, out

16388 kHz, 28-07, 1110 UTC

952/39 Attention

78733 84418 32563 94592 60261 50834 95250 35465 58798 42770
14091 44793 22761 75147 41283 00035 14278 40210 29704 96236
82497 68344 20279 71496 40505 13762 85245 62303 67750 70786
28087 91463 99062 39207 98679 33757 26320 57873 56835

Attention, rpt msg, out

10213 kHz, 31-07, 0930 UTC

270/32 Attention

82484 93520 93803 01334 71810 58331 32256 14594 79389 86278
90824 71007 01856 17143 96001 37875 49624 24934 94630 71184
78718 11844 16833 93245 12866 53509 90172 73057 39966 06151
24726 13479

Attention, rpt msg, out



E17z

16780/12850 kHz, 03-07, 0800/0810 UTC

16780/12850 kHz, 10-07, 0800/0810 UTC

674 829 5

72663 46648 76529 01946 89891

829 5 00000

16780/12850 kHz, 17-07, 0800/0810 UTC

16780/12850 kHz, 24-07, 0800/0810 UTC

16780/12850 kHz, 31-07, 0800/0810 UTC *)

674 830 5

47665 94092 48521 63888 92060

830 5 00000

*) Note that this should have been a null message "674 674 674 00000"



G06

5943 kHz, 11-07, 1930 UTC

218 347 20

37839 35787 98273 60187 16202 95625 31691 52538 61025 22567
93296 67423 40968 16891 63781 34820 04842 60491 75924 04594
347 20 00000

6887 kHz, 24-07, 1830 UTC

842 931 20

06132 75514 79681 94217 21443 31441 81797 17512 62689 33103
48930 93432 25709 93628 48683 18809 85052 49870 63962 04884
931 20 00000



S06 / S06c / S06s

15721 kHz, 07-07, 0400 UTC, S06

480 136 50

59498 90790 72904 85794 55505 32615 77227 14458 90834 45626
18132 68463 59332 35837 84656 62694 59917 92838 74716 11711
64275 47010 74960 97158 00669 07314 43452 50942 08544 53082
62375 87495 43625 78250 52946 42583 38190 11468 69714 23479
46205 60526 16456 47155 28010 54539 50825 37314 54241 82315
00000

15721 kHz, 14-07, 0400 UTC, S06

480 731 60

42729 61303 37938 26591 55462 43995 13227 41766 31491 34812
07707 05094 39059 71263 65341 31790 23265 96455 64731 59069
27225 33651 35640 28009 92623 07795 60768 13124 81852 54946
14740 40797 88921 05574 28174 33907 31317 12714 67893 01076
40015 70273 76577 93986 89815 34477 18395 31209 37213 80916
13002 91959 57953 61644 62223 68245 01500 46121 99092 28822
731 60 00000

15721 kHz, 21-07, 0400 UTC, S06

480 261 50

81453 64904 16904 06518 07080 19450 89563 08828 10474 79529
24959 57963 02776 03368 01791 60289 55145 18414 90571 09751
19209 67349 02448 25728 85114 42097 77963 90610 38115 10498
39206 04251 99625 65349 53757 97515 63696 50503 83914 72094
64822 43693 19590 58770 38051 00791 18342 11336 57303 91177
261 50 00000

15721 kHz, 23-07, 0400 UTC, S06

480 326 55

22709 10281 00917 20322 85345 59542 48053 54825 37792 50710

93546 63057 32678 43279 94651 97676 40209 97928 76993 75453

62471 91273 29577 46084 46264 23893 63185 77904 80412 50623

80583 02684 88480 87896 31981 86686 52842 77826 54190 20194

31027 13712 16904 42666 50303 56659 24550 45744 91399 97998

47140 21262 97349 47198 78566

326 55 00000

15721 kHz, 24-07, 0400 UTC, S06

480 179 60

97799 09123 90331 84797 51497 43200 49506 28813 33290 65719

54769 42973 65858 50208 49418 97052 39566 30887 91537 91417

80914 38671 02775 44632 09369 79074 26587 28446 31010 94184

06894 04818 42428 75921 23084 44688 43319 22738 42302 33172

81203 56974 74960 90864 76711 45044 44414 65951 02879 87639

06723 76805 16871 72135 81464 09757 67602 04403 79503 01730

179 60 00000

16735 kHz, 01-07, 0600 UTC

438 950 6

16014 42676 55730 44736 95879 12345

950 6 00000

Repeat of 6 May 2014. They added the 12345 group.

16735 kHz, 06-05, 0600 UTC

438 960 5

16014 42676 55730 44736 95879

960 5 00000

Thanks for the note, Avare !!!

6780 kHz, 01-07, 0715 UTC, S06s

374 216 5

38281 10241 58010 29875 72431

216 5 00000

12852/13565 kHz, 03-07, 0900/0910 UTC, S06s

167 498 5

81726 36450 99981 30906 45638

498 5 00000

9255/10325 kHz, 03-07, 0930/0940 UTC, S06s

314 527 6

82395 58825 82037 89522 70831 89090

527 6 000000

11165/12530 kHz, 03-7, 0950/1000 UTC, S06s

635 281 7

20529 80749 03752 76367 84777 55977 48638

281 7 00000

12460/10250 kHz, 05-07, 1200/1210 UTC, S06s

254 817 6

32557 35995 44937 94502 33459 41812

817 6 00000

16320/14875 kHz, 06-07, 0630/0640 UTC, S06s

524 897 6

37655 30146 34476 91326 41043 36472

897 6 00000

7365/11655 kHz, 08-07, 0730/0740 UTC, S06s

427 810 5

61028 69130 27970 53514 58906

810 5 00000

14373/12935 kHz, 08-07, 0800/0810 UTC, S06s

352 479 6

58906 31477 91127 49572 96314 52976

479 6 00000

14580/16020 kHz, 09-07, 1000/1010 UTC, S06s

729 581 6

47304 33888 23754 97912 10870 88866

581 6 00000

11165/12530 kHz, 10-07, 0950/1000 UTC, S06s

635 281 7

20529 80749 03752 76367 84777 55977 48638

281 7 00000

13145/14535 kHz, 10-07, 1200/1210 UTC, S06s

425 967 8

96320 36793 53038 76342 15009 34140 78386 91497

967 8 00000

10290/9655 kHz, 11-07, 0930/0940 UTC

516 930 7

36113 31107 37806 37137 31405 46464 33690

930 7 00000

16380/14835 kHz, 14-07, 0900/0910 UTC, S06s

872 461 5

26634 14690 95590 60386 03009

461 5 00000

10230/12165 kHz, 14-07, 1200/1210 UTC, S06s

Note that groups 2 and 3 are the same as groups 6 and 7 on 11-07 at 0930/0940 UTC

831 249 5

31405 46464 33690 39783 32347

249 5 00000

14373/12395 kHz, 0800/0810 UTC, S06s

352 418 6

54928 33165 37858 39538 83873 44333

418 6 00000

7744 kHz, 15-07, 1510 UTC, S06s

537 829 6

37684 46080 34015 41905 55088 38421

829 6 00000

13145/14535 kHz, 17-07, 1200/1210 UTC, S06s

425 983 6

03009 81413 94043 83531 94063 63156

983 6 00000

16320/14875 kHz, 20-07, 0630/0640 UTC, S06s

524 896 7

88620 58069 61732 74537 57440 10597 23531

896 7 00000

14835 kHz, 21-07, 0910 UTC, S06s

872 439 5

80144 33956 43871 43498 34654

439 5 00000

11578 kHz, 21-07, 1640 UTC, S06c

11213

5430/6780 kHz, 22-07, 0700/0710 UTC, S06s

374 281 5

72538 01983 57574 38291 98954

281 5 00000

7365/11655 kHz, 22-07, 0730/0740 UTC, S06s

427 951 6

43169 42483 18958 37032 30440 93442

951 6 00000

6766/7744 kHz, 22-07, 1500/1510 UTC, S06s

537 829 6

37684 46080 34015 41905 55088 38421

829 6 00000

13145/14535 kHz, 24-07, 1200/1210 UTC, S06s

425 983 6

03009 81413 94043 83531 94063 63156

983 6 00000

11742/12585 kHz, 25-07, 0600/0610 UTC, S06s

934 207 5

30173 30823 86833 49338 44530

207 5 00000

7845/9125 kHz, 25-07, 0600/0610 UTC, S06s

196 420 5

81406 36889 47688 33374 45836

420 5 00000

10290/9655 kHz, 25-07, 0930/0940 UTC, S06s

516 208 7

46062 68672 97478 39685 39485 96632 52537

208 7 00000



S11a

8530 kHz, 08-07, 0915 UTC / 8530 kHz, 11-07, 0915 UTC

484/33 Vnimanie

65267 05618 99659 88304 47439 54264 22327 81974 17855 14929

28336 27733 27936 87083 41714 64775 96457 77622 54735 15046

17688 89401 98219 61220 36750 53208 79129 59112 57047 95912

11908 52505 61964

Vnimanie, rpt msg, koniec

4870 kHz, 16-07, 1955 UTC / 4870 kHz, 18-07, 1955 UTC

379/35 Vnimanie

19045 42487 30104 75911 05427 29975 18807 20659 86435 52454
62119 76975 59957 30350 21569 18646 52506 21500 41363 76407
92151 93042 57997 47732 91729 07079 89299 69083 29753 02784
24404 90324 09376 23122 11787

Vnimanie, rpt msg, konec

11581 kHz, 22-07, 1020 UTC / 11581 kHz, 25-07, 1020 UTC

427/30 Vnimanie

43645 71558 01170 46301 40549 35013 91504 22413 68521 00117
36980 19060 51446 05925 89855 11081 92047 54182 29961 64723
70954 69386 39411 72357 67863 42572 62380 51743 37149 60056

Vnimanie, rpt msg, konec

4870 kHz, 30-07, 1955 UTC

370/00 with Windows XP shutdown

Recorded by Danix <http://priyom.org/media/120261/s11a-4870usb-20140730-1955z-null-winxp-bydanix.ogg>

16530 kHz, 31-07, 1015 UTC

479/38 Vnimanie

50964 01285 51057 43151 24300 62212 93642 45201 62433 09011
47568 54933 08618 64604 36484 39165 68486 84081 96403 65259
58250 86629 02940 80559 89733 38691 73883 26763 32639 05106
38926 61920 89460 03806 11007 00750 14144 18961

Vnimanie, rpt msg, konec



S25

13883 kHz, 01-07, 0230 UTC. Voice version of M01a

104 27234 44444 25144

11111 00000 00000



S28 - The Buzzer

Mode: USB

Frequency: 4625 kHz

3-07, 1313 UTC	MDZhB 89 314 KAJNOZOJ 04 51 42 98
10-07, 0744 UTC	MDZhB 06 122 OBTOPAN 07 59 61 19
11-07, 0501 UTC	MDZhB AKVANTINTA 13 59 KOMANDA 145 Priyom (145 is a training command for military units)
13-07, 1133 UTC	MDZhB 18 517 BARIYETS 57 71 52 36
13-07, 1135 UTC	MDZhB 53 727 SIRENNYY 08 30 25 52
13-07, 1141 UTC	MDZhB 63 795 RASSEV 72 54 42 34
17-07, 1342 UTC	MDZhB 40 327 GALLIKT 39 00 70 92
20-07, 1332 UTC	MDZhB 38 274 BEREZOVAYa 57 01 09 39
20-07, 1334 UTC	MDZhB 97 672 POMAZANNIK 75 66 37 03
20-07, 1336 UTC	MDZhB 07 287 DZhaVEC 30 22 51 22
20-07, 1343 UTC	MDZhB 83 934 PILAV 25 49 23 23



S30 - The Pip

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

3756 kHz, 10-07, 1750 UTC	37PM 'O6P JH'J S7ZhG Z'1B CI9V ZhSK4 5FSShch DEAY DMC3
5448 kHz, 17-07, 0351 UTC	27Shch' N1DU 53OB 78MV 12CI 79AJ P'HShch 6EHB CP3' ShchT3O
3756 kHz, 18-07, 1735 UTC	F56Shch 9GSA ZhBZU 4RVZ 3VS' DKJ1 6I2Zh ZhD9V SJ5C 42BV
3756 kHz, 18-07, 1844 UTC	81BR M7KS PMV5 L'GJ TShchShchS VKY1 HCLF 61HZh ZBIL L7O5
5448 kHz, 20-07, 1231 UTC	8S1Shch 43 948 GOROTELIYa 33 32 96 97
5448 kHz, 20-07, 1321 UTC	8S1Shch 20 044 PODSTRUZhKA 69 12 74 11
5448 kHz, 20-07, 1327 UTC	S1Shch 21 301 DESSOSOMA 23 41 18 05



S32 - Squeaky Wheel

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

3828 kHz, 02-07, 1922 UTC	SLIVA-94 UTES-94 DZhIGIT-46 FONTAN-34 PENZA-07
5473 kHz, 09-07, 1730 UTC	DSAS PMV5 58 313 83 171 LEJKOCIT0Z 60 80 27 53
5473 kHz, 09-07, 1645 UTC	DSAS PMV5 50 659 96 137 POKOJ 12 04 59 75
5473 kHz, 09-07, 1659 UTC	DSAS PMV5 54 064 11 751 OVChARNYJ 64 47 33 14
5473 kHz, 09-07, 1714 UTC	DSAS PMV5 89 067 14 158 BENZOPIRAN 05 59 27 73
5473 kHz, 09-07, 1729 UTC	DSAS PMV5 56 789 72 162 GIDROREZhIM 07 26 17 04
3828 kHz, 09-07, 1734 UTC	DSAS PMV5 56 789 72 162 GIDROREZhIM 07 26 17 04
3828 kHz, 09-07, 1744 UTC	DSAS PMV5 74 348 90 721 SIGNALIST 24 67 30 88
3828 kHz, 09-07, 1900 UTC	KURGAN-40 RUZh'E-26 ROSA-64 NEVKA-26 OTPOR-89 BIZON-64 KOVBOJ-39 ALEUT-09 LANDYSh-74
5473 kHz, 11-07, 0502 UTC	ALFA-45 37 197 PALAMIDA 66 39 27 77
3828 kHz, 12-07, 1858 UTC	ShTORA-62 RUZh'E-26 YaHTA-94 KURGAN-40 NEVKA-26
3828 kHz, 13-07, 2040 UTC	OTPOR-89 BIZON-64 KOVBOJ-39 ALEUT-09 LANDYSh-74 NEVKA-26
3828 kHz, 14-07, 1746 UTC	PENZA-07 DUBLER-68 STAZhER-29 ShTORA-62 NEVKA-94 KURGAN-40 RUZh'E-26 ROSA-64
5473 kHz, 16-07, 1021 UTC	OTPOR-89 BIZON-64 KAVBOJ-39 ALEUT-09 LANDYSh-74
5473 kHz, 16-07, 1028 UTC	10-count
5473 kHz, 18-07, 1100 UTC	OTPOR-89 BIZON-64 KAVBOJ-39 ALEUT-09 ROSA-64
5473 kHz, 18-07, 1305 UTC	SLIVA-94 UTES-94 DZhIGIT-46 FONTAN-34 PENZA-07 STAZhER-39 DUBLER-68
5473 kHz, 19-07, 1035 UTC	KURGAN-40 NEVKA-26 OTPOR-89 BIZON-64 KOVBOJ-39 ALEUT-09 LANDYSh-74
5473 kHz, 20-07, 0700 UTC	NEVKA-26 OTPOR-89 BIZON-64 KOVBOJ-39 ALEUT-09 LANDYSh-74
5473 kHz, 20-07, 1139 UTC	ShTORA-62 YaHTA-94 KURGAN-40 RUZh'E-26 ROSA-64
5473 kHz, 20-07, 1330 UTC	ALFA-45 85 858 PODGORNYY 02 85 79 50
5473 kHz, 20-07, 1334 UTC	SLIVA-94 UTES-94 DZhIGIT-46 FONTAN-34 PENZA-07 DUBLER-68 STAZhER-29
5473 kHz, 20-07, 1345 UTC	ALFA-45 00 155 REVENNYJ 50 72 23 78



V07

13582/12182 kHz, 13-07, 0700/0720 UTC

512 1 534 74

98314 37275 78148 19123 83234 34345 42155 29271 07719 51031

01547 15995 55313 98901 59730 40205 87575 53081 94352 07745

01723 78038 20982 11371 32540 21221 93891 43774 13243 24828

34722 49384 58959 07474 11597 17849 73491 12821 22359 32075

39583 59975 53779 37498 77732 19495 91915 29387 31710 00310

77083 43327 11195 13321 79803 42224 19354 97333 74857 80181

97330 34083 79027 30189 73280 89954 57139 33394 59079 42524

44745 38324 80101 14378

000 000



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

Schedules per 1 July 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

9725 kHz 1200-1230 kHz New Star 4

9725 kHz 1300-1330 kHz New Star 4

Note: not all the skeds are always on the air



V30

Vietnamese numbers

We received the following from Token.

Below are my loggings of Vietnamese stations V30 an M97 for the period of April 16 to July 26, 2014. My last report on these stations went through April 15, something most Americans will recognize as Tax Day Wink.

In this included time period I have recorded and looked at every day with the exception of June 30, 2014, for both V30 and M97, and May 26, 2014, for M97 only. Because of my normal conditions and good in-band indicators of propagation, I believe that with the exception of those 2 days for M97 this is a complete record of all M97 transmissions made in the time period. Because of time and propagation indicators I am slightly less sure that this is a complete record of V30 transmissions, however I think it is probably a complete record, with the exception of June 30, 2014.

Of note, while V30 still generally transmits only on days when there has been a preceding M97 transmission, the station has shown an increased tendency to transmit on days when no M97 has been present. I have included a link to a chart to show relative transmission days.

Chart comparing V30 and M97 transmission days:

V30 and M97 transmission days, April 16 to July 26, 2014

Date	V30	M97
24 July, 2014	X	X
23 July, 2014	X	X
22 July, 2014	X	No TX
16 July, 2014	X	X
15 July, 2014	X	X
14 July, 2014	X	X
03 July, 2014	X	X
02 July, 2014	X	X
01 July, 2014	X	X
05 June, 2014	X	No TX
04 June, 2014	X	No TX
03 June, 2014	X	No TX
13 May, 2014	X	X
12 May, 2014	X	X
09 May, 2014	X	X
08 May, 2014	X	X
05 May, 2014	No TX	X
18 April, 2014	X	X
17 April, 2014	X	X
16 April, 2014	X	X

<http://www.pbase.com/token/image/156747916/original.jpg>

While M97 has not introduced any new messages in this time period (it is still sending the SD 85, SN 58 it introduced on August 9, 2013), V30 has had several different messages in the reported period.

V30 message headers during the reported period:

SD 07611, SN 45 (note I erroneously reported this as 03611 in the past)

SD 77, SN 48 (although the transmitted SN is 48, message is really 178 grps long)

Unknown (signal too weak to make out details, but message length changed)

SD 04211, SN 90

Recordings are available for any day reported.

T!

V30 logs, April 16 to July 26, 2014:

10255 kHz, 1558z, 24 July, 2014, (SD 04211, SN 90, message x3), Thu
 10255 kHz, 1558z, 23 July, 2014, (SD 04211, SN 90, message x3), Wed
 10255 kHz, 1558z, 22 July, 2014, (SD 04211, SN 90, message x3), Tue
 10255 kHz, 1558z, 16 July, 2014, (SD unk, too weak, msg 2:16 long, message x3), Wed
 10255 kHz, 1558z, 15 July, 2014, (SD unk, too weak, msg 2:16 long, message x3), Tue
 10255 kHz, 1558z, 14 July, 2014, (SD unk, too weak, msg 2:16 long, message x3), Mon
 10255 kHz, 1559z, 03 July, 2014, (SD unk, too weak, msg 2:16 long, message x3), Thu
 10255 kHz, 1559z, 02 July, 2014, (SD unk, too weak, msg 2:16 long, message x3), Wed
 10255 kHz, 1559z, 01 July, 2014, (SD unk, too weak, msg 2:16 long, message x3), Tue
 10255 kHz, 1559z, 05 June, 2014, (SD unk, too weak, msg 2:16 long, message x3), Thu
 10255 kHz, 1559z, 04 June, 2014, (SD unk, too weak, msg 2:16 long, message x3), Wed
 10255 kHz, 1559z, 03 June, 2014, (SD unk, too weak, msg 2:16 long, message x3), Tue
 10255 kHz, 1600z, 13 May, 2014, (SD 77, SN 48, msg 178 grps long, message x3), Tue

10255 kHz, 1600z, 12 May, 2014, (SD 77, SN 48, msg 178 grps long, message x3), Mon
10255 kHz, 1600z, 09 May, 2014, (SD 77, SN 48, msg 178 grps long, message x3), Fri
10255 kHz, 1600z, 08 May, 2014, (SD 77, SN 48, msg 178 grps long, message x3), Thu
10255 kHz, 1557z, 18 April, 2014, (SD 07611, SN 45, message x3), Fri
10255 kHz, 1557z, 17 April, 2014, (SD 07611, SN 45, message x3), Thu
10255 kHz, 1557z, 16 April, 2014, (SD 07611, SN 45, message x3), Wed



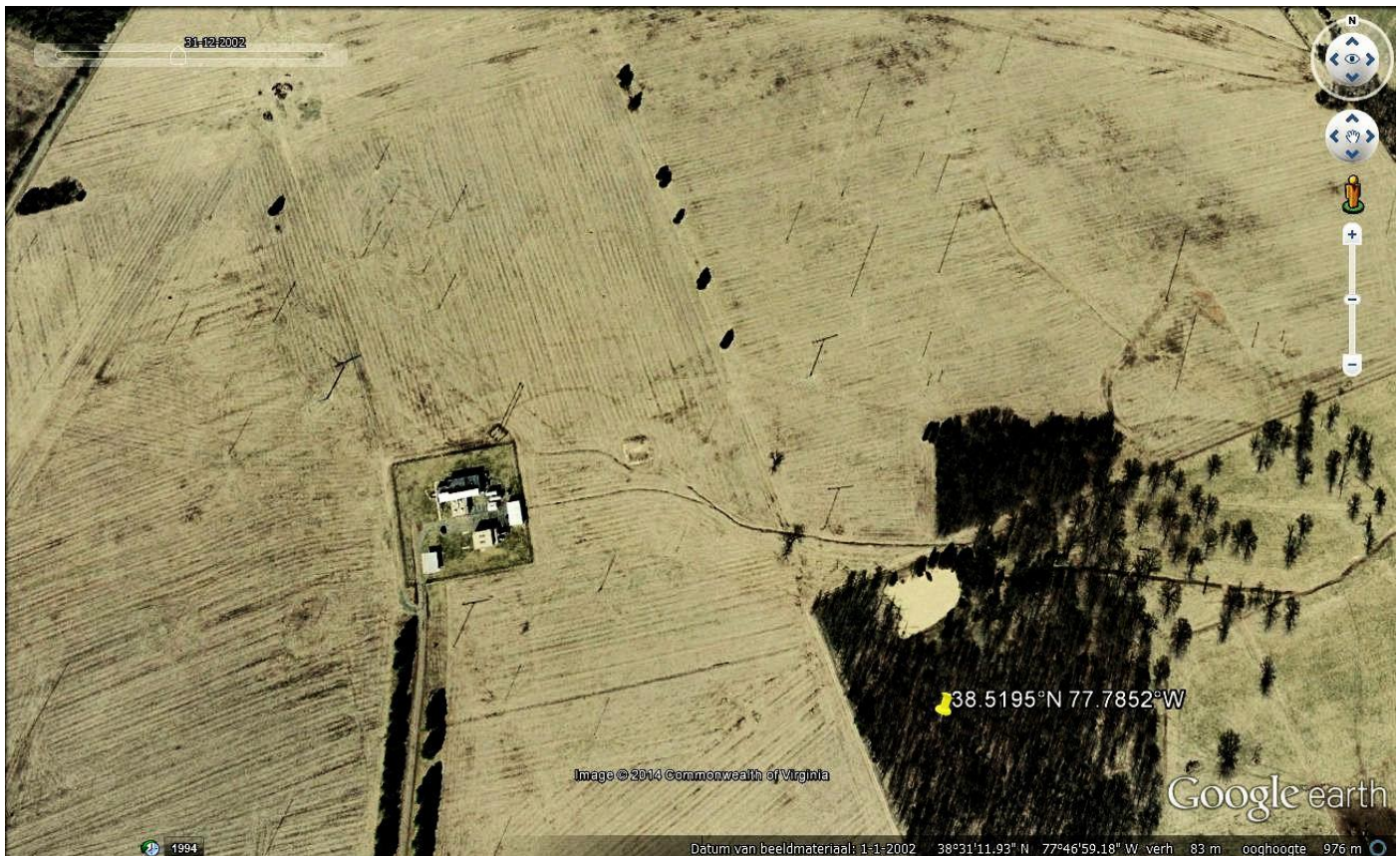
VC01 - Chinese Robot Chinese Air Defense

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.

Below a picture of the Warrenton Training Center, VA, USA, station C. The former home of E05. The picture is from 2002. Nowadays most antenna's are gone.





MX Russian Military beacons

Current cluster frequencies:

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

Other frequencies:

L 6917.5, 8497.8 kHz

V 3658, 4150, 6809, 6928, 7027.5 kHz

R 5466 kHz (seldom reported these days)

W 5835, 8112, 8162 kHz (Air Force)

Cluster beacon slots:

.7 "D", Sevastopol

.8 "P", Kaliningrad

.9 "S", Severomorsk

.0 "C", Moscow

.1 "A", Astrakhan

.2 "F", Vladivostok

.3 "K", Petropavlovsk Kamchatskiy

.4 "M", Magadan

frequency	date	UTC	
7027	24-6-2014	1953	Beacon "V"
6917.5	4-7-2014	1946	Beacon "L" St Peterburg
8497.8	19-7-2014	1726	Beacon "L" St Petersburg
8895	8-7-2014	1240	Russian Air Force Tu-95 Bear H net. W-markers
8895	12-7-2014	0620	Russian Air Force Tu-95 Bear net. W-markers
8895	21-7-2014	1800	Russian Air Force Tu-95 Bear H net. W-markers
8895	27-7-2014	1820	Russian Air Force Tu-95 Bear H net. R-markers



M01

M01: 5280 kHz, 01-07, 1800 UTC

025 764 30 ==

57045 83576 52706 38748 52127 34511 66550 66513 78082 05706

96922 15254 33809 47066 47292 98747 93800 90162 66477 25654

08203 48220 22258 53211 35135 44910 22853 06995 89432 63015

== 764 30 0 0 0

M01: 4905 kHz, 03-07, 2000 UTC

025 741 741 30 30 == ==

80711 54144 30318 11055 82885 30329 20730 77482 20435 71962

20151 75323 65520 52927 79230 18159 16458 92589 26961 88140

67704 75041 17540 16885 91306 80754 59264 42479 01770 44951

== == 741 741 30 30 000 000

M01c: 9411 kHz, 04-07, 0533 UTC

675 675 675 99379 99379

M01: 6435 kHz, 05-07, 1500 UTC

025 732 30 ==

67832 63341 34030 55166 46481 06099 86791 26777 60790 24322

67655 20108 58209 51734 90589 31250 46227 67930 97865 65098

65650 95799 88619 54412 74102 90052 79213 75311 18217 45346

== 732 30 000

M01: 6780 kHz, 06-07, 0700 UTC

025 183 30 = =
94454 35336 86345 02939 14991 89428 26337 24470 00135 80252
06197 37039 39034 38775 47347 14304 67233 63734 14867 64368
56310 41054 14472 28723 04355 04355 24819 14099 18056 79250
= = 183 30 000

M01: 4905 kHz, 08-07, 2000 UTC

025 227 30 = =
46537 76009 29059 14963 22859 57336 70888 67524 77696 16441
76227 71142 38408 50064 17298 84450 86526 32448 71367 89658
56434 98430 07782 72492 80584 10103 94903 71580 74257 18537
= = 227 30 0 0 0

M01: 6435 kHz, 12-07, 1500 UTC

025 730 30 = =
97623 06933 55024 31511 25409 96934 03088 24139 13501 30307
98682 52152 62972 57411 62530 04564 90151 24929 54137 73796
50873 66918 75278 59266 09321 71175 83781 93846 72813 61103
= = 730 30 0 0 0

M01: 5280 kHz, 22-07, 1800 UTC

025 307 30 = =
31357 80829 32817 35674 73184 91499 62934 89118 10234 87255
64364 74730 92969 86528 20390 12655 72389 05646 72576 38503
11288 35652 60203 95768 15752 04629 88833 82137 93502 34327
= = 307 30 0 0 0

M01: 4905 kHz, 22-07, 2000 UTC

025 605 30 = =
88900 ???9 12531 85863 99618 46738 99109 97881 30674 49639
45924 20204 01191 74071 43050 85191 22624 83798 69319 84048
24830 63112 27024 83790 41405 07940 04243 10864 46816 29144
= = 605 30 0 0 0

Interesting mistake on this one - the ID was keyed as "925" twice, in-between the normal keying of "025".

M01b: 5095//5760 kHz, 03-07, 1832 UTC

815 717 32 = =
06351 25664 24402 86002 47320 89449 24521 72678 83653 50467
10747 02716 44844 22324 92134 34561 14832 61599 73338 46864
06113 73467 99376 26074 13211 23194 07259 78830 08482 66619
62397 35680
= = 717 32 0 0 0

M01b: 5075//5465 kHz, 04-07, 1902 UTC / M01b: 5075//5465 kHz, 11-07, 1902 UTC

336 717 32 = =
06351 25664 24402 86002 47320 89449 24521 72678 83653 50467
10747 02716 44844 22324 92134 34561 14832 61599 73338 46864
06113 73467 99376 26074 13211 23194 07259 78830 08482 66619
62397 35680
= = 717 32 0 0 0

M01b: 5125//5735 kHz, 14-07, 1810 UTC

364 717 32 = =
06351 25664 24402 86002 47320 89449 24521 72678 83653 50467
10747 02716 44844 22324 92134 34561 14832 61599 73338 46864
06113 73467 99376 26074 13211 23194 07259 78830 08482 66619
62397 35680
= = 717 32 0 0 0

M01b: 5125//5735 kHz, 21-07, 1810 UTC / M01b: 5125//5735 kHz, 28-07, 1810 UTC

364 320 30 = =

86183 82219 53101 86357 83420 30814 94418 18377 24161 45187
04268 86291 07411 52573 08759 75217 23082 45229 25903 65071
14638 93440 83549 42713 20062 76014 77995 82497 49475 57346
= = 320 30 0 0 0

M01b: 5150//5475 kHz, 21-07, 1915 UTC

858 320 30

86183 82219 53101 86357 83420 30814 94418 18377 24161 45187
04268 86291 07411 52573 08759 75217 23082 45229 25903 65071
14638 93440 83549 42713 20062 76014 77995 82497 49475 57346
= = 320 30 0 0 0

M01b: 5095//5760 kHz, 24-07, 1802 UTC

815 320 30

86183 82219 53101 86357 83420 30814 94418 18377 24161 45187
04268 86291 07411 52573 08759 75217 23082 45229 25903 65071
14638 93440 83549 42713 20062 76014 77995 82497 49475 57346
= = 320 30 0 0 0

M01b: 5075//5465 kHz, 25-07, 1902 UTC

336 320 30

86183 82219 53101 86357 83420 30814 94418 18377 24161 45187
04268 86291 07411 52573 08759 75217 23082 45229 25903 65071
14638 93440 83549 42713 20062 76014 77995 82497 49475 57346
= = 320 30 0 0 0

M01b: 4895//5340 kHz, 25-07, 2010 UTC

467 320 30

86183 82219 53101 86357 83420 30814 94418 18377 24161 45187
04268 86291 07411 52573 08759 75217 23082 45229 25903 65071
14638 93440 83549 42713 20062 76014 77995 82497 49475 57346
= = 320 30 0 0 0



M03

7837 kHz, 02-07, 1115 UTC / 7837 kHz, 03-07, 1115 UTC

655/35 = =

26771 05639 04043 45229 13034 33323 95296 94909 73401 66829
97474 59465 39421 46753 69749 54315 80614 19015 38715 90679
24584 07513 23582 38901 39649 04024 36572 57768 42490 61888
98735 90880 68768 69146 53866
= = rpt msg, = = 000

7837 kHz, 03-07, 1320 UTC / 7837 kHz, 06-07, 1320 UTC

437/34 = =

27826 92236 19506 18201 73973 92682 89196 38396 57974 13118
07124 95184 60533 23683 11139 04629 73504 23295 84549 11774
75091 28420 38490 28133 36950 32783 68540 93051 78107 45189
36183 92048 55345 35677
= = rpt msg, = = 000

7727 kHz, 14-07, 1320 UTC / 7727 kHz, 16-07, 1320 UTC

542/32 = =

13754 45626 63793 98119 54487 90729 22850 56436 33696 04377
40814 32502 87444 69531 00062 95549 75254 95008 34689 85923
57487 73306 26239 01460 10217 54489 85180 95568 38651 80246
47127 42136

= = rpt msg, = = 000

6524 kHz, 15-07, 1535 UTC / 6524 kHz, 19-07, 1535 UTC

797/34 = =

77034 77034 55490 55490 57707 57707 91647 91647 73141 73141
90817 90817 98459 98459 14923 14923 19942 19942 44113 44113
00882 00882 21957 21957 44043 44043 60202 60202 78487 78487
44104 44104 01200 01200 44806 44806 01869 01869 97960 97960
89674 89674 42656 42656 60159 60159 78306 78306 93923 93923
85670 85670 62576 62576 34782 34782 09662 09662 24601 24601
37387 37387 58006 58006 96967 96967 38332 38332 = =

797/34 797/34 797/34 797/34 797/34 = =

77034 55490 57707 91647 73141 90817 98459 14923 19942 44113
00882 21957 44043 60202 78487 44104 01200 44806 01869 97960
89674 42656 60159 78306 93923 85670 62576 34782 09662 24601
37387 58006 96967 38332

= = 000



M08a

Dirección General de Inteligencia

Freq.	Date	UTC	Day	Remarks
7554	1-7	2001	Tue	NUUDN DUGWA UTNA
8135	1-7	2300	Tue	IDGGA GRNNN TTRUN
8096	2-7	1402	Wed	RNNNN TWRWA TGTIN
8096	3-7	1406	Thu	Very bad keying, unreadable
7554	3-7	2002	Thu	RAGTN GDDNA TRRWV
8135	3-7	2302	Thu	ANANA NWUUN DRAIN
8096	6-7	1444	Sun	Cuban cut nbrs
7554	6-7	2004	Sun	Cuban cut nbrs
8097	14-7	1400	Mon	????? 13562 26832
7554	17-7	2004	Thu	Tuning at 2004z. CW at 2013z: AGNRW NNWTA DWTNN
7554	18-7	2011	Fri	Cuban cut nbrs
8135	18-7	2320	Fri	Cuban cut nbrs
8097	19-7	1409	Sat	Cuban cut nbrs RIGMT ANDUW
8135	20-7	2310	Sun	Cuban cut nbrs. No callup, went right into text
8009	21-7	2322	Mon	Cuban cut nbrs
7554	25-7	2000	Fri	Cuban cut nbrs. ARNNN DIGWN UADIA
8135	25-7	2309	Fri	Cuban cut nbrs
8096	26-7	1405	Sat	Cuban cut nbrs
7554	26-7	2003	Sat	Cuban cut nbrs. AGNRN NNWTA DWTNN
8135	26-7	2305	Sat	Cuban cut nbrs
8135	27-7	2304	Sun	Tuning and then into CW at 2304z
8009	28-7	2321	Mon	Cuban cut nbrs
8096	29-7	1401	Tue	Cuban cut nrs: UAAUA WUWRN RIGTN
7554	29-7	2001	Tue	Cuban cut nrs: WRNIA RTWAN IDGUA
8009	30-7	2301	Wed	Cuban cut nbrs. IGRWN GDRIN RWNDA



M12

8047/6802/5788 kHz, 09-07, 1700/1720/1740 UTC

463 1 1108 67

14686 58302 69429 42963 41146 81990 99497 70344 76847 03894
72198 67553 64419 88909 69565 55293 60879 64861 62933 84749
04428 07054 53944 44781 84858 70682 66705 09994 90185 41421
18031 36001 64325 37279 63465 29630 28324 75259 69168 69892
28704 75582 48455 26055 30538 45354 06801 69311 69859 78887
22103 40913 59666 96291 88164 20614 06697 25269 10095 60942
92191 61638 20515 92162 16072 88039 83732
000 000

11435/10698/9327 kHz, 09-07, 1830/1850/1910 UTC

938 1 6856 68

85411 42616 26709 16113 20421 67851 24915 03112 44249 20395
31162 50161 88818 54741 25184 33172 38136 02733 43704 86207
46599 38062 23589 86969 06518 02762 74071 52273 07781 75677
19549 12817 33327 88039 93413 21919 35124 62293 29300 71379
71122 33384 98126 09356 98519 87664 96292 34028 94391 77539
61623 84194 04024 45538 83618 87306 18513 95977 37383 54608
29085 13485 23736 01506 02304 76714 76689 06313
000 000

9327 kHz, 14-07, 1640 UTC

938 1 2716 113

83508 21017 58536 91814 65901 87698 77980 41636 09976 40635
13540 85156 85285 35637 04710 15412 46596 24934 61740 62805
01843 10067 68422 59390 61299 87058 41407 16555 72864 66127
45333 43178 15258 83700 70893 59330 06856 66649 67280 49683
22070 61541 95016 83181 30378 88367 62074 07285 75171 98329
34241 00612 74197 12314 34351 28763 09509 87412 64760 72537
98798 66827 60207 48770 89670 42943 82445 31965 17427 75486
65809 26968 10666 85549 07458 69042 19385 12918 77414 79021
22529 55784 40466 93819 59036 81008 74037 29983 75027 02484
02629 70814 54466 60873 02434 17558 40961 86140 56659 47456
04707 79537 31675 85924 71637 71707 74243 59630 95153 98781
72473 36371 16977
000 000

13926/12126/10925 kHz, 17-07, 1310/1330/1350 UTC

919 1 1957 131

84468 41817 23763 41455 45237 73797 60852 18012 02212 42520
35567 59018 07754 23366 41254 63009 08775 86453 67638 15136
42166 96798 30354 06253 49048 90473 35963 96899 15667 18053
89054 33758 37067 57089 34616 42986 36326 22723 34301 02281
64762 44722 48117 00421 37506 52664 54393 95450 33356 03969
16307 96805 33925 00621 69079 85056 16645 29798 85527 31412
04479 79782 67679 19610 08295 14597 36223 80933 55606 72313
11491 85224 37508 93470 22104 02676 00866 77032 92285 68306
53075 51483 30547 23465 93297 09880 75218 37611 70409 26957
25860 06723 37371 34355 94496 20038 41057 52879 54511 36810
47084 28012 25060 93188 87914 50973 38690 15607 92009 88142
89400 61125 36488 54939 91511 44057 34445 73339 92371 41513
05623 72745 72550 43273 06321 58548 95423 28409 92755 59669
88235
000 000

11491 kHz, 17-07, 1640 UTC

725 1 7514 112

99574 72330 08090 51656 76492 33077 99369 90550 67130 05662
 71879 99153 70303 62743 43008 92501 19189 16549 88377 71225
 52143 42031 50176 97831 33378 82528 89190 35152 09629 81151
 93309 21860 66594 12407 58071 70005 10980 35606 78210 96543
 02691 77939 52864 91457 65395 41349 82898 07121 70015 53625
 42229 42922 72055 18477 06176 22194 83516 67291 70019 52886
 54372 39266 36479 10546 62219 22122 12996 64769 85104 15096
 79278 31618 90109 54719 80007 16644 28348 66186 58507 80874
 81551 88149 24105 55249 56214 03197 98848 63669 97836 02947
 60627 27961 57185 26422 26867 86019 79871 44249 49540 66503
 58635 89023 12145 07029 21855 18144 94114 23091 21458 92673
 83473 85907
 000 000

9176 kHz, 17-07, 1700 UTC

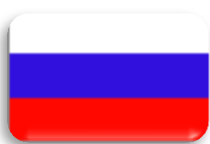
257 1 9037 84

09874 11838 73308 13133 51606 43748 15232 97976 29121 66383
 63041 25667 50258 83258 75092 44496 67203 55008 11756 74259
 56217 94387 01019 14885 66172 22258 45543 14588 91355 40170
 29568 87176 17274 38039 35937 03899 20118 79317 06799 05477
 10625 81864 01352 02583 24349 43479 41190 99160 49190 74952
 20857 42098 47052 94400 23233 40650 35562 67108 80140 90425
 43647 26801 95277 23273 24724 72672 64476 06808 45825 43129
 34701 76053 78406 60995 19632 75446 82726 88213 13272 27076
 13017 37245 86981 04931
 000 000

11435/10598/9327 kHz, 21-07, 1600/1620/1640 UTC

938 1 9455 107

33366 91272 04525 21326 38786 93110 06884 10974 58104 13205
 75879 29475 32553 90921 13854 82260 73569 57728 95430 51577
 60933 55357 02693 33163 96256 23992 83598 83978 41366 67462
 33866 54854 10810 77215 66125 49148 79134 15340 29345 22641
 16549 72823 17266 82631 53608 35710 22447 52970 58740 94203
 08929 59652 64981 06964 17845 32824 86632 99821 42425 02213
 98723 38854 29641 23373 63355 98784 45485 01752 39348 81981
 02942 73645 84322 88271 58171 63511 79169 55218 31088 58033
 22501 25439 03052 65866 88492 32137 38917 44014 95274 63272
 56498 22409 03499 64138 53064 27568 88916 98400 80573 42805
 60084 31709 23209 78610 21858 00011 46262
 000 000

**M14****7485 kHz, 04-07, 1700 UTC**

382 382 382 00000

6856 kHz, 08-07, 1820 UTC

163 254 020

44108 38962 04169 25742 58457 96892 92665 91221 97442 52207
 69143 30172 87088 13167 83155 41364 18451 28305 68131 82828
 00000 (no DK and GC given)

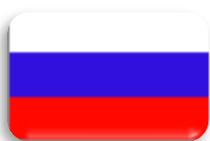
5938 kHz, 08-07, 1920 UTC

417 385 020

51059 23438 76167 45680 94045 26295 921?? 46?15 57552 67?51

95578 17869 76?94 68461 80694 32456 21369 84274 96823 ???17

385 020 00000



M21 + variants
Russian Air Defence Forces
Войска ПВО Voyska PVO

4904//6421 kHz, 26-07, 1143 kHz

=11002885422243 =11003885451843 =991544??8????? =4100110012??00 =11001885429944

=21001701080817 =991545??8????? =11004885189943 =11002885129644 =11002885422243

=11001885728348 =21001701080826 =11003885754248 =991549??8?????



M22 - 4XZ

4XZ transmitted on 3 new frequencies in July: 11153/12984/13892 kHz.

12984 kHz, 15-07, 2057 UTC

VVV DE 4XZ 4XZ = = WD7K QSL NR07 = = NA9R QSL NR 09/96 = = GS2N QSL NR 21/69 = = UQ9P NR 435 QSS = = ER2N NR 535

QKG R23 = = GS2N NR 135 EKGR 24 = = PE2N NR 335 QIG R75 = = PE2N NR 235 QIG R35 = =



M23

7438 kHz, 08-07, 0700 UTC: 200 (R9)

7438 kHz, 09-07, 0700 UTC: 200 (R9)

7438 kHz, 10-07, 0700 UTC: 200 (R9)

7438 kHz, 11-07, 0700 UTC: 200 (R9)

7438 kHz, 12-07, 0700 UTC: 200 (R9)

7438 kHz, 13-07, 0700 UTC: 200 (R9)

6961 kHz, 14-07, 0500 UTC: 200 (R9)

6961 kHz, 14-07, 0600 UTC: 200 (R9)

6961 kHz, 14-07, 0700 UTC: 200 (R9)

6961 kHz, 15-07, 0500 UTC: 200 (R9)

6961 kHz, 15-07, 0600 UTC: 200 (R9)

6961 kHz, 15-07, 0700 UTC: 200 (R9)

6961 kHz, 16-07, 0500 UTC: 200 (R9)

6961 kHz, 16-07, 0600 UTC: 200 (R9)

6961 kHz, 16-07, 0700 UTC: 200 (R9)

6961 kHz, 17-07, 0700 UTC: 200 (R9)

Not heard after 17 July.



M24

10834 kHz, 21-07, 2000 UTC

8096 kHz, 21-07, 2030 UTC

381 (R4) 642 642 108 108 = =

33910 09196 87030 43616 90483 03902 88400 32934 65805 04726
 23826 05148 95090 57587 39573 49970 94068 48973 89832 22117
 30040 60011 75822 80583 37513 35871 61554 11224 49736 37690
 02197 12315 45272 69198 45972 47795 32956 95247 95526 97873
 23664 94414 39717 61679 62339 12877 91731 91659 18709 11747
 94508 64395 60131 25047 79373 17536 55001 70522 88829 07532
 80175 80467 99459 67855 30821 44761 05853 72397 56155 83298
 51504 33729 69501 90004 17630 90913 06088 15612 05825 66553
 27052 81405 75510 97769 93062 41101 22101 70784 56017 33065
 06830 13817 42236 90044 74178 27957 25601 98613 17834 60720
 14075 25511 81125 51962 98030 53054 02864 06851

= = 642 642 108 108 00000



M51 / FAV22

8ème Régiment de

Transmission

8549 kHz, 25-07, 0712 UTC

NR 58 J 25 09:12:46 2014 =

EZQAQ NSJHR XYPCP KYSKT TNRJJ COSED QMNNW KKUKN KYDPC NLHHS
 HCKXB TCMVN AVZXY RWRRZ ZEUKT PKEKM EJMCI XKTIZ QYDVQ MUOVT
 GUOJA OXQMK NCHGX ZIIK LYJLA GOUBA IEBFH AJQFY KXUIY OWMMI
 LRPLT AJJRN JVKXD LFHVP OGKPB ICMAN WHFSO KAFYT WJCJM MSCFD
 ZHKXX SCGLU MZVWZ NTMSC UHTAE YHAFX DTBFN SLUPK FETDV BBHHD
 VGZDB HEOCC FBTGZ TBSO EBJBV FMAQD VRUWV SIYLA NVIVQ UIBRU
 PEGMN PYPQJ UFVAJ KVTYU XYPWM YJPHA JCYH AZUWE DUOUI BUGMF
 HRCST MRIKW UIMSL NPAOL TNCMU DAIRA QKPMI LUICF DWILX IXUIX
 YBDNV TILGF ZBDWC CMCAR ABTXD RVGBY QCHZY TRFYC CVGBC MVNBJ
 CIZRN HAAXA MNPAN IOGFV EKFEF JTHTR JUAQP ELKMH DRZGB FEYSP =

NR 59 25 09:18:56 2014 =



M89

Chinese military

Roundslips and callsigns

V A7TR A7TR A7TR DE DI9Q DI9Q
V 5RAB 5RAB 5RAB DE M9AB M9AB
V 7NPE 7NPE 7NPE DE QV5B QV5B
V 7NPE 7NPE 7NPE DE QV5R QV5R (faulty transmission)
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 GKN7 GKN7 HKN7 DE F3J5 F3J5
V H2FL H2FL H2FL DE DRV8 DRV8
V JKDJ JKDJ JKDJ DE SLBC SLBC
V M8JF M8JF M8JF DE RIS9 RIS9
V MW3D MW3D MW3D DE 2SLC 2SLC
V N4FM5 N4FM5 N4FM5 DE NAT491 NAT491
V Q5U8 Q5U8 Q5U8 DE 8QPP 8QPP
V QHV8 QHV8 QHV8 DE 8QPP 8QPP
V RA5J RA5J RA5J 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 TKLO DE TYUI TYUI
V VTX7 VTX7 VTX7 DE TZ7B TZ7B
V WZG6 WZG6 WZG6 DE 4VTG 4VTG
V YUQW YUQW YUQW 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
VVV Q2M Q2M Q2M DE NYZ NYZ

8HNY 8HNY DE J3MX
VV HOU5 DE J3MX
VV GM8T DE J3MX
VV B1VX DE J3MX
VV J8SR DE J3MX
VV 4GPY DE J3MX
VV LNW44 DE 5PKP
V AL7U DE 5PKP
VV WS2C DE 5PKP
DE 9SEO QSA 3 K
VV QD7Q DE 5PKP
VV J6EG DE 5PKP
VV KWIF DE 5PKP
T2VX
3KQI
U24S
9SEO
J2JR
HW3U
T6QSL
VV J6EG DE 5PKPK
VV 4IEU DE 5PKPK

Messages:

5365 kHz, 10-07, 1304 UTC

8P TEEEEE
R 8PMS DE JOMX R QSA 2 QSA ? K
R QSA 2 K
R R HR WK NR 23 K
R HR WK NR .. K K
R U22.0 K
R K (Fading badly)
R HR WK NR 23 K
HR WK NR 18 K
AGN
HR WK NR 18 K
R 220.. OMMB9 EEEE
R U 2200 COMM B8Q. K
OK
R HR DPUK OK ..
VV .. DE L0.. R JOMX
R HR WK NR 23 K
R HR WK NR .5 K
2200 COMM .5MV K (1310z - Now fading too badly)

8676 kHz, 01-07, 0206 UTC

V CQ (x3) DE DP91 (x2)
PSE YK ITT YK TC FREQ WNIHR NIL SK GB
PSE YK IIO YK TC FREQ W AHR NIL SK GB

6666 kHz, 06-07, 1601 UTC

CQ CQ EEEEE
= = 464TN 3T. 070 7TTT T7T UD7 U66 T36 AR W
CQ CQ CQ CQ 4 YQ O ? EEEEE
55 CQ T
CQ CQ CQ 467AA A. ? AUNTU 65 O36T U56 U4U T3N AR M ? AR W
CQ CQ CQ GD ? OK = = 4640N 30007 TTT070 ? 7U66 T36 AR W OX ? OK = = 4?
CQ CQ GA 464TN 3TTT 7TTTT T7T UD7 U66 ? U66 V? T36 AR W OK
= = 467AA USE ? AUNTU 65O36T U56 U4UT3N
= = 6UAD 5E ? 6? 6UAD 5U43 UANA ND7U 4N3N 3D6N N73T AD73 T7UNN
TTT3 654D 43D6 376T 3T6U 4AAT AV? AUT4 ANSA 34AD 565U A6U6 N6U3
(Cont'd)

5500 kHz, 14-07, 2126 UTC

09/0555/z21/43141 EEEEE AGN
VV UGT COMM = 9609/0555/Z21/4314 AR
VV UGT COMM = 9609/0555/Z21/4314 AR
V 7NPE DE QV5B

7777 kHz, 01-07, 1017 UTC

8HNY 8HNY DE J3MX K
DE J.... DE K
R QSA 2 K
R IEC = .4.5 AR K (Normally associated with Exercise traffic)
R HR NR 24. K
R AS
VV 8HNY 8HNY DE J3MX K
VV 8HNY EEEEEEE VV 8HNY DE J3MX K
DE AS
CQ GA
HR CQ GA
MSG NR 07/CCK CK 31 0801 1800 RMKS CQ
MSG NR 07/CCK CK 55 31 0701 1800 RMKS CQ
=
5UU7 AU43 6U47 TN63 7TAT 674. (Cont'd)
AR AR
VV HOU5 DE J3MX K
R RR
AGN
= NU.. AR
R NR 15.. U QSY TO NR 15 K
SK
8HNY DE J3MX K
VV GM8T DE J3MX K. VV GM8T DE J3MX K
R R R R
VV GM8T DE J3MX K
R RR
AGN
R U QSY TO NR 24 K NR 24 K
VV B1VX DE J3MX K
R R
R U QSY TO NR 19 NR 19 K
SK
VV J8SR DE J3MX K
R R
QSL K
R = N54A AR K
R U QSY TO NR 12 NR 12 K
SK
VV 4GPY DE J3MX K. VV 4GPY DE J3MX K
R R
R = N54A AN K = N54A AR K
AGN
QSL K
MSG NR 07/CCK K K K. MSG NR 07/CCK K K K
R U QSY TO NR 20 K
U QSY TO NR 20 NR 20 K
R R SK
VV HOU5 DE J3MX K K. VV HOU5 DE J3MX K K
VV HOU5 DE J3MX K (1037z silent)

8887 kHz, 29-07, 1234 UTC

7G GA HW RNT
HA HR 7G GA HW RNT
R R G HA H MRR QSA 2 R K
R R DE Q.N QY.8 NR 303 NR 303 R K
R AR AR AR AR PRAA. .AR AR AR AR AR
7G NR 001 CK 95 55 0729 2.35 RMKS 1915 TO 1092 AR AR K
WA NG AGN
QY8 NR 303 AR K
R DE ..M8 NR 303 AR K (Callsign possibly QYM8)
DE QY8. NR 303 AR K
HI HSSSII HHH SSSIIIII ESSE EEEEE
05 05 05 HS 05 5 5 5
LB7B B7DNT
EEE SEISHEISSHEISSEIS
VVV MSG NR 074 CK 95 55 0727 2045 RMKS 6241 TO 646. AR K
SSIHSEI S55
(Appears to have several - possibly 3 different stations on this frequency)

7777 kHz, 06-07, 0137 UTC

HR 7G GA K
R R HR 7G GA K (Other station also on this frequency, but mostly unreadable)
NR 7G NR 020 CK 30 45 0706 0940 RMKS 1088 TO 7982 K
R = =
NN74 5U6U 3756 UT56 T56U TT77 NN? N3UD TA5U 5D5U AA74 TNA4 5754
TTU4 (Cont'd)
AR K AS

7777 kHz, 12-07, 0809 UTC

05 05 05 05 5555
S5O
50 5 05 05
5050505050505050
50 5 50 50 5
505050550550E
5050505055
505050
50505 (0815z - Silent)

8073 kHz, 14-07, 1204 UTC

033 773357 373EEEE = = =
4AAN N345E ? ? 4464.443D3D34DT4D4
W AR AR AHR MSG GA AHR MSG GA
NR 0509 CK 47 35 0714 1648 = =
TT7 ? TT7N SE ? N5UT A4N5 3TAD N547 TTTT U.46 6T3 6 T66T ATTN DE ? ?
6T36 ATTA 46A4 A3? A3A6 A5UN (Cont'd)
AR AR AR (Switched to voice - 1209Z)

10180 kHz, 15-07, 1309 UTC

i.p. SVC QR. 2595/8.6 QSW L.
AR. R.. 2.. 500217325936 8.. QRW 5 2595684..W 16..91 QSL ?
HR WK NR ... AR K.
V DKG6 DE 3A7D

7788 kHz, 25-07, 1457 UTC

3U3A N7U5 .4U3 (Cont'd)
AR DUT III =
NTA 29 =
UE.3 54D ...
TA EEEEEEEEE
R RPT 8W UA63K
RPT TEEEEEE RT A EEEEE RRPT TK
R RPT 5W TO 10W = UA63 54 AR K
AR EEEE R RPT 8W TO 10 IIII EEEE R RPT 8W TO 10W = UA.3 574 DURT AR K
APT EEEE R RPT K
R QSL EEE QSA ? K
R 68 CHG USB .K K
BZXCI EEE R BOZ CHG USB WK K
R BO EEEE R BOZ CHG USB WK

5801//10180 kHz, 25-07, 1328 UTC

VVV HR SVC GA
NR 03.16 RMKS 6845 TO 6825 2131 =
SVC CRT .N5/CC4 299 1. 0.2030 6845 TO 62EEEEEE =
SVC CAT .55/CCK .99 190. 030 6845 TO 6825 2131 TIRE MSG NR
0.6/CCK AR HR .. NR 35 ..

8072 kHz, 30-07, 1027 UTC

VVV SVC NR .9 1330 RMKS 337. TO 2247 / 2354 =
COMM/915/LZ164A 4/2378/2347 AGN
NR 7.183. 8 347 82.2.54 92394 . 824 915824 02. 22604/17./47051 FM 5?
02..WK NR 6 (Return to roundslip)

6666 kHz, 13-07, 1400 UTC

AT43 46TD 436U (Cont'd) AR AR
R R R 1W BT 75TD AR K
R 18W BT 46D5 AR K
R 28W BT .N5T AR K
AGN
R 42W BT 5DA5 AR K
R R
AGN
R 2W BT 6T73 AR K
R 12W BT T7NA AGN 12W BT T76 AR K
22W K
R R 22W BT T AGN BT A77T AR K
R 35W BT DETT 4 AR K
R 45W BT 6U64 AR K
R 49W BT 7645 AR K
R 61W BT U44T AR
R 66W BT U AGN 66W BT DUDN AR
FM BT U54A AR K
R 88W BT BT 7N.5 AR K
R R R 77W TO 80W BT
75DA 7354 U6T3 7AUA AR K
R 40W BT DAN5 AR K
R 40W BT DAN5 AR
R 14W BT 5AUD AR K
R R R R GA
NR ? R R R NR ?
R GA K

4532 kHz, 15-07, 1031 UTC

05 05
VV WS2C DE 5PKP K
R DE 9SEO K
R R QSA 2 K
R RR IEC = = 3757 AR K
R R HR N IEC = 4759 K
R R HR 7G TO U K
R OK GA
R R MSG NR 382 CK 100 33 0715 1832 K
5013 TO 5179 TO 5013 AR K
R MSG GA K
R R =
56NT AT3U AU3D 756T 6TD3 7453 6U37 6TD3 U653 D436 5NA7 (Cont'd)
AR
91 NR 13. K
R WK NR 318 K
OK.... K
R R OK GK
R 7G NR 382 CK 100 33 0715 1832 E = 50.3 TO 5.79 TO 5113 K
RR GA K
7G GA ==
56NT AT3U AU3D 756T 6TD3 7453 6U37 (Cont'd)
(Other station appears to be sending msg sent back to the other station)
AR
RPT 34W K
R = W = NA34 II K
R R PT 72W K
R 72W = = 67D3 AR
R R QSL 1845 WK NR IIII WK NR 318 K
R R HR WK NR 23 K
R R NIL VA
OK BD VA (1047z - Silent)

4532 kHz, 15-07, 0953 UTC

5PKP K
R R DE T24X QSA 3 K
R R QSA 2 ...
NIL SK
VV LNW44 DE 5PKP K
R R DE 3KQI QSA 2 K
R R QSA 2 NI..
NIL SK
V AL7U DE 5PKP K
DE U2U. QSA 2 K
R R QSA 2 NIL SK
OK N PSE
VV WS2C DE 5PKP K
DE 9SEO QSA 3 K
R R QSA 3 NIL VA
R OK .. SK PSE
VV P.JV DE 5PKP K
R R DE .2JR QSA 2 K
R = HJNIL VA
OK .. VA PSE
VV QD7Q DE 5PKP K
... QSA..
R R QSA 2 NIL VA
VV J6EG DE 5PKP K
NR.. QSA 2 K
R R QSA 1 NIL VA
OK NIL 3 PSE
VV KWIF DE 5PKP K. VV KWIF DE 5PKP K. VV K2IF DE 5PKP K
.. QULON QSA 2 K
R R QSA 2 NIL VA (Normally SK is sent vice VA)
N OK NIL VA PSE
VV E NR 95/EX 1805 RMKS CQ = NKL/9 AR
E NR 95/EX 1805 RMKS CQ = EEEE= NKL/9 AR
WK NR 318 K
R R BSVE QSL ..1705 NR 155 AR
NR DE QUL 9 QSL ..1806 WK NR 302 AR
NR . X 1 QSL 1806 WK NR 1221 AR
DE T2VX QS.. 180. WK NR .25 AR
NR DE 3KQI QSL D 1807 WK NR 411 AR
R DE U245 QSL .1807 WK NR 203 AR
R DE 9SEO QSL .. 181? D G 1807 WK NR 13. AR
DE J2JR QSL . 1807 WK NR 739 K
DE HW3U QSL BG 1807 WK NR 553 AR
R R B DE T6QSL 1807 WK NR 1. AR
VV J6EG DE 5PKP K
R K
R R QSL ? K
R R QSL RR QSL .. 1807 WK NR 18. K
R R NIL VA
OK NIL VA PSE
VV 4IEU DE 5PKP K
R .. .
R R QSL ? K
R QSL .1805 NR 154 AR
R R NIL VA
NIL VA

4720 kHz, 31-07, 1357 UTC

i.p. D7A3 34UD 6DD5 76DD NUDD 7DA3 5763 D635 (Cont'd)
III III 10P GA = =
NA5D 35U5 375D D33A U7N5 A7A4 N757 UD43 (Cont'd)

4061 kHz, 31-07, 1509 UTC

4D7N 376D 75DT 7653 AD34 3? 46NN NDU7 433A (Cont'd)
III III == 644D .. (Cont'd)
AR
VV S7MI K
RPT 98W BT NU3D NU3D K
R A EEEE K AS AS
VV 7XQS K VV 7XQS K
R AS
VV 1MEA K
R AS
VV Z..D K
RPT R PT K
R AS
RPT 77W TO 80 BT BT D.75 NAU5 D3A7 3T63 AR K
R AS
VV S7MI GA GA

88888 kHz, 31-07, 1324 UTC

R R QSL 2122 K
R R U E GA K (Both stations on this frequency)
R R HR \E (Sounds like a barred E letter)
R R HR \E NR 119/EX 2122 RMKS 5557 TO 5573 K (1325Z)
R R GA K
R R BT
A162/C3D4 AR K
R R =
A1B2/C3D4 AR K
R R QSL 2124 K
R U MSG GA K
R R 7G NR 244 CK 99 66 0731 EEEEE
R R 7G NR 244 CK 99 6 /EEE
R R 7G NR EEEEE
R R 7G NR 244 CK 99 66 0731 2127 RMKS 5573 TO 5575 K
R R GA K
R R BT
3N6U A6D3 TNA7 356A A345 (Cont'd)
(Other station asking for repeat)
R GA K (Cont'd)



M97

Vietnamese numbers

Frequency: 10375 kHz
Mode: Morse

We received the following logs from Token. See also V30 for further comments and schedules.

M97 logs, April 16 to July 26, 2014:

10365 kHz, 1457z, 16 April, 2014, (SD 84, SN 58, message x3), Wed
10365 kHz, 1457z, 17 April, 2014, (SD 84, SN 58, message x3), Thu
10365 kHz, 1457z, 18 April, 2014, (SD 84, SN 58, message x3), Fri
10365 kHz, 1501z, 05 May, 2014, (SD 84, SN 58, message x3), Mon
10365 kHz, 1500z, 08 May, 2014, (SD 84, SN 58, message x3), Thu
10365 kHz, 1500z, 09 May, 2014, (SD 84, SN 58, message x3), Fri
10365 kHz, 1500z, 12 May, 2014, (SD 84, SN 58, message x3), Mon
10365 kHz, 1500z, 13 May, 2014, (SD 84, SN 58, message x3), Tue
10365 kHz, 1459z, 01 July, 2014, (SD 84, SN 58, message x3), Tue
10365 kHz, 1459z, 02 July, 2014, (SD 84, SN 58, message x3), Wed
10365 kHz, 1459z, 03 July, 2014, (SD 84, SN 58, message x3), Thu
10365 kHz, 1459z, 14 July, 2014, (SD 84, SN 58, message x3), Mon
10365 kHz, 1459z, 15 July, 2014, (SD 84, SN 58, message x3), Tue
10365 kHz, 1459z, 16 July, 2014, (SD 84, SN 58, message x3), Wed
10365 kHz, 1458z, 23 July, 2014, (SD 84, SN 58, message x3), Wed
10365 kHz, 1458z, 24 July, 2014, (SD 84, SN 58, message x3), Thu



MC03

Chinese Air Defense

8000 kHz, 12-07, 2255 UTC

FKFKFK A6AA3N76

FKFK A6AT3N76554

FK FK A6UA3ND7554 NR ... N7N54

NR A6UT3N.N54

NR A6..3ND455

NR A6UA3ND355



UM01

Unid CQ station

Not heard. Either changed to a new -yet unid- frequency or off the air.



UM10

Unid 10-minutes net

4137 kHz, 02-07, 1824 UTC POCI

3709 kHz, 02-07, 1726 UTC NJ6A

3880 kHz, 31-07, 1716 UTC LEQA

3285 kHz, 31-07, 1716 UTC LEQA

VARIOUS MODES



HM01

Dirección General de Inteligencia

Freq.	Date	UTC	Day	Remarks
14375	1-7	0500	Tue	56458 44701 75471 28267 82043 83757
13435	1-7	0700	Tue	56458 44701 75471 28267 82043 83757
11435	1-7	1604	Tue	56459 44702 75471 28268 82044 83758
11635	1-7	1635	Tue	56459 44702 75471 28268 82044 83758
11530	1-7	1713	Tue	56459 44702 75471 28268 82044 83758
11635	1-7	1802	Tue	56459 44702 75471 28268 82044 83758
16180	1-7	2103	Tue	56459 44702 75471 28268 82044 83758
17480	1-7	2157	Tue	56459 44702 75471 28268 82044 83758
10345	2-7	0600	Wed	56459 44702 75471 28268 82044 83758
10345	2-7	0600	Wed	56459 44702 75471 26268 82044 83758 # 3 unchanged
9330	2-7	0700	Wed	56459 44702 75471 28268 82044 83758
11435	2-7	1604	Wed	56459 44702 75471 28268 82044 83758

Freq.	Date	UTC	Day	Remarks
11530	2-7	1737	Wed	56459 44702 75471 28268 82044 83758
11635	2-7	1800	Wed	56459 44702 75471 28268 82044 83758
11635	2-7	2101	Wed	56459 44702 75471 28268 82044 83758
10715	2-7	2248	Wed	56459 44702 75471 28268 82044 83758
14375	3-7	0500	Thu	56459 44702 75471 28268 82044 83758
14375	3-7	0600	Thu	56459 44702 75471 26268 82044 83758
13435	3-7	0700	Thu	56459 44702 75471 28268 82044 83758
11635	3-7	0827	Thu	56459 44702 75471 28268 82044 83758
11462	3-7	0900	Thu	56459 44702 75471 28268 82044 83758
11435	3-7	1643	Thu	56459 44702 75471 28268 82044 83758
11530	3-7	1708	Thu	56459 44702 75471 28268 82044 83758
11635	3-7	1803	Thu	56459 44702 75471 28268 82044 83758
16180	3-7	2101	Thu	56459 44702 75471 28268 82044 83758
17480	3-7	2208	Thu	56459 44702 75471 28268 82044 83758
5855	4-7	0600	Fri	56459 44702 75471 26268 82044 83758
9330	4-7	0700	Fri	56459 44702 75471 28268 82044 83758
11435	4-7	1600	Fri	56459 44702 75471 28268 82044 83758
11530	4-7	1730	Fri	56459 44702 75471 28268 82044 83758
11635	4-7	1804	Fri	56459 44702 75471 28268 82044 83758
11635	4-7	2104	Fri	Very brief music, then YL/SS Uno Uno Uno, then 56459 44702 75471 28268 82044 83758
10715	4-7	2200	Fri	56459 44702 75471 28268 82044 83758
14375	5-7	0600	Sat	56459 44702 75471 26268 82044 83758
14375	5-7	0616	Sat	i.p. 56459 44702 75471 28268 82044 83758
13435	5-7	0700	Sat	56459 44702 75471 28268 82044 83758
11435	5-7	1616	Sat	56459 44702 75471 28268 82044 83758
11530	5-7	1701	Sat	56459 44702 75471 28268 82044 83758
11635	5-7	1800	Sat	56459 44702 75471 28268 82044 83758
16180	5-7	2101	Sat	56459 44702 75471 28268 82044 83758
17480	5-7	2200	Sat	56459 44702 75471 28268 82044 83758
10345	6-7	0600	Sun	56459 44702 75471 26268 82044 83758
11435	6-7	1602	Sun	56459 44702 75471 28268 82044 83758
11530	6-7	1703	Sun	56459 44702 75471 28268 82044 83758
11635	6-7	1800	Sun	56459 44702 75471 28268 82044 83758
10715	6-7	2200	Sun	56459 44702 75471 28268 82044 83758
10345	7-7	0600	Mon	56459 44702 75471 26268 82044 83758
11435	7-7	1615	Mon	56459 44702 75471 28268 82044 83758
11530	7-7	1740	Mon	56459 44702 75471 28268 82044 83758
11635	7-7	1802	Mon	56459 44702 75471 28268 82044 83758
14375	8-7	0500	Tue	57521 07372 38121 08777 38084 78148
5855	9-7	0500	Wed	57521 07373 38122 08778 38085 07701
9065	9-7	0943	Wed	
14375	10-7	0500	Thu	57521 07373 38122 08778 38085 07701
11530	14-7	1700	Mon	57521 07373 38122 08778 38085 07701
11635	14-7	2123	Mon	5-digit Spanish YL numbers is stuck on only two of them: 2s and 3s over and over and over
14375	15-7	0500	Tue	57521 07373 38122 08778 38085 07701
14375	15-7	0500	Tue	57521 07373 38122 08778 38085 07701
14375	15-7	0600	Tue	57521 07373 38122 08778 38085 07701
13435	15-7	0700	Tue	57521 07373 38122 08778 38085 07701
11635	15-7	0800	Tue	57521 07373 38122 08778 38085 07701
5855	16-7	0500	Wed	Carrier up at 0500. Txm starts at 0505 UTC: 57522 07374 38123 12511 38086 07701
5855	16-7	0500	Wed	57522 07374 38123 12511 38086 07701

Freq.	Date	UTC	Day	Remarks
9155	16-7	1053	Wed	i.p.
14375	17-7	0500	Thu	57523 07375 38124 12511 38087 07702
5855	18-7	0500	Fri	57524 07376 38125 12512 38088 07703
5855	18-7	0535	Fri	
10345	18-7	0535	Fri	
9065	18-7	0800	Fri	57524 07376 38125 12512 38088 07703
5955	18-7	1030	Fri	//9155 kHz
9155	18-7	1030	Fri	//5955 kHz
11435	18-7	1616	Fri	57525 07377 38126 12513 70631 07704
11530	18-7	1700	Fri	57525 07377 38126 12513 70631 07704
16335	18-7	1801	Fri	57525 07377 38126 12513 70631 07704
16335	18-7	2105	Fri	57525 07377 38126 12513 70631 07704
14375	19-7	0500	Sat	57525 07377 38126 12513 70631 07704
14375	19-7	0602	Sat	
11435	19-7	1603	Sat	57526 07378 38127 12514 70631 07705
11530	19-7	1711	Sat	57526 07378 38127 12514 70631 07705
11635	19-7	1805	Sat	57526 07378 38127 12514 70631 07705
16180	19-7	2101	Sat	57526 07378 38127 12514 70631 07705. Stopped at 2201 UTC
17480	19-7	2205	Sat	57526 07378 38127 12514 70631 07705. Late start
5855	20-7	0500	Sun	57526 07378 38127 12514 70631 07705
9065	20-7	0800	Sun	57526 07378 38127 12514 70631 07705
9240	20-7	0940	Sun	i.p.
11435	20-7	1601	Sun	57527 07379 38128 12515 70632 07706
11530	20-7	1700	Sun	57527 07379 38128 12515 70632 07706
11635	20-7	1800	Sun	57527 07379 38128 12515 70632 07706
11635	20-7	2100	Sun	57527 07379 38128 12515 70632 07706
10715	20-7	2200	Sun	57527 07379 38128 12515 70632 07706
5855	21-7	0500	Mon	57527 07379 38128 12515 70632 07706
10345	21-7	0600	Mon	57527 07379 38128 12515 70632 07706
9330	21-7	0700	Mon	57527 07379 38128 12515 70632 07706
11435	21-7	1600	Mon	57528 73871 38129 12516 70633 07707
11530	21-7	1700	Mon	57528 73871 38129 12516 70633 07707
11635	21-7	1800	Mon	57528 73871 38129 12516 70633 07707
11635	21-7	2123	Mon	57528 73871 38129 12516 70633 07707
10715	21-7	2241	Mon	57528 73871 38129 12516 70633 07707
14375	22-7	0500	Tue	57528 73871 38129 12516 70633 07707
14375	22-7	0505	Tue	57528 73871 38129 12517 70633 07707
11635	22-7	0800	Tue	57528 73871 38129 12517 70633 07707
11462	22-7	0900	Tue	57528 73871 38129 12517 70633 07707
11635	22-7	1022	Tue	57528 73871 38129 12516 70633 07707 not in sync with 12180 kHz
12180	22-7	1022	Tue	57528 73871 38129 12516 70633 07707 not in sync with 11635 kHz
11435	22-7	1634	Tue	57528 73871 38129 12516 70633 07707
11530	22-7	1707	Tue	57528 73871 38129 12516 70633 07707
11635	22-7	1817	Tue	57528 73871 38129 12516 70633 07707
17480	22-7	2200	Tue	68158 24467 55523 54737 28627 07711
10345	23-7	0600	Wed	28627 07711 68158 24467 55523 54737
10345	23-7	0600	Wed	28627 07711 68158 24467 55523 54737
9330	23-7	0700	Wed	28627 07711 68158 24467 55523 54737
9065	23-7	0800	Wed	28627 07711 68158 24467 55523 54737
11435	23-7	1602	Wed	28628 07711 68159 24468 55524 54738
11530	23-7	1715	Wed	28628 07711 68159 24468 55524 54738

Freq.	Date	UTC	Day	Remarks
11635	23-7	1801	Wed	28628 07711 68159 24468 55524 54738
11635	23-7	2100	Wed	28628 07711 68159 24468 55524 54738
10715	23-7	2209	Wed	28628 07711 68159 24468 55524 54738
14375	24-7	0500	Thu	28628 07711 68159 24468 55524 54738
14375	24-7	0600	Thu	28628 07711 68159 24468 55524 54738
13435	24-7	0700	Thu	28628 07711 68159 24468 55524 54738
11462	24-7	0900	Thu	28628 07711 68159 24468 55524 54738
12180	24-7	1019	Thu	i.p., barely audible
11435	24-7	1701	Thu	28629 0771 56251 34031 55525 14421
11635	24-7	1805	Thu	28629 07712 56251 34031 55525 14421
16180	24-7	2100	Thu	28629 07712 56251 34031 55525 14421
17480	24-7	2200	Thu	28629 07712 56251 34031 55525 14421
5855	25-7	0500	Fri	28629 07712 57251 34031 55525 14421
10345	25-7	0500	Fri	28629 07712 57251 34031 55525 14421
10345	25-7	0600	Fri	28629 07712 57251 34031 55525 14421
9330	25-7	0700	Fri	28629 07712 57251 34031 55525 14421
9240	25-7	0900	Fri	28629 07712 57251 34031 55525 14421
11435	25-7	1641	Fri	28629 0771 56251 34031 55525 14421
11530	25-7	1700	Fri	28629 0771 56251 34031 55525 14421. Should be on 11635 kHz. Switched to 11735 kHz at 1804 UTC
11530	25-7	1700	Fri	28629 0771 56251 34031 55525 14421
11635	25-7	1804	Fri	28629 0771 56251 34031 55525 14421
11635	25-7	2102	Fri	28629 0771 56251 34031 55525 14421
10715	25-7	2200	Fri	28629 0771 56251 34031 55525 14421
11462	26-7	0500	Sat	28629 07712 57251 34031 55525 14421
11435	26-7	1602	Sat	28629 0771 56251 34031 55525 14421
11530	26-7	1700	Sat	28629 0771 56251 34031 55525 14421
11635	26-7	1800	Sat	28629 0771 56251 34031 55525 14421
5855	27-7	0500	Sun	28629 07712 57251 34031 55525 14421
11435	27-7	1635	Sun	28629 07712 57251 34031 55525 14421
11530	27-7	1700	Sun	28629 07712 57251 34031 55525 14421
11635	27-7	1800	Sun	28629 07712 57251 34031 55525 14421
11635	27-7	2109	Sun	28629 07712 57251 34031 55525 14421
10715	27-7	2200	Sun	28629 07712 57251 34031 55525 14421
5855	28-7	0500	Mon	28629 07712 57251 34031 55525 14421
9065	28-7	0814	Mon	i.p.
11435	28-7	1605	Mon	28629 07712 57251 34031 55525 14421
11530	28-7	1704	Mon	28629 07712 57251 34031 55525 14421
11635	28-7	1805	Mon	28629 07712 57251 34031 55525 14421
11635	28-7	2100	Mon	Transmitter tuned but no traffic
10715	28-7	2200	Mon	28629 07712 57251 34031 55525 14421. Suddenly cut off at 2209z. Carrier back up at 2219z. Audio back at 2222z
11435	29-7	1603	Tue	28629 07712 57251 34031 55525 14421
11530	29-7	1702	Tue	28629 07712 57251 34031 55525 14421 28629 etc wk sig, fading 29702
11635	29-7	1803	Tue	28629 07712 57251 34031 55525 14421 28629 etgc 291803
16180	29-7	2137	Tue	83121 07713 57251 34031 55526 14421 at 292137
17480	29-7	2200	Tue	83121 07713 57251 34031 55526 14421 83121 etc 292212
8135	29-7	2301	Tue	YL/SS in LSB 83121 07713 57251 34031 55526 14421 then RDFT
5855	30-7	0500	Wed	83121 07713 57251 34031 55526 14421. Late start at 0504 UTC
10345	30-7	0600	Wed	83121 07713 57251 34031 55526 14421
9330	30-7	0700	Wed	83121 07713 57251 34031 55526 14421

Freq.	Date	UTC	Day	Remarks
9065	30-7	0800	Wed	83121 07713 57251 34031 55526 14421
11435	30-7	1602	Wed	83122 07714 57252 34032 55527 14422
11530	30-7	1740	Wed	83122 07714 57252 34032 55527 14422
11635	30-7	1806	Wed	83122 07714 57252 34032 55527 14422
11635	30-7	2101	Wed	83122 07714 57252 34032 55527 14422
14375	31-7	0500	Thu	83122 07714 57252 34032 55527 14422. Late start at 0505z
14375	31-7	0600	Thu	83122 07714 57252 34032 55527 14422
13435	31-7	0700	Thu	83122 07714 57252 34032 55527 14422
11635	31-7	0800	Thu	83122 07714 57252 34032 55527 14422
11462	31-7	0900	Thu	83122 07714 57252 34032 55527 14422
11635	31-7	1000	Thu	83122 07714 57252 34032 55527 14422 //12180 kHz
12180	31-7	1000	Thu	83122 07714 57252 34032 55527 14422 //11635 kHz

M42 & X06



Modes:

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

Russian Government & Intelligence



16336 kHz, 20-07, 1540 UTC, FSK 200/1000

Link ID 53269 Msg Number 112 : Msg Type 07145 : Group Count (?) 4 56988 00000 00000 03248 12857 33755 00893 16454
Link ID 20501 Msg Number 112 : Msg Type 07161 : Group Count (?) 4 56988 00000 00000 03248 12857 33755 00893 16450
Link ID 20501 Msg Number 112 : Msg Type 07145 : Group Count (?) 4 56476 00000 00000 03248 12857 50139 00893 16462
Link ID 20543 Msg Number 112 : Msg Type 07145 : Group Count (?) 4 56972 00256 00256 03248 12849 58202 02941 24642
Link ID 00001 Msg Number 096 : Msg Type 06665 : Group Count (?) 0 53788 00000 00000 03200 12825 00987 00893 16454
Link ID 20501 Msg Number 112 : Msg Type 07145 : Group Count (?) 4 56988 00000 00000 03248 12857 33755 00893 16454

11083 kHz, 22-07, 2322 UTC, FSK 200/1000

Link ID 40988 Msg Number 072 : Msg Type 07145 : Group Count (?) 229 46284 21569 52704 21818 16071 35989 48679 45249
Link ID 63646 Msg Number 236 : Msg Type 07149 : Group Count (?) 229 46286 21729 61424 32575 16327 52373 65063 61633
Link ID 40988 Msg Number 072 : Msg Type 07145 : Group Count (?) 229 46284 21569 52704 21818 16071 35989 48679 45249
Link ID 40988 Msg Number 072 : Msg Type 07145 : Group Count (?) 229 46284 21569 52704 21818 16071 35989 48679 45249

11083 kHz, 29-07, 2321 UTC, in progress

Link ID 40988 Msg Number 002 : Msg Type 07145 : Group Count (?) 4 20333 00000 00000 02514 10214 36826 00893 22662
Link ID 40972 Msg Number 000 : Msg Type 07145 : Group Count (?) 4 20333 00000 00000 00208 01988 03712 00888 00004
Link ID 08332 Msg Number 128 : Msg Type 07145 : Group Count (?) 4 20333 00000 00000 00066 00866 03904 00308 02178
Link ID 40988 Msg Number 002 : Msg Type 07145 : Group Count (?) 4 20333 00000 00000 02514 10214 36826 00893 22662
Link ID 00012 Msg Number 000 : Msg Type 07008 : Group Count (?) 4 20268 00000 00000 00064 00866 03904 00308 02178
Link ID 40988 Msg Number 002 : Msg Type 07145 : Group Count (?) 4 20333 00000 00000 02514 10212 36800 00888 22660
Link ID 40988 Msg Number 002 : Msg Type 07145 : Group Count (?) 4 20333 00000 00000 02514 10214 36826 00893 22662
Link ID 40988 Msg Number 002 : Msg Type 07145 : Group Count (?) 4 20333 00000 00000 02514 10214 36826 00893 22662
Link ID 40988 Msg Number 002 : Msg Type 07145 : Group Count (?) 4 20333 00000 00000 02514 10214 36826 00893 22662
Link ID 40988 Msg Number 002 : Msg Type 07145 : Group Count (?) 4 20333 00000 00000 02514 10214 36826 00893 22662
Link ID 40988 Msg Number 002 : Msg Type 07145 : Group Count (?) 4 20333 00000 00000 02514 10214 36826 00893 22662
Link ID 40988 Msg Number 002 : Msg Type 07145 : Group Count (?) 4 20333 00000 00000 02514 10099 36725 02998 23755

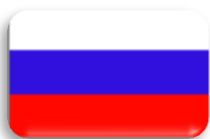
Link ID 40988 Msg Number 002 : Msg Type 07145 : Group Count (?) 4 20333 00000 00000 02514 10214 36826 00893 22662
 Link ID 40988 Msg Number 002 : Msg Type 07145 : Group Count (?) 4 20333 00000 00000 02523 10214 36826 00893 22662
 Link ID 40988 Msg Number 002 : Msg Type 07145 : Group Count (?) 4 20333 00000 00000 02512 00866 03904 00308 02178
 Link ID 40988 Msg Number 002 : Msg Type 07145 : Group Count (?) 4 20333 00000 00000 02514 10214 36826 00893 22662
 Link ID 40972 Msg Number 002 : Msg Type 07145 : Group Count (?) 4 20333 00000 00004 00210 10214 36826 00893 22662
 Link ID 08220 Msg Number 002 : Msg Type 07145 : Group Count (?) 4 20332 00000 00000 02514 10214 36826 00893 22662
 Link ID 40988 Msg Number 002 : Msg Type 07145 : Group Count (?) 4 20333 00000 00000 02514 10214 36826 00893 22662
 Link ID 40988 Msg Number 002 : Msg Type 07145 : Group Count (?) 4 20333 00000 00000 02514 10214 36826 00893 22662
 Link ID 40988 Msg Number 002 : Msg Type 07145 : Group Count (?) 4 20333 00000 00000 02514 10214 36826 00893 22662
 Link ID 40972 Msg Number 002 : Msg Type 07145 : Group Count (?) 4 20333 00000 00000 02514 10214 36826 00893 22662
 Link ID 45212 Msg Number 002 : Msg Type 07145 : Group Count (?) 4 20333 00000 00000 06610 10214 36826 00893 22662
 Link ID 00014 Msg Number 001 : Msg Type 07144 : Group Count (?) 4 20332 00000 00000 00097 07027 20325 02486 11467
 Link ID 40988 Msg Number 002 : Msg Type 07145 : Group Count (?) 4 20333 00000 00000 02514 10214 36826 00893 22662

M42 logs

Frequency	Date	UTC	Remarks	Mode
10210	26-6	0606	Russian diplo. 11100 60102 78328 26083 05003	Baudot 75/500
18150	30-6	0640	Russian Gov/Intel.	RUS-ARQ 100/1000
16120.5	30-6	0757	Russian diplo	CROWD-36
7675	1-7	0557	Russian Gov/Intel.	RUS-ARQ 100/500
14655.5	1-7	1149	Russian diplo. i.p.	CROWD-36
16166.5	1-7	1152	Russian diplo. i.p.	CROWD-36
5343	2-7	1835	Russian Gov/Intel. Mark after 50 groups. CW op-chat after the messages.	Baudot 50/500
18738.5	3-7	1448	Russian diplo	CROWD-36
20229.5	4-7	0613	Russian Gov/Intel.	RUS-ARQ 100/2000
13373	5-7	0623	Russian diplo	CROWD-36
16329	5-7	1200	Russian diplo/intel.	FSK 200/500
14641	5-7	1210	Russian diplo/intel.	FSK 200/500
12187	5-7	1220	Russian diplo/intel.	FSK 200/500
11123	10-7	1900	Russian diplo/intel. 6 54	FSK 200/500
9117	10-7	1910	Russian diplo/intel. 6 54	FSK 200/500
6828	10-7	1920	Russian diplo/intel. 6 54	FSK 200/500
22901	12-7	0854	Russian diplo	CROWD-36
14655.5	12-7	1355	Russian diplo	CROWD-36
14630	12-7	1405	Russian diplo	CROWD-36
9140	14-7	0807	RUU70: Russian Government	FSK 100/500
16117	14-7	1003	Russian diplo	CROWD-36
14593	19-7	1113	Russian diplo/intel. Message on link 36882	FSK 200/1000
16336	20-7	1540	Russian diplo/intel. Messages on links 53269, 20501, 20543, 00001	FSK 200/1000
14878	21-7	0031	Russian diplo/intel. Msg on link 00117	FSK 200/500
12122	21-7	0700	Russian diplo	CROWD-36
11083	22-7	2322	Russian diplo/intel. Msg on links 40988, 63646	FSK 200/1000
9288	25-7	0649	Russian diplo	CROWD-36
11083	29-7	2321	Russian diplo/intel i.p. Messages on links 40988, 40972, 08332, 00012, 45212, 00014	FSK 200/1000

X06 logs

Frequency	Date	UTC	Remarks
19145	26-6	1530	Mazielka. Sequence: 164235
9288	27-6	0616	Mazielka. Sequence: 356412
16115	1-7	1056	Mazielka. Sequence: 215346
14501	6-7	1115	Mazielka. Sequence: 361245
12100	8-7	1047	Mazielka. Sequence: 612534
14675	8-7	1051	Mazielka. Sequence: 612534
16115	9-7	1459	Mazielka. Sequence: 215346
17470	9-7	1528	Mazielka. Sequence: 216354
16175	10-7	0726	Mazielka
13854	10-7	0751	Mazielka. Sequence: 521634
12213	11-7	0959	Mazielka. Sequence: 615243
14970	12-7	1408	Mazielka. Sequence: 216354
10127	14-7	0928	Mazielka. Sequence: 421635
16117	14-7	0939	Mazielka. Sequence: 463125
13517	14-7	0947	Mazielka. Sequence: 463125
12224	14-7	0954	Mazielka. Sequence: 463125
14683	14-7	1237	Mazielka. Sequence: 364152
11462	15-7	0753	Mazielka. Sequence: 165423
14358	15-7	0826	Mazielka. Sequence: 154263
18206	15-7	0912	Mazielka. Sequence: 246531
13961	15-7	1123	Mazielka. Sequence: 216354
16115	15-7	1131	Mazielka. Sequence: 215346
14446	17-7	0748	Mazielka. Sequence: 162543 //10508 kHz
10508	17-7	0749	Mazielka. Sequence: 162543 //14446 kHz
12122	21-7	0655	Mazielka. Sequence: 165324
11125	21-7	1905	Mazielka. Sequence: 216354
14419	24-7	0746	Mazielka. Sequence: 521634
14871	24-7	0746	Mazielka. Sequence: 521634
13510	25-7	0506	Mazielka. Sequence: 216435
9288	25-7	0627	Mazielka. Sequence: 356412
17463	25-7	1030	Mazielka. Sequence: 256134
16115	31-7	0730	Mazielka. Sequence: 215346



XP family

20513/18213/15913 kHz, 01-07, 0700/0720/0740 UTC, XPA2
03861 00001 00000 00140

11409/13509/14609 kHz, 05-07, 0600/0620/0640 UTC, XPA
456 456 000
09827 00001 00000

15967 kHz, 05-07, 2100 UTC, XPA2
04839 00001 00000 10140

14538/13538/12138 kHz, 06-07, 2100/2120/2140 UTC, XPA2

07951 00051 78824 64552 79721 51856 99495 15748 16666 39425
79849 48320 62409 50226 24250 33521 93177 71912 38471 27343
13582 78305 23663 83623 51462 32180 93508 20288 57237 24536
09858 26777 49195 32561 54004 16637 31742 97062 12699 24732
60107 06633 92292 67429 82612 61282 81927 84905 30198 66630
01457 41175 04003 45415

20513/18213/15913 kHz, 08-07, 0700/0720/0740 UTC, XPA2

802 008 01222 36113 46454 01368 85563 03678 00788 67303 04377
05443 28806 82830 26317 62811 87045 85764 00400 46267 40755
65177 33022 74526 0427 84647 03014 38182 65544 21838 20074 51402
33471 60025 07682 12662 51042 47718 55000 52436 76631 33603 61113
7740 85588 52433 07785 55524 47066 88150 80185 87732 23881 05685
61055 33077 43475 04162 872 77120 73558 62033 17611 21300 60461
00424 54043 20237 66353 50252 12127 6341 62551 45626 66153 81325
72258 51112 63572 21081 85477 08614 11303 1115 24221 50306 73174
1161 64816 06781 31444 05408 17558 52255 28801 20077 48151 74160
46660 36451 721 84422 66486 38733 33327 81223 31020 53675 77111
36784 30851 66333

11409/13509/14609 kHz, 09-07, 0600/0620/0640 UTC, XPA

456 456 456 1 456 456 456 1 456 456 456 1
08753 00207 74004 78284 11148 42048 06521 25884 23500 44164
91975 11873 43767 86949 80619 13381 96043 55629 98470 25362
28260 05543 30507 48747 49751 43248 51700 07020 07655 36846
10699 04734 96033 80919 73650 21306 45808 04492 64398 23203
87989 83129 30414 80328 28600 55972 01283 13219 81636 57278
61176 89007 86244 77288 96001 28553 91043 93576 01454 45681
33841 78246 34284 20825 29463 96420 25836 84758 19315 60463
84182 77297 01311 73773 15894 95806 37444 78566 05103 77683
22066 22728 50004 61872 86116 76809 30336 41097 43415 39209
55342 53338 45113 70328 26045 30534 87303 79846 52112 10501
05958 96893 58315 90891 74295 69445 98126 11682 17295 58076
96795 54433 36296 31811 60938 25239 93727 42902 05093 94948
83219 00815 07556 77011 06774 36546 65455 86883 77521 92172
30449 33924 94870 67751 68713 46383 03849 03082 15944 96249
36671 51684 99209 73743 73482 36274 89584 28324 31111 34993
11291 18054 45947 98300 21276 02901 70809 37925 48975 35480
92247 14927 80737 23580 69863 74590 12631 68600 26812 80960
52537 37489 36013 45568 97859 11518 78488 33089 56965 37886
42902 20398 82982 80587 87356 30545 12202 43093 71849 92287
39153 55669 29723 43393 76709 48545 66070 31190 21014 40034
79842 10962 44360 37656 06003 53719 95695 80769 84310 00161

12217 kHz, 12-07, 2140 UTC, XPA2

02569 00087 51111 34637 83362 75825 56797 17666 73767 03947
70732 84855 43332 46469 41749 55027 08430 87733 12428 65740
52708 70589 30318 63496 24229 67463 47810 15299 80216 12817
05659 93888 63163 98769 93947 28450 63319 03456 98288 83489
08502 97819 45262 66725 15501 50596 55128 01418 64204 55695
82733 27338 01649 03706 16576 87260 56528 44433 39745 31836
05349 96529 84713 14859 99115 98197 85274 12179 83069 35244
99875 15046 96116 25299 89476 00444 11154 48165 62564 33703
58809 57802 76285 61474 79116 97901 56047 21138 51386 12323

13538 kHz, 13-07, 2120 UTC, XPA2

04501 00001 00000 10140

20513/18213/15913 kHz, 15-07, 0700/0720/0740 UTC, XPA2

03825 00001 00000 10140

20513/18213/15913 kHz, 18-07, 0700/0720/0740 UTC, XPA2

20513/18213/15913 kHz, 22-07, 0700/0720/0740 UTC, XPA2

00689 00095 56599 46628 24867 34099 20202 83143 30761 10142
46338 34841 15605 48417 44800 87084 39975 68450 26969 18594
29447 47073 69600 17956 52882 12669 18077 30864 38118 66018
08886 48044 70065 11118 58746 78511 55681 16948 46633 22109
23771 74995 94528 04873 45161 06958 33551 17077 72866 22300
91400 96221 15051 76256 42273 07115 69430 87531 53939 61911
34486 66924 95966 04381 83279 48746 53991 15353 16472 12265
99643 82493 53409 08691315511 82146 66817 33772 29327 04905
36734 58815 28453 80360 70134 99251 94689 93641 14202 68072
74481 33360 57367 46999 77998 24285 10412 35272

14538/13528/12138 kHz, 20-07, 2100/2120/2140 UTC, XPA2

00448 00047 14724 70196 64815 28008 61429 76524 06994 79146
78743 96495 03863 24005 57722 65909 59710 33725 96703 67353
30976 58793 57940 06198 18043 93444 00155 88699 29801 83759
83047 53276 45570 37159 71805 60675 00046 27754 10189 03369
75109 31042 67310 71979 13162 00983 93512 87589 27859 54043

11409/13509/14609 kHz, 23-07, 0600/0620/0640 UTC, XPA

456 456 456 1

02649 00165 98063 29846 81186 11848 20203 06312 04924 25749
68322 70041 04817 06976 99551 56121 06292 92232 56387 55477
23723 49724 18014 66791 10906 18282 66531 13629 21556 03001
97413 31102 24042 74597 80339 95871 45991 14496 65880 21479
88582 79239 81814 98781 52145 58034 61799 63524 30732 63416
63566 81545 12799 60337 85533 01992 08892 59588 89878 40492
31945 29455 39827 92107
41995 38623 46954 91192 16525 87311 54635 32164 23852 01649
97170 10793 70915 46673 40424 08908 96656 89443 58248 17725
05812 22898 94385 53254 92572 96954 07931 54033 87087 79146
55123 58641 36894 33498 13165 34328 27693 05139 81389 49900
48877 72792 80339 10250 96605 27129 27810 26314 88580 04653
87140 56775 03098 49660 97010 06926 51342 91990 21378 99244
12915 24571 62598 93109
90358 46719 65331 81171 28170 55556 73371 12172 84662 32207
57889 22290 68656 34946 46886 17553 67672 37360 40251 82125
80320 01944 67857 92634 95564 81162 43232 22474 78165 88140
97699 33612 73598 40803 60914 38892 00567 15497 08289 44301

14538/13538/12138 kHz, 27-07, 2100 UTC, XPA2

08165 00001 00000 10140

11409/13509/14609 kHz, 30-07, 0600/0620/0640 UTC, XPA

456 456 456 000

05631 00001 00000 10140

Greek intelligence
SIGINT station at
Halkoutsi



UTILITY ROUND-UP



Pirates

An unid was logged on 7999.8 kHz sending nothing but “QRP” for hours in a row. The same beacon has been on the air a couple of times around 8000 kHz during the past year. It is probably operated by the same person who also runs the PRV beacon. Location: Preveza, Greece.

7999.8 kHz, 12-07, 1908 UTC: QRP

7999.8 kHz, 12-07, 2103 UTC: QRP

7999.8 kHz, 13-07, 1804 UTC: QRP



Unid stations

Nick Rumple found an unid marker/beacon on 6815 kHz. It seems to be transmitting continuously and sends the following callsign in very slow morse: “PPKD”

6815 kHz, 12-04, 0240 UTC: PPKD

6815 kHz, 05-07, 0922 UTC: PPKD

6815 kHz, 06-07, 0750 UTC: PPKD



Armenian Air Defense

Copied on:

03-07, 2104 UTC

08-07, 1718 UTC

14-07, 1633 UTC

RUSSIAN MILITARY TRANSCRIPTS

Below a selection of the Russian military logs submitted by Topol, Andre, Daniel, JPL, Wolfgang, Danix, Antonio, Tom



M32

Russian/CIS Military CW Stations

4230 kHz, 04-07, 1546 UTC

II3B DE TABE K

3MIB

5VV

LTBZ DE TABE K

.... DE LTDZ K

QSA 2 K. QSA 2 K

AR AR

II3B DE TABE K

3MIB DE TABE K

11467 kHz, 06-07

2030 T600-data + CW: RDL RDL RDL 39 0 14 45753 k

2035 T600-data + CW: 52945 13169 52945 13169 52945 13169 k

5458 kHz, 09-07, 1649 UTC

DKLE DE QPKW R 902? K

RPT K RPT K

DKLE DE QPKW R 902 ? K

QTC K

QPKW 387 32 9 2025 387 =

185 = into 5LGs

6922 kHz, 10-07, 0214 UTC

WLQY DE H3QJ K

R K

9GDS DE H3QJ K

R K

ALVH DE H3QJ K

R K

16223 kHz, 13-07, 1131 UTC

14411 kHz, 13-07, 1136 UTC

14411 kHz, 13-07, 1142 UTC

9288 kHz, 14-07, 2055 UTC

SGEU SGEU 56125 52426 INOKHOD' 1644 5312 K

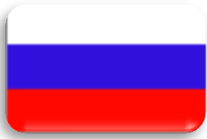
...7141 7489 K

VEGI VEGI 14682 77724 EKLETIK 3916 2974 K

CIAZ CIAZ CIAZ DE 7Y5R 7Y5R QTC 032 19 15 0050 032 = 485 = M M M M M GYBSF RFTYF

11116 kHz, 24-07, 0711 UTC
 11116 kHz, 24-07, 1030 UTC
 7976 kHz, 25-07, 1413 UTC
 13396 kHz, 25-07, 1259 UTC

WAPRV WNTUB WAPRV WNTUB WAPRV WNTUB
 XXX XXX LR43 LR43 00000 TEH PROWERKA 11 11 22 22 TEHNIESKA PROWERKA 592 K
 XXX XXX LR43 TEHNIESKA PROWERKA 540 K
 LDBO QTC 673 3_ 25 _1__ 673 = 511 = _öYKL ODII_ YVüFV ... (unreadable) ...
 PLOX (CQ) QTC ZKV AR. X7IS 760 23 25 1648 760 = ZKV 778 = MMMMM GYBSF FSüWY ...
 ChYKKM TZCWI WTPäO 572 K. Requests QSL from V9LN & VQN5.



M32a
Russian Navy
Voyenno-Morskoy Flot Rossii

8345 kHz, 01-07

0023 VVV RCV DE RCIV QSA? QTC
 0024 RCIV 147 ?? 1 0415 147 = ??? RJH45 = 01001 99456 10??? 22263
 1751 VVV RCV DE RBDE QSA?
 1752 RCV DE RFH70 [ERROR] RCV DE RBDE QSA?
 1753 RCV DE RBDE QYT4 QSA? (further callsign mistakes throughout QYT4 process)
 1806 RCV DE RBDE QYT4 QLS
 1831 RBDE OK QYT4 QWH 6238
 1832 RCV DE RBDE QYT4 QSX 9248
 1841 RCV DE RBDE QYT4 QWH 10984
 1845 RCV DE RBDE QYT4 QSX 6912/10984
 1851 RCV DE RBDE QYT4 10984 QCM

12464 kHz, 01-07

1403 VVV RCV DE RKB91 QSA? QTC
 1404 RKB91 sends 11111 message FOR RMP but too weak to copy]

12464 kHz, 02-07

0911 RMRV (in progress) ... 1305 338 / SML / FOR RIT RIW 02091 99472 70021 22200
 47.2N 02.1E Hove to <https://goo.gl/maps/d2NII>
 0922 RIW DE RMRV QRS
 0923 RMRV 338 16 2 07 1305 338 / SML / FOR RIT RIW 02091 99472 70021 22200 (repeats for 50 mins, different trainees)
 1404 VVV RCV DE RKB91 QSA? QTC
 1406 VVV RIW DE RMRV QSA? QTC
 1410 VVV RIW DE RMRV QSA? QTC
 1546 VVV RIW DE RMRV QSA? QTC
 1623 VVV RIW DE RMRV QSA? QTC
 1625 RMRV QRV

8345 kHz, 02-07

2030 RCIV 711 16 3 0025 711 = FOR RJE73 RJH45 = 02201 99314 10255 22222
 31.4N 25.5E heading E @ 6-10kts (not 100% sure of position as very weak and broken) <https://goo.gl/maps/5P9i3>

Note:

RMRV is Smolny Class Training ship "Smolny"

12464 kHz, 03-07

1406 VVV RCV DE RKB91 QSA? QTC
 1407 RKB91 779 23 3 1800 779 = SML FOR RMP = 11111 88608 37502 03020 = + RKB91
 1629 VVV RIW DE RMRV QSA?
 1630 VVV RCV DE RBDE QSA?
 1631 RMRV QYT4 QSX 18920
 1633 RCV DE RBDE QYT4 WRK
 1634 RCV DE RBDE QYT4 QSX 10954
 1637 RMRV RPT QRS
 1644 RMRV OK QSX 18920/17024 QWH 8330/16603 FM RAA

12464 kHz, 04-07

0629 RIW DE RMRV
 0632 RMRV OK QYT4 QWH 15546
 0643 RMRV QYT4 QMO
 1255 RIW DE RCRE OK QYT4 SK FM RAA
 1259 RIW DE RCRE OK QSU1 QSX 13086 QWH 12260

12464 kHz, 06-07

1409 VVV RCV DE RKB91 QSA? QTC
 1410 RKB91 512 18 6 1800 512 = SML FOR RMP = 11111..... (too faint to copy)
 1559 VVV RIW DE RMRV QSA?
 1600 RMRV QYT4 QSX 18920
 1613 RMRV OK QYT4 QSX 18920/17024 QWH 16603 FM RAA
 1622 RIW DE RMRV QYT4 QMO
 1626 RIW DE RMRV QYT4 QWH 15546
 1633 RIW DE RMRV RPT QLS
 1650 RCV DE RFH70
 1651 RCV DE RFH70 QYT4 QLS

12464 kHz, 09-07

1407 VVV RCV DE RKB91 QSA? QTC
 1409 RKB91 823 18 9 1800 823 = SML FOR RMP = 11111 ?2124 3500? 09015 = + RKB91
 1549 VVV RIW DE RMRV QSA?
 1551 RMRV QYT4 QSX 18920
 1557 RMRV OK QYT4 QSX 1890(sic) QWH 12374 FM RAA
 1600 RMRV OK QYT4 QSX 18920 QWH 12374 FM RAA
 1624 RMRV OK QYT4 QSX 18920/170?? (faded)

5343 kHz, 09-07, 2138 UTC RJP98 DE RIT QSA. QSL 177 K
 6989 kHz, 09-07, 2059 UTC RAL2 radio check with RIB2, RGH2, RMW2, RHQ2, RBL66
 8345 kHz, 09-07, 2120 UTC RGR35 VA Kulakov. RCV DE RGR35 QSA? K
 8345 kHz, 09-07, 2137 UTC RIT DE RJP98 QSA? K QSA2 QSL 177 ? K
 12464 kHz, 09-07, 1017 UTC RFH70 DG Smetlivyj. RCV DE RFH70 QSA? K
 12464 kHz, 09-07, 1719 UTC RMRV mv Smolny. QRS RPT K OK QYT4 15463 K OK QWH 16599 K
 12464 kHz, 09-07, 2117 UTC RGR35 VA Kulakov. RCV DE RGR35 QSA? K
 13975 kHz, 09-07, 0801 UTC VVV RAL2 DE RHW2 QSA3 ? K QSA2 QRU SK QRU SK

5855 kHz, 10-07, 0220 UTC

RIC87 RIC87 RIC87 DE RCV RCV QTC 163 8 9 1040 163 =
 PRIP NOWOROSSIIJSK 208 OTM 188/14 OTM 'ETOT NR AR
 RIC87 RIC87 RIC87 DE RCV RCV QTC 250 57 8 1910 250 =
 PRIP NOWOROSSIIJSK 206 KARTA 32103 ERNOE MORE STRELXBY ARTILLERIJSKIE 14 PO 19 I'ULX 0400 DO 1600 PLAWANIE
 WREMENNO OPASNO RAJONE 44/41 S 032/12 W 44/48 S 032/08 W 45/00 S 032/16W 44/54 S 032/33 W 44/42 S 032/49 W
 44/37 S 032/40 W OTM TOT NR 19 1700 I'ULX =
 RIC87 RIC87 RIC87 DE RCV RCV QTC 250 57 8 1910 250 =

12753 kHz, 13-07, 1204 UTC RMBB DE RCV QSA3 K. RMBB DE RCV QTC? K
 13044 kHz, 05-07, 1157 UTC RMBB DE RCV QRR3 QSX 12444 K
 13044 kHz, 05-07, 1157 UTC RCV DE RMBB QRR3
 12464 kHz, 21-07, RCV DE RMBB 818 196 21 1455 838 = RKT = PIVSF ÜAWG OJBZD
 12464 kHz, 21-07, 1405 UTC RCV DE RKB91 844 1. 21 1800 844 = SML FOR RMP = 11111



M32b
Russian Naval Aviation
Aviatsiya Voenno-morskogo Flota Rossii

8816 kHz, 07-07

0611 RJF94 RJC38 DE 08011 QTO 0607 QRD XRRT XRKE QRE 0630 QBD 15000 K QQM XRRT 0624 SK
 0913 RJF94 RJC38 DE 08011 QTO 0903 QRD XLWF XRRT QRE 1200 QBD 14000 K - QTH 5042 4038 QTR 1003 QBG 7300 K -
 QTH 5513 3721 QTR 1105 QBG 7300 K - QQM XLWF 1201 SK
 1345 RJF94 RJC38 DE 08011 QTO 1335 QRD XLMV XLWF QRE 1555 QBD 12500 K - QTH 6305 3551 QTR 1436 QBK 6700 K -
 QAY XLMG 1538 QBG 6700 K - QQM XLMV 1602 SK

8816 kHz, 11-07

0914 RJF94 RJC38 DE 26927 QTO 0905 QRD XLLP XLMV QBD 5000 QRE 1215 K QQL ULPE 1020 QBG 5800 K QTH 6112 3223
 QTR 1120 QRE XLLP 1200 K QQM XLLP 1205 SK
 1344 RJF94 RJC38 DE 26927 QTO 1330 QRD XLAA XLLP QBD 5100 QRE 1530 K QQL XLPB 1425 QBD 4300 K QTH 6340 3713
 QTR 1505 QRE XLAA 1545 K QQM XLAA 1541 SK
 1642 RJF94 RJC38 DE 26927 QTO 1635 QRD XLMV XLAA QBD 5200 QRE 1825 K QTH 6646 3750 QTR 1725 QRE XLMV 1820 K
 QQM XLMV 1827 SK

8816 kHz, 21-07

0652 RJC38 RJF94 DE 26920 QTO 0620 QRD XUMO XLMV QRE 1020 QBD 5200 K - QQL XLMF 0712 QBG 5800 K - QQL UPLE
 0757 QBD 4000 K - QTH 6117 3700 QTR 0855 QBD 4200 K - QTH 5842 3759 QTR 0937 QBD 2400 QBG 5500 QRE XUMO
 1030 K - QQM XUMO 1030 SK
 0734 RJC38 RJF94 DE 08011 QTO 0728 QRD XRKE XLMV QRE 1235 QBD 19000 K - QTH 6456 3429 QTR 0826 QBG 6700 K -
 QTH 6001 3745 QTR 0925 QBG 7600 K - QTH 5414 3812 QTR 1030 QBG 7000 QBD 12000 K - QTH 4925 4118 QTR 1129
 QBG 7600 QBD 10000 K
 1248 RJC38 RJF94 DE 26920 QTO 1237 QRD XUOM XUMO QRE 1355 QBD 5000 K - QQM XUOM 1355 SK
 1505 RJC38 RJF94 DE 08011 QTO 1450 QRD XLLP XRKE QRE 1810 QBD 19000 K - QTH 4949 4105 QTR 1555 QBG 7900 K - QTH
 5333 3702 QTR 1654 QBG 7300 K - QRE XLLP 1835 K - QTH 5809 3421 QTR 1755 QBK 7300 QBD 12300 K - QQM XLLP
 1831 SK
 1642 RJC38 RJF94 DE 26920 QTO 1630 QRD XUMO XUOM QRE 1750 QBD 3000 K - QQM XUMO 1747 SK

8816 kHz, 25-07, 0811 UTC

RJF94 RJC38 DE 75106 QTO 0600 QRD XLMV XRKE QBD 18000 QRE 1130 K - QTH 4950 4105 QTR 0658 QBD 15100 QBG 6700 K -
 QTH 5414 3854 QTR 0804 QBD 12900 K - QTH 5842 3804 QTR 0906 QBD 11200 QBG 7000 K - QAY XLPB 1000 QBD 8000 QBG
 6700 K - QTH - 6622 3334 QTR 100 QBD 7200 QRE XLMV 1145 K - QQM XLMV 1214 SK



EMERGENCY ACTION MESSAGES & SKYKING MESSAGES

Contributions from Ary, Dave, Ryan, Les and a huge amount from von Ansbach.

Frequencies: 6712, 8892 kHz

22 June

0300 201 chr. EAM: XOMOV3 VF3IOMK66TZ5LW3YAUUVNLHWDYW2VA2XVLBB7BEE3GGGGQH87VD4ZR
 DPC22N2KUUTTTTZR37THZSSHYLNNQZ4NNYYYYJQC63VLY345HHFOEHA AAAAOW4W7DVPCJTTMM
 PCCG4EEEEJI7WCPLVZRQNKKURGVKPPPPFOEKHTLUINGNAAEPGZIOOOOFC4ZXTAA36

10 July

1530 EAM 30 chr QZ776SF7X7O5S3YG3R5TZCIIWB3ZNP
 1534 EAM 30 chr QZJ6OG4U66VOFKR7BMT6GP2X4YGXXO
 1548 EAM 30 chr PEKVK6MULQOFWHYR7QXKKJ4FVGC7I
 1555 EAM 30 chr QZJPO5GRXLLLEMI7ZZ3IDGBPG44HXO

1600 EAM 30 chr QZJPO5GRXLLLEMI7ZZ3IDGBPG44HXO (repeat)
 1602 EAM 30 chr QZJ6OG4U66VOFKR7BMT6GP2X4YGXXO (repeat)
 1604 EAM 30 chr QZQPGVW2IA5WV2W32AUXUOYPEQ2TP7
 1624 EAM 30 chr QZYUXICH24WVYCH4KWX2RMASF5L4NI
 1630 EAM 30 chr QZYUXICH24WVYCH4KWX2RMASF5L4NI (repeat)
 1630 EAM 30 chr QZQPGVW2IA5WV2W32AUXUOYPEQ2TP7 (repeat)
 1630 EAM 30 chr QZJPO5GRXLLLEMI7ZZ3IDGBPG44HXO (repeat)
 1722 Skyking O6E 22 RE
 1920 EAM 30 chr PEGFOPJRWL2MCG5BSAHFPFWJVACRO
 1934 EAM 30 chr QZ3MILI2BRY2724FX7JO7BZETP6HRE
 1938 EAM 30 chr QZ3WVCT3MXKX5C4EU2JARCBGP4WWL5
 1946 EAM 30 chr QZWFRMZ47CNPONPJ7SMIPQ7BSHD3QN
 1954 Skyking CKW 54 PI
 2000 EAM 30 chr QZ3WVCT3MXKX5C4EU2JARCBGP4WWL5 (repeat)
 2003 EAM 30 chr QZ3WVCT3MXKX5C4EU2JARCBGP4WWL5 (repeat)
 2005 EAM 30 chr QZTOU7G3XNABTJYW64KUBAUZX3C6A5

15 July

1106 Skyking 44L 6 IW
 1333 EAM 30 chr QZHM7FN2EKNULG6ZD7JHR676N566W
 1334 EAM 30 chr QZDGI3KC44VFCHARASHKYNCFZ555PQ
 1400 EAM 30 chr QZHM7FN2EKNULG6ZD7JHR676N566W (repeat)
 1402 EAM 30 chr QZDGI3KC44VFCHARASHKYNCFZ555PQ (repeat)
 1430 EAM 30 chr QZHM7FN2EKNULG6ZD7JHR676N566W (repeat) DISREGARD
 1448 EAM 30 chr PE6MSICJ2AQQZTAJU7SMZ3OZRGGAIC
 1507 EAM 56 chr PEN6B4BEQHESKJ2OPECNZATOQ6NLNIZIUTXQ5LOC5SOJ4BQVSJQFRFD
 1510 EAM 30 chr PEGWATNBBDX36JPLLIH3Z3T44BEUK
 1512 EAM 30 chr PERIJ3RAAPB3STXANWGTGAFFSF2EXA
 1530 EAM 56 chr PEN6B4BEQHESKJ2OPECNZATOQ6NLNIZIUTXQ5LOC5SOJ4BQVSJQFRFD (repeat)
 1538 EAM 30 chr QZIE7XNVUW5REIONMCMVB7AQXG3TEV
 1540 EAM 30 chr QZOJF5LNBFI5T73S6OPWEFP5SIIRPV
 1600 EAM 30 chr QZOJF5LNBFI5T73S6OPWEFP5SIIRPV (repeat)
 1602 EAM 30 chr QZIE7XNVUW5REIONMCMVB7AQXG3TEV (repeat)
 1603 EAM 30 chr QZTWZSUOOMFERAHVUJBXRZZZ3535K
 1703 EAM 30 chr for DENBY 85, for TESS 85 PERDYVC3P5ICHFUHH6ZLAMO25OIH7
 1733 EAM 30 chr QZ6VRIXAL5RSNIV6KWIR2TXEUB3CQJ
 1949 EAM 30 chr QZAS27BF7VJZGMYCFKGCOTK5JAVTL
 2007 EAM 30 chr QZ5NKZP54CSDTWOES3JSJAAYV42RQ3
 2013 EAM 30 chr QZELQ7SC4K2UKGH3A7J5LDYM5VMLYO
 2025 EAM 30 chr QZNQDXREMFVUK2NYRWO6OLAJVW4QWW
 2030 EAM 30 chr QZNQDXREMFVUK2NYRWO6OLAJVW4QWW (repeat)
 2058 Skyking M4A 58 LL
 2125 EAM 30 chr QZM4PP6BG643W5SOINNEHF63OWJBUH
 2127 EAM 30 chr QZFWRXQHIF65GEPEV73NR4WZSMHLCY
 2130 EAM 30 chr QZ2UKNSFKLCO3EDFAQJYNPNWEC7LYY
 2134 EAM 30 chr QZFWRXQHIF65GEPEV73NR4WZSMHLCY (repeat)
 2136 EAM 30 chr QZM4PP6BG643W5SOINNEHF63OWJBUH (repeat)
 2143 Skyking W2J 43 IB
 2200 EAM 30 chr QZ2UKNSFKLCO3EDFAQJYNPNWEC7LYY (repeat)
 2202 EAM 30 chr QZFWRXQHIF65GEPEV73NR4WZSMHLCY (repeat)
 2204 EAM 30 chr QZM4PP6BG643W5SOINNEHF63OWJBUH (repeat)

16 July

1147 Skyking CMR 47 AY
 1200 Skyking S3S 0 VG
 1201 Skyking 6UJ 0 VG
 1627 Skyking S42 23 TB
 2013 Skyking AGG 13 VC
 2021 Skyking UUP 21 YR
 2059 EAM 30 chr PEIIH2UED76XR25RFQ7G2NBBXMBHHS

2122 Skyking 6UJ 22 TA

17 July

0907 Skyking I34 8 ZK
1038 Skyking C3D 38 LV
1221 EAM 30 chr QZSA6CECIRWZ4HX6QOLJORY3FJOZWJ
1256 EAM 30 chr QZ6J6TB7MNE7UT3RUFHWTU5OSC3LJE
1259 EAM 30 chr QZ6J6TB7MNE7UT3RUFHWTU5OSC3LJE (repeat)
1330 EAM 30 chr QZ6J6TB7MNE7UT3RUFHWTU5OSC3LJE (repeat)
1359 EAM 30 chr QZP6WVHJGZC2MKGZBLTEIV3FQ4P4EY
1403 EAM 30 chr QZ6J6TB7MNE7UT3RUFHWTU5OSC3LJE (repeat)
1457 EAM 30 chr for REV OV PEG4HPDBVCDVAFR6V4FJ3HBO4TQV
1502 EAM 30 chr for BRAVERY PET44NVQYOU46LUVUVK5VFPDMBG3MX
1504 EAM 30 chr for REV OV PEG4HPDBVCDVAFR6V4FJ3HBO4TQV (repeat)
1518 Skyking YAA 18 RY
1518 Skyking KFN 18 RY
1545 EAM 44 chr PEVSE2SSQEKH65PYSBXCT7V6FJDV6FZPBEOZJGB6SSBB
1549 EAM 30 chr PEHOJKGJ5XZCU4CTAP43ITCUVOVMND
1557 EAM 30 chr QZIVKVADNBMYITUIMEPQNKBTYQFLLL
1600 EAM 30 chr QZIVKVADNBMYITUIMEPQNKBTYQFLLL (repeat)
1618 EAM 30 chr QZKARX6W2ZCNZABY57BM676LMESPEZ
1622 EAM 30 chr QZV7GMJH76HYEFKQ6TXNBOSGFDPRJF
1624 EAM 30 chr QZLERLG3SXXFB7RED2T2DEBRPYTAZY
1628 EAM 30 chr QZPOCFPJWKNCSBDBSYOXM3SHUD4UD
1630 EAM 30 chr QZV7GMJH76HYEFKQ6TXNBOSGFDPRJF (repeat)
1632 EAM 30 chr QZIVKVADNBMYITUIMEPQNKBTYQFLLL (repeat)
1648 EAM 30 chr QZSBX67Z54WJ5SH6N6MGYWGMBC44Y3
1701 EAM 30 chr QZV7GMJH76HYEFKQ6TXNBOSGFDPRJF (repeat)
1703 EAM 30 chr QZIVKVADNBMYITUIMEPQNKBTYQFLLL (repeat)
1709 EAM 30 chr QZTECNPN7QOBEGKJWZ7GXEML3OZ7ZK
1711 Skyking 7TJ 9 HT
1724 EAM 30 chr QZTECNPN7QOBEGKJWZ7GXEML3OZ7ZK (repeat)
1733 EAM 30 chr QZYYK7V7EQVXV5QTM6LVTW6CZ7342Z
1735 EAM 30 chr QZTECNPN7QOBEGKJWZ7GXEML3OZ7ZK (repeat)
1737 EAM 30 chr QZV7GMJH76HYEFKQ6TXNBOSGFDPRJF (repeat)
1739 EAM 30 chr QZIVKVADNBMYITUIMEPQNKBTYQFLLL (repeat)
1742 EAM 30 chr QZYYK7V7EQVXV5QTM6LVTW6CZ7342Z (repeat)
1750 EAM 30 chr QZDE6ALSP2B6IUTJXTNN6A2JYNMR26
1801 EAM 30 chr QZDE6ALSP2B6IUTJXTNN6A2JYNMR26 (repeat)
1803 EAM 30 chr QZYYK7V7EQVXV5QTM6LVTW6CZ7342Z (repeat)
1805 EAM 30 chr QZOPDOS4XFXIGI6EGFGLZHIZV472Z
2000 Skyking QPZ 0 CX
2047 EAM 30 chr for HAZEL 7 PEUM2K PEUM2KFN3DQ7DFTRKPR5CKJHFXO7RK
2114 Skyking MO6 14 BX
2117 EAM 30 chr QZWHLTZ6JPNNE5ZMZJLI4WWIKP26

18 July

0004 Skyking CRY 4 UC
0007 Skyking DY3 7 KU
0019 EAM 30 chr QZJWI72STOLLZD3WPUEZR4G34GUWKX
0853 Skyking N2Y 53 HD
0853 Skyking R3F 53 HD
0935 Skyking PTG 35 IW
0936 Skyking PTG 36 DH
1232 Skyking PTG 32 BM
1233 Skyking BMO 32 BM
1243 Skyking HSZ 43 ZL
1303 EAM 30 chr QZTJQL7GTZYA47SLEX7653RH4MGH6G
1840 Skyking G25 40 XB
1951 EAM 30 chr QZWVDGDZJ36MQ3U47VSXFIO2YKQV42

1959 EAM 30 chr QZWVDGDZJ36MQ3U47VSXFIO2YKQV42 (repeat)
 2026 Skyking FUX 26 BQ
 2030 EAM 30 chr QZWVDGDZJ36MQ3U47VSXFIO2YKQV42 (repeat)
 2035 EAM 30 chr QZ35G6P5235LTIFNSZDPME5KC5HPWJ
 2103 EAM 30 chr QZWVDGDZJ36MQ3U47VSXFIO2YKQV42 (repeat)
 2109 EAM 30 chr QZTTYJSX6MQMBQEL4AHXWTVLQPCI2N
 2111 EAM 30 chr QZB37KJ34JTDYFUBUB7PFO54BHR36M
 2115 EAM 30 chr QZSSBYBZJ66O25G4AYJVAGLTJE6K2P
 2117 EAM 30 chr QZTHALUDIX65ABBB75EVL7W6RDHIU
 2132 EAM 30 chr QZTHALUDIX65ABBB75EVL7W6RDHIU (repeat)
 2136 Skyking BMO 35 IW
 2240 EAM 30 chr QZMH3QAMY2ZQE3F2ZWMUJHF7QOVGBY
 2254 EAM 30 chr QZACXYOLHMTXVQ56X5Y3WJ7ZA5UPK7
 2257 EAM 30 chr QZ2HVCXFQNL7LWXC7NPS6IAFIFDOD
 2259 EAM 30 chr QZ2HVCXFQNL7LWXC7NPS6IAFIFDOD (repeat)
 2309 EAM 30 chr QZUUYMIPSGJMROW4LVMTFZ6QSQSW2E

19 July

1222 Skyking ZZ2 22 GX
 1431 EAM 30 chr for REGION VGYUOL VGYUOLIBMF42PKLIPBJ64FRS4WMDM4
 1435 EAM 30 chr QZT4QA6Q6JIPTKUFR4IS2T2OXKP62
 1438 EAM 30 chr QZB6EG4EGBG3BIM3QTWUCFGGFWTNMX
 1441 EAM 30 chr VG44H5OWPU3ZI42FZKPB24G2FIKVRH
 1455 EAM 30 chr QZ5EERWPP25W32RG7WMVPG3BCN3DPA
 1503 EAM 30 chr QZ5EERWPP25W32RG7WMVPG3BCN3DPA (repeat)
 1519 EAM 30 chr QZ5EERWPP25W32RG7WMVPG3BCN3DPA (repeat)
 1521 EAM 30 chr QZPKHSPHDSLUXLXQWVKIJUZVBNVAJF
 1557 EAM 30 chr VGC7DOVAV2VYCVHLANEPPI5RWPKNJ
 1602 EAM 30 chr for SHEELAYLA VGTYYHNOTZFGG3B5WVW2IUN4WWULNH
 1623 EAM 30 chr for WAGES VGVGQD VGVGQDWQ5XF7COGKNAP6ND67D2N6HU
 1630 EAM 30 chr QZ2FQJD5BW2UR66ZWCQO2EXFO745N
 1641 EAM 30 chr QZSLM6QVOPAY66OKOI7H6VYNSWLJ3S
 1653 EAM 30 chr QZTVUHASOF7GDR4YKGNAWC4QQ4UUL4
 1757 Skyking LTL 57 II
 1825 Skyking LWN 25 PR
 2015 EAM 30 chr QZRURMBYLX5O6XHWI4XLKK4GAGNVTI
 2132 Skyking TI2 32 EK
 2317 EAM 30 chr QZ26DBULLOFUH6U7DBHKG4CPVSKVOA
 2322 EAM 30 chr QZRANUG347VD3L2WZFZKNDLKBLAINH
 2331 EAM 30 chr QZZPRBWHX5BEVU5VSTKOZC4KZXSHBM
 2334 EAM 30 chr QZNLHU3JOGPQ76ECSG4ZL5K4V24KWD

20 July

20-7-2014 0854 Skyking WGZ 54 FE
 0901 Skyking MBM 1 MD
 1108 Skyking UCY 7 UE
 1147 EAM 30 chr for DIVY VGQCSTVA6NFYGG2ZFCETHGFGEQVASSJT
 1401 EAM 30 chr QZI6RPR6EKKKI6ECVUANQNY5BQVW2Z
 1435 EAM 30 chr QZGLXWMA4KYZFJI7O5M4WG45RDE37Y
 1501 EAM 30 chr QZM2LHU2RH2QO2N37MLKD627P7SH5V
 1503 EAM 30 chr QZ4FO54CY3HKUXKBTG2USI7NLKYIQX
 1505 EAM 30 chr QZKXJKPTQRJSBCGB34I7XTE53ILABV
 1507 EAM 30 chr QZ3O2GATBYHV6BMP5ANK5JXBBBT6OK
 1513 Skyking LI6 13 XE
 1535 EAM 30 chr VGPTRKRR2S3PWZHSN2U56AAIVCFTV
 1545 EAM 30 chr VGYB7QIQCYG2YBNT2V6KHB2ULBT3HV
 1558 EAM 30 chr QZSVZCVJVOFU5ZPYIFOLSV7ITHA2MJ
 1602 EAM 30 chr QZGHAVIN6OE34WJA6ZF2XJAA6D6YTA
 1630 EAM 30 chr QZGHAVIN6OE34WJA6ZF2XJAA6D6YTA (repeat)
 1632 EAM 30 chr QZSVZCVJVOFU5ZPYIFOLSV7ITHA2MJ (repeat)

1639 EAM 30 chr QZYR36SBT553VRZJCXFW2RC5MLWHZF
 1645 EAM 30 chr QZMJPGYBW2Z7Z3C5JVEYACNMIMLHRM
 1648 EAM 30 chr QZDLYFMCBGK7TV3DTPGI2QG5N75E4T
 1729 Skyking ODN 29 CC
 1804 Skyking OQC 4 TS
 1936 EAM 30 chr TUPMGOAHBRQORYISVXJON47GQDC3NU
 2001 EAM 30 chr TUST6NINM7R6C72OQ6V3PSCPTBK6U5
 2013 EAM 30 chr TUZMTYFWERSVUBET7CFLTLTWUXSEUF
 2033 Skyking QQD 33 WH
 2101 EAM 30 chr TUBJEFKUXOGNXUACT44TWFH3Q6QOJH
 2257 EAM 30 chr TUXPJXIMVWCUOQZUMN6QKSXO76DRME
 2300 EAM 30 chr TUXPJXIMVWCUOQZUMN6QKSXO76DRME (repeat)

21 July

0001 Skyking LYF 1 QS
 0855 Skyking HIT 55 KE
 1109 Skyking MMZ 9 DY
 1213 Skyking U5X 13 IV
 1213 Skyking NG5 13 IV
 1342 Skyking 3QJ 42 ZB
 1344 Skyking PX3 44 WH
 1418 EAM 30 chr for HEIN VGR4A5 VGR4A5AMAPZKA4SAUGZB3CEA44JZRQ
 1447 EAM 30 chr TU3XUGNWTBN43BFW7HEAQI4LNU5QKO
 1541 EAM 30 chr TUACTION3SRVZL7RBM564WDPLWNDTRML
 1636 EAM 30 chr TUUO2WAFCGVFGCEZKKA4CPQ756DRJX
 1656 Skyking VPL 56 QP
 1701 EAM 30 chr TUFFWIZI7BDN2KN3V6YSWZI3GOI72S
 1750 EAM 30 chr TUVBNKHCGNLXTFDXE7VZUFKNJOS7NZ
 1849 EAM 30 chr TU2D6D2Z5LACE5UDTIP446DZWG73LM
 1945 Skyking 72U 45 WH
 2108 Skyking NG5 8 RM
 2123 EAM 30 chr TUBWTS4RJVKXJBWEIPAL66CR5GGWZP
 2133 EAM 30 chr TUFU2YBEO26EXFRC7BVVJ5IBF3PGTF
 2310 EAM 30 chr TUDHV266UJZ7VKHCJKMD52IMG62MNE

22 July

0634 Skyking A5Z 34 YH
 0733 Skyking TBC 33 UP
 0828 Skyking QV2 28 BS
 1109 Skyking C4W 9 AX
 1516 Skyking D44 16 EV
 1559 EAM 30 chr for LUCKY PLAYER, for NEWSPAPER VGFR3XN7OIU7OKBG5ITWIGF2LA6KQH
 1634 EAM 30 chr TUW6QZZ2EETKNAPWV6YXA4XZEGKTT
 1638 EAM 30 chr TUXSGJSSYCDZ4ZH5PUCTRIYZ4PDH2V
 1641 EAM 30 chr TUBYN7WVG4O5APLHDMBLYJA3DQAFN
 1701 EAM 30 chr TUWXGFGGEJTBXKLFLDMWPSXAH2FAA
 1705 EAM 30 chr TUEMBCTZ7PIBQ66EDCDOCONQNNC4SZ
 1707 EAM 30 chr TUBYN7WVG4O5APLHDMBLYJA3DQAFN (repeat)
 1709 EAM 30 chr TUXSGJSSYCDZ4ZH5PUCTRIYZ4PDH2V (repeat)
 1711 EAM 30 chr TUW6QZZ2EETKNAPWV6YXA4XZEGKTT (repeat)
 1900 Skyking KLJ 0 QX
 1900 Skyking ALW 0 QX
 2023 Skyking MKN 23 UU
 2111 EAM 30 chr TUD22OGGGVTOYMGBWNBQ6G62VA3W2L
 2328 EAM 30 chr TU5EJRDOYLTKARPF7PY2SVAH67U4L
 2332 EAM 30 chr TUHOMPG3SQ3XSEGVTPRTYEELHC3RTV
 2335 EAM 30 chr TUHWFPOXHJT7MKW3HSKS3WFFY2A5BBZ

23 July

0004 Skyking 4TJ 4 WJ
0140 EAM 30 chr TUZDDCULSHXWTCY2Y5HSMJDGCTURD
0239 Skyking FEJ 39 JX
0320 EAM 30 chr TUZ4PIYEUBX65U2S567HTT27MC2KLX
0330 EAM 30 chr TUZ4PIYEUBX65U2S567HTT27MC2KLX (repeat)
0401 EAM 30 chr TUZ4PIYEUBX65U2S567HTT27MC2KLX (repeat)
0410 EAM 30 chr TUWS2TSCATBHGDH53H4DT4OIZWTVYH
0415 EAM 30 chr TUUHJS3N3WPJUKGADSOSJAVVJ5S5CK
0421 EAM 30 chr TUI7HZ2GW53KZVIWO6EZGYMI7YPA6W
0430 EAM 30 chr TU7YW57OOVIE6DVZZZOWRHIYS6CXRK
0431 EAM 30 chr TUI7HZ2GW53KZVIWO6EZGYMI7YPA6W (repeat)
0433 EAM 30 chr TUJWHMUE5XE3S3VFY2E3PXN42M7FEP
0435 EAM 30 chr TUUHJS3N3WPJUKGADSOSJAVVJ5S5CK (repeat)
0437 EAM 30 chr TUZ4PIYEUBX65U2S567HTT27MC2KLX (repeat)
0500 EAM 30 chr TU7YW57OOVIE6DVZZZOWRHIYS6CXRK (repeat)
0502 EAM 30 chr TUI7HZ2GW53KZVIWO6EZGYMI7YPA6W (repeat)
0504 EAM 30 chr TUUHJS3N3WPJUKGADSOSJAVVJ5S5CK (repeat)
0826 Skyking YMR 26 CE
0835 Skyking DGQ 35 YO
0903 EAM 30 chr TUEXHX5W3SSSUDWFYZIRHUYSSVQ7XV
0953 Skyking CNY 53 DF
0956 Skyking CNY 56 FY DISREGARD CNY SENT 53 TIME 56 FY
1128 Skyking VHX 28 KY
1241 Skyking DEE 41 SJ
1244 Skyking PNW 44 GB
1315 Skyking ECY 15 ZO
1617 EAM 30 chr for DUNE VGIESV VGIESVG2RY4S4Q7YVVGQUBGZAABGBQT
1647 EAM 30 chr TUJTROSKYKIVXASOAJDWGUGPQC4MBS
1952 EAM 30 chr TUQ2L3DGASMSY54OYD5D55OGLYXEUK
2033 EAM 30 chr for ENSEIGN VGPI4GQQ2LIFCP6SJQZFWCKHQBNBW6
2039 EAM 30 chr for REGION VG2UNT VG2UNT2Q56ZS6V2JZHW5ULBVGQIB3S
2101 EAM 30 chr for REGION VGKM45 VGKM45W4OG3P6H3V62RV7UUUXZOHHG
2112 Skyking 6F7 12 JU
2159 Skyking HAZ 59 EU

24 July

```
0036 EAM 30 chr VGNXLUPXO25IKCEDYIDNSVPI43F2ZJ
0043 EAM 30 chr VGWGBBMDAJYPSEYT25GGMPSRP7VWVFY
0101 EAM 30 chr TU2NHXM6VARHW4CU7XSX56EIE6YCNO
0136 EAM 30 chr TU2NHXM6VARHW4CU7XSX56EIE6YCNO (repeat)
0200 EAM 30 chr TU2NHXM6VARHW4CU7XSX56EIE6YCNO (repeat)
0229 EAM 30 chr TU2NHXM6VARHW4CU7XSX56EIE6YCNO (repeat)
0300 EAM 30 chr TU2NHXM6VARHW4CU7XSX56EIE6YCNO (repeat)
0558 Skyking TAU 58 MH
0722 Skyking 3X4 22 RY
0808 EAM 148 chr TXCBEF5E32K3I3ZMYLXTTI5ZTZM2HUCQJ2JMCGGCWRG77772VGAJY6OUOBYELLERIIXXXXF4YXV
SIMJUPSTRRT4F4GGGGPIXJHPKXCXHGIEIEIIKKKKCW5W7W5U5DBVPWWPP6TEEEETZEFOKD4NN
0838 Skyking GJB 38 DU
0852 Skyking 3QO 51 DE
0912 Skyking 3QO 12 XQ
1113 Skyking TAU 13 GR
1202 EAM 30 chr TUVWAHTFHQ3LTQLQS7W5FIRYBROA5Y
1230 Skyking NQV 30 VQ
1239 Skyking 2QI 39 XW
1610 EAM 30 chr TUXZ3HRCD3EFHVJWXWMD5TOTOXYUDF
1630 EAM 30 chr TUXZ3HRCD3EFHVJWXWMD5TOTOXYUDF (repeat)
1657 EAM 30 chr TU5PHFUHWIU26S7DTR2P6PE6NKPEOC
1700 EAM 30 chr TUXZ3HRCD3EFHVJWXWMD5TOTOXYUDF (repeat)
1733 EAM 30 chr TUEL067FC3UHUQY6YDJPQE72PFOIGU
```


1840 Skyking U6H 40 RF
 2046 EAM 30 chr for OHLA VGIXS3 VGIXS34YJ2HXILI322OHOHPFVZTJYD
 2115 EAM 30 chr TUDO56SAWPAF2YDYDNNFGLTENDUKW4
 2134 Skyking G2B 34 GQ
 2213 EAM 30 chr VGLM4J7CV36SP5WTRH75OQTG3ZS6AK
 2222 EAM 30 chr for REGION VG4H4Q VG4H4QFOZDOBEHSWDDASK3O466N4UA
 2249 EAM 30 chr VGOZXUCUVE7XGLGYH4RG7ASKISGIWD
 2251 EAM 30 chr VGOL2Y5GVHK5XL2PHOAOI6W424XQMP
 2353 EAM 30 chr VG7E4V63334YIF3ROKU6NHWVZ4BZ2L

25 July

0002 Skyking ASM 2 BT
 0023 EAM 30 chr TUJGQFBMEJQFT4KZFZ6SQETNIAQ5JR
 0028 EAM 30 chr TUXGDOVFCYKA6SOL6LNYT2ZVQMYRIM
 0245 Skyking FRA 45 UC
 0437 Skyking 3VH 37 HK
 0532 Skyking 3VH 32 HC
 0634 Skyking NBK 34 QQ
 0730 Skyking RP5 30 RH
 0831 Skyking OCO 31 MI
 0922 Skyking NBK 22 MF
 1037 Skyking 2Z7 37 HK
 1153 Skyking 725 53 ZE
 1347 Skyking OGM 47 VS
 1542 EAM 30 chr VGBOHZNJLG3D7UVN4AMDRVHWOR32LS
 1607 EAM 30 chr VGBOHZNJLG3D7UVN4AMDRVHWOR32LS (repeat)
 1623 EAM 30 chr TUUUZ6IPVPPAZ5OR7T3Y4D3HEJYRPC
 1627 EAM 30 chr TUUNIZIYX52RNEFQGKYJHEPRFCI4R2
 1630 EAM 30 chr TUUNIZIYX52RNEFQGKYJHEPRFCI4R2 (repeat)
 1633 EAM 30 chr TU6BXASBJUK4HNRIEYIFWG75YJGEE7
 1635 EAM 30 chr TUUUZ6IPVPPAZ5OR7T3Y4D3HEJYRPC (repeat)
 1637 EAM 30 chr VGBOHZNJLG3D7UVN4AMDRVHWOR32LS (repeat)
 1701 EAM 30 chr TU6BXASBJUK4HNRIEYIFWG75YJGEE7 (repeat)
 1702 EAM 30 chr TUUNIZIYX52RNEFQGKYJHEPRFCI4R2 (repeat)
 1704 EAM 30 chr TUUUZ6IPVPPAZ5OR7T3Y4D3HEJYRPC (repeat)
 1709 Skyking 4LZ 9 LJ
 1719 EAM 30 chr TUYK3XET4KM5TG5A3UY6OPJBU4KQED
 1725 EAM 30 chr TUOPSQ7WNVHDYFODCP2NSBTWLCDBDK
 1731 EAM 30 chr TUOPSQ7WNVHDYFODCP2NSBTWLCDBDK (repeat)
 1732 EAM 30 chr TU6BXASBJUK4HNRIEYIFWG75YJGEE7 (repeat)
 1734 EAM 30 chr TUUNIZIYX52RNEFQGKYJHEPRFCI4R2 (repeat)
 1800 EAM 30 chr TUOPSQ7WNVHDYFODCP2NSBTWLCDBDK (repeat)
 1802 EAM 30 chr TU6BXASBJUK4HNRIEYIFWG75YJGEE7 (repeat)
 1804 EAM 30 chr TUUNIZIYX52RNEFQGKYJHEPRFCI4R2 (repeat)
 1902 EAM 30 chr TUOPSQ7WNVHDYFODCP2NSBTWLCDBDK (repeat)
 1904 EAM 30 chr TU6BXASBJUK4HNRIEYIFWG75YJGEE7 (repeat)

26 July

1040 Skyking ALD 40 NX
 1207 Skyking C46 7 ZG
 2028 Mainsail: VGDFREHRXWVKA2HCIFASU7TILLKOK7 30 chr EAM
 2031 Mainsail: VGUI4GIBCCCF6MOOMH5YP3UAJICSGO 30 chr EAM
 2037 Mainsail: TUBMV35JUW4VCTT5ZO44DEIZIKIVNQ 30 chr EAM
 2049 Mainsail: TUD57TXCFLQ2NHB2ME2D6TL3AZFQ5Z 30 chr EAM
 2057 Mainsail: TUK5U5TTA0SEQUFIJEFQGX6EUUQ32 30 chr EAM
 2106 Mainsail: TUTWU5TZUSLDLE4PGZOMHHPUVYVNH6 30 chr EAM
 2114 Mainsail: WTV 14 Dr Skyking DNA

27 July

1545 EAM 30 chr TUKCWZJBKDDRYVDSS2YTUCLEOOZINQ
1645 Skyking QLI 45 IG
1813 Skyking OXZ 13 ZI
2018 Skyking CIK 18 TA
2133 EAM 39 chr VGOEO7FAIZMPICS5NA6GEDI6GEWUUDP6HGFZXTB
2158 EAM 30 chr TUM4PMD3ZN7XYYZMJBG4AK6A4K2ZSC
2211 EAM 30 chr TUPJOLTVC4XZS5BFGBZN3H3YAMKQK5
2232 EAM 30 chr TUFNSGA34IEIPJ7EYV45DAZNT7AIOR

28 July

0527 EAM 30 chr VG5JOZLIVCV7ZZ2AVENHOWFDSFDLAU
0533 EAM 30 chr TUSUMG5Y72SCHNIAHOQPE6T5I3ZCMK
0538 EAM 30 chr TUZFC433IFYUA6T5NYXHVVH7BZRI4C6
0551 EAM 30 chr TUZLMVK27NC5VJG4TCENNUM33II5HU
0553 Skyking MO2 53 HY
0602 EAM 30 chr TUVYX7JBORHZHGTZPYSOSZXU27VVB
0630 EAM 30 chr TUVYX7JBORHZHGTZPYSOSZXU27VVB (repeat)
1330 Skyking CVC 30 ZF
1332 Skyking YFU 32 MJ
1547 EAM 30 chr for DINA VG2TZR VG2TZR56CPMCO5ZP46CTLJDY3MKGJU
2100 EAM 30 chr TUZRFKHFSOK2IIFN3CMVDBNCTXFZRP
2126 EAM 30 chr TUVLOQNEKAMT3C4ZI3UZE5ZLNHIBNX
2131 EAM 30 chr TUVLOQNEKAMT3C4ZI3UZE5ZLNHIBNX (repeat)
2132 EAM 30 chr TUZRFKHFSOK2IIFN3CMVDBNCTXFZRP (repeat)
2136 EAM 30 chr TUPQL35JDVEQ2J4Z74MXI5CYSMH63M
2142 EAM 30 chr TU3QLVW5ZR5UG5EEZLRQZJJA6AOC3S
2201 EAM 30 chr TU3QLVW5ZR5UG5EEZLRQZJJA6AOC3S (repeat)
2235 EAM 30 chr TU3QLVW5ZR5UG5EEZLRQZJJA6AOC3S (repeat)
2309 EAM 30 chr TU3QLVW5ZR5UG5EEZLRQZJJA6AOC3S (repeat)
2335 EAM 30 chr TU3QLVW5ZR5UG5EEZLRQZJJA6AOC3S (repeat)

29 July

0009 Skyking 7PO 9 LU
0910 Skyking FQ5 10 WG
0918 EAM 30 chr for DICTE VGZKEJPLUC5JITM3AP4DNBVBVY5DF4
0928 Skyking LBE 28 CJ
0934 EAM 34 chr VGDQFCQ734FCCT73YXQ2VJJGQLEXS64QLC
1018 Skyking MLU 18 BV
1047 Skyking J47 46 UO
1146 Skyking FQ5 46 KC
1147 Skyking 3TW 46 KC
1148 Skyking FQ5 48 GW
1149 Skyking 3TW 48 GW
1455 EAM 30 chr VGRVVCYKJOBYP6YUXNRINC4YY7RE
1502 EAM 56 chr VGZTHM67FRI7UF4PNGEF4SIO6KN5NO4TPTOFKKIUCQQCTZZK3KLFV4X6
1530 EAM 56 chr VGZTHM67FRI7UF4PNGEF4SIO6KN5NO4TPTOFKKIUCQQCTZZK3KLFV4X6 (repeat)
1544 EAM 110 chr VGMNYSAXFWX36NGGWS5AKAJBAKAWBASAY77FWLLBKQAXTPZDWG4I2VETPKDEKC6WCRT
MD7LBKQAXTPAWKG4I2VET7DDIKC6WCRTVYORLBKQAXD
1601 EAM 110 chr VGMNYSAXFWX36NGGWS5AKAJBAKAWBASAY77FWLLBKQAXTPZDWG4I2VETPKDEKC6WCRT
PMD7LBKQAXTPAWKG4I2VET7DDIKC6WCRTVYORLBKQAXD (repeat)
1610 EAM 30 chr TUTLMF273NML24VK6ZJARG2FFZLQI6
1837 EAM 148 chr TX4DCDH6AGRCHIRX26S5TPHYKKQAFJNWXER7H7W5D2222CTYOXQQ7WME5KUHHOH6EEEEZXGV322XV
RSTBXSS2DPBBBNQZLNLUUGKUNSTMM3L2DDDDIFWSBDDFTVNQKBVVBBKGGGG4IYQMZSCP
2048 Skyking 3TW 48 ZO
2309 EAM 30 chr TUBD4XW6LGEXAWPZYADHLCQ7YG36HW

30 July

0007 Skyking SQO 8 DY
0114 EAM 30 chr TUW2SNEEBHBJZ4LE4P34XIJ6O4R7ZQ

0207 Skyking SUD 7 FJ
0230 Skyking RHW 30 SN
0253 Skyking 22D 53 KW
0835 Skyking I5H 35 CZ
0910 Skyking 56P 10 EF
0911 EAM 157 chr TXLOJWWSCUIMAANC24FFEOEG53UC55GWKWGEF3EQ3NXXXXYQDYW22VZXLLJ3BJGGEGGGG
KHU7RZ33737THHZEZBLOZO4QONYYYY4QCJ633232Y5EOEG4OPAAAA2WA763VI6I7P4G2POORJ5AXU4SPGQKZI4MY
0923 Skyking GRD 23 RT
0933 EAM 30 chr TUSRGKYLXPKG2RKNN025GLA4SQYREJ
1121 Skyking MSC 21 BF
1323 Skyking QI2 23 GU
1357 Skyking 7N4 57 JJ
1549 EAM 30 chr for RAZORBLADE VG2CNWKDI5WTQW3BMJH4IGEZWOE75
1600 EAM 30 chr for RAZORBLADE VG2CNWKDI5WTQW3BMJH4IGEZWOE75 (repeat)
1616 Skyking OFR 16 LY
1632 EAM 30 chr for RAZORBALDE VG2CNWKDI5WTQW3BMJH4IGEZWOE75 (repeat)
2020 Skyking PSM 20 WN
2106 Skyking 2V4 6 PR
2120 EAM 30 chr TU3F5GA7WOKIMDRSAECDAN4HQPVP3
2127 EAM 30 chr TUQELSILU53U4J3E3PI33KENQPFE4L

31 July

0003 Skyking 3VC 3 DN
0019 Skyking 43U 19 DL
0040 EAM 30 chr VGH5CO5S4VHYDBH4LXXX5UIELF4PGB
0059 EAM 30 chr TUUXBITSI3I5EQPIIUJA5BBIP7LIS6
0105 EAM 30 chr TUXD3WUDXQHMTXF6WAPLHEI2ZANXED
0630 Skyking OZ2 30 LO
0643 Skyking V6D 43 RY
0648 Skyking TA7 48 XJ
0801 Skyking QDG 1 IG

LOGS SECTION

Freq.	Code	Date	UTC	Day	Remarks	Mode	Contributor
6815	---	5-7	0922	Sat	Unid continuous marker: PPKD	CW	(NR)
6815	---	6-7	0750	Sun	Unid continuous marker: PPKD	CW	(NR)
6450	ARM	3-7	2104	Thu	Armenian Air Defence. Bearings	USB	(AB)
6450	ARM	8-7	1718	Tue	Armenian Air Defense	USB	(AB)
6450	ARM	14-7	1633	Mon	Armenian Air Defense	USB	(AB)
21318.5	DPRK	10-6	0910		North Korean embassy Freetown	DPRK-ARQ 600/600	(IARUMS)
15935	E06	3-7	0500	Thu	679 358 102 28563 80012 24696 .. 26657 26 2 42814 428 stops 679 then continues. Sends 99 groups	USB	(AB)
15935	E06	3-7	0500	Thu	679 358 102 28563 80012 24696 ... 33003 33555 56997 358 102 00000	H3E	(Danix)
17430	E06	3-7	0600	Thu	679 358 102 28563 80012 24696 ... 33003 33555 56997 358 102 00000	H3E	(Danix)
17430	E06	3-7	0600	Thu	679 358 102 28563 80012 24696 ... 33003 33555 56997 358 102 00000	USB	(AB)
5948	E06	3-7	2030	Thu	724 013 20 14259 22676 32782 ... 18841 73311 98089 12250 013 20 00000	AM	(Avare)
5948	E06	3-7	2030	Thu	724 013 20 14259 22676 32782 ... 73311 98089 12250 013 20 00000	H3E	(Danix)
15935	E06	4-7	0500	Fri	679 358 102 28563 80012 24696 ... 33003 33555 56997 358 102 00000	H3E	(Danix)
15935	E06	4-7	0500	Fri	679 358 10 28563	USB	(HFD)
17430	E06	4-7	0600	Fri	679 358 102 28563 80012 24696 ... 33003 33555 56997 358 102 00000	H3E	(Danix)
17430	E06	4-7	0600	Fri	679	USB	(HFD)
5731	E06	4-7	2130	Fri	315 274 20 37839 35787 98273 ... 60491 75924 04594 274 20 00000	H3E	(Danix)
12207	E06	9-7	1130	Wed	509 716 83 02482 39597 07194 ... 92670 76862 91517 00000	USB	(AB)
12207	E06	9-7	1130	Wed	509 716 83 02482 39597 07194 ... 92670 76862 91517 716 83 00000	H3E	(Danix)
9075	E06	9-7	1600	Wed	509 716 83 02482 39597 07194 ... 92670 76862 91517 716 83 00000	H3E	(Danix)
5156	E06	9-7	1920	Wed	376 376 376 00000	H3E	(Danix)
5156	E06	9-7	1920	Wed	376 376 376 00000	USB	(AB)
5156	E06	9-7	1920	Wed	376 376 376 00000	USB	(HFD)
4592	E06	9-7	2020	Wed	376 376 376 00000	H3E	(Danix)

Freq.	Code	Date	UTC	Day	Remarks	Mode	Contributor
4592	E06	9-7	2020	Wed	376 376 376 00000	USB	(HFD)
7982	E06	13-7	1120	Sun	376 376 376 00000	H3E	(Danix)
7493	E06	13-7	1220	Sun	376 376 376 00000	H3E	(Danix)
15935	E06	17-7	0500	Thu	679 358 102 28563 80012 24696 ... 33003 33555 56997 358 102 00000	H3E	(Danix)
17430	E06	17-7	0600	Thu	679 358 102 28563 80012 24696 ... 33003 33555 56997 358 102 00000	H3E	(Danix)
15935	E06	18-7	0500	Fri	679 358 102 28563 80012 24696 ... 33003 33555 56997 358 102 00000	H3E	(Danix)
17430	E06	18-7	0600	Fri	679 358 102 28563 80012 24696 ... 33003 33555 56997 358 102 00000	H3E	(Danix)
17430	E06	18-7	0600	Fri	679 358 102 28563 80012 24696 ... 33003 33555 56997 358 102 00000	USB	(AB)
12207	E06	23-7	1130	Wed	509 509 509 00000. First null message on this schedule.	H3E	(Danix)
9073	E06	30-7	1912	Wed	i.p. 258 51 00000	H3E	(Danix)
8095	E06	31-7	1900	Thu	975 248 51 62986 97094 05704 ... 86154 14659 86282 248 51 00000	H3E	(Danix)
13898	E07	2-7	1700	Wed	817 817 817 000	USB	(HFD)
12198	E07	2-7	1720	Wed	817 817 817 000	USB	(HFD)
14812	E07	2-7	1900	Wed	845 845 845 000	USB	(HFD)
13412	E07	2-7	1920	Wed	845 845 845 000	USB	(HFD)
11539	E07	3-7	2010	Thu	553 553 553 000	AM	(Danix)
13898	E07	6-7	1700	Sun	817 817 817 000	AM	(Danix)
13898	E07	9-7	1700	Wed	817 817 817 000	AM	(AB)
12198	E07	9-7	1720	Wed	817 817 817 000	AM	(AB)
14812	E07	9-7	1900	Wed	845 845 845 000	AM	(AB/GHn)
13412	E07	9-7	1920	Wed	845 845 845 000	AM	(AB)
11539	E07	10-7	2010	Thu	553 553 553 000	USB	(HFD)
10547	E07	10-7	2030	Thu	553 553 553 000	USB	(HFD)
10547	E07	10-7	2030	Thu	553 553 553 000	AM	(Dan)
13412	E07	14-7	1920	Mon	845 845 845 000	AM	(GHn)
11539	E07	24-7	2010	Thu	553 553 553 000	AM	(Danix)
13412	E07	28-7	1920	Mon	845 1 483 38 02172 68065 32371 ... 63470 49929 96760 000 000	AM	(GHn)
7437	E07a	10-6	0430		411 1 69996 659 91 31232 70738 92629 4... 69423 37775 66325 000 000	USB	(AB)
7437	E07a	3-7	0430	Thu	411 411 411 000	USB	(AB)
8137	E07a	3-7	0450	Thu	411 411 411 000	USB	(AB)
12213	E07a	4-7	1510	Fri	241 241 241 000	USB	(GHn)
12213	E07a	4-7	1510	Fri	241 241 241 000	USB	(HFD)
11413	E07a	4-7	1530	Fri	241 241 241 000	USB	(HFD)
12173	E07a	5-7	0800	Sat	198 198 198 000	USB	(HFD)
13973	E07a	5-7	0820	Sat	198 198 198 000	USB	(HFD)
8173	E07a	9-7	2000	Wed	147 1 69996 659 91 31232 70738 92629 ... 69423 37775 66325 000 000	USB	(AB)
6923	E07a	9-7	2020	Wed	147 1 69996 659 91 31232 70738 92629 ... 69423 37775 66325 000 000	USB	(AB)
5773	E07a	9-7	2040	Wed	147 1 69996 659 91 31232 70738 92629 ... 69423 37775 66325 000 000	USB	(AB/JPL)
7437	E07a	17-7	0430	Thu	411 411 411 000	USB	(HFD)
8137	E07a	17-7	0450	Thu	411 411 411 000	USB	(HFD)
8173	E07a	23-7	2000	Wed	147 1 19097 1342 79 49682 90044 97253 ... 72075 33036 32062 000 000	USB	(GHn)
8173	E07a	30-7	2000	Wed	147 147 147 000	USB	(GHn)
10800	E11	30-6	0450		416/00	USB	(Danix)
9610	E11	30-6	0745		262/00	USB	(Danix)
8725	E11	30-6	0820		438/00	USB	(Danix)
12924	E11	30-6	0830		649/00	USB	(Danix)
13427	E11	30-6	0900		534/00	USB	(Danix)
16335	E11	30-6	1540		228/00	USB	(Danix)
14753	E11	1-7	0710	Tue	633/00	USB	(Danix)
14753	E11	1-7	0710	Tue	633/00	USB	(AB)
15632	E11	1-7	0745	Tue	335/00	USB	(AB)
15632	E11	1-7	0745	Tue	335/00	USB	(Danix)
13873	E11	1-7	1045	Tue	576/00	USB	(Danix)
8565	E11	2-7	0315	Wed	253/00	USB	(Danix)
13424	E11	2-7	0545	Wed	348/00	USB	(Danix)
13427	E11	2-7	0900	Wed	534/00	USB	(Danix)
10213	E11	2-7	0930	Wed	270/00	USB	(Danix)
4909	E11	2-7	1445	Wed	287/00	USB	(Danix)
8565	E11	3-7	0315	Thu	253/00	USB	(Danix)
15632	E11	3-7	0745	Thu	335/00	USB	(Danix)
8725	E11	3-7	0820	Thu	438/00	USB	(Danix)
4909	E11	3-7	0900	Thu	248/00	USB	(Danix)

Freq.	Code	Date	UTC	Day	Remarks	Mode	Contributor
10213	E11	3-7	0930	Thu	270/00	USB	(Danix)
10356	E11	3-7	1530	Thu	262/00	USB	(Danix)
8088	E11	3-7	1730	Thu	416/00	USB	(Danix)
13424	E11	4-7	0545	Fri	348/00	USB	(Danix)
14753	E11	4-7	0710	Fri	633/00	USB	(Danix)
12924	E11	4-7	0830	Fri	649/00	USB	(Danix)
8530	E11	4-7	2000	Fri	576/00 w/ Windows XP shutdown	USB	(Danix)
8530	E11	4-7	2000	Fri	576/00 Windows XP shutdown sound	USB	(Danix)
4909	E11	5-7	0900	Sat	248/00	USB	(HFD)
4909	E11	5-7	0900	Sat	248/00	USB	(Danix)
4909	E11	5-7	1445	Sat	287/00	USB	(Danix)
9130	E11	5-7	2005	Sat	363/00 (was 369/00 in 06-2014 and before)	USB	(Danix)
16335	E11	6-7	1540	Sun	228/00	USB	(Danix)
9130	E11	6-7	2005	Sun	363/00	USB	(Danix)
9610	E11	7-7	0745	Mon	262/00	USB	(Danix)
9610	E11	7-7	0745	Mon	262/00	USB	(AB)
8725	E11	7-7	0820	Mon	438/00	USB	(AB)
8725	E11	7-7	0820	Mon	438/00	USB	(Danix)
12924	E11	7-7	0830	Mon	649/00	USB	(Danix)
12924	E11	7-7	0830	Mon	649/00	USB	(AB)
13427	E11	7-7	0900	Mon	534/00	USB	(Danix)
13424	E11	8-7	0645	Tue	517/00	USB	(Danix)
13424	E11	8-7	0645	Tue	517/00	USB	(AB)
14753	E11	8-7	0710	Tue	633/00	USB	(AB)
14753	E11	8-7	0710	Tue	633/00	USB	(Danix)
15632	E11	8-7	0745	Tue	335/00	USB	(Danix)
15632	E11	8-7	0745	Tue	335/00	USB	(AB)
9610	E11	8-7	1045	Tue	469/00	USB	(Danix)
9610	E11	8-7	1045	Tue	469/00	USB	(AB)
13908	E11	8-7	1300	Tue	133/00	USB	(Danix)
13424	E11	9-7	0545	Wed	348/00	USB	(Danix)
13427	E11	9-7	0900	Wed	534/00	USB	(AB)
13427	E11	9-7	0900	Wed	534/00	USB	(Danix)
10213	E11	9-7	0930	Wed	270/00	USB	(Danix)
9610	E11	9-7	1045	Wed	469/00	USB	(AB)
9610	E11	9-7	1045	Wed	469/00	USB	(Danix)
13908	E11	9-7	1300	Wed	133/00	USB	(Danix)
13908	E11	9-7	1300	Wed	133/00	USB	(AB)
4909	E11	9-7	1445	Wed	287/00	USB	(Danix)
14865	E11	9-7	1705	Wed	392/00	USB	(Danix)
14865	E11	9-7	1705	Wed	392/00	USB	(AB)
13424	E11	10-7	0645	Thu	517/00	USB	(Danix)
15632	E11	10-7	0745	Thu	335/00	USB	(Danix)
8725	E11	10-7	0820	Thu	438/00	USB	(Danix)
4909	E11	10-7	0900	Thu	248/00	USB	(Danix)
10213	E11	10-7	0930	Thu	270/00	USB	(Danix)
10356	E11	10-7	1530	Thu	262/00	USB	(Danix)
13424	E11	11-7	0545	Fri	348/00	USB	(Danix)
14753	E11	11-7	0710	Fri	633/00	USB	(Danix)
12924	E11	11-7	0830	Fri	649/00	USB	(Danix)
4909	E11	12-7	0900	Sat	248/00	USB	(Danix)
4909	E11	12-7	1445	Sat	287/00	USB	(Danix)
14865	E11	12-7	1705	Sat	392/00	USB	(Danix)
9130	E11	12-7	2005	Sat	363/00	USB	(Danix)
14975	E11	13-7	0805	Sun	371/00	USB	(Danix)
9130	E11	13-7	2005	Sun	363/00	USB	(Danix)
10800	E11	14-7	0450	Mon	416/00	USB	(Danix)
9610	E11	14-7	0745	Mon	262/00	USB	(Danix)
9610	E11	14-7	0745	Mon	262/00	USB	(AB)
12924	E11	14-7	0830	Mon	649/00	USB	(Danix)
13427	E11	14-7	0900	Mon	534/00	USB	(Danix)
16335	E11	14-7	1540	Mon	228/00	USB	(Danix)

Freq.	Code	Date	UTC	Day	Remarks	Mode	Contributor
13424	E11	15-7	0645	Tue	517/00	USB	(Danix)
15632	E11	15-7	0745	Tue	335/00	USB	(AB)
15632	E11	15-7	0745	Tue	335/00	USB	(Danix)
9610	E11	15-7	1045	Tue	469/00	USB	(AB)
9610	E11	15-7	1045	Tue	469/00	USB	(Danix)
13873	E11	15-7	1045	Tue	576/00	USB	(Danix)
13908	E11	15-7	1300	Tue	133/00	USB	(Danix)
8565	E11	16-7	0315	Wed	253/00	USB	(Danix)
13424	E11	16-7	0545	Wed	348/00	USB	(Danix)
14975	E11	16-7	0805	Wed	371/00	USB	(Danix)
13427	E11	16-7	0900	Wed	534/00	USB	(Danix)
10213	E11	16-7	0930	Wed	270/00, turned into white noise at 0931z	USB	(Danix)
9610	E11	16-7	1045	Wed	469/00	USB	(Danix)
16335	E11	16-7	1155	Wed	718/00	USB	(AB)
13908	E11	16-7	1300	Wed	133/00	USB	(Danix)
4909	E11	16-7	1445	Wed	287/00	USB	(AB)
4909	E11	16-7	1445	Wed	287/00	USB	(Danix)
14865	E11	16-7	1705	Wed	392/00	USB	(Danix)
8565	E11	17-7	0315	Thu	253/00	USB	(Danix)
13424	E11	17-7	0645	Thu	517/00	USB	(Danix)
15632	E11	17-7	0745	Thu	335/00	USB	(Danix)
4909	E11	17-7	0900	Thu	248/00	USB	(Danix)
10213	E11	17-7	0930	Thu	270/00	USB	(Danix)
10356	E11	17-7	1530	Thu	262/00	USB	(Danix)
8088	E11	17-7	1730	Thu	416/00	USB	(Danix)
13424	E11	18-7	0545	Fri	348/00	USB	(Danix)
13424	E11	18-7	0545	Fri	348/00	USB	(AB)
12924	E11	18-7	0830	Fri	649/00	USB	(Danix)
8530	E11	18-7	2000	Fri	576/00	USB	(Danix)
4909	E11	19-7	0900	Sat	248/00	USB	(Danix)
4909	E11	19-7	1445	Sat	287/00	USB	(Danix)
14865	E11	19-7	1705	Sat	392/00	USB	(AB)
14865	E11	19-7	1705	Sat	392/00	USB	(Danix)
14975	E11	20-7	0805	Sun	371/00	USB	(Danix)
16335	E11	20-7	1540	Sun	228/00	USB	(SP1)
16335	E11	20-7	1540	Sun	228/00	USB	(Danix)
10800	E11	21-7	0450	Mon	416/00	USB	(Danix)
8725	E11	21-7	0820	Mon	438/00	USB	(Danix)
13427	E11	21-7	0900	Mon	534/00	USB	(Danix)
16335	E11	21-7	1540	Mon	228/00	USB	(Danix)
13424	E11	22-7	0645	Tue	517/00	USB	(Danix)
13424	E11	22-7	0645	Tue	517/00	USB	(AB)
14753	E11	22-7	0710	Tue	633/00	USB	(AB)
14753	E11	22-7	0710	Tue	633/00	USB	(Danix)
15632	E11	22-7	0745	Tue	335/00	USB	(Danix)
15632	E11	22-7	0745	Tue	335/00	USB	(AB)
9610	E11	22-7	1045	Tue	469/00	USB	(Danix)
13873	E11	22-7	1045	Tue	576/00	USB	(Danix)
13908	E11	22-7	1300	Tue	133/00	USB	(Danix)
8565	E11	23-7	0315	Wed	253/00	USB	(Danix)
13427	E11	23-7	0900	Wed	534/00	USB	(Danix)
10213	E11	23-7	0930	Wed	270/00	USB	(Danix)
9610	E11	23-7	1045	Wed	469/00	USB	(AB)
9610	E11	23-7	1045	Wed	469/00	USB	(Danix)
13908	E11	23-7	1300	Wed	133/00	USB	(Danix)
14865	E11	23-7	1705	Wed	392/00	USB	(Danix)
8565	E11	24-7	0315	Thu	253/00	USB	(Danix)
13424	E11	24-7	0645	Thu	517/00	USB	(Danix)
15632	E11	24-7	0745	Thu	335/00	USB	(Danix)
8725	E11	24-7	0820	Thu	438/00	USB	(Danix)
10213	E11	24-7	0930	Thu	270/00	USB	(Danix)
8088	E11	24-7	1730	Thu	416/00 w/ Windows XP shutdown	USB	(Danix)

Freq.	Code	Date	UTC	Day	Remarks	Mode	Contributor
8088	E11	24-7	1730	Thu	416/00 followed by Windows XP shutdown sound	USB	(Danix)
14753	E11	25-7	0710	Fri	633/00	USB	(Danix)
14753	E11	25-7	0710	Fri	633/00	USB	(AB)
8530	E11	25-7	2000	Fri	576/00	USB	(Danix)
8530	E11	25-7	2000	Fri	576/00	USB	(GHn)
14865	E11	26-7	1705	Sat	392/00	USB	(Danix)
16335	E11	27-7	1540	Sun	228/00	USB	(Danix)
10800	E11	28-7	0450	Mon	416/00	USB	(Danix)
9610	E11	28-7	0745	Mon	262/00	USB	(Danix)
8725	E11	28-7	0820	Mon	438/00	USB	(Danix)
12924	E11	28-7	0830	Mon	649/00	USB	(Danix)
16335	E11	28-7	1540	Mon	228/00	USB	(Danix)
13424	E11	29-7	0645	Tue	517/00	USB	(Danix)
13424	E11	29-7	0645	Tue	517/00	USB	(AB)
14753	E11	29-7	0710	Tue	633/00	USB	(Danix)
14753	E11	29-7	0710	Tue	633/00	USB	(AB)
9610	E11	29-7	1045	Tue	469/00	USB	(Danix)
13873	E11	29-7	1045	Tue	576/00	USB	(Danix)
13424	E11	30-7	0545	Wed	348/00	USB	(AB)
9610	E11	30-7	1045	Wed	469/00	USB	(AB)
16335	E11	30-7	1155	Wed	718/00	USB	(AB/SP1)
13908	E11	30-7	1300	Wed	133/00	USB	(AB)
13424	E11	31-7	0645	Thu	517/00	USB	(Danix)
8725	E11	31-7	0820	Thu	438/00	USB	(Danix)
4909	E11	31-7	0900	Thu	248/00	USB	(AB/Danix)
8088	E11	31-7	1730	Thu	416/00 w/ Windows XP shutdown	USB	(Danix)
14769	E11a	1-7	0530	Tue	980/10 Attention 52485 77597 11928 00444 31282 91051 20456 53418 07871 07867	USB	(Danix)
13424	E11a	1-7	0645	Tue	519/33 Attention 33867 09340 13936 ... 65358 53807 37433 Attention, rpt msg, out	USB	(AB)
13424	E11a	1-7	0645	Tue	519/33 Attention 33867 09340 13936 ... 65358 53807 37433	USB	(Danix)
9610	E11a	1-7	1045	Tue	469/32 Attention 23589 03264 04435 ... 73677 54442 90711	USB	(Danix)
13908	E11a	1-7	1300	Tue	138/36 Attention 63567 25565 64586 ... 38913 00868 30033	USB	(Danix)
14518	E11a	1-7	1810	Tue	982/10 Attention 49830 34535 53561 79931 78228 72754 15889 65365 76777 42869	USB	(Danix)
14518	E11a	1-7	1810	Tue	982/10 Attention 49830 34535 53561 79931 78228 72754 15889 65365 76777 42869 Attention, rpt msg, out.	USB	(GHn)
9610	E11a	2-7	1045	Wed	469/32 Attention 23589 03264 04435 ... 73677 54442 90711	USB	(Danix)
13908	E11a	2-7	1300	Wed	138/36 Attention 63567 25565 64586 ... 38913 00868 30033	USB	(Danix)
14865	E11a	2-7	1705	Wed	395/33 Attention 51876 27705 68702 ... 07566 99344 22382	USB	(Danix)
13424	E11a	3-7	0645	Thu	519/33 Attention 33867 09340 13936 ... 65358 53807 37433	USB	(Danix)
13424	E11a	3-7	0645	Thu	519/33 Attention 33867 09340 13936 ... 65358 53807 37433 Attention, rpt msg, out	USB	(AB)
10487	E11a	4-7	1710	Fri	953/21 Attention 22173 82964 26304 ... 59033 03546 60602	USB	(Danix)
14769	E11a	5-7	0530	Sat	988/10 Attention 44157 11528 59207 19398 59662 16306 44198 78877 80262 38748	USB	(Danix)
14865	E11a	5-7	1705	Sat	392/33 Attention 51876 27705 68702 ... 07566 99344 22382 Attention, rpt msg, out	USB	(GHn)
14865	E11a	5-7	1705	Sat	395/33 Attention 51876 27705 68702 ... 07566 99344 22382	USB	(Danix)
14518	E11a	5-7	1810	Sat	986/10 Attention 40689 31352 17844 94177 19308 07522 50245 90765 44239 25916	USB	(Danix)
14518	E11a	5-7	1810	Sat	986/10 Attention 40689 31352 17844 94177 19308 07522 52045 90765 44239 25916 Attention, rpt msg, out	USB	(GHn)
10800	E11a	7-7	0450	Mon	412/32 Attention 66391 71201 74664 ... 27944 53721 33196	USB	(Danix)
16388	E11a	7-7	1110	Mon	956/40 Attention 55049 01574 97086 ... 88656 16121 24156	USB	(Danix)
16388	E11a	7-7	1110	Mon	956/40 Attention 55049 01574 97086 ... 88656 16121 24156 Attention, rpt msg, out	USB	(AB)
16335	E11a	7-7	1540	Mon	229/36 Attention 23085 88961 28327 ... 80973 01951 17316	USB	(Danix)
10487	E11a	7-7	1710	Mon	953/30 Attention 95902 61520 41043 ... 34772 88812 43441 Attention, rpt msg, out	USB	(AB)
10487	E11a	7-7	1710	Mon	953/30 Attention 95902 61520 41043 ... 34772 88812 43441	USB	(Danix)
14769	E11a	8-7	0530	Tue	980/10 Attention 37067 73595 43247 40021 46519 37382 64840 54864 74298 71722	USB	(Danix)
14769	E11a	8-7	0530	Tue	980/10 Attention 37067 73595 43247 40021 46519 37382 64840 54864 74298	USB	(AB)

Freq.	Code	Date	UTC	Day	Remarks	Mode	Contributor
					71722 Attention, rpt msg, out		
13873	E11a	8-7	1045	Tue	575/30 Attention 33558 47197 99218 ... 31771 66346 50260	USB	(Danix)
13873	E11a	8-7	1045	Tue	575/30 Attention 33558 47197 99218 ... 31771 66346 50260 Attention, rpt msg, out	USB	(AB)
13722	E11a	8-7	1400	Tue	981/10 Attention 52465 52847 56686 34660 53977 15195 87010 24093 84790 73826	USB	(Danix)
14518	E11a	8-7	1810	Tue	982/10 Attention 13319 29458 12719 38989 60459 39624 92997 64618 98422 82658	USB	(Danix)
8565	E11a	9-7	0315	Wed	253/37, too weak to copy	USB	(Danix)
16335	E11a	9-7	1155	Wed	716/37 Attention 03646 70477 06303 ... 08427 71588 57267 Attention, rpt msg, out	USB	(AB)
8565	E11a	10-7	0315	Thu	253/37, too weak to copy	USB	(Danix)
16335	E11a	10-7	1155	Thu	716/37 Attention 03646 70477 06303 ... 08427 71588 57267 Attention, rpt msg, out	USB	(AB)
8088	E11a	10-7	1730	Thu	412/32 Attention 66391 71201 74664 ... 27944 53721 33196	USB	(Danix)
16388	E11a	11-7	1110	Fri	952/31 Attention 20887 98902 14785 ... 62319 09462 69685	USB	(Danix)
10487	E11a	11-7	1710	Fri	953/23 Attention 56395 36765 12412 ... 24435 53226 14933	USB	(Danix)
8530	E11a	11-7	2000	Fri	575/30 Attention 33558 47197 99218 ... 31771 66346 50260	USB	(Danix)
14769	E11a	12-7	0530	Sat	986/10 Attention 17734 47217 63114 05826 88160 10914 57107 83651 40983 05735	USB	(Danix)
13722	E11a	12-7	1400	Sat	980/10 Attention 52485 77597 11928 00444 31282 91051 20456 53418 07871 07867	USB	(Danix)
14518	E11a	12-7	1810	Sat	981/10 Attention 63252 28192 17599 61768 81435 07639 06952 39934 59163 34442	USB	(Danix)
16335	E11a	13-7	1540	Sun	229/36 Attention 23085 88961 28327 ... 80973 01951 17316	USB	(Danix)
8725	E11a	14-7	0820	Mon	436/38 Attention 83881 98269 01594 ... 96629 47857 63617	USB	(Danix)
16388	E11a	14-7	1110	Mon	952/40 Attention 74025 77951 62751 ... 33048 71849 77201	USB	(Danix)
16388	E11a	14-7	1110	Mon	952/40 Attention	USB	(AB)
10487	E11a	14-7	1710	Mon	957/30 Attention 85102 07606 01815 ... 35692 10980 37593 Attention, rpt msg, out	USB	(AB)
10487	E11a	14-7	1710	Mon	957/30 Attention 85102 07606 01815 ... 35692 10980 37593	USB	(Danix)
14769	E11a	15-7	0530	Tue	986/10 Attention 01013 59410 45664 78727 85399 28160 05153 62326 27648 36462	USB	(Danix)
13722	E11a	15-7	1400	Tue	981/10 Attention 30953 71096 36204 59478 21806 97695 58767 23921 62856 39588 Attention, rpt msg, out	USB	(AB/GHn)
13722	E11a	15-7	1400	Tue	981/10 Attention 30953 71096 38204 59478 21806 97695 38767 23921 62856 39588	USB	(Danix)
8725	E11a	17-7	0820	Thu	436/38 Attention 83881 98269 01594 ... 96629 47857 63617	USB	(Danix)
10487	E11a	18-7	1710	Fri	953/21 Attention 22173 82964 26304 ... 59033 03546 60602	USB	(Danix)
14769	E11a	19-7	0530	Sat	980/10 Attention 93473 27419 26825 08679 20295 03494 19680 55227 51591 55182	USB	(Danix)
13722	E11a	19-7	1400	Sat	981/10 Attention 99490 39745 48508 14104 92978 42127 52184 97328 33952 09283	USB	(Danix)
14518	E11a	19-7	1810	Sat	982/10 Attention 04354 53939 14861 95745 80763 96302 06049 04866 25409 98848 Attention, msg rptd, out	USB	(AB)
9130	E11a	19-7	2005	Sat	364/31 Attention 51750 73771 46622 ... 56204 22003 96302	USB	(Danix)
9130	E11a	20-7	2005	Sun	364/31 Attention 51750 73771 46622 ... 56204 22003 96302	USB	(Danix)
9610	E11a	21-7	0745	Mon	269/30 Attention 46725 82223 01397 ... 07271 80217 81756	USB	(Danix)
9610	E11a	21-7	0745	Mon	269/30 Attention 46725 82223 01397 ... 07271 80217 81756 Attention, rpt msg, out	USB	(AB)
12924	E11a	21-7	0830	Mon	644/36 Attention 35392 36869 86916... 43689 49500 83267	USB	(Danix)
16388	E11a	21-7	1110	Mon	952/40 Attention 51534 37925 87792 ... 69687 34423 01880	USB	(Danix)
10487	E11a	21-7	1710	Mon	953/29 Attention 06428 97480 63071 ... 64221 24846 89578	USB	(Danix)
14769	E11a	22-7	0530	Tue	981/10 Attention 75715 51791 05329 34288 18500 46113 92925 60341 02600 68983	USB	(Danix)
13722	E11a	22-7	1400	Tue	985/10 Attention 62250 51759 79029 08256 41490 61755 15197 42780 25566 14756	USB	(Danix)
14518	E11a	22-7	1810	Tue	988/10 Attention 32893 28217 31199 03377 94926 79569 12059 09874 02590 73083	USB	(Danix)
13424	E11a	23-7	0545	Wed	340/34 Attention 62544 36853 56073 ... 00369 44353 02134	USB	(Danix)
14975	E11a	23-7	0805	Wed	371/34 Attention 54708 20927 51954 ... 37879 81341 86641	USB	(Danix)
4909	E11a	23-7	1445	Wed	288/38 Attention 79766 50102 30364 ... 09203 94387 42902	USB	(Danix)
4909	E11a	23-7	1445	Wed	###/36	USB	(HFD)
4909	E11a	24-7	0900	Thu	240/37 Attention 94308 18041 56072 ... 90897 17517 22852	USB	(Danix)
10356	E11a	24-7	1530	Thu	269/30 46725	USB	(HFD)

Freq.	Code	Date	UTC	Day	Remarks	Mode	Contributor
10356	E11a	24-7	1530	Thu	269/30 Attention 46725 82223 01397 ... 07271 80217 81756	USB	(Danix)
13424	E11a	25-7	0545	Fri	340/34 Attention 62544 36853 56073 ... 00369 44353 02134 silence (no "Attention") rpt msg started halfway the second group: 853 56073 etc, out	USB	(AB)
13424	E11a	25-7	0545	Fri	340/34 Attention 62544 36853 56073 ... 00369 44353 02134	USB	(Danix)
12924	E11a	25-7	0830	Fri	644/36 Attention 35392 36869 86916... 43689 49500 83267	USB	(Danix)
16388	E11a	25-7	1110	Fri	950/31 Attention ...	USB	(Eric)
10487	E11a	25-7	1710	Fri	953/21 Attention 01871 12066 39017 ... 68993 06912 85660	USB	(Danix)
14769	E11a	26-7	0530	Sat	983/10 Attention 49534 95662 01341 31503 04249 79753 78444 27992 52587 56035	USB	(Danix)
4909	E11a	26-7	0900	Sat	240/37 Attention 94308 18041 56072 ... 90897 17517 22852	USB	(Danix)
4909	E11a	26-7	1445	Sat	288/38 Attention 79766 50102 30364 ... 09203 94387 42902	USB	(Danix)
14518	E11a	26-7	1810	Sat	985/10 Attention 77832 30512 59002 50243 37860 04173 11881 47233 84424 69167	USB	(Danix)
9130	E11a	26-7	2005	Sat	363/00	USB	(Danix)
14975	E11a	27-7	0805	Sun	371/34 Attention 54708 20927 51954 ... 37879 81341 86641	USB	(Danix)
9130	E11a	27-7	2005	Sun	363/00	USB	(Danix)
13427	E11a	28-7	0900	Mon	537/30 Attention 74809 53209 75210 ... 95451 06684 65738	USB	(Danix)
16388	E11a	28-7	1110	Mon	952/39 Attention 78733 84418 32563 ... 26320 57873 56835	USB	(Danix)
14769	E11a	29-7	0530	Tue	980/10 Attention 23736 47824 77888 35217 10194 24154 12400 11213 90367 32187	USB	(Danix)
15632	E11a	29-7	0745	Tue	332/30 Attention 95282 85698 91738 ... 58731 18021 02065 Attention, rpt msg, out	USB	(AB/Danix)
10213	E11a	31-7	0930	Thu	270/32 Attention 82484 93520 93803 ... 06151 24726 13479 Attention, rpt msg, out	USB	(AB/Danix)
16780	E17z	3-7	0800	Thu	674 829 5 72663 46648 76529 01946 89891	H3E	(Danix)
16780	E17z	3-7	0800	Thu	674 829 5 72663 46648 76529 01946 89891 829 5 00000	USB	(AB)
12850	E17z	3-7	0810	Thu	674 829 5 72663 46648 76529 01946 89891	H3E	(Danix)
16780	E17z	10-7	0800	Thu	674 829 5 72663 46648 76529 01946 89891	H3E	(Danix)
16780	E17z	10-7	0800	Thu	674 829 5 72663 46648 76529 01946 89891 829 5 00000	USB	(AB)
12850	E17z	10-7	0810	Thu	674 829 5 72663 46648 76529 01946 89891	H3E	(Danix)
16780	E17z	17-7	0800	Thu	674 830 5 47665 94092 48521 63888 92060	H3E	(Danix)
12850	E17z	17-7	0810	Thu	674 830 5 47665 94092 48521 63888 92060	H3E	(Danix)
16780	E17z	24-7	0800	Thu	674 830 5 47665 94092 48521 63888 92060	H3E	(Danix)
12850	E17z	24-7	0810	Thu	674 830 5 47665 94092 48521 63888 92060	H3E	(Danix)
16780	E17z	31-7	0800	Thu	674 830 5 47665 94092 48521 63888 92060	H3E	(Danix)
12850	E17z	31-7	0810	Thu	674 830 5 47665 94092 48521 63888 92060	H3E	(Danix)
16223.7	EGY	7-7	1843	Mon	Egyptian diplo i.p. Ends: 97488 1c477 6800e 04c32 a727e nnnn. rd~ hjkj ths 22222 ////111111 huxd	SITOR-A 100/170	(MPJ)
20035	EGY	21-7	1238	Mon	44405: Egyptian embassy, Islamabad tfc to 99903: MFA Cairo	CODAN 16-tones	(MCO)
16023.6	EGY	27-7	1418	Sun	MFA Cairo. Short msg to embassy Kuwait (TVVS)	SITOR-A 100/170	(AAI)
6948	G06	30-6	0800		215 00000	H3E	(Danix)
5837	G06	3-7	1300	Thu	215 215 215 00000	H3E	(Danix)
10186	G06	4-7	1900	Fri	167 167 167 00000	H3E	(Danix)
8134	G06	4-7	2000	Fri	167 167 167 00000	H3E	(Danix)
6948	G06	7-7	0800	Mon	215 215 215 00000	H3E	(Danix)
5412	G06	7-7	1700	Mon	367 367 367 00000	USB	(AB)
5412	G06	7-7	1700	Mon	367 367 367 00000	H3E	(Danix)
5783	G06	7-7	1800	Mon	367 367 367 00000	USB	(AB)
5783	G06	7-7	1800	Mon	367 367 367 00000	H3E	(Danix)
5837	G06	10-7	1300	Thu	215 215 215 00000	H3E	(Danix)
5943	G06	11-7	1930	Fri	218 347 20 37839 35787 98273 ... 60491 75924 04594 347 20 00000	H3E	(Danix)
6948	G06	14-7	0800	Mon	215 215 215 00000	H3E	(Danix)
5412	G06	14-7	1700	Mon	367 367 367 00000	H3E	(Danix)
5783	G06	14-7	1800	Mon	367 367 367 00000	H3E	(Danix)
5837	G06	17-7	1300	Thu	215 215 215 00000	USB	(AB)
5837	G06	17-7	1300	Thu	215 215 215 00000	H3E	(Danix)
10186	G06	18-7	1900	Fri	167 167 167 00000	H3E	(Danix)
8134	G06	18-7	2000	Fri	167 167 167 00000	H3E	(Danix)
6948	G06	21-7	0800	Mon	215 215 215 00000	H3E	(Danix)
6948	G06	21-7	0800	Mon	215 215 215 00000	USB	(AB)
5837	G06	24-7	1300	Thu	215 215 215 00000	H3E	(Danix)
6887	G06	24-7	1830	Thu	842 931 20 06132 75514 79681 ... 49870 63962 04884 931 20 00000	H3E	(Danix)
6948	G06	28-7	0800	Mon	215 215 215 00000	H3E	(Danix)

Freq.	Code	Date	UTC	Day	Remarks	Mode	Contributor
9065	HM01	28-6	0814		28629 07712 57251 34031 55525 14421	AM/RDFT	(EW)
14375	HM01	1-7	0500	Tue	56458 44701 75471 28267 82043 83757 Loud & clear; no chg from 06/30	AM/RDFT	(SFNY)
13435	HM01	1-7	0700	Tue	56458 44701 75471 28267 82043 83757	AM/RDFT	(AB)
11435	HM01	1-7	1604	Tue	56459 44702 75471 28268 82044 83758	AM/RDFT	(DSch)
11635	HM01	1-7	1635	Tue	56459 44702 75471 28268 82044 83758	AM/RDFT	(DSch)
11530	HM01	1-7	1713	Tue	56459 44702 75471 28268 82044 83758	AM/RDFT	(DSch)
11635	HM01	1-7	1802	Tue	56459 44702 75471 28268 82044 83758	AM/RDFT	(DSch)
16180	HM01	1-7	2103	Tue	56459 44702 75471 28268 82044 83758	AM/RDFT	(DSch)
17480	HM01	1-7	2157	Tue	56459 44702 75471 28268 82044 83758	AM/RDFT	(DSch)
10345	HM01	2-7	0600	Wed	56459 44702 75471 28268 82044 83758	AM/RDFT	(AB)
10345	HM01	2-7	0600	Wed	56459 44702 75471 26268 82044 83758 Signal fading; # 3 unchanged	AM/RDFT	(SFNY)
9330	HM01	2-7	0700	Wed	56459 44702 75471 28268 82044 83758	AM/RDFT	(AB)
11435	HM01	2-7	1604	Wed	56459 44702 75471 28268 82044 83758	AM/RDFT	(DSch)
11530	HM01	2-7	1737	Wed	56459 44702 75471 28268 82044 83758	AM/RDFT	(DSch)
11635	HM01	2-7	1800	Wed	56459 44702 75471 28268 82044 83758	AM/RDFT	(DSch)
11635	HM01	2-7	2101	Wed	56459 44702 75471 28268 82044 83758	AM/RDFT	(DSch)
10715	HM01	2-7	2248	Wed	56459 44702 75471 28268 82044 83758	AM/RDFT	(DSch)
14375	HM01	3-7	0500	Thu	56459 44702 75471 28268 82044 83758	AM/RDFT	(AB)
14375	HM01	3-7	0600	Thu	56459 44702 75471 26268 82044 83758	AM/RDFT	(SFNY)
13435	HM01	3-7	0700	Thu	56459 44702 75471 28268 82044 83758	AM/RDFT	(AB)
11635	HM01	3-7	0827	Thu	56459 44702 75471 28268 82044 83758	AM/RDFT	(AB)
11462	HM01	3-7	0900	Thu	56459 44702 75471 28268 82044 83758	AM/RDFT	(AB)
11435	HM01	3-7	1643	Thu	56459 44702 75471 28268 82044 83758	AM/RDFT	(DSch)
11530	HM01	3-7	1708	Thu	56459 44702 75471 28268 82044 83758	AM/RDFT	(DSch)
11635	HM01	3-7	1803	Thu	56459 44702 75471 28268 82044 83758	AM/RDFT	(DSch)
16180	HM01	3-7	2101	Thu	56459 44702 75471 28268 82044 83758	AM/RDFT	(DSch)
17480	HM01	3-7	2208	Thu	56459 44702 75471 28268 82044 83758	AM/RDFT	(DSch)
5855	HM01	4-7	0600	Fri	56459 44702 75471 26268 82044 83758	AM/RDFT	(SFNY)
9330	HM01	4-7	0700	Fri	56459 44702 75471 28268 82044 83758	AM/RDFT	(AB)
11435	HM01	4-7	1600	Fri	56459 44702 75471 28268 82044 83758	AM/RDFT	(DSch)
11530	HM01	4-7	1730	Fri	56459 44702 75471 28268 82044 83758	AM/RDFT	(DSch)
11635	HM01	4-7	1804	Fri	56459 44702 75471 28268 82044 83758	AM/RDFT	(DSch)
11635	HM01	4-7	2104	Fri	Very brief music, then YL/SS Uno Uno Uno, then 56459 44702 75471 28268 82044 83758	AM/RDFT	(DSch)
10715	HM01	4-7	2200	Fri	56459 44702 75471 28268 82044 83758	AM/RDFT	(DSch)
14375	HM01	5-7	0600	Sat	56459 44702 75471 26268 82044 83758	AM/RDFT	(SFNY)
14375	HM01	5-7	0616	Sat	i.p. 56459 44702 75471 28268 82044 83758	AM/RDFT	(EW)
13435	HM01	5-7	0700	Sat	56459 44702 75471 28268 82044 83758	AM/RDFT	(AB)
11435	HM01	5-7	1616	Sat	56459 44702 75471 28268 82044 83758	AM/RDFT	(DSch)
11530	HM01	5-7	1701	Sat	56459 44702 75471 28268 82044 83758	AM/RDFT	(DSch)
11635	HM01	5-7	1800	Sat	56459 44702 75471 28268 82044 83758	AM/RDFT	(DSch)
16180	HM01	5-7	2101	Sat	56459 44702 75471 28268 82044 83758	AM/RDFT	(DSch)
17480	HM01	5-7	2200	Sat	56459 44702 75471 28268 82044 83758	AM/RDFT	(DSch)
10345	HM01	6-7	0600	Sun	56459 44702 75471 26268 82044 83758	AM/RDFT	(SFNY)
11435	HM01	6-7	1602	Sun	56459 44702 75471 28268 82044 83758	AM/RDFT	(DSch)
11530	HM01	6-7	1703	Sun	56459 44702 75471 28268 82044 83758	AM/RDFT	(DSch)
11635	HM01	6-7	1800	Sun	56459 44702 75471 28268 82044 83758	AM/RDFT	(DSch)
10715	HM01	6-7	2200	Sun	56459 44702 75471 28268 82044 83758	AM/RDFT	(Dan)
10345	HM01	7-7	0600	Mon	56459 44702 75471 26268 82044 83758	AM/RDFT	(SFNY)
11435	HM01	7-7	1615	Mon	56459 44702 75471 28268 82044 83758	AM/RDFT	(DSch)
11530	HM01	7-7	1740	Mon	56459 44702 75471 28268 82044 83758	AM/RDFT	(DSch)
11635	HM01	7-7	1802	Mon	56459 44702 75471 28268 82044 83758	AM/RDFT	(DSch)
14375	HM01	8-7	0500	Tue	57521 07372 38121 08777 38084 78148	AM/RDFT	(SFNY)
5855	HM01	9-7	0500	Wed	57521 07373 38122 08778 38085 07701	AM/RDFT	(SFNY)
9065	HM01	9-7	0943	Wed		AM/RDFT	(LG2)
14375	HM01	10-7	0500	Thu	57521 07373 38122 08778 38085 07701	AM/RDFT	(SFNY)
11530	HM01	14-7	1700	Mon	57521 07373 38122 08778 38085 07701	AM/RDFT	(Danix)
11635	HM01	14-7	2123	Mon	5-digit Spanish YL numbers is stuck on only two of them: 2s and 3s over and over and over	AM/RDFT	(GHau)
14375	HM01	15-7	0500	Tue	57521 07373 38122 08778 38085 07701	AM/RDFT	(SFNY)
14375	HM01	15-7	0500	Tue	57521 07373 38122 08778 38085 07701	AM/RDFT	(SFNY)
14375	HM01	15-7	0600	Tue	57521 07373 38122 08778 38085 07701	AM/RDFT	(AB/EW)

Freq.	Code	Date	UTC	Day	Remarks	Mode	Contributor
13435	HM01	15-7	0700	Tue	57521 07373 38122 08778 38085 07701	AM/RDFT	(AB)
11635	HM01	15-7	0800	Tue	57521 07373 38122 08778 38085 07701	AM/RDFT	(AB)
5855	HM01	16-7	0500	Wed	Carrier up at 0500. Txm starts at 0505 UTC: 57522 07374 38123 12511 38086 07701	AM/RDFT	(AB)
5855	HM01	16-7	0500	Wed	57522 07374 38123 12511 38086 07701	AM/RDFT	(SFNY)
9155	HM01	16-7	1053	Wed	i.p.	AM/RDFT	(Rusl)
14375	HM01	17-7	0500	Thu	57523 07375 38124 12511 38087 07702	AM/RDFT	(SFNY)
5855	HM01	18-7	0500	Fri	57524 07376 38125 12512 38088 07703	AM/RDFT	(SFNY)
5855	HM01	18-7	0535	Fri		AM/RDFT	(SDX)
10345	HM01	18-7	0535	Fri		AM/RDFT	(SDX)
9065	HM01	18-7	0800	Fri	57524 07376 38125 12512 38088 07703	AM/RDFT	(AB)
5955	HM01	18-7	1030	Fri	//9155 kHz	AM/RDFT	(KA1IIC)
9155	HM01	18-7	1030	Fri	//5955 kHz	AM/RDFT	(KA1IIC)
11435	HM01	18-7	1616	Fri	57525 07377 38126 12513 70631 07704	AM/RDFT	(DSch)
11530	HM01	18-7	1700	Fri	57525 07377 38126 12513 70631 07704	AM/RDFT	(DSch)
16335	HM01	18-7	1801	Fri	57525 07377 38126 12513 70631 07704	AM/RDFT	(DSch)
16335	HM01	18-7	2105	Fri	57525 07377 38126 12513 70631 07704	AM/RDFT	(DSch)
14375	HM01	19-7	0500	Sat	57525 07377 38126 12513 70631 07704	AM/RDFT	(SFNY)
14375	HM01	19-7	0602	Sat		AM/RDFT	(rusl)
11435	HM01	19-7	1603	Sat	57526 07378 38127 12514 70631 07705	AM/RDFT	(DSch)
11530	HM01	19-7	1711	Sat	57526 07378 38127 12514 70631 07705	AM/RDFT	(DSch)
11635	HM01	19-7	1805	Sat	57526 07378 38127 12514 70631 07705	AM/RDFT	(DSch)
16180	HM01	19-7	2101	Sat	57526 07378 38127 12514 70631 07705. Stopped at 2201 UTC	AM/RDFT	(DSch)
17480	HM01	19-7	2205	Sat	57526 07378 38127 12514 70631 07705. Late start	AM/RDFT	(DSch)
5855	HM01	20-7	0500	Sun	57526 07378 38127 12514 70631 07705	AM/RDFT	(SFNY)
9065	HM01	20-7	0800	Sun	57526 07378 38127 12514 70631 07705	AM/RDFT	(AB)
9065	HM01	20-7	0940	Sun	i.p.	AM/RDFT	(rusl)
9240	HM01	20-7	0940	Sun	i.p.	AM/RDFT	(rusl)
11435	HM01	20-7	1601	Sun	57527 07379 38128 12515 70632 07706	AM/RDFT	(DSch)
11530	HM01	20-7	1700	Sun	57527 07379 38128 12515 70632 07706	AM/RDFT	(DSch)
11635	HM01	20-7	1800	Sun	57527 07379 38128 12515 70632 07706	AM/RDFT	(DSch)
11635	HM01	20-7	2100	Sun	57527 07379 38128 12515 70632 07706	AM/RDFT	(DSch)
10715	HM01	20-7	2200	Sun	57527 07379 38128 12515 70632 07706	AM/RDFT	(DSch/Dan)
5855	HM01	21-7	0500	Mon	57527 07379 38128 12515 70632 07706	AM/RDFT	(SFNY)
10345	HM01	21-7	0600	Mon	57527 07379 38128 12515 70632 07706	AM/RDFT	(AB)
9330	HM01	21-7	0700	Mon	57527 07379 38128 12515 70632 07706	AM/RDFT	(AB)
11435	HM01	21-7	1600	Mon	57528 73871 38129 12516 70633 07707	AM/RDFT	(DSch)
11530	HM01	21-7	1700	Mon	57528 73871 38129 12516 70633 07707	AM/RDFT	(DSch)
11635	HM01	21-7	1800	Mon	57528 73871 38129 12516 70633 07707	AM/RDFT	(DSch)
11635	HM01	21-7	2123	Mon	57528 73871 38129 12516 70633 07707	AM/RDFT	(DSch)
10715	HM01	21-7	2241	Mon	57528 73871 38129 12516 70633 07707	AM/RDFT	(DSch)
14375	HM01	22-7	0500	Tue	57528 73871 38129 12516 70633 07707	AM/RDFT	(SFNY)
14375	HM01	22-7	0505	Tue	57528 73871 38129 12517 70633 07707	AM/RDFT	(KC2TTK)
11635	HM01	22-7	0800	Tue	57528 73871 38129 12517 70633 07707	AM/RDFT	(AB)
11462	HM01	22-7	0900	Tue	57528 73871 38129 12517 70633 07707	AM/RDFT	(AB)
11635	HM01	22-7	1022	Tue	57528 73871 38129 12516 70633 07707 not in sync with 12180 kHz	AM/RDFT	(DSch)
12180	HM01	22-7	1022	Tue	57528 73871 38129 12516 70633 07707 not in sync with 11635 kHz	AM/RDFT	(DSch)
11435	HM01	22-7	1634	Tue	57528 73871 38129 12516 70633 07707	AM/RDFT	(DSch)
11530	HM01	22-7	1707	Tue	57528 73871 38129 12516 70633 07707	AM/RDFT	(DSch)
11635	HM01	22-7	1817	Tue	57528 73871 38129 12516 70633 07707	AM/RDFT	(DSch)
17480	HM01	22-7	2200	Tue	68158 24467 55523 54737 28627 07711	AM/RDFT	(Dan)
10345	HM01	23-7	0600	Wed	28627 07711 68158 24467 55523 54737	AM/RDFT	(AB)
10345	HM01	23-7	0600	Wed	28627 07711 68158 24467 55523 54737	AM/RDFT	(SFNY)
9330	HM01	23-7	0700	Wed	28627 07711 68158 24467 55523 54737	AM/RDFT	(AB)
9065	HM01	23-7	0800	Wed	28627 07711 68158 24467 55523 54737	AM/RDFT	(AB)
11435	HM01	23-7	1602	Wed	28628 07711 68159 24468 55524 54738	AM/RDFT	(DSch)
11530	HM01	23-7	1715	Wed	28628 07711 68159 24468 55524 54738	AM/RDFT	(DSch)
11635	HM01	23-7	1801	Wed	28628 07711 68159 24468 55524 54738	AM/RDFT	(DSch)
11635	HM01	23-7	2100	Wed	28628 07711 68159 24468 55524 54738	AM/RDFT	(DSch)
10715	HM01	23-7	2209	Wed	28628 07711 68159 24468 55524 54738	AM/RDFT	(DSch)
14375	HM01	24-7	0500	Thu	28628 07711 68159 24468 55524 54738	AM/RDFT	(AB)
14375	HM01	24-7	0600	Thu	28628 07711 68159 24468 55524 54738	AM/RDFT	(AB)

Freq.	Code	Date	UTC	Day	Remarks	Mode	Contributor
13435	HM01	24-7	0700	Thu	28628 07711 68159 24468 55524 54738	AM/RDFT	(AB)
11462	HM01	24-7	0900	Thu	28628 07711 68159 24468 55524 54738	AM/RDFT	(AB)
12180	HM01	24-7	1019	Thu	i.p., barely audible	AM/RDFT	(AB)
11435	HM01	24-7	1701	Thu	28629 0771 56251 34031 55525 14421	AM/RDFT	(BW3)
11635	HM01	24-7	1805	Thu	28629 07712 56251 34031 55525 14421	AM/RDFT	(DSch)
16180	HM01	24-7	2100	Thu	28629 07712 56251 34031 55525 14421	AM/RDFT	(DSch)
17480	HM01	24-7	2200	Thu	28629 07712 56251 34031 55525 14421	AM/RDFT	(DSch/Dan)
5855	HM01	25-7	0500	Fri	28629 07712 57251 34031 55525 14421	AM/RDFT	(AB/SFNY)
10345	HM01	25-7	0500	Fri	28629 07712 57251 34031 55525 14421	AM/RDFT	(SFNY)
10345	HM01	25-7	0600	Fri	28629 07712 57251 34031 55525 14421	AM/RDFT	(AB/SFNY)
9330	HM01	25-7	0700	Fri	28629 07712 57251 34031 55525 14421	AM/RDFT	(AB/SFNY)
9240	HM01	25-7	0900	Fri	28629 07712 57251 34031 55525 14421	AM/RDFT	(AB)
8096	HM01	25-7	1411	Fri	Tuning at 1411 UTC but no traffic		(DSch)
11435	HM01	25-7	1641	Fri	28629 0771 56251 34031 55525 14421	AM/RDFT	(DSch)
11530	HM01	25-7	1700	Fri	28629 0771 56251 34031 55525 14421. Should be on 11635 kHz. Switched to 11735 kHz at 1804 UTC	AM/RDFT	(DSch)
11530	HM01	25-7	1700	Fri	28629 0771 56251 34031 55525 14421	AM/RDFT	(DSch)
11635	HM01	25-7	1804	Fri	28629 0771 56251 34031 55525 14421	AM/RDFT	(DSch)
11635	HM01	25-7	2102	Fri	28629 0771 56251 34031 55525 14421	AM/RDFT	(DSch)
10715	HM01	25-7	2200	Fri	28629 0771 56251 34031 55525 14421	AM/RDFT	(DSch)
11462	HM01	26-7	0500	Sat	28629 07712 57251 34031 55525 14421	AM/RDFT	(SFNY)
11435	HM01	26-7	1602	Sat	28629 0771 56251 34031 55525 14421	AM/RDFT	(DSch)
11530	HM01	26-7	1700	Sat	28629 0771 56251 34031 55525 14421	AM/RDFT	(DSch)
11635	HM01	26-7	1800	Sat	28629 0771 56251 34031 55525 14421	AM/RDFT	(DSch)
5855	HM01	27-7	0500	Sun	28629 07712 57251 34031 55525 14421	AM/RDFT	(SFNY)
11435	HM01	27-7	1635	Sun	28629 07712 57251 34031 55525 14421	AM/RDFT	(DSch)
11530	HM01	27-7	1700	Sun	28629 07712 57251 34031 55525 14421	AM/RDFT	(DSch)
11635	HM01	27-7	1800	Sun	28629 07712 57251 34031 55525 14421	AM/RDFT	(DSch)
11635	HM01	27-7	2109	Sun	28629 07712 57251 34031 55525 14421	AM/RDFT	(DSch)
10715	HM01	27-7	2200	Sun	28629 07712 57251 34031 55525 14421	AM/RDFT	(DSch/Dan)
5855	HM01	28-7	0500	Mon	28629 07712 57251 34031 55525 14421	AM/RDFT	(SFNY)
9065	HM01	28-7	0814	Mon	i.p.	AM/RDFT	(EW)
11435	HM01	28-7	1605	Mon	28629 07712 57251 34031 55525 14421	AM/RDFT	(DSch)
11530	HM01	28-7	1704	Mon	28629 07712 57251 34031 55525 14421	AM/RDFT	(DSch)
11635	HM01	28-7	1805	Mon	28629 07712 57251 34031 55525 14421	AM/RDFT	(DSch)
11635	HM01	28-7	2100	Mon	Transmitter tuned but no traffic	AM/RDFT	(DSch/HS)
10715	HM01	28-7	2200	Mon	28629 07712 57251 34031 55525 14421. Suddenly cut off at 2209z. Carrier back up at 2219z. Audio back at 2222z	AM/RDFT	(HS)
11435	HM01	29-7	1603	Tue	28629 07712 57251 34031 55525 14421	AM/RDFT	(DSch)
11530	HM01	29-7	1702	Tue	28629 07712 57251 34031 55525 14421 28629 etc wk sig, fading 29702	AM/RDFT	(DSch)
11635	HM01	29-7	1803	Tue	28629 07712 57251 34031 55525 14421 28629 etgc 291803	AM/RDFT	(DSch)
16180	HM01	29-7	2137	Tue	83121 07713 57251 34031 55526 14421 at 292137	AM/RDFT	(DSch)
17480	HM01	29-7	2200	Tue	83121 07713 57251 34031 55526 14421 83121 etc 292212	AM/RDFT	(DSch/Dan)
8135	HM01	29-7	2301	Tue	YL/SS in LSB 83121 07713 57251 34031 55526 14421 then RDFT	LSB/RDFT	(DSch)
5855	HM01	30-7	0500	Wed	83121 07713 57251 34031 55526 14421. Late start at 0504 UTC	AM/RDFT	(AB/SFNY)
10345	HM01	30-7	0600	Wed	83121 07713 57251 34031 55526 14421	AM/RDFT	(AB)
9330	HM01	30-7	0700	Wed	83121 07713 57251 34031 55526 14421	AM/RDFT	(AB)
9065	HM01	30-7	0800	Wed	83121 07713 57251 34031 55526 14421	AM/RDFT	(AB)
11435	HM01	30-7	1602	Wed	83122 07714 57252 34032 55527 14422	AM/RDFT	(DSch)
11530	HM01	30-7	1740	Wed	83122 07714 57252 34032 55527 14422	AM/RDFT	(DSch)
11635	HM01	30-7	1806	Wed	83122 07714 57252 34032 55527 14422	AM/RDFT	(DSch)
11635	HM01	30-7	2101	Wed	83122 07714 57252 34032 55527 14422	AM/RDFT	(DSch)
14375	HM01	31-7	0500	Thu	83122 07714 57252 34032 55527 14422. Late start at 0505z	AM/RDFT	(AB/SFNY)
14375	HM01	31-7	0600	Thu	83122 07714 57252 34032 55527 14422	AM/RDFT	(AB)
13435	HM01	31-7	0700	Thu	83122 07714 57252 34032 55527 14422	AM/RDFT	(AB)
11635	HM01	31-7	0800	Thu	83122 07714 57252 34032 55527 14422	AM/RDFT	(AB)
11462	HM01	31-7	0900	Thu	83122 07714 57252 34032 55527 14422	AM/RDFT	(AB)
11635	HM01	31-7	1000	Thu	83122 07714 57252 34032 55527 14422 //12180 kHz	AM/RDFT	(AB)
12180	HM01	31-7	1000	Thu	83122 07714 57252 34032 55527 14422 //11635 kHz	AM/RDFT	(AB)
10233	M01	27-6	0629		333	CW	(BCI)
5280	M01	1-7	1800	Tue	025 764 30 == 57045 83576 52706 ... 06995 89432 63015 == 764 30 0 0 0	CW	(Danix)
4905	M01	3-7	2000	Thu	025 741 741 30 30 == == 80711 54144 30318 ... 42479 01770 44951 == ==	CW	(Danix)

Freq.	Code	Date	UTC	Day	Remarks	Mode	Contributor
					741 741 30 30 000 000		
6435	M01	5-7	1500	Sat	025 732 30 == 67832 63341 34030 ... 75311 18217 45346 == 732 30 000	CW	(AB)
6780	M01	6-7	0700	Sun	025 183 30 == 24454 35336 86345 ... 14099 18056 79250 == 183 30 000	CW	(AB)
6780	M01	6-7	0700	Sun	025 183 30 == 54944 35336 86345 ... 14099 18056 79250 == 183 30 0 0 0	CW	(Danix)
4905	M01	8-7	2000	Tue	025 227 30 == 46537 76009 29059 ... 71580 74257 18537 == 227 30 0 0 0	CW	(Danix)
6435	M01	12-7	1500	Sat	025 730 30 == 97623 06933 55024 ... 93846 72813 61103 == 730 30 0 0 0	CW	(Danix)
6435	M01	19-7	1503	Sat	i.p.	CW	(AB)
5280	M01	22-7	1800	Tue	025 307 30 == 31357 80829 32817 ... 82137 93502 34327 == 307 30 0 0 0	CW	(Danix)
4905	M01	22-7	2000	Tue	025 605 30 == 88900 ???9 12531 ... 10864 46816 29144 == 605 30 0 0 0	CW	(Danix)
5095	M01b	3-7	1832	Thu	815 717 32 == 06351 25664 24402 ... 08482 66619 62397 35680 == 717 32 0 0 CW 0		(Danix)
5760	M01b	3-7	1832	Thu	815 717 32 == 06351 25664 24402 ... 08482 66619 62397 35680 == 717 32 0 0 CW 0		(Danix)
5075	M01b	4-7	1902	Fri	336 717 32 == 06351 25664 24402 ... 08482 66619 62397 35680 == 717 32 0 0 CW 0		(Danix)
5465	M01b	4-7	1902	Fri	336 717 32 == 06351 25664 24402 ... 08482 66619 62397 35680 == 717 32 0 0 CW 0		(Danix)
5075	M01b	11-7	1902	Fri	336 717 32 == 06351 25664 24402 ... 08482 66619 62397 35680 == 717 32 0 0 CW 0		(Danix)
5465	M01b	11-7	1902	Fri	336 717 32 == 06351 25664 24402 ... 08482 66619 62397 35680 == 717 32 0 0 CW 0		(Danix)
5125	M01b	14-7	1810	Mon	364 717 32 == 06351 25664 24402 ... 08482 66619 62397 35680 == 717 32 0 0 CW 0		(Danix)
5735	M01b	14-7	1810	Mon	364 717 32 == 06351 25664 24402 ... 08482 66619 62397 35680 == 717 32 0 0 CW 0		(Danix)
5125	M01b	21-7	1810	Mon	364 320 30 == 86183 82219 53101 ... 82497 49475 57346 == 320 30 0 0 0	CW	(Danix)
5735	M01b	21-7	1810	Mon	364 320 30 == 86183 82219 53101 ... 82497 49475 57346 == 320 30 0 0 0	CW	(Danix)
5150	M01b	21-7	1915	Mon	858 320 30 == 86183 82219 53101 ... 82497 49475 57346 == 320 30 0 0 0	CW	(Danix)
5475	M01b	21-7	1915	Mon	858 320 30 == 86183 82219 53101 ... 82497 49475 57346 == 320 30 0 0 0	CW	(Danix)
5095	M01b	24-7	1832	Thu	815 320 30 == 86183 82219 53101 ... 82497 49475 57346 == 320 30 0 0 0	CW	(Danix)
5760	M01b	24-7	1832	Thu	815 320 30 == 86183 82219 53101 ... 82497 49475 57346 == 320 30 0 0 0	CW	(Danix)
5075	M01b	25-7	1902	Fri	336 320 30 == 86183 82219 53101 ... 82497 49475 57346 == 320 30 0 0 0	CW	(Danix)
5465	M01b	25-7	1902	Fri	336 320 30 == 86183 82219 53101 ... 82497 49475 57346 == 320 30 0 0 0	CW	(Danix)
4895	M01b	25-7	2010	Fri	467 320 30 == 86183 82219 53101 ... 82497 49475 57346 == 320 30 0 0 0	CW	(Danix)
5340	M01b	25-7	2010	Fri	467 320 30 == 86183 82219 53101 ... 82497 49475 57346 == 320 30 0 0 0	CW	(Danix)
5125	M01b	28-7	1810	Mon	364 320 30 == 86183 82219 53101 ... 82497 49475 57346 == 320 30 0 0 0	CW	(Danix)
5735	M01b	28-7	1810	Mon	364 320 30 == 86183 82219 53101 ... 82497 49475 57346 == 320 30 0 0 0	CW	(Danix)
9411	M01c	4-7	0533	Fri	675 675 675 99379 99379	CW	(BCI)
7727	M03	30-6	1320		543/00	CW	(Danix)
6524	M03	1-7	1535	Tue	798/00	CW	(Danix)
7837	M03	2-7	1115	Wed	655/35 == 26771 05639 04043 ... 68768 69146 53866	CW	(Danix)
7727	M03	2-7	1320	Wed	543/00	CW	(Danix)
7837	M03	3-7	1115	Thu	655/35 == 26771 05639 04043 ... 68768 69146 53866	CW	(Danix)
7837	M03	3-7	1320	Thu	437/34 == 27826 92236 19506 ... 92048 55345 35677	CW	(Danix)
6524	M03	5-7	1535	Sat	798/00	CW	(Danix)
7837	M03	6-7	1320	Sun	437/34 == 27826 92236 19506 ...	CW	(AB)
7837	M03	6-7	1320	Sun	437/34 == 27826 92236 19506 ... 92048 55345 35677	CW	(Danix)
6524	M03	8-7	1535	Tue	798/00	CW	(Danix)
7837	M03	9-7	1115	Wed	650/00	CW	(Danix)
7727	M03	9-7	1320	Wed	543/00	CW	(Danix)
7727	M03	9-7	1320	Wed	543/00	CW	(HFD)
7837	M03	10-7	1115	Thu	650/00	CW	(Danix)
7837	M03	10-7	1320	Thu	437/00	CW	(Danix)
6524	M03	12-7	1535	Sat	798/00	CW	(Danix)
7837	M03	13-7	1320	Sun	437/00	CW	(Danix)
7727	M03	14-7	1320	Mon	542/32 == 13754 45626 63793 ... 80246 47127 42136	CW	(Danix)
6524	M03	15-7	1535	Tue	797/34 == 77034 55490 57707 ... 58006 96967 38332	CW	(Danix)
6524	M03	15-7	1535	Tue	797/34 == 77034 55490 57707 ... 58006 96967 38332 == 000	CW	(AB)
7837	M03	16-7	1115	Wed	650/00	CW	(Danix)
7837	M03	16-7	1115	Wed	650/00 == 000	CW	(AB)
7727	M03	16-7	1320	Wed	542/32 == 13754 45626 63793 ... 80246 47127 42136	CW	(Danix)
7837	M03	17-7	1115	Thu	650/00	CW	(Danix)
7837	M03	17-7	1115	Thu	650/00 == 000	CW	(AB)

Freq.	Code	Date	UTC	Day	Remarks	Mode	Contributor
7837	M03	17-7	1320	Thu	437/00	CW	(Danix)
6524	M03	19-7	1535	Sat	797/34 = = 77034 55490 57707 ... 58006 96967 38332	CW	(Danix)
6524	M03	19-7	1535	Sat	797/34 = = 77034 55490 57707 ... 58006 96967 38332 = = 000	CW	(AB)
7837	M03	20-7	1320	Sun	437/00	CW	(Danix)
7727	M03	21-7	1320	Mon	VVV at 1313 UTC. 543/00	CW	(AB)
7727	M03	21-7	1320	Mon	543/00	CW	(Danix)
6524	M03	22-7	1535	Tue	798/00 Started on 6525 CW. 40 seconds later it stopped, then changed to 6524 CW. They didn't restart the transmission in the process.	CW	(Danix)
7837	M03	23-7	1115	Wed	650/00	CW	(Danix)
7727	M03	23-7	1320	Wed	543/00	CW	(Danix)
7837	M03	24-7	1115	Thu	650/00	CW	(Danix)
7837	M03	24-7	1320	Thu	437/00	CW	(Danix)
6524	M03	26-7	1535	Sat	798/00	CW	(Danix)
7837	M03	27-7	1320	Sun	437/00	CW	(Danix)
7727	M03	28-7	1320	Mon	543/00	CW	(Danix)
7837	M03	31-7	1115	Thu	650/00	CW	(AB)
7554	M08a	1-7	2001	Tue	NUUDN DUGWA UTNA	CW	(DSch)
8135	M08a	1-7	2300	Tue	IDGGA GRNNN TTRUN	CW	(DSch)
8096	M08a	2-7	1402	Wed	RNNNN TWRWA TGTIN	CW	(DSch)
8096	M08a	3-7	1406	Thu	Very bad keying, unreadable	CW	(DSch)
7554	M08a	3-7	2002	Thu	RAGTN GDDNA TRRW N	CW	(DSch)
8135	M08a	3-7	2302	Thu	ANANA NWUUN DRAIN	CW	(DSch)
8096	M08a	6-7	1444	Sun	Cuban cut nbrs	CW	(DSch)
7554	M08a	6-7	2004	Sun	Cuban cut nbrs	CW	(DSch)
8097	M08a	14-7	1400	Mon	????? 13562 26832	CW	(Danix)
7554	M08a	17-7	2004	Thu	Tuning at 2004z. CW at 2013z: AGNRW NNWTA DWTNN	CW	(DSch)
7554	M08a	18-7	2011	Fri	Cuban cut nbrs	CW	(DSch)
8135	M08a	18-7	2320	Fri	Cuban cut nbrs	CW	(DSch)
8097	M08a	19-7	1409	Sat	Cuban cut nbrs RIGMT ANDUW	CW	(DSch)
8135	M08a	20-7	2310	Sun	Cuban cut nbrs. No callup, went right into text	CW	(DSch)
8009	M08a	21-7	2322	Mon	Cuban cut nbrs	CW	(DSch)
7554	M08a	25-7	2000	Fri	Cuban cut nbrs. ARNNN DIGWN UADIA	CW	(DSch)
8135	M08a	25-7	2309	Fri	Cuban cut nbrs	CW	(DSch)
8096	M08a	26-7	1405	Sat	Cuban cut nbrs	CW	(DSch)
7554	M08a	26-7	2003	Sat	Cuban cut nbrs. AGNRN NNWTA DWTNN	CW	(DSch)
8135	M08a	26-7	2305	Sat	Cuban cut nbrs	CW	(DSch)
8135	M08a	27-7	2304	Sun	Tuning and then into CW at 2304z	CW	(DSch)
8009	M08a	28-7	2321	Mon	Cuban cut nbrs	CW	(DSch)
8096	M08a	29-7	1401	Tue	Cuban cut nrs: UAAUA WUWRN RIGTN	CW	(DSch)
7554	M08a	29-7	2001	Tue	Cuban cut nrs: WRNIA RTWAN IDGUA	CW	(DSch)
8009	M08a	30-7	2301	Wed	Cuban cut nbrs. IGRWN GDRIN RW NDA	CW	(DSch)
10343	M12	1-7	1830	Tue	124 1	CW	(HFD)
9264	M12	1-7	1850	Tue	124 1	CW	(HFD)
8116	M12	1-7	1910	Tue	124 1	CW	(HFD)
11435	M12	2-7	1830	Wed	938 1	CW	(HFD)
10598	M12	2-7	1850	Wed	938 1	CW	(HFD)
9327	M12	2-7	1910	Wed	938 1	CW	(HFD)
13926	M12	5-7	1310	Sat	919 919 919 000	CW	(AB)
12126	M12	5-7	1330	Sat	919 919 919 000	CW	(AB)
11435	M12	7-7	1600	Mon	938 1 7282 115 (or 117) 47772 36804 69160 ... 93867 24142 57084 000 000	CW	(MPJ)
9327	M12	7-7	1642	Mon	i.p. ... 93867 24142 57084 000 000	CW	(AB)
8047	M12	9-7	1700	Wed	463 1 1108 67 14686 58302 69429 ... 16072 88039 83732 000 000	CW	(AB)
8047	M12	9-7	1700	Wed	463 1	CW	(HFD)
6802	M12	9-7	1720	Wed	463 1 1108 67 14686 58302 69429 ... 16072 88039 83732 000 000	CW	(AB)
6802	M12	9-7	1720	Wed	463 1	CW	(HFD)
5788	M12	9-7	1740	Wed	463 1 1108 67 14686 58302 69429 ... 16072 88039 83732 000 000	CW	(AB)
5788	M12	9-7	1740	Wed	463 1	CW	(HFD)
11435	M12	9-7	1830	Wed	938 1 6856 68 85411 42616 26709 ... 76714 76689 06313 000 000	CW	(AB)
10598	M12	9-7	1850	Wed	938 1 6856 68 85411 42616 26709 ... 76714 76689 06313 000 000	CW	(AB)
9327	M12	9-7	1910	Wed	938 1 6856 68 85411 42616 26709 ... 76714 76689 06313 000 000	CW	(AB)
9379	M12	9-7	2100	Wed	398 398 398 000	CW	(HFD)
14869	M12	9-7	2110	Wed	851 851 851 000	CW	(HFD)

Freq.	Code	Date	UTC	Day	Remarks	Mode	Contributor
7979	M12	9-7	2120	Wed	398 398 398 000	CW	(HFD)
7979	M12	9-7	2121	Wed	398 398 398 000	CW	(JPL)
13569	M12	9-7	2130	Wed	851 851 851 000	CW	(HFD)
13926	M12	10-7	1310	Thu	919 919 919 000	CW	(HFD)
12126	M12	10-7	1330	Thu	919 919 919 000	CW	(HFD)
13386	M12	10-7	1600	Thu	725 1	CW	(HFD)
12189	M12	10-7	1620	Thu	725 1	CW	(HFD)
11491	M12	10-7	1640	Thu	725 1	CW	(HFD)
9176	M12	10-7	1700	Thu	257 1	CW	(HFD)
7931	M12	10-7	1720	Thu	257 1	CW	(HFD)
6904	M12	10-7	1740	Thu	257 1	CW	(HFD)
9176	M12	10-7	1900	Thu	257 1	CW	(HFD)
7931	M12	10-7	1920	Thu	257 1	CW	(HFD)
6904	M12	10-7	1940	Thu	257 1	CW	(HFD)
6857	M12	14-7	0430	Mon	850 850 850 000	CW	(HFD)
7557	M12	14-7	0450	Mon	850 850 850 000	CW	(HFD)
9327	M12	14-7	1640	Mon	938 1 2716 113 83508 21017 58536 ... 72473 36371 16977 000 000	CW	(AB)
13926	M12	17-7	1310	Thu	919 1 1957 131 84468 41817 23763 ... 92755 59669 88235 000 000	CW	(AB)
12126	M12	17-7	1330	Thu	919 1 1957 131 84468 41817 23763 ... 92755 59669 88235 000 000	CW	(AB)
10926	M12	17-7	1350	Thu	919 1 1957 131 84468 41817 23763 ... 92755 59669 88235 000 000	CW	(AB)
11491	M12	17-7	1640	Thu	725 1 7514 112 99574 72330 08090 ... 92673 83473 85907 000 000	CW	(AB)
9176	M12	17-7	1700	Thu	257 1 9037 84 09874 11838 73308 ... 37245 86981 04931 000 000	CW	(AB)
14869	M12	19-7	2114	Sat	851 1 7826 175 then 5FG	CW	(MCO)
11435	M12	21-7	1600	Mon	938 1 9455 107 33366 91272 04525 ... 21858 00011 46262 000 000	CW	(AB)
11435	M12	21-7	1600	Mon	938 1	CW	(HFD)
10598	M12	21-7	1620	Mon	938 1 9455 107 33366 91272 04525 ... 21858 00011 46262 000 000	CW	(AB)
10598	M12	21-7	1620	Mon	938 1	CW	(HFD)
9327	M12	21-7	1640	Mon	938 1 9455 107 33366 91272 04525 ... 21858 00011 46262 000 000	CW	(AB)
9327	M12	21-7	1640	Mon	938 1	CW	(HFD)
9184	M12	31-7	0650	Thu	911 911 911 000	CW	(AB)
18041	M14	3-7	0508	Thu	i.p. = 413 = 413 50 50 00000	CW	(BCI)
7485	M14	4-7	1700	Fri	382 382 382 00000	MCW	(Danix)
6856	M14	8-7	1820	Tue	163 254 020 44108 38962 04169 ... 28305 68131 82828 00000 (no DK and GC given)	MCW	(Danix)
5938	M14	8-7	1920	Tue	417 385 020 51059 23438 76167 ... 84274 96823 ???17 385 020 00000	MCW	(Danix)
10755	M14	11-7	1700	Fri	i/p = = 168 168 54 54 0 0 0 0	CW	(Danix)
5221.5	M21	13-7	2011	Sun	Russian Air Defence =990013??0?????	CW	(MPJ)
7249	M21	14-7	1254	Mon	=991657??0?????? =13548901020206 =135482529687.3 =13548..2968753	CW	(JPL-FNL)
4904	M21	15-7	1418	Tue	=991817??8??????? =16610412609618 =991818??8????? =26316901020509	CW	(JPL-FNL)
4904	M21	26-7	1143	Sat	PVO. =11002885422243 //6421 kHz	CW	(JPL-FNL)
6421	M21	26-7	1148	Sat	PVO. =11002885422243 //4904 kHz	CW	(JPL-FNL)
4331	M22	9-7	2201	Wed	VVV VVV DE 4XZ 4XZ then into cipher	CW	(LG2)
13892	M22	15-7	1330	Tue	= = AR AR VVV DE 4XZ 4XZ = =	CW	(AAI)
11153	M22	15-7	2007	Tue	4XZ: "nr 135 ek v fn4g 216151 gs2n gr 24 == gngng	CW	(Faux)
12984	M22	15-7	2049	Tue	VVV VVV DE 4XZ 4XZ	CW	(Danix)
12984	M22	15-7	2057	Tue	VVV DE 4XZ 4XZ = =	CW	(AB)
11153	M22	15-7	2152	Tue	VVV VVV DE 4XZ 4XZ	CW	(Danix)
13892	M22	15-7	2215	Tue	VVV VVV DE 4XZ 4XZ	CW	(Danix)
13892	M22	25-7	0141	Fri	4XZ Israel Navy	CW	(KA1IIC)
11153	M22	26-7	0910	Sat	= = VVV DE 4XZ 4XZ = = AR NW QTC 1 NR 498 = = NR 498 V GP3L 244062 JM2I GR 71 = = into 5LGs	CW	(SP1)
12984	M22	26-7	1442	Sat	VVV DE 4XZ	CW	(AAI)
13982	M22	27-7	0025	Sun	4XZ, Israeli Navy vvv loop and messages	CW	(Norave)
7438	M23	8-7	0700	Tue	200 (R9)	CW	(Danix)
7438	M23	9-7	0700	Wed	200 (R9)	CW	(Danix)
7438	M23	10-7	0700	Thu	200 (R9)	CW	(Danix)
7438	M23	11-7	0700	Fri	200 (R9)	CW	(Danix)
7438	M23	12-7	0700	Sat	200 (R9) did not finish it's last zero	CW	(AB/NR)
7438	M23	12-7	0700	Sat	200 (R9)	CW	(Danix)
7438	M23	13-7	0700	Sun	200 (R9)	CW	(Danix)
6961	M23	14-7	0500	Mon	200 (R9)	CW	(Danix)
6961	M23	14-7	0600	Mon	200 (R9)	CW	(Danix)

Freq.	Code	Date	UTC	Day	Remarks	Mode	Contributor
6961	M23	14-7	0700	Mon	200 (R9)	CW	(Danix)
6961	M23	15-7	0500	Tue	200 (R9)	CW	(Danix)
6961	M23	15-7	0600	Tue	200 (R9)	CW	(Danix)
6961	M23	15-7	0700	Tue	200 (R9)	CW	(Danix)
6961	M23	15-7	0700	Tue	200 (R9)	CW	(AB)
6961	M23	16-7	0500	Wed	200 (R9)	CW	(Danix)
6961	M23	16-7	0600	Wed	200 (R9)	CW	(Danix)
6961	M23	16-7	0700	Wed	200 (R9)	CW	(Danix)
6961	M23	17-7	0700	Thu	200 (R9)	CW	(Danix)
10834	M24	21-7	2000	Mon	381 (R4) 642 642 108 108 = = 33910 09196 87030 ... 53054 02864 06851 = = 642 642 108 108 00000	CW	(Danix)
8096	M24	21-7	2030	Mon	381 (R4) 642 642 108 108 = = 33910 09196 87030 ... 53054 02864 06851 = = 642 642 108 108 00000	CW	(Danix)
16223	M32	13-7	1131	Sun	SGEU SGEU 56125 52426 INOKHOD' 1644 5312 K	CW	(Danix)
14411	M32	13-7	1136	Sun	...7141 7489 K	CW	(Danix)
14411	M32	13-7	1142	Sun	VEGI VEGI 14682 77724 EKLEKTIK 3916 2974 K	CW	(Danix)
5041	M32	13-7	2006	Sun	VVV XW1A AR	CW	(MPJ)
9288	M32	14-7	2055	Mon	CIAZ CIAZ CIAZ DE 7Y5R 7Y5R QTC 032 19 15 0050 032 = 485 = MMMMMM GYBSF RFTYF WAPRV WNTUB WAPRV WNTUB WAPRV WNTUB	CW	(AB)
8133.5	M32	17-7	1503	Thu	RDL 40405 81385 40405 81385 40405 81385 k	CW	(AB)
11116	M32	24-7	0711	Thu	XXX XXX LR43 LR43 00000 TEH PROWERKA 11 11 22 22 TEHNIESKA PROWERKA 592 K	CW	(AB)
11116	M32	24-7	1030	Thu	XXX XXX LR43 TEHNIESKA PROWERKA 540 K	CW	(AB)
11000	M32a	27-7	1937	Sun	Russian Navy HQ Moscow "MRV DE RIW"	CW	(AAI)
6767	M32a	30-7	1150	Wed	Russian navy Petropavlovsk Kamchatskiy. "DE RCC". Also "VVV DE HV4B" and single letters sent at different speed.	CW	(EW)
8895	M32c	8-7	1240	Tue	Russian Air Force Tu-95 Bear H net. W-markers	CW	(Tom)
8895	M32c	12-7	0620	Sat	Russian Air Force Tu-95 Bear net. W-markers	CW	(Tom)
8895	M32c	21-7	1800	Mon	Russian Air Force Tu-95 Bear H net. W-markers	CW	(Tom)
8895	M32c	27-7	1820	Sun	Russian Air Force Tu-95 Bear H net. R-markers	CW	(Tom)
10210	M42	26-6	0606		Russian diplo. 11100 60102 78328 26083 05003	Baudot 75/500	(BCI)
18150	M42	30-6	0640		Russian Gov/Intel.	RUS-ARQ 100/1000	(BCI)
16120.5	M42	30-6	0757		Russian diplo	CROWD-36	(BCI)
7675	M42	1-7	0557	Tue	Russian Gov/Intel.	RUS-ARQ 100/500	(BCI)
14655.5	M42	1-7	1149	Tue	Russian diplo. i.p.	CROWD-36	(AB)
16166.5	M42	1-7	1152	Tue	Russian diplo. i.p.	CROWD-36	(AB)
5343	M42	2-7	1835	Wed	Russian Gov/Intel. Mark after 50 groups. CW op-chat after the messages.	Baudot 50/500	(BCI)
18738.5	M42	3-7	1448	Thu	Russian diplo	CROWD-36	(BCI)
20229.5	M42	4-7	0613	Fri	Russian Gov/Intel.	RUS-ARQ 100/2000	(BCI)
13373	M42	5-7	0623	Sat	Russian diplo	CROWD-36	(AB)
16329	M42	5-7	1200	Sat	Russian diplo/intel.	FSK 200/500	(HFD)
14641	M42	5-7	1210	Sat	Russian diplo/intel.	FSK 200/500	(HFD)
12187	M42	5-7	1220	Sat	Russian diplo/intel.	FSK 200/500	(HFD)
11123	M42	10-7	1900	Thu	Russian diplo/intel. 6 54	FSK 200/500	(HFD)
9117	M42	10-7	1910	Thu	Russian diplo/intel. 6 54	FSK 200/500	(HFD)
6828	M42	10-7	1920	Thu	Russian diplo/intel. 6 54	FSK 200/500	(HFD)
22901	M42	12-7	0854	Sat	Russian diplo	CROWD-36	(LG2)
14655.5	M42	12-7	1355	Sat	Russian diplo	CROWD-36	(AAI)
14630	M42	12-7	1405	Sat	Russian diplo	CROWD-36	(AAI)
9140	M42	14-7	0807	Mon	RUU70: Russian Government	FSK 100/500	(LG2)
16117	M42	14-7	1003	Mon	Russian diplo	CROWD-36	(PUK)
14593	M42	19-7	1113	Sat	Russian diplo/intel. Message on link 36882	FSK 200/1000	(MCO)
16336	M42	20-7	1540	Sun	Russian diplo/intel. Messages on links 53269, 20501, 20543, 00001	FSK 200/1000	(SP1)
14878	M42	21-7	0031	Mon	Russian diplo/intel. Msg on link 00117	FSK 200/500	(MCO)
12122	M42	21-7	0700	Mon	Russian diplo	CROWD-36	(Danix)
11083	M42	22-7	2322	Tue	Russian diplo/intel. Msg on links 40988, 63646	FSK 200/1000	(Dan)
9288	M42	25-7	0649	Fri	Russian diplo	CROWD-36	(PUK)
11083	M42	29-7	2321	Tue	Russian diplo/intel i.p. Messages on links 40988, 40972, 08332, 00012, 45212, 00014	FSK 200/1000	(Dan)
6822.5	M51	10-7	0816	Thu	FAV22: ENPTT BRZFF EKNWB YKSWM VMJLZ SMZN SKLTB WEUPM	CW	(LG2)
7437	M51	11-7	0702	Fri	FAV22: HVINQ RFEDM QBEOA NKT LAFSO	CW	(LG2)
11617.5	M51	11-7	0742	Fri	FAV22	CW	(LG2)
6234.5	M51	12-7	2230	Sat	FAV22: FLGUI UBUNE VVBMC MCXZVT	CW	(LG2)

Freq.	Code	Date	UTC	Day	Remarks	Mode	Contributor
8016	M51	13-7	1810	Sun	NR 81 J 14 20:13:46 2014 = AMQMW XHXPP AQLQQ ...	CW	(MPJ)
8016	M51	13-7	2100	Sun	= NR 19 J 14 23:01:00 2014 = DGHPX QBNN JDES DEKWS GHPES BZCFL ...	CW	(SP1)
8016	M51	14-7	0118	Mon	5LGs offline crypto	CW	(MCO)
6825	M51	14-7	1123	Mon	= NR 58 J 15 13:21:24 2014 =	CW	(MCO)
8016	M51	15-7	1927	Tue	= NR 89 J 16 21:27:33 2014 =	CW	(Faux)
8016	M51	15-7	2240	Tue	NR 1 J 16 22:39:55 2014	CW	(AAI)
5337	M51	18-7	2213	Fri	NR 08 J 16 00:12:36 2014	CW	(faux)
9043.5	M51	18-7	2325	Fri	NR 90 J 15 23:25:05 2014 BT...	CW	(AAI)
9043.5	M51	18-7	2329	Fri	NR 90 J 15 23:25:05 2014 =	CW	(AAI)
8549	M51	25-7	0712	Fri	NR 58 J 25 09:12:46 2014 = EZQAQ NSJHR XYPCP KYST ...	CW	(AB)
6770	M89	2-6	0157	Wed	V CQ (x3) DE DP91 (x2) (Cont'd) //8676	CW	(JPL)
8676	M89	2-6	0157	Wed	V CQ (x3) DE DP91 (x2) PSE PSE PSE KK CC CNNN KK LL LL TO TO TO HR HR //6770	CW	(JPL)
5801	M89	2-6	0212	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
10180	M89	2-6	0212	Wed	V DKG6 (x3) DE 3A7D (x2) AR QSL? HR WK NR 32 //5801	CW	(JPL)
10180	M89	2-6	0941	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
7767	M89	2-6	0947	Wed	i.p. ATTN 3D5U 743T (Cont'd) III III III	CW	(JPL)
7711	M89	2-6	0953	Wed	DP91 QS	CW	(JPL)
6840	M89	2-6	1020	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //10640	CW	(JPL)
10640	M89	2-6	1020	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
3330	M89	2-6	1656	Wed	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3642	M89	2-6	1658	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	2-6	1658	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3820	M89	2-6	1659	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	2-6	1659	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
4532	M89	2-6	1702	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd)	CW	(JPL)
3820	M89	2-6	1729	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
3777	M89	2-6	1751	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	2-6	1751	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
4131	M89	2-6	1826	Wed	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
3330	M89	2-6	2058	Wed	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3642	M89	2-6	2059	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	2-6	2059	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3777	M89	2-6	2103	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	2-6	2103	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3820	M89	2-6	2105	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	2-6	2105	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
4131	M89	2-6	2112	Wed	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
4860	M89	2-6	2120	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
6840	M89	2-6	2120	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //4860	CW	(JPL)
8072	M89	2-6	2344	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3642	M89	7-6	2058		DKG6 de 3A7D Chinese military	CW	(IARUMS)
5657	M89	1-7	0035	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
7582	M89	1-7	0037	Tue	V 7NPEJ (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
8676	M89	1-7	0206	Tue	V CQ (x3) DE DP91 (x2) PSE YK ITT YK TC FREQ WNIHR NIL SK GB	CW	(JPL)
5801	M89	1-7	0231	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
10180	M89	1-7	0231	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
5500	M89	1-7	1013	Tue	V 7NPEJ (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
7777	M89	1-7	1017	Tue	8HNY 8HNY DE J3MX K. MSG NR 07/CCK CK 31 0801 1800 RMKS CQ	CW	(JPL)
5588	M89	1-7	1044	Tue	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
8072	M89	1-7	1046	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
5801	M89	1-7	1049	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
10180	M89	1-7	1049	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
3330	M89	1-7	1753	Tue	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
7602	M89	1-7	1755	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
3820	M89	1-7	1757	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	1-7	1757	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
4532	M89	1-7	1800	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd)	CW	(JPL)
7602	M89	1-7	2126	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
3820	M89	1-7	2128	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	1-7	2128	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
5801	M89	3-7	1257	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)

Freq.	Code	Date	UTC	Day	Remarks	Mode	Contributor
10180	M89	3-7	1257	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
3642	M89	3-7	1707	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	3-7	1707	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3820	M89	3-7	1709	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
5373	M89	3-7	1712	Thu	i.p. N733 T5NA TN5N (Cont'd) III = 5TT5 3TT4 TAA. (Cont'd)	CW	(JPL)
7602	M89	4-7	0130	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
3642	M89	4-7	1537	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	4-7	1537	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3820	M89	4-7	1543	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	4-7	1543	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
6840	M89	4-7	1620	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K	CW	(JPL)
7602	M89	4-7	1626	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
3820	M89	4-7	1627	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	4-7	1627	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3777	M89	4-7	1630	Fri	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	4-7	1630	Fri	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3330	M89	4-7	1633	Fri	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
5273	M89	4-7	1745	Fri	i.p. N6U3 6N3N A34D 34N5 (Cont'd) AR	CW	(JPL)
7602	M89	4-7	1952	Fri	V DKG6 de 3A7D	CW	(MPJ)
6840	M89	5-7	0120	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //10640	CW	(JPL)
10640	M89	5-7	0120	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
7602	M89	5-7	0131	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
4532	M89	5-7	1556	Sat	V M8JF (x3) DE RIS9 (x2) (Cont'd)	CW	(JPL)
3642	M89	5-7	1600	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	5-7	1600	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3820	M89	5-7	1603	Sat	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
3642	M89	5-7	1946	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	5-7	1946	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3820	M89	5-7	1948	Sat	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
10180	M89	6-7	0128	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
10421	M89	6-7	0132	Sun	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
7777	M89	6-7	0137	Sun	i.p. HR 7G GA K R R HR 7G GA K (Other station also on this frequency)	CW	(JPL)
3777	M89	6-7	1158	Sun	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	6-7	1158	Sun	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
10180	M89	6-7	1207	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
7748	M89	6-7	1501	Sun	i.p. 4TDU A.3U 5U... (Cont'd)	CW	(JPL)
3777	M89	6-7	1550	Sun	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4528	CW	(JPL)
4532	M89	6-7	1550	Sun	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3330	M89	6-7	1554	Sun	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
7602	M89	6-7	1555	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
5657	M89	6-7	1557	Sun	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
5500	M89	6-7	1558	Sun	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
6666	M89	6-7	1601	Sun	i.p. CQ CQ EEEEE = 464TN 3T. 070 7TTT 7T7 UD7 U66 T36 AR W (see N&O 202)	CW	(JPL)
3642	M89	6-7	2125	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	6-7	2125	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
5500	M89	6-7	2127	Sun	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
5657	M89	6-7	2128	Sun	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
3642	M89	6-7	2134	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	6-7	2134	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
4131	M89	6-7	2138	Sun	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
10421	M89	7-7	0848	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
8110	M89	7-7	0852	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
10180	M89	7-7	0900	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
10180	M89	7-7	1227	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
3820	M89	7-7	1230	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
4532	M89	7-7	1233	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd)	CW	(JPL)
5500	M89	7-7	1238	Mon	V (x3) 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
3642	M89	7-7	1551	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	7-7	1551	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3820	M89	7-7	1555	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
3642	M89	7-7	2019	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	7-7	2019	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)

Freq.	Code	Date	UTC	Day	Remarks	Mode	Contributor
6840	M89	7-7	2020	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K	CW	(JPL)
3820	M89	7-7	2025	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
10180	M89	8-7	0553	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
10180	M89	8-7	1119	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
3642	M89	8-7	2128	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	8-7	2128	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
10180	M89	9-7	1123	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
3642	M89	9-7	1636	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	9-7	1636	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3820	M89	9-7	1641	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
3777	M89	9-7	1700	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	9-7	1700	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3642	M89	9-7	2035	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	9-7	2035	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3820	M89	9-7	2038	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	9-7	2038	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
6340	M89	9-7	2112	Wed	i.p. 75D3 7744 3573 UU.T DT7A 45AU 474D (Cont'd) III 5P GA = 4UU. U75D 5U74 A655 DN7D T5U5 (Cont'd)	CW	(JPL)
10180	M89	10-7	0154	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
5801	M89	10-7	1257	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
10180	M89	10-7	1257	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
5365	M89	10-7	1304	Thu	i.p. R 8PMS DE J0MX R QSA 2 QSA? K R QSA 2 K	CW	(JPL)
3820	M89	10-7	1832	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
3642	M89	10-7	1833	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	10-7	1833	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
4131	M89	10-7	1837	Thu	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
7602	M89	10-7	2207	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
7602	M89	11-7	1407	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
3820	M89	11-7	1411	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
7602	M89	11-7	2047	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
3820	M89	11-7	2048	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
7602	M89	11-7	2303	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
7777	M89	12-7	0809	Sat	i.p. 05 05 05 05 5555 50505	CW	(JPL)
6840	M89	12-7	0820	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //10640	CW	(JPL)
10640	M89	12-7	0820	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
8060	M89	12-7	0827	Sat	V M8JF (x3) DE RIS9 (x2) (Cont'd)	CW	(JPL)
10180	M89	12-7	0836	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
5801	M89	12-7	1344	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
3820	M89	12-7	1348	Sat	V GKPO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	12-7	1348	Sat	V GKPO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3330	M89	12-7	1351	Sat	V 8CPZ (x3) DE XW6W (x2) (Cont'd)	CW	(JPL)
3330	M89	12-7	1355	Sat	V 8CPZ (x3) DE XW6W (x2) (Cont'd)	CW	(JPL)
3642	M89	12-7	1406	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	12-7	1406	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3777	M89	12-7	1410	Sat	V M8JF (x3) DE RIS9 (x2) (Cont'd)	CW	(JPL)
10180	M89	12-7	1444	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
5177	M89	12-7	1616	Sat	V JKDJ (x3) DE SRBC (x2) (Cont'd)	CW	(JPL)
3642	M89	12-7	1619	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	12-7	1619	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
6840	M89	12-7	1620	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K	CW	(JPL)
3820	M89	12-7	1625	Sat	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
3330	M89	12-7	2028	Sat	V 8CPZ (x3) DE XW6W (x2) (Cont'd)	CW	(JPL)
7602	M89	12-7	2029	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
3777	M89	12-7	2031	Sat	V M8JF (x3) DE RIS9 (x2) (Cont'd)	CW	(JPL)
3820	M89	12-7	2032	Sat	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	12-7	2032	Sat	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3642	M89	12-7	2306	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	12-7	2306	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
6840	M89	13-7	1120	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //10640	CW	(JPL)
10640	M89	13-7	1120	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
3777	M89	13-7	1127	Sun	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	13-7	1127	Sun	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)

Freq.	Code	Date	UTC	Day	Remarks	Mode	Contributor
5801	M89	13-7	1328	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
10180	M89	13-7	1328	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
3777	M89	13-7	1356	Sun	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	13-7	1356	Sun	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3820	M89	13-7	1357	Sun	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	13-7	1357	Sun	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
6666	M89	13-7	1400	Sun	i.p. AT43 46TD 436U (Cont'd) AR AR	CW	(JPL)
8072	M89	14-7	0051	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
8110	M89	14-7	0053	Mon	V 7NPEJ (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
8000	M89	14-7	0100	Mon	i.p. NR 001/K CCK CK CK 99 24 0714 0940 C RMKS CQ =	CW	(JPL)
10180	M89	14-7	1202	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
8073	M89	14-7	1204	Mon	i.p. 033 773357 373EEEE = 4AAN N345E ? ? 4464.443D3D34DT4D4	CW	(JPL)
3330	M89	14-7	1218	Mon	V 8CPZ (x3) DE XW6W (x2) (Cont'd)	CW	(JPL)
6840	M89	14-7	1220	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
10640	M89	14-7	1220	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
8888	M89	14-7	1226	Mon	i.p. 3NA6 U74T 7AD3 U6T3 A74N (Cont'd) AR R K SB SB SB (Switched to voice)	CW	(JPL)
7777	M89	14-7	1232	Mon	i.p. N576 46A4 6TN. (Cont'd) AR	CW	(JPL)
4532	M89	14-7	1246	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd)	CW	(JPL)
10180	M89	14-7	1249	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
3330	M89	14-7	1841	Mon	V 8CPZ (x3) DE XW6W (x2) (Cont'd)	CW	(JPL)
3642	M89	14-7	1843	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	14-7	1843	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3777	M89	14-7	1844	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	14-7	1844	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
5500	M89	14-7	1852	Mon	V (x3) 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
3820	M89	14-7	2032	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	14-7	2032	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3330	M89	14-7	2118	Mon	V 8CPZ (x3) DE XW6W (x2) (Cont'd)	CW	(JPL)
3642	M89	14-7	2119	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	14-7	2119	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
4860	M89	14-7	2120	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
6840	M89	14-7	2120	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
4532	M89	14-7	2125	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //N/H	CW	(JPL)
3820	M89	14-7	2126	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5500	M89	14-7	2126	Mon	i.p. 09/0555/z21/43141 EEEEEEE AGN VV UGT COMM = 9609/0555/Z21/4314 AR V 7NPE DE QV5B	CW	(JPL)
5657	M89	14-7	2126	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
8072	M89	15-7	0948	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //10421	CW	(JPL)
10421	M89	15-7	0948	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //8072	CW	(JPL)
8110	M89	15-7	0951	Tue	V (x3) 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
4532	M89	15-7	0953	Tue	i.p. 5PKP K. R R DE T24X QSA 3 K. R R QSA 2 ...	CW	(JPL)
5588	M89	15-7	1019	Tue	V 8CPZ (x3) DE XW6W (x2) (Cont'd)	CW	(JPL)
6840	M89	15-7	1020	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //1064	CW	(JPL)
10640	M89	15-7	1020	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
5555	M89	15-7	1025	Tue	i.p. TO 54.4.. 54 TO 5.34 TO 544. TO 5984 TO 5474 TO 5986 TO 5924 TO 5904 TO 5914 AR K HR NR 315 K	CW	(JPL)
4532	M89	15-7	1031	Tue	i.p. 05 05 VV WS2C DE 5PKP K. R DE 9SEO K	CW	(JPL)
10180	M89	15-7	1108	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
3777	M89	15-7	1256	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	15-7	1256	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
5500	M89	15-7	1304	Tue	V (x3) 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
8072	M89	15-7	1306	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //10421	CW	(JPL)
10421	M89	15-7	1306	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //8072	CW	(JPL)
5801	M89	15-7	1309	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
10180	M89	15-7	1309	Tue	i.p. SVC QR. 2595/8.6 QSW L. AR. R.. 2.. 500217325936 8.. QRW 5	CW	(JPL)
4860	M89	15-7	1320	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
6840	M89	15-7	1320	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //4860	CW	(JPL)
3330	M89	15-7	1648	Tue	V 8CPZ (x3) DE XW6W (x2) (Cont'd)	CW	(JPL)
3642	M89	15-7	1650	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	15-7	1650	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3777	M89	15-7	1652	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	15-7	1652	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)

Freq.	Code	Date	UTC	Day	Remarks	Mode	Contributor
3820	M89	15-7	1653	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	15-7	1653	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3330	M89	15-7	1843	Tue	V 8CPZ (x3) DE XW6W (x2) (Cont'd)	CW	(JPL)
3642	M89	15-7	1844	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	15-7	1844	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3777	M89	15-7	1846	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	15-7	1846	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3820	M89	15-7	1848	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	15-7	1848	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
7602	M89	15-7	2228	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
5657	M89	15-7	2229	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
3330	M89	21-7	1854	Mon	V 8CPZ (x3) DE XW6W (x2) (Cont'd)	CW	(JPL)
3642	M89	21-7	1856	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	21-7	1856	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3777	M89	21-7	1858	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	21-7	1858	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3330	M89	21-7	2131	Mon	V 8CPZ (x3) DE XW6W (x2) (Cont'd)	CW	(JPL)
3642	M89	21-7	2132	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	21-7	2132	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
5500	M89	21-7	2135	Mon	V (x3) 7NPE (x3) DE QV5R (x2) (error in callsign)	CW	(JPL)
4532	M89	21-7	2139	Mon	i.p. NR 30 VVV CQ QSY NR 30	CW	(JPL)
8072	M89	21-7	2145	Mon	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
8072	M89	22-7	0136	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
8110	M89	22-7	0139	Tue	V (x3) 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
4532	M89	22-7	1317	Tue	i.p. U57T A3T4 7..6 NA.3 4N5N. T T T 56ND .37A U45N NUA6 73D4 5674 (Cont'd)	CW	(JPL)
5533	M89	22-7	1547	Tue	i.p. AR 5000MMMM	CW	(JPL)
3777	M89	22-7	1614	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd)	CW	(JPL)
3820	M89	22-7	1615	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
3642	M89	22-7	2222	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	22-7	2222	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3820	M89	22-7	2225	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	22-7	2225	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3820	M89	23-7	2108	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	23-7	2108	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3642	M89	23-7	2111	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	23-7	2111	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
6840	M89	23-7	2120	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K	CW	(JPL)
10180	M89	24-7	1100	Thu	i.p. (COMM/.../LZ51..03/.65. QSL ? HW WK NR .0 V DKG6 DE 3A7D	CW	(JPL)
10421	M89	24-7	1108	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
3330	M89	24-7	2013	Thu	V 8CPZ (x3) DE XW6W (x2) (Cont'd)	CW	(JPL)
3642	M89	24-7	2015	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	24-7	2015	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3777	M89	24-7	2017	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	24-7	2017	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
4860	M89	24-7	2020	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
6840	M89	24-7	2020	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //4860	CW	(JPL)
3820	M89	24-7	2025	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	24-7	2025	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
8072	M89	25-7	0818	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
6840	M89	25-7	0820	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //10640	CW	(JPL)
10640	M89	25-7	0820	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
4860	M89	25-7	1320	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
6840	M89	25-7	1320	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //4860	CW	(JPL)
5801	M89	25-7	1328	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
10180	M89	25-7	1328	Fri	VVV HR SVC GA NR 03.16 RMKS 6845 TO 6825 2131 = //5801	CW	(JPL)
3820	M89	25-7	1339	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	25-7	1339	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3330	M89	25-7	1451	Fri	V 8CPZ (x3) DE XW6W (x2) (Cont'd)	CW	(JPL)
3777	M89	25-7	1453	Fri	V M8JF (x3) DE RIS9 (x2) (Cont'd)	CW	(JPL)
7788	M89	25-7	1457	Fri	i.p. 3U3A N7U5 .4U3 (Cont'd) AR DUT III =	CW	(JPL)
3330	M89	25-7	1828	Fri	V 8CPZ (x3) DE XW6W (x2) (Cont'd)	CW	(JPL)

Freq.	Code	Date	UTC	Day	Remarks	Mode	Contributor
3777	M89	25-7	1829	Fri	V M8JF (x3) DE RIS9 (x2) (Cont'd)	CW	(JPL)
7602	M89	25-7	1831	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
3820	M89	25-7	1832	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	25-7	1832	Fri	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
10180	M89	26-7	1135	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
5801	M89	26-7	1157	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
10180	M89	26-7	1157	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
5801	M89	26-7	1240	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
10180	M89	26-7	1240	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
3777	M89	26-7	1244	Sat	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	26-7	1244	Sat	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3820	M89	26-7	1246	Sat	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	26-7	1246	Sat	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3330	M89	26-7	1248	Sat	V 8CPZ (x3) DE XW6W (x2) (Cont'd)	CW	(JPL)
6840	M89	29-7	1220	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //10640	CW	(JPL)
10640	M89	29-7	1220	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
5801	M89	29-7	1225	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
10180	M89	29-7	1225	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
5657	M89	29-7	1228	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
3330	M89	29-7	1229	Tue	V 8CPZ (x3) DE XW6W (x2) (Cont'd)	CW	(JPL)
3777	M89	29-7	1230	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	29-7	1230	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
5500	M89	29-7	1231	Tue	V (x3) 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
8887	M89	29-7	1234	Tue	i.p. 7G GA HW RNT. HA HR 7G GA HW RNT. R R G HA H MRR QSA 2 R K	CW	(JPL)
5555	M89	29-7	1248	Tue	Station tuning up on frequency: T 5.. N (handsent) NNA =	CW	(JPL)
3330	M89	29-7	1646	Tue	V 8CPZ (x3) DE XW6W (x2) (Cont'd)	CW	(JPL)
3642	M89	29-7	1647	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	29-7	1647	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3777	M89	29-7	1648	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	29-7	1648	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
5657	M89	29-7	1650	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
6840	M89	29-7	2020	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K	CW	(JPL)
3642	M89	29-7	2025	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7603	M89	29-7	2025	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
5657	M89	29-7	2028	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
3330	M89	29-7	2104	Tue	V 8CPZ (x3) DE XW6W (x2) (Cont'd)	CW	(JPL)
3642	M89	29-7	2105	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	29-7	2105	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3777	M89	29-7	2106	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	29-7	2106	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
5657	M89	29-7	2111	Tue	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
6840	M89	30-7	1020	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //10640	CW	(JPL)
10640	M89	30-7	1020	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
8072	M89	30-7	1027	Wed	V GKLO DE TYUI. VVV SVC NR .9 1330 RMKS 337. TO 2247 / 2354 =	CW	(JPL)
10421	M89	30-7	1027	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //8072	CW	(JPL)
5588	M89	30-7	1035	Wed	V 8CPZ (x3) DE XW6W (x2) (Cont'd)	CW	(JPL)
8060	M89	30-7	1037	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd)	CW	(JPL)
10180	M89	30-7	1111	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
3330	M89	30-7	1506	Wed	V 8CPZ (x3) DE XW6W (x2) (Cont'd)	CW	(JPL)
3642	M89	30-7	1509	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	30-7	1509	Wed	V DKG6 (x3) DE 3 A7D (x2) (Cont'd) //3642	CW	(JPL)
3777	M89	30-7	1511	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	30-7	1511	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3820	M89	30-7	1512	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	30-7	1512	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
4131	M89	30-7	1518	Wed	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
4860	M89	30-7	1520	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
6840	M89	30-7	1520	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //4860	CW	(JPL)
3330	M89	30-7	1928	Wed	V 8CPZ (x3) DE XW6W (x2) (Cont'd)	CW	(JPL)
3642	M89	30-7	1929	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	30-7	1929	Wed	V DKG6 (x3) DE 3A7D (x 2) (Cont'd) //3642	CW	(JPL)
3777	M89	30-7	1931	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)

Freq.	Code	Date	UTC	Day	Remarks	Mode	Contributor
4532	M89	30-7	1931	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3820	M89	30-7	1932	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	30-7	1932	Wed	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
5801	M89	31-7	1308	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
10180	M89	31-7	1308	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
8945	M89	31-7	1318	Thu	i.p. T37U 37NA D3T7 3N4A 76TD (Cont'd) AR AR	CW	(JPL)
8888	M89	31-7	1324	Thu	i.p. R R QSL 2122 K. R R U E GA K (Both stations on this frequency)	CW	(JPL)
6212	M89	31-7	1343	Thu	i.p. SK GB GB GB GB GB GB DP6891 GB T DP6891 GB	CW	(JPL)
3820	M89	31-7	1351	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
5657	M89	31-7	1351	Thu	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
3777	M89	31-7	1353	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	31-7	1353	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
4720	M89	31-7	1357	Thu	i.p. D7A3 34UD 6DD5 76DD NUDD 7DA3 5763 D635 (Cont'd) III III 10P GA =	CW	(JPL)
4131	M89	31-7	1407	Thu	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
3330	M89	31-7	1505	Thu	V 8CPZ (x3) DE XW6W (x2) (Cont'd)	CW	(JPL)
4061	M89	31-7	1509	Thu	i.p. 4D7N 376D 75DT 7653 AD34 3? 46NN NDU7 433A (Cont'd)	CW	(JPL)
5218	M89	31-7	1524	Thu	i.p. DN6T 4UNN T7UT T4U3 A4T3 4DN4 43TA (Cont'd)	CW	(JPL)
5801	M89	31-7	1528	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
10180	M89	31-7	1528	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
3616	M89	31-7	1721	Thu	i.p. 374T 35N7 363N D66T (Cont'd) III III = 5A35 U76A 7U5A 5T5N (Cont'd)	CW	(JPL)
3777	M89	31-7	1727	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	31-7	1727	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
5801	M89	31-7	2106	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
10180	M89	31-7	2106	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
10365	M97	16-4	1457		SD 84, SN 58, message x3	CW	(Token)
10365	M97	17-4	1457		SD 84, SN 58, message x3	CW	(Token)
10365	M97	18-4	1457		SD 84, SN 58, message x3	CW	(Token)
10365	M97	5-5	1501		SD 84, SN 58, message x3	CW	(Token)
10365	M97	8-5	1500		SD 84, SN 58, message x3	CW	(Token)
10365	M97	9-5	1500		SD 84, SN 58, message x3	CW	(Token)
10365	M97	12-5	1500		SD 84, SN 58, message x3	CW	(Token)
10365	M97	13-5	1500		SD 84, SN 58, message x3	CW	(Token)
10365	M97	1-7	1459	Tue	SD 84, SN 58, message x3	CW	(Token)
10365	M97	2-7	1459	Wed	SD 84, SN 58, message x3	CW	(Token)
10365	M97	3-7	1459	Thu	SD 84, SN 58, message x3	CW	(Token)
10365	M97	14-7	1459	Mon	SD 84, SN 58, message x3	CW	(Token)
10365	M97	15-7	1459	Tue	SD 84, SN 58, message x3	CW	(Token)
10365	M97	16-7	1459	Wed	SD 84, SN 58, message x3	CW	(Token)
10365	M97	23-7	1459	Wed	SD 84, SN 58, message x3	CW	(Token)
10365	M97	24-7	1458	Thu	SD 84, SN 58, message x3	CW	(Token)
8000	MC03	12-7	2255	Sat	FKFKFK A6AA3N76 FKFK A6AT3N76554	CW	(JPL-HK)
7027	MX	24-6	1953		Beacon "V"	CW	(IARUMS)
20047.9	MX	1-7	1346	Tue	Beacon "S" Severomorsk	CW	(AAI)
6917.5	MX	4-7	1946	Fri	Beacon "L" Skt Peterburg	CW	(MPJ)
10871.9	MX	5-7	1457	Sat	Beacon "S" Severomorsk	CW	(MPJ)
10872	MX	5-7	1458	Sat	Beacon "C" Moscow	CW	(MPJ)
16331.7	MX	7-7	1421	Mon	Beacon "D" Sevastopol	CW	(AAI)
16331.7	MX	9-7	1038	Wed	Beacon "D" Sevastopol	CW	(WP3)
16332	MX	9-7	1038	Wed	Beacon "C" Moscow RUS	CW	(WP3)
10872	MX	11-7	2150	Fri	Beacon "C" Moscow	CW	(AAI)
5153.8	MX	12-7	2224	Sat	Beacon "P"	CW	(LG2)
10872.3	MX	16-7	1159	Wed	Beacon "K"	CW	(AB-HK)
10872.4	MX	16-7	1159	Wed	Beacon "M"	CW	(AB-HK)
6917.5	MX	19-7	1726	Sat	Beacon "L" St Petersburg	CW	(AB)
8497.8	MX	19-7	1726	Sat	Beacon "L" St Petersburg	CW	(AB)
10871.7	MX	20-7	1446	Sun	Beacon "D" Odessa/Sevastopol	CW	(MPJ)
10871.9	MX	20-7	1447	Sun	Beacon "S" Severomorsk	CW	(MPJ)
10872	MX	20-7	1448	Sun	Beacon "C" Moscow	CW	(MPJ)
6917.5	MX	20-7	1850	Sun	Beacon "L" Skt Peterburg	CW	(MPJ)
6917.5	MX	25-7	1902	Fri	Beacon "L" Peterburg	CW	(MPJ)
5153.7	MX	25-7	1926	Fri	Beacon "D" Sevastopol/Odessa	CW	(MPJ)
5153.8	MX	25-7	1927	Fri	Beacon "P" Kaliningrad	CW	(MPJ)

Freq.	Code	Date	UTC	Day	Remarks	Mode	Contributor
16331.7	MX	27-7	1632	Sun	Beacon "D" Sevastopol	CW	(AAI)
16332	MX	27-7	1635	Sun	Beacon "C" Moscow	CW	(AAI)
13527.7	MX	30-7	1147	Wed	Beacon "D"	CW	(AB)
13528	MX	30-7	1147	Wed	Beacon "C"	CW	(AB)
16331.7	MX	30-7	1147	Wed	Beacon "D"	CW	(AB)
16332	MX	30-7	1147	Wed	Beacon "C"	CW	(AB)
8909	RAv	21-7	1815	Mon	Russian Air Force Tu-95 Bear H net	USB	(Tom)
8909	RAv	22-7	0615	Tue	Russian Air Force Tu-95 Bear H net	USB	(Tom)
15721	S06	7-7	0400	Mon	480 136 50 59498 90790 72904 ... 37314 54241 82315 00000	USB	(AB)
15721	S06	14-7	0400	Mon	480 731 60 42729 61303 37938 ... 46121 99092 28822 731 60 00000	H3E	(Danix)
15850	S06	14-7	1815	Mon	376 376 376 00000	H3E	(Danix)
15850	S06	14-7	1815	Mon	376 376 376 00000	USB	(HFD)
6984	S06	14-7	1905	Mon	349 349 349 00000	USB	(HFD)
13505	S06	14-7	1915	Mon	376 376 376 00000	H3E	(Danix)
13505	S06	14-7	1915	Mon	376 376 376 00000	USB	(HFD)
6873	S06	19-7	1605	Sat	194 194 194 00000	USB	(AB/GU)
15721	S06	21-7	0400	Mon	480 261 50 81453 64904 16904 ... 11336 57303 91177 261 50 00000	H3E	(Danix)
6984	S06	21-7	1905	Mon	349 349 349 00000	USB	(HFD)
15721	S06	23-7	0400	Wed	480 326 55 22709 10281 00917 ... 97349 47198 78566 326 55 00000	USB	(AB/RWO)
15721	S06	23-7	0400	Wed	480 326 55 22709 10281 00916 ... 97349 47198 78566 326 55 00000	H3E	(Danix)
15721	S06	24-7	0400	Thu	480 179 60 97799 09123 90331 ... 04403 79503 01730 179 60 00000	H3E	(Danix)
5917	S06	26-7	1935	Sat	396 396 396 00000	USB	(HFD)
15850	S06	28-7	1815	Mon	376 376 376 00000	H3E	(Danix)
13505	S06	28-7	1915	Mon	376 376 376 00000	H3E	(Danix)
11578	S06c	21-7	1640	Mon	11213	USB	(Avare)
16735	S06s	1-7	0600	Tue	438 950 6 16014 42676 55730 44736 95879 12345 950 6 00000	USB	(Avare)
6780	S06s	1-7	0715	Tue	374 216 5 38281 10241 58010 29875 72431 216 5 00000	USB	(AB)
12852	S06s	3-7	0900	Thu	167 498 5 81726 36450 99981 30906 45638 498 5 00000	AM	(AB)
13565	S06s	3-7	0910	Thu	167 498 5 81726 36450 99981 30906 45638 498 5 00000	AM	(AB)
9255	S06s	3-7	0930	Thu	314 527 6 82395 58825 82037 89522 70831 89090 527 6 000000	USB	(AB)
10325	S06s	3-7	0940	Thu	314 527 6 82395 58825 82037 89522 70831 89090 527 6 000000	USB	(AB)
11165	S06s	3-7	0950	Thu	635 281 7 20529 80749 03752 76367 84777 55977 48638 281 7 00000	USB	(Danix)
12530	S06s	3-7	1000	Thu	635 281 7 20529 80749 03752 76367 84777 55977 48638 281 7 00000	USB	(Danix)
12460	S06s	5-7	1200	Sat	254 817 6 32557 35995 44937 94502 33459 41812 817 6 00000	USB	(AB)
10250	S06s	5-7	1210	Sat	254 817 6 32557 35995 44937 94502 33459 41812 817 6 00000	USB	(AB)
16320	S06s	6-7	0630	Sun	524 897 6 37655 30146 34476 91326 41043 36472 897 6 00000	AM	(AB)
14875	S06s	6-7	0640	Sun	524	USB	(HFD)
14875	S06s	6-7	0640	Sun	524 897 6 37655 30146 34476 91326 41043 36472 897 6 00000	AM	(AB)
16320	S06s	6-7	0640	Sun	524 897 6 37655	USB	(HFD)
8221	S06s	7-7	0830	Mon	371 245 6 38163 33231 31323 32680 85418 31896 245 6 00000	USB	(AB)
9353	S06s	7-7	0840	Mon	371 245 6 38163 33231 31323 32680 85418 31896 245 6 00000	USB	(AB)
16380	S06s	7-7	0900	Mon	872 461 5 26634 14690 95590 60386 03009 461 5 00000	USB	(AB)
14835	S06s	7-7	0910	Mon	872 461 5 26634 14690 95590 60386 03009 461 5 00000	USB	(AB)
6780	S06s	8-7	0715	Tue	374 barely audible	USB	(AB)
7365	S06s	8-7	0730	Tue	427 810 5 61028 69130 27970 53514 58906 810 5 00000	USB	(AB)
11655	S06s	8-7	0740	Tue	427 810 5 61028 69130 27970 53514 58906 810 5 00000	USB	(AB)
14373	S06s	8-7	0800	Tue	352 479 6 58906 31477 91127 49572 96314 52976 479 6 00000	USB	(AB)
12935	S06s	8-7	0810	Tue	352 479 6 58906 31477 91127 49572 96314 52976 479 6 00000	USB	(AB)
14580	S06s	9-7	1000	Wed	729 581 6 47304 33888 23754 97912 10870 88866 581 6 00000	USB	(AB)
16020	S06s	9-7	1010	Wed	729 581 6 47304 33888 23754 97912 10870 88866 581 6 00000	USB	(AB)
7545	S06s	9-7	1230	Wed	967 barely audible	USB	(AB)
8220	S06s	9-7	1240	Wed	967 barely audible	USB	(AB)
11165	S06s	10-7	0950	Thu	635 281 7 20529 80749 03752 76367 84777 55977 48638 281 7 00000	AM	(AB)
12530	S06s	10-7	1000	Thu	635 281 7 20529 80749 03752 76367 84777 55977 48638 281 7 00000	AM	(AB)
13145	S06s	10-7	1200	Thu	425 967 8 96320 36793 53038 76342 15009 34140 78386 91497 967 8 00000	AM	(AB)
14535	S06s	10-7	1210	Thu	425 967 8 96320 36793 53038 76342 15009 34140 78386 91497 967 8 00000	AM	(AB)
10290	S06s	11-7	0930	Fri	516 930 7 36113 31107 37806 37137 31405 46464 33690 930 7 00000	AM	(AB)
9655	S06s	11-7	0940	Fri	516 930 7 36113 31107 37806 37137 31405 46464 33690 930 7 00000	AM	(AB)
16380	S06s	14-7	0900	Mon	872 461 5 26634 14690 95590 60386 03009 461 5 00000	USB	(AB)
14835	S06s	14-7	0910	Mon	872 461 5 26634 14690 95590 60386 03009 461 5 00000	USB	(AB)
10230	S06s	14-7	1200	Mon	831 249 5 31405 46464 33690 39783 32347 249 5 00000	AM	(AB)
12165	S06s	14-7	1210	Mon	831 249 5 31405 46464 33690 39783 32347 249 5 00000	AM	(AB)

Freq.	Code	Date	UTC	Day	Remarks	Mode	Contributor
6780	S06s	15-7	0715	Tue	374 (unreadable)	USB	(AB)
14373	S06s	15-7	0800	Tue	352 418 6 54928 33165 37858 39538 83873 44333 418 6 00000	USB	(AB)
12935	S06s	15-7	0810	Tue	352 418 6 54928 33165 37858 39538 83873 44333 418 6 00000	USB	(AB)
7744	S06s	15-7	1510	Tue	537 829 6 37684 46080 34015 41905 55088 38421 829 6 00000	USB	(AB)
13145	S06s	17-7	1200	Thu	425 983 6 03009 81413 94043 83531 94063 63156 983 6 00000	AM	(AB)
14535	S06s	17-7	1210	Thu	425 983 6 03009 81413 94043 83531 94063 63156 983 6 00000	AM	(AB)
16320	S06s	20-7	0630	Sun	524 896 7 88620 58069 61732 74537 57440 10597 23531 896 7 00000	AM	(AB)
14875	S06s	20-7	0640	Sun	524 896 7 88620 58069 61732 74537 57440 10597 23531 896 7 00000	AM	(AB)
14835	S06s	21-7	0910	Mon	872 439 5 80144 33956 43871 43498 34654 439 5 00000	USB	(AB)
5430	S06s	22-7	0700	Tue	374 281 5 72538 01983 57574 38291 98954 281 5 00000	USB	(AB)
5430	S06s	22-7	0700	Tue	374 28# 5 72538	USB	(HFD)
6780	S06s	22-7	0715	Tue	374	USB	(HFD)
6780	S06s	22-7	0715	Tue	374 281 5 72538 01983 57574 38291 98954 281 5 00000	USB	(AB)
7365	S06s	22-7	0730	Tue	427 951 6 43169 42483 18958 37032 30440 93442 951 6 00000	AM	(AB)
11655	S06s	22-7	0740	Tue	427 951 6 43169 42483 18958 37032 30440 93442 951 6 00000	AM	(AB)
14373	S06s	22-7	0800	Tue	352 418 6 54928 33165 37858 39538 83873 44333 418 6 00000	USB	(AB)
12935	S06s	22-7	0810	Tue	352 418 6 54928 33165 37858 39538 83873 44333 418 6 00000	USB	(AB)
6766	S06s	22-7	1500	Tue	537 829 6 37684 46080 34015 41905 55088 38421 829 6 00000	USB	(AB)
7744	S06s	22-7	1510	Tue	537 829 6 37684 46080 34015 41905 55088 38421 829 6 00000	USB	(AB)
13145	S06s	24-7	1200	Thu	425 983 6 03009 81413 94043 83531 94063 63156 983 6 00000	AM	(AB)
14535	S06s	24-7	1210	Thu	425 983 6 03009 81413 94043 83531 94063 63156 983 6 00000	AM	(AB)
7845	S06s	25-7	0600	Fri	196 420 5 81406 36889 47688 33374 45836 420 5 00000	AM	(AB)
11742	S06s	25-7	0600	Fri	934 207 5 30173 30823 86833 49338 44530 207 5 00000	USB	(AB)
9125	S06s	25-7	0610	Fri	196 420 5 81406 36889 47688 33374 45836 420 5 00000	AM	(AB)
12535	S06s	25-7	0610	Fri	934 207 5 30173 30823 86833 49338 44530 207 5 00000	USB	(AB)
10290	S06s	25-7	0930	Fri	516 208 7 46062 68672 97478 39685 39485 96632 52537 208 7 00000	AM	(AB)
9655	S06s	25-7	0940	Fri	516 208 7 46062 68672 97478 39685 39485 96632 52537 208 7 00000	AM	(AB)
15230	S06s	29-7	0609	Tue	438 438 438 00000 (early start)	AM	(AB)
6780	S06s	29-7	0715	Tue	374 374 374 00000	USB	(AB)
11655	S06s	29-7	0740	Tue	427 427 427 00000	AM	(AB)
12952	S06s	31-7	0900	Thu	167 167 167 00000	AM	(AB)
13565	S06s	31-7	0910	Thu	167 167 167 00000	AM	(AB)
9255	S06s	31-7	0930	Thu	314 314 314 00000	AM	(AB)
16530	S11a	30-6	1015		475/00	USB	(Danix)
8530	S11a	1-7	0915	Tue	484/00	USB	(Danix)
11581	S11a	1-7	1020	Tue	426/00	USB	(Danix)
5815	S11a	2-7	1020	Wed	221/00	USB	(Danix)
4870	S11a	2-7	1955	Wed	370/00	USB	(Danix)
16530	S11a	3-7	1015	Thu	475/00	USB	(Danix)
8530	S11a	4-7	0915	Fri	484/00	USB	(Danix)
11581	S11a	4-7	1020	Fri	426/00	USB	(Danix)
4870	S11a	4-7	1955	Fri	370/00	USB	(Danix)
5815	S11a	5-7	1020	Sat	221/00	USB	(HFD)
5815	S11a	5-7	1020	Sat	221/00	USB	(Danix)
16530	S11a	7-7	1015	Mon	475/00	USB	(AB)
16530	S11a	7-7	1015	Mon	475/00	USB	(Danix)
8530	S11a	8-7	0915	Tue	484/33 Vnimanie 65267 05618 99659 ... 11908 52505 61964	USB	(Danix)
8530	S11a	8-7	0915	Tue	484/33 Vnimanie 65267 05618 99659 ... 11908 52505 61964 Vnimanie, rpt msg, konec	USB	(AB)
11581	S11a	8-7	1020	Tue	426/00	USB	(Danix)
5815	S11a	9-7	1020	Wed	222/30 Vnimanie. Unreadable	USB	(AB)
5815	S11a	9-7	1020	Wed	222/30, no message copy	USB	(Danix)
4870	S11a	9-7	1955	Wed	370/00	USB	(AB)
4870	S11a	9-7	1955	Wed	370/00	USB	(Danix)
16530	S11a	10-7	1015	Thu	475/00	USB	(Danix)
8530	S11a	11-7	0915	Fri	484/33 Vnimanie 65267 05618 99659 ... 11908 52505 61964 Vnimanie, rpt msg, konec	USB	(AB)
8530	S11a	11-7	0915	Fri	484/33 Vnimanie 65267 05618 99659 ... 11908 52505 61964	USB	(Danix)
11581	S11a	11-7	1020	Fri	426/00	USB	(AB)
11581	S11a	11-7	1020	Fri	426/00	USB	(Danix)
4870	S11a	11-7	1955	Fri	370/00	USB	(Danix)
5815	S11a	12-7	1020	Sat	222/30, no message copy	USB	(Danix)

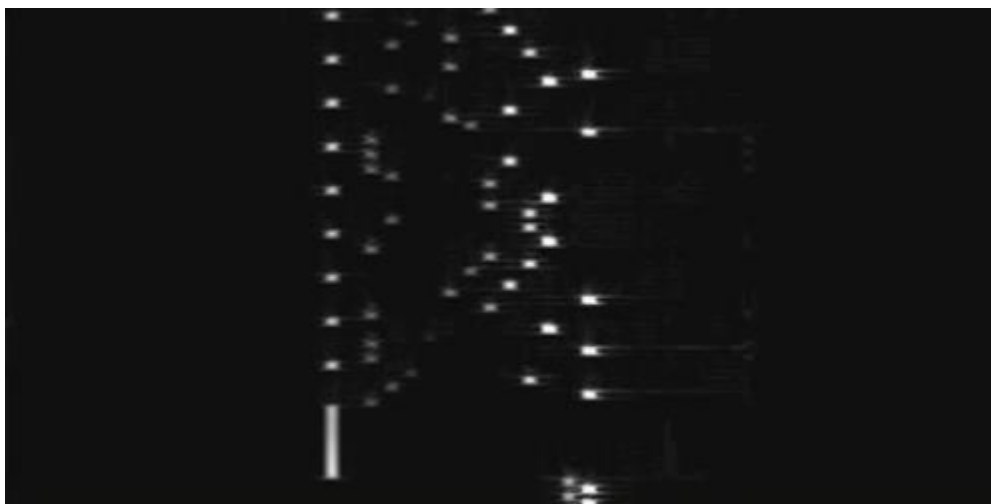
Freq.	Code	Date	UTC	Day	Remarks	Mode	Contributor
16530	S11a	14-7	1015	Mon	475/00	USB	(AB)
16530	S11a	14-7	1015	Mon	475/00	USB	(Danix)
8530	S11a	15-7	0915	Tue	484/00	USB	(AB)
8530	S11a	15-7	0915	Tue	484/00	USB	(Danix)
11581	S11a	15-7	1020	Tue	426/00	USB	(Danix)
5815	S11a	16-7	1020	Wed	221/00	USB	(Danix)
4870	S11a	16-7	1955	Wed	379/35 Vnimanie 19045 42487 30104 ... 09376 23122 11787	USB	(Danix)
16530	S11a	17-7	1015	Thu	475/00	USB	(Danix)
8530	S11a	18-7	0915	Fri	484/00	USB	(Danix)
11581	S11a	18-7	1020	Fri	426/00	USB	(Danix)
4870	S11a	18-7	1955	Fri	379/35 Vnimanie 19045 42487 30104 ... 09376 23122 11787	USB	(Danix)
5815	S11a	19-7	1020	Sat	221/00	USB	(Danix)
18511	S11a	21-7	0715	Mon	382/00	USB	(Danix)
18511	S11a	21-7	0715	Mon	382/00	USB	(AB)
16530	S11a	21-7	1015	Mon	475/00	USB	(Danix)
16530	S11a	21-7	1015	Mon	475/00	USB	(AB)
8530	S11a	22-7	0915	Tue	484/00	USB	(Danix)
8530	S11a	22-7	0915	Tue	484/00	USB	(AB)
11581	S11a	22-7	1020	Tue	427/30 Vnimanie 43645 71558 01170 ... 51743 37149 60056	USB	(Danix)
18511	S11a	23-7	0715	Wed	382/00	USB	(Danix)
5815	S11a	23-7	1020	Wed	221/00	USB	(AB)
5815	S11a	23-7	1020	Wed	221/00	USB	(Danix)
4820	S11a	23-7	1955	Wed	370/00	USB	(GHn)
4870	S11a	23-7	1955	Wed	370/00	USB	(Danix)
16530	S11a	24-7	1015	Thu	475/00	USB	(Danix)
8530	S11a	25-7	0915	Fri	484/00	USB	(Danix)
11581	S11a	25-7	1020	Fri	427/30 Vnimanie 43645 71558 01170 ... 51743 37149 60056	USB	(Danix)
11581	S11a	25-7	1020	Fri	427/30 Vnimanie 43645 71558 01170 ... 51743 37149 60056 Vnimanie, rpt msg, konec	USB	(AB)
4870	S11a	25-7	1955	Fri	370/00	USB	(Danix)
5815	S11a	26-7	1020	Sat	221/00	USB	(Danix)
8530	S11a	29-7	0915	Tue	484/00	USB	(Danix)
4870	S11a	30-7	1955	Wed	370/00 w/ Windows XP shutdown	USB	(Danix)
16530	S11a	31-7	1015	Thu	479/38 Vnimanie 50964 01285 51057 ... 00750 14144 18961 Vnimanie, rpt msg, konec	USB	(AB/Danix)
13883	S25	1-7	0230	Tue	104 27234 44444 25144 11111 00000 00000	AM	(Avare)
4625	S28	3-7	1313	Thu	MDZhB 89 314 KAJNOZOJ 04 51 42 98	USB	(DJPr)
4625	S28	10-7	0744	Thu	MDZhB 06 122 OBTOPAN 07 59 61 19	USB	(DJPr)
4625	S28	11-7	0501	Fri	MDZhB AKVANTINTA 13 59 KOMANDA 145 Priyom	USB	(Argon)
4625	S28	13-7	1133	Sun	MDZhB 18 517 BARIYETS 57 71 52 36	USB	(Danix)
4625	S28	13-7	1135	Sun	MDZhB 53 727 SIRENNYY 08 30 25 52	USB	(Danix)
4625	S28	13-7	1141	Sun	MDZhB 63 795 RASSEV 72 54 42 34	USB	(Danix)
4625	S28	17-7	1342	Thu	MDZhB 40 327 GALLIKT 39 00 70 92	USB	(toto)
4625	S28	20-7	1332	Sun	MDZhB 38 274 BEREZOVAYA 57 01 09 39	USB	(DJPr)
4625	S28	20-7	1334	Sun	MDZhB 97 672 POMAZANNIK 75 66 37 03	USB	(DJPr)
4625	S28	20-7	1336	Sun	MDZhB 07 287 DZhaVEC 30 22 51 22	USB	(DJPr)
4625	S28	20-7	1343	Sun	MDZhB 83 934 PILAV 25 49 23 23	USB	(DJPr)
3756	S30	10-7	1750	Thu	37PM 'O6P JH'J S7ZhG Z'1B CI9V ZhSk4 5FSShch DEAY DMC3	USB	(DJPr)
5448	S30	17-7	0351	Thu	27Shch' N1DU 53OB 78MV 12CI 79AJ P'HSch 6EHB CP3' ShchT3O	USB	(DJPr)
3756	S30	18-7	1735	Fri	F56Shch 9GSA ZhBZU 4RVZ 3VS' DKJ1 6I2Zh ZhD9V SJ5C 42BV	USB	(DJPr)
3756	S30	18-7	1844	Fri	81BR M7KS PMV5 L'GJ TShchShchS VKY1 HCLF 61HZh ZBIL L7O5	USB	(DJPr)
5448	S30	20-7	1231	Sun	8S1Shch 43 948 GOROTELIYa 33 32 96 97	USB	(DJPr)
5448	S30	20-7	1321	Sun	8S1Shch 20 044 PODSTRUZhKA 69 12 74 11	USB	(DJPr)
5448	S30	20-7	1327	Sun	8S1Shch 21 301 DESSOSOMA 23 41 18 05	USB	(DJPr)
3828	S32	2-7	1922	Wed	SLIVA-94 UTES-94 DZhIGIT-46 FONTAN-34 PENZA-07	USB	(DJPr)
5473	S32	9-7	1645	Wed	DSAS PMV5 50 659 96 137 POKOJ 12 04 59 75	USB	(DJPr)
5473	S32	9-7	1659	Wed	DSAS PMV5 54 064 11 751 OVChARNYJ 64 47 33 14	USB	(DJPr)
5473	S32	9-7	1714	Wed	DSAS PMV5 89 067 14 158 BENZOPIRAN 05 59 27 73	USB	(DJPr)
5473	S32	9-7	1729	Wed	DSAS PMV5 56 789 72 162 GIDROREZhim 07 26 17 04	USB	(DJPr)
5473	S32	9-7	1730	Wed	DSAS PMV5 58 313 83 171 LEJKOCITOZ 60 80 27 53	USB	(DJPr)
3828	S32	9-7	1734	Wed	DSAS PMV5 56 789 72 162 GIDROREZhim 07 26 17 04	USB	(DJPr)
3828	S32	9-7	1744	Wed	DSAS PMV5 74 348 90 721 SIGNALIST 24 67 30 88	USB	(DJPr)

Freq.	Code	Date	UTC	Day	Remarks	Mode	Contributor
3828	S32	9-7	1900	Wed	KURGAN-40 RUZh'E-26 ROSA-64 NEVKA-26 OTPOR-89 BIZON-64 KOVBOJ-39 ALEUT-09 LANDYSh-74	USB	(DJPr)
5473	S32	11-7	0502	Fri	ALFA-45 37 197 PALAMIDA 66 39 27 77	USB	(DJPr)
3828	S32	12-7	1858	Sat	ShTORA-62 RUZh'E-26 YaHTA-94 KURGAN-40 NEVKA-26	USB	(DJPr)
3828	S32	13-7	2040	Sun	OTPOR-89 BIZON-64 KOVBOJ-39 ALEUT-09 LANDYSh-74 NEVKA-26	USB	(DJPr)
3828	S32	14-7	1746	Mon	PENZA-07 DUBLER-68 STAZhER-29 ShTORA-62 NEVKA-94 KURGAN-40 RUZh'E-26 ROSA-64	USB	(DJPr)
5473	S32	16-7	1021	Wed	OTPOR-89 BIZON-64 KAVBOJ-39 ALEUT-09 LANDYSh-74	USB	(DJPr)
5473	S32	16-7	1028	Wed	10-count	USB	(DJPr)
5473	S32	18-7	1100	Fri	OTPOR-89 BIZON-64 KAVBOJ-39 ALEUT-09 ROSA-64	USB	(DJPr)
5473	S32	18-7	1305	Fri	SLIVA-94 UTES-94 DZhIGIT-46 FONTAN-34 PENZA-07 STAZhER-39 DUBLER-68	USB	(DJPr)
5473	S32	19-7	1035	Sat	KURGAN-40 NEVKA-26 OTPOR-89 BIZON-64 KOVBOJ-39 ALEUT-09 LANDYSh-74	USB	(DJPr)
5473	S32	20-7	0700	Sun	NEVKA-26 OTPOR-89 BIZON-64 KOVBOJ-39 ALEUT-09 LANDYSh-74	USB	(DJPr)
5473	S32	20-7	1139	Sun	ShTORA-62 YaHTA-94 KURGAN-40 RUZh'E-26 ROSA-64	USB	(DJPr)
5473	S32	20-7	1330	Sun	ALFA-45 85 858 PODGORNYY 02 85 79 50	USB	(DJPr)
5473	S32	20-7	1334	Sun	SLIVA-94 UTES-94 DZhIGIT-46 FONTAN-34 PENZA-07 DUBLER-68 STAZhER-29	USB	(DJPr)
5473	S32	20-7	1345	Sun	ALFA-45 00 155 REVENNYJ 50 72 23 78	USB	(DJPr)
21000	SDN	9-6	1535		MFA Khartoum wkg embassy Yemen	USB	(IARUMS)
21002.1	SDN	9-6	1539		MFA Khartoum msg to embassy Yemen	Pactor-1 100/170	(IARUMS)
3709	UM10	2-7	1726	Wed	Unid 10-mins net: NJ6A	CW	(JPL-J)
4137	UM10	2-7	1824	Wed	Unid 10-mins net: POCI	CW	(JPL-J)
3285	UM10	31-7	1716	Thu	Unid 10-mins net: LEQA //3880 kHz	CW	(JPL-Sib)
3880	UM10	31-7	1716	Thu	Unid 10-mins net: LEQA //3285 kHz	CW	(JPL-Sib)
13582	V07	6-7	0700	Sun	512 512 512 000	USB	(Dan)
12182	V07	6-7	0720	Sun	512 512 512 000	USB	(Dan)
13582	V07	13-7	0700	Sun	512 1 534 74 8314	USB	(HFD)
13582	V07	13-7	0700	Sun	512 1 534 74 98314 37275 78148 ... 38324 80101 14378 000 000	USB	(Dan)
12182	V07	13-7	0720	Sun	512 1	USB	(HFD)
12182	V07	13-7	0720	Sun	512 1 534 74 98314 37275 78148 ... 38324 80101 14378 000 000	USB	(Dan)
10282	V07	13-7	0740	Sun	512 1	USB	(HFD)
12182	V07	20-7	0720	Sun	512 512 512 000	USB	(Dan)
13582	V07	27-7	0700	Sun	512 512 512 000	USB	(Dan)
12182	V07	27-7	0720	Sun	512 512 512 000	USB	(Dan)
15388	V13	1-7	0700	Tue	New Star #4. Tune followed by coded messages in Chinese	AM	(AB-HK)
15388	V13	1-7	0800	Tue	New Star #4. Tune followed by coded messages in Chinese	AM	(AB-HK)
15388	V13	2-7	0700	Wed	New Star #4. Tune followed by coded messages in Chinese	AM	(AB-HK)
15388	V13	6-7	0700	Sun	New Star #4. Tune followed by coded messages in Chinese	AM	(AB-HK)
15388	V13	6-7	0800	Sun	New Star #4. Tune followed by coded messages in Chinese	AM	(AB-HK)
15388	V13	14-7	0700	Mon	New Star #4. Tune followed by coded messages in Chinese	AM	(AB-HK)
15388	V13	15-7	0800	Tue	New Star #4. Tune followed by coded messages in Chinese	AM	(AB-HK)
15388	V13	19-7	0700	Sat	New Star #4. Tune followed by coded messages in Chinese	AM	(AB-HK)
9725	V13	22-7	1200	Tue	New Star	AM	(SDX)
9725	V13	22-7	1300	Tue	New Star	AM	(Token)
15388	V13	31-7	0700	Thu	New Star #4	AM	(AB)
15388	V13	31-7	0800	Thu	New Star #4	AM	(AB)
9153	V26	3-7	0953	Thu	i.p. very weak	USB	(rusl)
10255	V30	16-4	1557		SD 07611, SN 45, message x3	USB	(Token)
10255	V30	17-4	1557		SD 07611, SN 45, message x3	USB	(Token)
10255	V30	18-4	1557		SD 07611, SN 45, message x3	USB	(Token)
10255	V30	22-4	1558		Vietnamese numbers	USB	(SDX)
10255	V30	8-5	1600		SD 77, SN 48, msg 178 grps long, message x3	USB	(Token)
10255	V30	9-5	1600		SD 77, SN 48, msg 178 grps long, message x3	USB	(Token)
10255	V30	12-5	1600		SD 77, SN 48, msg 178 grps long, message x3	USB	(Token)
10255	V30	13-5	1600		SD 77, SN 48, msg 178 grps long, message x3	USB	(Token)
10255	V30	3-6	1559		SD message x3	USB	(Token)
10255	V30	4-6	1559		SD message x3	USB	(Token)
10255	V30	5-6	1559		SD message x3	USB	(Token)
10255	V30	1-7	1559	Tue	SD message x3	USB	(Token)
10255	V30	2-7	1559	Wed	SD message x3	USB	(Token)
10255	V30	3-7	1559	Thu	SD message x3	USB	(Token)
10255	V30	14-7	1558	Mon	SD message x3	USB	(Token)
10255	V30	15-7	1558	Tue	SD message x3	USB	(Token)

Freq.	Code	Date	UTC	Day	Remarks	Mode	Contributor
10255	V30	16-7	1558	Wed	SD message x3	USB	(Token)
10255	V30	22-7	1558	Tue	SD 04211, SN 90, message x3	USB	(Token)
10255	V30	23-7	1558	Wed	SD 04211, SN 90, message x3	USB	(Token)
10255	V30	24-7	1558	Thu	SD 04211, SN 90, message x3	USB	(Token)
19145	X06	26-6	1530		Mazielka. Sequence: 164235	USB	(BCI)
9288	X06	27-6	0616		Mazielka. Sequence: 356412	USB	(BCI)
16115	X06	1-7	1056	Tue	Mazielka. Sequence: 215346	USB	(PH)
14501	X06	6-7	1115	Sun	Mazielka. Sequence: 361245	USB	(Danix)
12100	X06	8-7	1047	Tue	Mazielka. Sequence: 612534	USB	(PUK)
14675	X06	8-7	1051	Tue	Mazielka. Sequence: 612534	USB	(Danix/PUK)
16115	X06	9-7	1459	Wed	Mazielka. Sequence: 215346	USB	(PUK)
17470	X06	9-7	1528	Wed	Mazielka. Sequence: 216354	USB	(PUK)
16175	X06	10-7	0726	Thu	Mazielka	USB	(LG2)
13854	X06	10-7	0751	Thu	Mazielka. Sequence: 521634	USB	(Avare)
12213	X06	11-7	0959	Fri	Mazielka. Sequence: 615243	USB	(PUK)
14970	X06	12-7	1408	Sat	Mazielka. Sequence: 216354	USB	(Danix)
10127	X06	14-7	0928	Mon	Mazielka. Sequence: 421635	AM	(PUK)
16117	X06	14-7	0939	Mon	Mazielka. Sequence: 463125	AM	(PUK)
13517	X06	14-7	0947	Mon	Mazielka. Sequence: 463125	AM	(PUK)
12224	X06	14-7	0954	Mon	Mazielka. Sequence: 463125	AM	(PUK)
14683	X06	14-7	1237	Mon	Mazielka. Sequence: 364152	AM	(PUK)
11462	X06	15-7	0753	Tue	Mazielka. Sequence: 165423	USB	(PUK)
14358	X06	15-7	0826	Tue	Mazielka. Sequence: 154263	USB	(Avare)
18206	X06	15-7	0912	Tue	Mazielka. Sequence: 246531	USB	(PUK)
13961	X06	15-7	1123	Tue	Mazielka. Sequence: 216354	USB	(PUK)
16115	X06	15-7	1131	Tue	Mazielka. Sequence: 215346	USB	(PUK)
14446	X06	17-7	0748	Thu	Mazielka. Sequence: 162543 //10508 kHz	USB	(PUK)
10508	X06	17-7	0749	Thu	Mazielka. Sequence: 162543 //14446 kHz	USB	(PUK)
12122	X06	21-7	0655	Mon	Mazielka. Sequence: 165324	USB	(Danix)
11125	X06	21-7	1905	Mon	Mazielka. Sequence: 216354	USB	(TIng)
14419	X06	24-7	0746	Thu	Mazielka. Sequence: 521634	USB	(PUK)
14871	X06	24-7	0746	Thu	Mazielka. Sequence: 521634	USB	(PUK)
13510	X06	25-7	0506	Fri	Mazielka. Sequence: 216435	USB	(PUK)
9288	X06	25-7	0627	Fri	Mazielka. Sequence: 356412	USB	(PUK)
17463	X06	25-7	1030	Fri	Mazielka. Sequence: 256134	USB	(Danix)
16115	X06	31-7	0730	Thu	Mazielka. Sequence: 215346	USB	(Danix)
10943	XPA	1-7	1730	Tue	msg	MFSK-20/10Bd	(HFD)
10243	XPA	1-7	1750	Tue	msg	MFSK-20/10Bd	(HFD)
9243	XPA	1-7	1810	Tue	msg	MFSK-20/10Bd	(HFD)
11409	XPA	5-7	0600	Sat	456 456 000 456 456 456 000 456 456 456 000 09827 00001 00000	MFSK-20/10Bd	(AB)
13509	XPA	5-7	0620	Sat	456 456 000 456 456 456 000 456 456 456 000 09827 00001 00000	MFSK-20/10Bd	(AB)
14609	XPA	5-7	0640	Sat	456 456 000 456 456 456 000 456 456 456 000 09827 00001 00000	MFSK-20/10Bd	(AB)
11409	XPA	9-7	0600	Wed	msg	MFSK-20/10Bd	(HFD)
11409	XPA	9-7	0600	Wed	456 1 08753 00207 74004 ... 80769 84310 00161	MFSK-20/10Bd	(AB)
13509	XPA	9-7	0620	Wed	456 1 08753 00207 74004 ... 80769 84310 00161	MFSK-20/10Bd	(AB)
13509	XPA	9-7	0620	Wed	msg	MFSK-20/10Bd	(HFD)
14609	XPA	9-7	0640	Wed	msg	MFSK-20/10Bd	(HFD)
14609	XPA	9-7	0640	Wed	456 1 08753 00207 74004 ... 80769 84310 00161	MFSK-20/10Bd	(AB)
11409	XPA	23-7	0600	Wed	456 1 02649 00165 98063 ... 15497 08289 44301	MFSK-20/10Bd	(AB)
13509	XPA	23-7	0620	Wed	456 1 02649 00165 98063 ... 15497 08289 44301	MFSK-20/10Bd	(AB)
14609	XPA	23-7	0640	Wed	456 1 02649 00165 98063 ... 15497 08289 44301	MFSK-20/10Bd	(AB)
11409	XPA	30-7	0600	Wed	456 456 456 000 05631 00001 00000 10140	MFSK-20/10Bd	(AB)
13509	XPA	30-7	0620	Wed	456 456 456 000 05631 00001 00000 10140	MFSK-20/10Bd	(AB)
14609	XPA	30-7	0640	Wed	456 456 456 000 05631 00001 00000 10140	MFSK-20/10Bd	(AB)
20513	XPA2	1-7	0700	Tue	03861 00001 00000 00140	MFSK-16/20Bd	(AB)
20513	XPA2	1-7	0700	Tue	msg	MFSK-16/20Bd	(HFD)
18213	XPA2	1-7	0720	Tue	03861 00001 00000 00140	MFSK-16/20Bd	(AB)
18213	XPA2	1-7	0720	Tue	msg	MFSK-16/20Bd	(HFD)
15913	XPA2	1-7	0740	Tue	msg	MFSK-16/20Bd	(HFD)
15913	XPA2	1-7	0740	Tue	03861 00001 00000 00140	MFSK-16/20Bd	(AB)
14538	XPA2	1-7	2100	Tue	msg	MFSK-16/20Bd	(HFD)
13538	XPA2	1-7	2120	Tue	msg	MFSK-16/20Bd	(HFD)

Freq.	Code	Date	UTC	Day	Remarks	Mode	Contributor
12138	XPA2	1-7	2140	Tue	msg	MFSK-16/20Bd	(HFD)
15967	XPA2	4-7	2100	Fri	msg	MFSK-16/20Bd	(HFD)
13884	XPA2	4-7	2120	Fri	msg	MFSK-16/20Bd	(HFD)
12217	XPA2	4-7	2140	Fri	msg	MFSK-16/20Bd	(HFD)
15967	XPA2	5-7	2100	Sat	04839 00001 00000 10140	MFSK-16/20Bd	(Dan)
14538	XPA2	6-7	2100	Sun	07951 00051 78824 ... 41175 04003 45415	MFSK-16/20Bd	(Dan)
13538	XPA2	6-7	2120	Sun	07951 00051 78824 ... 41175 04003 45415	MFSK-16/20Bd	(Dan)
12138	XPA2	6-7	2140	Sun	07951 00051 78824 ... 41175 04003 45415	MFSK-16/20Bd	(Dan)
20513	XPA2	8-7	0700	Tue	802 008 01222 36113 46454 ... 36784 30851 66333	MFSK-16/20Bd	(AB)
18213	XPA2	8-7	0720	Tue	802 008 01222 36113 46454 ... 36784 30851 66333	MFSK-16/20Bd	(AB)
15913	XPA2	8-7	0740	Tue	802 008 01222 36113 46454 ... 36784 30851 66333	MFSK-16/20Bd	(AB)
16114	XPA2	12-7	1419	Sat		MFSK-16/20Bd	(AAI)
12217	XPA2	12-7	2140	Sat	02569 00087 51111 ... 21138 51386 12323	MFSK-16/20Bd	(Dan)
13538	XPA2	13-7	2120	Sun	04501 00001 00000 10140	MFSK-16/20Bd	(Dan)
20513	XPA2	15-7	0700	Tue	03825 00001 00000 10140	MFSK-16/20Bd	(AB)
18213	XPA2	15-7	0720	Tue	03825 00001 00000 10140	MFSK-16/20Bd	(AB)
15913	XPA2	15-7	0740	Tue	03825 00001 00000 10140	MFSK-16/20Bd	(AB)
11462	XPA2	15-7	0757	Tue	call up no message	MFSK-16/20Bd	(LG2)
20513	XPA2	18-7	0700	Fri	00689 00095 56599 ... 24285 11412 35272	MFSK-16/20Bd	(AB)
18213	XPA2	18-7	0720	Fri	00689 00095 56599 ... 24285 11412 35272	MFSK-16/20Bd	(AB)
15913	XPA2	18-7	0740	Fri	00689 00095 56599 ... 24285 11412 35272	MFSK-16/20Bd	(AB)
12217	XPA2	18-7	2140	Fri	04422 00001 00000 10140	MFSK-16/20Bd	(AB)
14538	XPA2	20-7	2100	Sun	00448 00047 14724 ... 87589 27859 54043	MFSK-16/20Bd	(AB)
13538	XPA2	20-7	2120	Sun		MFSK-16/20Bd	(SDX)
13538	XPA2	20-7	2120	Sun	00448 00047 14724 ... 87589 27859 54043	MFSK-16/20Bd	(AB)
12138	XPA2	20-7	2140	Sun		MFSK-16/20Bd	(SDX)
12138	XPA2	20-7	2140	Sun	00448 00047 14724 ... 87589 27859 54043	MFSK-16/20Bd	(AB)
20513	XPA2	22-7	0700	Tue	00689 00095 56599 ... 24285 10412 35272	MFSK-16/20Bd	(AB)
18213	XPA2	22-7	0720	Tue	00689 00095 56599 ... 24285 10412 35272	MFSK-16/20Bd	(AB)
15913	XPA2	22-7	0740	Tue	00689 00095 56599 ... 24285 10412 35272	MFSK-16/20Bd	(AB)
14384	XPA2	22-7	1904	Tue	i.p.	MFSK-16/20Bd	(SDX)
14984	XPA2	22-7	1904	Tue	i.p.	MFSK-16/20Bd	(SDX)
15884	XPA2	22-7	1904	Tue	i.p.	MFSK-16/20Bd	(SDX)
14538	XPA2	27-7	2100	Sun	08165 00001 00000 10140	MFSK-16/20Bd	(Dan)
13538	XPA2	27-7	2120	Sun	08165 00001 00000 10140	MFSK-16/20Bd	(Dan)
12138	XPA2	27-7	2140	Sun	08165 00001 00000 10140	MFSK-16/20Bd	(Dan)
20513	XPA2	29-7	0700	Tue	07194 00001 00000 10140	MFSK-16/20Bd	(AB)
18213	XPA2	29-7	0720	Tue	07194 00001 00000 10140	MFSK-16/20Bd	(AB)
15913	XPA2	29-7	0740	Tue	07194 00001 00000 10140	MFSK-16/20Bd	(AB)

Sonogram MFSK-20/10Bd XPA



CONTRIBUTORS

AAI	Antonio Anselmi, Italy	JPL-HK	JPL via remote rx Hong Kong
AB	Ary Boender, Netherlands	JPLJ	JPL via remote rx Japan
AB-HK	Ary Boender via remote rx Hong Kong	JPL-Sib	JPL via remote rx Siberia
Argonn	Argonn	KA1IIC	KA1IIC, Vince, USA
Avare	Avare	KC2TTK	KC2TTK, NY, USA
BCI	Bruno Casula, Italy	LG2	Les G, UK
BW3	Barry Williams, AL, USA	MCO	Mike Chace-Ortiz, PA, USA
Dan	Daniel, Argentina	MPJ	Jim, SW England
Danix	Danix111, Poland	Norave	Norave
DJPr	DJpeter via Radioscanner/Priyom	NR	Nick Rumple, NC, USA
DM0551	Dave moonlight0551, Sydney, Australia	PH	Paul H, UK
DSch	Don Schimmel, USA	PUK	Peter, UK (via Enigma 2000)
Eric	Eric	rusl	Russell, Australia
EW	Eddy Waters, Australia	SDX	Sat Dxer
Faux	Faux, Ireland	SFNY	Shawn, Flushing, NY, USA
Ghau	Glenn Hauser, OK, USA	SP1	Sylvain, France
GHn	Gary Hagermann, UK	tING	Thomas, Central Europe
GU	Gerhard, Germany	Token	TI, CA, USA
HFD	Hans-Friedrich Dumrese, Germany	Tom	Tom, Lincs, UK
HS	Hugh Stegman, USA	Topol	Tony, UK
IARUMS	IARU Monitoring Service	toto-NL	toto CZ via remote rx Twente
JPL	JPL, Ontario, Canada	vA	Von Ansbach
JPL-FNL	JPL via remote rx Finland	WP3	Wolfgang Palmberger

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

Google Earth images Copyright © Google

Portions of this newsletter may be used in electronic or printed hobby bulletins without prior approval so long as "Numbers & Oddities" is credited as the source. This newsletter may NOT be utilized, partly or wholly, in any other COMMERCIAL media format without the written permission of the Editor. Any breach of this may result in action under international copyright legislation.

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.gth.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/>