```
 678  27364  92836  09428  61208  74982  36498  32764  81276  81
 986  40932  70987  32123  49817  26346  81287  65491  87364  81
 721  75654  55656  12737  72727  72727  91918  63473  67867  7
 723  87629  37677  32612  53498  71296  28756  18276  98716  87
7269  76329  74698  76857  98670  27601  56701  57601  73648  1
 591  87364  87265  96710  27630  12673  84769  28743  98127  5
  8   63298  75698  27465  87326  49876  28376  81273  98615  6
  67  87432  74328  78674  29867  32867  67867  86786  43296  49
  57  68768  68763  34234  34238  68768  62342  48273  48768  23
 936  98432  32432  86743  43286  43286  43286  43286  43286  43
 743  86743  86743  39867  32867  86743  43286  43286  43243  86
 741  86743  86743  86743  86743  86743  86743  86743  86743  4
 543  98798  98754  98754  98754  98754  29867  67543  67986  86
  76  87698  69876  87698  69876  87612  12341  34867  86798  63
  67  43298  65656  56756  56123  32143  14321  32143  14321  321
      12787  58765  76587  58765  76587  58765  76587  58756  765
```

Numbers & Oddities

a.k.a. The Spooks Newsletter

Edition #196, January 2014

Editor: Ary Boender   email: udxf@udxf.nl

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

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

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

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

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

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

Hi, welcome to the 196th edition of Numbers & Oddities. Thanks for your contributions. Keep those logs coming !!!

Chris Friesen has published an article about Numbers Stations in Radio World for which Chris Smolinski and Ary Boender were interviewed. You can find the article in the Radio World issue of January 15th http://www.radioworld.com/digital-editions

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VOICE STATIONS

E06

4836 kHz, 02-01, 2031 UTC:
321 594 20
37839 35787 18273 60187 16202 95625 31691 52538 61025 22567
93296 67423 40968 16891 63781 34820 04842 60491 75924 04594
594 20 00000

4760 kHz, 03-01, 2130 UTC:
472 691 20
81249 09517 93028 65982 25187 61573 36043 39625 10466 81511
23803 48616 62374 28657 54375 71483 69205 52381 42427 89636
691 20 00000

E07

E07a: 7632/6832/5832 kHz, 17-01, 1610/1630/1650 UTC:
688 1 14430 7871 81
20253 16924 64156 86069 49144 32181 56439 21359 37935 69367
43028 92973 04256 38229 93409 87406 10743 48887 72721 55897
84366 00998 21576 68353 00774 04884 16817 05599 07681 04432
10795 96086 69919 18142 06918 09353 51974 77958 88044 36256
26809 52249 66012 37528 16325 28660 20382 25356 88730 01031
30992 21700 71854 38157 37823 97455 03990 01066 24513 64869
52471 94259 74642 32024 80002 50083 72163 99014 26697 48058
20039 00940 67885 03203 20353 68505 12994 29025 10500 12224
77266
000 000

E11/ E11a

10690 kHz, 04-01, 1400 UTC
981/10 Attention
99205 19678 29745 21473 74065 78553 26427 68088 79392 60254
Attention, msg rptd, Out

6923 kHz, 10-01, 1710 UTC:
957 25 Attention
10246 01313 50846 36872 91545 56782 19647 29695 67177 24195
20023 42787 84528 42558 70358 90860 00367 16583 68115 16612
77668 41760 90905 69029 42465
Attention, rpt msg, out

6923 kHz, 13-01, 1710 UTC:
951/27 Attention
14350 35126 40137 79577 08569 27985 77887 15766 70466 88609
59344 80023 37679 76691 77449 62856 58813 61800 99741 26003
74555 92663 65333 71842 24444 85849
Attention, msg rptd, Out

6923 kHz, 17-01, 1710 UTC (unedited version with repeated groups in the first part of the message):
959/20 Attention
68593 68953 63989 68989 43718 43718 00662 00662 74646 74646
81559 81559 01312 01312 27884 27884 09417 09417 22977 22977
50585 50585 36076 36076 23592 23592 33883 33883 28448 28448
13504 13504 79420 79420 94909 94909 86441 86441 12733 12733
Attention
68593 63989 43718 00662 74646 81559 01312 27884 09417 22977
50585 36076 23592 33883 28448 13504 79420 94909 86441 12733
Out.

10690 kHz, 18-01, 1400 UTC:
985 10 Attention
21691 54353 13430 50477 74002 23554 75741 03695 83971 30795
Attention, rpt msg, out

6923 kHz, 20-01, 1710 UTC:
955/30 Attention
84357 74044 51332 61876 18325 38561 80831 58610 34346 87883
96482 85792 81267 39032 39106 41617 66004 94817 29560 57466
11725 27450 43749 80757 04141 30357 47183 70199 30934 22379
Attention, rpt msg, out

6923 kHz, 25-01, 1810 UTC:
982 10 Attention
84829 04139 07713 80830 68142 06896 71627 72380 90130 37828
Attention, rpt msg, out

6923 kHz, 31-01, 1710 UTC:
955/20 Attention
66142 44444 43850 09848 76406 43605 43436 15560 12587 64733
96407 78051 67857 34247 62092 02353 21276 33085 11700 30521
Attention, rpt msg, out

E17z

11170 kHz, 15-01, 0800 UTC:
674 238 5 80744 86200 84706 42227 61736 238 5 00000

11170/9820 kHz, 17-01, 0800/0814 UTC:
674 238 5 80744 86200 84706 42227 61736 238 5 00000

E25

31-12	1214	9450	musical intro of Um Kalthoum with inta Omri song followed by a strange message
04-01	1230	9450	883 830 4 ? followed by empty message
15-01	1212	9450	Music followed by numbers (female voice)
15-01	1215	9450	musical intro of Um Kalthoum with inta Omri song followed by a strange message
16-01	1213	9450	Music. EE/YL. Msg 830 7 End of transmission, WinXP shutting down sound, carrier off
25-01	1221	9450	883 0
25-01	1419	9450	Music YL/EE 8 830 8 830 8 830 8 830 8 830 8 830 8 830 8 830 8 830 8 830 8 830 8 830 8 MESSAGE MESSAGE MESSAGE 333 END OF MESSAGE
27-01	1025	9450	i.p.

G06

4519 kHz, 09-01, 1830 UTC:
271 846 20
83167 14528 30778 13436 50234 67256 15654 27414 15637 75251
51820 37982 64162 18385 90381 77942 12692 22897 69231 14881
00000

4792 kHz, 10-01, 1930 UTC:
436 789 20
92411 69428 53871 76397 15673 18367 98356 25478 26743 86464
73852 53986 21496 53428 89657 26481 76534 09895 14765 06531
00000

G11

6433 kHz, 04-01, 1325 UTC
290/31 Achtung
20676 65646 81642 61352 31133 04437 76448 67418 52228 83283
75531 91617 36212 29988 36053 99999 45373 56131 51626 86569
61707 96929 99840 70846 05755 90699 78764 67989 05985 33014
37432
Achtung, msg rptd, Ende

S11a

6433 kHz, 04-01, 1020 UTC
221/38 Vnimanie
84186 10123 82579 66277 29794 97588 27495 87103 66616 06534
69459 76917 05479 08387 84867 30633 61558 92059 08083 37872
62917 94699 55604 94827 11931 70138 62182 47159 23749 16089
61798 89236 96452 28530 63435 29284 89471 13312
Vnimanie, msg rptd, Konec

S28 - The Buzzer

Mode: USB
Frequency: 4625 kHz

08-01, 1126 UTC:	MDZhB 75 598 MINONOSNYJ 31 42 46 15 Priyom
08-01, 1217 UTC:	MDZhB 32 350 ADOPTACIJA 21 91 97 70 Priyom
13-01, 1421 UTC:	MDZhB 24 217 BARVENA 06 80 51 51 Priyom
15-01, 1204 UTC:	MDZhB 85 657 TALOVKA 54 31 67 96 Priyom
16-01, 0835 UTC:	MDZhB 27 732 BALOBAN 92 20 23 53
16-01, 1038 UTC:	MDZhB 96 893 ChALM?? ?? ?? 88 56
16-01, 1043 UTC:	MDZhB 68 744 GAL??? 34 87 96 06
16-01, 1056 UTC:	MDZhB 25 994 KAPKAN 43 10 76 39 VALIUM 91 67 30 95
16-01, 1157 UTC:	MDZhB 31 648 GALIJa 13 98 34 06
16-01, 1503 UTC:	MDZhB 88 343 KALIOTEGI 34 64 27 40 GAKLIKT 39 47 37 31 KALIZAN 60 37 15 49
19-01, 1350 UTC:	MDZhB 50 952 NALIVKA 47 05 43 66 KALIZEJ 50 41 85 22
19-01, 1351 UTC:	MDZhB 60 809 VALERON 36 07 67 03
22-01, 0952 UTC:	MDZhB 46 131 PALATOChNYJ 81 64 76 73
22-01, 1336 UTC:	MDZhB 45 220 MALDYKA 93 66 09 27
22-01, 1346 UTC:	MDZhB 81 800 GALBAN 24 85 88 72
22-01, 1347 UTC:	MDZhB 54 155 TALAUD 32 15 99 40
30-01, 1025 UTC:	MDZhB 83 905 TEKSTOLIT 67 20 67 71

S30 - The Pip

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

4954 kHz, 31-01, 0500 UTC, the Pip on an unusual freqency

V02a
Dirección General de Inteligencia

date	UTC	frequency	remarks
4-1	0700	13435	Many 5FGs
28-1	2008	7554.9	YL/SS announcing 5F grps in LSB
31-1	0505	5855	Carrier only. V02a at 0505 UTC: Uno uno uno (rptd) dos dos dos (rptd) followed by a M08a transmission in AM(!) at 0515 UTC

V07

16037/14637/12137 kHz, 19-01, 0100/0120/0140 UTC:
661 661 661 1 343 57
32301 81117 18751 42311 40031 72473 20774 23511 99727 31755
04770 15080 93835 92249 03787 04755 70133 24097 38342 13284
10233 34083 92818 22129 03723 28105 58309 32119 24352 53340
18393 44412 14392 12249 35879 34920 71912 97930 35435 21343
14951 59310 51073 29404 05352 58712 49774 32175 88515 74731
89338 37014 39245 44430 39492 23338 92535
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

Current schedules
Station #?: 9276 kHz, 0200, 0300, 0400 UTC.
Station #3: 8300 kHz, 0500 and 0600 UTC.
Station #4: 9522 kHz, 0700 and 0800 UTC
Station #4: 8300 kHz, 1200 and 1300 UTC
Note: not all the skeds are not always on the air

V21
Cuban Babbler

6529 kHz, 01-01, 0200 UTC: Cuban Babbler

VC01 - Chinese Robot
Chinese Air Defense

Modes: USB and LSB

The station changes its frequencies frequently. Known frequencies:

3036, 3749, 3837, 4075, 4165, 4175, 4258, 4343, 4410, 4422, 4427, 4480, 4530, 4580, 4726.5, 5195, 5232, 5288, 5303, 5328, 5330, 5393, 5592, 5700, 5742, 5799, 5802, 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, 9000, 9169, 9192, 9290, 9340, 10508, 17392 kHz.

VC03
Chinese Air Defense network

8703 kHz, 23-01, 1222 UTC: Chinese YL, CW was heard just before voice tx on 8072

VC05
Chinese time stamp stations

4651 kHz, 11-01, 2045 UTC: in progress

MORSE STATIONS

MX
Russian Military beacons

Current cluster frequencies:	Cluster beacon slots:
3594, 4558, 5154, 7039, 8495, 10872, 13528, 16332, 20048 kHz	**.7 "D", Sevastopol**
	.8 "P", Kaliningrad
Other frequencies:	**.9 "S", Severomorsk**
G 8112 kHz	**.0 "C", Moscow**
L 6917.5, 8497.8 kHz	**.1 "A", Astrakhan**
V 3658, 4150, 6809, 6928, 7027.5 kHz	**.2 "F", Vladivostok**
R 5466 kHz (seldom reported these days)	**.3 "K", Petropavlovsk Kamchatskiy**
W 5835, 8112, 8162 kHz (Air Force)	**.4 "M", Magadan**

Reported beacons and channel markers.

European Cluster Beacons: D, P, S, C, L
Asian Cluster Beacons: F, K, M

Channel markers:
R: 4325.9 kHz
V: 3335, 3658, 5055.5, 7000, 8112 kHz (8112 kHz is Air Force)
G: 8112 kHz
W: 8112 kHz

M03

5358 kHz, 18-01, 1535 UTC:
797 38 =
49303 34827 61497 70358 22406 04298 22684 57616 34819 49102
65011 58829 48813 01045 15233 20128 12829 58467 20140 74851
94601 06889 46187 85074 32189 61252 34011 58174 21082 65817
16170 20125 44421 99061 (recording ends)

M08a
Dirección General de Inteligencia

date	UTC	frequency	remarks
1-1	1424	8096	Cuban cut nbrs
2-1	1418	8096	Cuban cut nbrs
2-1	1957	7554	Cuban cut nbrs
3-1	1355	8096.1	QWUUN NGIIA DAATA Cuban cut nbrs
3-1	2009	7554	Cuban cut nbrs
6-1	1405	8097	Cuban cut nbrs
7-1	1400	8097	Cuban cut numbers
7-1	2004	7554	TWAAN AGWUA NNGRN Cuban cut nbrs
8-1	1404	8096.2	Cuban cut nbrs
9-1	1413	8096.1	Cuban cut nbrs
12-1	1452	8096.2	Cuban cut nbrs in CW
14-1	2008	7554	i.p. At 2042 starts with ANDUW RIGMT cut nbrs. About every 5th sequence sends ANDUW RIGMT RIGMT.
15-1	1407	8096.3	Cuban cut nbrs
21-1	1424	8096.4	Cuban cut nbrs
21-1	2000	7554	Cuban cut nbrs
21-1	2300	8135	Cuban morse letters
22-1	1401	8096.1	Cuban cut nbrs
23-1	1415	8096.1	Cuban cut nbrs
24-1	1401	8096.4	Cuban cut nbrs
27-1	1400	8096.4	Cuban cut nbrs ADDDN NPRRA TTTAA
28-1	1426	8096.3	Cuban cut nbrs
29-1	1401	8096.3	Cuban cut nbrs
30-1	1401	8096.1	Cuban cut nbrs
31-1	0620	10345	in progress

M12

9176/7931/6904 kHz, 13-01, 1700/1720/1740 UTC:
257 1 8273 54
96805 99419 30272 93577 96701 82879 61834 43520 52075 48193
31548 15957 23657 07356 09194 72598 49738 98464 59186 73361
19511 77090 25792 90987 37332 86252 02118 12497 77139 60204
27334 27013 45866 97274 76302 65941 58989 72549 01725 07484
07472 12753 76050 43821 98306 51570 20699 37445 81741 45131
25119 31315 39681 81221
000 000

9176/7931 kHz, 30-01, 1700/1720 UTC:
257 1 3227 83
55150 86934 85409 56470 37599 32594 57179 14151 72173 53617
62830 11312 58612 28399 67541 59584 93562 22809 68795 81906
55184 62557 50393 91905 34825 87354 58503 78691 51708 06972
31237 29967 18413 81798 71588 24034 40822 28167 31312 17067
39453 86745 42750 29229 19032 92989 89750 99764 90452 00626
51107 93501 46581 20094 17004 98616 87545 74737 96923 69178
78798 05095 09181 58680 27449 17326 67295 06765 03295 14843
70372 18710 49205 50967 28392 79160 79553 66357 51497 03497
28575 49286 41839
000 000

8116 kHz, 30-01, 1740 UTC:
124 1 3577 78
59616 42019 64432 46365 7?038 50186 75??7 65300 75954 62522
48821 61869 ???97 10105 ?0776 7724? 41341 69552 1?310 9?726
78519 50530 89896 55448 92706 46737 93531 91898 30981 28441
85250 7?235 04096 25262 31682 86695 90635 24119 58189 23142
41849 52269 14440 26116 00230 42274 10429 29999 93917 77451
16429 17944 80302 91749 22447 68900 94344 51?37 30027 739??
?6259 6???? 46262 84530 ?7192 10220 20181 1?046 84467 ??881
86124 32774 60180 27608 49??4 58653 ???93 10901
000 000

10343/9264 kHz, 30-01, 1800/1820 UTC:
124 1 4980 101
88291 33977 12323 67632 27904 93245 29762 46788 66189 72843
29150 89926 07135 78317 43230 21312 35916 06461 70215 30780
94087 70890 05076 87149 96498 83547 75710 11562 63841 85434
04137 49072 50881 38713 03001 53624 30845 77784 67760 46157
04887 28773 19731 19266 47045 13593 62098 84510 67478 61946
03273 29525 41860 87767 36644 60650 10469 08825 34683 42030
80108 29917 95143 32218 41334 82187 81215 57800 78384 04602
37300 32522 37218 95662 92983 04191 75462 59133 35221 33997
90366 48227 96295 75353 49769 70748 80783 28200 02388 26936
55158 86427 68017 04149 19848 01258 86406 94860 03121 45970
99370
000 000

M21 + variants
Russian Air Defence Forces
Войска ПВО   Voyska PVO

Id 0: 4951.5 kHz
Id 8: 4866, 6911.5 kHz

M89
Chinese military

Three new strings were logged in January:
V WZG6 WZG6 WZG6 DE 4VTG 4VTG
V GKLO GKLO GKLO DE TYUI TYUI (suspect callsign change for ASDF)
V JKDJ JKDJ JKDJ DE SLBC SLBC

Also several new frequencies were noted. Most of the logs were submitted by JPL. Thanks man!!!

Stations, callsigns and strings:

VVV Q2M Q2M Q2M DE NYZ NYZ	CV8D	8IUS DE DGO0 K
V 7NPE 7NPE 7NPE DE QV5B QV5B	3BFC	DE 4NQQ
V DKG6 DKG6 DKG6 DE 3A7D 3A7D	7FDS 7FDS 7FDS DE 48DC 48DC K	J6OX DE DGO0 K
V RXP7 RXP7 RXP7 DE CZT2 CZT2	IWJS IWJH DE 7VSN 7VSN	8. DE DGO0
V H2FL H2FL H2FL DE DRV8 DRV8	... DE IWJS IWJH	R DE CMOY K
V DP9J DP9J DP9J DE CQ CQ	VVV VVV .2IS DE MGCI WGTN	DE DGX4
V MW3D MW3D MW3D DE 2SLC 2SLC	VRD5	DE KR6K
V WZG6 WZG6 WZG6 DE 4VTG 4VTG	F7KM	WTHOR DE DGO0
V YUQW YUQW YUOQ DE ASDF ASDF	8ONQ DE DGO0	TIGQ4
V GKLO GKLO GKLO DE TYUI TYUI	4KSU DE DGO0 K	BNGC DE XSV85
V JKDJ JKDJ JKDJ DE SLBC SLBC	DKRN5	J5OR DE DGO0 K
V BRH0 BRH0 BRH0 DE 8NGG 8NGG		

Messages:

6666 kHz, 01-01, 1410 UTC:

ZGV. DE K8CJ K
QSB QSY CODE 2222 K (New format for changing frequency)
R QSB A QSY CODE 2222 K
R QSB AGN MAGN QSB U Z AGN QSB U QSY CODE 5555 K
R QSB U QSY CODE 3300 K
R DE K8CJ QSA 3 U 7G GA K
GA
R AS
R R RPT 9W K
R 14W K
R QSL 2217 K
R 7G NR 202/CCK CK 95 03 0101 2200 RMKS 4208 TO 1248 =
TRU4 U6UD T665 7UT5 7DUA 5454 ND6A N34D TADD TTTA D3NA (Cont'd)
AR K
R 74W DA5U K
AGN 21W U7N. K
R 21W U7ND K
R U WK NR K
R U WK NR K
R U WK NR K
R U NR GA K
R U NR K
R SK GB

6847 kHz, 03-01, 1051 UTC:

AR
OK ... NR 24 Q (Very weak – mostly unreadable)
R NR . 1 234 . K
NR . 1..3..
AGN GA
R QSL 1..8 K
NIL SK

8110 kHz, 09-01, 0225 UTC:

3DAT 656A 55TD T7T7 T4U5 (Cont'd – 0225z)
III = ... AR (0228z silent)

5555 kHz, 14-01, 0016 UTC:

S IWJH DE DE 7VSN 7VSN
VVV ... DE IWJS IWJH K K K
QSA 2 QSA 2 K K
C IEC = = 8542 IEC = = 8542 AR K K
VVV VVV .2IS DE MGCI WGTN QSA QSA K (0021z silent)

5555 kHz, 22-01. 1441 UTC:

2 K (Just missed the msg nr)
= = D6D5 TDUA 7A7T DUA5 755A T44N 3T3A AUD6 TA65 TTTA DNUA (Cont'd)
III III III = = 4D? = 4D.. AAD3 ADNA (Cont'd)

7777 kHz, 02-01, 1107 UTC:

TNT6 635N 4A5T (Cont'd)
AR (1112 silent)

6666 kHz, 04-01, 0040 UTC:

T6D4 DN47 AR AR K
OK QSL 0845 K (Both stations on this frequency)
RR OK U GA
HR 7G GA 7G NR NR 4041 CK 80 33 0104 0830 RMKS 3762 TO 3442 K
R R RPT NR K
NR NR 4041 C
OK R U GA = =
644N DN6N ANUU 5UU5 T566 AUUU TT5N UDA3 54DU 65NN (Cont'd)
AR AR K
R OM OM QSL 0855 M
OK
OK GB FB
GB GB (0048 silent)

6666 kHz, 03-01, 1026 UTC:

AGN RM AGN R = = A646 TD6U 4AUT 7? 7. ? 7545 5 ? 5M
AGN AGN = = = A646 TD6U 4AUT 7545 5D7A 7U5D ? 7U5D DAUU (Cont'd)
III = = 4 = 3T54 U563 TN74 5D3? 5D3A 4NND 353U (Cont'd)

7777 kHz, 10-01, 1430 UTC:

AR AR AS
R R R R R K K R R R R R R R = U36. AR K
R BT U53N AR
AGN
R BT 34A5 AR
R R SK GB

3797//4512 kHz, 13-01, 1815 UTC:

7TD3 N7DU A43D 4T33 737A T574 AR
CQ/511A EEE 507 D56 54.3 MSG NR .5. CK 96 .2 0114 0210 RMKS 5747
TO .11.
5507 5567 5.43 =
U5.3 34.. NNND A37U .... (Cont'd)
737A T574 AR
V H2FL H2FL H2FL DE DRV8 DRV8

5588 kHz, 16-01, 1033 UTC, i.p.:

MSG NR 063 CK 301 44 0116 1830 =
4D6A 5DAN A4N. N45T 4N.6 75.. 6U7A 4A43 TT6D TT..(Cont'd)
AR
MSG NR 063 CK 301 44 0116 1830 =
4D6A 5DAN A.. N46 4N56 76UD 6U7A 4A43 TT6D TTA3 (Cont'd)

6666 kHz, 11-01, 0234 UTC:

CV8D
3BFC DE HD (Did not complete callsign)
QSA 2 K
IEC BT 2820 AR
AM
7FDS 7FDS 7FDS DE 48DC 48DC K
DYB4 HR QSA 2 K
RHR QSA 2 IEC = 2.20 AR
ON EEE OK .. O. HR NR 45 AR
MSG NR 01/CCK CK .. 42 0106 0810 .EEEE
MSG NR 01/ EEEE
MSG NR 01/CCK CK 55 42 0106 0810 (Format suggests QV5B family)
MSG NR 01/CCK CK 55 42 0106
MSG NR (0251z silent)

3333 kHz, 16-01, 1333 UTC, i.p.

AR = N7DN D4DA D7T6 57TA UN73 UTA6 NDD5 (Cont'd)
III = NN4A D54D A4T6 NU5A DN7N 7TNU (Cont'd)
U746 AN76 N5T7 D7A4 T547 D6T5 NAA5 6A3A U47N
III = 35? 3TDU U574 TNA3 5D7A (Cont'd)
3UDN 3436 U4U3 A5UT UADA 5DN4 U3D6 4? N4NT 36AT 6N7T 436D ND47
T5TA 733T 7N75 AR
= N7DN D4DA D7T6 57TA UN73 UTA6 NDD5 (Cont'd)
3UDN 3436 U4U3 A5UT UADA 5DNU U3D6 4? N4NT 36AT 6N7T 436D ND47
T5TA 733T 7N75 AR
= N7DN D4DA D7T6 57TA UN73 UTA6 NDD5 (Cont'd)
N4NT 36AT 6N7T 436D ND47 T5TA 733T 7N75 AR
AS
M QSL 0156
R R SK GB

5555 kHz, 19-01, 1417 UTC:

DE VRD5 K K
CIE 2939 DE EEEEEEE = = =
U N3D5 B4UN 7G NR NR 004 ///C
CK CK 79. 80 11 970 A KA 0119 2000 RMKS = =
7G GA K F 7G NR NR 004/CCK CK R

3333 kHz, 20-01, 1428 UTC:

VV NKHA R. C DE 5ULQ HW 7N K (There are callsigns here, but your guess is
as good as mine)
VV NKQC MG.AFN VV DE 5ULN K
VV KN.CMX. 5U. HR .. K
VV ZC M.QHI .. K
QSA .
VV .GE. AGN R N. MO. AGN
VV .CTA MOC..
N.. CMZ QCK K
.. ? K
IEC = 565. AR K (Normally associated with exercise tfc)
R HHNI. NNT4 K
R NI. K
NIL ..T HR.. K
H... GA K
R HH MSG GA NR C 22/CCK 36 TR.. FT.3T EN K BNSG EEEE
CCK 6.. RN T. EEEEE /45NNT T7 6. RN K
02/CCK K
TIME FT.ITEN TIME ...
= N.BUD45 .UN 76NN NA.. (Cont'd)

5555 kHz, 19-01, 2356 UTC:

QSY 1 QSY 1
F7KM F7KM F7KM
VVV F7KM F7KM /EX DME 0800 RMKS CQ/
NR 7073/EX TIME 0800 =
= ABC1/CBA2 =
= ABC1/CBA2 AR K (
QSY QSY 1 VV
AQA1 WQA1.
NR 7074/EX TIME 0803 RMKS CQ/
NR 7074 (2358z - Silent)

5555 kHz, 22-01, 0910 UTC:

VV BNGC BNGC DE XSV85 XSV85
(Appears to be using China allotted callsigns)
VV BNGCD BNGC DE XSV85
NR 003/CCK 110 24 0122 EEEEEE (Message format indicates QV5B family)
NR 003/EEEEE
NR 0053 =
NR 003/CCK 110 24 0122 1530* 7673 7327 745UU35631B5A 57DN UD55
TD3N764V ?
N743
3SU33 7D56D54 45U3ST
NR 003/CC =
NR C NR 003/CCK 5110 24 0A221 530
7673 73U7 745U UU35 63A6 5A57D A576 EE 7E 765U A67U 6T4A 46T3 N7DT
DATEEE
67A5
DA46 7A4ND U74 SR 7G CLS 24G A LPSE CCEY. K
MIS M =
MIF1EE0 EEEEE
UXL PSOA ODZZ SS ODZY KVNR PASX LWOIS .VZ UD1 BOFMG CYF1 =
HSBLXU GMSL M GOSPZEOTHRNK TT TBX
LCIJZVK S (0919z)
= T73N 4AU5 76NT 3467 NAV ? NAU6 D4NA UI ? U5DA5. ? 5TUI ? 5TUS 35T3
73D45
= = UT7T 57N4 5NDA 4VA
VA Z4AN T374 67A5 A7DU 45D
AU37
= = = T73N 4AU5 76NT 3346 7NAU 6D4N AUU5 DA5T IU733 6NA6 T3T7 374
= = = 763A NT37 567A 5A7D UTDA 5ATD 7N3D 4NAU 577D 335U 4
= = IUTDA SATD7N3D4NAU567DS35U446NT46A4
= T73N 4
= 4AU5 D76N T346 7NAU 6D4N (Cont'd)

4132 kHz, 28-01, 1448 UTC:

5341/2015309 531753 10 52 85
= VV HR 7G NR 028/CK 2.. 2 0128 21.. EEEE
7G NR 028/CCK CK 22 82 0128 2255 RMKS .560 TO 53.0 5303 5340 6201 5309
5317 ..10 5386 = = =
Message format would indicate that SLBC is part of the QV5B family
73 ? = 735N 5UNT 65AD 6747 6D56 .47D 6T5 5U4N N.A7 5UN5
63N3 TU67 NAUA N... 3D4A N43D NTTD ..U7 7.T5 ..4A 3ND6 N6U.
AR QSN IA ? K
QSL ? HR WK NR HR WK NR 0022
OK DJ DE SLBC SLBC

5555 kHz, 21-01, 1410 UTC.
Long exercise traffic.

8ONQ DE DGO0 K
R QSA2 K. R QSA2 K
= 8O EEEEE= 87EEEEEEEE
8735 AR K
S = 1033 AR K
HR NR 215 K NR 215 K R HR NR 85 K
R AS
4KSU DE DGO0 K
R R DE DKRN5
QSA2 K QSA2 K
= 87... AR K
R R 1033 AR K
HR NR 215 K
HR NR NOT
R AS
J5OR DE DGO0 K J5OR DE DGO0 K
8IUS DE DGO0 K 8IUS DE DGO0 K
DE 4NQQ K
R R QSA 4.
HR QSA 2 K
R R 8G... AR
IEC = 1033 AR K
HR NR 215 K
HR NR 32 K
32.. K
AS
J6OX DE DGO0 K
8. DE DGO0
R DE CMOY K
QSA 2 K
SA 2 K
R HR QSA 2 K
= 8735 AR K
R .. = 8725 EEEEEE = 8736 AR EEE 8735 AR K
R IEC = 1033 AR K
R R EEEE HR NR 215 K
R HR NR NOT K
AS
R..EEEE
OR DE DGO0 K
RR5R DE .... 8 K
1 K
NR HR QSA 2 K
= O..73 H AR K
R R = 1033 AR K
R R HR NR 215 KR
HR NR 33 K
HR 7G GA 7G NR 08/CCK CK 55 95 0121 2200
RMKS CQ =
(All stations on this frequency)
B546 ND3D D3U7 AR
DE DGO0 K
DE DGX4 K
QSL K
R QSL 2225 K
R AS
4KSU DE DGO0 K 4KSU DE DGO0 K
DE KR6K
QSL K
R QSL 2225 K QSL 2225 K
R U QSY TO NR 20 K
R R
SK

OR DE DGO0 K
WTHOR DE DGO0 K
... DE DGO0
8IUS DE DGO0 K
QSL K
R OK QSL 2225 K
R 20 EEEEE U QSY TO NR 24 K
R SK
J5OR DE DGO0 K J5OR DE DGO0 K
DE DGO0 K
R DE OM... QSL K
R QSL 1029 EEEEEE QSL K
R QSL 2229 K
U QSY TO NR 13 K
R RPT K
SK
UQSY TO NR 13 K
SK
R R K
JSOR DE DGO0 K
NR HR 65OM8 K
QSL K
R R QSL 230 K
1NO K NR QSL 2230 K
QSY TO NR 01 K
R R K SK
R RR SK
8ONQ DE DGO0 K
R DE TIGQ4 K
R R QSA 2 K
HR QSA 2 K
= 8735 EEEEE = 8735 AR K
= 1033 AR K
R HR NR 215 K
R HR NR 85 K
GR EEEE HR NR 85 KHR MSG GA
GA
MSG NR 8 CK 30 95 0121 2236 RMKS QSP
9189 TO 6937/6979/6909/6949/6699/6932
K
GA = =
63AU 4TD3 74UT 5D3U 4NAT 74UT A65T 3NTA
TUTT TTTA 3.7D
34ND D5A7 5U4D D56A .DUD (Cont'd)
AR
R 14W K
14W = 5U4D AR
QSL 2242 K
R R EE
EE 08/EX 22 EEEE
EE HR 08/EX 2224 RMKS 9189 TO 6979 K
K GA
= = = XZCT0/DNMP4 AR
QSL 2226 K
U EEE GA K
AS
GA K
EE NR 08/EX 2227 RMKS 6979 TO 9189 =
HPOT2/SEBP5 AR K
QSL 2229 K
R (1445z)
CRT FM E K
AGN K
CRT FM EE K
AGN
AS

R
7G GA K
GA
7G NR 08/CCK
GA
= =
5NUN ? DA 3A46 TDUA 4D3D (Cont'd)
AR K
QSL K
2P K
RRR 10K
R = TTAU AR K
R 1P K
RR 13W K
13. = 6NTA AR K
R QSL 2259 K
R SK
SK GB
GB
VV
VV 4KSU DE DGO0 K
4KSU DE DGO0 K
U QSY TO NR 8888 K
4KSU DE DGO0 K 4KSU DE DGO0 K 4KSU DE
DGO0 K
R R K
U QSY TO NR 20 K (Could NR 20 be 8888 as
sent above?)
4KSU DE DGO0 K 4KSU DE DGO0 K VV 4KSU
DE DGO0 K
VV 4KSU DE DGO0 K
K K K K K K K K K
R R DE S6VVV 4KSU DE DGO0 D K
K K K K K K K K K K K K K K N K K N G0 UQSY TO
NR EEEE
A ? .. K
NU ? NU ? N DE
4KSU DGO0 4KSU 4KSU DE DGO0
4KSU DE DGO0 K
U QSY TO N EEEEE UQSY TO 8888 K
4KSU DE DGO0 K
U QSY TO 8888 K U QSY TO 8888 K
4KSU DE DGO0 K
VV U QSY TO NR 20 K V U
U QSY TO NR 20 K
DE DE
HR DE DGO0 K DE K K
= 8735 AR K
HR NR 215 K
R R
VV UI E
EE NR 08/EX 2341 RMKS 9189 TO 6134 =
= = HTQ9/SXAN7 AR K
EE GA K (Checked 8888 but N/H)
GA K
AGN (Another weaker station on this freq now)
R QSL ..43 EEE QSL 2344 k
R
HR MSG NR EEE NR MSG AS
MSG NR 08.. 11EE 6 0121 2330 RMKS 9189...
932 K
= =
DT5T .... (Cont'd – weaker station getting
stronger and making it hard to copy DGO0)

M97
Vietnamese numbers

Frequency: 10375 kHz
Mode: Morse

10375 kHz, 22-01, 1507 UTC: in progress: SD84 SN58

M901 new station

Paul H discovered the station on 14 Jan and mailed the log to UDXF. JPL found it on a second frequency on the 18th and on 29 Jan Enigma allotted an id to this station: M901. If you can listen, please try to copy it and let us know what you have heard. A complete text would be nice ☺

Paul reported the station on 14-1, 081 6 UTC, 19292 kHz, CW
VVV KLM KLM KLM 1/50 NW NW
Then into very fast 30+wpm with 5 figure groups, then end at 0824z with
QRU QRU SK

JPL reported the station on 18-01, 0813 UTC, 16720 kHz, CW
In progress – very fast
12341 92683 14..2 (Cont'd)
QRU QRU SK SK

Avare reported the station on 3 Feb at 0805 UTC on 16718 kHz. The message is a bit garbled and only partly jotted down.
VVV KLM KLM 1/51 NW = =
725T 4197 3294 7438 2723 1626 T383 9262 6T98 66T3 8242 5477 98 593T 6842 3122 51 = K

Skeds:
16720 kHz at 0810 UTC on Mon, Wed, Sat
Also heard on 19292 kHz at 0810 UTC and 16718 kHz at 0805 UTC.

Formats:
VVV KLM KLM KLM 1/50 (R2) NW NW
5FGs, Msg No., GC, Day-of-Month , Time
50 x single 5f grps
QRU QRU SK SK

Also noted with a different start, the use of "="=, 4FGs and a different ending

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MC03
Chinese Air Defense

3333 kHz, 13-01, 1826 UTC:
NR 30U4 6U47 TAUD AR
NR 30U4 TTTN AR
NR 5AD4 6U47 TAUD AR
NR 5AD4 TTTN AR
NR 5UT4 D535 TAUD AR
NR 5A74 45U7 TAUD AR

3330 kHz, 19-01, 1408 UTC: Chinese Air Defense Tracking

MCV03

8072 kHz, 23-01, 1220 UTC: Morse, followed by voice on 8703 kHz

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VARIOUS MODES

SK01 / HM01
Dirección General de Inteligencia

Notes
02-01 (Don)
I wonder what prompted the start of the frequent practice of calling Sunday the first day of the week??

11-01 (Don)
The study of Oct, Nov & Dec 2013 intercepts revealed that there is no fixed period for either the groups with the 5th digit increase or the groups which remain the same. Some interesting observations follow. Such transmissions are what leads to the suspicion that a lot of these are dummy messages.
- Nov 23 there were repeats of 21 Nov groups and on
- Nov 24 there were repeats of 20 Nov groups.
- 4 Dec repeats of 21 Nov groups.
- 5 Dec a repeat of Oct 20th and 22-26 Sept groups.
- 7 Dec repeats of 22-26 Sept groups.
- 27 Dec - 30 Dec 80581, 80582, 80583, 80584. Then on 2100 sked changed to 56792.
- 31 Dec - 7 Jan remained 56792.
- 8 Jan 80587. So sometime between 30 Dec and 8 Jan 80585 and 80586 were sent.

30-1 (Don)
Also your attention is directed to five of the groups having the 5th digit increase by 1 and a new group for group 2.

Well they have done it again. The use of the 83381 sequence dates back to September when the sequence was repeated 16-21 Sept. There was a group change on 22 Sept but on 24 Sept it was back and forth with 83381 and 56801 sequences. On Sept 27 back to the 83381 groups and by 1 Oct the groups had been changed. This practice just convinces me that a good deal of the traffic passed is DUMMY Traffic.

Logs

date	UTC	frequency	remarks
1-1-2014	0500	5855	56792 03633 37674 1865 62113 66163
1-1-2014	0600	11435	56792 03633 37674 1865 62113 66163
1-1-2014	0700	9330	56792 03633 37674 1865 62113 66163
1-1-2014	0800	9065	
1-1-2014	1618	11435	56792 03633 37674 18655 62113 66163
1-1-2014	1708	11530	56792 03633 37674 18655 62113 66163. Later in sked the sig had an echo.
1-1-2014	2104	11635	56792 03633 37674 18655 62113 66163
1-1-2014	2159	10715	56 (stopped) 56792 03633 37674 18655 62113 66163
1-1-2014	2259	11536	56792 03633 37674 18655 62113 66163
1-1-2014	2300	11530	66163 56792 03633 37674 18655 62113
2-1-2014	0700	13435	56792 03633 37674 1865 62113 66163

date	UTC	frequency	remarks
2-1-2014	0758	11635	56792 03633 37674 1865 62113 66163
2-1-2014	1615	11435	56792 03633 37674 18655 62113 66163 56792 etc
2-1-2014	1659	11530	56792 03633 37674 18655 62113 66163 56792 etc
2-1-2014	1759	11635	56792 03633 37674 18655 62113 66163 56792 etc
2-1-2014	2059	16180	56792 03633 37674 18655 62113 66163 56792 etc
2-1-2014	2200	17480	56792 03633 37674 18655 62113 66163. Started, stopped, then starts again 56792 etc
2-1-2014	2259	17540	56792 03633 37674 18655 62113 66163 56792 etc nbrs were doubled up briefly.
2-1-2014	2300	17540	66163 56792 03633 37674 18655 62113
3-1-2014	0520	5855	56792 03633 37674 18655 62113 66163
3-1-2014	0600	10345	56792 03633 37674 18655 62113 66163
3-1-2014	0600	11435	
3-1-2014	0700	9330	
3-1-2014	2300	11530	66163 56792 03633 37674 18655 62113
3-1-2014	1603	11435	56792 0363 37674 18655 62113 66163
3-1-2014	1659	11435	56792 0363 37674 18655 62113 66163. Should be on 11530. Shifted to 11530 at 1701 UTC
3-1-2014	1701	11530	56792 0363 37674 18655 62113 66163. Shifted from 11435
3-1-2014	1758	11635	56792 0363 37674 18655 62113 66163
3-1-2014	2108	11635	56792 0363 37674 18655 62113 66163
3-1-2014	2205	10715	56792 0363 37674 18655 62113 66163
3-1-2014	2259	11530	56792 0363 37674 18655 62113 66163
4-1-2014	1604	11435	56792 etc mixing with another message
4-1-2014	1613	11435	i.p. out of sync voice/data (double tx) 56792 66163
4-1-2014	1711	11530	56792 03633 37674 18655 62113 66163
4-1-2014	1800	11635	56792 03633 37674 18655 62113 66163
4-1-2014	2103	16180	Starts then stops. When starts again there are two HM01 sigs on freq.
4-1-2014	2208	17480	56792 03633 37674 18655 62113 66163 Two messages at same time. Mix stops at 2214 UTC
4-1-2014	2250	17480	in progress
4-1-2014	2250	17480	56792 03633 37674 18655 62113 66163
4-1-2014	2300	17540	56792 03633 37674 18655 62113 66163
4-1-2014	2300	17540	56792 03633 37674 18655 62113 66163
5-1-2014	0700	9330	56792 03633 37674 18655 62113 66163
5-1-2014	1744	11530	56792 etc
5-1-2014	1803	11635	56792 etc
5-1-2014	2059	11635	56792 etc. Another msg mixed in briefly
5-1-2014	2159	10715	56792 etc.
5-1-2014	2300	11530	56792 etc
6-1-2014	0700	9330	56792 03633 37674 18655 62113 66163
6-1-2014	1606	11435	56792 03633 37674 18655 62113 66163
6-1-2014	1705	11530	56792 03633 37674 18655 62113 66163
6-1-2014	1828	11635	56792 03633 37674 18655 62113 66163
6-1-2014	2058	11635	56792 03633 37674 18655 62113 66163
6-1-2014	2211	10715	56792 03633 37674 18655 62113 66163
6-1-2014	2258	11530	56792 03633 37674 18655 62113 66163
7-1-2014	1604	11435	56792
7-1-2014	1659	11530	56792 etc at 071659
7-1-2014	2103	11635	Carrier on then off at 2103
7-1-2014	2106	16180	Now tuning on this freq. 56792 etc
7-1-2014	2159	17480	56792 etc
7-1-2014	2259	17480	56792 etc. Should be on 17540. Shifts to 17540 at 2310
7-1-2014	2300	17540	66163 56792 03633 37674 18655 62113
7-1-2014	2311	17540	56792 etc

date	UTC	frequency	remarks
8-1-2014	0600	11435	56792 03633 37674 18655 62113 66163
8-1-2014	1640	11435	80587 55242 01061 44784 68732 48838
8-1-2014	1700	11435	80587 55242 01061 44784 68732 48838. Shpuld be on 11530 kHz
8-1-2014	1714	11530	80587 55242 01061 44784 68732 48838. Now shifts to this freq. 80587 etc
8-1-2014	1821	11635	80587 55242 01061 44784 68732 48838
8-1-2014	2101	16180	80587 55242 01061 44784 68732 48838 Should be on 11635 kHz.
8-1-2014	2248	10715	80587 55242 01061 44784 68732 48838
9-1-2014	1607	11435	04111 etc
9-1-2014	1658	11530	04111 etc
9-1-2014	1758	11635	04111 etc
9-1-2014	2058	16180	04111 etc
9-1-2014	2230	17480	04111 etc
9-1-2014	2259	17540	04111 etc
10-1-2014	1620	11435	04112 55245 01064 44787 68735 02103
10-1-2014	1731	11530	04112 55245 01064 44787 68735 02103
10-1-2014	1802	11635	04112 55245 01064 44787 68735 02103
10-1-2014	2102	11635	04112 55245 01064 44787 68735 02103. Stopped at 2201 UTC
10-1-2014	2103	10715	04112 55245 01064 44787 68735 02103
10-1-2014	2224	10715	Spanish 5FGs + RDFT data
10-1-2014	2258	11530	04112 55245 01064 44787 68735 02103
11-1-2014	0500	5855	04113 55246 01065 44788 68736 02104
11-1-2014	0600	11435	04113 55246 01065 44788 68736 02104
11-1-2014	1452	14375	Radio Habana, Cuba on HM01's frequency for about 20 mins.
11-1-2014	1605	11435	04113 55246 01065 44788 68736 02104
11-1-2014	1659	11530	04113 55246 01065 44788 68736 02104
11-1-2014	1758	11635	04113 55246 01065 44788 68736 02104
11-1-2014	2158	16180	04113 55246 01065 44788 68736 02104
11-1-2014	2213	17480	04113 55246 01065 44788 68736 02104
11-1-2014	2300	17540	55246 01065 44788 68736 02104 04113
12-1-2014	0500	5855	04114 55247 01066 17721 68737 04114
12-1-2014	0506	5855	i.p.
12-1-2014	0600	11435	04114 55247 01066 17721 68737 04114
12-1-2014	1607	11435	04114 55247 01066 19721 68737 02105
12-1-2014	1658	11530	04114 55247 01066 19721 68737 02105
12-1-2014	1758	11635	04114 55247 01066 19721 68737 02105
12-1-2014	2059	11635	04114 55247 01066 19721 68737 02105
12-1-2014	2206	10715	04114 55247 01066 19721 68737 02105
12-1-2014	2300	11530	04114 55247 01066 19721 68737 02105
13-1-2014	0800	9065	Spanish numbers
13-1-2014	1611	11435	04115 53441 22061 19722 83151 32105
13-1-2014	1700	11530	The RDFT signals could be heard but no voice. At 1718 briefly a Radio Havana broadcast then off.
13-1-2014	2203	10715	04115 53441 22061 19722 83151 32105 0
13-1-2014	2220	10715	i.p. 53441 22061 17722
13-1-2014	2259	11530	04115 53441 22061 19722 83151 32105
14-1-2014	1606	11435	04115 54441 22061 17722 83151 02106
14-1-2014	1702	11635	04115 54441 22061 17722 83151 02106
14-1-2014	2058	16180	04115 54441 22061 17722 83151 02106
14-1-2014	2106	11530	04115 54441 22061 17722 83151 02106
14-1-2014	2159	17480	04115 54441 22061 17722 83151 02106
14-1-2014	2300	17540	04115 53441 22061 17722 83151 02106

date	UTC	frequency	remarks
14-1-2014	2355	17540	in progress
15-1-2014	0500	5855	04115 53441 22061 17722 83131 02106
15-1-2014	1738	11530	04115 54441 22061 17722 83151 02106
15-1-2014	1800	11635	04115 54441 22061 17722 83151 02106
15-1-2014	2116	11635	Carrier on but no sigs. At 2119 UTC 04115 etc
15-1-2014	2230	10715	04115 54441 22061 17722 83151 02106
16-1-2014	0730	13435	04115 53441 22061 17722 83151 02106
16-1-2014	1423	8097	Cuban cut nbrs .
16-1-2014	1709	11530	81817 14855 81785 82461 65525 61073
16-1-2014	1810	11635	81817 14855 81785 82461 65525 61073
16-1-2014	2101	16180	81817 14855 81785 82461 65525 61073
16-1-2014	2200	17480	81817 14855 81785 82461 65525 61073
16-1-2014	2300	17540	81817 14855 81785 82461 65525 61073
17-1-2014	0500	5855	81817 14855 81785 82461 65525 61073
17-1-2014	0600	11435	81817 14855 81785 82461 65525 61073
17-1-2014	0700	9330	81817 14855 81785 82461 65525 61073
17-1-2014	1611	11435	81817 14855 81785 82461 65525 61073
17-1-2014	1700	11530	81817 14855 81785 82461 65525 61073
17-1-2014	1758	11635	81817 14855 81785 82461 65525 61073
17-1-2014	2128	11635	81817 14855 81785 82461 65525 61073
17-1-2014	2202	10715	81817 14855 81785 82461 65525 61073
17-1-2014	2259	11530	81817 14855 81785 82461 65525 61073
18-1-2014	1608	11435	81817 14855 81785 82461 65525 61073
18-1-2014	1659	11530	81817 14855 81785 82461 65525 61073
18-1-2014	1758	11635	81817 14855 81785 82461 65525 61073
18-1-2014	2101	16180	81817 14855 81785 82461 65525 61073
18-1-2014	2200	17480	81817 14855 81785 82461 65525 61073
18-1-2014	2317	17540	81817 14855 81785 82461 65525 61073
19-1-2014	1631	11435	81817 14855 81785 82461 65525 61073
19-1-2014	1659	11530	81817 14855 81785 82461 65525 61073
19-1-2014	1821	11635	81817 14855 81785 82461 65525 61073
19-1-2014	2058	11635	81817 14855 81785 82461 65525 61073
19-1-2014	2200	10715	81817 14855 81785 82461 65525 61073
19-1-2014	2238	10715	81817 14855 81785 82461 65525 61073
19-1-2014	2258	11530	81817 14855 81785 82461 65525 61073
20-1-2014	1607	11435	81817 etc
20-1-2014	1803	11530	81817 etc. Still sending on this freq at 1803
20-1-2014	1826	11635	81817 etc. Now on correct freq
20-1-2014	2101	11635	81817 etc
20-1-2014	2158	19715	81817 etc
20-1-2014	2301	11530	81817 etc
21-1-2014	1606	11435	81817 14855 81785 82461 65525 61073
21-1-2014	1701	11530	81817 14855 81785 82461 65525 61073
21-1-2014	1802	11635	81817 14855 81785 82461 65525 61073
21-1-2014	2101	16180	81817 14855 81785 82461 65525 61073
21-1-2014	2200	17480	81817 14855 81785 82461 65525 61073
21-1-2014	2331	17540	81817 14855 81785 82461 65525 61073
22-1-2014	0500	5855	81817 14855 81785 82461 65525 61073
22-1-2014	1018	5855	81817 14855 81785 82461 65525 61073 //9155 kHz
22-1-2014	1018	9155	81817 14855 81785 82461 65525 61073 //5855 kHz
22-1-2014	1603	11435	81818 14856 60471 82462 65526 61074. A new group appears as the 3rd group and the other

date	UTC	frequency	remarks
			5 groups show the increase of one in the 5th digit.
22-1-2014	1703	11530	81818 14856 60471 82462 65526 61074 81818
22-1-2014	1801	11635	81818 14856 60471 82462 65526 61074 81818
22-1-2014	2101	11635	81818 14856 60471 82462 65526 61074 81818
22-1-2014	2201	10715	81818 14856 60471 82462 65526 61074 81818
22-1-2014	2301	11530	81818 14856 60471 82462 65526 61074 81818
23-1-2014	1602	11435	81871 (new group) 14857 60472 82463 65527 61075
23-1-2014	1701	11530	81871 14857 60472 82463 65527 61075
23-1-2014	2003	11635	81871 14857 60472 82463 65527 61075
23-1-2014	2101	16180	81871 14857 60472 82463 65527 61075
23-1-2014	2256	17540	81871 14857 60472 82463 65527 61075
23-1-2014	2300	17540	81871 14857 60472 82463 65527 61075
24-1-2014	2300	11530	61051 16207 14658 50532 73475 13126
24-1-2014	0500	5855	81871 14857 60472 82463 65527 61075
24-1-2014	0746	8330	i.p.
24-1-2014	1603	11435	61051 16207 14658 50532 73475 13126
24-1-2014	1732	11530	61051 16207 14658 50532 73475 13126. Should be on 11635.
24-1-2014	1900	11565	
24-1-2014	1926	11635	61051 16207 14658 50532 73475 13126
24-1-2014	2201	10715	61051 16207 14658 50532 73475 13126 61051
24-1-2014	2301	11530	61051 16207 14658 50532 73475 13126 61051
25-1-2014	0500	14375	
25-1-2014	0500	5855	61051 16207 14658 50532 73475 13126
25-1-2014	0600	14375	
25-1-2014	0600	11435	61051 16207 14658 50532 73475 13126
25-1-2014	0731	13435	61051 etc
25-1-2014	0800	9065	61051 etc
25-1-2014	0900	9240	61051 etc
25-1-2014	1607	11435	61051 etc
25-1-2014	1702	11530	61051 etc
25-1-2014	1800	11635	
25-1-2014	1800	11635	61051 etc
25-1-2014	2100	16180	61051 etc
25-1-2014	2225	17480	61051 etc
25-1-2014	2302	17540	61051 etc
26-1-2014	1603	11435	61051 16207 14658 50532 73475 13126
26-1-2014	1700	11530	61051 16207 14658 50532 73475 13126
26-1-2014	1809	11635	61051 16207 14658 50532 73475 13126
26-1-2014	2102	11635	61051 16207 14658 50532 73475 13126
26-1-2014	2200	10715	61051 16207 14658 50532 73475 13126
26-1-2014	2301	11530	61051 16207 14658 50532 73475 13126
26-1-2014	0509	5855	in progress
26-1-2014	0848	9065	i.p.
26-1-2014	2300	11530	61051 16207 14658 50532 73475 13126
27-1-2014	0500	5855	No HM01 but Radio Habana on this freq
27-1-2014	0517	5855	i.p.14658 50532
27-1-2014	0600	11435	61051 16207 14658 50532 73475 13126
27-1-2014	0700	9330	61051 16207 14658 50532 73475 13126
27-1-2014	1020	9155	i.p.
27-1-2014	1610	11435	61051 16207 14658 50532 73475 13126
27-1-2014	1701	11530	61051 16207 14658 50532 73475 13126

date	UTC	frequency	remarks
27-1-2014	2112	11635	61051 16207 14658 50532 73475 13126
27-1-2014	2201	10715	61051 16207 14658 50532 73475 13126
27-1-2014	2300	11530	61051 16207 14658 50532 73475 13126
28-1-2014	1732	11530	61051 16207 14658 50532 73474 13126
28-1-2014	1800	11635	61051 16207 14658 50532 73474 13126
28-1-2014	2101	16180	61051 16207 14658 50532 73474 13126
28-1-2014	2200	17480	61051 16207 14658 50532 73474 13126
28-1-2014	2220	17480	i.p.
28-1-2014	2258	17540	61051 16207 14658 50532 73474 13126
28-1-2014	2300	17540	61051 16207 14658 50532 73475 13126
30-1-2014	1639	11435	61052 16208 63601 50533 73476 13127
30-1-2014	1702	11530	61052 16208 63601 50533 73476 13127
30-1-2014	1801	11635	61052 16208 63601 50533 73476 13127
30-1-2014	2107	16180	61052 16208 63601 50533 73476 13127
30-1-2014	2200	17480	61052 16208 63601 50533 73476 13127
30-1-2014	2300	17540	61052 16208 63601 50533 73476 13127
31-1-2014	0800	5855	83381 22571 15441 50182 08444 51835
31-1-2014	0700	9330	Started with V02a "Atencion 50412 63731 76261" then "50412" (6x), then non-repeating 5 figure groups, ending in mid group at 0703 followed by RDFT. Then: 83381 22571 15441 50182 08444 51835 alternating these numbers with RDFT data.

M42 & X06

Russian Government & Intelligence

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

6857 kHz, 07-01, 0715 UTC:
RYRYRYRYYRYRYRYRYRYRYRRRRRYRRYYRYRYRYRYRYRY
102 100 7 0801 8638 =
54238 76286 28197 52796 98360 .3335 35141 63658 47281 54251
50551 15577 74560 07451 04989 53235 52694 75119 57066 11348
95709 05481 26231 12685 74487 60094 58438 70870 58480 10673
72655 87507 57062 82576 71341 11233 17854 96027 69675 61279
95228 11336 .2307 27796 91756 40017 06735 37010 13575 14827 =50=
10035 95503 77181 43055 50685 69880 06656 98704 89713 74086
62615 62511 81260 19220 44654 14400 98161 01465 38639 76291
80610 64897 40904 20262 93966 55546 37153 41081 22325 15360
51331 37556 55076 25256 99346 71735 35148 12572 69896 13636
52633 72258 60964 86388 28527 56523 13580 98120 22215 30008 =100=
.0818 K
Confirmed in CW with
CFM NIL K CFM NIL K CFM NIL K CFM NIL K SK

The station using =50= and =100= separators is also using these frequencies:
3884, 4032, 4819, 5424, 5461, 5751, 5845, 6772, 6773, 6776, 6785, 6838, 7512, 8058, 8067, 9043, 9072, 9201, 9206, 9234, 9296, 9964, 10874, 14907 kHz.

The source for these transmissions is usually listed as "Russian Gov/Intel". Speculations from others on this list suggest that it is from border guards or similar paramilitary units (comments by Trond)

14880 kHz, 09-01, 0230 UTC, FSK 200/1000
Link ID 13366 Msg Number 000 Msg Type 13366 Group Count 0   16384 00000 00000 01852 15371 03468 00000 14382
Link ID 41272 Msg Number 005 Msg Type 16363 Group Count 255   36881 16279 08114 31118 21686 00511 33098 31088
Link ID 37665 Msg Number 243 Msg Type 08138 Group Count 173   33339 29603 12885 21192 55243 62366 01024 42506
Link ID 28451 Msg Number 073 Msg Type 38919 Group Count 90   31790 63502 28796 49327 48992 16079 06143 59159
Link ID 41008 Msg Number 000 Msg Type 07145 Group Count 245   32768 08087 07984 22926 21686 00511 33098 31088
Link ID 14755 Msg Number 084 Msg Type 17387 Group Count 78   00459 09600 11986 33869 26350 44967 51934 37386
Link ID 41018 Msg Number 005 Msg Type 07145 Group Count 245   32768 08087 08114 22926 24246 00511 33098 31088
Link ID 41018 Msg Number 005 Msg Type 07145 Group Count 247   32768 08087 08114 22926 21687 00511 33102 31089
Link ID 29977 Msg Number 188 Msg Type 38919 Group Count 90   31791 63631 12350 43735 55224 40807 33663 64395
Link ID 41018 Msg Number 005 Msg Type 07145 Group Count 245   32768 08087 08114 22926 21686 00511 33098 31600
Link ID 41018 Msg Number 005 Msg Type 07145 Group Count 245   32768 08087 08114 22926 21686 00511 33098 31088

16320 kHz, 10-01, 0150 UTC, FSK 200/1000
Link ID 55042 Msg Number 105 Msg Type 26908 Group Count 219   07938 24118 28932 06952 52143 08695 44527 47994
Link ID 41018 Msg Number 010 Msg Type 07145 Group Count 245   49152 41425 03126 26146 21636 02563 09241 00549

14880 kHz, 10-01, 0230 UTC, FSK 200/1000
Link ID 26732 Msg Number 000 Msg Type 13366 Group Count 0   16384 00000 00000 03688 11267 03072 00000 28684
Link ID 40986 Msg Number 010 Msg Type 07145 Group Count 245   32768 41425 11318 26114 21526 00131 25657 01700
Link ID 40850 Msg Number 233 Msg Type 26716 Group Count 219   06018 06719 29956 06952 02479 08631 44543 39800
Link ID 01323 Msg Number 055 Msg Type 12007 Group Count 181   03977 00000 16416 00217 33109 03833 00665 03149
Link ID 59642 Msg Number 194 Msg Type 18728 Group Count 8   02896 28801 01142 24169 41152 51329 53264 28977

16320 kHz, 13-01, 0150 UTC, FSK 200/1000
Link ID 41087 Msg Number 031 Msg Type 07145 Group Count 245   32768 24065 63486 08113 30973 03455 28667 65295
Link ID 32803 Msg Number 049 Msg Type 11296 Group Count 237   39016 30467 58769 31981 24332 48034 64052 06081
Link ID 02422 Msg Number 007 Msg Type 06109 Group Count 2   03147 35619 02125 30304 06284 00204 32841 00103
Link ID 41018 Msg Number 015 Msg Type 08128 Group Count 255   36880 65281 46038 07585 23734 01082 12281 24077

14880 kHz, 13-01, 0230 UTC, FSK 200/1000
Link ID 13366 Msg Number 000 Msg Type 13366 Group Count 0   00000 00000 00000 01165 00256 00000 00000 55500
Link ID 13366 Msg Number 000 Msg Type 13366 Group Count 0   00000 00000 00000 01165 00288 00000 00000 56012
Link ID 41018 Msg Number 014 Msg Type 07145 Group Count 245   32768 24065 46032 07584 00109 02421 02019 03339
Link ID 61567 Msg Number 030 Msg Type 07145 Group Count 245   32768 24065 63484 16370 43117 02421 18403 44299
Link ID 35891 Msg Number 211 Msg Type 06134 Group Count 55   56557 53145 03118 13116 01478 51814 49504 00049
Link ID 41018 Msg Number 015 Msg Type 07145 Group Count 245   32768 24065 46038 07585 21686 01082 11257 24077
Link ID 41018 Msg Number 015 Msg Type 07147 Group Count 245   32772 24067 46038 07585 21686 01082 11257 24077
Link ID 41023 Msg Number 015 Msg Type 06633 Group Count 117   32768 03585 46078 07667 64694 01082 27641 65037
Link ID 41018 Msg Number 015 Msg Type 07145 Group Count 245   32768 24065 46038 07585 23807 03455 12283 65295
Link ID 32826 Msg Number 015 Msg Type 07145 Group Count 245   32768 24065 62422 07585 20662 00058 09209 24077

16320 kHz, 14-01, 0150 UTC, FSK 200/1000
Link ID 61502 Msg Number 021 Msg Type 07145 Group Count 245   32768 26024 34584 26900 01206 01932 01351 20773
Link ID 00880 Msg Number 241 Msg Type 04342 Group Count 143   24013 18168 21682 16757 31961 18072 04960 32935

14880 kHz, 14-01, 0230 UTC, FSK 200/1000
Link ID 05183 Msg Number 096 Msg Type 13366 Group Count 0   54115 00000 00000 01915 13313 00015 00000 00261
Link ID 41018 Msg Number 020 Msg Type 07145 Group Count 245   32768 26024 33561 26908 20662 01935 34119 00295
Link ID 35576 Msg Number 008 Msg Type 60465 Group Count 76   59023 00092 29547 26671 16997 46306 20326 28398
Link ID 00880 Msg Number 209 Msg Type 04436 Group Count 205   22093 45688 21407 17279 31817 17929 04896 34821
Link ID 41018 Msg Number 020 Msg Type 07145 Group Count 245   32768 26024 34585 26908 05302 01935 34119 20775

Link ID 37809 Msg Number 091 Msg Type 03268 Group Count 45   35351 49689 56220 38593 37884 13335 41407 37882
Link ID 40984 Msg Number 004 Msg Type 07145 Group Count 117   32768 09640 33537 26636 23702 03983 34119 22567
Link ID 41018 Msg Number 020 Msg Type 03049 Group Count 245   32768 26024 34585 26908 21686 01935 34119 61735

16320 kHz, 16-01, 0150 UTC, FSK 200/1000
Link ID 57573 Msg Number 074 Msg Type 48247 Group Count 241   41438 42160 64564 38309 08232 11184 24321 49801
Link ID 08433 Msg Number 238 Msg Type 09182 Group Count 60   11068 62179 03967 06711 37793 62823 54159 03080

14880 kHz, 16-01, 0230 UTC, FSK 200/1000
Link ID 40976 Msg Number 014 Msg Type 06505 Group Count 240   32768 24759 21549 08978 20662 02605 22140 16407
Link ID 45296 Msg Number 238 Msg Type 09182 Group Count 124   12084 63203 65399 06674 00937 62823 00652 19544
Link ID 62480 Msg Number 048 Msg Type 58783 Group Count 224   12396 39352 63250 20289 00968 39008 04464 50177
Link ID 00078 Msg Number 140 Msg Type 49746 Group Count 17   06296 03332 41708 04631 01401 32358 40504 33234
Link ID 41018 Msg Number 030 Msg Type 07147 Group Count 245   32784 26615 17597 09042 01046 00005 00572 00015
Link ID 14178 Msg Number 114 Msg Type 28352 Group Count 163   62215 20865 51792 30925 00431 02245 12743 63761
Link ID 62480 Msg Number 058 Msg Type 16527 Group Count 224   04140 00024 63258 20037 05064 16481 04597 16467

16320 kHz, 17-01, 0150 UTC, FSK 200/1000
Link ID 13876 Msg Number 000 Msg Type 14036 Group Count 4   24656 00000 00000 00057 14287 04014 00000 12784
Link ID 61498 Msg Number 035 Msg Type 07147 Group Count 247   32768 15355 01640 18354 21686 01621 25664 13200
Link ID 23020 Msg Number 143 Msg Type 43523 Group Count 30   55286 45488 53644 28051 29070 63529 61697 61846
Link ID 10996 Msg Number 214 Msg Type 44962 Group Count 255   61428 16160 32013 34063 03327 05833 00154 54150
Link ID 49296 Msg Number 145 Msg Type 07165 Group Count 245   33036 45565 00828 09061 10971 33698 14057 04940
Link ID 32382 Msg Number 046 Msg Type 45032 Group Count 206   22089 31168 46916 32030 13767 02156 10267 57039
Link ID 41018 Msg Number 035 Msg Type 07145 Group Count 117   32768 14713 01128 22522 21686 01617 25667 13208

14880 kHz, 17-01, 0230 UTC, FSK 200/1000
Link ID 13876 Msg Number 000 Msg Type 13876 Group Count 0   24576 00000 00000 00057 14273 04014 00000 12624
Link ID 13876 Msg Number 000 Msg Type 13876 Group Count 0   24576 00000 00000 00057 14273 04014 00000 08528
Link ID 41018 Msg Number 035 Msg Type 07145 Group Count 245   32768 14713 01640 22522 21686 01621 25667 13208
Link ID 41018 Msg Number 035 Msg Type 07145 Group Count 245   32768 14713 01640 22522 21686 01621 09283 13208
Link ID 61498 Msg Number 035 Msg Type 32747 Group Count 255   36880 31739 01640 22522 21686 01621 24579 13208
Link ID 33675 Msg Number 109 Msg Type 00531 Group Count 56   00829 00000 34528 00704 54374 22392 00592 53160
Link ID 41086 Msg Number 103 Msg Type 07145 Group Count 245   32768 14713 01785 22526 64694 03668 58435 29456
Link ID 41018 Msg Number 033 Msg Type 07145 Group Count 245   32768 31097 01632 22512 05302 01621 25667 13208

16320 kHz, 20-01, 0150 UTC, FSK 200/1000
Link ID 13366 Msg Number 000 Msg Type 13366 Group Count 0   17248 00000 00000 00343 15371 03850 00000 48886
Link ID 13366 Msg Number 000 Msg Type 13942 Group Count 0   19296 00000 00000 00343 15371 03851 00000 48887
Link ID 13367 Msg Number 000 Msg Type 13366 Group Count 0   17248 00000 00000 00351 15371 03851 00000 48887
Link ID 13366 Msg Number 099 Msg Type 09270 Group Count 54   17251 25411 13876 27924 15371 16665 13760 32844
Link ID 61498 Msg Number 040 Msg Type 15339 Group Count 207   32785 20251 15430 27602 05310 02383 51630 18335
Link ID 41018 Msg Number 040 Msg Type 07147 Group Count 245   32784 32261 15430 27604 21687 02379 51758 18838
Link ID 41018 Msg Number 040 Msg Type 07145 Group Count 247   32768 32277 15430 27606 05142 02378 34862 16790
Link ID 00059 Msg Number 040 Msg Type 07136 Group Count 245   32768 30212 07246 27646 62655 04431 51758 51647
Link ID 57519 Msg Number 222 Msg Type 49767 Group Count 142   16622 52512 50059 11091 52220 42655 46847 16638
Link ID 52938 Msg Number 115 Msg Type 09707 Group Count 180   29794 08768 07260 26588 33788 30958 11475 51771
Link ID 53615 Msg Number 064 Msg Type 08163 Group Count 255   32785 64795 31132 50876 43373 04997 34140 33581
Link ID 41023 Msg Number 104 Msg Type 07041 Group Count 240   32768 30209 15583 27646 64950 06474 51758 51600
Link ID 61816 Msg Number 032 Msg Type 06379 Group Count 245   47121 61215 32070 61398 21686 02378 52782 18838

14880 kHz, 20-01, 0230 UTC, FSK 200/1000
Link ID 13374 Msg Number 103 Msg Type 13366 Group Count 54   17251 25411 13948 27964 31755 49465 30657 36940
Link ID 41016 Msg Number 032 Msg Type 07147 Group Count 245   32769 32261 15426 27586 00190 00079 18478 00146
Link ID 41018 Msg Number 040 Msg Type 07145 Group Count 245   32768 32261 15430 27606 21686 02378 51758 18838
Link ID 41018 Msg Number 040 Msg Type 07145 Group Count 245   32768 32261 15430 27606 21686 02378 51758 18838
Link ID 41018 Msg Number 040 Msg Type 07145 Group Count 245   32768 32261 15430 27606 05156 00256 49164 16644
Link ID 41018 Msg Number 040 Msg Type 07145 Group Count 245   32768 32261 15430 27606 21686 02378 51758 18838
Link ID 41018 Msg Number 040 Msg Type 07145 Group Count 245   32768 32261 15430 27606 23990 02890 52750 18710

16320 kHz, 23-01, 0150 UTC, FSK 200/1000

Link ID 31840 Msg Number 000 Msg Type 10864 Group Count 0   00000 00000 00000 00098 04019 03660 00000 25504
Link ID 40972 Msg Number 048 Msg Type 05105 Group Count 213   32768 07666 10342 11645 62518 02080 63242 09932
Link ID 61660 Msg Number 252 Msg Type 10241 Group Count 71   33356 49383 35719 30768 00036 32801 07075 44767

14880 kHz, 23-01, 0230 UTC, FSK 200/1000

Link ID 13876 Msg Number 000 Msg Type 13876 Group Count 0   24576 00000 00001 00059 30355 00588 00000 25504
Link ID 41018 Msg Number 055 Msg Type 07145 Group Count 245   32768 32242 08290 09588 20671 00108 46861 00710
Link ID 62392 Msg Number 248 Msg Type 10257 Group Count 69   33356 49831 00901 08228 41508 34091 07074 43742
Link ID 20580 Msg Number 110 Msg Type 05824 Group Count 171   00001 31605 16836 19160 43509 04289 28181 17801
Link ID 41018 Msg Number 055 Msg Type 06633 Group Count 245   32768 28146 10338 11620 21686 02152 46858 08908
Link ID 41018 Msg Number 055 Msg Type 07144 Group Count 245   32768 32242 10338 11620 21942 02152 46858 08908
Link ID 61915 Msg Number 048 Msg Type 29159 Group Count 29   39686 04851 03283 07242 36875 34847 51099 12539
Link ID 41008 Msg Number 049 Msg Type 07145 Group Count 245   32768 15858 10336 11616 01206 02152 05898 08908
Link ID 53193 Msg Number 130 Msg Type 16362 Group Count 71   37529 00000 64768 08163 43886 64340 02220 17020

16320 kHz, 24-01, 0150 UTC, FSK 200/1000

Link ID 61499 Msg Number 060 Msg Type 03008 Group Count 95   32817 49655 62844 12176 64895 06095 64508 58607
Link ID 29822 Msg Number 060 Msg Type 07104 Group Count 245   32768 57523 63292 28544 23591 02895 54614 27253

14880 kHz, 24-01, 0230 UTC, FSK 200/1000

Link ID 13374 Msg Number 000 Msg Type 13362 Group Count 0   00000 00000 00000 01165 00296 00000 00000 56012
Link ID 00000 Msg Number 000 Msg Type 00000 Group Count 0   00000 00000 00000 02810 00000 00000 00000 37123
Link ID 29750 Msg Number 000 Msg Type 13622 Group Count 0   00000 00000 00000 01165 00288 00000 00000 56012
Link ID 12310 Msg Number 000 Msg Type 05174 Group Count 0   00000 00000 00000 00013 00296 00000 00000 56012
Link ID 00000 Msg Number 000 Msg Type 00000 Group Count 0   00000 00000 00000 00250 00000 00000 00000 36867
Link ID 00000 Msg Number 000 Msg Type 00000 Group Count 0   00000 00000 00000 02810 00000 00000 00000 37123
Link ID 00000 Msg Number 000 Msg Type 00000 Group Count 0   00000 00000 00016 02810 00000 00000 00000 37121
Link ID 00000 Msg Number 000 Msg Type 00000 Group Count 0   00000 00000 00000 02810 00000 00000 00000 37123
Link ID 00000 Msg Number 000 Msg Type 32768 Group Count 0   28672 00000 00000 02810 00000 00000 00000 37123
Link ID 00000 Msg Number 000 Msg Type 00000 Group Count 0   00000 00000 00000 02810 00000 00000 00000 37123
Link ID 00000 Msg Number 000 Msg Type 00000 Group Count 0   00000 00000 00000 02810 00000 00000 00000 04867
Link ID 00000 Msg Number 000 Msg Type 00000 Group Count 0   00000 00000 00000 02810 00000 00000 00000 37123
Link ID 00000 Msg Number 000 Msg Type 00000 Group Count 0   00000 00000 00272 03824 00000 00000 00000 33282
Link ID 00000 Msg Number 000 Msg Type 00000 Group Count 0   00000 00000 00000 02800 00000 00000 00000 37123
Link ID 00000 Msg Number 000 Msg Type 00000 Group Count 0   00000 00000 00000 02810 00128 00000 00000 37121
Link ID 00000 Msg Number 000 Msg Type 00000 Group Count 0   00000 00000 00000 02810 00000 00000 00000 37123
Link ID 00000 Msg Number 000 Msg Type 00000 Group Count 0   00000 00000 00000 02810 00000 00000 00000 37123
Link ID 00000 Msg Number 000 Msg Type 00000 Group Count 0   00000 00000 00000 02810 00000 00000 00000 37123
Link ID 00000 Msg Number 000 Msg Type 00000 Group Count 0   00000 00000 00000 02810 00000 00000 00000 37121
Link ID 00127 Msg Number 127 Msg Type 00002 Group Count 0   00000 00000 04095 01791 65535 65535 65535 65535
Link ID 24634 Msg Number 060 Msg Type 07104 Group Count 245   32768 57523 54572 12160 23591 02927 54622 27383
Link ID 08250 Msg Number 060 Msg Type 07104 Group Count 245   32768 57521 54572 12160 03623 03951 21854 30967
Link ID 24634 Msg Number 060 Msg Type 07104 Group Count 245   32768 57489 54572 12160 23879 03855 57110 28405
Link ID 24634 Msg Number 060 Msg Type 08128 Group Count 245   32768 57523 54572 12160 23591 02927 54614 27381
Link ID 43119 Msg Number 231 Msg Type 56908 Group Count 172   49552 57155 33136 36291 35340 53514 34925 12450
Link ID 24634 Msg Number 060 Msg Type 07104 Group Count 245   32768 57523 57148 12160 23591 02927 54614 27381

16320 kHz, 27-01, 0150 UTC, FSK 200/1000

Link ID 16740 Msg Number 146 Msg Type 07938 Group Count 246   36881 50447 00976 03664 10486 00889 43879 20440
Link ID 41000 Msg Number 001 Msg Type 06921 Group Count 244   32769 50689 33092 00384 21694 00313 24423 11096

14880 kHz, 27-01, 0230 UTC, FSK 200/1000

Link ID 13366 Msg Number 096 Msg Type 13366 Group Count 0   17251 00000 00000 01915 15371 02351 00000 11141
Link ID 13366 Msg Number 096 Msg Type 13334 Group Count 0   17251 00000 00000 01915 15371 02351 02048 11013
Link ID 13366 Msg Number 096 Msg Type 15478 Group Count 0   17379 00000 00000 01915 15371 02351 00000 11141
Link ID 41018 Msg Number 065 Msg Type 07145 Group Count 246   32769 50695 33252 04000 21686 00313 23911 11096
Link ID 41016 Msg Number 065 Msg Type 07147 Group Count 246   32771 50719 33252 04000 21638 00313 23911 11096
Link ID 40986 Msg Number 001 Msg Type 07145 Group Count 246   32771 50695 33092 03872 21686 00313 24423 11096
Link ID 16740 Msg Number 144 Msg Type 16320 Group Count 254   32769 56335 00976 03664 40996 00288 02368 00768

Link ID 62783 Msg Number 026 Msg Type 24580 Group Count 132   00255 58339 25017 10696 25322 28510 06356 23828
Link ID 40238 Msg Number 020 Msg Type 49354 Group Count 159   52750 62068 07224 32658 50035 29006 11474 40849

16320 kHz, 28-01, 0150 UTC, FSK 200/1000
Link ID 53016 Msg Number 010 Msg Type 24105 Group Count 91   62383 61435 12581 15889 17963 39302 64349 33444
Link ID 50444 Msg Number 165 Msg Type 24201 Group Count 217   29695 61177 36898 12042 41870 18063 65039 56675

14880 kHz, 28-01, 0230 UTC, FSK 200/1000
Link ID 16740 Msg Number 156 Msg Type 07146 Group Count 245   32771 55963 34781 16600 43132 05635 39391 02895
Link ID 41338 Msg Number 070 Msg Type 07145 Group Count 245   32769 55941 50150 26860 21654 00897 50282 36010
Link ID 41018 Msg Number 070 Msg Type 07145: Group Count 245   32769 55941 50150 26860 20662 00769 50282 36266
Link ID 41018 Msg Number 070 Msg Type 07145 Group Count 245   32769 55941 50151 26860 21686 01921 50285 36266
Link ID 26201 Msg Number 063 Msg Type 44466 Group Count 156   07867 33284 05837 25776 03557 55586 25247 46981
Link ID 29631 Msg Number 216 Msg Type 01498 Group Count 79   61355 26677 30717 24383 38616 11504 24516 04568
Link ID 49466 Msg Number 070 Msg Type 04800 Group Count 241   00019 36875 33766 51436 21686 00897 50282 36266
Link ID 57402 Msg Number 070 Msg Type 40937 Group Count 245   49153 64133 50150 26732 21680 00897 50282 36234

16320 kHz, 29-01, 0150 UTC, FSK 200/1000
Link ID 13428 Msg Number 000 Msg Type 13366 Group Count 0   00000 00000 00000 01820 12303 03468 00003 14447

14880 kHz, 29-01, 0230 UTC, FSK 200/1000
Link ID 13873 Msg Number 000 Msg Type 13873 Group Count 0   24576 00000 00000 01793 14848 03846 00000 37952
Link ID 41018 Msg Number 075 Msg Type 07145 Group Count 245   32769 54784 13414 26271 21687 02384 23992 02284
 Link ID 41018 Msg Number 075 Msg Type 07145 Group Count 245   32769 54784 13414 26271 20498 00000 23704 02252
Link ID 41018 Msg Number 203 Msg Type 07145 Group Count 245   32769 54784 13414 26271 30327 36304 32756 36070
Link ID 41018 Msg Number 075 Msg Type 07145 Group Count 117   32785 54784 13414 26271 21558 00080 23736 02252
Link ID 05649 Msg Number 137 Msg Type 18352 Group Count 186   55712 54784 05959 00393 10810 33728 13418 42046
16320 kHz, 30-01, 0150 UTC, FSK 200/1000
Link ID 07550 Msg Number 095 Msg Type 01614 Group Count 83   23303 39734 22537 34504 00906 04709 15386 46371
Link ID 49135 Msg Number 029 Msg Type 08585 Group Count 173   14399 11312 16248 30719 49512 58995 01800 07822

14880 kHz, 30-01, 0230 UTC, FSK 200/1000
Link ID 41018 Msg Number 080 Msg Type 07145 Group Count 245   32769 42149 49574 05038 21686 00758 62437 53536
Link ID 06647 Msg Number 145 Msg Type 30849 Group Count 90   47586 14241 59139 38817 37094 53524 06402 59374
Link ID 41022 Msg Number 240 Msg Type 07145 Group Count 245   32769 42149 49655 05118 64702 05886 63471 61792
Link ID 00019 Msg Number 007 Msg Type 13015 Group Count 128   04114 18320 32832 00343 21487 10127 06159 35542
Link ID 41018 Msg Number 016 Msg Type 06921 Group Count 240   32769 40997 49574 05038 22678 00230 61925 61472
Link ID 41018 Msg Number 080 Msg Type 07145 Group Count 245   32769 42149 16800 00942 21686 00742 62437 53536
Link ID 41018 Msg Number 064 Msg Type 07017 Group Count 245   32769 44549 49540 04910 05270 00740 62437 53536
Link ID 41018 Msg Number 080 Msg Type 07145 Group Count 245   32769 42157 49575 05038 64694 05830 63429 61696
Link ID 24873 Msg Number 121 Msg Type 13287 Group Count 77   45365 09385 03390 18634 51935 14497 30611 20008

16320 kHz, 31-01, 0150 UTC, FSK 200/1000
Link ID 01150 Msg Number 064 Msg Type 01072 Group Count 0   17248 00000 00000 00343 46091 03339 16384 36375
Link ID 31518 Msg Number 176 Msg Type 41361 Group Count 154   05680 51012 44629 40500 51599 37134 49173 12365
Link ID 40986 Msg Number 081 Msg Type 07105 Group Count 245   32769 35592 32768 30026 21686 00384 24604 49422
Link ID 61469 Msg Number 160 Msg Type 07145 Group Count 245   32769 35208 32908 29223 10963 33218 06150 24711
Link ID 08318 Msg Number 245 Msg Type 04585 Group Count 116   32768 32904 32792 32762 21686 00901 57372 53518

14880 kHz, 31-01, 0230 UTC, FSK 200/1000
Link ID 57093 Msg Number 118 Msg Type 45604 Group Count 255   48281 35120 50356 08393 03195 41690 52189 09304
Link ID 09848 Msg Number 133 Msg Type 33994 Group Count 64   19653 00770 50198 37093 07412 43798 17902 65448
Link ID 03776 Msg Number 173 Msg Type 19188 Group Count 72   32940 45200 07756 08256 64528 32804 25347 04288
Link ID 40968 Msg Number 001 Msg Type 07145 Group Count 240   32769 35208 32776 08266 04260 00896 24588 49422
Link ID 32826 Msg Number 085 Msg Type 07145 Group Count 245   36865 35208 32776 30170 21686 00900 24604 53518
Link ID 22530 Msg Number 059 Msg Type 21152 Group Count 130   19206 27777 48032 05971 62480 22832 43168 54384
Link ID 41018 Msg Number 085 Msg Type 07145 Group Count 245   32769 35208 32776 30170 01078 00900 24604 53518
Link ID 22530 Msg Number 123 Msg Type 21017 Group Count 130   19238 27809 48032 06099 62484 23868 43305 54384

16320 kHz, 14-01, 0150 UTC, FSK 200/1000   Complete message

Block No 9
7d,12,b0,e6,01,3f,fd,51,a5,67,7e,f7,17,32,f7,f3,40,09,ec,f6,af,2a,78,06,80,56,de,01,a7,6d,d2,d7,ce,ef,1c,74
Block No 12
7d,1a,b0,e6,01,8f,0a,cf,94,1d,c1,75,0f,33,be,98,46,6d,7f,5c,21,e8,e8,4a,7c,fc,68,79,b5,cd,eb,a6,4d,e8,ff,f7
Block No 18
7d,12,b0,e6,02,4b,2b,c0,30,dd,40,72,53,7f,a0,d8,4c,83,c4,1e,fc,6c,de,74,c0,20,4a,c0,30,2b,7b,79,65,fb,52,41
Block No 28
7d,12,b0,f6,03,91,89,60,95,57,e7,1a,ae,a2,58,4e,55,f5,f7,fe,bd,f7,3e,1e,ff,50,9d,cb,b7,77,3e,89,43,91,fb,f3
Block No 176
7d,12,b0,e6,16,18,00,01,40,00,80,50,10,00,00,00,00,04,20,05,00,03,00,04,50,07,60,0d,00,0f,90,08,30,06,20,1c
Block No 0 : Total Message Size 1 blocks : This transmission contains 0
messages.
7d,12,b0,e6,00,00,00,00,00,00,00,00,00,00,06,40,00,00,00,00,00,00,00,04,00,40,00,00,00,00,00,00,00,10,01,00,00
Block No 3
7d,12,b0,e6,00,75,b4,83,83,5a,7f,00,28,63,61,d2,7d,e2,00,06,61,16,e2,c6,02,4f,d8,cb,be,4b,1f,7c,ff,f9,10,8d
Block No 2
7d,12,b8,e6,00,4b,88,d9,ff,89,1a,7f,e1,f1,9c,11,00,c4,e5,f9,a6,90,c6,4f,92,c4,d9,16,40,e0,7d,67,36,02,4c,16
Block No 25
7d,12,b0,ee,03,3f,fd,50,e5,f7,ff,ff,9f,b0,33,f1,21,84,f6,7b,ff,95,3c,03,c7,fb,6f,20,53,b6,e9,79,2a,f7,8e,3e
Block No 15
75,12,b0,e6,01,e9,5e,ff,e8,14,0f,db,03,c6,98,32,5a,51,2b,f5,bc,55,e1,43,e8,86,40,02,04,fe,05,df,21,f4,87,84
Block No 22
6d,12,b0,e6,02,d2,00,cd,80,e8,1a,16,2f,ff,f0,74,63,bf,e7,f4,1f,27,b0,7f,1f,3f,f7,e6,ff,fd,0c,1c,d0,90,35,cd
Block No 29
7d,12,b0,e6,03,a2,d6,07,84,21,51,81,c1,11,34,06,2c,69,18,2f,60,eb,ab,20,31,38,be,f1,8d,8f,44,90,c7,e8,a1,54
Block No 26
7d,12,b0,e6,03,44,3d,04,81,3e,a4,8f,b1,b6,65,ff,27,bc,f7,48,be,60,02,63,a6,e4,03,fb,fe,7a,cb,d1,f1,1f,9f,4e
Block No 31
7d,12,b0,e6,03,f7,18,02,ba,fb,30,02,1b,a6,e4,08,11,15,e8,78,8e,ab,8d,73,d4,f7,11,c3,f7,07,01,62,f6,10,f8,39
Block No 2
3d,12,b0,e6,00,55,97,cf,83,8c,ff,6f,f9,c6,41,96,ff,6c,01,e4,02,04,85,88,04,9f,b1,97,7d,be,14,38,bc,52,fd,9c
Block No 7
7d,12,b0,e6,00,ff,be,d9,49,05,83,20,80,d0,8c,17,7e,e2,72,f4,d3,48,eb,27,c8,62,6c,9a,e7,f4,3f,f3,3f,0b,6e,3f
Block No 9
7d,12,a0,e6,01,2d,15,cb,14,f6,f4,1f,4f,58,0e,7c,38,32,7d,97,01,ef,70,10,80,30,49,6a,99,07,ff,b6,57,16,ca,82
Block No 12
7d,12,b0,e2,01,80,0a,47,9c,7d,c1,75,0f,73,fe,98,e6,6c,7f,5c,d0,ac,ca,c8,6c,34,40,39,b5,e5,6b,a6,dc,28,ca,ff
Block No 21
fd,12,b0,e6,02,b4,36,0b,18,7b,33,bf,85,03,f3,ef,c8,51,3a,05,44,81,35,8d,40,37,9c,ff,ee,08,f3,9c,e0,e2,3e,16
Block No 22
7d,12,b0,a6,02,d2,00,0d,81,60,3c,7e,1e,9f,f1,f4,25,93,d0,ea,0b,05,58,3c,06,89,d9,f1,5d,06,06,0e,68,5f,ba,a6
Block No 32
7c,12,b0,e6,04,18,20,00,40,01,80,00,b0,00,00,00,00,04,20,05,00,03,00,06,d0,07,60,0d,00,0d,90,08,f0,0e,00,08
Block No 33
7d,12,b0,e7,04,2b,30,34,9c,72,3f,ae,69,32,9c,f2,63,60,f3,04,fe,7f,40,fe,dd,d0,16,05,4d,55,9a,e6,d9,3e,07,ff
Block No 1 : Link ID 61502 : 14th of month : Msg Number 021 : Msg Type
07145 : Group Count (?) 245
32768 26024 34584 26900 01206 01932 01351 20773
7d,12,b0,e6,00,31,18,f6,b0,55,e0,ea,90,58,f8,86,0c,79,31,11,e5,84,00,05,47,51,b8,42,6c,75,d1,81,92,0d,54,23
Block No 3
7d,12,b0,e6,00,66,ee,00,cd,d8,79,d5,1f,90,0c,76,aa,78,f0,73,c8,bf,4a,42,24,10,6e,6e,52,6e,88,1d,08,49,da,77
Block No 1 : Link ID 00880 : Corrupt Date : Msg Number 241 : Msg Type
04342 : Group Count (?) 143
24013 18168 21682 16757 31961 18072 04960 32935
7d,12,b1,e6,00,21,15,84,0d,f6,fc,3f,6d,48,0e,54,38,41,7f,b7,01,25,74,18,c6,30,d9,6a,98,07,ff,92,5f,16,ca,ea
Block No 10
7d,12,b0,e7,01,43,34,ce,ce,a6,75,8e,4f,30,84,98,13,00,01,08,06,16,a3,9a,95,db,8f,04,fd,dd,e0,56,2f,c8,b4,74
Block No 4
7d,92,b0,e6,00,98,40,84,f7,71,e0,02,04,23,00,22,02,9b,fb,31,df,63,ee,2b,c3,3f,9f,74,33,f4,06,f3,f3,7e,6e,63

Block No 49
7d,12,b0,e6,06,3f,00,b0,e0,00,80,00,18,00,00,00,00,04,20,05,88,01,00,04,d0,07,60,1d,80,0f,90,08,b8,0e,20,0c
Block No 18
7d,12,b0,c6,02,43,2b,d4,20,df,60,73,79,ab,d2,7c,36,63,e2,0f,2a,14,25,3a,60,00,2f,60,08,15,0c,95,b2,fd,a9,20
Block No 26
79,12,b0,e6,03,5d,6e,08,cf,fd,c9,6e,26,94,ef,b3,21,ff,07,fe,0e,ee,d3,bc,61,cf,f2,01,66,3e,fe,e4,60,03,00,a7
Block No 27
7d,12,b0,e6,03,6e,90,02,81,99,db,07,7c,a1,c6,76,a0,24,57,ea,3f,9d,ce,4f,fd,dc,87,e0,2c,f0,ad,bc,ec,e1,fe,c6
Block No 20
7d,10,b0,e6,02,91,89,6c,9d,7a,ef,1b,7f,e0,58,44,55,f0,53,da,bd,f7,ae,1e,ff,f2,95,4b,b7,f7,3e,8b,6b,97,fb,e2
21:09:56 FSK200/1000 Sync Sequence Found
Block No 4
7d,12,b0,e6,00,99,00,0c,1b,7f,f9,f3,33,db,bc,30,51,c8,a3,87,84,37,dd,70,94,86,6d,8f,e8,20,70,ff,f6,be,18,f1
21:09:57 FSK200/1000 Sync Sequence Found
Block No 16
7d,12,b0,e6,02,1e,00,00,40,00,80,00,30,20,00,00,00,0c,60,0f,00,07,00,04,d0,0f,e0,9f,00,1f,b0,08,20,06,34,0e
Block No 21
7d,12,b0,e4,02,b1,00,46,63,e2,2a,d0,7a,c0,8e,58,9e,f8,31,5f,f8,0d,fe,3f,b9,cf,c2,bb,9d,98,6f,88,4a,ef,0f,06
Block No 26
7d,12,b0,e6,03,5c,64,03,c7,fd,cc,0e,27,ee,4f,f7,20,a8,17,df,0e,7f,c3,bc,63,c6,02,00,a2,3e,fe,c0,00,02,00,2f
Block No 31
7d,12,b0,e6,03,e6,86,07,84,21,57,81,43,b9,bc,e7,3c,00,00,2f,61,eb,af,20,30,38,be,f1,8c,85,40,05,c6,19,f0,a8
Block No 30
7d,12,b0,e6,03,c4,2d,04,b1,3e,a4,cf,f5,f6,64,f6,27,bd,f7,88,be,40,61,60,a5,84,03,e9,b2,70,4a,c8,f9,8d,df,4e
Block No 11
7d,12,b0,e6,01,73,1b,4a,ba,7b,00,42,13,a6,e7,b9,11,15,e8,79,fc,ef,89,62,c4,ef,e3,87,ff,06,11,48,f6,50,b0,32
Block No 7
7d,12,b0,e6,00,ff,fb,c7,87,00,23,21,70,e7,61,d2,7d,f7,1f,e6,41,16,ca,c4,02,4f,d8,cb,be,4b,0f,3c,5e,af,fe,cc
Block No 4
7d,12,b0,e6,00,99,19,3c,d1,37,f8,b1,11,e9,9c,5c,f9,c8,51,47,82,f7,dd,f0,d4,87,7f,83,f6,3f,f8,3e,d5,43,08,78
Block No 10
7d,12,b0,e6,01,43,7d,de,4e,a6,77,8a,0f,30,96,d9,1b,02,8a,8e,03,2b,51,cd,4b,e5,c7,02,7e,e2,20,2b,16,c4,52,22
Block No 15
7d,12,b0,e7,01,e9,96,bf,e8,26,0d,db,03,c0,98,32,52,11,2b,f5,bc,51,e2,c3,e8,0e,40,02,04,ec,8f,ff,63,ff,8f,8c
21:10:00 FSK200/1000 Sync Sequence Found
Block No 31
75,12,b0,e6,03,ff,1b,4a,ba,5b,30,c2,1f,e6,c3,f9,11,3d,e8,f9,f4,af,9b,e7,84,e6,a7,83,ad,47,11,48,e3,78,b8,3b
Block No 2
7d,12,b0,e6,00,55,bd,c7,83,86,ab,25,78,e3,61,d2,79,e4,07,a0,00,1c,62,c4,02,4f,d8,df,fe,df,1f,78,fb,8e,fd,9e
21:10:01 FSK200/1000 Sync Sequence Found
Block No 15
7d,12,b0,e6,01,fe,f3,f8,2c,3c,cd,b5,6e,80,1a,12,a6,1f,7c,f2,47,cc,d5,83,ca,76,9c,b7,3f,fe,1f,bc,7a,7f,f5,28
Block No 15
7d,12,b0,e6,01,e8,97,ff,f8,6c,0f,bf,07,c0,98,32,42,d2,44,e3,78,bb,c5,87,f1,9e,e0,06,1d,f9,8f,ff,01,fc,86,84
Block No 16
7d,12,b0,ee,02,0c,00,00,00,00,80,00,10,00,00,00,00,04,20,0d,00,03,00,04,f0,07,60,00,00,0f,90,08,b0,06,20,0c
Block No 29
7d,12,f0,e6,03,bc,44,12,00,77,33,bf,81,00,61,a7,c8,53,3a,8d,64,81,30,8d,74,77,90,b7,ee,08,f3,7c,e7,e6,2c,16
Block No 22
7d,12,b0,ee,02,c2,00,ef,c0,fc,1f,1f,05,6b,d8,3a,13,cd,f9,75,05,93,f8,3f,81,89,d9,f1,fe,7e,8e,0e,68,4b,3a,a7
Block No 0 : Total Message Size 76 blocks : This transmission contains 10
messages.
7d,1a,b0,e6,00,11,af,6e,95,5a,6f,02,ae,a2,78,00,45,f5,d3,ca,b5,86,0e,00,7f,f0,08,e1,91,09,1f,8f,ff,df,fd,00
Block No 51
7d,12,b0,ee,06,7e,d0,a0,7d,80,9d,e1,c1,b0,e3,40,ef,fb,ed,48,03,0d,83,03,38,4c,95,b3,76,9a,00,d9,b8,ac,72,06
Block No 0 : Total Message Size 37 blocks : This transmission contains one
message.
7d,12,b0,ee,00,00,00,00,00,40,06,80,00,10,00,00,00,00,04,20,07,80,03,00,04,90,07,e0,0d,02,0f,90,08,b0,02,20,0c
Block No 0 : Total Message Size 100 blocks : This transmission contains 3
messages.

7d,12,b0,e6,00,04,ee,00,c5,c8,79,dd,3f,dc,88,76,aa,40,e0,60,88,bf,cb,46,24,d4,6e,6e,42,6e,ac,7d,08,fb,9e,73
Block No 4
7d,32,b0,e6,00,80,4a,88,b0,a0,41,01,0a,c2,11,34,ff,2b,26,03,0e,67,fd,61,2b,97,96,c0,fe,11,e2,08,03,70,0a,ed
Block No 8
7d,12,b0,e2,01,16,ad,51,80,06,ec,af,3f,77,ff,f7,db,41,7c,fd,5e,7e,f8,06,8b,56,de,40,a7,6d,d2,d2,55,ef,1c,74
Block No 3
7d,12,b0,e6,00,69,97,ff,e8,24,1f,ff,03,c0,b8,32,42,51,3b,f4,ac,5f,e2,c3,fe,8e,00,02,0c,2c,85,df,21,f4,86,8c
Block No 18
fd,12,b0,e6,02,5f,00,00,00,00,80,00,00,00,00,00,04,20,05,00,03,00,04,f0,07,60,0d,00,0f,90,19,b0,06,20,0c
Block No 30
7d,12,b0,e6,03,dd,6e,0b,83,69,cd,5e,2f,bd,c0,26,41,5b,0e,ac,1c,fd,a7,78,c3,8f,64,03,fc,7d,ff,d9,84,07,07,4e
Block No 28
7d,12,90,e6,03,81,9b,7d,b4,7a,a7,39,6f,e6,d8,cc,ff,f7,f2,8d,ff,ff,7e,1a,ff,e1,bf,df,bf,ff,7f,b2,d7,2f,f6,c4
Block No 30
fd,12,b0,e6,03,c4,2d,04,b1,22,a4,c3,91,b6,64,f6,27,bd,f3,88,be,40,63,60,a6,e4,03,c1,bc,68,4c,c8,f1,8d,df,56
Block No 16
7d,12,b0,e7,02,00,00,20,00,00,80,00,10,00,00,00,00,04,20,05,00,03,84,04,d0,07,20,0d,00,0f,90,18,f0,06,20,0c

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14880 kHz, 14-01, 0230 UTC, FSK 200/1000   Complete message
Block No 0 : Total Message Size 1 blocks : This transmission contains one
message.
7d,12,b0,ee,00,00,00,00,00,00,00,00,10,00,00,00,00,0c,20,09,00,09,00,01,00,04,00,00,60,00,e0,0f,30,0f,f0,00
Block No 1 : Link ID 05183 : Corrupt Date : Msg Number 096 : Msg Type
13366 : Group Count (?) 0
54115 00000 00000 01915 13313 00015 00000 00261
7d,12,f0,e6,00,33,3d,00,43,00,36,00,63,00,14,00,43,07,36,07,f0,0b,30,00,40,01,00,00,1f,05,d2,0e,0d,00,04,02

Block No 0 : Total Message Size 5 blocks : This transmission contains one
message.
fd,12,b0,e6,00,00,00,00,00,00,80,00,10,00,00,00,00,04,20,07,80,03,00,04,d0,07,60,0d,00,0f,90,08,b0,06,20,04
Block No 1 : Link ID 41018 : 14th of month : Msg Number 020 : Msg Type
07145 : Group Count (?) 245
32768 26024 33561 26908 20662 01935 34119 00295
3d,12,b0,e6,00,33,18,f6,b0,55,e0,ea,90,58,a8,86,0c,39,31,11,a4,9c,50,80,07,51,b8,42,6f,77,d1,8b,93,01,54,23
Block No 0 : Total Message Size 70 blocks : This transmission contains 7
messages.
7d,12,b0,e6,00,00,b5,c7,83,86,ab,25,78,e3,61,d2,7d,e6,13,fe,41,16,e2,c4,00,4f,d8,db,9e,0b,0f,3c,0e,2d,7e,cf
Block No 7
7d,12,90,e6,00,e6,6e,00,81,90,71,aa,3f,a9,18,ed,54,f3,e1,cf,37,ff,bf,9c,d3,59,b9,99,49,ba,b1,f4,21,26,69,cd
Block No 4
7d,12,b0,e6,00,88,20,07,02,cb,f7,df,03,e1,5f,db,02,86,03,c6,8c,08,91,0c,00,0e,59,3e,10,e1,14,82,01,2b,35,fc
Block No 8
7d,12,b0,e6,01,16,ad,51,a5,63,3e,73,15,32,f7,f3,4b,49,fd,f6,af,3e,78,06,8b,56,de,40,a7,6d,d2,d2,55,ef,1c,70
Block No 0 : Total Message Size 11 blocks : This transmission contains 4
messages.
7d,12,b0,e6,00,00,00,03,16,d2,54,1f,4f,40,0e,54,38,3b,7d,97,01,ef,74,18,c6,10,49,6a,99,05,fd,92,5f,1e,ca,ea
Block No 11
7d,12,b0,e6,01,70,1a,6c,ca,d2,c1,21,43,89,b8,d8,10,12,10,8c,1b,d7,b7,a9,34,00,71,b7,87,fa,55,66,d2,e7,7d,00
Block No 13
7d,12,b0,e6,01,bc,60,e0,f7,71,e6,8e,05,e3,71,b1,2b,45,ff,88,67,92,eb,13,e1,9f,cf,aa,19,fa,ab,79,e8,9f,13,f2
Block No 14
7d,12,b0,e2,01,c8,31,14,3e,9e,66,da,b7,40,84,01,53,0f,be,7d,b7,e6,6a,d0,e5,3b,4e,5b,8e,f7,07,ce,3f,3f,fa,94
Block No 15
7d,12,b0,e6,01,e9,96,af,e8,26,0f,fb,03,c0,98,30,02,50,03,f5,bc,55,e0,c3,f8,8e,40,00,04,64,85,db,01,f0,02,84
Block No 16
7d,12,b0,e6,02,1f,00,00,40,00,00,00,18,00,00,00,00,00,00,01,00,03,00,06,f8,03,b0,0d,00,0f,90,08,b0,06,00,0c
Block No 17
7d,12,b0,e6,02,2d,b9,90,b9,29,12,0c,64,93,af,16,0e,55,7d,ee,7f,60,8d,cd,f6,8b,43,1a,28,a4,41,12,66,e9,aa,25
Block No 19

7d,12,b0,e6,02,78,9a,37,03,97,49,37,60,b2,cb,81,4f,5e,79,c8,19,53,7b,c6,0f,60,3f,3e,7c,5b,64,95,43,57,43,58
Block No 22
7d,12,f0,e6,02,d2,00,cd,80,a8,1a,1e,00,46,b0,74,25,9b,f2,ea,0b,27,f0,3d,0f,1b,fb,f3,fd,7e,86,0e,68,5f,7f,e6
Block No 24
7f,12,b0,e6,03,00,0e,dd,8d,26,27,fb,4e,05,4a,16,ec,c7,38,0d,0f,fe,ff,ff,fe,00,81,e7,90,04,88,ce,96,b3,c0,0e
Block No 25
7d,12,b0,e6,03,3b,86,60,e0,1c,a1,e1,49,46,4b,f3,4f,5d,07,fa,75,4e,7c,38,cf,5a,7c,d9,33,36,71,48,08,22,77,02
Block No 29
7d,12,b0,e6,03,a2,c6,07,84,21,57,81,43,b9,b4,84,04,00,00,07,21,ff,ef,20,31,38,be,f1,8c,0f,44,d4,c7,6d,f9,54
Block No 32
7d,12,30,e6,04,18,00,00,40,00,00,00,10,00,00,00,00,04,20,07,00,03,00,04,d0,07,20,05,00,0f,90,08,b0,06,20,0c
Block No 2
fd,12,b0,e6,00,4d,99,25,a5,2a,1d,3b,55,a0,05,c3,99,e7,e6,f2,3f,27,6d,dc,9c,40,cf,c7,03,e7,4f,67,8c,a3,ce,39

Block No 0 : Total Message Size 37 blocks : This transmission contains 0
messages.
7d,02,b0,e6,00,00,00,00,40,00,80,00,00,00,00,00,00,04,00,05,00,03,00,04,d0,07,60,05,00,0f,90,08,b0,06,20,0c
Block No 2
7d,12,b0,e6,00,5d,b5,c7,83,86,ab,25,f8,e3,61,d2,7d,e6,13,f6,41,12,63,c4,02,4f,d8,41,ff,67,8f,be,6f,56,bf,67
Block No 7
7d,12,b0,e6,00,ef,fe,c0,c5,c0,38,d5,1f,d4,8c,76,aa,3c,70,62,88,bf,4b,46,24,d6,6e,6e,52,6e,ac,7d,08,49,9a,73
Block No 4
7d,12,b0,e2,00,99,59,3c,f1,77,a8,b1,11,e9,9c,58,b1,c8,53,47,86,b7,dd,70,d4,86,7c,87,e4,15,f0,55,ab,96,10,f1
Block No 6
7d,12,b0,e6,00,cc,34,43,83,67,fb,a6,80,d0,af,49,83,86,00,e3,4e,8c,d9,ae,a9,42,2c,8f,08,71,9e,df,33,ff,9a,be
Block No 7
7d,12,b0,e6,00,ff,8c,d9,7d,8d,9b,3d,e0,d0,8c,17,54,e0,32,f4,d3,48,63,27,c9,62,6c,8a,65,f4,3f,f3,1b,01,02,01
Block No 9
7d,12,b0,e6,01,3f,15,cb,16,d2,54,17,4d,48,0e,54,38,33,7d,9f,01,ef,fc,39,ce,71,c0,00,12,0f,ff,00,1e,04,95,dc
Block No 10
7d,12,b0,66,01,43,34,ce,4f,e6,75,8a,04,20,9e,d0,1b,ab,49,8f,6b,0b,51,cd,4a,e5,c6,82,7e,ee,f0,00,06,c4,5a,22
Block No 11
7d,12,b0,e6,01,70,1a,6c,ca,d2,c1,a1,43,88,98,d9,32,b6,b5,9c,1b,d7,b7,a9,10,00,f1,b3,87,fe,ff,ef,f2,c3,7d,00
Block No 12
7d,02,b0,e6,01,8f,1a,c7,94,7d,c1,75,0f,33,be,98,46,6f,ff,dc,40,ec,ca,da,6c,b4,48,79,bf,c5,6b,a6,dd,e8,ff,f0
Block No 4
7d,12,b0,e6,00,9c,20,e4,f3,30,82,8e,05,e3,71,62,56,8b,ef,10,c7,21,d6,27,c7,7f,bf,54,33,f5,56,f3,d1,3e,27,e5
Block No 16
7d,12,b0,e6,02,1e,00,00,40,00,80,00,10,00,00,00,00,00,00,01,00,03,00,04,d0,07,e0,0d,00,0f,90,08,b0,06,20,0c
Block No 17
7d,12,b0,e6,02,3f,f9,90,b9,29,12,0c,60,03,af,16,0e,55,7c,62,5f,60,8d,cc,f2,8b,43,1a,28,a4,41,16,62,60,aa,25
Block No 18
7d,12,b0,e6,02,4b,2b,d4,20,dd,40,70,53,57,82,d8,24,43,c0,0e,00,2c,de,74,c0,21,7a,c0,10,3e,7b,79,65,fb,52,41
Block No 19
7d,12,b0,e6,02,78,9a,37,27,b7,49,37,60,b2,41,80,07,4e,79,c8,59,53,7b,ce,0f,e0,7f,7e,3c,5b,24,95,43,57,43,58
Block No 20
7f,12,b0,e6,02,87,c2,b6,75,71,0e,45,7c,d8,bb,d5,b1,f4,fc,e5,fa,7e,3f,ef,c4,c4,02,1f,19,fd,0f,ff,9d,ab,62,90
Block No 22
7d,12,b0,e6,02,c2,00,cd,80,a8,1a,3e,0a,d6,b0,74,25,9b,f2,fa,0b,27,f0,7c,0d,13,b3,e2,b1,7e,8c,1c,d0,96,75,04
Block No 23
7d,12,b0,e6,02,e1,98,46,63,a2,2a,d0,7a,e2,8e,48,1e,f8,31,4d,e9,10,ea,3b,38,df,df,fb,11,10,03,80,80,cc,0e,0c
Block No 24
7d,12,b0,e6,03,18,2e,dd,8d,26,27,fb,4e,05,4a,16,ed,c7,38,0f,8a,aa,77,f5,be,82,c8,63,98,00,84,ef,4b,59,e0,2f
Block No 25
7d,12,b0,e6,03,3b,86,60,e0,1e,f1,e1,49,46,4b,f3,5b,5d,67,fa,75,4e,7c,38,cf,5a,7c,d8,22,24,60,00,18,a2,77,3e
Block No 28
7d,12,b0,e6,03,91,89,6c,80,38,a7,1a,be,e2,58,44,45,f5,f3,ff,ff,ff,7e,3d,fe,a1,39,97,6e,ee,7d,16,d7,07,f6,c4
Block No 29
7d,12,b0,e6,03,a2,c4,07,84,21,57,81,01,99,b4,86,2c,28,08,2f,61,eb,af,20,11,78,be,f1,8c,8f,44,d4,c7,6d,f9,54
Block No 34

27

7d,12,b0,e6,04,4d,99,02,d2,80,1c,19,00,80,05,81,88,e3,f6,f2,3f,67,6d,dc,9c,40,cf,c7,27,e7,4f,63,8c,a3,ce,39
Block No 35
7d,12,b0,e6,04,7e,d8,b0,7d,80,90,20,c1,b0,e3,40,60,18,04,08,03,86,65,85,de,b3,20,04,4d,e6,80,36,6e,2b,1c,81

Block No 0 : Total Message Size 37 blocks : This transmission contains 0
messages.
7d,12,b0,e6,00,00,00,00,40,00,80,00,00,00,00,00,00,00,07,80,01,00,04,40,07,60,0d,00,0f,90,18,b0,06,20,04
Block No 1 : Link ID 35576 : 20th of month : Msg Number 008 : Msg Type
60465 : Group Count (?) 76
59023 00092 29547 26671 16997 46306 20326 28398
3d,12,b0,e6,00,26,ee,40,c6,c0,38,d5,1f,fc,8c,76,a8,38,f0,62,88,bf,4b,46,24,fe,6e,6e,52,6e,fc,ff,08,49,9a,f7
Block No 4
fd,12,b0,e6,00,99,59,3c,40,17,a8,b1,11,e9,9c,58,a1,c8,51,4f,86,b7,dd,70,d4,86,6c,87,e4,35,f0,55,aa,84,10,f1
Block No 6
7d,12,b0,e6,00,cc,34,43,83,21,f9,a7,80,f1,ff,db,07,0c,83,c6,9d,19,b3,5d,52,9e,59,1e,10,e1,00,16,23,6b,35,7c
Block No 1032
7d,12,b0,e6,81,16,ad,51,a5,23,3f,ff,9f,12,f7,f3,4b,48,e4,ff,ef,aa,78,06,8b,56,de,40,a7,6d,d3,d2,55,ef,1c,7c
Block No 1 : Link ID 00880 : Corrupt Date : Msg Number 209 : Msg Type
04436 : Group Count (?) 205
22093 45688 21407 17279 31817 17929 04896 34821
7d,12,30,e6,00,25,15,cb,16,d2,54,17,4d,48,0e,54,38,33,7d,97,01,ff,74,18,c6,38,40,20,99,05,fd,92,5f,36,cf,fe
Block No 17
7d,13,b0,e6,02,2d,b9,90,b9,29,12,0c,64,81,07,16,0e,55,7c,e6,53,60,8d,cc,f2,8b,43,1a,28,a4,41,12,64,40,82,25
Block No 18
7d,12,b0,e6,02,4b,01,d4,20,dd,40,72,f7,ff,a4,6c,6c,c7,c4,1e,54,2c,de,7c,c0,21,78,40,10,2a,7b,79,65,fb,52,41
Block No 20
fd,12,b0,e6,02,87,c2,b6,75,71,0e,45,7c,58,bb,d5,b1,f4,fc,e5,fa,5a,3e,e5,44,cc,26,9f,19,f5,0f,94,95,ab,62,d1
Block No 21
7d,12,b0,66,02,b4,32,07,98,31,13,bf,85,01,f1,a7,c8,53,3a,8d,64,81,35,8d,34,73,80,b7,ee,08,e3,54,e5,ee,3c,16
Block No 31
7d,12,b0,e6,03,f1,88,07,73,a2,2a,c0,7a,e2,8e,d8,9e,f8,31,ef,e9,11,ea,3b,38,c7,c1,99,b9,98,2b,ca,ca,ee,87,06
Block No 8
7d,12,b0,e6,01,00,0e,dd,8d,26,27,fb,4e,05,48,16,ff,c7,b8,0d,0a,aa,77,f5,be,82,c9,62,98,46,cc,ff,cf,f9,e0,2f
Block No 25
7d,12,b0,e6,03,3b,86,60,e0,1c,a1,e1,49,46,4b,f1,5b,5d,63,fa,75,06,3c,38,cf,5a,7c,d9,bf,36,71,48,18,a2,7f,1f
Block No 30
7d,10,b0,e6,03,c4,3e,04,b1,3e,a4,c7,91,b6,24,ff,37,ff,ff,cc,0e,00,31,b1,52,64,03,e9,b4,68,4a,c8,f9,8d,df,4e
Block No 31
7d,12,b0,e6,03,f7,19,00,1a,5f,10,42,19,82,e7,b9,11,15,e8,79,f4,af,80,42,84,e7,e1,80,87,03,11,48,f6,50,b0,33
Block No 32
7f,12,b0,e6,04,18,00,00,40,00,80,00,10,00,00,00,00,04,20,05,00,03,00,04,d0,07,e0,0d,00,0f,90,08,b0,06,20,0e
Block No 34
7d,12,b0,e6,04,4d,99,27,a5,2a,1d,3b,d5,a0,05,83,99,e7,e6,f2,3f,27,6d,dc,9c,40,cf,c7,27,c7,4f,27,84,a3,ce,18

Block No 4
7d,12,b0,f6,00,99,59,3c,d1,37,a8,b0,00,e9,9c,58,b1,c8,51,47,86,b7,dd,70,d4,86,24,83,e4,35,f0,55,aa,c2,00,71
Block No 5
7d,12,b0,e6,00,aa,4f,98,72,fe,7b,b7,ed,f8,00,10,4f,84,82,01,0e,67,dd,60,13,83,96,40,7f,77,ea,88,09,70,0a,65
Block No 2
7d,12,b0,e2,00,44,00,21,81,25,f9,a6,80,d0,af,49,83,86,41,e3,4e,8c,49,ae,a9,4f,2d,8f,00,70,8e,cb,11,15,9a,3e
Block No 0 : Total Message Size 9 blocks : This transmission contains 0
messages.
7d,12,b0,e2,00,01,1f,ef,16,d0,00,1f,04,00,06,54,38,33,7d,97,01,ef,74,18,c6,30,c9,6a,99,05,fd,92,5f,06,ca,62
Block No 11
7d,12,b0,e6,01,6b,34,ce,0e,00,35,8a,4f,30,96,d9,19,81,00,8e,49,01,00,c4,00,60,c6,82,7e,ff,70,1b,16,c4,5a,22
Block No 12
7d,12,b0,e6,01,8f,1a,c7,94,7d,c1,75,05,01,9e,18,46,6d,7f,0c,51,ec,ca,c8,64,04,00,38,91,c5,6b,a6,dd,e8,eb,f5
Block No 14
7d,12,b0,e6,01,da,71,14,3e,9e,77,68,13,40,8d,09,53,0f,be,79,23,e6,6a,c0,e0,19,06,5b,8e,f7,0f,de,3f,7f,fa,94
Block No 16

7d,12,b0,e6,02,1e,00,00,40,00,80,00,10,00,00,00,00,04,20,05,00,01,00,04,d0,03,20,0d,00,0f,90,08,b0,06,20,0c
Block No 60
7d,12,b0,e6,07,8f,80,24,60,62,1c,8a,f8,b1,77,ab,63,e9,f8,c3,fc,b4,7c,ca,89,98,45,3e,33,ea,1f,29,2f,56,cf,e7
Block No 18
7d,12,b0,e6,02,52,00,cd,80,a8,1a,3e,0a,d6,b0,74,27,9b,f3,fa,0b,27,f0,7d,00,13,b3,e2,39,7d,0c,1c,c0,16,75,4d
Block No 56
7d,12,b0,e6,07,00,3e,dd,8d,26,27,fb,4e,05,fe,3f,fd,c7,38,0d,0a,aa,77,f5,be,82,c9,f7,98,46,cc,ef,4b,58,e0,2f
Block No 25
7d,12,f0,e6,03,3b,86,60,e0,1c,a1,e0,49,46,4b,f3,ff,dd,67,fa,75,4e,7c,38,cf,08,3c,48,33,36,71,48,1c,f3,7f,16
Block No 26
7d,12,b0,c6,03,5d,6e,0b,47,6d,cd,4e,26,94,67,33,b0,ff,c3,ef,07,7f,e9,de,30,e3,d9,00,f3,1f,7f,72,60,01,00,03
Block No 27
7d,12,b0,e6,03,6e,90,80,01,08,cb,07,7c,a1,c6,56,a0,00,57,e8,17,9f,ee,4d,5c,66,03,f0,16,78,46,46,76,70,fd,63
Block No 28
7d,12,b0,e6,03,91,89,64,15,7a,a7,1a,ae,a2,58,44,7f,fd,d3,da,bd,f7,2e,1f,ff,50,9c,cb,b7,77,3e,8b,7b,97,fb,62
Block No 30
7d,12,b0,e6,03,c4,2d,04,b1,3f,e5,cf,b1,b6,64,f6,03,bd,f7,80,3e,40,63,e6,a6,e4,01,e1,f4,68,4a,c8,f9,8d,df,4e
Block No 48
7d,12,b0,e6,06,18,00,00,60,00,80,00,10,00,00,00,00,20,05,00,23,00,05,d0,07,60,0d,00,0f,90,08,b0,06,20,0c
Block No 33
7d,12,b0,e6,04,23,50,20,18,60,39,04,12,65,39,e4,ff,c3,ee,1f,f9,fa,83,ff,77,44,5a,15,34,56,6a,99,24,58,0d,bd
Block No 34
7d,12,b0,e6,04,4d,99,25,a5,2a,1d,3b,7f,80,05,83,99,e7,e6,f2,3f,27,6d,dc,9c,40,cf,c7,27,e7,4f,63,84,01,c6,1c
Block No 35
7d,12,b0,e6,04,7e,d8,f0,7d,80,95,60,c1,b0,e3,c0,ea,ba,ad,48,03,04,cb,0b,bf,e6,4a,f9,ff,cf,00,0c,dc,56,39,03

Block No 2
7d,12,b0,e6,00,55,b5,c3,03,86,ab,25,78,e3,63,f2,7d,e6,13,f6,41,16,e2,c4,04,0f,d8,cb,be,4b,0f,3c,4e,ad,7e,cf
Block No 4
7d,12,b0,e6,00,99,59,3c,d1,bf,e8,b1,11,e9,9c,58,b1,c8,51,47,86,b7,dd,70,00,02,24,01,e0,35,f0,55,aa,96,10,f0
Block No 6
7d,12,b0,e6,00,cc,10,41,81,20,f8,a6,80,d0,af,49,81,82,41,e3,4e,8c,d9,ae,a9,4f,04,8f,88,70,8a,4b,11,ff,9a,be
Block No 8
7d,12,b0,e6,01,16,ad,51,a5,67,7e,f7,15,32,f7,f3,4f,c9,ec,f6,af,2a,78,06,03,56,de,40,a7,6d,d2,d2,55,ef,1e,74
Block No 8
7d,12,b0,e2,01,03,34,ce,4e,a6,71,82,4f,f0,96,d9,1b,ab,00,86,01,03,51,cd,4a,e5,c6,82,7e,ee,f0,2b,12,c4,5a,22
Block No 15
7d,12,b0,e6,01,f0,7e,6c,c0,40,40,21,43,89,98,d9,32,b6,ff,9c,1b,d7,b7,80,10,00,79,db,87,f8,50,02,d2,e7,7c,00
Block No 13
7d,1a,b0,e6,01,bc,60,e4,f7,71,e6,8e,05,e3,31,62,56,01,ef,10,c3,01,d6,27,c3,3f,9f,fc,77,ff,bf,f3,d1,3e,27,e5
Block No 16
7c,12,b0,e6,02,1e,00,00,40,00,80,00,10,00,00,00,00,04,20,05,00,03,00,04,d0,07,60,0d,00,0f,80,08,b0,06,20,0c
Block No 17
7f,12,b0,e6,02,2d,fb,90,b9,39,12,0c,64,93,af,17,5e,55,7c,e6,5f,60,8d,cc,f0,01,41,08,00,24,41,12,66,e9,aa,27
Block No 22
7d,12,b0,e6,02,d2,00,c4,80,a8,1a,3e,0a,df,f8,74,25,9b,f2,ea,0b,27,f0,7d,0f,13,b3,e0,18,fd,0c,1c,d0,96,75,4d
Block No 23
7d,12,b0,e6,02,e1,98,46,63,a2,20,80,70,c1,1d,b1,3d,f0,62,9b,c2,23,d4,76,71,9f,97,77,33,30,03,95,95,dd,0e,0c
Block No 9
7d,12,b0,e2,01,3b,86,60,e0,1c,a1,e1,49,46,43,f3,5b,5d,67,fa,75,4e,7c,38,cf,5a,7c,d9,3b,be,71,48,18,a2,77,16
Block No 27
7d,13,b0,e6,03,6e,9a,82,83,19,db,07,7c,a1,c2,02,00,00,03,ea,1f,9d,ce,4d,5c,ee,43,e0,04,70,04,de,76,71,fd,63
Block No 30
7d,12,b0,e6,03,c4,2d,04,b1,3e,a4,c7,91,b6,64,fe,27,bd,ff,88,be,40,63,62,a6,e4,03,e9,a0,60,4a,c8,79,87,ee,06
Block No 31
7d,12,b0,e6,03,f7,1b,4a,ba,5b,00,42,1b,a6,e3,b9,11,15,e8,79,f4,af,89,62,84,e6,a1,83,af,47,11,48,f6,50,b0,30
Block No 34
7d,12,b0,e6,04,4d,99,25,a5,2a,1d,3b,55,a0,05,83,99,e7,e6,f2,3f,27,6d,dc,98,d9,df,8e,4f,ce,9e,cf,18,03,9c,72

29

Block No 1 : Link ID 41018 : 14th of month : Msg Number 020 : Msg Type

07145 : Group Count (?) 245

32768 26024 34585 26908 05302 01935 34119 20775

7d,1a,b0,e6,00,33,18,f6,b0,55,e0,ea,90,58,a8,86,0c,79,31,11,a4,9c,10,85,47,51,b8,42,6f,77,d1,8b,92,0f,fc,67

Block No 9

7d,12,b0,e6,01,25,15,cb,16,d2,54,17,4d,48,0e,44,18,33,7d,97,01,ef,74,18,c6,30,c9,6a,99,05,fd,92,5f,16,ce,ea

Block No 10

7d,12,b0,e6,01,43,34,ce,4e,a6,75,8a,4f,30,96,d9,1b,ab,49,8e,4b,2b,51,cd,4a,e5,c6,80,7e,ee,f0,2b,16,c4,5a,22

Block No 1 : Link ID 37809 : 13th of month : Msg Number 091 : Msg Type

03268 : Group Count (?) 45

35351 49689 56220 38593 37884 13335 41407 37882

7d,12,b0,e6,00,30,08,2c,ca,d2,c1,21,47,89,98,d9,32,b6,b5,9c,1b,c1,93,a9,34,13,f1,bf,c7,fa,55,66,d2,e7,7d,00

Block No 13

fd,12,b0,e6,01,bc,60,e4,f7,71,e6,8e,05,e3,71,62,56,8b,ff,30,c7,21,d6,27,c3,7f,9f,54,33,f5,56,f3,d1,3f,37,e7

Block No 16

7d,12,b0,e6,02,1e,10,00,40,00,80,00,10,00,00,00,00,0c,20,05,00,03,00,04,d0,07,60,0d,00,0f,b0,19,f0,06,20,0c

Block No 0 : Total Message Size 57 blocks : This transmission contains 7

messages.

7d,12,b0,e2,00,06,80,36,75,71,0e,45,7c,52,3b,d5,b1,f4,fc,e5,fb,7a,3e,e5,44,cc,26,9f,19,f7,0f,94,95,ab,62,d1

Block No 24

7d,12,b0,e6,03,00,2e,d9,08,04,07,bb,4e,05,4a,16,ec,c7,38,0d,1f,fe,ff,ff,ff,87,c9,67,98,46,cc,ef,4b,59,e0,7f

Block No 26

7d,12,b0,e6,03,5d,6e,0b,47,60,cf,ef,26,94,ef,b3,20,ad,87,de,0e,67,43,bc,61,c7,b2,00,a6,3e,ff,fe,60,03,00,a7

Block No 27

7d,12,b0,e6,03,6e,9a,82,83,19,d9,0f,fc,a1,c6,42,00,04,57,ea,1b,9d,ce,4d,5c,ee,43,f0,1f,7c,7b,6e,32,30,7c,21

Block No 28

3d,12,b0,e6,03,91,89,fc,95,7a,03,08,06,00,18,44,55,f5,d3,da,fd,f7,2e,1f,ff,f0,9d,cb,b7,77,3f,8b,6b,97,fb,62

Block No 30

7d,12,b0,e6,03,c4,2d,04,11,3e,a4,43,91,b6,64,f6,27,bd,f7,88,be,40,63,62,a6,e4,03,e1,b4,68,48,48,f9,8d,df,4e

Block No 31

7d,12,b0,e6,03,f7,1b,4a,ba,5b,10,42,1b,a6,e7,b9,11,15,e8,79,f4,af,89,62,80,62,00,83,af,47,11,48,f6,50,b0,31

Block No 34

7d,12,b0,e6,04,4d,80,00,00,00,0c,1f,ff,f0,02,c1,cc,f3,e2,70,1f,07,6d,dc,0c,00,cf,c7,27,f7,e7,b3,c6,51,e7,1c

Block No 35

7d,12,b0,66,04,7e,d8,b0,7d,80,95,f0,60,d8,61,00,20,1c,05,48,03,04,cb,09,9c,22,00,49,bb,4d,00,6c,de,5f,3d,81

Block No 0 : Total Message Size 37 blocks : This transmission contains one

message.

7d,12,b0,e6,00,00,00,00,40,00,80,00,10,00,00,00,00,04,00,01,80,03,00,04,d0,07,60,0c,00,07,80,00,f0,06,20,0c

Block No 1 : Link ID 40984 : Corrupt Date : Msg Number 004 : Msg Type

07145 : Group Count (?) 117

32768 09640 33537 26636 23702 03983 34119 22567

7d,52,b0,e6,00,33,18,72,b0,55,e0,ea,90,58,a8,86,04,38,10,00,84,1c,50,85,cf,58,98,42,6f,77,d1,8b,92,0f,fa,11

Block No 3

7d,12,b0,e6,00,66,ee,40,c5,c8,38,d5,1f,d4,8c,76,aa,78,70,62,88,9f,01,02,24,f6,7e,fe,f6,ee,08,79,08,c9,9a,73

Block No 6

7d,12,b0,e6,00,cc,34,43,83,65,f9,a6,80,50,af,49,83,86,41,e3,46,8c,d9,86,a9,4f,24,07,80,30,8a,4b,11,b5,9a,1e

Block No 3

3d,12,b0,e6,00,7f,8c,d9,7d,8d,9b,3d,e0,d0,8c,17,fc,e2,72,f4,d3,48,63,6f,d9,e2,6c,8a,65,f4,3f,f3,1b,01,26,0b

Block No 8

7d,12,b0,e6,01,16,ad,51,a5,67,7e,f7,15,32,ff,fb,4b,49,ec,f6,07,95,3c,03,45,ab,ff,60,53,b6,e9,6d,2a,f7,8e,3a

Block No 13

7f,12,b0,e6,01,bc,60,64,f7,71,e6,8e,05,e7,f1,62,56,8b,ef,10,c7,21,d6,07,c3,3f,9f,fe,33,f5,56,f3,c0,3e,27,e5

Block No 14

7d,12,f0,e6,01,da,71,1c,7f,be,cd,b5,6e,01,1a,12,a6,3f,fc,f2,07,cc,d5,83,ca,7e,9c,b7,1d,ee,1f,bc,7e,7f,ff,28

Block No 15

7d,12,90,e6,01,f9,96,af,f8,26,0f,c9,01,c0,98,33,72,51,2b,f5,bc,55,e2,c1,f8,8e,40,02,0c,ec,85,df,21,f4,86,84

Block No 17

7d,12,b0,e6,02,2d,b9,90,b9,29,12,0c,64,93,af,16,0e,55,7c,e6,5f,60,0c,80,72,8b,47,ba,79,ec,c2,24,cd,d3,54,4a

Block No 18

7d,12,b0,e6,02,4b,2b,d4,20,5f,e0,7b,29,ab,d2,6c,36,63,e2,0f,2a,16,4f,3a,60,10,bd,60,08,15,3d,bc,b2,fd,a9,20

Block No 20
7d,12,b0,e6,02,87,c3,f6,75,71,8e,41,7c,58,bb,d5,b1,f4,fc,65,fa,1a,3e,e5,44,cc,26,9f,19,f5,0f,94,95,ab,20,40
Block No 22
7c,12,b0,e6,02,d2,00,cd,80,a8,1a,3e,17,a2,10,74,35,9b,f2,ea,0b,27,f0,ff,1f,33,b3,e2,ba,fd,0c,0c,c0,02,31,4d
Block No 31
7d,12,b0,e6,03,e3,b8,ce,63,a2,2a,d0,fc,c0,0c,90,3d,f0,62,9b,d2,23,d4,76,71,9f,97,77,33,10,57,9f,9f,dd,0e,0c
Block No 25
7d,12,b0,e6,03,3b,86,60,e0,08,00,e0,00,02,01,f3,5b,ff,ff,ff,75,4e,7c,30,8f,5a,7c,d9,33,3e,71,d8,39,e6,f7,16
Block No 8
7d,12,b0,e6,01,0c,2e,0b,47,26,e5,0e,27,94,ef,b3,20,ad,87,de,0e,6f,f3,fc,61,c7,b2,00,a6,3e,fe,e0,40,03,00,e7
Block No 27
7d,12,b0,e6,03,6e,9a,82,83,19,db,07,7c,a1,c6,56,20,24,7f,e8,0f,8c,c6,0d,5c,ee,43,f0,16,78,56,de,76,70,fd,63
Block No 30
7d,12,b0,e6,03,c4,2d,04,b0,1e,a4,c7,90,b6,64,f6,27,bd,f7,98,be,40,63,62,a6,e4,03,e9,b0,28,4a,c8,f9,8d,df,4e
Block No 31
7d,12,b0,e6,03,f3,09,02,ba,5b,10,42,1b,a6,e7,f9,11,15,e8,7d,f5,af,89,62,84,e6,a1,83,a7,83,11,48,f6,50,b0,33
Block No 0 : Total Message Size 74 blocks : This transmission contains 7
messages.
7d,12,b0,e6,00,01,78,34,9c,72,3d,a7,7f,75,39,e4,d6,c1,e6,09,b8,fa,81,fd,32,a0,24,06,9a,2b,35,4c,92,2c,06,de
Block No 35
7d,12,b0,e6,04,7f,99,20,01,2a,1d,3b,55,a0,05,83,99,e7,e2,70,3f,27,6d,fc,9c,40,cf,c7,27,e7,4f,67,8c,a3,ce,39
Block No 1 : Link ID 41018 : 14th of month : Msg Number 020 : Msg Type
03049 : Group Count (?) 245
32768 26024 34585 26908 21686 01935 34119 61735
7d,12,b0,e6,00,33,08,f6,b0,55,e0,ea,90,58,a8,86,0c,79,31,11,a4,9c,50,8f,47,51,b8,42,6f,77,d1,8f,92,0f,fc,67
Block No 2
7d,12,b0,e6,00,55,b5,c3,81,82,01,25,78,e3,20,d2,7d,e6,13,f6,41,1f,e7,c4,02,4f,d8,cb,be,4b,0f,3c,5e,ad,7e,cf
Block No 3
7d,12,b0,e6,00,66,ee,40,c5,c8,38,d5,1f,d4,8c,76,aa,78,f0,62,88,bf,4b,46,24,d6,6e,7e,56,7f,ac,7d,08,49,9a,73
Block No 4
7c,12,b0,e6,00,99,f9,3c,d1,37,a8,b1,11,e9,8e,2c,58,e4,29,e3,c3,5b,ee,b8,6a,43,36,43,f2,1a,f8,2a,d5,4b,08,78
Block No 7
7d,12,b0,e6,00,ff,8c,d9,7d,8d,9b,3d,e0,c0,04,17,54,e2,70,70,d1,40,23,27,c9,62,6c,88,60,f4,3f,f3,1b,01,26,09
Block No 8
5d,12,b0,e6,01,16,ad,51,a5,67,7e,f7,15,32,f7,f3,4b,48,ec,f6,0f,3a,78,0f,8f,56,de,40,a7,6d,d2,d2,01,ef,1c,74
Block No 9
7d,12,b0,e6,01,25,15,c3,16,d0,54,17,4d,e8,0e,fc,78,33,7d,97,01,ef,74,18,c6,30,c9,6a,99,05,fd,92,7f,06,ca,ea
Block No 10
7d,12,b0,e6,01,43,34,ce,4e,a6,7f,9e,ff,70,96,d8,09,81,00,86,4b,2b,51,cd,4a,e5,c6,82,7e,ee,f0,2b,16,c4,5a,22
Block No 28
7d,12,b0,e6,03,8f,1a,c7,84,7d,c1,75,0f,33,ff,98,46,6d,7f,5c,51,ec,ca,da,6c,b4,08,79,b1,80,d7,4d,bb,d1,c7,ea
Block No 13
7d,12,b0,e6,01,bc,60,e4,f7,71,e6,8e,05,e3,71,62,56,8b,ef,10,c3,21,d6,07,c1,1f,9f,54,33,ff,ff,f7,f0,3e,03,e7
Block No 15
7d,12,b0,e6,01,e9,96,af,f8,26,0f,db,03,c0,08,12,52,51,2b,f5,bc,55,e2,c1,f8,8e,40,02,0c,ec,85,df,01,f4,86,84
Block No 16
7d,12,b0,e6,02,1e,00,00,40,00,80,00,10,00,00,00,00,04,20,05,00,03,00,00,50,07,60,0d,00,0f,90,08,b0,06,20,0c
Block No 17
3d,12,b0,e6,02,2d,b9,90,f9,29,00,0c,64,93,af,16,0e,55,7c,e6,5f,60,cd,ec,f2,8b,43,1a,29,ac,c1,12,66,e9,aa,25
Block No 0 : Total Message Size 19 blocks : This transmission contains 5
messages.
3d,12,b0,e6,00,00,03,d4,20,dd,40,72,53,57,a4,d8,6c,43,c0,0f,04,2c,de,74,c0,21,7a,c0,10,2a,7b,79,6d,fb,56,c1
Block No 19
7d,12,b0,e6,02,78,9a,37,27,b7,49,37,60,b2,cb,81,07,5e,79,c8,59,53,7b,ce,0f,60,3d,36,3c,5b,64,95,03,57,43,f8
Block No 21
7d,12,b0,e6,02,b4,36,0b,18,73,13,bf,85,01,f0,87,c8,53,3a,8f,e4,81,35,8d,74,77,90,b7,e6,08,e3,de,e5,e6,2c,16
Block No 22
7d,12,b0,ee,02,d2,00,cc,80,00,08,1e,0f,ff,f8,7a,12,cd,fb,fd,05,93,f8,1e,06,89,d9,f1,5d,7e,86,0e,68,4f,3a,a6
Block No 23
7d,12,b0,e6,02,e1,98,46,63,a2,2a,d0,7a,e2,8e,d8,9e,f8,31,4d,e8,01,ea,3f,3c,cf,cb,bb,99,98,2b,ca,ca,ee,87,06

Block No 24
7d,12,b0,ee,03,08,2e,df,cd,26,27,f9,06,05,6f,16,ec,c7,38,0d,0a,aa,77,ff,fe,82,c9,67,98,46,cc,ef,cb,59,e0,2f
Block No 25
7d,12,b0,e6,03,3b,8e,e0,e0,1c,a1,e1,49,46,4b,f3,5b,5d,67,fa,75,4e,7c,38,cf,5a,7c,d9,33,36,71,00,18,a2,77,3e
Block No 27
7d,12,b0,e6,03,6e,9a,82,83,19,db,07,fc,a1,c6,56,a0,24,57,e2,1f,9d,ce,4d,fe,77,01,f0,02,38,02,de,76,70,fd,61
Block No 30
7d,12,b0,e6,03,c4,2d,05,f1,3e,a4,c7,91,be,64,f6,27,bd,f7,88,be,40,63,62,a6,e4,03,e9,b4,68,4a,c8,f9,8d,df,4e
Block No 31
7d,12,b0,e6,03,f7,1b,4a,ba,09,10,42,1b,a6,e7,b9,33,3f,f8,fb,fd,af,80,67,8f,fd,e3,87,ff,cf,11,40,f6,50,b0,33
Block No 32
7d,12,b0,e6,04,18,00,00,40,00,00,00,30,00,00,00,00,00,00,05,00,03,00,04,d0,07,60,0d,00,0f,90,08,b0,06,20,0c
Block No 33
7d,12,b0,e6,04,2b,78,34,9c,72,3d,a6,29,32,9c,f2,7f,e1,f2,01,dc,7d,40,fe,dd,d1,16,85,4d,15,9a,26,49,3e,07,ff
Block No 35
7d,12,b0,e6,04,7c,08,b0,3c,80,05,60,c1,b0,e3,40,eb,ff,ff,d8,03,04,cb,0b,bd,66,0a,d9,bb,4d,00,6c,dc,56,39,03

date	UTC	day	frequency	remarks	mode
1-01	1000	Wed	19313	Russian Intel. Link ID 53277 Msg Type 07145	FSK200/1000
1-01	1010	Wed	16348	Russian Intel. Link ID 53277 Msg Type 07145	FSK200/1000
1-01	1020	Wed	14494	Russian Intel. Link ID 53277 Msg Type 07145	FSK200/1000
1-01	1200	Wed	16329	Russian Intel. Link ID 53277 Msg Type 07145	FSK200/1000
1-01	1210	Wed	14826	Russian Intel. Link ID 53277 Msg Type 07145	FSK200/1000
1-01	1230	Wed	12166	Russian Intel. Link ID 53277 Msg Type 07145	FSK200/1000
2-01	2000	Thu	5793	Russian intel/diplo 7 58	FSK 200/500
2-01	2010	Thu	4538	Russian intel/diplo 7 58	FSK 200/500
2-01	2020	Thu	3827	Russian intel/diplo 7 58	FSK 200/500
4-01	1300	Sat	18526	Russian intel/diplo 6 54	FSK 200/500
4-01	1310	Sat	16142	Russian intel/diplo 6 54	FSK 200/500
4-01	1320	Sat	14674	Russian intel/diplo 6 54	FSK 200/500
5-01	1220	Sun	19880	Russian diplo	CROWD-36
7-01	----	Tue	18769	Russian Intel. Msg on link ID 16404 Msg Type 07145	FSK200/1000
7-01	0715	Tue	6857	Russian Gov. 102 100 7 0801 8638 = 54238 76286 28197 ... 98120 22215 30008 =100= confirmed in CW with CFM NIL K SK	Baudot 50/500
9-01	0230	Thu	14880	Russian Intel. Msgs on links 13366, 41272, 37665, 28451, 41008, 14755, 41018, 29977	FSK 200/1000
9-01	0519	Thu	5092	LENJ: Russian Gov. VVV VVV LTJQ DE LENJ QSA4 QSA? QTC1 ZZC ZVP into 5F RTTY msg with =50= group count	Baudot 50/500 + CW
10-01	0150	Fri	16320	Russian Intel. Msgs on links 55042, 41018	FSK 200/1000
10-01	0230	Fri	14880	Russian Intel. Msgs on links 26732, 40986, 40850, 01323, 59642	FSK 200/1000
13-01	0150	Mon	16320	Russian Intel. Msgs on links 41087, 32803, 02422, 41018	FSK 200/1000
13-01	0230	Mon	14880	Russian Intel. Msgs on links 13366, 41018, 61567, 35891, 41023, 32826	FSK 200/1000
13-01	1115	Mon	16132	Russian intel. Link ID 36882	FSK 200/1000
14-01	0150	Tue	16320	Russian Intel. Msgs on links 61502, 00880	FSK 200/1000
14-01	0230	Tue	14880	Russian Intel. Msgs on links 05183, 41018, 35576, 00880, 37809, 40984	FSK 200/1000
14-01	0802	Tue	18277	Russian diplo	CROWD-36
14-01	0807	Tue	18484	Russian diplo	CROWD-36
14-01	1001	Tue	18277	Russian diplo	CROWD-36
14-01	1748	Tue	8108	Russian diplo	CROWD-36
16-01	0150	Thu	16320	Russian Intel. Msgs on links 57573, 08433	FSK 200/1000
16-01	0230	Thu	14880	Russian Intel. Msgs on links 40976, 45296, 62480, 00078, 41018, 14178, 62480	FSK 200/1000
17-01	0150	Fri	16320	Russian Intel. Msgs on links 13876, 61498, 23020, 10996, 49296, 32382, 41018	FSK 200/1000
17-01	0230	Fri	14880	Russian Intel. Msgs on links 13876, 41018, 61498, 33675, 41086	FSK 200/1000
20-01	0150	Mon	16320	Russian Intel. Msgs on links 13366, 13367, 61498, 41018, 00059, 57519, 52938, 53615, 41023, 61816	FSK 200/1000
20-01	0230	Mon	14880	Russian Intel. Msgs on links 13374, 41016, 41018	FSK 200/1000
20-01	0548	Mon	6830	RWI: Russian PTT RYF2 DE RWI QSA?	Baudot 50/500
21-01	0500	Tue	6987	Russian diplo	CROWD-36

date	UTC	day	frequency	remarks	mode
21-01	1653	Tue	9143	Russian Intel. Link 20501, Msg Nr 130, Type 07145.	FSK 200/1000
23-01	0150	Thu	16320	Russian Intel. Msgs on links 31840, 40972, 61660	FSK 200/1000
23-01	0230	Thu	14880	Russian Intel. Msgs on links 13876, 41018, 62392, 20580, 61915, 41008, 53193	FSK 200/1000
23-01	1829	Thu	6933	Russian diplo	CROWD-36
24-01	0150	Fri	16320	Russian Intel/diplo. Msgs on links 61499, 29822	FSK 200/1000
24-01	0230	Fri	14880	Russian Intel/diplo. Msgs on links 13374, 00000, 29750, 12310, 00127, 24634, 08250, 43119	FSK 200/1000
25-01	0645	Sat	6925	CIS Gov. PRAT DE LKDW QSA QRV into RTTY 5FG message using =50= group count	CW + Baudot 50/500
25-01	1223	Sat	19880	Russian diplo	CROWD-36
25-01	1542	Sat	18689	Russian Intel link id 32821	FSK 200/1000
25-01	1550	Sat	16156	Russian intel/diplo Link ID 32821	FSK 200/1000
25-01	1556	Sat	16156	Russian Intel link id 32821	FSK 200/1000
25-01	1820	Sat	5387	Russian intel/diplo 6 24	FSK 200/500
25-01	1830	Sat	4572	Russian intel/diplo 6 24	FSK 200/500
26-01	1525	Sun	16308	Russian intel/diplo. Link id 32821	FSK 200/1000
26-01	1734	Sun	7675	Russian diplo	CROWD-36
27-01	0150	Mon	16320	Russian Intel. Msgs on links 16740, 41000	FSK 200/1000
27-01	0230	Mon	14880	Russian Intel. Msgs on links 13366, 41018, 41016, 40986, 16740, 62783, 40238	FSK 200/1000
27-01	0547	Mon	7635	RWA50: Russian PtP station VVV VVV RLC2 DE RWA50 QSA?	RUS-ARQ 100/500
28-01	0150	Tue	16320	Russian Intel/diplo. Msgs on links 53016, 50444	FSK 200/1000
28-01	0230	Tue	14880	Russian Intel/diplo. Msgs on links 16740, 41338, 41018, 26201, 29631, 49466, 57402	FSK 200/1000
29-01	0150	Wed	16320	Russian Intel/diplo. Msgs on links 13428	FSK 200/1000
29-01	0230	Wed	14880	Russian Intel/diplo. Msgs on links 13873, 41018, 05649	FSK 200/1000
30-01	0150	Thu	16320	Russian Intel/diplo. Msgs on links 07550, 49135	FSK 200/1000
30-01	0230	Thu	14880	Russian Intel/diplo. Msgs on links 41018, 06647, 41022, 00019, 41018, 24873	FSK 200/1000
30-01	1745	Thu	7760	Russian diplo	CROWD-36
31-01	0150	Fri	16320	Russian Intel/diplo. Msgs on links 01150, 31518, 40986, 61469, 08318	FSK 200/1000
31-01	0230	Fri	14880	Russian Intel/diplo. Msgs on links 57093, 09848, 03776, 40968, 32826, 22530, 41018, 22530	FSK 200/1000

M42a: 30-01, 1800 UTC: GRU hfdf net "VVV 3K"

X06

date	UTC	day	frequency	remarks
12-01	1647	Sun	8194	Mazielka
14-01	0758	Tue	20814	Mazielka. Sequence 216354
30-01	1556	Thu	7730	Mazielka. Sequence: 123456
30-01	1608	Thu	7855	Mazielka. Sequence: 123456
30-01	1750	Thu	10860	Mazielka
30-01	1754	Thu	10860	Mazielka. Sequence: 123456

XP family

XPA: 9109/10909/12209 kHz, 04-01, 0700/0720/0740 UTC
Block Sync
4444444444
Block Sync
192 192 192 000 192 192 192 000 192 192 192 000
Block Sync
4444444444
Block Sync
6
Message Start
02462 00001 00000 10140

XPA2: 20259/18059 kHz, 07-01, 0800/0820 UTC
81696 25095 79575 40963 66861 95615 64161 41039 43829 51263
25339 93558 09441 44373 02238 04247 35160 97730 58768 12810
72108 96011 80399 10763 04502 02391 58860 18827 29078 01742
67214 66665 42146 54292 26169 96221 85321 14266 60980 53057
68989

XPA2: 16168/14664/13924 kHz, 25-01, 1400/1420/1440 UTC
05273 00113 52517 27983 40331 86766 55387 48915 89275 32101
14791 82415 58674 61567 35261 92307 67017 07063 33682 49776
65319 05009 68337 20485 77567 54576 23850 78108 87326 54407
16086 01582 76189 34100 14857 09996 05122 96957 82030 37912
80787 34732 16826 12229 69203 21246 08791 62221 43920 49037
43659 74669 33875 05655 62768 09017 62121 97088 41779 21219
34085 36634 58594 07902 66289 19415 05988 36159 56925 84137
64124 33783 82935 27752 70410 84552 46054 18691 83638 30619
38254 98774 50871 43415 74263 95662 00639 98242 57489 08652
19844 69677 88806 40278 59801 58006 48929 56482 39250 66028
01910 07733 58891 72735 19166 46407 87878 08835 88559 28539
57030 24484 24163 93894 42223 55477

Czech diplomatic stations

07-01, 0715 UTC, 6822.5 kHz Czech diplo (tentative) clg OL1A   Pactor-II/100Bd/200Hz
18-01, 0715 UTC, 8126.6 kHz Czech diplo   Pactor II/100/200 crypto

North Korean diplomatic stations

04-01, 0220 UTC, 16320   North Korean diplo   DPRK-ARQ 600/600 LSB
04-01, 0800 UTC, 16320   North Korean diplo   DPRK-ARQ 600/600 LSB
07-01, 2300 UTC, 16003   North Korean diplo   DPRK-ARQ 600/600 LSB

Egyptian diplomatic stations

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

date	UTC	frequency	remarks	mode
5-01	0906	18378.7	Egyptian MFA clg XBVK and selcall 99905: Egyptian embassy Bern	SITOR-A + Codan chirp
5-01	1109	18472.7	Egyptian MFA clg TVXX and selcall 11: Egyptian embassy Sanaa	SITOR-A + Codan chirp
7-01	----	18241.7	Egyptian MFA calling KKVE Embassy Bamako	SITOR-A
7-01	----	18378.7	Egyptian MFA calling XBVK Bern	SITOR-A
7-01	----	19653.7	Egyptian MFA (Unknown) Msg, to KDJFKQR from YJKWL	SITOR-A
7-01	0800	18331.7	Egyptian MFA calling KKVZ Kampala	SITOR-A
7-01	0815	19653.7	Egyptian MFA calling SSTD Cairo	SITOR-A
7-01	0823	19667.7	Egyptian MFA calling OOVF Pyongyang	SITOR-A
7-01	0825	19101.7	Egyptian MFA calling KKXD Djibouti	SITOR-A
7-01	0830	18211.7	Egyptian MFA calling KKXA	SITOR-A
7-01	0837	19523.7	Egyptian MFA calling OOVQ Beijing	SITOR-A
7-01	1005	19346.7	Egyptian MFA calling OOVP Islamabad	SITOR-A
11-01	1836	8065	99910: MFA Cairo call to 11102 embassy Paris	Codan chirp
11-01	1845	8023.7	MFA Cairo clg XBVP embassy Rome	SITOR-A 100/170
17-01	1148	16007.7	MFA Cairo 99902 clg 21	SITOR-A 100/170 + Codan chirp
24-01	1630	6881.7	MFA Cairo clg TVVM, embassy Kuwait	SITOR-A 100/170
25-01		10029.7	MFA Cairo (99910) clg 11107 embassy London	Codan Chirp
28-01	0849	20126.7	MFA Cairoclg KKXE, embassy Lusaka followed by Codan chirps to 1015262, 948672, 855322	SITOR-A 100/170
28-01	1030	20126.7	MFA Cairo (LG)	SITOR-A 100/170
29-01	0837	20124	MFA Cairoplain text ATU80 messages	SITOR-A 100/170
29-01	0840	16086.7	Egyptian MFA clg KKXU, embassy Accra	SITOR-A 100/170
29-01	0940	19101.7	Egyptian MFA clg KKXE Luanda 0940z	SITOR-A 100/170
29-01	0957	18226.7	Egyptian MFA clg KKXE Luanda then Codan Chirp Selcall 33313 0957z	SITOR-A 100/170
29-01	0958	18223.7	Egyptian MFA clg OOVP Isamabad 0958z	SITOR-A 100/170
29-01	0959	19346.7	Egyptian MFA clg OOVP Isamabad 0959z	SITOR-A 100/170

UTILITY ROUND-UP

Unid stations

A spoof or the real thing?? A friend of RWO copied a unid station. I copied the station the next day. No reports after that. It sounded somewhat amateuristic but that was also the case with EV01 in the past. So, what is it? I am pretty sure that it is an amateur station fooling around.

The transmissions were heard on 14340 kHz, 08-01, 1515, 1545 and at 1600 UTC and on 10115 kHz at 2300 UTC. Also on 14340 kHz, 09-01, 1518 UTC

14340 kHz, 08-01, 1515 UTC: Unid station YL/EE. 9EE. 9EE. 9EE. 9GG. 11622061988. Declination. Declination. Declination. 42. 42. 42. Attention. 99999. End of transmission. Goodbye.

14340 kHz, 08-01, 1545 UTC: Unid station YL/EE

14340 kHz, 08-01, 1600 UTC: Unid station YL/EE. Message(3x) 18F(4x) Message 914(2x) Declination(3x) 91(3x) Attention 55555. End of transmission. Goodbye.

10115 kHz, 08-01, 2300 UTC: Unid station YL/EE

14340 kHz, 09-01, 1515 UTC: Unid station YL/EE. Got just the end "End of message. Goodbye"

5770 kHz, 24-01, 1544 UTC: 71.76 4..4 654.. 50357 892.. = VVV VVV 24. = ..21. 78.. 122.. 19 AR (distorted signal). Copied by JPL

Les copied the following station. Most probably an amateur but the odd thing is that it has been heard on various days and times with similar transmissions.

14360 kHz, 28-01, 0816 UTC, unid, male voice, English with a Finnish accent:

Transmission transcript:
123456789101112 13 14 15 16
123456789
No No No
1234567
Hello Yes No No Thanks (Conversational exchange did not seem to be in response to another party. Just part of the tape loop)
123456
Then goes off air

14360 kHz, 30-01, 0858 UTC, same voice:

Transcript:
No No 12345678910
11 13 14
4444444444 Hello Hello Hello Hello
123456789 (pause) 1234568911121314 1516
No No 12345678910
123456789
1235456789010 coughs 111213141516
Off air

Unid 10-minutes network

JPL, Token and Attu copied the 10-minutes net. It is a pity that we still do not know where the signals come from. The net is on the air for at least 10 years !!!

```
3326 // 4112 kHz, 05-01, 1750 UTC   U34D.  Skeds at 20-30 and 50-00
3326 // 4416 kHz, 07-01, 1658 UTC   U34D.  Freq  changed from 4112 to 4116 kHz
3326 // 4112 kHz, 22-01, 1852 UTC   U34D
3326 // 4112 kHz, 22-01, 2156 UTC   U34D
3326 // 4112 kHz, 23-01, 2055 UTC   U34D
3326 // 4112 kHz, 24-01, 1820 UTC   U34D
3326 // 4112 kHz, 26-01, 1500 UTC   U34D
```

Emergency Action Messages
& Skyking Messages

Reports from Dave, Ron, Les, and Tony

Frequencies: 4724, 6739, 8992, 11175, 15016

Date	Time	Call	Message
02-01	1628	2IZNXK	Mainsail
02-01	1630	G5DNFV	Mainsail
02-01	1717	LW6AQ	Mainsail
03-01	1713		Mainsail w/Husker 17 who requests current traffic.
			Mainsail responds that current traffic is G5RSTC, G57TPA & G5WUTJ
06-01	1256	XWA 56 WQ	Mainsail Skyking DNA
06-01	1335	DID 35 EF	Mainsail Skyking DNA
06-01	1343	SEC 43 EY	Mainsail Skyking DNA
06-01	1445	ZMF 45 XE	Mainsail Skyking DNA
06-01	1538	G5FW3W	Mainsail 30 chr EAM
06-01	1544	2IWBO3	Mainsail 34 chr EAM
06-01	1559	5SO 59 HZ	Mainsail Skyking DNA
06-01	1600	G5FW3W	repeat
06-01	1602	2IWBO3	repeat
06-01	1624	YE3 24 MQ	Mainsail Skyking DNA
06-01	1630	G5FW3W	repeated
06-01	1630	2IWBO3	repeated
06-01	1700	G5FW3W	repeated
06-01	1700	2IWBO3	repeated
06-01	1730	G5FW3W	repeated
06-01	1730	2IWBO3	repeated
06-01	1735	G5EZDQ	Mainsail 30 chr EAM
06-01	1740	G556F3	Mainsail 30 chr EAM
06-01	1800	G5FTTN	Mainsail 30 chr EAM
06-01	1802	G556F3	repeat
06-01	1804	G5EZDQ	repeat
06-01	1832	G5LUFT	Mainsail 30 chr EAM
06-01	1834	G5FTTN	repeat
06-01	1836	G556F3	repeat
06-01	1838	G5EZDQ	repeat
06-01	1902	G5XMUO	Mainsail 30 chr EAM
06-01	1904	G5FTTN	repeat

06-01	1906	G556F3	repeat
06-01	1908	G5EZDQ	repeat
09-01	1214	5BI 14 QQ	Mainsail Skyking DNA
09-01	1249	YPI 49 PW	Mainsail Skyking DNA
09-01	1257	2TTEFZ	Mainsail 178 chr EAM
09-01	1347	2IWKWD	Mainsail for MEDIAN 30 chr EAM
09-01	1417	2IWJ2Z	Mainsail for MEDIAN 30 chr EAM
09-01	1443	G5FAKX	Mainsail 30 chr EAM
09-01	1600	2IUDLD	Mainsail 30 chr EAM
09-01	1627	G5D2FZ	Mainsail 30 chr EAM
09-01	1630	G5D2FZ	repeat
09-01	1636	G5HTUQ	Mainsail 30 chr EAM
09-01	1638	G5D2FZ	repeat
09-01	1657	2IOFBD	Mainsail 30 chr EAM
09-01	1700	G5HTUQ	repeat
09-01	1702	G5D2FZ	repeat
09-01	1730	G5HTUQ	repeat
09-01	1730	G5D2FZ	repeat
09-01	1754	G5HYVL	Mainsail 30 chr EAM
09-01	1800	G5HYVL	repeat
09-01	1800	G5GTUQ	repeat
12-01	1502	X4AQOM	Mainsail for EASEMENT? 30 chr EAM
12-01	1532	X4WRYQ	Mainsail for BLOCK? 30 chr EAM
12-01	1602	X4PKJ7	Mainsail for BLOCK? 30 chr EAM
12-01	1718	X4WK2I	Mainsail for ?? 30 chr EAM
12-01	1743	X4UCZU	Mainsail for ?? 30 chr EAM
12-01	1756	ZUG 56 WE	Mainsail Skyking DNA
12-01	1756	OAM 56 WE	Mainsail Skyking DNA
12-01	1954	X4WYUK	Mainsail for DROP 30 chr EAM
12-01	2028	X42P7P	Mainsail for ALBARN 30 chr EAM
12-01	2039	X4YJ46	Mainsail for ?? 30 chr EAM
13-01	1304	E76 04 MM	Mainsail Skyking DNA
13-01	1407	ZLR 07 IQ	Mainsail Skyking DNA
13-01	1516	X4CHQ4	Mainsail 30 chr EAM
13-01	1534	X4XFEA	Mainsail 30 chr EAM superimposed with a rap song. I'd say operator error as music and EAM transmission started and stopped as one. BTW song was "Crooked Smile" by J. Cole ft. TLC (thanks to Shazam).
13-01	1608	G5T7SK	Mainsail; 30 chr EAM
13-01	1629	G5QIBQ	Mainsail 30 chr EAM
13-01	1909	X4XOPO	Mainsail for STREWD 30 chr EAM
13-01	1915	G5OV2S	Mainsail 30 chr EAM
13-01	1921	G52QWP	Mainsail 30 chr EAM
13-01	1933	X475GJ	Mainsail for STREWD 30 chr EAM
13-01	2041	CEN 41 BN	Mainsail Skyking DNA
13-01	2043	X4AAUL	30 chr EAM
13-01	2109	G5AR6P	Mainsail 30 chr EAM
13-01	2244	AU7 44 PK	
14-01	1156	PV2 56 VR	Mainsail Skyking DNA disregard after first reading
14-01	1157	PV2 57 ZR	Mainsail Skyking DNA
14-01	1309	OUL 09 CP	Mainsail Skyking DNA
14-01	1309	TEF 09 CP	Mainsail Skyking DNA
14-01	1335	OQ2 35 MI	Mainsail Skyking DNA
14-01	1352	X4WZ3F	Mainsail for CUTLER 30 chr EAM
14-01	1418	X4JUQX	Mainsail for CUTLER 30 chr EAM
14-01	1439	G5NC5S	Mainsail 30 chr EAM
14-01	1443	G56FOO	Mainsail 30 chr EAM
14-01	1448	G5ZDUW	Mainsail 30 chr EAM
14-01	1454	XOGKVZ	Mainsail 30 chr EAM
14-01	1602	2TAZRS	Mainsail 56 chr EAM
14-01	1619	SWH 19 TG	Mainsail Skyking DNA

14-01	1632	2TAZRS	repeat
14-01	1644	X4O4P7	Mainsail for VELOCITY 30 chr EAM
14-01	1700	2TAZRS	repeat
14-01	1723	XOLF56	Mainsail 30 chr EAM
14-01	1726	XOFZJX	Mainsail 30 chr EAM
14-01	1730	XOFZJX	repeat
14-01	1732	XOLF56	repeat
14-01	1734	X4R24O	Mainsail 30 chr EAM
14-01	1736	2TAZRS	repeat
14-01	1742	XO6B26	Mainsail 30 chr EAM
14-01	1800	XO6B26	repeat
14-01	1802	XOFZJX	repeat
14-01	1804	XOLF56	repeat
14-01	1812	XOR2LF	Mainsail 30 chr EAM
14-01	1922	XOXS4T	Mainsail 30 chr EAM
14-01	1930	X4TYTJ	Mainsail 30 chr EAM
14-01	2032	XOZH67	Mainsail 30 chr EAM
14-01	2048	TEF 48 YB	Mainsail Skyking DNA
14-01	2050	TEF 50 ?J	Mainsail Skyking DNA
14-01	2100	2TRY6M	Mainsail 61 chr EAM
14-01	2203	ZERW6M	Mainsail
14-01	2203	ZERW6M	Mainsail
15-01	1122	X4KTBK	Mainsail 30 chr EAM
15-01	1141	ZUT 41 MA	Mainsail Skyking DNA
15-01	1533	X4E2E2	Mainsail 34 chr EAM
15-01	1621	X4T2LE	Mainsail 39 chr EAM
15-01	1626	X4MRKG	Mainsail 34 chr EAKM
15-01	1659	WID 58 TM	Mainsail Skyking DNA
15-01	1659	6E5 59 TM	Mainsail Skyking DNA disregard after first reading.
15-01	1659	WID 59 TM	Mainsail Skyking DNA
15-01	1659	6E5 59 TM	Mainsail Skyking DNA
15-01	1720	XO4UAE	Mainsail 30 chr EAM
15-01	1735	XOTL3G	Mainsail 30 chr EAM
15-01	1741	XOYCC5	Mainsail 30 chr EAM
15-01	1836	XOT4VI	Mainsail 30 chr EAM
15-01	1842	XOTDB5	Mainsail 30 chr EAM
15-01	2024	XOP2VH	Mainsail 30 chr EAM
15-01	2030	XOP2VH	repeat
15-01	2036	XOKJQ3	Mainsail 30 chr EAM
15-01	2041	XOHIHO	Mainsail 30 chr EAM
16-01	1123	X42LAN	Mainsail for EARTHLY 30 chr EAM
16-01	1136	X4PI6P	Mainsail 30 chr EAM
16-01	1144	X4OMRF	Mainsail for EARTHLY 30 chr EAM
16-01	1231	2PE 31 FS	Mainsail Skyking DNA
16-01	1246	X44223	Mainsail EAM for HURSEY
16-01	1257	X4JM3W	Mainsail for EARTHLY 30 chr EAM
16-01	1306	X46PRD	Mainsail for EARTHLY 30 chr EAM
16-01	1321	XPO 21 GB	Mainsail Skyking DNA
16-01	1447	EM2 47 FG	Mainsail Skyking DNA
16-01	1449	EM2 49 UL	Mainsail Skyking DNA
16-01	1624	HM6 24 YI	Mainsail Skyking DNA
16-01	1711	X45RZI	Mainsail 34 chr EAM
16-01	1730	X45RZI	repeat
16-01	1832	XOONHS	Mainsail 30 chr EAM
16-01	1938	EM2 38 AP	Mainsail Skyking DNA
17-01	1229	VO5 43 KU	Mainsail Skyking DNA
17-01	1229	US2 29 CA	Mainsail Skyking DNA
17-01	1229	EVW 29 CA	Mainsail Skyking DNA
17-01	1358	KDT 58 Z?	Mainsail Skyking DNA (bad echo)
17-01	1426	X45IC5	Mainsail for POKER TABLE for LINOY?? 30 chr EAM

17-01	1504	X4ZJIL	Mainsail 44 chr EAM
17-01	1511	X4YLCE	Mainsail 30 chr EAM
17-01	1521	X5XEXT	Mainsail 30 chr EAM
17-01	1530	X4ZJIL	repeat
17-01	1535	XO4LSI	Mainsail 30 chr EAM
17-01	1541	XOYE4U	Mainsail 30 chr EAM
17-01	1600	XOYE4U	repeat
17-01	1602	XO4LSI	repeat
17-01	1607	XOBSL6	Mainsail 30 chr EAM
17-01	1621	X4TVAL	Mainsail 30 chr EAM
17-01	1630	XOVSL6	XOBSL6 42WAGPQDUKNXXK4H5OS4ADTR repeated
17-01	1632	XOYE4U	XOYE4UH4HYQVR4HH3DUKTEKGMWC25I repeated
17-01	1634	XO4LSI	XO4LSIWZRXFJ5ORKAGTLWXGNOOPKLH repeated
17-01	1808	XORMLR	Mainsail 30 chr EAM
19-01	0809	XORZHP	Mainsail 30 chr EAM
19-01	1003	?7K 03 GO	Mainsail Skyking DNA
19-01	1102	XGR 02 AT	Mainsail Skyking DNA
19-01	1104	XGR 04 ?Q	Mainsail Skyking DNA
19-01	1151	J3T 51 UV	Mainsail Skyking DNA
19-01	1247	X4N5MS	Mainsail for ONION 10 30 chr EAM
19-01	1316	XOUUGZ	Mainsail 30 chr EAM
19-01	1449	UXE 49 MV	Mainsail Skyking DNA
19-01	1449	XOIYZB	Mainsail 30 chr EAM
19-01	1503	QFM 03 XI	Mainsail Skyking DNA
19-01	1503	XOIYZB	repeat
20-01	1157	74E 57 HX	Mainsail Skyking DNA
20-01	1203	WVI 03 XW	Mainsail Skyking DNA
20-01	1203	YOM 03 XW	Mainsail Skyking DNA
20-01	1245	UGH 45 ZH	Mainsail Skyking DNA
20-01	1323	UGI 23 ?Q	Mainsail Skyking DNA
20-01	1325	WIP 25 TS	Mainsail Skyking DNA
20-01	1430	XOXXA6	Mainsail 30 chr EAM
20-01	1449	XOE5DD	Mainsail 30 chr EAM
20-01	1453	XOPT2W	Mainsail 30 chr EAM
20-01	1500	XOPT2W	repeat
20-01	1502	XOE5DD	repeat
20-01	1505	XONROC	Mainsail 30 chr EAM
20-01	1507	XOXXA6	repeat
20-01	1510	XODBKW	Mainsail 30 chr EAM
20-01	1637	CYC 37 WM	Mainsail Skyking DNA
20-01	1732	XOT6AA	Mainsail 30 chr EAM
20-01	1803	XOLMBE	Mainsail 30 chr EAM
21-01	2001	XONS2O	
21-01	2011	XOAVAQ	
23-01	1635	X4QTPX	54 characters
23-01	1638	XOJXFN	30 characters
23-01	1700	XOPH3S	32 characters
23-01	1725	X4QTPX	54 characters
28-01	1802	H6QH7L	C6SUUT67AJZHSHEU5SRWLJBEZUQYURO... Missed the ending.
28-01	1802	H6BHYZ	BXB5DE7KVPHZZOK4TXEAXOV5 (30 characters)
29-01	1227	GY7 27 QA	Mainsail Skyking DNA
29-01	1347	H637WH	Mainsail for PROUDNAME 30 chr EAM
29-01	1417	H6XH5Y	Mainsail for PROUDNAME 30 chr EAM
29-01	1440	VSF 40 YE	Mainsail Skyking DNA
29-01	1701	H6MJGB	Mainsail for LAWSHIP or LORDSHIP 30 chr EAM
29-01	1704	VYO 04 QQ	Mainsail Skyking DNA
29-01	1717	H6L2W3	Mainsail 34 chr EAM
29-01	1737	H6V2LR	Mainsail for LAWSHIP or LORDSHIP 30 chr EAM
29-01	1842	XOZZGD	Mainsail 30 chr EAM
29-01	1902	H6PSBW	Mainsail for LAWSHIP or LORDSHIP 30 chr EAM

29-01	1910	H6YIIH	Mainsail for LAWSHIP or LORDSHIP 30 chr EAM
29-01	1927	H6SODB	Mainsail for LAWSHIP or LORDSHIP 30 chr EAM
29-01	2020	UFC 28 CR	Mainsail Skyking DNA
29-01	2108	2TQEQA	Mainsail 45 chr EAM
30-01	1330	CRO 30 SA	Mainsail Skyking DNA
30-01	1457	XOCT74	Mainsail 30 chr EAM
30-01	1504	XO7RHG	Mainsail 30 chr EAM
30-01	1509	XOTZUF	Mainsail 30 chr EAM
30-01	1519	XO4VAZ	Mainsail 30 chr EAM
30-01	1540	H6NNQJ	Mainsail for ANTONOV?? for HOLDER 30 chr EAM
30-01	1622	H6M4FZ	Mainsail 44 chr EAM
30-01	1631	H6DODQ	Mainsail 30 chr EAM
30-01	1640	H6EEXZ	Mainsail 30 chr EAM
30-01	1700	XONDVL	Mainsail 30 chr EAM
30-01	1706	XOKPL7	Mainsail 30 chr EAM
30-01	1734	H67B5P	Mainsail 30 chr EAM
30-01	1738	XOSIB4	Mainsail 30 chr EAM
30-01	1808	H67ZGF	Mainsail 30 for DARK LUCKY? chr EAM

RUSSIAN MILITARY TRANSCRIPTS

Logs supplied by amongst others Tony, Wolfgang, Les, Jim, JPL
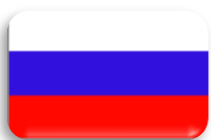
RMv/RNv/RNAv/RAv
Russian military stations
Frequency: various
Mode: USB / voice

RAv Russian Air Force

11360 kHz, 02-01, 1256 UTC
Korsar (Russian Air Force 6985th Aviation Base Pskov) w/78809 (IL-76MD) reporting 2 hrs flt, passed point (?SUGIR/SOGIR?) FL240 and fuel 22 tons.

11360 kHz, 13-01
1229   Korsar (Russian Air Force 6985th Aviation Base Pskov) calling 82037 (Russian AF AN-124) w/no response.
1253   Korsar w/86825 (IL-76MD). Korsar can't hear him well and requests they switch to " the other freq". They come up on 8847.0
1300   Korsar w/82037 (weak). Korsar asks they switch to " the other zone."
1445   Korsar w/82035 (Russian AF AN-124) w/wx for Mozdok. Simulcast on 8847.0 as well
1450   Korsar w/82037 passing wx for Mozdok. Simulcast on 8847.0. At 2030 82037 reports to Korsar that they have departed Mozdok and are at alt 2800 mtrs.At 2117 82037 advises Korsar they are at alt 2800 mtrs and have passed point LANIT.

8847 kHz, 13-01
1255   Korsar w/86825 reporting departure from Ivanovo, alt 2300 mtrs, fuel 40 tons and next is landing at Ulyanovsk.
1301   Korsar w/82037 reporting alt 2800 mtrs, fuel 102 tons and enroute to Mozdok.
1306   Korsar USB w/76714 (IL-76MD) reporting 1 hr into flt, alt 2700 ntrs & fuel 34 tons. Korsar relays flt info to Proselok (Russian Air Force 566th Military Transport Aviation Regiment)

RNAv Russian Naval Air Transport

11354 kHz, 13-01, 1146 UTC:
Priboj (Naval Air Transports Central Sector, Moscow) w/75205 (Russian Navy IL-18/20) reporting departure from Talagi at 1143 UTC and ETA landing at Severomorsk-3 at 1305 UTC. Fuel is 15,500 kgs.

11354 kHz, 14-01

1151   Priboj (Naval Air Transports Central Sector, Moscow) w/75336 (Russian Navy IL-18-weak) reporting passing point (missed) at 1151 UTC at alt 2500 mtrs. 75336 also tries to contact Monolog (Naval Air Transports Eastern Sector, Vladivostok) and Novator (Naval Air Transports Northern Sector, Murmansk) w/no response.

1158   Priboj: 1158 USB w/47535 (Russian Navy AN-26) reporting landing at Anapa at 1155 UTC w/fuel 3800 kgs

1202   Priboj & Kraket (Naval Air Transports Western Sector, Kaliningrad) w/47571 (Russian Navy AN-26) reporting departure from Gvardeskoye at 1137 UTC and ETA landing at Anapa 1232 UTC w/fuel 4500 kgs.

M32
Russian/CIS/Ukrainian
Military CW Stations

4108 kHz, 10-01, 1819 UTC:
QRU? K QRU? K
CK
RPT K
QTC K
QRV K (Both stations on this frequency)
LUKD 216 43 10 2210 216 = 150 = 11111
BK QR.. 2 K
QRQ RPT 2 K
OK QRX K
C RPT . K
216 43 10 2210 216 = 150 = 111
BK QXX QXX RPT

6832 kHz, 13-01, 2000 UTC:
KPDL DE LOSB
P4ZV DE LOSB
B3A5 DE 1UQU
8JKX DE W9G7
TSSO DE W9G7

6454 kHz, 17-01, 1330 UTC:
QLMQ DE XWZM
NW QSA?
OK R

7665 kHz, 17-01
1610   8ROC K
1613   G2VH DE CAMU
       CAMU DE G2VH
       (CAMU) QSA?
       (G2VH) QSA2
       (CAMU) R

7637.5 kHz, 26-01, 1441 UTC: KOLJ KOLJ => 5F message
7646 kHz, 27-01, 0521 UTC: 8BY9 DE F4QJ QTC 911 28 27 0906 911 = 115 = MMMMM
7660 kHz, 26-01, 0713 UTC: VX1J QTC 910 24 26 1110 910 = 893 = PPPPP
7665 kHz, 28-01, 1604 UTC: Simplex net V38H DE SVSA QSA
7673 kHz, 31-01, 0522 UTC: RW32 CZT CK RMW32 253 1 31 0910 = 999 = 54678 .....
7685 kHz, 27-01, 1605 UTC: Russian voice traffic after CIS-ACS/150/200 channel select on 7685 7687 7689 7691 then into CIS-59 OFDM traffic
7689 kHz, 28-01, 1617 UTC: USB/AT3004D/1440/3400 Crypto traffic after CIS-ACS and J3E/USB voice contact
7789 kHz, 31-01, 0515 UTC: 8L8V ZBS ZBW ZFF K

M32a
Russian Navy
Voyenno-Morskoy Flot Rossii

Lots of logs from Tony (Topol), Wolfgang, Peter

8345 kHz, 01-01

0005	VVV RIT DE RAL46 QSA? QTC
0006	VVV RCV DE RMGB QSA? QTC
0007	RMGB 514 17 1 0400 514 = SML FOR RJH45 RJE73 = 01001 99358 10348 22200
	35.8N 34.8E Hove too off Cyprus http://goo.gl/maps/MVm30
0226	VVV RMP DE RHL80 QSA?
0458	RHL80 QYT4 QSX 9756 OK?
0500	VVV RCV DE RFH70 QSA?
0502	RCV DE RFH70 QYT4 QSX 5372/7748
0521	VVV RIT DE RAL46 QSA? QTC
0522	RAL46 643 40 1 0915 643 = FOR RIT RIW =
	11111 78059 88226 04460 35795 78108 37123 04991 25277 95787
	30768 58425 44864 87667 09552 15218 17821 48416 36151 26266
	31838 03166 61813 54534 15708 69539 04998 03099 40886 18147
	43514 35786 71293 39609 04954 27740 14944 01037 = + RAL46
0541	RCV DE RHV42 QSA2
0543	RCV DE RHV42 OK QYT4 WRK
0603	VVV RCV DE RMGB QSA? QTC
0604	RMGB 701 19 1 1000 701 = SML FOR RJH45 RJE73 = 01061 99358 10348 22200
	35.8N 34.8E Hove too off Cyprus http://goo.gl/maps/MVm30
0608	VVV RIT DE RAL46 QSA? QTC
0609	VVV RIT DE RAL46 QSA? QTC
0611	RAL46 RPT
0614	RAL46 125 14 1 1005 125 = FOR RJH45 RJH74 = 01061 99717 10252 22273
	71.7N 25.2E heading NW @ 11-15kts http://goo.gl/maps/quFeK
0623	RMGB 13484 APATRINJZID 5919 ?467
0626	RFH70 13484 APATRINJZID 5919 ?467
0748	RAL46 NR 794 RPT AB 9(sic)
0749	RAL46 NR 794 RPT BN 9(sic)
0751	RAL46 NR 794 RPT 78
0752	RAL46 NR794 RPT 78
0754	RAL46 QSL 794
0842	VVV RIT DE RMMA QSA?
0843	RIT DE RMMA QYT9 QSA? RMMA OK AS3
0845	RIT DE RMMA QYT9 QSX 11084 OK? RMMA OK AS3
0848	RIT DE RMMA OK QYT9 QSX 9100
0853	RIT DE RMMA RPT
0856	RMMA (stepped on by) RMP DE RFH70 QSA?
0857	RMMA OK QYT9 QSX 4204 RMP DE RFH70 QYT4 QSX 10248 OK?
0903	RIT DE RMMA QYT9 QSA? RMMA OK AS3
0904	RIT DE RMMA QYT9 QLS
0919	RIT DE RMMA QYT9 QWH 9100 OK ?
0928	RMMA OK QYT9 QSX 11429 QWH 10356
0936	RMMA OK QYT9 QSX 6108
0937	RMMA OK QYT9 QSX 6308

3353 kHz, 02-01, 0010 UTC

RMUW: RUSSIAN NAVY TUG SHAKTER. RJE65 DE RMUW 538 17 2 0400 438 = SML FOR RJE73 RJH45 = 02001 99434 10398 41997 00504 10100 40180 54000 70110 80000 22200 00110 20000 02013 = + RMUW K

6319 kHz, 02-01, 0900 UTC

RIT: RUSSIAN NAVY HQ SEVEROMORSK. RLO RLO RLO DE RIT RIT QTC 895 34 2 1257 895 = RADIOPROGNOZ 02014 60013 41412

8345 kHz, 01-01

0006   RMGB: RUSSIAN NAVY TANKER IMAN. RCV DE RMGB 249 17 2 0400 249 = SML FOR RJH45 RJE73 = 02001 99358 10348
41998 01802 10120 40200 54005 70200 80000 22200 00160 20000 02013 = + RMGB K

0603   RMGB: RUSSIAN NAVY TANKER IMAN. RCV DE RMGB 504 19 2 1000 504 = SML FOR RJH45 RJE73 = 02061 99358 10348
41597 60707 10150 40210 54010 70301 82210 22200 00160 20101 88000 80000 02015 = + RMGB K

1220   RAL46: RUSSIAN NAVY TANKER VYAZMA.. RIT DE RAL46 283 18 3 1611 283 = FOR RJH74 RJH45 = 02121 99690 10123
41597 81610 10050 40983 57015 70222 887// 22262 20305 3//// 4//// 5//// 02015 = + RAL46 K = + RAL46 K

12464 kHz, 02-01

1205   RMGB: RUSSIAN NAVY TANKER IMAN. RCV DE RMGB 215 19 2 1600 215 = FOR RJH45 RJE73 = 02121 99358 10348 41597
60906 10170 40200 54010 70212 86210 22200 00160 20101 88000 80000 02015 = + RMGB K

RIW DE RCRE AS3 K OK QYT4 QSX 8678/11703 QWH 8338/12371 FM RAA K - RCRE 654 29 2 1035 654 = FM RAA = 85161
11886 48156 .....

RAL46: RUSSIAN NAVY TANKER VYAZMA. RIW DE RAL46 219 40 2 0903 219 = FOR RIT RIW = 11111 85483 10743 79667 ....

RAL46: RUSSIAN NAVY TANKER VYAZMA. RIW DE RAL46 218 16 2 1005 218 = FOR RJH45 RJH74 = 02061 99696 10145
41/97 /1707 10040 40013 56040 70222 8//// 22253 2//// 3//// 02013 = + RAL46 K

0603   RMGB: RUSSIAN NAVY TANKER IMAN. RCV DE RMGB 15 19 2 1600 215 = SML FOR RJH45 RJE73 = 02121 99358 10348
41597 60906 10270 40200 54010 70211 86210 22200 00160 20101 88000 80000 02015 = + RMGB K

3353 kHz, 03-01, 0008 UTC

RMUW: RUSSIAN NAVY TUG SHAKTER. RJE65 DE RMUW 437 17 3 0400 437 = SML FOR RJE73 RJH45 = 03001 99434 10398 41697
10203 10070 40470 54000 70200 81001 22200 00110 20000 03013 = + RMUW K

8345 kHz, 03-01

1222   RAL46 261 18 3 1615 261 = FOR RJH45 RJH74 = 03121 99663 10076 22252
66.3N 07.6E heading SW @ 6-10kts http://goo.gl/maps/WqvrW

1802   VVV RCV DE RMGB QSA? QTC

1803   RMGB 702 18 3 2200 702 = SML FOR RJH45 RJE73 = 03181 99353 10354 22200
35.3N 35.4E Hove to   http://goo.gl/maps/ELVsp

1806   VVV RCV DE RFH70 QSA? (sets up QYT4)

1932   RMGB 34475 GOLDMANIT 0215 8572

3395.5 kHz, 04-01

0240   (part way)RPT FOR RJE65

0241   RCV QSL 418 RMUW OK QRV

8345 kHz, 04-01

0501   VVV RCV DE RFH70 QSA?

0508   RCV DE RFH70 QYT4 QSX 6452/7748

1757   VVV RIT DE RMMA QSA?

1758   RIT DE RMMA QYT9 QSX 6977 OK? RMMA OK AS2. RIT DE RMMA. RMMA RK

1802   VVV RCV DE RMGB QSA? QTC

1803   RMGB 708 17 4 22 708 = SML FOR RJH45 RJE73 = 04181 99358 10348 22200

1809   RIT DE RMMA QYT9 QSA?

1901   RCV DE RJL99 QSA2

1902   RCV DE RJL99 RPT

1903   RCV DE RJL99 OK QRR3 QDW 5341

8345 kHz, 05-01

0003   VVV RCV DE RMGB QSA? QTC

0004   RMGB 203 17 5 0400 203 = SML FOR RJH45 RJE73 = 05001 99358 10348 22200

1150   RMP DE RAL46 QSA3 QRV

1156   RAL46 RPT PB AL

1157   RAL46 QSL 763 RAL46 QTC

1159   RAL46 454 42 5 1554 454 = FOR RIT RIW RMP = 11111 13420 ...... 90725 05038 = + RAL46

1211   RAL46 629 17 5 1605 629 = FOR RJH45 RJD38 = 05121 99608 10032 22231
60.8N 03.2E heading SE @ 1-5kts

1218   RIT DE RAL46 QRV

1219   RAL46 QSL 863

1226   RMP DE RHC86 QSA3 QSA?
1228   RMP DE RHC86 OK QSU1 QSX 4146 QWH 8204
1232   VVV RIT DE RAL46 QSA? QTC
1233   RAL46 721 67 5 1616 721 = FOR RIT RIW RMP = 11111 81364 ..... 12639 05063 = + RAL46
1320   RMP DE RHC86
1321   RMP DE RHC86 OK QYT4
1322   RMP DE RHC86 OK QRR3 QDW 4825
1323   VVV RMP DE RAL46 QSA? QTC
1325   RAL46 871 33 5 1717 871 = FOR RIW RIT RMP = 11111 46292 ..... 71983 05029 = + RAL46
1415   VVV RIT DE RMMA QSA?
1417   RIT DE RMMA QYT9 QSA
1418   RIT DE RMMA QYT9 QSX 10356 OK?
1518   VVV RMP DE RAL46 QSA? QTC
1521   RAL46 618 17 5 1915 618 = FOR RJH45 RJD38 = 05151 99605 10032 22231
        60.5N 03.2E heading SE @ 1-5kts
1549   VVV RCV DE RHL80 QSA?
1718   VVV RCV DE RMGB QSA? QTC
1719   RMGB 781 30 5 2115 781 = 92445 31305 ..... 06334 05028 = + RMGB
1740   VVV RCV DE RHL80 QSA?
1746   RCV DE RHL80 QYT4 QSX 6841
1804   VVV RCV DE RMGB QSA? QTC
1814   RMGB 812 17 5 2200 812 = SML FOR RJH45 RJE73 = 05181 99358 10348 22200
1831   VVV RCV DE RFH80 QSA1

8345 kHz, 06-01
0004   VVV RCV DE RMGB QSA? QTC
0005   RMGB 211 17 6 0400 211 = SML FOR RJH45 RJE73 = 06001 99352 10353 22232
        35.2N 35.3E heading SE @ 6-10kts http://goo.gl/maps/52TCo
0617   RCV DE RHL80
0618   0618z RMP DE RAL46 QSA? QTC
0620   RAL46 183 15 6 1015 183 = FOR RJH45 RJD38 = 06061 99591 10036 22231
        59.1N 03.6E heading SE @ 1-5kts http://goo.gl/maps/Y5D4i
0639   RIT DE RMMA QSA1
0641   RIT DE RMMA QYT4 QSA4
0728   VVV RIT DE RHI99 QSA?
0729   RIT DE RHI99 QSA2 QYT4?

8345 kHz, 07-01
1222   VVV RMP DE RAL46 QSA? QTC
1223   RAL46 352 66 7 1611 352 = FOR RIW RIT RMP =
        11111 61011 05738 63861 03862 91815 02289 80860 70132 02728
        87596 88312 88936 83383 57741 31969 98927 22273 72748 17955
        41969 24098 42244 83522 34817 57607 11178 95113 90447 21291
        21463 48018 57331 63494 68388 36129 67721 64765 29807 77721
        04741 28961 14911 79239 97145 63931 43549 40317 65264 97719
        41534 94154 82439 82785 90982 50208 66447 46595 03127 46353
        46289 03193 07062 = + RAL46
1229   RAL46 OK QTC
1230   RAL46 433 17 7 1613 433 = FOR RJH45 RJD38 = 07121 99560 10038 22241
        56.0N 03.8E heading S @ 1-5kts http://goo.gl/maps/JqOcn
1231   VVV RMP DE RHI99 QSA?

8345 kHz, 08-01
1725   RIT DE RMMA QYT9 QSA2
1728   RIT DE RMMA QYT9 QSX 16948 OK?
1729   RIT DE RMMA QYT9 QSX 16948 OK?
1734   RIT DE RMMA QYT9 QSX 13054 OK?
1744   RIT DE RMMA QYT9 QSX 5444 OK?
1750   RIT DE RMMA QYT9 QSX 6977 OK?
1800   VVV RCV DE RMGB QSA? QTC

```
1827    VVV RCV DE RHL80 QSA?
1828    RCV DE RHL80 QYT4 QSX 5466 OK?
1832    RHL80 OK QYT4 QWH 6307
1946    VVV RIT DE RMMA QSA?
1952    RIT DE RMMA QYT9 QSA?
1955    RIT DE RMMA QYT9 QSX 6238
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12464 kHz, 09-01

```
1220    RAL46 113 70 9 1613 113 = FOR RMP RIW RIT = (stopped)
1227    RAL46
        11111 746/4 6505? 48573 76582 64773 68554 45293 27116 31246
        19425 31505 76650 77437 41693 69970 56387 44020 41673 61219
        70015 64597 92060 30195 57320 06161 07613 03144 72510 78864
        85697 15201 53331 91660 66261 67675 11586 10309 72658 56918
        22678 38124 94707 17458 40902 31238 79644 14134 68932 66292
        20635 27047 65840 62221 19562 13396 57503 85618 55939 62087
        80772 08968 01421 89711 90384 53173 09066 (no = + RAL46)
1248    RAL46 OK QTC
1255    RMP DE RAL46 255 17 9 1615 255 = FOR RJH45 RJD38 = 09121 99505 70002 22252
        50.5N 00.2W heading SW @ 6-10kts http://goo.gl/maps/XfScV
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5018 kHz, 09-01

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0507    RJP24 DE RJE65 QSA? QRV
0507    RJE65 DE RJP24 QTC
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8345 kHz, 10-01

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0009    RMGB 10001 99352 10355 22200 (rest too weak to copy)
0023    VVV RCV DE RHL80 QSA?
0024    RCV DE RHL80 QYT4 QSA?
0152    RIT DE RMMA QYT9 QSA?
0153    RMMA OK AS2
0205    RIT DE RMMA QYT9 QSX 6977 OK?
0235    VVV RCV DE RHL80 QSA?
0236    RCV DE RHL80 QYT4 QSX 5736 OK?
0244    RHL80 OK QYT4 QWH 4153
0251    RCV DE RHL80 QYT4 QSX 5083 OK?
0316    RCV DE RHL80 QYT4 QSX 5393 OK?
0511    VVV RIT DE RMMA QSA?
0514    RIT DE RMMA QYT9 QSA?
0530    RIT DE RMMA OK QYT4 QSX 4158 QWH 10308
0603    VVV RCV DE RMGB QSA? QTC
0604    RMGB: RUSSIAN NAVY TANKER  IMAN. RCV DE RMGB 211 19 10 1000 211  = SML FOR RJH45 RJE73 = 100061 99352
        10355 41598 50707 10135 40165 54005 70211 85130 22200 00160 20201 88000 80000 10015 = + RMGB K
        35.2N 35.5E Hove to http://goo.gl/maps/Ktzcg
0607    RIT DE RMMA QYT4 QSA3 K
0609    RAL46: RUSSIAN NAVY TANKER VYAZMA. RMP DE RAL46 QSA? QTC K RIT DE RAL46 QSA? QTC K 294 17 10 1003 294 = FOR
        RJH45 RJD38 = 10061 99494 70044 41/98   RPT K OK QDW 12464 K
0615    RAL46: RUSSIAN NAVY TANKER VYAZMA. RIT DE RAL46 QSA? QTC K 0627Z RCV DE RAL46 QSA? QTC K 294 17 10 1003 294
        = FOR RJH45 RJD38 = 10061 99494 70044 41/98 .....
0857    RMP DE RAL46 QSA2 QRV
0904    RAL46 NR 716 RPT 3 4 35
0905    RAL46 QSL 716
0913    VVV RMP DE RAL46 QSA? QTC
0921    RAL46 139 34 10 1311 139 = FOR RMP RIW RIT =
        11111 69226 75205 46823 27073 76481 07282 37109 88037 53844
        47997 37777 90648 53834 55508 35001 54704 26139 28794 78476
        24027 61999 56007 19275 38192 77985 04262 13921 81906 60266
        10030 = + RAL46
0957    RMP DE RGX80 QSA4
0958    RMP DE RGX80 OK QAP
```

1003   RMP DE RGX80 (faded)

1004   VVV RMP DE RAL46 QSA? QTC

1005   RAL46 515 36 10 14102 515 = FOR RIT RIW RCV = 11111 02847 81546 05524 68910
        06431 32205 49960 81128 21820 28167 92561 94268 29894 74272
        05575 43881 17816 29860 40643 60413 03942 86271 00035 14256
        26632 29290 02788 67361 46837 66849 64758 10032 = + RAL46

1012   RMP DE RGX80 OK QSU1 SK

1014   RMP DE RGX80 OK QYT4 QSX 4258 QWH 6255

1019   VVV RIT DE RMXV QSA?

1033   RMP DE RGX80 OK QYT4?

1034   RMP DE RGX80 OK QRR3 QDW 4825

1722   VVV RCV DE RFH70 QSA?

1724   RCV DE RFH70 QYT4 QSA?

1802   VVV RCV DE RMGB QSA? QTC

1804   VVV RIT DE RAL46 QSA? QTC

1805   RMGB 944 17 10 2200 944 = SML FOR RJH45 RJE73 = 10181 99351 10355 22200
        35.1N 35.5E

1812   RAL46 341 17 10 2202 341 = FOR RJH45 RJH74 = 10181 99479 70065 22253
        47.9N 06.5W heading SW @ 11-15kts   http://goo.gl/maps/AqrMW

12464 kHz, 10-01

0908   RIW DE RGR70 QSA? K

0915   RFH70: RUSSIAN NAVY DG SMETLIVYJ (810). RCV DE RFH70 QSA? K QYT4 QWH 14451 QSX 13044/15544 K
        RCV DE RHL80 QSA? K QSA3 K QYT4 QSX 5312 K

1205   RMGB: RUSSIAN NAVY TANKER IMAN. RCV DE RMGB 143 19 10 1600 143 = SML FOR RJH45 RJE73 = 10121 99352 10356
        41698 53203 10150 40170 005 70211 85130 22200 00160 20401 88000 80000 10015 = + RMGB K

1215   RIW DE RJL99 QRT? K OK QAP K

1223   VVV RIW DE RAL46 QSA? QTC

1225   RAL46 582 31 10 1613 582 = FOR RIT RIW =
        11111 06975 08777 87471 52741 34385 17590 53128 96040 59339
        96527 72009 24472 56214 12794 84361 37727 96296 38121 24863
        67404 15389 75326 81480 91158 15966 89538 48064 10028 = + RAL46

1235   RAL46: RUSSIAN NAVY TANKER VYAZMA. RIW DE RAL46 389 17 10 1618 389 = FOR RJH45 RJH74 = 10121 99489 70058
        41498 72112 10120 40123 57005 70322 84721 222.. 3//// 4//// 10014 = + RAL46 K

1238   RAL46 431 44 10 1618 = FOR RIT RIW =
        11111 22019 15508 52676 82940 38759 49307 20399 12505 47633
        14061 17106 87145 65258 17298 51320 13916 68354 55316 04639
        76651 15860 03511 19255 13688 83711 69293 55028 11179 67955
        43133 23285 94368 90239 12477 78680 87603 56121 33130 21247
        37920 10041 = + RAL46

1238   RAL46 389 17 10 1618 381 = FOR RJH45 RJH74 = 10121 99489 70058 22253
        48.9N 05.8W heading SW @ 11-15kts   http://goo.gl/maps/MFyF7

1245   RAL46 614 36 10 1632 614 = FOR RIT RIW =
        11111 96563 27979 02518 94714 36910 36207 57347 29386 60785
        72787 42712 31770 12767 54330 21372 27018 53894 87897 27666
        24265 61781 95650 77046 00358 01216 61452 40410 68338 69170
        93205 76425 62782 10033 = + RAL46

1250   VVV RIW DE RMMA QSA?

14556 kHz, 11-01, 1342 UTC

RMMA DE RIW K. RIW OK QYT9 QWH 16958 K

8345 kHz, 13-01, 2009 UTC

RIW DE RMMA QYT9 QSA 3 K

RIW DE RMMA QYT9 QSX 8657OK? K

DE RMMA RPT K

DE RMMA R K

RIW DE RMMA K

RMMA RPT K

RMMA QYT9 QSA4 K

12464 kHz, 17-01

1203   VVV RCV DE RMGB QSA? QTC
1204   RMGB 412 19 17 1600 412 = SML FOR RJH45 RJE73 = 17121 99351 10356 22200
1225   RCV DE RGZ59 QSA2
1228   RGZ59 OK QRR3 WRK

8345 kHz, 17-01

1737   RCV DE RFH70 OK QYT4 QWH 5170
1745   RFH70 OK QYT4 QWH 6302
1803   VVV RCV DE RMGB QSA? QTC
1804   RMGB 156 17 17 2200 156 = SML FOR RJH45 RJE73 = 17181 99351 10356 22200

8345 kHz, 18-01

1708   VVV RCV DE RIR96 QSA?
1712   RCV DE RIR96 QYT4 QSX 4943
1729   RCV DE RIR96 QSA? QTC
1802   VVV RCV DE RMGB QSA? QTC

5770 kHz, 17-01, 1656 UTC:

RGY2 RHK6 DE RWI2 QSA?

7673 kHz, 17-01

1618   VVVVVVVV RMW44 DE RMW32 ZSA?
1619   RMW32 ZSA4 ZZT?
1621   RMW32 OK ZZT 103

3395.5 kHz, 20-01

0015   RMGB: RUSSIAN NAVY TANKER IMAN. RCV DE RMGB 550 17 20 2200 550 = SML FOR RJH45 RJE73 = 20181 99351 10357
        41598 ..... 10150 40210 54000 8... 22200 00160 20000 20013 = + RMGB +
1814   RCV DE REL5 324 16 20 2210 324 = FOR RJH45 RJE73 RJE65 = 20181 99445 10398 43/96 90907 10100 40159 54000 8////
22200 00100 2//// 20012 = + REL5 K

8345 kHz, 20-01

0550   RIR96: RUSSIAN NAVY LS AZOV (151). RCV DE RIR96 633 16 20 0940 633 = FOR RJH45 RJE73 = 20061 99358 10311 41598
        4180 6 10140 40200 51000 70100 84080 22222 00120 20102 20013 = + RIR96 K
0603   RMGB: RUSSIAN NAVY TANKER IMAN. RCV DE RMGB 191 19 20 1000 191 = SML FOR RJH45 RJE73 = 20061 99351 10355
        41598 41605 10155 40225 54015 70200 84700 22200 00160 20101 88000 80000 20015 = + RMGB K

7566 kHz, 29-01, 0635 UTC: RHL80 RHL80 RHL80 DE RCV QSA3 K
3353 kHz, 30-01, 0040 UTC: rje65 de rmja 591 17 30 0432 591 = sml for rjh45 rje73 = 30001 99436 10.97 41/98 81511 10091
        40073 14000 70222 88300 22200 00098 2//// 30013 = + rmja k
3395.5 kHz, 30-01, 0024 UTC: rcv de rmew 410 16 30 0420 410 = sml for rje73 rjh45 = 30001 99434 10398 41/96 91306 10062
        40129 52004 72162 22200 00100 2//// 30012 = + rmew k
3395.5 kHz, 30-01, 0002 UTC: RIR96: Rus Navy LS Azov (151) RUS 0002 CW rcv de rir96 527 14 30 0352 527 = for rje73 rjh45 =
        30001 99436 10337 41596 ... 22283 .... 30011 = + rir96 k
3353 kHz, 29-01, 0035 UTC: RMJA: KIL-158. rje65 de rmja 445 17 29 0430 445 = sml for rjh45 rje73 = 29001 99347 10397
        41/98 81408 10081 40061 51003 70222 88300 22200 00191 2//// 29013 = + rmja k

7763 kHz, 31-01

1600   RIR98 DE RCV
0450   RCV DE RIR98 QTC

7786 kHz, 31-01

0611   simplex frequency VVV RHY73 DE RAL65 QSA?
0611   RAL65 DE RHY73 QSA 2 QRV K
1624   RMGB DE RBDE QSA? QTC
1625   RBDE DE RMGB

M32b
Russian Naval Aviation
Aviatsiya Voenno-morskogo Flota Rossii

8816 kHz, 20-01

0815   RJF94 RCB DE 85280 QTO 0745 QRD XLLV XMKK QAH 5700 QBD 0500 K - QAH 5700 QBD 0400 QAL XLLV 1010 K - QQM XLLV 1011 SK

1310   RJF94 RCB DE 85280 QTO 1250 QRD XUMO XLLV QAH 5700 QBD 0500 K - QAH 5700 QBD 0400 QAL XUMO 1325 K - QQM XUMO 1330 SK

8816 kHz, 22-01

1025   RCB DE 85280 QTO 1010 QRD XUMO XRKA QAH 5500 QBD 0500 K QAH 6100 QBD 0400 QAL XUMO 1300 K QAH 5500 QBD 0300 QAL XUMO 1305 K QQM XUMO 1250 SK

1445   RJF94 RCB DE 85280 QTO 1440 QRD XLMG XUMO QAH 5800 QBD 0500 K QAH 5800 QBD 0400 QAL XLMG 1720 K QAH 5800 QBD 0300 QAL XLMG 1745 K

8816 kHz, 29-01

1025   RJF94 RCB DE 93002 QTO 1002 QRD XUMO XLLV QAH 5200 QBD 0440 K - QAY XUEM 1120 QAH 5200 QAL XUMO 1210 QBD 0340 K - QQM XUMO 1202 SK

0558   RJF94 RCB DE 93002 QTO 0530 QRD XLLV XMKK QAH 5200 QBD 0500 K - QTH 5942 2411 QTR 0710 QAH 5200 QAL XLLV 0805 QBD 0330 K - QQM XLLV 0809 SK

M32c
Russian Air Force
Voyenno-vozdushnye sily Rossii

8112 kHz, 30-01

1200, 1220, 1240, 1522: Marker "W"

1211   LGXF DE IWV4 K. IWV4 QRV K. RPT 2 K. IWV4 = 571 226 398 C? K. IWV4 = 571 226 399 C? K

1540   Markers "G" and "W"

1600   Marker "G"

1612   Marker "V"

1620, 1640: Marker "G"

1700   Markers "G" and "W"

Soviet spy trawler "Tseriba"
Picture by Ary Boender

LOGS SECTION

enigma	date	UTC	day	frequency	remarks	mode	contributor
---	5-1-2014	1750	Sun	3326	Unid 10-min net: U34D //4112 kHz	CW	(AtB)
---	5-1-2014	1750	Sun	4112	Unid 10-min net: U34D //3326 kHz	CW	(AtB)
---	7-1-2014	1658	Tue	3326	Unid 10-min net: U34D //4116 kHz	CW	(JPL-HK)
---	7-1-2014	1658	Tue	4116	Unid 10-min net: U34D //3326 kHz	CW	(JPL-HK)
---	7-1-2014	1828	Tue	3326	Unid 10-min net: U34D //4112 kHz	CW	(JPL-FNL)
---	7-1-2014	1828	Tue	4112	Unid 10-min net: U34D //3326 kHz	CW	(JPL-FNL)
---	8-1-2014	1515	Wed	14340	Unid station YL/EE. 9EE. 9EE. 9EE. 9GG. 11622061988. Declination. Declination. Declination. 42. 42. 42. Attention. 99999. End of transmission. Goodbye.	USB	(RWO)
---	8-1-2014	1545	Wed	14340	Unid station YL/EE	USB	(RWO)
---	8-1-2014	1600	Wed	14340	Unid station YL/EE. Message(3x) 18F(4x) Message 914(2x) Declination(3x) 91(3x) Attention 55555. End of transmission. Goodbye.	USB	(RWO)
---	8-1-2014	2300	Wed	10115	Unid station YL/EE	USB	(RWO)
---	9-1-2014	1515	Thu	14340	Unid station YL/EE. Got just the end "End of message. Goodbye"	USB	(AB)
---	18-1-2014	0813	Sat	16720	Unid ends with 12341 92683 14..2 (ContÆd) QRU QRU SK SK	CW	(JPL-Sib)
---	22-1-2014	1852	Wed	3326	Unid 10-mins net: U34D //4112 kHz	CW	(JPL-Sib)
---	22-1-2014	1852	Wed	4112	Unid 10-mins net: U34D //3326 kHz	CW	(JPL-Sib)
---	22-1-2014	2156	Wed	3326	Unid 10-mins net: U34D //4112 kHz	CW	(JPL-Sib)
---	22-1-2014	2156	Wed	4112	Unid 10-mins net: U34D //3326 kHz	CW	(JPL-Sib)
---	24-1-2014	1544	Fri	5770	71.76 4..4 654.. 50357 892.. = VVV VVV 24. = ..21. 78.. 122.. 19 AR (distorted signal)	CW	(JPL-FNL)
---	24-1-2014	1820	Fri	3326	Unid 10-mins net: U34D //4112 kHz	CW	(JPL-Sib)
---	24-1-2014	1820	Fri	4112	Unid 10-mins net: U34D //3326 kHz	CW	(JPL-Sib)
---	24-1-2014	2055	Fri	3326	Unid 10-mins net: U34D //4112 kHz	CW	(JPL-Sib)
---	24-1-2014	2055	Fri	4112	Unid 10-mins net: U34D //3326 kHz	CW	(JPL-Sib)
---	26-1-2014	1500	Sun	4112	unid 10-mins net: U34D	CW	(Token)
CZE	7-1-2014	0715	Tue	6822.5	Czech diplo (tentative) clg OL1A	Pactor-II/100Bd/200Hz	(KK)
CZE	18-1-2014	0715	Sat	8126.6	Presumed Czech diplo	Pactor II/100/200 crypto	(PPA)
DPRK	4-1-2014	0220	Sat	16320	North Korean diplo	DPRK-ARQ 600/600 LSB	(Dan)
DPRK	4-1-2014	0800	Sat	16320	North Korean diplo	DPRK-ARQ 600/600 LSB	(Dan)
DPRK	7-1-2014	2300	Tue	16003	North Korean diplo	DPRK-ARQ 600/600 LSB	(Dan)
E06	2-1-2014	2031	Thu	4836	321 594 20 37839 35787 18273 60187 16202 95625 31691 52538 61025 22567 93296 67423 40968 16891 63781 34820 04842 60491 75924 04594 594 20 00000	USB	(AB/RWO)
E06	3-1-2014	2130	Fri	4760	472 691 20 81249 09517 93028 65982 25187 61573 36043 39625 10466 81511 23803 48616 62374 28657 54375 71483 69205 52381 42427 89636 691 20 00000	USB	(MPJ)
E06	6-1-2014	0904	Mon	14677		AM	(Lio)
E06	16-1-2014	2030	Thu	4836	321 594 20	USB	(toto-NL)
E06	17-1-2014	2130	Fri	4760	472 691 20 ...	USB	(toto/BS3)
E07	1-1-2014	2000	Wed	6982	981 981 981 000	CW	(HFD)
E07	1-1-2014	2020	Wed	5882	981 918 918 000	CW	(HFD)
E07	2-1-2014	2110	Thu	6777	744 744 744 000	CW	(HFD/MPJ)
E07	2-1-2014	2130	Thu	5447	744 744 744 000	CW	(HFD)
E07	2-1-2014	2130	Thu	5449	744 744 744 000	USB	(MPJ)
E07	6-1-2014	2040	Mon	5182	981 1 ...	USB	(MPJ)
E07	10-1-2014	1610	Fri	7632	688 688 688 000	USB	(Topol)
E07	10-1-2014	1630	Fri	6832	688 688 688 000	USB	(Topol)
E07	19-1-2014	1800	Sun	8194	i.p. ... 88107 84785 00871 33236 ...	USB	(07c)
E07	22-1-2014	1820	Wed	6794	172	CW	(HFD)
E07	24-1-2014	1630	Fri	6832	688 688 688 000	USB	(PPA)
E07	31-1-2014	1610	Fri	7632	688 688 688 000	AM	(PPA)
E07a	1-1-2014	2100	Wed	5864	815 815 815 000	CW	(HFD)
E07a	1-1-2014	2120	Wed	5164	815 815 815 000	CW	(HFD)
E07a	2-1-2014	0530	Thu	5146	188 188 188 000	CW	(HFD)
E07a	2-1-2014	0550	Thu	5846	188 188 188 000	CW	(HFD)

enigma	date	UTC	day	frequency	remarks	mode	contributor
E07a	3-1-2014	1610	Fri	7632	688 688 688 000	CW	(HFD)
E07a	3-1-2014	1630	Fri	6832	688 688 688 000	CW	(HFD)
E07a	4-1-2014	0900	Sat	11123		USB	(Go)
E07a	4-1-2014	0920	Sat	12123		USB	(Go)
E07a	8-1-2014	2100	Wed	5864	815 815 815 000	USB	(MPJ)
E07a	11-1-2014	0900	Sat	11123	114 114 114 000	CW	(HFD)
E07a	11-1-2014	0920	Sat	12123	114 0	CW	(HFD)
E07a	15-1-2014	2120	Wed	5164	preceeded by 5864 on the hour	USB	(toto-NL)
E07a	17-1-2014	1610	Fri	7632	688 1 14430 7871 81 20253 16924 64156 ... 10500 12224 77266 000 000	USB	(Topol)
E07a	17-1-2014	1630	Fri	6832	688 1 14430 7871 81 20253 16924 64156 ... 10500 12224 77266 000 000	USB	(Topol)
E07a	17-1-2014	1650	Fri	5832	688 1 14430 7871 81 20253 16924 64156 ... 10500 12224 77266 000 000	USB	(Topol)
E07a	31-1-2014	1630	Fri	6832	688/00	USB	(Topol)
E11	2-1-2014	0317	Thu	5779	253/00	USB	(JX50)
E11	2-1-2014	1730	Thu	5082	416/00	USB	(MPJ)
E11	3-1-2014	0833	Fri	9446	649/00	USB	(PPA)
E11	3-1-2014	1712	Fri	6923	953/21 attention ...	USB	(PPA)
E11	4-1-2014	1445	Sat	4441	287/00	USB	(AB/Go)
E11	5-1-2014	1540	Sun	15632	228/00	USB	(MPJ)
E11	6-1-2014	0450	Mon	5082	410/33	USB	(Go)
E11	6-1-2014	0820	Mon	8088	438/00	USB	(Go)
E11	6-1-2014	1540	Mon	15632	228/00	USB	(GHn)
E11	6-1-2014	1710	Mon	6923	953/21	USB	(Go)
E11	7-1-2014	0645	Tue	7840	517/00	USB	(Go)
E11	7-1-2014	1045	Tue	8091	469/00	USB	(Go)
E11	7-1-2014	1300	Tue	14666	133/00	USB	(MPJ/Go)
E11	8-1-2014	0900	Wed	9446	534/00	USB	(Go)
E11	8-1-2014	0931	Wed	9948	270/00	USB	(IK)
E11	8-1-2014	1045	Wed	8091	469/00	USB	(Go)
E11	8-1-2014	1155	Wed	15632	718/00	USB	(To-pol/Go/MPJ)
E11	8-1-2014	1300	Wed	14666	133/00	USB	(MPJ)
E11	9-1-2014	1155	Thu	15632	718/00	USB	(Topol)
E11	9-1-2014	1155		15632	718/00	USB	(MPJ)
E11	13-1-2014	1540	Mon	15632	228/00	USB	(Topol)
E11	19-1-2014	1540	Sun	15632	228/00	USB	(GHn)
E11	20-1-2014	0450	Mon	5082	416/00	CW	(HFD)
E11	20-1-2014	0600	Mon	4505	null msg: 262/00	USB	(BS3)
E11	20-1-2014	1540	Mon	15632	228/00	USB	(Topol)
E11	24-1-2014	2000	Fri	6304	576/00	CW	(HFD)
E11	25-1-2014	1445	Sat	4441	287/00	USB	(Topol)
E11	26-1-2014	1540	Sun	15632	228/00	USB	(toto-NL)
E11	27-1-2014	0450	Mon	5082	416/00	USB	(toto-NL)
E11	27-1-2014	1115	Mon	14410		USB	(07c)
E11	27-1-2014	1540	Mon	15632	228/00	USB	(toto-NL)
E11	27-1-2014	1710	Mon	6923	945...	USB	(BCI)
E11	29-1-2014	1300	Wed	14666	133/00	USB	(toto-NL)
E11	29-1-2014	1445	Wed	4441	287/00	CW	(HFD/toto)
E11	30-1-2014	1155	Thu	15632	718/00	USB	(Topol)
E11	30-1-2014	1728	Thu	5082	416/00	USB	(BCI/Topol)
E11a	4-1-2014	1400	Sat	10690	981/10 attention 99205 19678 29745 21473 74065 78553 26427 68088 79392 60254 attention, msg rptd, out	USB	(AB/Go)
E11a	4-1-2014	1810	Sat	10213		USB	(Go)
E11a	6-1-2014	1110	Mon	14410	952/31	USB	(Go)
E11a	6-1-2014	1540	Mon	15632	228/32 attention 90998 29500 43494 85465 26805 ... 98957 38143 69698 37284 03000	USB	(MPJ)
E11a	6-1-2014	1710	Mon	6923	953/21 attention 75362 83237 43098 19324 80438 ... 36522 09021 67451 91610 86318	USB	(MPJ)
E11a	7-1-2014	1400	Tue	10690	985/10 Attention 53749 68163 22192 57169 37396 96337 29966 58491 34546 02266 Attention, rpt msg, out	USB	(Topol/Go)
E11a	9-1-2014	1730	Thu	5082	410/33 attention 03956 33761 00540 99004 58041 ... 51311 13117 20310 58908 79215	USB	(MPJ)
E11a	10-1-2014	1710	Fri	6923	957/25 attention 10246 01313 50846 36872 91545 ... 77668 41760 90905 69029 42465	USB	(MPJ/Topol)

enigma	date	UTC	day	frequency	remarks	mode	contributor
E11a	10-1-2014	1710	Fri	6923	957 25 Attention 10246 01313 50846 … 90905 69029 42465 Attention, rpt msg, out	USB	(Topol)
E11a	11-1-2014	1810	Sat	10213	985/10 Attention 80484 44276 53860 87598 66325 40333 04918 80968 79891 97706 Attention, rpt msg, out	USB	(07c)
E11a	12-1-2014	1540	Sun	15632	228/32 attention ….	USB	(GHn)
E11a	13-1-2014	1710	Mon	6923	951/27 attention 14350 35126 40137 … 71842 24444 85849 Attention, msg rptd, Out	USB	(Topol)
E11a	14-1-2014	1810	Tue	10213	vy weak	CW	(HFD)
E11a	15-1-2014	1155	Wed	15632		USB	(toto-NL)
E11a	17-1-2014	1710	Fri	6923	959 20 Attention 68593 63989 43718 … 94909 86441 12733 Attention, rpt msg, out	USB	(Topol/07c)
E11a	18-1-2014	1400	Sat	10690	985 10 Attention 21691 54353 13430 … 03695 83971 30795 Attention, rpt msg, out	USB	(Topol)
E11a	20-1-2014	1710	Mon	6923	955/30 Attention 84357 74044 51332 … 70199 30934 22379 Attention, rpt msg, out	USB	(Topol)
E11a	21-1-2014	1810	Tue	10213	986/10	USB	(toto-NL)
E11a	24-1-2014	1710	Fri	6923	956/30 attention 5FGs	USB	(PPA)
E11a	25-1-2014	1400	Sat	10690	987/10 94795 91295 30811 35851 81655 04235 09265 47412 21679 03275	USB	(toto-NL)
E11a	25-1-2014	1810	Sat	10213	EE, YL, 982/10 5FGs	USB	
E11a	25-1-2014	1810	Sat	10213	982/10 Attention 84829 04139 07713 80830 68142 06896 71627 72380 90130 37828 Attention, rpt grps, out	USB	(Topol/Toto)
E11a	27-1-2014	1110	Mon	14410	950/30	USB	(toto-NL)
E11a	28-1-2014	1400	Tue	10690	984/10 attention	USB	(GHn/toto)
E11a	28-1-2014	1400	Tue	14666	133/00	USB	(TvB-TUR)
E11a	28-1-2014	1810	Tue	10213	985/10	USB	(toto-NL)
E11a	28-1-2014	1822	Tue	10213	985/10 attention 03562 15149 80507 63440 90010 93712 21866 57152 34468 85730 attn, rpt msg, out	USB	(07c)
E11a	29-1-2014	1045	Wed	8091	i.p.	USB	(toto-NL)
E11a	31-1-2014	1710	Fri	6923	955/20 Attention 66142 44444 43850 … 33085 11700 30521 Attention, rpt msg, out	USB	(Topol)
E17z	2-1-2014	0800	Thu	11170	674 908 5	USB	(toto-NL)
E17z	15-1-2014	0800	Wed	11170	674 238 5 80744 86200 84706 42227 61736 238 5 00000	USB	(AB)
E17z	17-1-2014	0800	Fri	11170	674 238 5 80744 86200 84706 42227 61736 238 5 00000	USB	(JU)
E17z	17-1-2014	0814	Fri	9820	674 238 5 80744 86200 84706 42227 61736 238 5 00000	USB	(JU)
E25	31-12-2013	1214		9450	musical intro of Um Kalthoum with inta Omri song followed by a strange message	AM	(SU1TZ)
E25	4-1-2014	1230	Sat	9450	883 830 4 ? followed by empty message	AM	(toto-NL)
E25	15-1-2014	1212	Wed	9450	Music followed by numbers (female voice)	AM	(ulx2)
E25	15-1-2014	1215	Wed	9450	musical intro of Um Kalthoum with inta Omri song followed by a strange message	AM	(SU1TZ)
E25	16-1-2014	1213	Thu	9450	Music. EE/YL. Msg 830 7 End of transmission, WinXP "shutting down" sound, carrier off.	AM	(ulx2)
E25	25-1-2014	1221	Sat	9450	883 0	AM	(toto-NL)
E25	25-1-2014	1419	Sat	9450	Music YL/EE 8 830 8 830 8 830 8 830 8 830 8 830 8 830 8 830 8 830 8 830 8 830 8 830 8 830 8 MESSAGE MESSAGE MESSAGE 333 END OF MESSAGE	AM	(SU1TZ)
E25	27-1-2014	1025	Mon	9450	i.p.	AM	(07c)
EGY	5-1-2014	0906	Sun	18378.7	Egyptian MFA clg XBVK and selcall 99905: Egyptian embassy Bern	SITOR-A + Codan chirp	(PH)
EGY	5-1-2014	1109	Sun	18472.7	Egyptian MFA clg TVXX and selcall 11: Egyptian embassy Sanaa	SITOR-A + Codan chirp	(PH)
EGY	7-1-2014	----	Tue	18241.7	Egyptian MFA calling KKVE Embassy Bamako	SITOR-A	(PH)
EGY	7-1-2014	----	Tue	18378.7	Egyptian MFA calling XBVK Bern	SITOR-A	(PH)
EGY	7-1-2014	----	Tue	19653.7	Egyptian MFA (Unknown) Msg, to KDJFKQR from YJKWL	SITOR-A	(PH)
EGY	7-1-2014	0800	Tue	18331.7	Egyptian MFA calling KKVZ Kampala	SITOR-A	(PH)
EGY	7-1-2014	0815	Tue	19653.7	Egyptian MFA calling SSTD Cairo	SITOR-A	(PH)
EGY	7-1-2014	0823	Tue	19667.7	Egyptian MFA calling OOVF Pyongyang	SITOR-A	(PH)
EGY	7-1-2014	0825	Tue	19101.7	Egyptian MFA calling KKXD Djibouti	SITOR-A	(PH)
EGY	7-1-2014	0830	Tue	18211.7	Egyptian MFA calling KKXA	SITOR-A	(PH)
EGY	7-1-2014	0837	Tue	19523.7	Egyptian MFA calling OOVQ Beijing	SITOR-A	(PH)
EGY	7-1-2014	1005	Tue	19346.7	Egyptian MFA calling OOVP Islamabad	SITOR-A	(PH)
EGY	11-1-2014	1836	Sat	8065	99910: MFA Cairo call to 11102 embassy Paris	Codan chirp	(PPA)
EGY	11-1-2014	1845	Sat	8023.7	MFA Cairo clg XBVP embassy Rome	SITOR-A 100/170	(PPA)
EGY	17-1-2014	1148	Fri	16007.7	MFA Cairo 99902 clg 21	SITOR-A 100/170 + Codan chirp	(DK8OK)

enigma	date	UTC	day	frequency	remarks	mode	contributor
EGY	24-1-2014	1630	Fri	6881.7	MFA Cairo clg TVVM, embassy Kuwait	SITOR-A 100/170	(PPA)
EGY	25-1-2014		Sat	10029.7	MFA Cairo (99910) clg 11107 embassy London	Codan Chirp	(PH)
EGY	28-1-2014	0849	Tue	20126.7	MFA Cairoclg KKXE, embassy Lusaka followed by Codan chirps to 1015262, 948672, 855322	SITOR-A 100/170	(LG2)
EGY	28-1-2014	1030	Tue	20126.7	MFA Cairo (LG)	SITOR-A 100/170	(LG2)
EGY	29-1-2014	0837	Wed	20124	MFA Cairoplain text ATU80 messages	SITOR-A 100/170	(LG2)
EGY	29-1-2014	0840	Wed	16086.7	Egyptian MFA clg KKXU, embassy Accra	SITOR-A 100/170	(PH)
EGY	29-1-2014	0940	Wed	19101.7	Egyptian MFA clg KKXE Luanda 0940z	SITOR-A 100/170	(PH)
EGY	29-1-2014	0957	Wed	18226.7	Egyptian MFA clg KKXE Luanda then Codan Chirp Selcall 33313 0957z	SITOR-A 100/170	(PH)
EGY	29-1-2014	0958	Wed	18223.7	Egyptian MFA clg OOVP Isamabad 0958z	SITOR-A 100/170	(PH)
EGY	29-1-2014	0959	Wed	19346.7	Egyptian MFA clg OOVP Isamabad 0959z	SITOR-A 100/170	(PH)
G06	3-1-2014	2100	Fri	5769	167 167 167 00000	CW	(HFD)
G06	6-1-2014	0800	Mon	5463		USB	(Go)
G06	6-1-2014	1700	Mon	3673	564 564 564 00000	USB	(MPJ)
G06	6-1-2014	1800	Mon	4515	564 564 564 00000	USB	(MPJ)
G06	9-1-2014	1830	Thu	4519	271 846 20 83167 14528 30778 13436 50234 67256 15654 27414 15637 75251 51820 37982 64162 18385 90381 77942 12692 22897 69231 14881 00000	USB	(MPJ/AB)
G06	10-1-2014	1930	Fri	4792	436 789 20 92411 69428 53871 76397 15673 18367 98356 25478 26743 86464 73852 53986 21496 53428 89657 26481 76534 09895 14765 06531 00000	USB	(GHn/MPJ)
G06	10-1-2014	1930	Fri	4792	436 789 20	USB	(toto-NL)
G06	17-1-2014	2000	Fri	7844	Null message: 167 00000	USB	(BS3)
G06	23-1-2014	1830	Thu	4519	271 846 20	USB	(toto-NL)
G06	24-1-2014	1930	Fri	4792	436	AM	(GHn)
G11	4-1-2014	1325	Sat	6433	290/31 Achtung 20676 65646 81642 ... 05985 33014 37432 Achtung, rpt msg, Ende	USB	(AB/Go)
G11	4-1-2014	2000	Sat	4441	262/00	USB	(GHn)
G11	5-1-2014	1755	Sun	6433	270/00	USB	(MPJ/Go)
G11	5-1-2014	2000	Sun	4441	262/00	USB	(GHn/Go)
G11	7-1-2014	1755	Tue	6433	270/00	USB	(MPJ)
G11	10-1-2014	2000	Fri	4441	262/00	USB	(MPJ)
G11	12-1-2014	2000	Sun	4441	262/00	USB	(GHn)
G11	17-1-2014	1325	Fri	6433	299/00	USB	(Topol)
G11	19-1-2014	1800	Sun	6433	i.p.	USB	(07c)
G11	24-1-2014	1804	Fri	9240	i.p. 60488 94648 69677 61945 ... ende	USB	(LG2)
G11	26-1-2014	1755	Sun	6433	270/00, +40db	USB	(toto-NL)
G11	28-1-2014	1755	Tue	6433	270/00	USB	(toto-NL)
HM01	31-12-2013	1936		11530	56792 03633 37674 1865 62113 66163	AM/RDFT	(SFNY)
HM01	1-1-2014	0500	Wed	5855	56792 03633 37674 1865 62113 66163	AM/RDFT	(SNFY)
HM01	1-1-2014	0600	Wed	11435	56792 03633 37674 1865 62113 66163	AM/RDFT	(SNFY)
HM01	1-1-2014	0700	Wed	9330	56792 03633 37674 1865 62113 66163	AM/RDFT	(SNFY)
HM01	1-1-2014	0800	Wed	9065		AM/RDFT	(DM0551)
HM01	1-1-2014	1618	Wed	11435	56792 03633 37674 18655 62113 66163	AM/RDFT	(DSch)
HM01	1-1-2014	1708	Wed	11530	56792 03633 37674 18655 62113 66163. Later in sked the sig had an echo.	AM/RDFT	(DSch)
HM01	1-1-2014	2104	Wed	11635	56792 03633 37674 18655 62113 66163	AM/RDFT	(DSch)
HM01	1-1-2014	2159	Wed	10715	56 (stopped) 56792 03633 37674 18655 62113 66163	AM/RDFT	(DSch)
HM01	1-1-2014	2259	Wed	11536	56792 03633 37674 18655 62113 66163	AM/RDFT	(DSch)
HM01	1-1-2014	2300	Wed	11530	66163 56792 03633 37674 18655 62113	AM/RDFT	(Dan)
HM01	2-1-2014	0700	Thu	13435	56792 03633 37674 1865 62113 66163	AM/RDFT	(SNFY)
HM01	2-1-2014	0758	Thu	11635	56792 03633 37674 1865 62113 66163	AM/RDFT	(SNFY)
HM01	2-1-2014	1615	Thu	11435	56792 03633 37674 18655 62113 66163 56792 etc	AM/RDFT	(DSch)
HM01	2-1-2014	1659	Thu	11530	56792 03633 37674 18655 62113 66163 56792 etc	AM/RDFT	(DSch)
HM01	2-1-2014	1759	Thu	11635	56792 03633 37674 18655 62113 66163 56792 etc	AM/RDFT	(DSch)
HM01	2-1-2014	2059	Thu	16180	56792 03633 37674 18655 62113 66163 56792 etc	AM/RDFT	(DSch)
HM01	2-1-2014	2200	Thu	17480	56792 03633 37674 18655 62113 66163. Started, stopped, then starts again 56792 etc	AM/RDFT	(DSch)
HM01	2-1-2014	2259	Thu	17540	56792 03633 37674 18655 62113 66163 56792 etc nbrs were doubled up briefly.	AM/RDFT	(DSch)
HM01	2-1-2014	2300	Thu	17540	66163 56792 03633 37674 18655 62113	AM/RDFT	(Dan)
HM01	3-1-2014	0520	Fri	5855	56792 03633 37674 18655 62113 66163	AM/RDFT	(KC2TTK)
HM01	3-1-2014	0600	Fri	10345	56792 03633 37674 18655 62113 66163	AM/RDFT	(KC2TTK)

enigma	date	UTC	day	frequency	remarks	mode	contributor
HM01	3-1-2014	0600	Fri	11435		AM/RDFT	(SFNY)
HM01	3-1-2014	0700	Fri	9330		AM/RDFT	(SFNY)
HM01	3-1-2014	1603	Fri	11435	56792 0363 37674 18655 62113 66163	AM/RDFT	(DSch)
HM01	3-1-2014	1659	Fri	11435	56792 0363 37674 18655 62113 66163. Should be on 11530. Shifted to 11530 at 1701 UTC	AM/RDFT	(DSch)
HM01	3-1-2014	1701	Fri	11530	56792 0363 37674 18655 62113 66163. Shifted from 11435	AM/RDFT	(DSch)
HM01	3-1-2014	1758	Fri	11635	56792 0363 37674 18655 62113 66163	AM/RDFT	(DSch)
HM01	3-1-2014	2108	Fri	11635	56792 0363 37674 18655 62113 66163	AM/RDFT	(DSch)
HM01	3-1-2014	2205	Fri	10715	56792 0363 37674 18655 62113 66163	AM/RDFT	(DSch)
HM01	3-1-2014	2259	Fri	11530	56792 0363 37674 18655 62113 66163	AM/RDFT	(DSch)
HM01	3-1-2014	2300	Fri	11530	66163 56792 03633 37674 18655 62113	AM/RDFT	(Dan)
HM01	4-1-2014	1604	Sat	11435	56792 etc mixing with another message	AM/RDFT	(DSch)
HM01	4-1-2014	1613	Sat	11435	i.p. out of sync voice/data (double tx) 56792 66163	AM	(toto-NL)
HM01	4-1-2014	1711	Sat	11530	56792 03633 37674 18655 62113 66163	AM/RDFT	(DSch)
HM01	4-1-2014	1800	Sat	11635	56792 03633 37674 18655 62113 66163	AM/RDFT	(DSch)
HM01	4-1-2014	2103	Sat	16180	Starts then stops. When starts again there are two HM01 sigs on freq.	AM/RDFT	(DSch)
HM01	4-1-2014	2208	Sat	17480	56792 03633 37674 18655 62113 66163 Two messages at same time. Mix stops at 2214 UTC	AM/RDFT	(DSch)
HM01	4-1-2014	2250	Sat	17480	56792 03633 37674 18655 62113 66163	AM/RDFT	(SFNY)
HM01	4-1-2014	2250	Sat	17480	in progress	AM/RDFT	(SFNY)
HM01	4-1-2014	2300	Sat	17540	56792 03633 37674 18655 62113 66163	AM/RDFT	(DSch/SFNY)
HM01	4-1-2014	2300	Sat	17540	56792 03633 37674 18655 62113 66163	AM/RDFT	(SFNY)
HM01	5-1-2014	0700	Sun	9330	56792 03633 37674 18655 62113 66163	AM/RDFT	(SFNY)
HM01	5-1-2014	1744	Sun	11530	56792 etc	AM/RDFT	(DSch)
HM01	5-1-2014	1803	Sun	11635	56792 etc	AM/RDFT	(DSch)
HM01	5-1-2014	2059	Sun	11635	56792 etc. Another msg mixed in briefly	AM/RDFT	(DSch)
HM01	5-1-2014	2159	Sun	10715	56792 etc.	AM/RDFT	(DSch)
HM01	5-1-2014	2300	Sun	11530	56792 etc	AM/RDFT	(DSch)
HM01	6-1-2014	0700	Mon	9330	56792 03633 37674 18655 62113 66163	AM/RDFT	(SFNY)
HM01	6-1-2014	1606	Mon	11435	56792 03633 37674 18655 62113 66163	AM/RDFT	(DSch)
HM01	6-1-2014	1705	Mon	11530	56792 03633 37674 18655 62113 66163	AM/RDFT	(DSch)
HM01	6-1-2014	1828	Mon	11635	56792 03633 37674 18655 62113 66163	AM/RDFT	(DSch)
HM01	6-1-2014	2058	Mon	11635	56792 03633 37674 18655 62113 66163	AM/RDFT	(DSch/Dan)
HM01	6-1-2014	2211	Mon	10715	56792 03633 37674 18655 62113 66163	AM/RDFT	(DSch)
HM01	6-1-2014	2258	Mon	11530	56792 03633 37674 18655 62113 66163	AM/RDFT	(DSch)
HM01	7-1-2014	1604	Tue	11435	56792	AM/RDFT	(DSch)
HM01	7-1-2014	1659	Tue	11530	56792 etc at 071659	AM/RDFT	(DSch)
HM01	7-1-2014	2103	Tue	11635	Carrier on then off at 2103	AM/RDFT	(DSch)
HM01	7-1-2014	2106	Tue	16180	Now tuning on this freq. 56792 etc	AM/RDFT	(DSch)
HM01	7-1-2014	2159	Tue	17480	56792 etc	AM/RDFT	(DSch)
HM01	7-1-2014	2259	Tue	17480	56792 etc. Should be on 17540. Shifts to 17540 at 2310	AM/RDFT	(DSch)
HM01	7-1-2014	2300	Tue	17540	66163 56792 03633 37674 18655 62113	AM/RDFT	(Dan)
HM01	7-1-2014	2311	Tue	17540	56792 etc	AM/RDFT	(DSch)
HM01	8-1-2014	0600	Wed	11435	56792 03633 37674 18655 62113 66163	AM/RDFT	(SFNY)
HM01	8-1-2014	1640	Wed	11435	80587 55242 01061 44784 68732 48838	AM/RDFT	(DSch)
HM01	8-1-2014	1700	Wed	11435	80587 55242 01061 44784 68732 48838. Shpuld be on 11530 kHz	AM/RDFT	(DSch)
HM01	8-1-2014	1714	Wed	11530	80587 55242 01061 44784 68732 48838. Now shifts to this freq. 80587 etc	AM/RDFT	(DSch)
HM01	8-1-2014	1821	Wed	11635	80587 55242 01061 44784 68732 48838	AM/RDFT	(DSch)
HM01	8-1-2014	2101	Wed	16180	80587 55242 01061 44784 68732 48838 Should be on 11635 kHz.	AM/RDFT	(DSch)
HM01	8-1-2014	2248	Wed	10715	80587 55242 01061 44784 68732 48838	AM/RDFT	(DSch)
HM01	9-1-2014	1607	Thu	11435	04111 etc	AM/RDFT	(DSch)
HM01	9-1-2014	1658	Thu	11530	04111 etc	AM/RDFT	(DSch)
HM01	9-1-2014	1758	Thu	11635	04111 etc	AM/RDFT	(DSch)
HM01	9-1-2014	2058	Thu	16180	04111 etc	AM/RDFT	(DSch)
HM01	9-1-2014	2230	Thu	17480	04111 etc	AM/RDFT	(DSch)
HM01	9-1-2014	2259	Thu	17540	04111 etc	AM/RDFT	(DSch)
HM01	10-1-2014	1620	Fri	11435	04112 55245 01064 44787 68735 02103	AM/RDFT	(DSch)
HM01	10-1-2014	1731	Fri	11530	04112 55245 01064 44787 68735 02103	AM/RDFT	(DSch)
HM01	10-1-2014	1802	Fri	11635	04112 55245 01064 44787 68735 02103	AM/RDFT	(DSch)
HM01	10-1-2014	2102	Fri	11635	04112 55245 01064 44787 68735 02103. Stopped at 2201 UTC	AM/RDFT	(DSch)
HM01	10-1-2014	2103	Fri	10715	04112 55245 01064 44787 68735 02103	AM/RDFT	(DSch)

enigma	date	UTC	day	frequency	remarks	mode	contributor
HM01	10-1-2014	2224	Fri	10715	Spanish 5FGs + RDFT data	AM/RDFT	(Steve)
HM01	10-1-2014	2258	Fri	11530	04112 55245 01064 44787 68735 02103	AM/RDFT	(DSch)
HM01	11-1-2014	0500	Sat	5855	04113 55246 01065 44788 68736 02104	AM/RDFT	(SFNY)
HM01	11-1-2014	0600	Sat	11435	04113 55246 01065 44788 68736 02104	AM/RDFT	(SFNY)
HM01	11-1-2014	1452	Sat	14375	Radio Habana, Cuba on HM01's frequency for about 20 mins.	AM	(Steve)
HM01	11-1-2014	1605	Sat	11435	04113 55246 01065 44788 68736 02104	AM/RDFT	(DSch)
HM01	11-1-2014	1659	Sat	11530	04113 55246 01065 44788 68736 02104	AM/RDFT	(DSch)
HM01	11-1-2014	1758	Sat	11635	04113 55246 01065 44788 68736 02104	AM/RDFT	(DSch)
HM01	11-1-2014	2158	Sat	16180	04113 55246 01065 44788 68736 02104	AM/RDFT	(DSch)
HM01	11-1-2014	2213	Sat	17480	04113 55246 01065 44788 68736 02104	AM/RDFT	(DSch)
HM01	11-1-2014	2300	Sat	17540	55246 01065 44788 68736 02104 04113	AM/RDFT	(DSch/Dan)
HM01	12-1-2014	0500	Sun	5855	04114 55247 01066 17721 68737 04114	AM/RDFT	(SFNY)
HM01	12-1-2014	0506	Sun	5855	i.p.	AM/RDFT	(RWO)
HM01	12-1-2014	0600	Sun	11435	04114 55247 01066 17721 68737 04114	AM/RDFT	(SFNY)
HM01	12-1-2014	1607	Sun	11435	04114 55247 01066 19721 68737 02105	AM/RDFT	(DSch)
HM01	12-1-2014	1658	Sun	11530	04114 55247 01066 19721 68737 02105	AM/RDFT	(DSch)
HM01	12-1-2014	1758	Sun	11635	04114 55247 01066 19721 68737 02105	AM/RDFT	(DSch)
HM01	12-1-2014	2059	Sun	11635	04114 55247 01066 19721 68737 02105	AM/RDFT	(DSch)
HM01	12-1-2014	2206	Sun	10715	04114 55247 01066 19721 68737 02105	AM/RDFT	(DSch)
HM01	12-1-2014	2300	Sun	11530	04114 55247 01066 19721 68737 02105	AM/RDFT	(DSch/Dan)
HM01	13-1-2014	0800	Mon	9065	Spanish numbers	AM/RDFT	(DM0551)
HM01	13-1-2014	1611	Mon	11435	04115 53441 22061 19722 83151 32105	AM/RDFT	(DSch)
HM01	13-1-2014	1700	Mon	11530	The RDFT signals could be heard but no voice. At 1718 briefly a Radio Havana broadcast then off.	RDFT	(DSch)
HM01	13-1-2014	2203	Mon	10715	04115 53441 22061 19722 83151 32105 0	AM/RDFT	(DSch)
HM01	13-1-2014	2220	Mon	10715	i.p. 53441 22061 17722	AM	(toto-NL)
HM01	13-1-2014	2259	Mon	11530	04115 53441 22061 19722 83151 32105	AM/RDFT	(DSch)
HM01	14-1-2014	1606	Tue	11435	04115 54441 22061 17722 83151 02106	AM/RDFT	(DSch)
HM01	14-1-2014	1702	Tue	11635	04115 54441 22061 17722 83151 02106	AM/RDFT	(DSch)
HM01	14-1-2014	2058	Tue	16180	04115 54441 22061 17722 83151 02106	AM/RDFT	(DSch)
HM01	14-1-2014	2106	Tue	11530	04115 54441 22061 17722 83151 02106	AM/RDFT	(DSch)
HM01	14-1-2014	2159	Tue	17480	04115 54441 22061 17722 83151 02106	AM/RDFT	(DSch)
HM01	14-1-2014	2300	Tue	17540	04115 53441 22061 17722 83151 02106	AM/RDFT	(Dan)
HM01	14-1-2014	2355	Tue	17540	in progress	AM/RDFT	(DSch)
HM01	15-1-2014	0500	Wed	5855	04115 53441 22061 17722 83131 02106	AM/RDFT	(SFNY)
HM01	15-1-2014	1738	Wed	11530	04115 54441 22061 17722 83151 02106	AM/RDFT	(DSch)
HM01	15-1-2014	1800	Wed	11635	04115 54441 22061 17722 83151 02106	AM/RDFT	(DSch)
HM01	15-1-2014	2116	Wed	11635	Carrier on but no sigs. At 2119 UTC 04115 etc	AM/RDFT	(DSch)
HM01	15-1-2014	2230	Wed	10715	04115 54441 22061 17722 83151 02106	AM/RDFT	(DSch)
HM01	16-1-2014	0730	Thu	13435	04115 53441 22061 17722 83151 02106	AM/RDFT	(SFNY)
HM01	16-1-2014	1423	Thu	8097	Cuban cut nbrs .	AM/RDFT	(DSch)
HM01	16-1-2014	1709	Thu	11530	81817 14855 81785 82461 65525 61073	AM/RDFT	(DSch)
HM01	16-1-2014	1810	Thu	11635	81817 14855 81785 82461 65525 61073	AM/RDFT	(DSch)
HM01	16-1-2014	2101	Thu	16180	81817 14855 81785 82461 65525 61073	AM/RDFT	(DSch)
HM01	16-1-2014	2200	Thu	17480	81817 14855 81785 82461 65525 61073	AM/RDFT	(DSch)
HM01	16-1-2014	2300	Thu	17540	81817 14855 81785 82461 65525 61073	AM/RDFT	(DSch/Dan)
HM01	17-1-2014	0500	Fri	5855	81817 14855 81785 82461 65525 61073	AM/RDFT	(SFNY)
HM01	17-1-2014	0600	Fri	11435	81817 14855 81785 82461 65525 61073	AM/RDFT	(SFNY)
HM01	17-1-2014	0700	Fri	9330	81817 14855 81785 82461 65525 61073	AM/RDFT	(SFNY)
HM01	17-1-2014	1611	Fri	11435	81817 14855 81785 82461 65525 61073	AM/RDFT	(DSch)
HM01	17-1-2014	1700	Fri	11530	81817 14855 81785 82461 65525 61073	AM/RDFT	(DSch)
HM01	17-1-2014	1758	Fri	11635	81817 14855 81785 82461 65525 61073	AM/RDFT	(DSch)
HM01	17-1-2014	2128	Fri	11635	81817 14855 81785 82461 65525 61073	AM/RDFT	(DSch)
HM01	17-1-2014	2202	Fri	10715	81817 14855 81785 82461 65525 61073	AM/RDFT	(DSch)
HM01	17-1-2014	2259	Fri	11530	81817 14855 81785 82461 65525 61073	AM/RDFT	(DSch)
HM01	18-1-2014	1608	Sat	11435	81817 14855 81785 82461 65525 61073	AM/RDFT	(DSch)
HM01	18-1-2014	1659	Sat	11530	81817 14855 81785 82461 65525 61073	AM/RDFT	(DSch)
HM01	18-1-2014	1758	Sat	11635	81817 14855 81785 82461 65525 61073	AM/RDFT	(DSch)
HM01	18-1-2014	2101	Sat	16180	81817 14855 81785 82461 65525 61073	AM/RDFT	(DSch)
HM01	18-1-2014	2200	Sat	17480	81817 14855 81785 82461 65525 61073	AM/RDFT	(DSch)
HM01	18-1-2014	2317	Sat	17540	81817 14855 81785 82461 65525 61073	AM/RDFT	(DSch)
HM01	19-1-2014	1631	Sun	11435	81817 14855 81785 82461 65525 61073	AM/RDFT	(DSch)

enigma	date	UTC	day	frequency	remarks	mode	contributor
HM01	19-1-2014	1659	Sun	11530	81817 14855 81785 82461 65525 61073	AM/RDFT	(DSch)
HM01	19-1-2014	1821	Sun	11635	81817 14855 81785 82461 65525 61073	AM/RDFT	(DSch)
HM01	19-1-2014	2058	Sun	11635	81817 14855 81785 82461 65525 61073	AM/RDFT	(DSch)
HM01	19-1-2014	2200	Sun	10715	81817 14855 81785 82461 65525 61073	AM/RDFT	(Dan)
HM01	19-1-2014	2238	Sun	10715	81817 14855 81785 82461 65525 61073	AM/RDFT	(DSch)
HM01	19-1-2014	2258	Sun	11530	81817 14855 81785 82461 65525 61073	AM/RDFT	(DSch)
HM01	20-1-2014	1607	Mon	11435	81817 etc	AM/RDFT	(DSch)
HM01	20-1-2014	1803	Mon	11530	81817 etc. Still sending on this freq at 1803	AM/RDFT	(DSch)
HM01	20-1-2014	1826	Mon	11635	81817 etc. Now on correct freq	AM/RDFT	(DSch)
HM01	20-1-2014	2101	Mon	11635	81817 etc	AM/RDFT	(DSch)
HM01	20-1-2014	2158	Mon	19715	81817 etc	AM/RDFT	(DSch)
HM01	20-1-2014	2301	Mon	11530	81817 etc	AM/RDFT	(DSch)
HM01	21-1-2014	1606	Tue	11435	81817 14855 81785 82461 65525 61073	AM/RDFT	(DSch)
HM01	21-1-2014	1701	Tue	11530	81817 14855 81785 82461 65525 61073	AM/RDFT	(DSch)
HM01	21-1-2014	1802	Tue	11635	81817 14855 81785 82461 65525 61073	AM/RDFT	(DSch)
HM01	21-1-2014	2101	Tue	16180	81817 14855 81785 82461 65525 61073	AM/RDFT	(DSch)
HM01	21-1-2014	2200	Tue	17480	81817 14855 81785 82461 65525 61073	AM/RDFT	(DSch)
HM01	21-1-2014	2331	Tue	17540	81817 14855 81785 82461 65525 61073	AM/RDFT	(DSch)
HM01	22-1-2014	0500	Wed	5855	81817 14855 81785 82461 65525 61073	AM/RDFT	(SFNY)
HM01	22-1-2014	1018	Wed	5855	81817 14855 81785 82461 65525 61073 //9155 kHz	AM/RDFT	(DSch)
HM01	22-1-2014	1018	Wed	9155	81817 14855 81785 82461 65525 61073 //5855 kHz	AM/RDFT	(DSch)
HM01	22-1-2014	1603	Wed	11435	81818 14856 60471 82462 65526 61074. A new group appears as the 3rd group and the other 5 groups show the increase of one in the 5th digit.	AM/RDFT	(DSch)
HM01	22-1-2014	1703	Wed	11530	81818 14856 60471 82462 65526 61074 81818	AM/RDFT	(DSch)
HM01	22-1-2014	1801	Wed	11635	81818 14856 60471 82462 65526 61074 81818	AM/RDFT	(DSch)
HM01	22-1-2014	2101	Wed	11635	81818 14856 60471 82462 65526 61074 81818	AM/RDFT	(DSch)
HM01	22-1-2014	2201	Wed	10715	81818 14856 60471 82462 65526 61074 81818	AM/RDFT	(DSch)
HM01	22-1-2014	2301	Wed	11530	81818 14856 60471 82462 65526 61074 81818	AM/RDFT	(DSch)
HM01	23-1-2014	1602	Thu	11435	81871 (new group) 14857 60472 82463 65527 61075	AM/RDFT	(DSch)
HM01	23-1-2014	1701	Thu	11530	81871 14857 60472 82463 65527 61075	AM/RDFT	(DSch)
HM01	23-1-2014	2003	Thu	11635	81871 14857 60472 82463 65527 61075	AM/RDFT	(DSch)
HM01	23-1-2014	2101	Thu	16180	81871 14857 60472 82463 65527 61075	AM/RDFT	(DSch)
HM01	23-1-2014	2256	Thu	17540	81871 14857 60472 82463 65527 61075	AM/RDFT	(DSch)
HM01	23-1-2014	2300	Thu	17540	81871 14857 60472 82463 65527 61075	AM/RDFT	(Dan)
HM01	24-1-2014	0500	Fri	5855	81871 14857 60472 82463 65527 61075	AM/RDFT	(SFNY)
HM01	24-1-2014	0746	Fri	8330	i.p.	AM/RDFT	(S1)
HM01	24-1-2014	1603	Fri	11435	61051 16207 14658 50532 73475 13126	AM/RDFT	(DSch)
HM01	24-1-2014	1732	Fri	11530	61051 16207 14658 50532 73475 13126. Should be on 11635.	AM/RDFT	(DSch)
HM01	24-1-2014	1900	Fri	11565		AM/RDFT	(ER)
HM01	24-1-2014	1926	Fri	11635	61051 16207 14658 50532 73475 13126	AM/RDFT	(DSch)
HM01	24-1-2014	2201	Fri	10715	61051 16207 14658 50532 73475 13126 61051	AM/RDFT	(DSch)
HM01	24-1-2014	2300	Fri	11530	61051 16207 14658 50532 73475 13126	AM/RDFT	(Dan)
HM01	24-1-2014	2301	Fri	11530	61051 16207 14658 50532 73475 13126 61051	AM/RDFT	(DSch)
HM01	25-1-2014	0500	Sat	5855	61051 16207 14658 50532 73475 13126	AM/RDFT	(SFNY)
HM01	25-1-2014	0500	Sat	14375		AM/RDFT	(k5knt)
HM01	25-1-2014	0600	Sat	11435	61051 16207 14658 50532 73475 13126	AM/RDFT	(SFNY)
HM01	25-1-2014	0600	Sat	14375		AM/RDFT	(k5knt)
HM01	25-1-2014	0731	Sat	13435	61051 etc	AM/RDFT	(DSch)
HM01	25-1-2014	0800	Sat	9065	61051 etc	AM/RDFT	(DM0551)
HM01	25-1-2014	0900	Sat	9240	61051 etc	AM/RDFT	(DM0551)
HM01	25-1-2014	1607	Sat	11435	61051 etc	AM/RDFT	(DSch)
HM01	25-1-2014	1702	Sat	11530	61051 etc	AM/RDFT	(DSch)
HM01	25-1-2014	1800	Sat	11635		AM	
HM01	25-1-2014	1800	Sat	11635	61051 etc	AM/RDFT	(DSch)
HM01	25-1-2014	2100	Sat	16180	61051 etc	AM/RDFT	(DSch)
HM01	25-1-2014	2225	Sat	17480	61051 etc	AM/RDFT	(DSch)
HM01	25-1-2014	2302	Sat	17540	61051 etc	AM/RDFT	(DSch)
HM01	26-1-2014	0509	Sun	5855	in progress	AM/RDFT	(N2UHC)
HM01	26-1-2014	0848	Sun	9065	i.p.	AM/RDFT	(X585)
HM01	26-1-2014	1603	Sun	11435	61051 16207 14658 50532 73475 13126	AM/RDFT	(DSch)
HM01	26-1-2014	1700	Sun	11530	61051 16207 14658 50532 73475 13126	AM/RDFT	(DSch)
HM01	26-1-2014	1809	Sun	11635	61051 16207 14658 50532 73475 13126	AM/RDFT	(DSch)

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HM01	26-1-2014	2102	Sun	11635	61051 16207 14658 50532 73475 13126	AM/RDFT	(DSch)
HM01	26-1-2014	2200	Sun	10715	61051 16207 14658 50532 73475 13126	AM/RDFT	(DSch)
HM01	26-1-2014	2300	Sun	11530	61051 16207 14658 50532 73475 13126	AM/RDFT	(Dan)
HM01	26-1-2014	2301	Sun	11530	61051 16207 14658 50532 73475 13126	AM/RDFT	(DSch)
HM01	27-1-2014	0500	Mon	5855	No HM01 but Radio Habana on this freq	AM	(SNFY)
HM01	27-1-2014	0517	Mon	5855	i.p.14658 50532	AM	(toto-NL)
HM01	27-1-2014	0600	Mon	11435	61051 16207 14658 50532 73475 13126	AM/RDFT	(SFNY)
HM01	27-1-2014	0700	Mon	9330	61051 16207 14658 50532 73475 13126	AM/RDFT	(SFNY)
HM01	27-1-2014	1020	Mon	9155	i.p.	AM/RDFT	(07c)
HM01	27-1-2014	1610	Mon	11435	61051 16207 14658 50532 73475 13126	AM/RDFT	(DSch)
HM01	27-1-2014	1701	Mon	11530	61051 16207 14658 50532 73475 13126	AM/RDFT	(DSch)
HM01	27-1-2014	2112	Mon	11635	61051 16207 14658 50532 73475 13126	AM/RDFT	(DSch)
HM01	27-1-2014	2201	Mon	10715	61051 16207 14658 50532 73475 13126	AM/RDFT	(DSch)
HM01	27-1-2014	2300	Mon	11530	61051 16207 14658 50532 73475 13126	AM/RDFT	(DSch)
HM01	28-1-2014	1732	Tue	11530	61051 16207 14658 50532 73474 13126	AM/RDFT	(DSch)
HM01	28-1-2014	1800	Tue	11635	61051 16207 14658 50532 73474 13126	AM/RDFT	(DSch)
HM01	28-1-2014	2101	Tue	16180	61051 16207 14658 50532 73474 13126	AM/RDFT	(DSch)
HM01	28-1-2014	2200	Tue	17480	61051 16207 14658 50532 73474 13126	AM/RDFT	(DSch)
HM01	28-1-2014	2220	Tue	17480	i.p.	AM/RDFT	(pjen)
HM01	28-1-2014	2258	Tue	17540	61051 16207 14658 50532 73474 13126	AM/RDFT	(DSch)
HM01	28-1-2014	2300	Tue	17540	61051 16207 14658 50532 73475 13126	AM/RDFT	(Dan)
HM01	30-1-2014	1639	Thu	11435	61052 16208 63601 50533 73476 13127	AM/RDFT	(DSch)
HM01	30-1-2014	1702	Thu	11530	61052 16208 63601 50533 73476 13127	AM/RDFT	(DSch)
HM01	30-1-2014	1801	Thu	11635	61052 16208 63601 50533 73476 13127	AM/RDFT	(DSch)
HM01	30-1-2014	2107	Thu	16180	61052 16208 63601 50533 73476 13127	AM/RDFT	(DSch)
HM01	30-1-2014	2200	Thu	17480	61052 16208 63601 50533 73476 13127	AM/RDFT	(DSch)
HM01	30-1-2014	2300	Thu	17540	61052 16208 63601 50533 73476 13127	AM/RDFT	(DSch)
HM01	31-1-2014	0700	Fri	9330	Started with V02a "Atencion 50412 63731 76261" then "50412" (6x), then non-repeating 5 figure groups, ending in mid group at 0703 followed by RDFT. Then: 83381 22571 15441 50182 08444 51835 alternating these numbers with RDFT data.	AM/RDFT	(SF/T)
HM01	31-1-2014	0800	Fri	5855	83381 22571 15441 50182 08444 51835	AM/RDFT	(Token)
M01	2-1-2014	1800	Thu	5320	197 914 30 = = 61331 51754 25800 49331 59786 ... 27997 75906 09782 11661 51166 (no BTs) 914914 30 30 000	CW	(MPJ)
M01	7-1-2014	1800	Tue	5320	197 716 30 = = 17281 74306 00176 18801 13745 ... 34014 (34012) 17568 11531 77226 59743 = = 716 30 000	CW	(MPJ)
M01	7-1-2014	2000	Tue	4490	197 901 30 = = 36264 53866 07699 69912 (69921) 22537 ... 14465 15011 23495 51823 68020 = = 901 30 000	CW	(MPJ)
M01	9-1-2014	1800	Thu	5320	197 121 30 = = 91636 27968 46258 98535 69331 ... 40073 43161 46491 03036 15049 = = 121 30 000	CW	(MPJ)
M01	9-1-2014	2000	Thu	4490	197 410 30 = = 77028 19625 97873 47911 15101 ... (fading) 13828 ... = = 410 30 000	CW	(MPJ)
M01	18-1-2014	1500	Sat	5810	197 ???	CW	(Topol)
M01	25-1-2014	1500	Sat	5810	197.....	CW	(Topol)
M01	28-1-2014	1807	Tue	5320	ip	CW	(AB)
M01b	2-1-2014	2042	Thu	2485	382 (Almost unreadable) _78 32 32 = = __900 _1_63 13905 50036 99___ (gave up). Nothing on 3160 kHz	CW	(MPJ/RWO)
M01b	9-1-2014	1939	Thu	3546	i.p. 32510 67967 20262 ... 10258 37137 = = 781 781 32 32 000	CW	(JPL-FNL)
M01b	9-1-2014	2042	Thu	2485	382 781 32 = = 44900 21663 13905 50036 09949 ... 35433 97290 26177 10258 37137 = = 781 32 000	MCW	(MPJ)
M01b	10-1-2014	2110	Fri	2405	610 504 30 = = 0166. 92065 1.0.. 30883 93259 ... 71111 37516 54699 05048 45002 = = 504 30 000. Tone 1100 Hz. //3189 kHz	MCW	(MPJ)
M01b	10-1-2014	2110	Fri	3189	610 504 30 = = 0166. 92065 1.0.. 30883 93259 ... 71111 37516 54699 05048 45002 = = 504 30 000. Tone 1100 Hz. //2405 kHz	MCW	(MPJ)
M03	5-1-2014	1420	Sun	13911	873/32 = = 64281 53992 47234 71823 27029 ... 81099 83466 74953 48599 44145 = = 873/32 = = 64281 ... rpts msg	CW	(MPJ)
M03	6-1-2014	1320	Mon	4505	549/34	CW	(HFD)
M03	7-1-2014	1535	Tue	5358	798/00	CW	(MPJ)
M03	10-1-2014	1420	Fri	13911	879/00	CW	(HFD)
M03	10-1-2014	1420	Fri	13911	879/00	CW	(MPJ)
M03	10-1-2014	1420	Fri	13911	879/00	CW	(Topol)
M03	10-1-2014	1420	Fri	13911	879/00	CW	(Topol)
M03	11-1-2014	1535	Sat	5358	798/00	CW	(Topol)
M03	12-1-2014	1420	Sun	13911	879/00	CW	(MPJ)

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M03	13-1-2014	1320	Mon	4505	543/00	CW	(HFD)
M03	18-1-2014	1535	Sat	5358	797 38 = 49303 34827 61497 ... 20125 44421 99061 ...	CW	(Topol)
M03	19-1-2014	1420	Sun	13911	879/00	CW	(Topol)
M03	25-1-2014	1535	Sat	5358	798/00	CW	(Topol)
M08a	1-1-2014	1424	Wed	8096	Cuban cut nbrs	CW	(DSch)
M08a	2-1-2014	1418	Thu	8096	Cuban cut nbrs	CW	(DSch)
M08a	2-1-2014	1957	Thu	7554	Cuban cut nbrs	CW	(DSch)
M08a	3-1-2014	1355	Fri	8096.1	QWUUN NGIIA DAATA Cuban cut nbrs	CW	(DSch)
M08a	3-1-2014	2009	Fri	7554	Cuban cut nbrs	CW	(DSch)
M08a	6-1-2014	1405	Mon	8097	Cuban cut nbrs	CW	(DSch)
M08a	7-1-2014	1400	Tue	8097	Cuban cut numbers	CW	(DSch)
M08a	7-1-2014	2004	Tue	7554	TWAAN AGWUA NNGRN Cuban cut nbrs	CW	(DSch)
M08a	8-1-2014	1404	Wed	8096.2	Cuban cut nbrs	CW	(DSch)
M08a	9-1-2014	1413	Thu	8096.1	Cuban cut nbrs	CW	(DSch)
M08a	12-1-2014	1452	Sun	8096.2	Cuban cut nbrs in CW	CW	(DSch)
M08a	14-1-2014	2008	Tue	7554	i.p. At 2042 starts with ANDUW RIGMT cut nbrs. About every 5th sequence sends ANDUW RIGMT RIGMT.	CW	(DSch)
M08a	15-1-2014	1407	Wed	8096.3	Cuban cut nbrs	CW	(DSch)
M08a	21-1-2014	1424	Tue	8096.4	Cuban cut nbrs	CW	(DSch)
M08a	21-1-2014	2000	Tue	7554	Cuban cut nbrs	CW	(DSch)
M08a	21-1-2014	2300	Tue	8135	Cuban morse letters	CW	(toto-NL)
M08a	22-1-2014	1401	Wed	8096.1	Cuban cut nbrs	CW	(DSch)
M08a	23-1-2014	1415	Thu	8096.1	Cuban cut nbrs	CW	(DSch)
M08a	24-1-2014	1401	Fri	8096.4	Cuban cut nbrs	CW	(DSch)
M08a	27-1-2014	1400	Mon	8096.4	Cuban cut nbrs ADDDN NPRRA TTTAA	CW	(DSch)
M08a	28-1-2014	1426	Tue	8096.3	Cuban cut nbrs	CW	(DSch)
M08a	29-1-2014	1401	Wed	8096.3	Cuban cut nbrs	CW	(DSch)
M08a	30-1-2014	1401	Thu	8096.1	Cuban cut nbrs	CW	(DSch)
M08a	31-1-2014	0620	Fri	10345	in progress	CW	(Token)
M12	1-1-2014	2200	Wed	5361	340 340 340 000	CW	(HFD)
M12	1-1-2014	2220	Wed	4461	340 340 340 000	CW	(HFD)
M12	2-1-2014	0730	Thu	5284	277 277 277 000	CW	(FN)
M12	2-1-2014	0730	Thu	5284	277 277 277 000	CW	(HFD)
M12	2-1-2014	0750	Thu	5784	277 277 277 000	CW	(FN)
M12	2-1-2014	0750	Thu	5784	277 277 277 000	CW	(HFD)
M12	2-1-2014	1010	Thu	13369	369 369 369 000	CW	(FN)
M12	2-1-2014	1010	Thu	13369	369 369 369 000	CW	(HFD)
M12	2-1-2014	1030	Thu	14669	369 369 369 000	CW	(FN)
M12	2-1-2014	1030	Thu	14669	369 369 369 000	CW	(HFD)
M12	2-1-2014	1645	Thu	11435	5FGs difficult copy	CW	(LG2)
M12	4-1-2014	0600	Sat	5838	842 842 842 000	CW	(FN)
M12	4-1-2014	0620	Sat	7438	842 842 842 000	CW	(FN)
M12	5-1-2014	1010	Sun	13369	369 1 1470 67 44724	CW	(FN)
M12	5-1-2014	1030	Sun	14669	369 1 1470 67 44724	CW	(FN)
M12	5-1-2014	1050	Sun	15969	369 1 1470 67 44724	CW	(FN)
M12	6-1-2014	0530	Mon	4457	417 417 417 000	CW	(FN)
M12	6-1-2014	0550	Mon	5157	417 417 417 000	CW	(FN)
M12	8-1-2014	2200	Wed	5361	340 340 340 000	CW	(FN)
M12	8-1-2014	2220	Wed	4461	340 340 340 000	CW	(FN)
M12	9-1-2014	0730	Thu	5284	277 277 277 000	CW	(FN)
M12	9-1-2014	0750	Thu	5784	277 277 277 000	CW	(FN)
M12	9-1-2014	1010	Thu	13369	369 369 369 000	CW	(FN)
M12	9-1-2014	1010	Thu	13369	369 369 369 000	CW	(Topol)
M12	9-1-2014	1030	Thu	14669	369 369 369 000	CW	(FN)
M12	9-1-2014	1030	Thu	14669	369 369 369 000	CW	(Topol)
M12	9-1-2014	1600	Thu	13386	725 1 3319 101 04209	CW	(FN)
M12	9-1-2014	1600	Thu	13386	725 1	CW	(HFD)
M12	9-1-2014	1620	Thu	12189	725 1 3319 101 04209	CW	(FN)
M12	9-1-2014	1620	Thu	12189	725 1	CW	(HFD)
M12	9-1-2014	1640	Thu	11491	725 1 3319 101 04209	CW	(FN)
M12	9-1-2014	1640	Thu	11491	725 1	CW	(HFD)
M12	9-1-2014	1700	Thu	9176	257 1 8143 78 32754	CW	(FN)

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M12	9-1-2014	1700	Thu	9176	257 1	CW	(HFD)
M12	9-1-2014	1700	Thu	9176	257 1 8143 78 32754 99275 93001 76908 35165 ... 86844 92014 42594 85855 68785 000 000	CW	(MPJ)
M12	9-1-2014	1700	Thu	10343	124 1 1290 73 64988	CW	(FN)
M12	9-1-2014	1700	Thu	10343	124 1	CW	(HFD)
M12	9-1-2014	1720	Thu	7931	257 1 8143 78 32754	CW	(FN)
M12	9-1-2014	1720	Thu	7931	257 1	CW	(HFD)
M12	9-1-2014	1720	Thu	9264	124 1 1290 73 64988	CW	(FN)
M12	9-1-2014	1720	Thu	9264	124 1	CW	(HFD)
M12	9-1-2014	1740	Thu	6904	257 1 8143 78 32754	CW	(FN)
M12	9-1-2014	1740	Thu	6904	257 1	CW	(HFD)
M12	9-1-2014	1740	Thu	8116	124 1 1290 73 64988	CW	(FN)
M12	9-1-2014	1740	Thu	8116	124 1	CW	(HFD)
M12	9-1-2014	1745	Thu	8116	i.p. ends with: ..917 37415 35959 15796 98638 000 000	CW	(MPJ)
M12	9-1-2014	1800	Thu	10343	124 1 ...	CW	(FN)
M12	9-1-2014	1820	Thu	9264	124 1 ...	CW	(FN)
M12	9-1-2014	1840	Thu	8116	124 1 6193 108 00818	CW	(FN)
M12	9-1-2014	1900	Thu	9176	257 1 ...	CW	(FN)
M12	9-1-2014	1920	Thu	7931	257 1 1513 50 14240	CW	(FN)
M12	9-1-2014	1940	Thu	6904	257 1 1513 50 14240	CW	(FN)
M12	12-1-2014	1010	Sun	13369	369 369 369 000	CW	(FN)
M12	12-1-2014	1030	Sun	14669	369 369 369 000	CW	(FN)
M12	13-1-2014	0530	Mon	4457	417 417 417 000	CW	(FN)
M12	13-1-2014	0550	Mon	5157	417 417 417 000	CW	(FN)
M12	13-1-2014	1600	Mon	11435	938 1 4065 120 71885	CW	(FN)
M12	13-1-2014	1600	Mon	11435	938 1	CW	(HFD)
M12	13-1-2014	1620	Mon	10598	938 1 4065 120 71885	CW	(FN)
M12	13-1-2014	1620	Mon	10598	938 1	CW	(HFD)
M12	13-1-2014	1640	Mon	9327	938 1 4065 120 71885	CW	(FN)
M12	13-1-2014	1640	Mon	9327	938 1	CW	(HFD)
M12	13-1-2014	1700	Mon	9176	257 1 74 07197	CW	(FN)
M12	13-1-2014	1700	Mon	9176	257 1 2855 74 07197 19717.....81715 59581 000 000	CW	(Topol)
M12	13-1-2014	1720	Mon	7931	257 1 74 07197	CW	(FN)
M12	13-1-2014	1720	Mon	7931	257 1 2855 74 07197 19717.....81715 59581 000 000	CW	(Topol)
M12	13-1-2014	1740	Mon	6904	257 1 74 07197	CW	(FN)
M12	13-1-2014	1740	Mon	6904	257 1 2855 74 07197 19717.....81715 59581 000 000	CW	(Topol)
M12	13-1-2014	1820	Mon	7931	257 1 8273 54 96805	CW	(FN)
M12	13-1-2014	1820	Mon	7931	257 1 8273 54 96805 99419.....39681 81221 000 000	CW	(Topol)
M12	13-1-2014	1840	Mon	6904	257 1 8273 54 96805	CW	(FN)
M12	13-1-2014	1840	Mon	6904	257 1 8273 54 96805 99419.....39681 81221 000 000	CW	(Topol)
M12	13-1-2014	1920	Mon	7931	257 1 841 58 45615	CW	(FN)
M12	13-1-2014	1940	Mon	6904	257 1 841 58 45615	CW	(FN)
M12	14-1-2014	1830	Tue	10343	124 1 ...	CW	(FN)
M12	14-1-2014	1830	Tue	10343	124 1	CW	(HFD)
M12	14-1-2014	1850	Tue	9264	124 1 ...	CW	(FN)
M12	14-1-2014	1850	Tue	9264	124 1	CW	(HFD)
M12	14-1-2014	1910	Tue	8116	124 1 1803 52 717..	CW	(FN)
M12	14-1-2014	1910	Tue	8116	124 1	CW	(HFD)
M12	15-1-2014	1700	Wed	8047	463 1 3014 86 05830	CW	(FN)
M12	15-1-2014	1700	Wed	8047	463 1	CW	(HFD)
M12	15-1-2014	1720	Wed	6802	463 1 3014 86 05830	CW	(FN)
M12	15-1-2014	1720	Wed	6802	463 1	CW	(HFD)
M12	15-1-2014	1740	Wed	5788	463 1 3014 86 05830	CW	(FN)
M12	15-1-2014	1740	Wed	5788	463 1	CW	(HFD)
M12	15-1-2014	1830	Wed	11435	938 1	CW	(HFD)
M12	15-1-2014	1850	Wed	10598	938 1 ...	CW	(FN)
M12	15-1-2014	1850	Wed	10598	938 1	CW	(HFD)
M12	15-1-2014	1910	Wed	9327	938 1 ...	CW	(FN)
M12	15-1-2014	1910	Wed	9327	938 1	CW	(HFD)
M12	15-1-2014	2200	Wed	5361	340 340 340 000	CW	(FN)
M12	15-1-2014	2220	Wed	4461	340 340 340 000	CW	(FN)
M12	16-1-2014	0730	Thu	5284	277 277 277 000	CW	(FN)

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M12	16-1-2014	0750	Thu	5784	277 277 277 000	CW	(FN)
M12	16-1-2014	1010	Thu	13369	369 369 369 000	CW	(FN)
M12	16-1-2014	1030	Thu	14669	369 369 369 000	CW	(FN)
M12	16-1-2014	1600	Thu	13386	725 1 7851 113 88182	CW	(FN)
M12	16-1-2014	1620	Thu	12189	725 1 7851 113 88182	CW	(FN)
M12	16-1-2014	1640	Thu	11491	725 1 7851 113 88182	CW	(FN)
M12	16-1-2014	1700	Thu	9176	257 1 9771 98 06107	CW	(FN)
M12	16-1-2014	1700	Thu	10343	124 1 8687 72 80606	CW	(FN)
M12	16-1-2014	1720	Thu	7931	257 1 9771 98 06107	CW	(FN)
M12	16-1-2014	1720	Thu	9264	124 1 8687 72 80606	CW	(FN)
M12	16-1-2014	1740	Thu	6904	257 1 9771 98 06107	CW	(FN)
M12	16-1-2014	1740	Thu	8116	124 1 8687 72 80606	CW	(FN)
M12	16-1-2014	1800	Thu	10343	124 1 841 58 45615	CW	(FN)
M12	16-1-2014	1820	Thu	9264	124 1 841 58 45615	CW	(FN)
M12	16-1-2014	1840	Thu	8116	124 1 841 58 45615	CW	(FN)
M12	16-1-2014	1900	Thu	9176	257 1 …	CW	(FN)
M12	16-1-2014	1900	Thu	9176	257 1	CW	(HFD)
M12	16-1-2014	1920	Thu	7931	257 1 2002 50 00307	CW	(FN)
M12	16-1-2014	1920	Thu	7931	257 1	CW	(HFD)
M12	16-1-2014	1940	Thu	6904	257 1 2002 50 00307	CW	(FN)
M12	16-1-2014	1940	Thu	6904	257 1	CW	(HFD)
M12	20-1-2014	0530	Mon	4457	417 417 417 000	CW	(HFD)
M12	20-1-2014	0550	Mon	5157	417 417 417 000	CW	(HFD)
M12	20-1-2014	1600	Mon	11435	938 1 2233 107 09203	CW	(FN)
M12	20-1-2014	1620	Mon	10598	938 1 2233 107 09203	CW	(FN)
M12	20-1-2014	1640	Mon	9327	938 1 2233 107 09203	CW	(FN)
M12	20-1-2014	1700	Mon	9176	257 1 3354 76 39516	CW	(FN)
M12	20-1-2014	1720	Mon	7931	257 1 3354 76 39516	CW	(FN)
M12	20-1-2014	1740	Mon	6904	257 1 3354 76 39516	CW	(FN)
M12	20-1-2014	1800	Mon	9176	257 1 3369 70 69693	CW	(FN)
M12	20-1-2014	1820	Mon	7931	257 1 3369 70 69693	CW	(FN)
M12	20-1-2014	1840	Mon	6904	257 1 3369 70 69693	CW	(FN)
M12	20-1-2014	1900	Mon	9176	257 1 6695 103 96674	CW	(FN)
M12	20-1-2014	1920	Mon	7931	257 1 6695 103 96674	CW	(FN)
M12	20-1-2014	1940	Mon	6904	257 1 6695 103 96674	CW	(FN)
M12	22-1-2014	1720	Wed	6802	5F msg in progress at 30 wpm ends TTT TTT	CW	(PPA)
M12	22-1-2014	2200	Wed	5361	340 1 3953 85 31656	CW	(FN)
M12	22-1-2014	2220	Wed	4461	340 1 3953 85 31656	CW	(FN)
M12	22-1-2014	2240	Wed	4061	340 1 3953 85 31656	CW	(FN)
M12	23-1-2014	0730	Thu	5284	277 277 277 000	CW	(FN)
M12	23-1-2014	0750	Thu	5784	277 277 277 000	CW	(FN)
M12	23-1-2014	1010	Thu	13369	369 1 8251 93 30723	CW	(FN)
M12	23-1-2014	1030	Thu	14669	369 1 8251 93 30723	CW	(FN)
M12	23-1-2014	1050	Thu	15969	369 1 8251 93 30723	CW	(FN)
M12	23-1-2014	1600	Thu	13386	725 1 4851 104 43643	CW	(FN)
M12	23-1-2014	1620	Thu	12189	725 1 4851 104 43643	CW	(FN)
M12	23-1-2014	1640	Thu	11491	725 1 4851 104 43643	CW	(FN)
M12	23-1-2014	1700	Thu	9176	257 1 17784 76 29341	CW	(FN)
M12	23-1-2014	1700	Thu	10343	124 1 …	CW	(FN)
M12	23-1-2014	1720	Thu	7931	257 1 17784 76 29341	CW	(FN)
M12	23-1-2014	1720	Thu	9264	124 1 …	CW	(FN)
M12	23-1-2014	1740	Thu	6904	257 1 17784 76 29341	CW	(FN)
M12	23-1-2014	1740	Thu	8116	124 1 9382 72 48746	CW	(FN)
M12	23-1-2014	1800	Thu	10343	124 1 …	CW	(FN)
M12	23-1-2014	1820	Thu	9264	124 1 4247 109 81101	CW	(FN)
M12	23-1-2014	1840	Thu	8116	124 1 4247 109 81101	CW	(FN)
M12	23-1-2014	1900	Thu	9176	257 1 …	CW	(FN)
M12	23-1-2014	1920	Thu	7931	257 1 3985 45 98047	CW	(FN)
M12	23-1-2014	1940	Thu	6904	257 1 3985 45 98047	CW	(FN)
M12	25-1-2014	0600	Sat	5838	842 1 3953 85 31656	CW	(FN)
M12	25-1-2014	0620	Sat	7438	842 1 3953 85 31656	CW	(FN)
M12	27-1-2014	0530	Mon	4457	417 417 417 000	CW	(FN)

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M12	27-1-2014	0550	Mon	5157	417 417 417 000	CW	(FN)
M12	27-1-2014	1600	Mon	11435	938 1 3255 120 79609	CW	(FN)
M12	27-1-2014	1620	Mon	10598	938 1 3255 120 79609	CW	(FN)
M12	27-1-2014	1640	Mon	9327	938 1 3255 120 79609	CW	(FN)
M12	27-1-2014	1700	Mon	9176	257 1 4393 80 08269	CW	(FN)
M12	27-1-2014	1720	Mon	7931	257 1 4393 80 08269	CW	(FN)
M12	27-1-2014	1740	Mon	6904	257 1 4393 80 08269	CW	(FN)
M12	27-1-2014	1800	Mon	9176	257 1 4982 62 62912	CW	(FN)
M12	27-1-2014	1820	Mon	7931	257 1 4982 62 62912	CW	(FN)
M12	27-1-2014	1840	Mon	6904	257 1 4982 62 62912	CW	(FN)
M12	27-1-2014	1900	Mon	9176	257 1 4033 105 39228	CW	(FN)
M12	27-1-2014	1920	Mon	7931	257 1 4033 105 39228	CW	(FN)
M12	27-1-2014	1940	Mon	6904	257 1 4033 105 39228	CW	(FN)
M12	29-1-2014	2220	Wed	4461	340 340 340 000	CW	(FN)
M12	30-1-2014	0730	Thu	5284	277 277 277 000	CW	(FN)
M12	30-1-2014	0750	Thu	5784	277 277 277 000	CW	(FN)
M12	30-1-2014	1010	Thu	13369	369 369 369 000	CW	(FN)
M12	30-1-2014	1030	Thu	14669	369 369 369 000	CW	(FN)
M12	30-1-2014	1600	Thu	13386	725 1 4854 118 07122	CW	(FN)
M12	30-1-2014	1620	Thu	12189	725 1 4854 118 07122	CW	(FN)
M12	30-1-2014	1640	Thu	11491	725 1 4854 118 07122	CW	(FN)
M12	30-1-2014	1700	Thu	9176	257 1 3227 83 55150	CW	(FN)
M12	30-1-2014	1700	Thu	9176	257 1 3227 83 55150.....41839	CW	(Topol)
M12	30-1-2014	1700	Thu	10343	124 1 3577 78 59616	CW	(FN)
M12	30-1-2014	1720	Thu	7931	257 1 3227 83 55150	CW	(FN)
M12	30-1-2014	1720	Thu	7931	257 1 3227 83 55150.....41839	CW	(Topol)
M12	30-1-2014	1720	Thu	9264	124 1 3577 78 59616	CW	(FN)
M12	30-1-2014	1740	Thu	6904	257 1 3227 83 55150	CW	(FN)
M12	30-1-2014	1740	Thu	8116	124 1 3577 78 59616	CW	(FN)
M12	30-1-2014	1740	Thu	8116	124 1 3577 78 59616.....10901	CW	(Topol)
M12	30-1-2014	1800	Thu	10343	124 1 4980 101 88291	CW	(FN)
M12	30-1-2014	1800	Thu	10343	124 1 4980 101 88291.....99370	CW	(Topol)
M12	30-1-2014	1820	Thu	9264	124 1 4980 101 88291	CW	(FN)
M12	30-1-2014	1820	Thu	9264	124 1 4980 101 88291.....99370	CW	(Topol)
M12	30-1-2014	1840	Thu	8116	124 1 4980 101 88291	CW	(FN)
M12	30-1-2014	1920	Thu	7931	257 1...	CW	(FN)
M12	30-1-2014	1940	Thu	6904	257 1...	CW	(FN)
M14	30-1-2014	0911	Thu	13945	479 ... 139T7 139T7 91754 91754 1T796 1T796 = = 479 479 83 83 TTTTT	CW	(BCI)
M21	12-1-2014	2301	Sun	4951.5	Russian Air Defence =990302??0?????	CW	(MPJ)
M21	22-1-2014	1752	Wed	6911.5	Russian air defence =992152??8?????	CW	(PPA)
M21	24-1-2014	1540	Fri	4866	=991940??8?????	CW	(JPL-FNL)
M21	29-1-2014	2211	Wed	4951.5	Russian Air Defense =99T213??T?????	CW	(VL)
M22	2-1-2014	0139	Thu	2680	4XZ: ISR Haifa Naval VVV DE 4XZ	CW	(VL)
M22	2-1-2014	2231	Thu	4331	VVV DE 4XZ 4XZ = = AR IR NW QTN E 1 NR 75 = =	CW	(LG2)
M22	26-1-2014	0338	Sun	6607	= AR AR VVV DE 4XZ 4XZ ... NR 267 ... == TBTBT TEWTRFJ RUAWX XAOLI ...	CW	(toto-NL)
M22	26-1-2014	1935	Sun	6607	i.p. 1 NR 787 DET = NR 787 EG V EK9H ... DE 4XZ	CW	(toto-NL)
M22	28-1-2014	2240	Tue	4331	VVV DE 4XZ	CW	(VL)
M22	28-1-2014	2249	Tue	6607	VVV DE 4XZ	CW	(VL)
M22	28-1-2014	2251	Tue	2680	VVV DE 4XZ	CW	(VL)
M23	4-1-2014	2104	Sat	3658	787 repeated	CW	(GHn)
M23	5-1-2014	2104	Sun	3658	787 repeated	CW	(GHn)
M23	8-1-2014	1008	Wed	6806	i.p. 503 rptd ends with a long dash	CW	(Topol)
M23	10-1-2014	2231	Fri	3659	787 rptd ends with a long dash	CW	(JPL)
M23	11-1-2014	2040	Sat	3659	787 787 787... //3961	CW	(HFD)
M23	11-1-2014	2040	Sat	3961	787 787 787... //3659	CW	(HFD)
M23	11-1-2014	2100	Sat	3961	787 787 787 ...	CW	(FN)
M23	24-1-2014	1802	Fri	6937	642 642 642 642 = 50 50 = 5FGs = ? ? = (Message repeated) = AR	CW	(PPA)
M32	2-1-2014	1515	Thu	6776	MW5E: Russian Mil NCS: O58P QTC + MW5E 361 50 2 1905 361 = ZYU 145 = 34151 32426 32686 ... 40247 02046 145 RPT AL QLN. All msgs from 145 to 145, each bcast twice	CW	(MPJ)
M32	2-1-2014	1522	Thu	6776	MW5E: Russian Mil NCS: O58P QTC + MW5E 474 40 2 1220 474 = ZNR	CW	(MPJ)

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					145 = DDDDD HYZR▪ FChAKB … PMRWF PWPEY 145 RPT AL QLN. All msgs from 145 to 145, each bcast twice		
M32	2-1-2014	1533	Thu	6776	MW5E: Russian Mil NCS: O58P QTC + MW5E 693 40 2 1930 693 = ZLK 145 = DDDDD ÍGAMC CCDHN VCH__ … PWPEY 145 RPT AL QLN. All msgs from 145 to 145, each bcast twice	CW	(MPJ)
M32	2-1-2014	1657	Thu	4043	RMW58 DE RMW32 ZSA? K	CW	(JPL-FNL)
M32	7-1-2014	0435	Tue	5094	RIR98: Russian navy 04:35 A1A/CW Calling Sevastopol RCV DE RIR98 QSA?	CW	(PPA)
M32	7-1-2014	0438	Tue	5094	RCV: Navy Sevastopol UKR 04:38 A1A/CW Simplex traffic with RIR98	CW	(PPA)
M32	7-1-2014	0455	Tue	5114	Russian mil. 7HPM DE PTMP and 7HPM DE NU6P	CW	(PPA)
M32	7-1-2014	1743	Tue	5018	8DWZ: Russian mil. Duplex radio check with 5AHR and Y2KJ	CW	(PPA)
M32	8-1-2014	1530	Wed	5397	Russian Mil. XBNW de PRND K. …. and .A3W respond on frequency but too weak to copy	CW	(MPJ)
M32	9-1-2014	0507	Thu	5018	RJP24: Russian navy. Simplex contact RJE65 DE RJP24 QTC	CW	(PPA)
M32	9-1-2014	0507	Thu	5018	RJE65: Russian navy. RJP24 DE RJE65 QSA? QRV	CW	(PPA)
M32	10-1-2014	1819	Fri	4108	QRU? K. CK RPT K. QTC K. QRV K (Both stations on this frequency) LUKD 216 43 10 2210 216 = (see N&O 196)	CW	(JPL-FNL)
M32	12-1-2014	2320	Sun	3164	Russian Mil. YCZP de VH1U QTC K. VH1U 355 18 13 0310 355 = 002 = PPPPP ZWJXC NCZP … (Very slow inexperienced MCS)	CW	(MPJ)
M32	13-1-2014	1607	Mon	8084	MZKV DE 7CSM QRV	CW	(PPA)
M32	13-1-2014	2000	Mon	6832	KPDL DE LOSB. P4ZV DE LOSB. B3A5 DE 1UQU. 8JKX DE W9G7. TSSO DE W9G7	CW	(Topol)
M32	14-1-2014	1208	Tue	18.1	Russian Strategic Bcast. Routine msg: RDL 20475 62050 20475 62050 20475 62050 K. Series of UUUs at 1222 UTC	CW	(MPJ)
M32	14-1-2014	2201	Tue	3275	MTIB: Russian Mil. Comms check in progress with at least HHT3, OUOO, LAGI & OG5A. All reply with good signals. Simplex net	CW	(MPJ)
M32	14-1-2014	2251	Tue	5596	AONW: CIS Mil. Circular msg: 2IXV QTC + AONW 808 27 15 0030 808 = 961 = MUWE– WU–IZ EINOU … EOMUW EZV–I –TPWT RPT AL QLN + (Recipients to repeat back complete msg on landline)	CW	(MPJ)
M32	17-1-2014	0820	Fri	10933	XXX XXX WEGI WEGI 16240 NOSOROG 2861 9858	CW	(JU)
M32	17-1-2014	0830	Fri	10442	XXX XXX REA4 REA4 21915 NOSOROG 2861 9858	CW	(JU)
M32	17-1-2014	0832	Fri	14411	XXX XXX WEGI WEGI 32433 16240 NOSOROG 2861 9858	CW	(JU)
M32	17-1-2014	0907	Fri	14411	44101 68466 GAWAEC 9926 3863	CW	(JU)
M32	17-1-2014	0941	Fri	15933	VVV TACI DE TACM	CW	(DK8OK)
M32	17-1-2014	1330	Fri	6454	QLMQ DE XWZM NW QSA? OK R	CW	(Topol)
M32	17-1-2014	1610	Fri	7665	8ROC K. G2VH DE CAMU. CAMU DE G2VH	CW	(Topol)
M32	17-1-2014	1618	Fri	7673	VVVVVVVV RMW44 DE RMW32 ZSA? RMW32 ZSA4 ZZT? RMW32 OK ZZT 103	CW	(Topol)
M32	18-1-2014	0700	Sat	8114	5LG message after WLHN WLHN 096 = PPPPP …..	CW	(PPA)
M32	19-1-2014	0725	Sun	6988	Russian mil: QSX 7969 DONG DE BLNE QTC 320 37 19 1115 320 = 161 = AAAAA	CW	(PPA)
M32	19-1-2014	1448	Sun	6857	RGT77 RGT77 847 = DSLDK …..	CW	(PPA)
M32	20-1-2014	0501	Mon	6941	MN3B DE KLGW. MN3B DE MKBL	CW	(PPA)
M32	20-1-2014	0504	Mon	6832	X6Z8: Russian mil. duplex net,radio checks with MP8G and CC8U	CW	(PPA)
M32	20-1-2014	0505	Mon	6905	Russian mil. Radio checks RAN64, RQO61, RSU8	CW	(PPA)
M32	20-1-2014	0505	Mon	6983	LP9W DE AIFA. LP9W DE IO7D	CW	(PPA)
M32	20-1-2014	0507	Mon	6836	RMW46: Russian mil. radio check with RGR49 RGR87 RGR88 RGR89 RGR90 RGR91 RGR92 RGR94 RFH46	CW	(PPA)
M32	20-1-2014	0509	Mon	6836	RGR89: Russian mil. radio check with RMW46	CW	(PPA)
M32	20-1-2014	0510	Mon	6836	RGR90: Russian mil. radio check with RMW46	CW	(PPA)
M32	20-1-2014	0512	Mon	6836	RGR91: Russian mil. radio check with RMW46	CW	(PPA)
M32	20-1-2014	0513	Mon	6836	RGR94: Russian mil. radio check with RMW46	CW	(PPA)
M32	23-1-2014	1907	Thu	6869.5	VHZQ: Russian mil. duplex net radio check with YG8Y	CW	(PPA)
M32	24-1-2014	0902	Fri	10801	D8MK DE R3WS K	CW	(JPL-Sib)
M32	26-1-2014	0713	Sun	7660	VX1J: Russian mil. VX1J QTC 910 24 26 1110 910 = 893 = PPPPP	CW	(PPA)
M32	26-1-2014	1441	Sun	7637.5	KOLJ: Russian mil. KOLJ KOLJ => 5F message	CW	(PPA)
M32	27-1-2014	0521	Mon	7646	F4QJ: Russian mil. 8BY9 DE F4QJ QTC 911 28 27 0906 911 = 115 = MMMMM	CW	(PPA)
M32	28-1-2014	0822	Tue	16805	II3S DE WQFJ QSA4 K	CW	(BCI)
M32	28-1-2014	1604	Tue	7665	SVSA: Russian mil. Simplex net V38H DE SVSA QSA	CW	(PPA)
M32	31-1-2014	0515	Fri	7789	8L8V ZBS ZBW ZFF K	CW	(PPA)
M32?	17-1-2014	1601	Fri	8192	RDU: unid Russian station "RDU RDU QSY 9062"	CW	(PPA)
M32?	17-1-2014	1606	Fri	8192	Unid Russian station: RDU RDU 5FGs	CW	(PPA)
M32a	2-1-2014	1748	Thu	12431	RMP RMP RMP DE RJL99 RJL99 ZDJ AS1K	CW	(LG2)
M32a	11-1-2014	1342	Sat	14556	RMMA de RIW k. RIW ok QYT9 QWH 16958 k	CW	(JU)

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M32a	12-1-2014	2256	Sun	3353	Unid CIS Navy. RJP54 NR 659 RPT 24 43 K. (Very poor copy). Wkg RJE65	CW	(MPJ)
M32a	13-1-2014	2225	Mon	5224	RCV RCV QTC 443 113 13 2352 443 =SML= TMMI A EA–D KV	CW	(LG2)
M32a	14-1-2014	1648	Tue	8139	RGZ59 DE RCV ZZD?	CW	(PPA)
M32a	14-1-2014	1707	Tue	11000	RMMA RMMA DE RIW RIW QSA? K	CW	(LG2)
M32a	16-1-2014	1058	Thu	14556	RIW K no other traffic followed	CW	(LG2)
M32a	17-1-2014	1043	Fri	16680	RIW DE RMMA K	CW	(DK8OK)
M32a	17-1-2014	1656	Fri	5770	RGY2 RHK6 DE RWI2 QSA?	CW	(Topol)
M32a	18-1-2014	0658	Sat	8020	Russian navy. VVV RJE65 DE RIR99 ZZD	CW	(PPA)
M32a	18-1-2014	0745	Sat	8020	Russian navy. RJE65 simplex traffic with RJP24	CW	(PPA)
M32a	18-1-2014	1708	Sat	8345	VVV RCV DE RIR96 QSA? (1712z) RCV DE RIR96 QYT4 QSX 4943	CW	(Topol)
M32a	18-1-2014	1729	Sat	8345	RCV DE RIR96 QSA? QTC (1802z) VVV RCV DE RMGB QSA? QTC	CW	(Topol)
M32a	19-1-2014	1438	Sun	6877	RLO DE RIT QTC 10 6 19 1833 10 Prognoz rajone	CW	(PPA)
M32a	19-1-2014	1502	Sun	6989	RAL2: Russian naval air radio check with RMW2 RHQ2 RBL66	CW	(PPA)
M32a	25-1-2014	1630	Sat	8014	RJL99 de RCV QRR3 WRK XXX K. RCV de RJL99 OK K. Nothing further	CW	(MPJ)
M32a	27-1-2014	0611	Mon	7786	Russian navy. VVV RHY73 DE RAL65 QSA? and RAL65 DE RHY73 QSA2 QRV K	CW	(PPA)
M32a	27-1-2014	1624	Mon	7786	Russian navy. RMGB DE RBDE QSA? QTC RBDE DE RMGB	CW	(PPA)
M32a	28-1-2014	0952á	Tue	14556	DE RIW K	CW	(LG2)
M32a	28-1-2014	1042	Tue	110000	RCRE RCRE DE RIW RIW K AS K	CW	(LG2)
M32a	28-1-2014	1714	Tue	7566	RFH70 DE RCV QSA1 K	CW	(JPL-FNL)
M32a	29-1-2014	0635	Wed	7566	RHL80 RHL80 RHL80 DE RCV QSA3 K	CW	(VL)
M32a	31-1-2014	0450	Fri	7763	RIR98: Russian navy RCV DE RIR98 QTC	CW	(PPA)
M32a	31-1-2014	0522	Fri	7673	RMW32: Russian Navy. RMW32 CZT CK RMW32 253 1 31 0910 = 999 = 54678	CW	(PPA)
M32a	31-1-2014	1600	Fri	7763	RCV: Navy Sevatopol Simplex frequency RIR98 DE RCV	CW	(PPA)
M32c	2-1-2014	0200	Thu	6529	Russian AF. "Z" marker	CW	(Tom)
M32c	2-1-2014	2341	Thu	2737	REA4: RUS Russian Strategic Air "REA4 K"	CW	(VL)
M32c	18-1-2014	0656	Sat	8070	Russian Air Force: REA wkg RNM2 on 5746 khz	Baudot 50/500	(PPA)
M32c	28-1-2014	1120	Tue	8112	"W" markers	CW	(Tom)
M32c	28-1-2014	1140	Tue	8112	"W" markers	CW	(Tom)
M32c	30-1-2014	1200	Thu	8112	Marker "W"	CW	(Tom)
M32c	30-1-2014	1211	Thu	8112	LGXF DE IWV4 K. IWV4 QRV K. RPT 2 K. IWV4 = 571 226 398 C? K. IWV4 = 571 226 399 C? K	CW	(Tom)
M32c	30-1-2014	1220	Thu	8112	Marker "W"	CW	(Tom)
M32c	30-1-2014	1240	Thu	8112	Marker "W"	CW	(Tom)
M32c	30-1-2014	1522	Thu	8112	Marker "W" ends with "K"	CW	(MPJ)
M32c	30-1-2014	1540	Thu	8112	Russian Air Forces markers "W" and "G"	CW	(MPJ)
M32c	30-1-2014	1540	Thu	8112	Markers "G" and "W"	CW	(MPJ)
M32c	30-1-2014	1600	Thu	8112	Marker "G"	CW	(MPJ)
M32c	30-1-2014	1612	Thu	8112	Marker "V"	CW	(MPJ)
M32c	30-1-2014	1620	Thu	8112	Marker "G"	CW	(MPJ)
M32c	30-1-2014	1640	Thu	8112	Marker "G"	CW	(MPJ)
M32c	30-1-2014	1700	Thu	8112	Markers "G" and "W"	CW	(MPJ)
M42	1-1-2014	1000	Wed	19313	Russian Intel. Link ID 53277 Msg Type 07145	FSK200/1000	(PH)
M42	1-1-2014	1010	Wed	16348	Russian Intel. Link ID 53277 Msg Type 07145	FSK200/1000	(PH)
M42	1-1-2014	1020	Wed	14494	Russian Intel. Link ID 53277 Msg Type 07145	FSK200/1000	(PH)
M42	1-1-2014	1200	Wed	16329	Russian Intel. Link ID 53277 Msg Type 07145	FSK200/1000	(PH)
M42	1-1-2014	1210	Wed	14826	Russian Intel. Link ID 53277 Msg Type 07145	FSK200/1000	(PH)
M42	1-1-2014	1230	Wed	12166	Russian Intel. Link ID 53277 Msg Type 07145	FSK200/1000	(PH)
M42	2-1-2014	2000	Thu	5793	Russian intel/diplo 7 58	FSK 200/500	(HFD)
M42	2-1-2014	2010	Thu	4538	Russian intel/diplo 7 58	FSK 200/500	(HFD)
M42	2-1-2014	2020	Thu	3827	Russian intel/diplo 7 58	FSK 200/500	(HFD)
M42	4-1-2014	1300	Sat	18526	Russian intel/diplo 6 54	FSK 200/500	(HFD)
M42	4-1-2014	1310	Sat	16142	Russian intel/diplo 6 54	FSK 200/500	(HFD)
M42	4-1-2014	1320	Sat	14674	Russian intel/diplo 6 54	FSK 200/500	(HFD)
M42	5-1-2014	1220	Sun	19880	Russian diplo	CROWD-36	(PH)
M42	7-1-2014	----	Tue	18769	Russian Intel. Msg on link ID 16404 Msg Type 07145	FSK200/1000	(PH)
M42	7-1-2014	0715	Tue	6857	Russian Gov. 102 100 7 0801 8638 = 54238 76286 28197 ... 98120 22215 30008 =100= confirmed in CW with CFM NIL K SK	Baudot 50/500	(KK)
M42	9-1-2014	0230	Thu	14880	Russian Intel. Msgs on links 13366, 41272, 37665, 28451, 41008, 14755, 41018, 29977	FSK 200/1000	(Dan)
M42	9-1-2014	0519	Thu	5092	LENJ: Russian Gov. VVV VVV LTJQ DE LENJ QSA4 QSA? QTC1 ZZC ZVP into 5F RTTY msg with =50= group count	Baudot 50/500 + CW	(PPA)

enigma	date	UTC	day	frequency	remarks	mode	contributor
M42	10-1-2014	0150	Fri	16320	Russian Intel. Msgs on links 55042, 41018	FSK 200/1000	(Dan)
M42	10-1-2014	0230	Fri	14880	Russian Intel. Msgs on links 26732, 40986, 40850, 01323, 59642	FSK 200/1000	(Dan)
M42	13-1-2014	0150	Mon	16320	Russian Intel. Msgs on links 41087, 32803, 02422, 41018	FSK 200/1000	(Dan)
M42	13-1-2014	0230	Mon	14880	Russian Intel. Msgs on links 13366, 41018, 61567, 35891, 41023, 32826	FSK 200/1000	(Dan)
M42	13-1-2014	1115	Mon	16132	Russian intel. Link ID 36882	FSK 200/1000	(LG2)
M42	14-1-2014	0150	Tue	16320	Russian Intel. Msgs on links 61502, 00880	FSK 200/1000	(Dan)
M42	14-1-2014	0230	Tue	14880	Russian Intel. Msgs on links 05183, 41018, 35576, 00880, 37809, 40984	FSK 200/1000	(Dan)
M42	14-1-2014	0802	Tue	18277	Russian diplo	CROWD-36	(PH)
M42	14-1-2014	0807	Tue	18484	Russian diplo	CROWD-36	(PH)
M42	14-1-2014	1001	Tue	18277	Russian diplo	CROWD-36	(PH)
M42	14-1-2014	1748	Tue	8108	Russian diplo	CROWD-36	(PPA)
M42	16-1-2014	0150	Thu	16320	Russian Intel. Msgs on links 57573, 08433	FSK 200/1000	(Dan)
M42	16-1-2014	0230	Thu	14880	Russian Intel. Msgs on links 40976, 45296, 62480, 00078, 41018, 14178, 62480	FSK 200/1000	(Dan)
M42	17-1-2014	0150	Fri	16320	Russian Intel. Msgs on links 13876, 61498, 23020, 10996, 49296, 32382, 41018	FSK 200/1000	(Dan)
M42	17-1-2014	0230	Fri	14880	Russian Intel. Msgs on links 13876, 41018, 61498, 33675, 41086	FSK 200/1000	(Dan)
M42	20-1-2014	0150	Mon	16320	Russian Intel. Msgs on links 13366, 13367, 61498, 41018, 00059, 57519, 52938, 53615, 41023, 61816	FSK 200/1000	(Dan)
M42	20-1-2014	0230	Mon	14880	Russian Intel. Msgs on links 13374, 41016, 41018	FSK 200/1000	(Dan)
M42	20-1-2014	0548	Mon	6830	RWI: Russian PTT RYF2 DE RWI QSA?	Baudot 50/500	(PPA)
M42	21-1-2014	0500	Tue	6987	Russian diplo	CROWD-36	(PPA)
M42	21-1-2014	1653	Tue	9143	Russian Intel. Link 20501, Msg Nr 130, Type 07145.	FSK 200/1000	(MPJ)
M42	23-1-2014	0150	Thu	16320	Russian Intel. Msgs on links 31840, 40972, 61660	FSK 200/1000	(Dan)
M42	23-1-2014	0230	Thu	14880	Russian Intel. Msgs on links 13876, 41018, 62392, 20580, 61915, 41008, 53193	FSK 200/1000	(Dan)
M42	23-1-2014	1829	Thu	6933	Russian diplo	CROWD-36	(PPA)
M42	24-1-2014	0150	Fri	16320	Russian Intel/diplo. Msgs on links 61499, 29822	FSK 200/1000	(Dan)
M42	24-1-2014	0230	Fri	14880	Russian Intel/diplo. Msgs on links 13374, 00000, 29750, 12310, 00127, 24634, 08250, 43119	FSK 200/1000	(Dan)
M42	25-1-2014	0645	Sat	6925	CIS Gov. PRAT DE LKDW QSA QRV into RTTY 5FG message using =50= group count	CW + Baudot 50/500	(PPA)
M42	25-1-2014	1223	Sat	19880	Russian diplo	CROWD-36	(PH)
M42	25-1-2014	1542	Sat	18689	Russian Intel link id 32821	FSK 200/1000	(MCO)
M42	25-1-2014	1550	Sat	16156	Russian intel/diplo Link ID 32821	FSK 200/1000	(PH)
M42	25-1-2014	1556	Sat	16156	Russian Intel link id 32821	FSK 200/1000	(MCO)
M42	25-1-2014	1820	Sat	5387	Russian intel/diplo 6 24	FSK 200/500	(HFD)
M42	25-1-2014	1830	Sat	4572	Russian intel/diplo 6 24	FSK 200/500	(HFD)
M42	26-1-2014	1525	Sun	16308	Russian intel/diplo. Link id 32821	FSK 200/1000	(MCO)
M42	26-1-2014	1734	Sun	7675	Russian diplo	CROWD-36	(PPA)
M42	27-1-2014	0150	Mon	16320	Russian Intel. Msgs on links 16740, 41000	FSK 200/1000	(Dan)
M42	27-1-2014	0230	Mon	14880	Russian Intel. Msgs on links 13366, 41018, 41016, 40986, 16740, 62783, 40238	FSK 200/1000	(Dan)
M42	27-1-2014	0547	Mon	7635	RWA50: Russian PtP station VVV VVV RLC2 DE RWA50 QSA?	RUS-ARQ 100/500	(PPA)
M42	28-1-2014	0150	Tue	16320	Russian intel/diplo. Msgs on links 53016, 50444	FSK 200/1000	(Dan)
M42	28-1-2014	0230	Tue	14880	Russian Intel/diplo. Msgs on links 16740, 41338, 41018, 26201, 29631, 49466, 57402	FSK 200/1000	(Dan)
M42	29-1-2014	0150	Wed	16320	Russian Intel/diplo. Msgs on links 13428	FSK 200/1000	(Dan)
M42	29-1-2014	0230	Wed	14880	Russian Intel/diplo. Msgs on links 13873, 41018, 05649	FSK 200/1000	(Dan)
M42	30-1-2014	0150	Thu	16320	Russian Intel/diplo. Msgs on links 07550, 49135	FSK 200/1000	(Dan)
M42	30-1-2014	0230	Thu	14880	Russian Intel/diplo. Msgs on links 41018, 06647, 41022, 00019, 41018, 24873	FSK 200/1000	(Dan)
M42	30-1-2014	1745	Thu	7760	Russian diplo	CROWD-36	(PPA)
M42	31-1-2014	0150	Fri	16320	Russian Intel/diplo. Msgs on links 01150, 31518, 40986, 61469, 08318	FSK 200/1000	(Dan)
M42	31-1-2014	0230	Fri	14880	Russian Intel/diplo. Msgs on links 57093, 09848, 03776, 40968, 32826, 22530, 41018, 22530	FSK 200/1000	(Dan)
M42a	30-1-2014	1800	Thu	7697	GRU hfdf net "VVV 3K (30 Jan 2014)(PPA)	CW	(PPA)
M51	14-1-2014	1556	Tue	5452	5LGs ending 1 E S26:59 1986 BT	CW	(LG2)
M51	16-1-2014	1645	Thu	9224	5FGs ending BT NR 67 J 16 17:37:3 1986 BT	CW	(LG2)
M51	19-1-2014	0755	Sun	6825	FAV22: French military Favieres VVV VVV DE FAV22 QLH 3881/6825	CW	(PPA)
M51	19-1-2014	1206	Sun	10795	5FGs ending BT NR 05 J 15 13:13:06 1986 BT	CW	(LG2)
M51	19-1-2014	1320	Sun	6825	FAV22: CSTEI, FaviÞres = NR10 J 15 14:19:57 1986 = FNHTV FVYBJ BVYGP ...	CW	(MPJ)
M51	22-1-2014	1109	Wed	7535	5LGs ending BT NB J 22 12:09:02 1986 BT	CW	(LG2)

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M51	22-1-2014	2021	Wed	3164	CSTEI FaviÞres/Vernon. NR 20 J 22 21:21:30 1986 = XOCQF EOURC HZDEN ...	CW	(MPJ)
M51	24-1-2014	1033	Fri	5453	French CSTEI FaviÞres/Vernon NR 12 J 24 11:32:11 1986 = CNSRJ LXZEW XDGYA ...	CW	(MPJ)
M51	26-1-2014	0254	Sun	3881	i.p FRJUR HQBXF RFKYY ... BT NR 57 J 23 03:58:17 1986 BT	CW	(toto-NL)
M51	27-1-2014	2136	Mon	2810	5LGs ends BT NR 43 J 27 22:38:18 1986 BT	CW	(LG2)
M51	28-1-2014	0018	Tue	4440	correction. i.p. BT IEFR 9 J 2? 01:20:38 1986 BT ZPRY NBPZR EGRHYB	CW	(toto-NL)
M51	28-1-2014	0018	Tue	4440	i.p. 4XZ, ..OMSCD ADUXK BRJAV GLAQG LBXID SVMJN..	CW	(toto-NL)
M89	1-1-2014	0134	Wed	7582	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
M89	1-1-2014	1358	Wed	3797	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
M89	1-1-2014	1358	Wed	4512	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
M89	1-1-2014	1402	Wed	4225	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL)
M89	1-1-2014	1402	Wed	5500	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL)
M89	1-1-2014	1410	Wed	6666	ZGV. DE K8CJ K. QSB QSY CODE 2222 K. R QSB A QSY CODE 2222 K (see N&O 196)	CW	(JPL)
M89	2-1-2014	0220	Thu	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //10640	CW	(JPL)
M89	2-1-2014	0220	Thu	10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
M89	2-1-2014	1056	Thu	5588	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	2-1-2014	1103	Thu	3797	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
M89	2-1-2014	1103	Thu	4512	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
M89	2-1-2014	1107	Thu	7777	In tfc: TNT6 635N 4A5T (Cont'd) AR	CW	(JPL)
M89	2-1-2014	1120	Thu	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
M89	2-1-2014	1120	Thu	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //4860	CW	(JPL)
M89	2-1-2014	1620	Thu	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
M89	2-1-2014	1620	Thu	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //4860	CW	(JPL)
M89	2-1-2014	1650	Thu	5657	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
M89	2-1-2014	1654	Thu	3797	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
M89	2-1-2014	1654	Thu	4512	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
M89	2-1-2014	1706	Thu	3642	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
M89	2-1-2014	1818	Thu	3642	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
M89	2-1-2014	1819	Thu	5657	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
M89	2-1-2014	1935	Thu	3642	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
M89	2-1-2014	2146	Thu	3797	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
M89	2-1-2014	2146	Thu	4512	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
M89	2-1-2014	2147	Thu	5657	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
M89	2-1-2014	2304	Thu	3330	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	2-1-2014	2307	Thu	3642	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
M89	2-1-2014	2308	Thu	4512	V H2FL (x3) DE DRV8 (x2) (Cont'd) //6773	CW	(JPL)
M89	2-1-2014	2308	Thu	6773	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
M89	3-1-2014	0153	Fri	6773	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
M89	3-1-2014	0830	Fri	16720	V WZG6 WZG6 WZG6 DE 4VTG 4VTG	CW	(PPA)
M89	3-1-2014	1014	Fri	5588	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	3-1-2014	1018	Fri	3797	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
M89	3-1-2014	1018	Fri	4512	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
M89	3-1-2014	1020	Fri	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //10640	CW	(JPL)
M89	3-1-2014	1020	Fri	10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
M89	3-1-2014	1026	Fri	6666	In tfc: AGN RM AGN R BT BT A646 TD6U 4AUT (See N&O 196)	CW	(JPL)
M89	3-1-2014	1038	Fri	8072	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
M89	3-1-2014	1044	Fri	5801	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
M89	3-1-2014	1044	Fri	10180	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
M89	3-1-2014	1051	Fri	6847	In tfc: AR OK ... NR 24 Q (see N&O 196)	CW	(JPL)
M89	3-1-2014	1105	Fri	5657	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
M89	3-1-2014	1543	Fri	3330	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	3-1-2014	1545	Fri	3797	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
M89	3-1-2014	1545	Fri	4512	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
M89	3-1-2014	1547	Fri	5657	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
M89	3-1-2014	1720	Fri	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
M89	3-1-2014	1720	Fri	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //4860	CW	(JPL)
M89	3-1-2014	1812	Fri	5657	V GKLO GKLO GKLO DE TYUI TYUI	CW	(PPA)
M89	3-1-2014	1907	Fri	3330	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	3-1-2014	1910	Fri	3642	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
M89	3-1-2014	1911	Fri	3797	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)

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M89	3-1-2014	1911	Fri	4512	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
M89	3-1-2014	1912	Fri	5657	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
M89	3-1-2014	1933	Fri	3642	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
M89	3-1-2014	1933	Fri	7602	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
M89	3-1-2014	2147	Fri	5657	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
M89	4-1-2014	0029	Sat	6773	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
M89	4-1-2014	0040	Sat	6666	In tfc: T6D4 DN47 AR AR K. OK QSL 0845 K. Both stations on this frequency	CW	(JPL)
M89	4-1-2014	2040	Sat	7602	v DKG6 de 3A7D	CW	(Lio)
M89	4-1-2014	2123	Sat	6840	v Q2M de NYZ	CW	(Lio)
M89	4-1-2014	2145	Sat	5657	v GKLO de TYUI	CW	(Lio)
M89	6-1-2014	1625	Mon	5657	v GKLO GKLO GKLO de TYUI TYUI	CW	(FN)
M89	6-1-2014	1711	Mon	5657	V GKLO GKLO GKLO de TYUI TYUI	CW	(GSN)
M89	6-1-2014	1930	Mon	5657	V GKLO de TYUI	CW	(MPJ)
M89	7-1-2014	1350	Tue	5657	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
M89	7-1-2014	1646	Tue	3330	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	7-1-2014	1646	Tue	5657	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
M89	7-1-2014	1648	Tue	3642	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
M89	7-1-2014	1651	Tue	3797	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
M89	7-1-2014	1651	Tue	4512	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
M89	7-1-2014	1655	Tue	4225	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL)
M89	7-1-2014	1655	Tue	5500	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL)
M89	7-1-2014	1658	Tue	5657	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
M89	8-1-2014	1403	Wed	4132	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
M89	8-1-2014	1412	Wed	3642	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
M89	8-1-2014	1418	Wed	3820	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	8-1-2014	1418	Wed	5657	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	8-1-2014	1525	Wed	7582	v 7NPE 7NPE 7NPE de QV5B QV5B	CW	(FN)
M89	8-1-2014	1648	Wed	4132	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
M89	8-1-2014	1651	Wed	3820	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	8-1-2014	1651	Wed	5657	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	8-1-2014	1653	Wed	3797	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
M89	8-1-2014	1655	Wed	3642	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
M89	8-1-2014	1704	Wed	3820	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	8-1-2014	1704	Wed	5657	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	8-1-2014	1709	Wed	3797	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
M89	8-1-2014	1709	Wed	4512	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
M89	8-1-2014	1714	Wed	3330	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	9-1-2014	0225	Thu	8110	In tfc: 3DAT 656A 55TD T7T7 T4U5 (Cont'd) III BT .... AR (0228z silent) //	CW	(JPL)
M89	9-1-2014	0226	Thu	7582	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW	(JPL)
M89	9-1-2014	1411	Thu	3330	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	9-1-2014	1416	Thu	3820	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
M89	9-1-2014	1417	Thu	3797	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
M89	9-1-2014	1417	Thu	4512	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
M89	9-1-2014	1420	Thu	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
M89	9-1-2014	1420	Thu	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //4860	CW	(JPL)
M89	9-1-2014	1429	Thu	3642	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
M89	9-1-2014	1429	Thu	7602	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
M89	9-1-2014	1440	Thu	3820	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
M89	9-1-2014	1444	Thu	4132	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
M89	9-1-2014	1920	Thu	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
M89	9-1-2014	1920	Thu	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //4860	CW	(JPL)
M89	9-1-2014	1925	Thu	3330	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	9-1-2014	1926	Thu	7602	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
M89	9-1-2014	1927	Thu	3797	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
M89	9-1-2014	1927	Thu	4512	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
M89	9-1-2014	1928	Thu	3820	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
M89	9-1-2014	1934	Thu	4132	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
M89	9-1-2014	1936	Thu	3642	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
M89	9-1-2014	2035	Thu	4886	v JKDJ JKDJ JKDJ de SLBC SLBC	CW	(FN)
M89	10-1-2014	0202	Fri	5801	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
M89	10-1-2014	0202	Fri	10180	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)

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M89	10-1-2014	0206	Fri	8071	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
M89	10-1-2014	1227	Fri	5515	In tfc: T3ND AR K. ..37. 7A57 6.TN56 T.. (Cont'd mostly unreadable)	CW	(JPL)
M89	10-1-2014	1232	Fri	3820	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	10-1-2014	1232	Fri	5657	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	10-1-2014	1237	Fri	3642	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
M89	10-1-2014	1237	Fri	7602	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
M89	10-1-2014	1248	Fri	3797	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
M89	10-1-2014	1248	Fri	4512	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
M89	10-1-2014	1300	Fri	4225	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
M89	10-1-2014	1303	Fri	3820	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	10-1-2014	1303	Fri	5657	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	10-1-2014	1420	Fri	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
M89	10-1-2014	1420	Fri	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //4860 I	CW	(JPL)
M89	10-1-2014	1426	Fri	4225	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
M89	10-1-2014	1427	Fri	3797	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
M89	10-1-2014	1427	Fri	4512	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
M89	10-1-2014	1430	Fri	7777	In tfc: 6NAN UAA5 A4D4 D47T (Cont'd) R = U53N AR. AGN. = 34A5 AR. R R SK G	CW	(JPL)
M89	10-1-2014	1804	Fri	3330	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	10-1-2014	1806	Fri	3642	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
M89	10-1-2014	1806	Fri	7602	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
M89	10-1-2014	1807	Fri	3797	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
M89	10-1-2014	1807	Fri	4512	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
M89	10-1-2014	1808	Fri	3820	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	10-1-2014	1808	Fri	5657	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	10-1-2014	1810	Fri	4225	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
M89	10-1-2014	1818	Fri	4132	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
M89	10-1-2014	1818	Fri	4886	V JKDJ (x3) DE SLBC (x2) (Cont'd) //4132	CW	(JPL)
M89	10-1-2014	1818	Fri	4886	V JKDJ (x3) DE SLBC (x2) (Cont'd) //4132	CW	(JPL)
M89	10-1-2014	1837	Fri	4132	V JKDJ (x3) DE SLBC (x2) (Cont'd) //4886	CW	(JPL)
M89	10-1-2014	1902	Fri	5657	V GKLO DE TYUI (repeated)	CW	(Topol)
M89	10-1-2014	2215	Fri	3330	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	10-1-2014	2217	Fri	3797	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
M89	10-1-2014	2217	Fri	4225	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
M89	10-1-2014	2230	Fri	4132	V JKDJ (x3) DE SLBC (x2) (Cont'd) //4886	CW	(JPL)
M89	10-1-2014	2231	Fri	3642	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
M89	10-1-2014	2231	Fri	7602	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
M89	11-1-2014	0230	Sat	4225	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
M89	11-1-2014	0234	Sat	6666	In callup: CV8D. 3BFC DE HD (Did not complete callsign) QSA 2 K (See N&O 1	CW	(JPL)
M89	11-1-2014	0930	Sat	10180	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
M89	11-1-2014	0935	Sat	16720	V WZG6 (x3) DE 4VTG (x2) (Cont'd)	CW	(JPL)
M89	11-1-2014	1048	Sat	8071	V GKLO de TYUI	CW	(MCO)
M89	11-1-2014	1419	Sat	3330	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	11-1-2014	1420	Sat	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
M89	11-1-2014	1420	Sat	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //4860	CW	(JPL)
M89	11-1-2014	1426	Sat	3820	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	11-1-2014	1426	Sat	5657	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	11-1-2014	1428	Sat	3797	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
M89	11-1-2014	1428	Sat	4512	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
M89	11-1-2014	1442	Sat	3642	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
M89	11-1-2014	1948	Sat	3820	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	11-1-2014	1948	Sat	5657	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	11-1-2014	1950	Sat	3797	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
M89	11-1-2014	1952	Sat	4132	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
M89	11-1-2014	2058	Sat	3820	v GKLO GKLO GKLO de TYUI TYUI	CW	(FN)
M89	12-1-2014	0034	Sun	6773	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
M89	12-1-2014	0123	Sun	8072	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
M89	12-1-2014	0139	Sun	3642	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5230	CW	(JPL)
M89	12-1-2014	0139	Sun	5230	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
M89	12-1-2014	0141	Sun	3723	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
M89	12-1-2014	0258	Sun	16720	V WZG6 (x3) DE 4VTG (x2) (Cont'd)	CW	(JPL)

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M89	12-1-2014	0800	Sun	16720	V WZG6 (x3) DE 4VTG (x2) (Cont'd)	CW	(JPL)
M89	12-1-2014	0801	Sun	10180	3A7D in tfc: 72/5317/5530 AR. QSL? HR WK NR 19	CW	(JPL)
M89	12-1-2014	0900	Sun	16720	v WZG6 de 4VTG	CW	(Lio)
M89	12-1-2014	1417	Sun	6666	In tfc: 4736 6.3.	CW	(JPL)
M89	12-1-2014	1426	Sun	3820	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	12-1-2014	1426	Sun	5657	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	12-1-2014	1440	Sun	4051	In tfc: DTUD 4634 (Cont'd)	CW	(JPL)
M89	12-1-2014	1702	Sun	3330	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	12-1-2014	1704	Sun	3797	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
M89	12-1-2014	1704	Sun	4512	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
M89	12-1-2014	1706	Sun	3820	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	12-1-2014	1706	Sun	5657	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	12-1-2014	1709	Sun	4225	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW	(JPL)
M89	12-1-2014	1709	Sun	5500	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW	(JPL)
M89	12-1-2014	1720	Sun	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
M89	12-1-2014	1720	Sun	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //4860	CW	(JPL)
M89	13-1-2014	0927	Mon	10180	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
M89	13-1-2014	0945	Mon	8072	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
M89	13-1-2014	1631	Mon	3330	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	13-1-2014	1633	Mon	3820	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	13-1-2014	1633	Mon	5657	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	13-1-2014	1636	Mon	3797	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
M89	13-1-2014	1636	Mon	4512	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
M89	13-1-2014	1639	Mon	5500	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
M89	13-1-2014	1647	Mon	8110	V 7NPE 7NPE 7NPE DE QV5B QV5B	CW	(PPA)
M89	13-1-2014	1812	Mon	3330	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	13-1-2014	1815	Mon	3797	DRV8 in tfc: 7TD3 N7DU A43D 4T33 737A T574 AR (see N&O 196) //4512	CW	(JPL)
M89	13-1-2014	1815	Mon	4512	DRV8 in tfc: 7TD3 N7DU A43D 4T33 737A T574 AR (see N&O 196) //3797	CW	(JPL)
M89	13-1-2014	1824	Mon	3820	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	13-1-2014	1824	Mon	5657	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	13-1-2014	1825	Mon	5500	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
M89	13-1-2014	2242	Mon	5657	V GKLO de TYUI	CW	(MPJ)
M89	14-1-2014	0006	Tue	5588	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	14-1-2014	0011	Tue	8072	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
M89	14-1-2014	0015	Tue	6773	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
M89	14-1-2014	0016	Tue	5555	In callup: IWJS IWJH DE DE 7VSN 7VSN. VVV ... DE IWJS IWJH K K K (see N&O	CW	(JPL)
M89	14-1-2014	1522	Tue	3820	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	14-1-2014	1522	Tue	5657	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	14-1-2014	1655	Tue	3330	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	14-1-2014	1657	Tue	3797	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
M89	14-1-2014	1657	Tue	4512	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
M89	14-1-2014	1659	Tue	3820	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	14-1-2014	1659	Tue	5657	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	14-1-2014	1700	Tue	3642	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
M89	14-1-2014	2141	Tue	3330	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	14-1-2014	2142	Tue	3642	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
M89	14-1-2014	2144	Tue	3797	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
M89	14-1-2014	2144	Tue	4512	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
M89	14-1-2014	2145	Tue	3820	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	14-1-2014	2145	Tue	5657	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	15-1-2014	1302	Wed	3330	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	15-1-2014	1304	Wed	7602	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
M89	15-1-2014	1306	Wed	3797	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
M89	15-1-2014	1306	Wed	4512	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
M89	15-1-2014	1308	Wed	3820	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	15-1-2014	1308	Wed	5657	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	15-1-2014	1320	Wed	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
M89	15-1-2014	1320	Wed	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //4860	CW	(JPL)
M89	16-1-2014	0139	Thu	8072	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
M89	16-1-2014	0141	Thu	6773	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
M89	16-1-2014	0202	Thu	7602	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)

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M89	16-1-2014	0203	Thu	5801	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
M89	16-1-2014	0203	Thu	10180	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
M89	16-1-2014	0937	Thu	16720	V BRH0 (x3) DE 8NGG (x2) (Cont'd)	CW	(JPL)
M89	16-1-2014	1014	Thu	5801	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
M89	16-1-2014	1014	Thu	10180	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
M89	16-1-2014	1021	Thu	8072	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
M89	16-1-2014	1032	Thu	4512	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
M89	16-1-2014	1033	Thu	5588	2SLC in tfc: MSG NR 063 CK 301 44 0116 1830 = (see N&O 196)	CW	(JPL)
M89	16-1-2014	1333	Thu	3333	In tfc: AR = N7DN D4DA D7T6 57TA UN73 UTA6 NDD5 (see N&O 196)	CW	(JPL)
M89	16-1-2014	1333	Thu	4444	In tfc: R R MSG NR 64/CCK CK 30 75 0116 2115 RMKS 4077 TO 7217 K = = AR R	CW	(JPL)
M89	16-1-2014	1339	Thu	5555	In tfc: T35N AR 05 0	CW	(JPL)
M89	16-1-2014	1356	Thu	3330	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	16-1-2014	1358	Thu	3820	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	16-1-2014	1358	Thu	5657	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	16-1-2014	1400	Thu	3797	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
M89	16-1-2014	1400	Thu	4512	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
M89	16-1-2014	1414	Thu	3642	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
M89	16-1-2014	1422	Thu	4132	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
M89	16-1-2014	1655	Thu	4132	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
M89	16-1-2014	1700	Thu	3642	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
M89	16-1-2014	1700	Thu	7602	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
M89	16-1-2014	1703	Thu	3820	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	16-1-2014	1703	Thu	5657	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	16-1-2014	1739	Thu	3330	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	16-1-2014	1741	Thu	3642	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
M89	16-1-2014	1741	Thu	4512	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
M89	16-1-2014	1742	Thu	3797	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
M89	16-1-2014	1743	Thu	3820	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	16-1-2014	1743	Thu	5657	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	17-1-2014	0040	Fri	8072	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
M89	17-1-2014	1022	Fri	5801	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
M89	17-1-2014	1022	Fri	10180	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
M89	17-1-2014	1025	Fri	8072	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
M89	17-1-2014	1044	Fri	5366	V GKLO (x3) DE TYUI (x2) (Cont'd) //8072	CW	(JPL)
M89	17-1-2014	1044	Fri	8072	V GKLO (x3) DE TYUI (x2) (Cont'd) //5366	CW	(JPL)
M89	17-1-2014	1055	Fri	3820	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	17-1-2014	1055	Fri	5657	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	17-1-2014	1057	Fri	5588	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	17-1-2014	1100	Fri	3797	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
M89	17-1-2014	1100	Fri	4512	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
M89	17-1-2014	1412	Fri	3330	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	17-1-2014	1415	Fri	3797	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
M89	17-1-2014	1415	Fri	4512	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
M89	17-1-2014	1416	Fri	3820	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	17-1-2014	1416	Fri	5657	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	17-1-2014	1429	Fri	3220	In tfc: UU5N TT5U T.. (Cont'd)	CW	(JPL)
M89	17-1-2014	1437	Fri	4132	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
M89	18-1-2014	0136	Sat	3820	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	18-1-2014	0136	Sat	5657	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	18-1-2014	0136	Sat	8072	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
M89	18-1-2014	0138	Sat	6773	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
M89	18-1-2014	0850	Sat	10180	3A7D in tfc: 6UA6 AUN6 UAT7 4D7T 54NT (Cont'd) AR	CW	(JPL)
M89	18-1-2014	0903	Sat	8072	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
M89	18-1-2014	0948	Sat	5801	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
M89	18-1-2014	0948	Sat	10180	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
M89	18-1-2014	0950	Sat	8072	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
M89	18-1-2014	1251	Sat	3330	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	18-1-2014	1252	Sat	7602	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
M89	18-1-2014	1306	Sat	3642	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
M89	18-1-2014	1306	Sat	7602	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
M89	18-1-2014	1415	Sat	3797	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)

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M89	18-1-2014	1415	Sat	4512	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
M89	18-1-2014	1902	Sat	5657	VVV GKLO DE TYUI (repeated)	CW	(Topol)
M89	18-1-2014	2123	Sat	6840	v q2m de nyz	CW	(Lio)
M89	18-1-2014	2156	Sat	5657	v gklo de tyui	CW	(Lio)
M89	18-1-2014	2335	Sat	3642	V DKG6 de 3A7D	CW	(MPJ)
M89	19-1-2014	0136	Sun	6773	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
M89	19-1-2014	0146	Sun	3642	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
M89	19-1-2014	0146	Sun	5801	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
M89	19-1-2014	0146	Sun	7602	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
M89	19-1-2014	0146	Sun	10180	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
M89	19-1-2014	0742	Sun	16720	v brho de 8ngg	CW	(Lio)
M89	19-1-2014	0757	Sun	16720	V BRH0 (x3) DE 8NGG (x2) (Cont'd)	CW	(JPL)
M89	19-1-2014	0819	Sun	8072	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
M89	19-1-2014	0820	Sun	10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
M89	19-1-2014	1413	Sun	3797	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
M89	19-1-2014	1413	Sun	4512	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
M89	19-1-2014	1414	Sun	3820	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	19-1-2014	1414	Sun	5657	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	19-1-2014	1417	Sun	5555	In chat: DE VRD5 K K CIE 2939 DE EEEEEE = = = (see N&O)	CW	(JPL)
M89	19-1-2014	1514	Sun	4132	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
M89	19-1-2014	1521	Sun	3820	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	19-1-2014	1521	Sun	5657	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	19-1-2014	1522	Sun	3837	In chat: RPT 2P03W = .. G = .. U6UU NA.. (Cont'd repeat groups) RPT K R OK	CW	(JPL)
M89	19-1-2014	2107	Sun	3330	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	19-1-2014	2110	Sun	3642	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
M89	19-1-2014	2112	Sun	3797	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
M89	19-1-2014	2112	Sun	4512	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
M89	19-1-2014	2113	Sun	3820	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	19-1-2014	2113	Sun	5657	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	19-1-2014	2116	Sun	4225	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
M89	19-1-2014	2120	Sun	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (//6840	CW	(JPL)
M89	19-1-2014	2120	Sun	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K (//4860	CW	(JPL)
M89	19-1-2014	2333	Sun	8072	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
M89	19-1-2014	2335	Sun	6773	V H2FL (x3) DE DRV8 (x2) (Cont'd) //8040	CW	(JPL)
M89	19-1-2014	2335	Sun	8040	V H2FL (x3) DE DRV8 (x2) (Cont'd) //6773	CW	(JPL)
M89	19-1-2014	2336	Sun	4225	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
M89	19-1-2014	2342	Sun	4132	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
M89	19-1-2014	2344	Sun	3642	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
M89	19-1-2014	2344	Sun	7602	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
M89	19-1-2014	2356	Sun	5555	F7KM in tfc: QSY1 QSY1 F7KM F7KM F7KM VVV F7KM F7KM /EX DME 0800 RMKS CQ/	CW	(JPL)
M89	20-1-2014	0109	Mon	6773	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
M89	20-1-2014	0112	Mon	7582	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW	(JPL)
M89	20-1-2014	0112	Mon	8110	QV5B in tfc: 73/3083 AR //7582	CW	(JPL)
M89	20-1-2014	0116	Mon	8072	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
M89	20-1-2014	0120	Mon	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //10640	CW	(JPL)
M89	20-1-2014	0120	Mon	10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
M89	20-1-2014	0125	Mon	3642	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
M89	20-1-2014	0732	Mon	16720	V BRH0 (x3) DE 8NGG (x2) (Cont'd)	CW	(JPL)
M89	20-1-2014	0758	Mon	5801	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
M89	20-1-2014	0758	Mon	10180	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
M89	20-1-2014	0812	Mon	8072	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
M89	20-1-2014	0816	Mon	8110	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
M89	20-1-2014	0818	Mon	6773	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
M89	20-1-2014	0820	Mon	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //10640	CW	(JPL)
M89	20-1-2014	0820	Mon	10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
M89	20-1-2014	0827	Mon	8072	TYUI in tfc: 22/19//550 AGN COMM 700/L.EEEEE BT COMM/.00/LZ832..2/2550 QSL	CW	(JPL)
M89	20-1-2014	1428	Mon	3330	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	20-1-2014	1428	Mon	3333	(In callup: VV NKHA R. C DE 5ULQ HW 7N K (see N&O 196)	CW	(JPL)
M89	20-1-2014	1432	Mon	3797	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)

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M89	20-1-2014	1432	Mon	4512	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
M89	20-1-2014	1434	Mon	3820	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	20-1-2014	1434	Mon	5657	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	20-1-2014	1436	Mon	5500	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
M89	20-1-2014	1516	Mon	3642	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
M89	20-1-2014	1516	Mon	7602	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
M89	20-1-2014	1518	Mon	4132	SLBC in tfc: D6N7 56.N .? VV 5DD. 6AAU TAA. 7D.. (ContÆd)	CW	(JPL)
M89	20-1-2014	1800	Mon	3642	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
M89	20-1-2014	1805	Mon	3820	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	20-1-2014	1805	Mon	5657	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	20-1-2014	2143	Mon	3820	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	20-1-2014	2143	Mon	5657	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	20-1-2014	2145	Mon	3642	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
M89	20-1-2014	2149	Mon	4886	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
M89	21-1-2014	0320	Tue	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //10640	CW	(JPL)
M89	21-1-2014	0320	Tue	10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
M89	21-1-2014	0326	Tue	8110	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
M89	21-1-2014	0329	Tue	8072	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
M89	21-1-2014	0351	Tue	5801	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
M89	21-1-2014	0351	Tue	10180	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
M89	21-1-2014	1405	Tue	3820	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	21-1-2014	1405	Tue	5657	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	21-1-2014	1407	Tue	3797	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
M89	21-1-2014	1407	Tue	4512	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
M89	21-1-2014	1410	Tue	5555	8ONQ DE DGO0 K. R QSA2 K (see N&O 196)	CW	(JPL)
M89	21-1-2014	1515	Tue	6666	(In tfc: AU75 T457 4D3T T3D4 (ContÆd) AR USB (Switched to USB Voice)	CW	(JPL)
M89	21-1-2014	1836	Tue	3330	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	21-1-2014	1838	Tue	3820	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	21-1-2014	1838	Tue	5657	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	21-1-2014	1840	Tue	3797	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
M89	21-1-2014	1840	Tue	4512	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
M89	21-1-2014	1841	Tue	5500	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
M89	21-1-2014	1845	Tue	3642	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
M89	21-1-2014	1845	Tue	7602	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
M89	21-1-2014	1942	Tue	4886	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
M89	21-1-2014	1944	Tue	3330	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	22-1-2014	0208	Wed	8072	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
M89	22-1-2014	0211	Wed	8110	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
M89	22-1-2014	0219	Wed	5801	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
M89	22-1-2014	0219	Wed	10180	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
M89	22-1-2014	0903	Wed	8072	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
M89	22-1-2014	0905	Wed	8110	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
M89	22-1-2014	0907	Wed	6773	V H2FL (x3) DE DRV8 (x2) (Cont'd) //8040	CW	(JPL)
M89	22-1-2014	0907	Wed	8040	V H2FL (x3) DE DRV8 (x2) (Cont'd) //6773	CW	(JPL)
M89	22-1-2014	0910	Wed	5555	BNGC DE XSV85 (see N&O 196)	CW	(JPL)
M89	22-1-2014	0939	Wed	5588	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	22-1-2014	0951	Wed	5801	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
M89	22-1-2014	0951	Wed	10180	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
M89	22-1-2014	1426	Wed	3330	2SLC msg: UGT COMM message	CW	(JPL)
M89	22-1-2014	1434	Wed	3797	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
M89	22-1-2014	1434	Wed	4512	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
M89	22-1-2014	1436	Wed	3820	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	22-1-2014	1436	Wed	5657	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	22-1-2014	1441	Wed	5555	In tfc: 2 K. = = D6D5 TDUA 7A7T DUA5 755A T44N 3T3A AUD6 TA65 TTTA DNUA (s	CW	(JPL)
M89	22-1-2014	1755	Wed	6840	VVV Q2M Q2M Q2M DE NYZ NYZ	CW	(PPA)
M89	22-1-2014	1857	Wed	4132	V JKDJ (x3) DE SLBC (x2) (Cont'd) //4886	CW	(JPL)
M89	22-1-2014	1857	Wed	4886	V JKDJ (x3) DE SLBC (x2) (Cont'd) //4132	CW	(JPL)
M89	22-1-2014	1858	Wed	3330	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	22-1-2014	1902	Wed	3642	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
M89	22-1-2014	1904	Wed	3820	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	22-1-2014	1904	Wed	5657	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)

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M89	22-1-2014	2142	Wed	3330	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	22-1-2014	2144	Wed	3642	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
M89	22-1-2014	2145	Wed	3797	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
M89	22-1-2014	2145	Wed	4512	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
M89	22-1-2014	2147	Wed	3820	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	22-1-2014	2147	Wed	5657	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	23-1-2014	0241	Thu	8072	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
M89	23-1-2014	0247	Thu	16720	V BRH0 (x3) DE 8NGG (x2) (Cont'd)	CW	(JPL)
M89	23-1-2014	0252	Thu	5801	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //8101	CW	(JPL)
M89	23-1-2014	0252	Thu	8101	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
M89	23-1-2014	0901	Thu	16720	V BRH0 (x3) DE 8NGG (x2) (Cont'd)	CW	(JPL)
M89	23-1-2014	0903	Thu	8072	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
M89	23-1-2014	0905	Thu	5588	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	23-1-2014	0929	Thu	5801	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //8101	CW	(JPL)
M89	23-1-2014	0929	Thu	8101	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
M89	23-1-2014	0931	Thu	6773	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW	(JPL)
M89	23-1-2014	1520	Thu	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
M89	23-1-2014	1520	Thu	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //4860	CW	(JPL)
M89	23-1-2014	1525	Thu	3330	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	23-1-2014	1527	Thu	3642	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
M89	23-1-2014	1527	Thu	7602	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
M89	23-1-2014	1529	Thu	3797	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
M89	23-1-2014	1529	Thu	4512	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
M89	23-1-2014	1530	Thu	3820	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	23-1-2014	1530	Thu	5657	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	23-1-2014	2057	Thu	4132	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
M89	23-1-2014	2102	Thu	3330	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	23-1-2014	2105	Thu	3642	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
M89	23-1-2014	2108	Thu	3820	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	23-1-2014	2108	Thu	5657	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	24-1-2014	0840	Fri	16720	V BRH0 (x3) DE 8NGG (x2) (Cont'd)	CW	(JPL)
M89	24-1-2014	0911	Fri	10350	In tfc: CCK CK 199 38 .124 170. RMKS (see N&O 196)	CW	(JPL)
M89	24-1-2014	0917	Fri	10321	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
M89	24-1-2014	0923	Fri	5801	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
M89	24-1-2014	0923	Fri	10180	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
M89	24-1-2014	0928	Fri	8072	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
M89	24-1-2014	1529	Fri	3820	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	24-1-2014	1529	Fri	5657	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	24-1-2014	1533	Fri	3797	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
M89	24-1-2014	1533	Fri	4512	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
M89	24-1-2014	1812	Fri	3330	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	24-1-2014	1816	Fri	3642	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
M89	24-1-2014	1816	Fri	7602	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
M89	24-1-2014	1819	Fri	3797	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
M89	24-1-2014	1819	Fri	4512	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)
M89	24-1-2014	1825	Fri	3820	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	24-1-2014	1825	Fri	5657	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	24-1-2014	1827	Fri	4132	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
M89	24-1-2014	1920	Fri	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K	CW	(JPL)
M89	24-1-2014	2141	Fri	3642	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
M89	24-1-2014	2143	Fri	3797	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
M89	24-1-2014	2144	Fri	3820	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	24-1-2014	2144	Fri	5657	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	24-1-2014	2147	Fri	4132	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
M89	28-1-2014	0045	Tue	8072	V GKLO (x3) DE TYUI (x2) (Cont'd)	CW	(JPL)
M89	28-1-2014	0048	Tue	7582	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW	(JPL)
M89	28-1-2014	0048	Tue	8110	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW	(JPL)
M89	28-1-2014	0104	Tue	5367	V GKLO (x3) DE TYUI (x2) (Cont'd) //8072	CW	(JPL)
M89	28-1-2014	0104	Tue	8072	V GKLO (x3) DE TYUI (x2) (Cont'd) //5367	CW	(JPL)
M89	28-1-2014	1150	Tue	3330	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	28-1-2014	1152	Tue	3797	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4512	CW	(JPL)
M89	28-1-2014	1152	Tue	4512	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW	(JPL)

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M89	28-1-2014	1154	Tue	3802	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	28-1-2014	1154	Tue	5657	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	28-1-2014	1156	Tue	5500	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
M89	28-1-2014	1202	Tue	3642	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
M89	28-1-2014	1202	Tue	7602	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
M89	28-1-2014	1448	Tue	4132	SLBC in tfc: 5341/2015309 531753 10 52 85 (see N&O 196)	CW	(JPL)
M89	28-1-2014	1449	Tue	3330	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	28-1-2014	1452	Tue	3642	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
M89	28-1-2014	1455	Tue	3802	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	28-1-2014	1455	Tue	5657	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	28-1-2014	1513	Tue	5500	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
M89	28-1-2014	1520	Tue	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K	CW	(JPL)
M89	28-1-2014	2211	Tue	4132	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
M89	28-1-2014	2234	Tue	7602	V DKG6 DE 3A7D	CW	(VL)
M89	28-1-2014	2238	Tue	3642	V DKG6 DE 3A7D	CW	(VL)
M89	29-1-2014	0004	Wed	5588	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
M89	29-1-2014	0006	Wed	3820	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	29-1-2014	0006	Wed	5657	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	29-1-2014	0009	Wed	4132	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
M89	29-1-2014	0018	Wed	3642	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
M89	29-1-2014	0018	Wed	7602	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
M89	29-1-2014	0019	Wed	6773	V H2FL (x3) DE DRV8 (x2) (Cont'd) //8040	CW	(JPL)
M89	29-1-2014	0019	Wed	8040	V H2FL (x3) DE DRV8 (x2) (Cont'd) //6773	CW	(JPL)
M89	29-1-2014	0020	Wed	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K	CW	(JPL)
M89	29-1-2014	1234	Wed	3820	V GKLO (x3) DE TYUI (x2) (Cont'd) //5657	CW	(JPL)
M89	29-1-2014	1234	Wed	5657	V GKLO (x3) DE TYUI (x2) (Cont'd) //3820	CW	(JPL)
M89	29-1-2014	2217	Wed	5657	GKLO GKLO GKLO de TYUI TYUI	CW	(VL)
M89	30-1-2014	1635	Thu	7602	v DKG6 DKG6 DKG6 de 3A7D 3A7D	CW	(FN)
M89	30-1-2014	1831	Thu	7602	V DKG6 DKG6 DKG6 DE 3A7D 3A7D	CW	(PPA)
M901	14-1-2014	0816	Tue	19292	VVV KLM KLM KLM 1/50 NW NW 5FGs QRU QRU SK	CW	(PH)
M901	18-1-2014	0813	Sat	16720	i.p. 12341 92683 14..2 (Cont'd) QRU QRU SK SK	CW	(JPL-Sib)
M97	22-1-2014	1507	Wed	10375	In tfc: SD84 SN58	CW	(JPL)
MC03	13-1-2014	1826	Mon	3333	NR 30U4 6U47 TAUD AR (see N&O 196)	CW	(JPL-HK)
MC03	19-1-2014	1408	Sun	3330	Chinese Air Defence Tracking	CW	(JPL)
MVC03	23-1-2014	1220	Thu	8072	Followed by voice on 8703 kHz	CW	(S1)
MX	1-1-2014	2202	Wed	3335	Beacon "V"	CW	(AB)
MX	1-1-2014	2202	Wed	3593.7	Beacon "D"	CW	(AB)
MX	1-1-2014	2202	Wed	3658	Beacon "V"	CW	(AB)
MX	1-1-2014	2202	Wed	4557.7	Beacon "D"	CW	(AB)
MX	1-1-2014	2202	Wed	5153.7	Beacon "D"	CW	(AB)
MX	1-1-2014	2202	Wed	5153.8	Beacon "P"	CW	(AB)
MX	1-1-2014	2202	Wed	7000	Beacon "P"	CW	(AB)
MX	1-1-2014	2202	Wed	7038.7	Beacon "D"	CW	(AB)
MX	1-1-2014	2202	Wed	7038.8	Beacon "P"	CW	(AB)
MX	1-1-2014	2202	Wed	8494.7	Beacon "D"	CW	(AB)
MX	2-1-2014	2231	Thu	4325.9	Marker "R" Izhevsk	CW	(LG2)
MX	3-1-2014	0626	Fri	4325.9	Marker "R" Izhevsk	CW	(PPA)
MX	6-1-2014	1648	Mon	4325.9	Marker "R" Izhevsk	CW	(AB)
MX	6-1-2014	1649	Mon	3335	Beacon "V" Khiva	CW	(AB)
MX	6-1-2014	1649	Mon	3658	Beacon "V" Khiva	CW	(AB)
MX	7-1-2014	1740	Tue	5153.7	Beacon "D"	CW	(PPA)
MX	7-1-2014	1806	Tue	5153.9	Beacon "S"	CW	(PPA)
MX	8-1-2014	1919	Wed	5055.5	Beacon "V" Khiva	CW	(PPA)
MX	8-1-2014	2129	Wed	4325.9	Marker "R" Izhevsk	CW	(AB)
MX	8-1-2014	2130	Wed	3335	Beacon "V" Khiva	CW	(AB)
MX	8-1-2014	2130	Wed	3658	Beacon "V" Khiva	CW	(AB)
MX	8-1-2014	2133	Wed	7000	Beacon "P" St Petersburg	CW	(AB)
MX	8-1-2014	2135	Wed	4557.7	Beacon "D" Sevastopol	CW	(AB)
MX	8-1-2014	2135	Wed	7038.8	Beacon "P" St Petersburg	CW	(AB)
MX	8-1-2014	2136	Wed	5153.9	Beacon "S" Sevoromorsk	CW	(AB)
MX	8-1-2014	2137	Wed	3593.7	Beacon "D" Sevastopol	CW	(AB)
MX	8-1-2014	2137	Wed	8494.7	Beacon "D" Sevastopol	CW	(AB)

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MX	8-1-2014	2137	Wed	8494.8	Beacon "P" St Petersburg	CW	(AB)
MX	10-1-2014	1418	Fri	7038.8	Beacon "P" Kaliningrad	CW	(MPJ)
MX	11-1-2014	1128	Sat	7038.8	Beacon "P" Kaliningrad	CW	(AB)
MX	11-1-2014	1128	Sat	7038.9	Beacon "S" Sevoromorsk	CW	(AB)
MX	11-1-2014	1128	Sat	8494.8	Beacon "P" Kliningrad	CW	(AB)
MX	11-1-2014	1128	Sat	10871.7	Beacon "D" Sevastopol	CW	(AB)
MX	11-1-2014	1128	Sat	10871.9	Beacon "S" Sevoromorsk	CW	(AB)
MX	11-1-2014	1128	Sat	10872	Beacon "C" Moscow	CW	(AB)
MX	11-1-2014	1128	Sat	13527.7	Beacon "D" Sevastopol	CW	(AB)
MX	11-1-2014	1128	Sat	13527.9	Beacon "S" Sevoromorsk	CW	(AB)
MX	11-1-2014	1128	Sat	16331.7	Beacon "D" Sevastopol	CW	(AB)
MX	11-1-2014	1128	Sat	16331.9	Beacon "S" Sevoromorsk	CW	(AB)
MX	11-1-2014	1128	Sat	16332	Beacon "C" Moscow	CW	(AB)
MX	11-1-2014	1128	Sat	20047.7	Beacon "D" Sevastopol	CW	(AB)
MX	11-1-2014	1128	Sat	20048	Beacon "C" Moscow	CW	(AB)
MX	12-1-2014	0902	Sun	20047.9	Beacon "S" Sevoromorsk	CW	(AB)
MX	12-1-2014	0904	Sun	7000	Beacon "P" Kaliningrad	CW	(AB)
MX	12-1-2014	1746	Sun	3658	Marker "V" Khiva	CW	(AB)
MX	12-1-2014	1746	Sun	4325.9	Marker "R" Izhevsk	CW	(AB)
MX	12-1-2014	2341	Sun	4557.7	Beacon "D" Sevastopol/Odessa	CW	(MPJ)
MX	12-1-2014	2342	Sun	4557.9	Beacon "S" Severomorsk	CW	(MPJ)
MX	14-1-2014	1606	Tue	5325.9	Marker "R" Izhevsk	CW	(AB)
MX	14-1-2014	1606	Tue	7000	Beacon "V" Khiva	CW	(AB)
MX	14-1-2014	2229	Tue	5153.7	Beacon "D" Odessa/Sevastopol	CW	(MPJ)
MX	18-1-2014	2338	Sat	7000	Beacon "P" Kaliningrad	CW	(MPJ)
MX	19-1-2014	1348	Sun	6917.5	Beacon "L" St.Petersburg	CW	(PPA)
MX	21-1-2014	1640	Tue	8947.8	Beacon "L" St Peterburg	CW	(MPJ)
MX	21-1-2014	1825	Tue	3335	Beacon "V" Khiva	CW	(AB)
MX	21-1-2014	1825	Tue	3658	Beacon "V" Khiva	CW	(AB)
MX	21-1-2014	1825	Tue	4325.9	Beacon "S" Sevoromorsk	CW	(AB)
MX	21-1-2014	1825	Tue	5153.7	Beacon "D" Sevastopol	CW	(AB)
MX	21-1-2014	1825	Tue	5153.8	Beacon "P" Kaliningrad	CW	(AB)
MX	21-1-2014	1825	Tue	5153.9	Beacon "S" Sevormorsk	CW	(AB)
MX	21-1-2014	1825	Tue	5154	Beacon "C" Moscow	CW	(AB)
MX	21-1-2014	1825	Tue	6917.6	Beacon "L" St Petersburg	CW	(AB)
MX	21-1-2014	1825	Tue	7000	Beacon "V" Khiva	CW	(AB)
MX	21-1-2014	1825	Tue	7038.7	Beacon "D" Sevastopol	CW	(AB)
MX	21-1-2014	1825	Tue	7038.8	Beacon "P" Kaliningrad	CW	(AB)
MX	21-1-2014	1825	Tue	7038.9	Beacon "S" Sevastopol	CW	(AB)
MX	21-1-2014	1825	Tue	8494.9	Beacon "S" Sevastopol	CW	(AB)
MX	22-1-2014	1205	Wed	16331.7	Beacon "D" Odessa/Sevastopol	CW	(MPJ)
MX	22-1-2014	1206	Wed	16331.9	Beacon "S" Severomorsk	CW	(MPJ)
MX	22-1-2014	1207	Wed	16332	Beacon "C" Moscow	CW	(MPJ)
MX	25-1-2014	0653	Sat	5153.9	Beacon "S" Sevoromorsk	CW	(AB)
MX	25-1-2014	0653	Sat	6917.6	Beacon "L" St Petersburg	CW	(AB)
MX	25-1-2014	0653	Sat	7038.9	Beacon "S" Sevoromorsk	CW	(AB)
MX	25-1-2014	0653	Sat	10871.7	Beacon "D" Sevastopol	CW	(AB)
MX	25-1-2014	0653	Sat	10871.9	Beacon "S" Sevoromorsk	CW	(AB)
MX	25-1-2014	0653	Sat	10872	Beacon "C" Moscow	CW	(AB)
MX	25-1-2014	0653	Sat	13527.7	Beacon "D" Sevastopol	CW	(AB)
MX	25-1-2014	0653	Sat	13528.4	Beacon "M" Magadan	CW	(AB)
MX	25-1-2014	0653	Sat	16331.7	Beacon "D" Sevastopol	CW	(AB)
MX	25-1-2014	0653	Sat	16332	Beacon "C" Moscow	CW	(AB)
MX	25-1-2014	0653	Sat	20047.7	Beacon "D" Sevastopol	CW	(AB)
MX	27-1-2014	1754	Mon	5153.7	Beacon "D" Sevastopol	CW	(LG2)
MX	27-1-2014	1754	Mon	5153.9	Beacon "S" Severomorsk	CW	(LG2)
MX	29-1-2014	0605	Wed	13528.4	Beacon "M"	CW	(AB-HK)
MX	29-1-2014	1609	Wed	16331.9	Beacon "S" Severomorsk	CW	(LG2)
MX	29-1-2014	1609	Wed	16332	Beacon "C" Moscow	CW	(LG2)
MX	30-1-2014	1305	Thu	7038.8	Beacon "P" Kaliningrad	CW	(AB)
MX	30-1-2014	1305	Thu	7038.9	Beacon "S" Sevoromorsk	CW	(AB)
MX	30-1-2014	1733	Thu	3658	Beacon "V" Khiva	CW	(AB)

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MX	30-1-2014	1733	Thu	4325.9	Marker "R" Izhevsk	CW	(AB)
MX	30-1-2014	1733	Thu	5153.7	Beacon "D" Sevastopol	CW	(AB)
MX	30-1-2014	1733	Thu	5153.9	Beacon "S" Sevoromorsk	CW	(AB)
MX	30-1-2014	1733	Thu	5154	Beacon "C" Moscow	CW	(AB)
MX	30-1-2014	2219	Thu	3334.9	Beacon "V"	CW	(MPJ)
RMv	7-1-2014	0436	Tue	5161	Russian mil. Male voice with test count	USB	(PPA)
RMv	27-1-2014	1605	Mon	7685	Russian mil. Russian voice traffic after CIS-ACS/150/200 channel select on 7685 7687 7689 7691 then into CIS-59 OFDM traffic	USB	(PPA)
RMv	27-1-2014	2157á	Mon	3891	Russian Mil.	USB	(LG2)
RMv	28-1-2014	1617	Tue	7689	Russian Mil. USB/AT3004D/1440/3400 Crypto traffic voice contact	USB	(PPA)
S06	2-1-2014	1900	Thu	3192	349 349 349 00000	CW	(HFD)
S06	6-1-2014	1905	Mon	3838	349 349 349 00000	AM	(GHn)
S06	6-1-2014	1905	Mon	3838	349 349 349 00000	AM	(Go)
S06	11-1-2014	1605	Sat	5786	194 194 194 00000	CW	(HFD)
S06	11-1-2014	1935	Sat	3842	396 396 396 00000	CW	(HFD)
S06	13-1-2014	1900	Mon	3192	349 349 349 00000	USB	(GHn)
S06	13-1-2014	1900	Mon	3192	349 349 349 00000	CW	(HFD)
S06	13-1-2014	2015	Mon	6820	384 384 384 00000	CW	(HFD)
S06	16-1-2014	1545	Thu	11073	352	USB	(BS3)
S06	18-1-2014	1603	Sat	6943	Just copied the end ..4 00000	USB	(IK)
S06	18-1-2014	1935	Sat	3842	396 396 396 00000	CW	(HFD)
S06	23-1-2014	1905	Thu	3838	349 349 349 00000	CW	(HFD)
S06	25-1-2014	1935	Sat	3842	396 396 396 00000	CW	(HFD)
S06	25-1-2014	1935	Sat	3842	396 00000	USB	(toto-NL)
S06	27-1-2014	1900	Mon	3192	349 349 349 00000	CW	(HFD)
S06	27-1-2014	1900	Mon	3192	349 349 349 00000	CW	(HFD)
S06	30-1-2014	1900	Thu	3192	349 349 349 00000	CW	(HFD)
S06c	29-1-2014	1007	Wed	18690	11088	USB	(PH)
S06c	29-1-2014	1020	Wed	18690	11088	USB	(PH)
S06s	4-1-2014	1200	Sat	8680		USB	(Go)
S06s	6-1-2014	0900	Mon	14675		USB	(Go)
S06s	6-1-2014	1310	Mon	10635		USB	(Go)
S06s	7-1-2014	0715	Tue	6320		USB	(Go)
S06s	7-1-2014	0915	Tue	7504	484/00	USB	(Go)
S06s	8-1-2014	0820	Wed	6778	471 930 5 53516 25616 56069 96813 14199 930 5 00000	USB	(Go)
S06s	8-1-2014	1000	Wed	12365	729 830 5 42997 94184 47374 74154 08531 830 5 00000	USB	(Go)
S06s	9-1-2014	0900	Thu	12952	167 928 5 96111 10544 25757 77159 95225 928 5 00000	USB	(Topol)
S06s	9-1-2014	0910	Thu	13565	167 928 5 96111 10544 25757 77159 95225 928 5 00000	USB	(Topol)
S06s	9-1-2014	1200	Thu	12155	425 916 7 01405 15003 24357 60538 54545 50128 99477 916 7 00000	USB	(Topol)
S06s	9-1-2014	1210	Thu	10920	425 916 7 01405 15003 24357 60538 54545 50128 99477 916 7 00000	USB	(Topol)
S06s	13-1-2014	1300	Mon	8420	831 925 6 24675 94092 48521 63872 45847 89758 925 6 00000	USB	(Topol)
S06s	13-1-2014	1310	Mon	10635	831 925 6 24675 94092 48521 63872 45847 89758 925 6 00000	USB	(Topol)
S06s	14-1-2014	0740	Tue	11532	438 938 5 = 09294	CW	(HFD)
S06s	18-1-2014	2030	Sat	4616	621 621 621 00000	USB	(Topol)
S06s	18-1-2014	2130	Sat	4036	621 621 621 00000	USB	(Topol)
S06s	20-1-2014	1900	Mon	3192	349 349 349 00000	USB	(Topol)
S06S	21-1-2014	1500	Tue	6845	537 921 6	USB	(toto-NL)
S06s	24-1-2014	0600	Fri	7125	934	CW	(HFD)
S06s	24-1-2014	0610	Fri	8795	934	CW	(HFD)
S06s	28-1-2014	0834	Tue	14425	153 153 153 00000	USB	(CGB)
S06S	28-1-2014	1500	Tue	6845	537, 921 6	USB	(toto-NL)
S06S	29-1-2014	1000	Wed	12365	729 00000	AM	(toto-NL)
S06s	30-1-2014	1200	Thu	12155	425 425 425 00000	USB	(Topol)
S06s	30-1-2014	1213	Thu	10920	425 425 425 00000	USB	(Topol)
S11a	3-1-2014	0917	Fri	7504	585/00	USB	(KK)
S11a	3-1-2014	1020	Fri	9610	426/00	USB	(Topol)
S11a	4-1-2014	1020	Sat	6433	221/38 Vnimanie 84186 10123 82579 ... 63435 29284 89471 13312 Vnimanie, msg rptd, konec	USB	(AB)
S11a	4-1-2014	1020	Sat	6433		USB	(Go)
S11a	6-1-2014	1015	Mon	12530		USB	(Go)
S11a	9-1-2014	1015	Thu	12530	475/00	USB	(Topol)
S11a	13-1-2014	1015	Mon	12530	475/00	USB	(Topol)

enigma	date	UTC	day	frequency	remarks	mode	contributor
S11A	27-1-2014	1015	Mon	12530	472/31	USB	(toto-NL)
S11A	29-1-2014	1020	Wed	6433	221/00	USB	(toto-NL)
S28	8-1-2014	1126	Wed	4625	MDZhB 75 598 MINONOSNYJ 31 42 46 15 Priyom	USB	(RSRus)
S28	8-1-2014	1217	Wed	4625	MDZhB 32 350 ADOPTACIJA 21 91 97 70 Priyom	USB	(RSRus)
S28	13-1-2014	1421	Mon	4625	MDZhB 24 217 BARVENA 06 80 51 51 Priyom	USB	(AB)
S28	15-1-2014	1204	Wed	4625	MDZhB 85 657 TALOVKA 54 31 67 96 Priyom	USB	(djp)
S28	16-1-2014	0835	Thu	4625	MDZhB 27 732 BALOBAN 92 20 23 53	USB	(DJP)
S28	16-1-2014	1038	Thu	4625	MDZhB 96 893 ChALM?? ?? ?? 88 56	USB	(DJP)
S28	16-1-2014	1043	Thu	4625	MDZhB 68 744 GAL??? 34 87 96 06	USB	(DJP)
S28	16-1-2014	1056	Thu	4625	MDZhB 25 994 KAPKAN 43 10 76 39 VALIUM 91 67 30 95	USB	(DJP)
S28	16-1-2014	1157	Thu	4625	MDZhB 31 648 GALIJa 13 98 34 06	USB	(DJP)
S28	16-1-2014	1503	Thu	4625	MDZhB 88 343 KALIOTEGI 34 64 27 40 GAKLIKT 39 47 37 31 KALIZAN 60 37 15 49	USB	(DJP)
S28	19-1-2014	1350	Sun	4625	MDZhB 50 952 NALIVKA 47 05 43 66 KALIZEJ 50 41 85 22	USB	(AB-EST)
S28	19-1-2014	1351	Sun	4625	MDZhB 60 809 VALERON 36 07 67 03	USB	(AB-EST)
S28	22-1-2014	0952	Wed	4625	MDZhB 46 131 PALATOChNYJ 81 64 76 73	USB	(DJP)
S28	22-1-2014	1336	Wed	4625	MDZhB 45 220 MALDYKA 93 66 09 27	USB	(DJP)
S28	22-1-2014	1346	Wed	4625	MDZhB 81 800 GALBAN 24 85 88 72	USB	(DJP)
S28	22-1-2014	1347	Wed	4625	MDZhB 54 155 TALAUD 32 15 99 40	USB	(DJP)
S28	27-1-2014	1150	Mon	4625	MDZhB 47 600 PLAKSOGEN 51 01 60 32	USB	(DJP)
S28	27-1-2014	1213	Mon	4625	MDZhB 36 410 SAKSAFUL 13 67 72 80	USB	(DJP)
S28	30-1-2014	1025	Thu	4625	MDZhB 83 905 TEKSTOLIT 67 20 67 71	USB	(DJP)
S30	1-1-2014	2211	Wed	3756	Pip marker	USB	(AB)
S30	18-1-2014	1830	Sat	3756	dlya message	USB	(toto-NL)
S30	23-1-2014	1914	Thu	3756	dlya message	USB	(toto-NL)
S30	24-1-2014	1443	Fri	3756	8S1Sh BYeZDYeLUSHKA 4134 Priyom	USB	(Avare)
S30	31-1-2014	0500	Fri	4954	Pip	CW	(07c)
S32	1-1-2014	2210	Wed	3828	Squeeky Wheel marker	USB	(AB)
S3218	26-1-2014	0200	Sun	3218	Katok-65 74422 KINOTEATR 10098332 Priyom	USB	(toto-NL)
V02a	4-1-2014	0700	Sat	13435	Many 5FGs	AM	(SFNY)
V02a	28-1-2014	2008	Tue	7554.9	YL/SS announcing 5F grps in LSB	LSB	(DSch)
V02a	31-1-2014	0505	Fri	5855	Carrier only. V02a at 0505 UTC: Uno uno uno (rptd) dos dos dos (rptd) followed by a M08a transmission in AM(!) at 0515 UTC	AM	(SF/T)
V07	5-1-2014	0100	Sun	16037	661 661 661 000	USB	(Dan)
V07	5-1-2014	0120	Sun	14637	661 661 661 000	USB	(Dan)
V07	12-1-2014	0100	Sun	16037	661 661 661 000	USB	(Dan)
V07	12-1-2014	0120	Sun	14637	661 661 661 000	USB	(Dan)
V07	19-1-2014	0100	Sun	16037	661 661 661 1 343 57 32301 81117 ......92535 000 000	USB	(Dan)
V07	19-1-2014	0120	Sun	14637	661 661 661 1 343 57 32301 81117 ......92535 000 000	USB	(Dan)
V07	19-1-2014	0140	Sun	12137	661 661 661 1 343 57 32301 81117 ......92535 000 000	USB	(Dan)
V13	7-1-2014	0227	Tue	9276	New Star 0200 sked i.p.	USB	(TI)
V13	7-1-2014	0227	Tue	9276	New Star in progress (0200 sked)	AM	(TI)
V13	7-1-2014	0304	Tue	9276	New Star in progress	USB	(TI)
V13	10-1-2014	1300	Fri	8300	New Star	USB	(Steve)
V13	19-1-2014	0700	Sun	9522	New Star #4. Tune followed by coded messages in Chinese	USB	(AB-HK)
V13	19-1-2014	0800	Sun	9522	New Star #4. Tune followed by coded messages in Chinese	USB	(AB-HK)
V13	20-1-2014	1200	Mon	8300	New Star #4. Tune followed by coded messages in Chinese	USB	(AB)
V13	20-1-2014	1300	Mon	8300	New Star #4. Tune followed by coded messages in Chinese	USB	(AB)
V13	29-1-2014	0810	Wed	9522	New Star in progress	USB	(AB-HK)
V13	30-1-2014	1205	Thu	8300	New Star in progress	AM	(AB-HK)
V13	30-1-2014	1302	Thu	8300	New Star in progress	AM	(AB-HK)
V13	31-1-2014	0706	Fri	9522	New Star in progress	AM	(AB-HK)
V21	1-1-2014	0200	Wed	6529	Cuban Babbler	USB	(AAFL)
VC03	23-1-2014	1222	Thu	8703	Chinese YL, CW was heard just before voice tx on 8072.	USB	(S1)
VC05	11-1-2014	2045	Sat	4651	in progress	USB	(07c)
X06	12-1-2014	1647	Sun	8194	Mazielka	USB	(PPA)
X06	14-1-2014	0758	Tue	20814	Mazielka. Sequence 216354	USB	(PH)
X06	30-1-2014	1556	Thu	7730	Mazielka. Sequence: 123456	USB	(FN)
X06	30-1-2014	1608	Thu	7855	Mazielka. Sequence: 123456	USB	(FN)
X06	30-1-2014	1750	Thu	10860	Mazielka	USB	(CS)
X06	30-1-2014	1754	Thu	10860	Mazielka. Sequence: 123456	USB	(PH)
XPA	2-1-2014	1900	Thu	7891	inaudible	CW	(HFD)

enigma	date	UTC	day	frequency	remarks	mode	contributor
XPA	2-1-2014	1920	Thu	6791	873 873 873 000 873 873 873 000 873 873 873 000 07676 00001 00000 10140	MFSK-20	(AB/RWO)
XPA	2-1-2014	1920	Thu	6791	msg	CW	(HFD)
XPA	2-1-2014	1940	Thu	5391	msg	CW	(HFD)
XPA	4-1-2014	0700	Sat	9109	192 192 192 000 192 192 192 000 192 192 192 000 02462 00001 00000 10140	MFSK-20	(PH)
XPA	4-1-2014	0720	Sat	10909	192 192 192 000 192 192 192 000 192 192 192 000 02462 00001 00000 10140	MFSK-20	(PH)
XPA	4-1-2014	0740	Sat	12209		MFSK-20	(Go)
XPA	4-1-2014	0740	Sat	12209	192 192 192 000 192 192 192 000 192 192 192 000 02462 00001 00000 10140	MFSK-20	(PH)
XPA	8-1-2014	0700	Wed	9109	msg	CW	(HFD)
XPA	8-1-2014	0720	Wed	10909	msg	CW	(HFD)
XPA	8-1-2014	0740	Wed	12209	msg	CW	(HFD)
XPA	9-1-2014	1920	Thu	6791	873	USB	(toto-NL)
XPA	21-1-2014	1920	Tue	6791	873	USB	(toto-NL)
XPA2	3-1-2014	0840	Fri	15858	08651 001 00000 10040 end tone	MFSK 1+12/7,5	(PPA)
XPA2	5-1-2014	1322	Sun	14439	05300 00001 00000 10140	MFSK	(PH)
XPA2	7-1-2014	0800	Tue	20258	msg	CW	(HFD)
XPA2	7-1-2014	0802	Tue	20259	81696 25095 79575 ... 53057 68989 26573	MFSK	(PH)
XPA2	7-1-2014	0820	Tue	18058	msg	CW	(HFD)
XPA2	7-1-2014	0820	Tue	18059	81696 25095 79575 ... 53057 68989 26573	MFSK	(PH)
XPA2	7-1-2014	0840	Tue	15858		MFSK	(Go)
XPA2	7-1-2014	0840	Tue	15858	msg	CW	(HFD)
XPA2	10-1-2014	1400	Fri	16167	msg	CW	(HFD)
XPA2	10-1-2014	1420	Fri	14663	msg	CW	(HFD)
XPA2	10-1-2014	1440	Fri	13923	msg	CW	(HFD)
XPA2	11-1-2014	1400	Sat	16167	msg	CW	(HFD)
XPA2	11-1-2014	1420	Sat	14663	msg	CW	(HFD)
XPA2	11-1-2014	1440	Sat	13923	msg	CW	(HFD)
XPA2	12-1-2014	1300	Sun	16138	msg	CW	(HFD)
XPA2	12-1-2014	1320	Sun	14438	msg	CW	(HFD)
XPA2	12-1-2014	1340	Sun	13438	msg	CW	(HFD)
XPA2	14-1-2014	0800	Tue	20259		MFSK	(PH)
XPA2	14-1-2014	0820	Tue	18059		MFSK	(PH)
XPA2	14-1-2014	1300	Tue	16138	msg	CW	(HFD)
XPA2	14-1-2014	1320	Tue	14438	msg	CW	(HFD)
XPA2	14-1-2014	1340	Tue	13438	msg	CW	(HFD)
XPA2	25-1-2014	1400	Sat	16168	05273 00113 52517 ... 93894 42223 55477	MFSK	(PH)
XPA2	25-1-2014	1420	Sat	14664	05273 00113 52517 ... 93894 42223 55477	MFSK	(PH)
XPA2	25-1-2014	1440	Sat	13924	05273 00113 52517 ... 93894 42223 55477	MFSK	(PH)
XSL	8-1-2014	0928		8313	Japanese Maritime Defense Force	QPSK 1500	(KK9EJ)
XSL	30-1-2014	1306	Thu	8313	Japanese navy aka Slot Machine	QPSK 1500	(steve)
XSL	30-1-2014	1308	Thu	8703.5	Japanese navy aka Slot Machine	QPSK 1500	(steve)
XSL	30-1-2014	1309	Thu	8588	Japanese navy aka Slot Machine	QPSK 1500	(steve)
XSL	30-1-2014	1310	Thu	6445	Japanese navy aka Slot Machine	QPSK 1500	(steve)
XSL	30-1-2014	1312	Thu	6250	Japanese navy aka Slot Machine	QPSK 1500	(steve)

Utility DXers Forum
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