

670	27364	92836	09428	61208	74982	36498	32764	81276	01
4986	40932	70987	32123	49817	26346	81287	65491	87364	81
721	75654	55656	12737	72727	72727	91918	63473	67867	70
6723	87629	37677	32612	53498	71296	28756	18276	98716	87
7269	76329	74698	76857	98670	27601	56701	57601	73648	15
591	87364	87265	96710	27630	12673	84769	28743	98127	50
658	63298	75698	27465	87326	49876	28376	81273	98615	62
667	87432	74328	78674	29867	32867	67867	86786	43286	432
667	68768	68763	34234	34238	68768	62342	48273	48768	234
936	98432	32432	86743	43286	43286	43286	43286	43286	432
743	86743	86743	39867	32867	86743	43286	43286	43243	867
741	86743	86743	86743	86743	86743	86743	86743	86743	435
543	98798	98754	98754	98754	98754	29867	67543	67986	867
976	87698	69876	87698	69876	87612	12341	34867	86798	632
967	43298	65656	56756	56123	32143	14321	32143	14321	321
971	02787	58765	76587	58765	76587	58765	76587	58756	765
971	75476	96543	54365	36543	54365	36543	54365	36543	543

Numbers & Oddities

a.k.a. The Spooks Newsletter

Edition #208, January 2015

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>

HF UNDERGROUND <http://www.hfunderground.com/board/>

Hi and welcome to the first edition of N&O in 2015. Besides the usual logs and info I can tell you that Enigma 2000 has assigned designators to several digital transmissions that we report monthly in N&O. Designator M42, originally for Russian diplo CW traffic and later RTTY traffic, was deleted by Enigma a couple of years ago. N&O still used it and now it has been revived.

So here they are:

FSK M42 Undefined Russian digital modes and CROWD-36

FSK M42a GRU HFDF net

FSK M42b Russian FSK 50/500 (=50= separator messages)

FSK M42c Russian FSK 200/500

FSK M42d Russian FSK 200/1000

FSK POL Polish FSK 100/500 inv, FSK 100/625, FSK 100/740, Polish Intelligence (E11 family)



S10: Cold War item

The Swedish Säkerhetspolisen (Security Service) published an interesting item on their website. It is a recording of S10 transmitted by the Czechoslovak Intelligence Agency in the early 1980's. Below a translation of the Swedish text:

The telegram was one of many that the Czechoslovak intelligence service, on behalf of the Soviet Union, sent between 1982 and 1986, to what they thought was a Swedish spy. In fact, it was the Swedish Säkerhetspolisen who sat at the other end. The Säkerhetspolisen got in touch with them thanks to a Swedish soldier who was recruited as a spy by the Czechoslovak intelligence agency during a private trip to Czechoslovakia. It was their objective to have a contact in Sweden who could warn them when the war was about to break out between NATO and the Warsaw Pact.

When the Swedish soldier came home to Sweden he told his boss what happened. Then they contacted the Säkerhetspolisen who asked the soldier if he wanted to help identify the Eastern Bloc intelligence services. He agreed and was trained to be a spy. The Säkerhetspolisen worked with the soldier for several years and thanks to him they got an overall picture of how the Eastern Bloc intelligence agencies worked.

The link to the recording and the story: <http://www.sakerhetspolisen.se/hundraar/telegram>

The transcript of the recording:

082 555 13 28 =

79881 89658 51860 97228 18756 51700 07594 62190 62988 71057

42563 71887 50597 24260 09139 68207 63829 26874 03869 65958

26397 00959 67876 10668 59109 45599 46801 43731

= 13 28 0 0

The recording can also be downloaded from the N&O website.

VOICE STATIONS



E06

4836 kHz, 15-01, 2030 UTC

321 569 20

14259 22676 32782 32782 76723 89409 12215 74326 64070 90235

38085 59543 12319 74238 36664 12256 18841 73311 98089 12250

569 20 00000

5728/4827 kHz, 14-01, 1700/1730 UTC

215 870 65

57040 08130 63167 56816 45032 49269 27780 39599 83230 90108
23309 84364 94903 48922 25774 69423 37687 19333 05504 32535
05920 75746 23082 94363 66675 47250 67572 93362 52916 77151
22965 61768 62221 10349 73788 97393 34511 75724 85815 10914
07223 55742 22805 53327 71351 60439 85217 53274 76821 48005
81837 18916 60601 59120 70249 84043 96018 57261 27092 03117
86691 92149 34039 24914 53542
870 65 00000

16350 kHz, 16-01, 0700 UTC

139 475 103

04898 27703 80395 04516 89875 73405 63261 42053 50995 32641
60725 01340 34894 27653 04300 16367 68765 55420 58929 87132
03931 04270 99818 32502 23968 13247 03026 11942 97064 52672
42013 77015 77316 49336 07345 38623 84619 04752 91711 60884
17877 79911 07484 17633 81187 44994 28962 72434 27713 17440
76525 68487 50904 36848 84867 36523 77784 50127 22493 65065
43968 05338 54675 79965 55101 77660 67063 33165 64421 75935
92108 03217 21115 03201 05528 46304 69164 69675 84955 58299
01370 81621 48004 33781 98235 54521 11902 32984 06405 24007
41896 92573 36333 52984 80620 41222 83893 58386 75603 05898
05587 05989 47106
475 103 00000

5931/4816 kHz, 28-01, 1700/1730 UTC

215 394 62

26007 17433 13765 38907 44466 08618 21840 28618 82575 61297
67683 28954 34265 41976 43072 70057 81573 92464 90129 02953
56653 33651 88968 81501 70278 01807 07929 57334 05298 09587
77348 92475 98461 48930 72813 19318 59074 78037 18810 02653
97885 59630 48730 83440 64688 42647 82160 09001 18040 04608
05393 79326 75542 96788 66096 64184 18140 59429 18088 70715
46848 99145
394 62 00000

**E07****8194 kHz, 04-01, 1800 UTC**

172 1 374 46

51078 74990 02650 44498 87341 32384 24801 61122 39289 86785
58668 46840 83095 05305 59812 91057 38544 70118 81283 28204
11100 30134 59462 86096 01183 61640 60438 44444 93763 00499
18164 10514 25279 92679 69778 95503 97186 79083 38686 16289
94594 80095 92802 68076 89860 84413
000 000

6982kHz, 12-01, 2000 UTC

981 1 9805 36

33904 04986 59480 40166 75073 95354 74639 57843 33270 96182
89935 62238 92845 26202 98199 41147 45988 51440 96328 64194
08226 71178 07577 87561 93126 49171 80580 81705 01528 27935
12620 03016 04140 42740 20625 81710
000 000

5728/4827 kHz, 14-01, 1700/1730 UTC

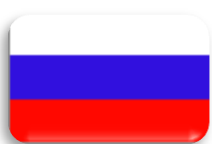
215 870 65

57040 08130 63167 56816 45032 49269 27780 39599 83230 90108
 23309 84364 94903 48922 25774 69423 37687 19333 05504 32535
 05920 75746 23082 94363 66675 47250 67572 93362 52916 77151
 22965 61768 62221 10349 73788 97393 34511 75724 85815 10914
 07223 55742 22805 53327 71351 60439 85217 53274 76821 48005
 81837 18916 60601 59120 70249 84043 96018 57261 27092 03117
 86691 92149 34039 24914 53542
 870 65 00000

8194/6794kHz/5294 kHz, 28-01, 1800/1820/1840 UTC

172 1 949 126

57167 88120 79271 57828 37698 83343 83237 03286 00901 09017
 68781 27210 90321 05050 72869 42755 57713 37510 90997 19120
 40283 08338 59232 90224 03130 79177 23306 73121 44659 65296
 02396 87027 86849 99330 61885 81870 49790 79889 31327 24501
 44893 94681 22909 85298 51019 76352 00043 76403 55940 34973
 85543 87352 29231 88952 42191 33890 74486 99021 20466 88238
 31653 82208 56365 04997 95357 79376 46115 76830 18944 80976
 01122 05398 86660 28891 57716 40282 65781 44474 11253 85697
 95305 03149 32568 72823 07919 04692 13180 47132 04369 70234
 51348 24927 27488 04557 66856 96644 99927 20259 74628 95611
 85168 03048 44768 33093 48352 43109 03124 14623 33203 27778
 54337 38478 74089 63900 57043 40658 78156 90483 23965 98969
 22438 66767 54686 37119 17765 27060
 000 000

**E07a****7632/6832/5832 kHz, 16-01, 1610/1630/1650 UTC**

688 1 17763 6411 79

07047 95986 84023 27522 16529 33561 30491 19933 19296 26823
 09342 79580 21366 14604 70313 12242 07215 69584 97921 59072
 47020 63252 02769 41910 88679 44432 29379 06514 36067 41210
 41163 76213 87925 48938 49735 55880 84010 51333 03581 95730
 60193 72378 77373 49966 48757 20766 47158 23057 40675 17883
 64835 31638 55526 71524 90101 20020 14134 45204 21002 33858
 82637 85739 23603 02771 28748 50522 39368 18118 64816 11394
 38992 42817 02445 73402 75067 13195 42480 69723 71290
 000 000

11123/12123/13423 kHz, 17-01, 0900/0920/0940 UTC

114 1 17763 6411 79

07047 95986 84023 27522 16529 33561 30491 19933 19296 26823
 09342 79580 21366 14604 70313 12242 07215 69584 97921 59072
 47020 63252 02769 41910 88679 44432 29379 06514 36067 41210
 41163 76213 87925 48938 49735 55880 84010 51333 03581 95730
 60193 72378 77373 49966 48757 20766 47158 23057 40675 17883
 64835 31638 55526 71524 90101 20020 14134 45204 21002 33858
 82637 85739 23603 02771 28748 50522 39368 18118 64816 11394
 38992 42817 02445 73402 75067 13195 42480 69723 71290
 000 000

5877/5277/4577 kHz, 21-01, 2100/120/2140 UTC

825 1 17077 981 95

15125 91745 29699 70734 32165 77921 65071 86884 96546 37842
27896 04707 56932 79354 72209 26827 93823 83930 48375 69351
17381 07146 21461 37930 33166 61596 87392 68552 95228 70234
48530 58909 27234 96685 89414 32550 03542 91021 39730 84034
14787 20666 64027 26923 04248 03991 92691 77842 45875 59539
09830 00379 58477 84473 29933 14350 19001 62778 28084 44949
59194 15930 71989 94939 35205 01181 08749 34869 91844 50039
56883 51360 57782 24255 14618 28640 64907 29148 87375 02602
62394 05678 48046 35723 22302 07624 75223 81323 43590 22356
53886 30745 97369 78250 99423
000 000

5111/5811/6911 kHz, 22-01, 0530.0550/0610 UTC

189 1 17077 981 95

15125 91745 29699 70734 32165 77921 65071 86884 96546 37842
27896 04707 56932 79354 72209 26827 93823 83930 48375 69351
17381 07146 21461 37930 33166 61596 87392 68552 95228 70234
48530 58909 27234 96685 89414 32550 03542 91021 39730 84034
14787 20666 64027 26923 04248 03991 92691 77842 45875 59539
09830 00379 58477 84473 29933 14350 19001 62778 28084 44949
59194 15930 71989 94939 35205 01181 08749 34869 91844 50039
56883 51360 57782 24255 14618 28640 64907 29148 87375 02602
62394 05678 48046 35723 22302 07624 75223 81323 43590 22356
53886 30745 97369 78250 99423
000 000



E11a

10690 kHz, 10-01, 1400 UTC

981/10 Attention 28440 79017 53578 09702 15933 45723 04841 44288 73373 48460 Attention, rpt msg, out

10690 kHz, 13-01, 1400 UTC

984/10 Attention 29569 05305 63638 44410 53234 98223 20576 79562 81140 74472 Attention, rpt msg, out

10213 kHz, 17-01, 1810 UTC

988/10 Attention 28350 35060 14715 45306 82590 72410 65798 77465 12754 05938 Attention, rpt msg, out

10213 kHz, 20-01, 1810 UTC

983/10 Attention 43382 09293 28738 25765 24520 81520 06158 85103 81348 84176 Attention, rpt msg, out

10690 kHz, 24-01, 1400 UTC

981/10 Attention 95071 86579 59921 80871 71770 95888 62029 36030 58494 88922 Attention, rpt msg, out

13455 kHz, 27-01, 0530 UTC

980/10 Attention 89279 70007 72469 41435 34614 82094 45012 41578 60515 96808 Attention, rpt msg, out

15632 kHz, 05-01, 1540 UTC

227/34 Attention

26540 35862 03384 11825 72060 85449 79256 69655 40396 15241
17391 84838 08353 77099 99783 19265 64737 16481 48478 14201
75069 94774 25748 46363 42438 48647 07482 90533 81952 35544
40696 31922 21952 60732
Attention, rpt msg, out

8091 kHz, 07-01, 1045 UTC

463/36 Attention

91118 93880 52191 17664 42405 85572 21189 73931 52364 02960
07903 67076 52974 60250 81576 74733 65395 39785 79990 89799
32896 07060 80097 15579 83470 65043 51863 49515 58055 16231
00319 61748 79456 66180 45800 95723

Attention, rpt msg, out

15632 kHz, 07-01, 1155 UTC

712/32 Attention

89140 94686 75282 45802 92713 14672 18762 29731 98545 85171
51530 50720 67522 10595 19527 05912 52366 40350 93616 54101
59251 23348 04629 80583 98902 89558 90649 02612 41078 14788
45828 85640

Attention, rpt msg, out

16112 kHz, 08-01, 0745 UTC

331/36 Attention

18727 57965 13877 11709 72555 32451 89637 09487 12022 05477
52263 46876 07145 86211 02006 71409 96669 52549 95782 94557
85459 47020 82655 89268 30841 39267 09584 98589 72409 45169
02744 92278 84314 67923 53903 35718

Attention, rpt msg, out

14410 kHz, 09-01, 1110 UTC

958/40 Attention

83567 37421 43197 52432 99904 12447 85521 11770 84879 80986
86131 08101 52446 55579 23225 02647 59118 68419 29761 87696
37407 82452 51939 73755 56468 31764 64824 14582 30018 62806
61932 68603 97869 82537 90235 90513 01419 00743 99577 83085

Attention, rpt msg, out

10125 kHz, 12-01, 0820 UTC

430/30 Attention

40128 91024 71737 98051 21487 04366 69798 77280 90418 30601
12179 59693 58436 94526 47078 00348 12912 54027 09901 13761
64007 41012 74714 28634 00923 53282 81156 78897 18033 43547

Attention, rpt msg, out

18030 kHz, 13-01, 1300 UTC

133/37 Attention

91083 71140 35510 20760 35189 55268 31398 90450 49256 92219
43850 02617 47469 69806 19777 92458 70827 25820 50637 64507
86453 46224 90130 13372 86472 60217 27911 57611 84380 13399
12607 54284 72148 40728 41339 68608 66000

Attention, rpt msg, out

10125 kHz, 15-01, 0820 UTC

430/30 Attention

40128 91024 71737 98051 21487 04366 69798 77280 90418 30601
12179 59693 58436 94526 47078 00348 12912 54027 09901 13761
64007 41012 74714 28634 00923 53282 81156 78897 18033 43547

Attention, rpt msg, out

6923 kHz, 16-01, 1710 UTC

957/21 Attention

50729 08982 55407 97073 32380 46106 02037 55996 11942 22672
87860 01603 15414 05845 21127 46523 36109 06623 84110 83588
11153

Attention, rpt msg, out

9950 kHz, 15-01, 0930 UTC

278/34 Attention

24561 39801 23784 16418 35038 36176 69651 53349 71252 51740
85096 29034 72213 21900 06607 10717 95393 07081 06391 81173
03044 44560 07790 59709 56320 99586 05871 47888 61503 56486
19392 55146 18302 95003

Attention, rpt msg, out

14410 kHz, 16-01, 1110 UTC

950/31 Attention

92842 22267 86774 86345 97721 54883 69410 23740 50110 10263
12153 66328 63596 92068 05959 35840 05937 11730 90511 40999
28962 97793 58339 80753 67465 29600 04717 80962 62273 61988
57190

Attention, rpt msg, out

9446 kHz, 19-01, 0830 UTC

649/38 Attention

48865 43431 37065 87649 48118 82037 00709 61833 19816 44286
65335 29570 49719 83156 56492 11666 81767 31526 48888 77828
82972 21518 98410 30867 21217 99459 47565 51031 70084 57941
70750 77795 54711 39323 21846 52860 05579 67618

Attention, rpt msg, out

12153 kHz, 20-01, 1045 UTC / 6304 kHz, 23-01, 2000 UTC

576/32 Attention

93289 75176 13744 64959 99635 01012 28616 01540 89731 09339
55579 07944 27977 08920 69078 81203 95180 32428 78827 91155
15261 75070 39612 10502 80253 08730 13363 25957 32353 44208
38130 91081

Attention, rpt msg, out

4441 kHz, 24-01, 1445 UTC

286/31 Attention

36154 70883 50413 77980 28934 72310 09532 78941 30306 55910
12237 41291 43175 77314 35665 44563 88806 96373 95537 56205
95861 85289 01093 97943 39398 47882 60067 10189 93175 45289
30962

Attention, rpt msg, out

9446 kHz, 25-01, 0900 UTC

537/38 Attention

17282 35574 48754 65489 63151 86650 87921 87786 72382 09388
20601 32058 05334 76825 00314 56971 62090 97224 54662 70298
41526 36632 75907 68145 76200 43909 40809 64170 49025 64990
04463 13053 94988 21219 87483 20313 18002 58739

Attention, rpt msg, out

7840 kHz, 27-01, 0645 UTC

510/35 Attention

85983 62463 13406 96689 92885 42558 17759 18984 02051 35946
57369 77851 98920 28819 13035 50420 19823 98057 98790 76654
10881 23920 39653 65961 52418 76627 00924 36840 29498 42833
98449 21437 37032 66321 31429

Attention, rpt msg, out



E17z

11170/9820 kHz, 08-01, 0800/0810 UTC

674 932 5 12532 06674 38829 10996 79419 932 5 00000

11170/9820 kHz, 15-01/22-01, 0800/0810 UTC

674 915 8 83208 37829 47458 42857 39674 32387 44142 33104 915 8 00000



G06

4519 kHz, 08-01/22-01, 1830 UTC

271 394 20

06132 75514 79681 94217 21443 31441 81797 17512 62689 33103

48930 93432 25709 93628 48683 18809 85052 49870 63962 04884

394 20 00000

4792 kHz, 09-01/23-01, 1930 UTC

436 721 20

37839 35787 98573 62187 56222 95625 31695 52538 61225 22567

93296 67423 42968 56891 63782 34822 24842 62491 75924 24594

721 20 00000



S06

16243 kHz, 15-01, 0830 UTC

842 571 30

11802 61610 73066 12613 91167 74484 95354 04084 46573 38471

76877 38372 41265 83482 42905 54693 78337 47563 74209 15511

31318 66153 64580 79077 90131 86472 64401 27453 75948 14327

571 30 00000

15721 kHz, 26-01, 0400 UTC

480 396 50

09709 08053 24983 98499 49512 42139 20292 46995 89540 19002

33026 76890 90730 86552 93927 72821 05927 32338 32310 14247

71851 12102 62603 26905 60139 73748 47945 19527 54658 12665

20514 04242 47276 19316 63279 24107 69276 05075 82879 36211

00603 17200 28288 23775 24131 78924 34972 35694 17135 15567

396 50 00000



S11a

6433 kHz, 07-01, 1020 UTC

227/30 Vnimanie

79142 01571 77938 33074 39203 90405 34803 58779 81105 59633
93557 98131 92369 17133 24025 27094 94782 20504 13067 56582
01713 69230 72663 90541 23860 28475 20964 73194 83127 44859

Vnimanie, rpt msg, konec

9610 kHz, 13-01/16-01, 1020 UTC

422/34 Vnimanie

32469 78117 87782 24933 34609 21075 52458 02808 58378 23248
95565 85075 06897 93743 98648 22476 89602 85781 64023 16512
84355 62675 63922 23966 04672 29700 06189 07749 90694 41259
24881 92750 13634 84330

Vnimanie, rpt msg, konec

7504 kHz, 20-01/23-01, 0915 UTC

481/35 Vnimanie

33038 61302 44869 49348 69248 73424 73436 01219 45148 87891
44157 66798 51121 79098 66163 97741 16388 78702 04701 65760
62171 47974 98442 55860 93807 32986 83872 62443 82419 11432
77461 04897 10635 09636 35255

Vnimanie, rpt msg, konec

12530 kHz, 25-01, 1015 UTC

478/38 Vnimanie

53425 18080 27345 20597 69730 76522 50897 46859 10965 43863
61127 40661 43334 78597 86887 35578 00845 99748 73787 34173
65744 08495 17323 70260 26322 30244 26506 36315 93275 87163
22810 69577 53836 50743 16620 47072 36119 08631

Vnimanie, rpt msg, konec



S28 - The Buzzer

Mode: USB

Frequency: 4625 kHz

04-01, 1249 UTC	MDZhB 08 282 SBODRYGA 5566 4692
08-01, 1416 UTC	MDZhB 08 580 LAZUTChIK 0954 5345
08-01, 1430 UTC	MDZhB 52 144 TAVYeRON 3710 0831
15-01, 0947 UTC	MDZhB 31 184 MIMYeTIZM 9994 5325
15-01, 1351 UTC	MDZhB 13 749 CIRKONAT 7460 3591
15-01, 1410 UTC	MDZhB 36 064 KINODIALOG 8028 7828
19-01, 0657 UTC	MDZhB 46 429 EGRIDIF 4299 9777
19-01, 0659 UTC	MDZhB 59 381 MAL'TIDIT 2586 5586
19-01, 1219 UTC	MDZhB 56 174 BANDIKUT 2587 8836
19-01, 1438 UTC	MDZhB 93 167 GASTROL' 6717 6854
22-01, 1619 UTC	MDZhB 07 503 ZANAT 6205 9376
22-01, 1641 UTC	MDZhB 70 114 BIRALA 8969 0415
25-01, 1420 UTC	MDZhB 25 919 MYeGALOZAVR 0065 4100
25-01, 1447 UTC	MDZhB 85 109 YeVTINIYa 6591 6683
26-01, 0559 UTC	MDZhB CYeNTIM 61 51 Play00:00...
26-01, 0953 UTC	MDZhB 60 253 AVIAS'YeMKA 4695 6540

26-01, 1010 UTC	MDZhB 01 858 NYeSUSShchIJ 2800 4765
26-01, 1030 UTC	MDZhB 45 841 VOZhDYeNIYe 6600 6672
28-01, 0259 UTC	MDZhB FYeNOKSILYeN 64 63
28-01, 0559 UTC	MDZhB GYeOLOGiYa 55 37
29-01, 1254 UTC	MDZhB 15 418 BYeLOPOLYeC 8315 9191
29-01, 1501 UTC	MDZhB GERUNOK 26 47



V07

16037/14637 kHz, 25-01, 0100/0120 UTC

661 1 529 71
 85475 29200 55095 92190 33543 73901 79788 17050 89213 20778
 54859 84373 00325 97051 18481 23984 ?4737 03337 77399 38021
 01385 44459 29745 37389 87402 99113 23974 33191 10098 88733
 78183 80770 01174 32212 04272 28194 34893 73720 81705 52523
 91053 59441 38303 99873 09947 39775 57544 23380 19231 30033
 58158 37512 83530 13838 72932 32331 33723 70322 37583 48013
 35037 52881 00392 39207 44208 13194 72237 00792 07182 03189
 02593
 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

Unconfirmed new schedules. Please let us know if you hear the station.

15388 kHz	0200-0230 UTC	New Star 1	11430 kHz	0700-0730 UTC	New Star 4
15388 kHz	0300-0330 UTC	New Star 1	11430 kHz	0800-0830 UTC	New Star 4
15388 kHz	0400-0430 UTC	New Star 2	7502 kHz	1200-1230 UTC	New Star 4
11430 kHz	0500-0530 UTC	New Star 3	7502 kHz	1300-1330 UTC	New Star 4
11430 kHz	0600-0630 UTC	New Star 3			



VC01 - Chinese Robot **Chinese Air Defense**

Modes: USB and LSB

The station changes its frequencies frequently. Known frequencies:

3036, 3749, 3837, 4075, 4140, 4165, 4175, 4180, 4258, 4343, 4410, 4422, 4427, 4480, 4530, 4580, 4726.5, 5114, 5195, 5232, 5288, 5303, 5328, 5330, 5343, 5393, 5471, 5592, 5700, 5742, 5799, 5802, 5820, 5832, 5892, 6209, 6479, 6771, 6840, 6858, 6860, 6949, 6960, 7090, 7351, 7608, 7684, 7726, 7739, 7744, 7756, 7770, 7792, 7864, 7865, 7880, 7890, 7924, 7938, 8000, 8025, 8046, 8170, 8779, 9000, 9129, 9169, 9192, 9290, 9340, 10508, 17392 kHz.

4140 kHz, 24-01, 1250 kHz USB



V21 Cuban Babbler

5637 kHz, 3-1, 1408 UTC Cuban Babbler

5637 kHz, 14-1, 1400 UTC Cuban Babbler



V24

5715 kHz, 15-1, 1330 UTC Jammed by N. Korea. AM (Avare)

6310 kHz, 15-1, 1430 UTC Jammed by N. Korea. WindowsXP shutdown sound follow at 1442 UTC

MORSE STATIONS



MX Russian Military beacons

Current cluster frequencies:

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

Other frequencies:

L 6917.5, 8497.8 kHz

V 3658, 4150, 6809, 6928, 7027.5 kHz

R 5466 kHz

W, R, N, G, C, K, Z, L, V, Ü 5835, 8112, 8162 kHz (Tu-Bear net)

Cluster beacon slots:

.7 "D", Sevastopol

.8 "P", Kaliningrad

.9 "S", Severomorsk

.0 "C", Moscow

.1 "A", Astrakhan

.2 "F", Vladivostok

.3 "K", Petropavlovsk Kamchatskiy

.4 "M", Magadan



M01 / M01c

M01c, 9067 kHz, 06-01, 1301 UTC

111 638 00

333 97 333 63397 63397

333 63397 63397 333 63397 63397 =

333 628 07 628 07

M01, 5320 kHz, 08-01, 1800 UTC

197 115 30 = =

74746 19753 1646t 57545 548t3 943t7 39117 688tt 29612 67475

27129 5t664 2783t 73138 14716 74857 582t6 t59t6 t4295 5t662

12776 34t52 t264t 58886 56242 57177 99261 51775 95727 361t4

= = 115 30 000



M03

13911 kHz, 02-01, 1320 UTC / 04-01, 1420 UTC

877/38 =

33542 26316 42233 02794 53684 06878 50035 60532 29117 97948
 49808 98743 76683 16318 46868 69975 93199 93523 50543 38720
 77404 19892 82208 87529 69562 66350 54224 15006 89020 39381
 19251 28032 49022 56682 12359 35209 12829 85649
 = 877/38 = rpt msg, = 000

5358 kHz, 20-01, 1535 UTTC

796/38 =

03297 65509 17730 00367 10409 81515 50132 95350 53582 67073
 80248 19648 68363 18334 15673 42946 37461 29492 99914 96072
 60547 22383 08502 67627 44654 16.16 36577 10341 19433 24707
 69807 60522 07352 86562 90571 36013 82829 44026
 = 796/38 = rpt msg = 000



M08a

Dirección General de Inteligencia

See HM01 for the updated schedules.



M12

5788 kHz, 12-01, 1840 UTC

463 463 463 1 4793 148 4793 148
 06953 58758 21283 47580 85555 98000 92955 55563 26137 37479
 61528 23667 01763 20646 69276 84895 92903 75541 55766 56373
 48370 43428 06345 66555 60098 98288 41427 00399 75915 17565
 43295 70400 66854 96451 78175 64241 57271 78669 21371 80982
 81388 27893 19678 66641 59523 05929 19994 87773 34466 79395
 18180 65090 27455 52660 94976 57169 93231 31225 16788 67845
 83525 87891 15483 80303 01438 18249 87751 86378 22670 55513
 33831 43929 48743 25234 03817 36564 18620 96506 98317 69671
 72028 15740 55327 43019 99662 44308 61910 90248 93337 37179
 00573 91691 27688 49210 77626 99744 29049 17273 12966 42691
 84898 40948 75896 53090 32091 17260 63744 53183 57867 82449
 23951 18841 21647 17921 25230 65713 88069 10423 17368 24059
 53962 10205 44141 16065 71570 83337 98086 50431 82323 99700
 15703 64918 24586 02891 71614 90585 00618 35098 33587 72393
 64028 55894 06676 43680 71045 80321 19622 80455
 000 000

5361 kHz, 28-01, 2200 UTC

340 1 3860 99
 22983 57745 93698 17173 48189 31086 87072 18432 23979 27110
 97350 44076 94374 92244 34494 12759 50729 87627 27397 85636
 65925 84161 96023 90442 38636 19324 52626 84879 00664 89990
 54007 13602 49240 22236 63543 55555 21234 28885 59273 19142
 64072 80092 08446 98275 21947 26024 41002 55279 50819 99495
 20413 05214 90312 04109 57365 69993 80080 17174 44898 82829
 20026 67785 80043 04651 04927 54442 54399 06890 70265 32833
 57974 13132 28564 88877 35306 87986 69957 52773 20238 69887
 74225 19257 96989 27221 45387 26724 04865 93319 93143 36617
 62483 72618 49122 80899 66724 37300 23931 63703 49412
 000 000

Asian M12 schedules compiled by Token:

Id 854: 15826/14576/13416 kHz, 0020/0040/0100 UTC, on Wednesday and Saturday
 Id 253: 19276/18576/16356 kHz, 0020/0040/0100 UTC, on Wednesday and Saturday
 Id 548: 18576/17436/15826 kHz, 0020/0040/0100 UTC, on Wednesday and Saturday
 Id 435: 15826/14576/13416 kHz, 0100/0120/0140 UTC, on Thursday

**M14****4636 kHz, 13-01, 1820 UTC**

186 275 020
 51059 23438 76167 25680 94045 26295 92184 54625 57552 67851
 95578 17869 75794 68461 80694 32456 21369 84274 96823 17105
 275 020 00000

5560 kHz, 17-01, 0900 UTC

i.p. 10871 68236 75764 90152 17615 80721 38962 04169 25634 95438
 823 020 **000009 (!!!)**

10755 kHz, 22-01, 1503 UTC

975 328 60 =
 7 3169 378 73 82861 62748 99816 12893 39841 21779 89372 51358
 78838 16447 92653 75187 23689 12091 42186 51193 04326 12749
 05012 23837 64320 17598 58632 63708 47030 70460 32289 42670
 15057 75812 80757 71588 82677 79733 82854 61615 65970 39240
 81836 94926 80285 28429 09882 15882 39781 54877 63839 78526
 38687 84735 24438 11385 19004 99948 36137 85463 54304 36040
 = 328 60 00000

18041 kHz, 26-01, 0500 UTC

952 471 60 =
 35380 66149 21253 44194 26703 56706 11232 17481 97106 63623
 95606 64742 42678 49439 72576 79587 19533 10040 73121 49611
 04091 94778 55308 96664 38206 50899 20179 25048 13860 65720
 16403 13542 77 080 05005 25897 12230 55795 70961 47581 30037
 41294 28319 21467 23939 77994 71888 60271 25758 41192 34088
 80733 67498 07492 55823 51824 91157 47598 69206 02039 53946
 = 471 60 0000



M41
Russian Air Defence Forces
Во́йска ПВО Voyska PVO

4985 kHz, 15-01, 1601 UTC

7221 9497 49996 0185128820751754

ABV 7221949994089960185128820 751754 BZZJ K

14576 kHz, 22-01, 0747 UTC, i.p.

9900 903 26 24 49

9961 903 81 75 50

9902 368 63 81 50

WZD

9903 368 63 22 72 80 800 52

ABV

9903 368 63 22 72 80 800 52

9904 368 63 34 52

WZD

9009 903 26 41 72 60 800 53

ABV

9900 903 26 41 72 60 800 53

9901 903 21 15 54

9902 368 68 45 54



M51 / FAV22
8ème Régiment de
Transmission

The following notes were submitted by Daniel (Danix):

On Sunday, January 18th at 12:30 UTC I've noticed start-up of M51 on 9213//10115.5 kHz. It went on continuously until the next day, 08:30 UTC (20-hour transmission - enough for two rounds of 100 messages). Date given was two days ahead (J 20/21 reported in headers), and the clock was approximately +1.5 minutes off.

Then at 12:27 UTC on January 19th I logged M51 on 3881//6825 kHz (that's right - FAV22 frequencies), sending BT NR 48 J 21 13:28:50 2015 BT, but a few groups later it stopped and FAV22 began - "VVV VVV VVV DE FAV22 FAV22 FAV22". Number #48 suggests that it has been going since about 08:30 UTC, around the time M51 QRT'd on the other frequencies. No M51 heard anywhere else while FAV22 was on.

At 16:51 UTC I again heard M51 on 3881//6825 kHz, this time sending BT NR 85 J 21 17:53:05 2015 BT - counter still suggests it began around 08:30 UTC, as if it just kept going off the air while FAV22 was transmitting.



M89

Chinese military

Roundslips and callsigns

V A7TR A7TR A7TR DE DI9Q DI9Q
V 5RAB 5RAB 5RAB DE M9AB M9AB
V 7NPE 7NPE 7NPE DE QV5B QV5B
V 6TRW 6TRW 6TRW DE J9NS J9NS
V 7NPE 7NPE 7NPE DE QV5R QV5R (faulty transmission)
V 8CPZ 8CPZ 8CPZ DE XW6W XW6W
V 8DKB 8DKB 8DKB DE ODY8 ODY8
V 8PEX 8PEX 8PEX DE TI5F TI5F
V BNGC BNGC BNGC DE XSV85 XSV85
V BIQ9 BIQ9 BIQ9 DE ISL2 ISL2
V BRH0 BRH0 BRH0 DE 8NGG 8NGG
V B9SR B9SR B9SR DE AL6R AL6R
V CQ CQ CQ DE DP91 DP91
V DKG6 DKG6 DKG6 DE 3A7D 3A7D
V DP9J DP9J DP9J DE CQ CQ
V EI0B EI0B EI0B DE JHG2 JHG2
V GKLO GKLO GKLO DE TYUI TYUI
V GKN7 GKN7 HKN7 DE F3J5 F3J5
V H2FL H2FL H2FL DE DRV8 DRV8
V JKDJ JKDJ JKDJ DE SLBC SLBC
V M8JF M8JF M8JF DE RIS9 RIS9
V MW3D MW3D MW3D DE 2SLC 2SLC
V N4FM5 N4FM5 N4FM5 DE NAT491 NAT491
V PGG9 PGG9 PGG9 DE MI6Y MI6Y
V RA5J RA5J RA5J DE BP2S BP2S
V RXP7 RXP7 RXP7 DE CZT2 CZT2
V S2LZ S2LZ S2LZ DE YBA6YBA6
V SR3H SR3H SR3H DE FGH8 FGH8
V SXL6 SXL6 SXL6 DE 9QFZ 9QFZ
V TKLO TKLO THLO DE TYUI TYUI
V TY9D TY9D TY9D DE EOX2 EPX2

V VTX7 VTX7 VTX7 DE TZ7B TZ7B
V VXL1 VXL1 VXL1 DE XIW2 XIW2
V WZG6 WZG6 WZG6 DE 4VTG 4VTG
V YUQW YUQW YUQW DE ASDF ASDF
V ZRM7 ZRM7 ZRM7 DE LCM0 LCM0
V N4FM5 N4FM5 N4FM5 DE DUT491 DUT491
V Q5U8 Q5U8 Q5U8 DE 8QPP 8QPP
V QHV8 QHV8 QHV8 DE 8QPP 8QPP
VVV Q2M Q2M Q2M DE NYZ NYZ
V DKSL DKSL DKSL DE ALSK ALSK
V 3A3J 3A3J 3A3J DE B4ZJ B4ZJ
V HER6 HER6 HER6 DE WU6L WU6L

XLIC XLIC XLIC DE BJ3H BJ3H
DUIW DUIW DUIW DE BJ3H BJ3H
BJ3H BJ3H BJ3H DE DUIW DUIW
MPV3 MPV3 MPV3 DE BJ3H BJ3H
INT3 INT3 INT3 DE BJ3H BJ3H
SLPX SLPX SLPX DE BJ3H BJ3H
FBEP FBEP FBEP DE BJ3H BJ3H
CXDE CXDE CXDE DE BJ3H BJ3H
XPZD XPZD XPZD DE BJ3H BJ3H
BJ3H BJ3H BJ3H DE MPV3 MPV3
SIDB SIDB SIDB DE BJ3H BJ3H

9IXG DE SWG5
WRX5 DE SWG5

Soldiers of an honor guard of the People's Liberation Army at their base in Nanjing.

Picture on the right via Wikipedia, courtesy of Mr Demetrio J. Espinosa, U.S. Marine Corps - <http://www.marines.mil>



Picture above is courtesy of Mr Max Smith



Messages:

4212 kHz, 12-01, 1406 UTC

XLIC DE BJ3H BJ3H QSA ? K
VV XLIC QSA 2 K
OK K
R K
DUIW DUIW DUIW DE BJ3H BJ3H DEEEEE QSA ? K
BJ3H BJ3H DE DUIW QSA 2 QSA ? K
DUIW QSA 3 K
OK K
R K
MPV3 MPV3 MPV3 DE BJ3H BJ3H QSA ? K
MPV3 MPV3 MPV3 DE BJ3H BJ3H QSA ? K
MPV3 MPV3 MPV3 DE BJ3H BJ3H QSA ? K
DE ... INT3 INT3 INT3 DE BJ3H BJ3H QSA ? K
BJ3H BJ3 QSA 2 QSA ? K K
INT3 QSA 2 K
OK K
R K
5LPX 5LPX 5LPX DE BJ3H BJ3H QSA ? K
BJ3H DE 5LPX QSA 3 QSA ? K
5LPX QSA 1 K
K
QSA ? K
5LPX QSA 1 K
OK K
R K
FBEP FBEP FBEP DE BJ3H BJ3H QSA ? K
FBEP FBEP FBEP FBEP DE BJ3H BJ3H QSA ? K
8NNN 8NNN 8NNN DE BJ3H BJ3H QSA ? K
BJ3H DE 8NNN QSA . QSA ? K
8NNN QSA 2 K
OK K
R K
CXDE CXDE CXDE DE QEEEE BJ3H BJ3H QSA ? K
CXDE CXDE CXDE DE BJ3H BJ3H QSA ? K
XPZD XPZD XPZD DE BJ3H BJ3H QSA ? K
XPZD QSA 1 K
R K
SIDB SIDB SIDB DE BJ3H BJ3H QSA ? K
MPV3 MPV3 MPV3 DE BJ3H BJ3H QSA ? K
BJ3H DE FBEJ K
RPT K
FBEJ K
FBEP QSA 2 K
QSA 3 K
OK K
CXDE CXDE CXDE DE BJ3H BJ3H QSA ? K
CXDE CXDE DE BJ3H QSA ? QXS K
QXS K
BJ3H DE MPV3 QSA 2 QSA ? K
RPT K
BJ3H DE MPV3 QSA 2 QSA
RPT K
DE MPV3 QSA 2 QSA ? K
MPV3 QSA 3 K
OK K
R K

10208 kHz, 13-01, 0140 UTC

R 7G NR 050 CK 99 58 0113 ..39 RMKS 4496 TO 4440 K
R GA K (Other station also on this frequency)
R YEEEE R BT
454T 3437 3763 N53U (Cont'd)
AR K
R U 7 EEEE R U 7G GA K
R HR 7G 8..
R GA K

3597 kHz, 13-01, 1529 UTC

AR
YRG7 K K (Outstations on another frequency)
AS
2N5W K K
AS
6AMN 6AMN K K
6AMN 6AMN K K
LLA1 LLA1 K K
4WJA 4WJA K K
AS
LLA1 K K
RPT K K
AS AS
6AMN 6AMN K K
AS
YRG7 GA K

6421 kHz, 13-01, 0201 UTC

/LZ../5460/.385 AR AGN
NR 07. 1000 RMKS 5463 TO 73../7823/COMM/1045/LZ38.A3/436./7385 AR
QSL? HR WK NR 32

4532 kHz, 13-01, 1415 UTC

8/A/30..AR
UGT COMM BT 4./5543/5../0.1.....6Z/.6.0/6.. AGN
UGT COMM BT ..9/5543/.3.3/...../224./36./A.30/6..

5555 kHz, 13-01, 1423 UTC

VV
7G TR 23/C/ / CX CCK CK 55 15 0112 1500
7G NR 23 BT/CCK CK 55 23 01
7G NR 23/CCK TIEEEEE
MSG NR 23/CCCK 55
MSG NR 23/CCK CK 45
MSG NR 24 BTEEEEEEEEEEEEEEEEEEE
MST ITITII 1234A67890 EEEEE
MSG NR 23/CCK CK 55
MSG NR 23/CCK
MSG NI EEEEE
MSEEEEEEEEE T I EEEEE
MSG NR 23/CCK
7G NR 23/CCK
7G MSG NR 7G NR 23/CCK CK 55 15 016EEEE 01 EEEE 0112
7G NR 23//?//M CCK CK
7C 7G NR 23/C/CCK CK 55 11501A 1.121500 00
7G NR 23//CCK CK 55 1 M1501121500
7G NR 23/T//
GJ8R GJ8R GJ8R DE 48KG 48KG CL K EEEEE
DE DE DE EEEEE BDRH K
BDRH K
R HR QSA 2 K
R IEC BT 2415 AR K
OK HR NR NOT K
R AS
HR CQ MSG NAEEEEE HR CQ MSG GA
HR QSA 3 F EEEEE HR QSA 2 K
T RMKS 7 ..7128 TO 22451/\E\E\E\E
QSL LZ. QSA QSL ?
HR 7G EEEEE
QSA2
7G 7G GA U QSY TO NR .. NR 23/CCK CK 5EEEEEE

9131 kHz, 13-01, 0105 UTC

67AA ATNN 3UD. TTTA ATTT UTТА ND3. (Cont'd)
AR QSL ? HR WK NR 31

5564 kHz, 15-01, 1655 UTC

III = UTA6 NDDA N7U7 5NT5 543A N64D (Cont'd)
III = T765 N4D3 3U5D D75A 47ND N465 U4NA (Cont'd)

5564 kHz, 15-01, 2338 UTC

3436 D5DT 4336 5347 DT73 3AST ? 3A4U TT5N (Cont'd)
IEC HR 7AGN EIR NR NOT K
HR NR 0AGN HR NR NOT K
ERE NR 12 K
QSL 14//// CK 1260 AU312 AME AGN
1234567D9 89 9/CKP
= ADT6 65.. TU65 TU6T (Cont'd)
AR

5177 kHz, 16-01, 0305 UTC

5341 6201 5320 5374 =
74NN A3UT 4453 6NAD 743A TNU3 54D3 (Cont'd)
AR
GA
QSL ? HW WK NR 0047 K
HR WK EEEEE HR WK NR 0047 V

5270 kHz, 16-01, 007 UTC

R RPT 66W K
NRPT 66W U189 3189 K
R QSL 0807 K
R YR MSG GA K
8TT EEEE TEEE T EEEE NUWGA K EEEEEEE
NUMSG GA K
R (0009z)
HR MSG GA NR .08/CCK CK 91 .3 0116 0800 RMKS 5308 TO 16..
= 7AD5 DN5U D734 A57D NUD5 UTD3 N7.. (Cont'd)
R QSL ? K
QSL 0814 K
R NIL SK K
NOK SK

5341 kHz, 16-01, 0004 UTC

\E\E NR 751 // RMKS CQ = .S1/QR0 AR
\E\E NR 751.. 803 RMKS CQ = GS1/QR0 AR
\E\E NR 71EEEE
\E\E NR 751 /EX 0803 RMKS CQ = GS1/QR0 AR
\E\E NR 751 7/EX 0803 RMKS CQ = GS1/QR0 AR QSY J7 QSY .7 QSY 17 V

5545 kHz, 16-01, 1026 UTC

7529 K
R = 7529 AR K
R HR 7G GA K
R HR 7G GA K
R GA
R U GA K
R QSY 6016 K
R QSY 6016 K
R QSY 6016 K
OK (Heard a few Vs being sent on 6016 - Silent on both frequencies)

7777 kHz, 14-01, 0048 UTC

NR 05/EX 0848 RMKS 3729 TO 3722 =
N6L1/ARA3C = NAEEEEEEE
= = NBL1/ARA3 AR K
NR QSL 0850 K
R U \E GA K
R R \E\ NR 01/EX 851 RMKS 3722 TO 3729 =
AB4C/BDC5 AR
\E\E NR 01/EX 081 RMKS 3722 TO 3729 =
AB4C/BDC5 AR K (0051z)
R R QSL EEEE R QSL 0852 K
R R MSG GA K
R R MSG NR 02 CK 49 54 .114 EEEEEEE
R MSG NR 02 CK 49 54 0114 0853 RMKS 3729 TO 3722 K
R R R GA K = =
5D4A 53TU DTAU AU66 TTTU T543 T74T TUUU 6635 5AT6 (Cont'd)
AR K
R R R QSL 0855 K
N U MSG GA K
R R R MSG NR 001/CCK CK 55 32 0114 0856 RMKS 3722 TO 3729 K
GA K
R R = =
3657 4D3A A5D7 DT77 T4A6 UTT3 6335 6A4T 75DD 776U (Cont'd)
AR K
N N QSL 0900 K
R R \E GA K
NR \E GA K
VVV
R \E GA K
NR GA K
R AS
NR AGN K
VV D\ET EEEEE
\E\E NR 02/TX T902 RMKS 3729 TO 3722 =
HTL6/ASEEEEEEE
E\E\E NR 02/EX 0902 RMKS 3729 TO 3722 =
HTLB/PLY5 = =
HTLB/PLY5 AR K
R QSL 0903 K
R U \E GA K
NR \E NR 02/EX 0904 RMKS 3722 TO 3729 =
CK4T/BABC
\E NR 02/EX 0KEEEEEEE
\E NR 02/EX 0904 RMKS 3722 TO 3729 =
CK4T/BABC AR K
R QSL 0906 K
NR U 7G GA K
R 7G NR 07CCK CK 49 32 0114 0910 RMKS 3729 TO 3722 AR K
NR AGN K
R AGN K
NR PT AGBL K
R 7G NR 07CCK CK 49 32 0114 0910 RMKS 3729 TO 3722 AR K
NR GA K
R 7G = =
7U7A A5U5 7TUD 74DT TTTT 5767 UA7T A73A ? A73A 434T 76T5 4TT7
(Cont'd)
77UU 3A35 36T6 6UT5 T55T 5T63 55U4 DA33 A4DD TUA4 T775 TT6A 56..
UT4U A5T3 4AA3 AR K
R AGN K
NR A EEEEE R RPT 3W K
R RPT 3W = 7TUD 7TUD AR K
NR R QSL 0916 K
R U 7G GA K
NR 7G NR 00./CCK CK 49 32 0114 0917 RMKS 3722 TO 3729 K
R GA K
R R NR = =
6335 6A4T 75DD 776U 44T7 UDTD U337 6T34 U67T TT6T T5TT 4AT6 (Cont'd)
AR K
R QSL 0919 K
NR R K
N R (Silent - 0119z)

6246 kHz, 16-01, 0217 UTC

24 0116 0950 RMKS 2949451 TO 2949453 1AA =
5743 N4U5 TN6U 7354 45NU 6T75 AN67 A673 A56T (Cont'd)
K

5588 kHz, 16-01, 1034 UTC

III = 4654 734A 674A U665 D5U4 (Cont'd)
III 4TU7
MSG NR 073 CK 301 44 0116 1830 =
3U.. T575 47UT 3N.. 33DU (Cont'd)

7712 kHz, 16-01, 0243 UTC

190CW190DWC. T R K
R J90CE DE QSA ?
QSA 4 QSA 5
QRU ?
ZG CY
GA
NR 01 CK 100 33 0116 11090
= = A6CD/1234
QSL 1101
= = 4UN5 D73T A63D N6T7 A4U5 NA4D U7T5 (Cont'd)
= = NR 010 1161 100 = = ABCD/1234 (0250z)
QSL 1101
= NR 01 CK 100 33 0116 1100 = =
4UN5 D73T A63D N6T7 A4U5 NA4D U7T5 365A 63N4 UT7D (Cont'd)
6NU5 III =
C QRU ?
TC T
QRU ?
TC7M GA

6839 kHz, 19-01, 1048 UTC

TAD4 T476 4TAA AND3 6ATN UUD3 53UN (Cont'd)
III 3P GA =
33.7 335. 636A UU74 DN45 574T D5N3 (Cont'd)
III AR
R DHR

9131 kHz, 221-01, 1330 UTC

DD7U D43D D44D 5UDT T7ND DD35 (Cont'd)
III = A35U T6D6 D75. (Cont'd)
AR
R RPT
AGN
R GA

3333 kHz, 22-01, 1233 UTC

7D5A U37D D7U3 DUN3 53TN (Cont'd)
III = (Cont'd)
AR K (Other station also on this frequency but mostly unreadable
LAO PO LOU YA WOU K K
LLP ILTV E YOU K

10947 kHz, 23-01, 0517 UTC

COMM 1400/L33463/5463/5980 AGN
NR 90 1315 RMKS 5463 TO 5980/5494 =
COMM/1400/LZ35463/5463/5980 AR QSL ?
HR WK NR 33

6688 kHz, 26-01, 1013 UTC

7TU7 DU73 4UT3 5NU3 76A3 737D (Cont'd)
III BT 5U6D 63TN 5T43 7A4D D475 D75N (Cont'd)

3795 kHz, 23-01, 1347 UTC

DA3T 5ATU 4TNU 45N. 57AT T? 4NNU T6A4 7NTT (Cont'd) AR
VI EEEEE
VV NEE7L DE SWG5 K
AEE EEE
55W TO 56W = 6D6N A6TT 6D6N A6TT AR K
68W = 333A 333A K
6EE 73W = 3TUU 3TUU K
7.W T AS AS 73W TAIEEEEEEE
73W 3TUU 3TUU K
R ... QSY NEEEE 21 K
EA.IX65I U
VV 9IXG DE SWG5 K
R KP K
VV WRX. DE SWG5 K K
VV WRX5 DE SWG5 K
RPT
R GA
G
RPT RMKS
GA
RPT U9W50W K
RPT 49W TO ... K
RPT RPT 48W K
QSL 201 K
R QSL 2201 K
LSB WK K

3330 kHz, 25-01, 2225 UTC

V MW3D (x3) DE 2SLC (x2)
75T7 4N3N NA3A (Cont'd)
III 4TA7
...535 III III R
M M
7G NR 110 CK 301 44 0126 ..61 RMKS CQ =
UN56 S.3DU N34T AUT6 37D4 NA6T (Cont'd)
AR AR (2249z - Return to roundslip)

3300 kHz, 26-01, 1437 UTC

UNUT T45D 3N46 7U5N DADT (Cont'd)
III U35T .AT5 AT56 7D7. T643 (Cont'd)
III 4TU7
MSG NR 113 CK 301 44 0126 .230 =
U575 47UT 3N6T 43DU 63TT (Cont'd)

4982 kHz, 26-01, 2240 UTC

5335 UA63 DT37 6U43 (Cont'd)
III BT N336 3A43 TT76 DT33 DD34 (Cont'd)
AR
K K
R K SK GB

5256 kHz, 26-01, 1013 UTC

7G GA
HR BSZ GA NR 024/EX CK 91. 7 0126 .83EEE
NR 024/EX CK 91 67 0126 1800 RMKS CQ
8DETBR 8 K
VV .GW8 EEEEEEEEE
VV LGW8 DE YNL8 K
HR B BT
D6U5 NU53 U53U NTAU 53UA U33N (Cont'd)
EEE HR 7G RPT GA =
D6U5 NU53 U53U NTAU 53UA U33N AAN? UANU (Cont'd)

6794 kHz, 27-12, 1323 UTC

DATN 53T4 AT5U (Cont'd)
AR K
QSL 2125 2125 K K
R U MSG GA K
R MSG NR 1514 CK 100 .4 0127 2100 RMKS 4312457 TO 4312451 K
NR GA K
R R = =
U7D4 D573 5NUT 74UD 53N6 T.5D UAT6 3D7A (Cont'd)
AR CY K K
QSL 2130 K. QSL 2130 K
R U GA K
NR HR MSG GA
MSG NR 4357 CK 100 3. 0127 2100 RMKS 4312451 TO 4312457 = =
ND75 7T3D AN4D 4..A AT65 7A3T AN76 DTAU (Cont'd)
AR K
R QSL 2137 QSL 2137 K K
NR U MSG GA K
R MSG NR 1520 CK 100 14 0127 2100 RMKS 4312457 TO 4312451 K
NR GA K
R = =
A.7U ATD5 76A5 NUA7 T5AD UA76 753? 75D3 74DU (Cont'd)
AR CY K K
NR NR QSL 2141 QSL 211EE QSL 2141 K
R U GA K
U GA K
NR RR HR
MSG GA MSG NR8 CK 80 14 0127 100. RMKS 431245 TO 4312.. K =
N45T DU.3 (Fading badly now - other station loud)
AR
R QSL 2147 QSL 2147 K K
CY K
NR CY K SK SK SK

3525 kHz, 28-01, 1607 UTC

5D74 6T57 6T45 6UA7 TN36 7UTD 65UA 4N6D (Cont'd)
AR QSL ? K
QSL ? K
R RPT 72W
R RPT 72W ANT7 ANT7 K
R QSL 0010 K
R U MSG EEEEE NR EEEEE R U MSG GA K
R HR MSG GA NR 300 CK .. 5 0129 0000 =
AR QSL ? K
R RPT 29W K
R RPT 40W K
R RPT 83W K
R QSL 0015 HR WK NR 00.2 K
HR WK NR ... 11 K
R HR NIL SK
R NIL SK

5555 kHz, 28-01, 0905 UTC

7G NR 42 CK 43 EEEEE 42 79 0128 1706 K
R = =
T363 TDU4 U434 57DD UATA AD5U 4U6U 75A6 634U (Cont'd)
AR K
N AGN K
N HR K
N GA K
R TGN K
R = = AGN K
N QSL 0EEEE QSL 171EEEE QSL 1713 K
R U\E\E\E NR 10.. 1714 = =
AHK4/ANS5 EEEEE = =
TEEEEEEE AHEEEE A5EEEE
ASK4/ANS5 K = =
R K
= U E
= 7D37I.NET E. GS IEEEE E E T I NSEE
MSG NR MSG NR 2978 CK 33. 85492 5861 =
TAD4 TTTD D44T D66D U454 6A3N 6A6A U7NU (Cont'd)

6456//8527 kHz, 28-01, 0200 UTC

CQ (x3) DE DP91 (x2) V
N CHR FR Q. AHR NIL SK GB
HE R TC HR .R.. WK AHR NIL SK GB
TC HR HR QWK AHR NIL SK
PSE KK HR TC HR .. AHR NIL SK GB
PSE CK HE E PSE KETE R TC HR V QWK AH NIL SK GB
PSE YK HR TC SR HR EK W. AH. NIL SK GB
PSE YK HR TC HR VR QWK AHR NIL SK GB
PSE YK HR TC HR VRE QWK AHR NIL SK GB
DP.... QSA 2 NIL SK
GB

3642 kHz, 28-01, 1453 UTC

RMKS 5319 to 5111153EEE
RMKS 5319 TO 5111 5369 5164 5176 5592 5182 =
AUTN 5T63 5765 5TAN 5D7U AT5U 6.DU UAD7 UN64 DA4N 3AAD 3A4A
(Cont'd)
AR



MC03 Chinese Air Defense

We received an interesting note from Token who copied a new variant of the well-known Chinese Air Defense time markers. He writes *"At about 1510 UTC I noticed a "time tick" with carrier on 4010 kHz. There was no LSB, so it looked like USB+Carrier or AM with suppressed LSB. The time ticks were one second apart and under 15 milliseconds long. At about 25 seconds after the minute (1510 UTC) CW was sent, "AU34567DNT U3AA". At roughly 30 seconds after 1511 UTC "AU34567DNT U3AU" was sent."*

Video here <https://www.youtube.com/watch?v=rwvMld2FgvY>

The time pips are new. So far the pips were not reported.



UM01 **Unid CQ station**



3580 kHz, Unid station, located in Siberia

12-01, 1358 UTC: CQ M 15
12-01, 1944 UTC: CQ M 14
12-01, 2201 UTC: CQ M 15
13-01, 0129 UTC: CQ M 16
13-01, 0956 UTC: CQ M 16
13-01, 2036 UTC: CQ M 15
14-01, 0126 UTC: CQ M 12
14-01, 1659 UTC: CQ M 5
15-01, 0111 UTC: CQ M 5
15-01, 1648 UTC: CQ M 4
15-01, 2204 UTC: CQ M 4
16-01, 0234 UTC: CQ M 4
16-01, 1047 UTC: CQ M 3
16-01, 1550 UTC: CQ M 3
16-01, 1708 UTC: CQ M 3
18-01, 1818 UTC: CQ M 6
18-01, 2322 UTC: CQ M 7
19-01, 0422 UTC: CQ M 7

19-01, 1045 UTC: CQ M 7
19-01, 1140 UTC: CQ M 7
19-01, 1516 UTC: CQ M 7
19-01, 1813 UTC: CQ M 7
19-01, 2214 UTC: CQ M 6
20-01, 0140 UTC: CQ M 6
20-01, 1336 UTC: CQ M 6
20-01, 1653 UTC: CQ M 6
20-01, 2009 UTC: CQ M 6
20-01, 2253 UTC: CQ M 5
21-02, 1319 UTC: CQ M 6
21-02, 2158 UTC: CQ M 11
21-02, 2314 UTC: CQ M 11
22-01, 1349 UTC: CQ M 13
22-01, 1438 UTC: CQ M 13
22-01, 2325 UTC: CQ M 13
23-01, 0517 UTC: CQ M 15
23-01, 1334 UTC: CQ M 20

23-01, 1817 UTC: CQ M 23
26-01, 0944 UTC: CQ M 30
26-01, 1500 UTC: CQ M 29
26-01, 1659 UTC: CQ M 29
26-01, 2219 UTC: CQ M 28
27-01, 0152 UTC: CQ M 27
27-01, 0552 UTC: CQ M 25
27-01, 1313 UTC: CQ M 20
27-01, 1500 UTC: CQ M 20
27-01, 2255 UTC: CQ M 18
29-01, 1026 UTC: CQ M 12
29-01, 1445 UTC: CQ M 12
29-01, 1828 UTC: CQ M 14
30-01, 0323 UTC: CQ M 17
30-01, 1429 UTC: CQ M 16
30-01, 1813 UTC: CQ M 17



UM10 **Unid 10-minutes net**

3724 kHz, 12-01, 1455 UTC: 7CJK
3724 kHz, 12-01, 1952 UTC: 7CJK //3207 kHz
3207 kHz, 12-01, 1952 UTC: 7CJK //3724 kHz
3860 kHz, 12-01, 1952 UTC: L6YC //3207 kHz
3207 kHz, 12-01, 1952 UTC: L6YC //3860 kHz
3860 kHz, 13-01, 1520 UTC: L6YC
3724 kHz, 13-01, 1526 UTC: 7CJK
3860 kHz, 14-01, 1716 UTC: L6YC //3207 kHz
3207 kHz, 14-01, 1716 UTC: L6YC //3860 kHz
3860 kHz, 17-01, 1450 UTC: L6YC
3207 kHz, 17-01, 1454 UTC: 7CJK
3860 kHz, 18-01, 2323 UTC: L6YC
3860 kHz, 19-01, 1816 UTC: L6YC
3207 kHz, 20-01, 1325 UTC: L6YC
3207 kHz, 20-01, 1327 UTC: 7CJK

3860 kHz, 20-01, 2015 UTC: L6YC
3860 kHz, 20-01, 2251 UTC: L6YC
3860 kHz, 21-01, 2316 UTC: L6YC
3724 kHz, 22-01, 1353 UTC: 7CJK
3860 kHz, 22-01, 1354 UTC: L6YC
3860 kHz, 22-01, 1615 UTC: L6YC
3207 kHz, 22-01, 1558 UTC: 7CJK
3207 kHz, 23-01, 1324 UTC: 7CJK
6823 kHz, 27-01, 0123 UTC: AW3Z
3724 kHz, 27-01, 2257 UTC: 7CJK
3207 kHz, 28-01, 1446 UTC: L6YC
3207 kHz, 28-01, 1446 UTC: L6YC
3724 kHz, 28-01, 1458 UTC: 7CJK
3860 kHz, 28-01, 2047 UTC: L6YC

VARIOUS MODES



HM01

Dirección General de Inteligencia

Oddities:

11435 kHz, 16-01, 1603 UTC Radio Habana briefly at 1603 UTC. HM01 at 1605 UTC

11435 kHz, 17-01, 1600 UTC 61664 85206 32058 24151 03572 24673. Stops and sends 61665 85207 32059 24151 03573 24674

11435 kHz, 19-01, 1606 UTC Radio Habana briefly, then 61667 85209 56431 24153 03575 24676

Updated **M08a** and **HM01** schedules

UTC	Sun	Mon	Tue	Wed	Thu	Fri	Sat	UTC
0000								0000
0100								0100
0200								0200
0300								0300
0400								0400
0500	5855 1)	5855 1)	14375 2)	5855 1)	14375 2)	5855 1)	14375 2)	0500
0600	10345	10345	9330	10345	9330	10345	9330	0600
0700	9330	9330	11435	9330	11435	9330	11435	0700
0800	9065	9065	11435	9065	11435	9065	11435	0800
0900	9240	9240	11462	9240	11462	9240	11462	0900
1000	5855 9155	5855 9155	12180 11635	5855 9155	12180 11635	5855 9155	12180 11635	1000
1100								1100
1200								1200
1300								1300
1400	8096	8096	8096	8096	8096	8096	8096	1400
1500								1500
1600	11435	11435	11435	11435	11435	11435	11435	1600
1700	11530	11530	11530	11530	11530	11530	11530	1700
1800	11635	11635	11635	11635	11635	11635	11635	1800
1900								1900
2000	7554	7554	7554	7554	7554	7554	7554	2000
2100	11635	11635	16180	11635	16180	11635	16180	2100
2200	10715	10715	17480	10715	17480	10715	17480	2200
2300	8135	8009	8135	8009	8135	8135	8135	2300
UTC	Sun	Mon	Tue	Wed	Thu	Fri	Sat	UTC

1) Also heard on 12120 kHz, sometimes on both frequencies

2) Also heard on 11462 kHz, sometimes on both frequencies

Notes:

V02a is seldom heard and has no scheduled transmissions.

HM01 schedules start at hh:59 and are repeated at hh:29

M42 & X06



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

Russian Government & Intelligence



M42a - GRU HFDF net

7697 kHz, 07-01, 1536 UTC, CW

3K
VVV VVV VVV
NW K
NW 95 678 Ä
0 1 312 Ä
0 1 312 eee e
01 392 Ä eeeeeee
36 309 Ä
3923
3K

M42b – FSK 50/500 transmissions

10757 kHz, 18-01, 0043 UTC, FSK 50/500

5LGs header with "=50" separators "0048 150 18 0017 7462"

M42c - FSK 200/500 transmissions

7682/5385/4570 kHz, 03-01, 1810/1820/1830 UTC, FSK 200/500

RYRYRY 00000+++++++162)5761

16142 kHz, 10-01, 1310 UTC, FSK 200/500

00000+++++++162)5761

7682/5385/4570 kHz, 10-01, 1810/1820/1830 UTC, FSK 200/500

RYRYRY 00000+++++++162)5761

5791/4536/3825 kHz, 15-01, 2000/2010/2020 UTC, FSK 200/500

RYRYRY 00000+++++++162)5761

7682/5385/4570 kHz, 17-01, 1810/1820/1830 UTC, FSK 200/500

RYRYRY 00000+++++++162)5761

4538/3827 kHz, 29-01, 2010/2010 UTC, FSK 200/500

RYRYRY 00000+++++++162)5761

18524/16140/14672 kHz, 31-01, 1300/1310/1320 UTC, FSK 200/500

RYRYRY 00000+++++++162)5761

7684/5387 kHz, 31-01, 1810/1820 UTC, FSK 200/500

RYRYRY 00000+++++++162)5761

9160 kHz, 13-01, 0925 UTC, FSK 200/500 (copied by Ian Wraith)

00000+++++++203=8691
96728460554278432 =8562
67745783478147042 =8763
782344574816566117=8044
35758764992540437 =8685
274910857706451148=8946
78968869152651760 =8097
142037781530699136=8428
387767023271760113=8029
700968753890022172=82310
36047454597024752 =81111
14184157016676220 =80612
359635898921938110=80613
143738298773248147=84814
603069852049947110=83815
624719525100895180=82416
17521662598080640 =77417
468016299899847125=84418
12069813313486136 =82719
957507717247969121=81120
395650644314438104=80421
930755772352689148=87022
450630000000000156=72023
000000000000000109=80724
00000696652879725 =84625
39472545719692568 =76726
591212791914442110=78727
519334983646886107=83828
71306216840220098 =87629
09087958297002687 =84130
630706187065077118=88631
588259946003751125=84932
638754851570064128=86933
857881048820240107=84534
046925252880051110=84835
867562756002169123=86636
2419284303853578 =83237
706711028162605142=83738
660396946828754101=86139
15214192813147697 =87740
41928173721452576 =83041
45102727716357543 =81142
97570809205704082 =80043
22039316334071498 =82144
072424823733806123=85045
83569618422471833 =84246
4288308703181763 =85847
19376794589972295 =85948
724747936184249152=87449
599931546902835157=83450
455809381056990129=82351
557245196613058125=82052
78016257073072774 =87453
74044335953057334 =83854
585817419655082125=82455
23175551406331483 =82756
25138601499526290 =85757
490532391226593100=81858
011790133946103105)57659

10292/8066 kHz, 01-01, 0700/0710 UTC, FSK 200/1000

Block No 0 : Total Message Size 54 blocks : This transmission contains 2 messages.

Block No 1 : Link ID 45136 : 31st of month : Msg Number 155 : Msg Type 07145 : Group Count (?) 171

07593 25817 49560 21584 58024 03778 36622 59144

10292 kHz, 02-01, 0700 UTC, FSK 200/1000

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.

Block No 1 : Link ID 45136 : 1st of month : Msg Number 007 : Msg Type 07145 : Group Count (?) 4

15684 00000 00000 03893 58024 32979 00893 47921

20562/18569/16306 kHz, 02-01, 1500/1510/1520 UTC, FSK 200/1000

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.

Block No 1 : Link ID 32821 : 3rd of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4

53900 00000 00000 01219 33847 36280 00893 61953

20014/18353/16245 kHz, 03-01, 1100/1110/1120 UTC, FSK 200/1000

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.

Block No 1 : Link ID 36882 : 3rd of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4

04648 00000 00000 01723 37098 35332 00893 43056

18471/16308 kHz, 03-01, 1510/1520 UTC, FSK 200/1000

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.

Block No 1 : Link ID 32821 : 3rd of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4

53900 00000 00000 01219 33847 36280 00893 61953

12148/10236/8129 kHz, 04-01, 1530/1540/1550 UTC, FSK 200/1000

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.

Block No 1 : Link ID 20501 : 4th of month : Msg Number 122 : Msg Type 07144 : Group Count (?) 4

19140 00000 00000 02902 16418 33541 00893 46940

10292/8066 kHz, 05-01, 0700/0710 UTC, FSK 200/1000

Block No 0 : Total Message Size 39 blocks : This transmission contains one message.

Block No 1 : Link ID 45137 : 31st of month : Msg Number 160 : Msg Type 07145 : Group Count (?) 1

38513 12980 57816 01757 01146 07551 33135 58676

10156 kHz, 05-01, 1200 kHz, FSK 200/1000

Block No 0 : Total Message Size 39 blocks : This transmission contains one message.

Block No 1 : Link ID 45137 : 31st of month : Msg Number 160 : Msg Type 07145 : Group Count (?) 1

38513 12980 57816 01757 01146 07551 33135 58676

17428/15836/13394 kHz, 06-01, 1400/1410/1420 UTC, FSK 200/1000

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.

Block No 1 : Link ID 32799 : 6th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4

07836 00000 00000 03670 14796 34946 00893 30698

4027 kHz, 06-01, 2220 UTC, FSK 200/1000

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.

Block No 1 : Link ID 45057 : 6th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4

07836 00000 00000 01140 44730 34946 00893 05555

14492 kHz, 07-01, 1020 UTC, FSK 200/1000

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.

Block No 1 : Link ID 49202 : 7th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4

49708 00000 00000 03937 65293 32895 02047 32415

8021 kHz, 07-01, 1210 UTC, FSK 200/1000

Block No 0 : Total Message Size 39 blocks : This transmission contains one message.

Block No 1 : Link ID 45137 : 31st of month : Msg Number 167 : Msg Type 07145 : Group Count (?) 255
24637 04899 01345 07732 01146 34879 34871 56163

16327/14824/12164 kHz, 07-01, 1230/1240/1240 UTC, FSK 200/1000

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.

Block No 1 : Link ID 53277 : 7th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
49788 00000 00000 01732 22771 33913 00893 11812

10156/8021 kHz, 08-01, 1200 UTC, FSK 200/1000

Block No 0 : Total Message Size 60 blocks : This transmission contains 2 messages.

Block No 1 : Link ID 45136 : 31st of month : Msg Number 170 : Msg Type 07145 : Group Count (?) 145
34957 62385 54867 02523 58024 00187 52339 05260

10292/8066 kHz, 09-01, 0700/0710 UTC, FSK 200/1000

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.

Block No 1 : Link ID 45136 : Corrupt Date : Msg Number 145 : Msg Type 07145 : Group Count (?) 4
07680 00000 00000 01963 58024 00725 00893 31576

20971/18734/16326 kHz, 10-01, 1000/1010/1020 UTC, FSK 200/1000

Block No 0 : Total Message Size 9 blocks : This transmission contains one message.

Block No 1 : Link ID 45057 : 29th of month : Msg Number 167 : Msg Type 07145 : Group Count (?) 45
26181 02993 17551 12187 46156 33972 29331 38060

20012/18351/15243 kHz, 10-01, 1100/1110/1120 UTC, FSK 200/1000

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.

Block No 1 : Link ID 36882 : 10th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
17772 00000 00000 02222 32669 35974 00893 65301

10292/8066 kHz, 12-01, 0700/0710 UTC, FSK 200/1000**10156/8021 kHz, 12-01, 1200/1210 UTC, FSK 200/1000**

Block No 0 : Total Message Size 38 blocks : This transmission contains one message.

Block No 1 : Link ID 45136 : 12th of month : Msg Number 175 : Msg Type 07145 : Group Count (?) 253
18660 14438 29662 25763 55182 03107 45029 57149

10292 kHz, 13-01, 0700 UTC, FSK 200/1000

Block No 0 : Total Message Size 61 blocks : This transmission contains 2 messages.

Block No 1 : Link ID 45136 : 12th of month : Msg Number 177 : Msg Type 07145 : Group Count (?) 133
07680 06336 47430 09571 58024 36031 17146 36686

10156/8021/6794 kHz, 13-01, 1200/1210/1220 UTC, FSK 200/1000

Block No 0 : Total Message Size 61 blocks : This transmission contains 2 messages.

Block No 1 : Link ID 45136 : 12th of month : Msg Number 177 : Msg Type 07145 : Group Count (?) 133
07680 06336 47430 09571 58024 36031 17146 36686

17427/15836/13394 kHz, 13-01, 1400/1410/1420 UTC, FSK 200/1000

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.

Block No 1 : Link ID 32799 : 13th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
43236 00000 00000 03320 24788 35061 00893 59538

19311/16346/14492 kHz, 14-01/, 1000/1010/1020 UTC, FSK 200/1000

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.

Block No 1 : Link ID 49202 : 14th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
17772 00000 00000 03833 28271 35800 00893 42043

10156/8021 kHz, 14-01, 1200/1210 UTC, FSK 200/1000

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

Block No 1 : Link ID 45136 : 13th of month : Msg Number 182 : Msg Type 07145 : Group Count (?) 239
18740 20806 40499 27847 55182 33412 18625 48040

8066/6767 kHz, 15-01, 0710/0720 UTC, FSK 200/1000

1056/8021/6794 kHz, 15-01, 1200/1210/1220 UTC, FSK 200/1000

Block No 0 : Total Message Size 55 blocks : This transmission contains 2 messages.

Block No 1 : Link ID 45136 : 14th of month : Msg Number 185 : Msg Type 07145 : Group Count (?) 163
17896 06289 23687 39508 55182 00203 21672 04290

20012/18351/16243 kHz, 17-01, 1100/1110/1120 UTC, FSK 200/1000

Block No 0 : Total Message Size 27 blocks : This transmission contains one message.

Block No 1 : Link ID 36882 : 16th of month : Msg Number 242 : Msg Type 07145 : Group Count (?) 172
34356 10889 06128 15587 34728 33354 05697 57174

10292/8066/6767 kHz, 19-01, 0700/0710/0720 UTC, FSK 200/1000

Block No 0 : Total Message Size 34 blocks : This transmission contains one message.

Block No 1 : Link ID 45136 : 16th of month : Msg Number 190 : Msg Type 07145 : Group Count (?) 219
33740 62791 59280 31564 55182 01735 07493 27930

10292/8066/6767 kHz, 20-01, 0700/0710/0720 UTC, FSK 200/1000

Block No 0 : Total Message Size 60 blocks : This transmission contains 2 messages.

Block No 1 : Link ID 45137 : 19th of month : Msg Number 192 : Msg Type 07145 : Group Count (?) 185
55596 52193 45735 14323 01151 33011 09916 33149

10156/8021/6794 kHz, 20-01, 1200/1210/1220 UTC, FSK 200/500.

Only a few lines were decoded due to the faulty shift (should be 1000)

Block No 0 : Total Message Size 14 blocks : This transmission contains one message.

Block No 1 : Link ID 32799 : 6th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
07836 00000 00000 03670 14796 34946 00893 30698

17427/15836/13394 kHz, 20-01, 1400/1410/1420 UTC, FSK 200/1000

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.

Block No 1 : Link ID 32799 : 20th of month : Msg Number 090 : Msg Type 07145 : Group Count (?) 4
55564 00000 00000 02418 09187 00381 00893 56663

6794/5318/4029 kHz, 20-01, 2200/2210/2220 UTC, FSK200/1000

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.

Block No 1 : Link ID 45057 : 20th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
35524 00000 00000 03703 44730 33762 00893 03561

5148 kHz, 20-01, 2320 UTC, FSK200/1000

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.

Block No 1 : Link ID 40988 : 20th of month : Msg Number 110 : Msg Type 07145 : Group Count (?) 4
55072 00000 00000 01041 00624 02611 00893 35839

19311/16346/14492 kHz, 21-01, 1000/1010/1020 kHz, FSK 200/1000

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.

Block No 1 : Link ID 49202 : 21st of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
10468 00000 00000 01676 44300 33909 00893 26414

10156/8021/6794 kHz, 21-01, 1200/1210/1220 UTC, FSK 200/1000

Block No 0 : Total Message Size 41 blocks : This transmission contains one message.

Block No 1 : Link ID 45136 : 20th of month : Msg Number 197 : Msg Type 07145 : Group Count (?) 13
20200 26872 60010 33803 58024 39192 30093 35718

16327/14824/12164 kHz, 21-01, 1230/1240/1250 UTC, FSK 200/1000

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.

Block No 1 : Link ID 53277 : 21st of month : Msg Number 160 : Msg Type 07145 : Group Count (?) 4
56988 00000 00000 01521 15966 00933 00893 21590

16320 kHz, 21-01, 0150 UTC / 14880 kHz, 21-01, 0230 UTC, FSK 200/1000

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

Block No 1 : Link ID 41018 : 21st of month : Msg Number 020 : Msg Type 07145 : Group Count (?) 245
32768 55011 06962 24604 21686 03912 14116 32504

10156/8021/6794 kHz, 22-01, 1200/1210/1220 UTC, FSK 200/1000

Block No 0 : Total Message Size 67 blocks : This transmission contains 2 messages.

Block No 1 : Link ID 45136 : 21st of month : Msg Number 200 : Msg Type 07145 : Group Count (?) 181
10132 05574 60392 39894 58024 00411 50963 64760

8066 kHz, 23-01, 0710 UTC, FSK 200/1000

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.

Block No 1 : Link ID 45137 : 23rd of month : Msg Number 170 : Msg Type 03049 : Group Count (?) 4
17988 00000 00000 00733 07583 02476 00893 44265

16243 kHz, 24-01, 1120 UTC, FSK 200/1000

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

Block No 1 : Link ID 36882 : 22nd of month : Msg Number 245 : Msg Type 07145 : Group Count (?) 242
23176 11849 60571 15093 48247 00851 02881 05043

10156/8021 kHz, 25-01, 1200/1210 UTC, FSK 200/1000

Block No 0 : Total Message Size 39 blocks : This transmission contains one message.

Block No 1 : Link ID 45137 : 23rd of month : Msg Number 205 : Msg Type 07145 : Group Count (?) 5
08948 30360 43921 16679 07583 05647 09111 31283

10292/8066 kHz, 27-01, 0700/0710 UTC, FSK 200/1000

Block No 0 : Total Message Size 50 blocks : This transmission contains 2 messages.

Block No 1 : Link ID 45136 : 26th of month : Msg Number 207 : Msg Type 07145 : Group Count (?) 157
25073 50101 24536 24387 01103 32973 00890 00932

10156/8021/6794 kHz, 27-01, 1200/1210/1220 UTC, FSK 200/1000

Block No 0 : Total Message Size 50 blocks : This transmission contains 2 messages.

Block No 1 : Link ID 45137 : 26th of month : Msg Number 207 : Msg Type 07145 : Group Count (?) 157
25073 50101 24538 24391 07583 33419 42740 18008

17427/15836/13394 kHz, 27-01, 1400/1410/1420 UTC

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.

Block No 1 : Link ID 32799 : 27th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
46741 00000 00000 03302 26836 34384 00893 30605

9143/7861/5384 kHz, 27-01, 1650/1700/1710 UTC, FSK 200/1000

Nr 002/27th Type 07145 Gr4 to Link 20501. 21037 00000 00000 03519 26517 33331 00893 33391. Null message.

8124/7641/5146 kHz, 27-01, 2300/2310/2320 UTC, FSK 200/1000

Block No 0 : Total Message Size 24 blocks : This transmission contains one message.

Block No 1 : Link ID 40988 : 27th of month : Msg Number 111 : Msg Type 07145 : Group Count (?) 153
63009 41609 61633 05823 10231 02289 32764 16316

19311/16346/14492 kHz, 28-01, 1000/1010/1020 UTC, FSK 200/1000

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.

Block No 1 : Link ID 49202 : 28th of month : Msg Number 110 : Msg Type 07145 : Group Count (?) 4
38989 00000 00000 01453 47834 02272 00893 45891

10156/8021/6724 kHz, 28-01, 1200/1210/1220 UTC, FSK 200/1000

Block No 0 : Total Message Size 44 blocks : This transmission contains one message.

Block No 1 : Link ID 45136 : 27th of month : Msg Number 212 : Msg Type 07145 : Group Count (?) 39
14897 17504 11517 16228 65099 38204 05748 52009

10292/8066/6767 kHz, 29-01, 0700/0710/0720 UTC, FSK 200/1000

Block No 0 : Total Message Size 54 blocks : This transmission contains 2 messages.

Block No 1 : Link ID 45137 : 27th of month : Msg Number 215 : Msg Type 07145 : Group Count (?) 199
14837 55937 44551 38954 09959 01039 25055 63063

10156/8021/6794 kHz. 29-01, 1200/1210/1200 UTC, FSK 200/1000

Block No 0 : Total Message Size 54 blocks : This transmission contains 2 messages.

Block No 1 : Link ID 45137 : 27th of month : Msg Number 215 : Msg Type 07145 : Group Count (?) 199
14837 55937 44551 38954 09959 01039 25055 63063

20012/18351/16243 kHz, 31-01, 1100/1110/1120 UTC, FSK 200/1000

Block No 0 : Total Message Size 16 blocks : This transmission contains one message.

Block No 1 : Link ID 36882 : 29th of month : Msg Number 247 : Msg Type 07145 : Group Count (?) 98
07861 11369 40345 14933 43092 36423 29043 03249

20563/18470/16307 kHz, 31-01, 1500/1510/1520 UTC, FSK 200/1000

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.

Block No 1 : Link ID 32821 : 31st of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
49789 00000 00000 01913 22795 34779 00893 24154

X06 - Mazielka

12208 kHz, 07-1, 1440 UTC Mazielka. Sequence: 215346
18575 kHz, 15-1, 1229 UTC Mazielka. Sequence: 352416
12055 kHz, 15-1, 1633 UTC Mazielka. Sequence: 256134
14970 kHz, 21-1, 1101 UTC Mazielka. Sequence: 216354
11620 kHz, 22-1, 0826 UTC Mazielka. Sequence: 153624
14550 kHz, 22-1, 0829 UTC Mazielka. Sequence: 153624
11126 kHz, 28-1, 1310 UTC Mazielka. Sequence: 216354
16115 kHz, 30-1, 1502 UTC Mazielka. Sequence: 215346



XPA

12208 kHz, 07-01, 0740 UTC

192 192 192 000
01797 00001 00000 10140

9108/10908/12208 kHz, 10-01, 0700/0720/0740 UTC

192 192 192 000
05438 00001 00000 10140

6781/5391 kHz, 20-01, 1920/1940 UTC

873 873 873 000
06650 00001 00000 10140

7891 kHz, 22-01, 1900 UTC

873 873 873 000
07650 00001 00000 10140

8091/10908/12208 kHz, 24-01, 0700/0720/0740 UTC

192 192 192 000
04261 00001 00000 10140

7891/6791/5391 kHz, 13-01/15-01, 1900/1920/1940 UTC

873 873 873 1

04727 00267 66783 23850 58340 89657 02521 66920 92636 44269
31176 10682 94866 21118 23000 25759 77069 47314 55607 19082
94400 04021 82529 14021 42257 08103 96046 05674 47005 40270
11848 39951 19587 99538 47019 52918 46244 31665 96544 59998
85487 78840 35977 01580 78630 04432 15134 99396 82683 08164
07032 17777 93131 12940 44607 49164 69484 59350 81486 34015
37087 99293 35740 84332 94008 69499 43235 79610 63526 71101
72079 70745 02897 16225 94880 78240 98885 83577 09088 61377
39966 52189 43121 05874 76622 60054 14674 06319 15664 17190
52011 40103 24019 05848 66801 87879 37952 54181 57221 56059
77153 00640 60423 37129 18893 03490 92521 73101 38574 88637
93756 84823 85707 79888 40447 59885 65762 87560 01639 81471
82252 74143 09840 63319 53485 10854 54444 76931 38601 72750
22083 01630 34750 16846 32039 32055 60822 41577 92226 52046
93757 36729 24429 91353 20957 75203 16018 80997 40155 27610
34964 78740 24042 45764 36587 49758 77048 42988 00097 11805
37766 40510 91445 67169 64509 73115 11373 95308 16832 67193
99453 20853 98524 93813 95811 84221 23772 77563 66093 02470
22512 91045 42964 90446 19869 09967 56880 35072 22368 30025
50237 20286 21243 06799 30311 03194 25382 71770 55892 63097
02067 71675 69325 16131 85514 83394 64884 55991 39151 24199
81079 82774 21406 48883 05096 12988 94127 10919 16240 75646
76605 22310 33331 91679 16606 57079 72205 49464 58990 47735
96670 68990 74285 81456 77503 73577 88108 55109 25468 90992
58024 02765 73260 63546 63930 45593 00285 56377 30775 47096
49134 14553 41415 77611 65312 41243 43578 18729 50499 02792
00959 35008 43563 28475 78254 89452 65968 07650 73854 22773

12208 kHz, 17-01, 0740 UTC

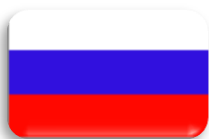
192 192 192 1

00695 00179 67492 11421 12409 99750 41756 17826 41590 39804
04447 27809 29487 30551 33076 06435 01425 47521 13555 27095
12557 48910 95926 33599 03639 53482 43388 97821 53500 92182
35411 68361 36312 02458 00639 19963 96721 76819 43153 21507
66986 78631 35924 95938 36267 54519 31316 86564 11097 17650
64076 48149 84603 26699 13671 02932 93259 71008 66496 17493
34159 77048 73964 88888 85487 47532 46746 11642 17513 32383
87378 77777 47134 61099 36347 73965 71513 12781 40197 42662
17478 46274 64476 41618 00059 53414 25269 79917 04531 06573
55364 38847 59154 47991 52314 54944 88740 23689 09409 54136
54393 73269 90660 00271 71802 73003 37706 97840 07694 95960
34568 42942 08112 66711 89812 81440 72989 99001 83785 86980
02059 38158 29364 10441 86586 06414 51494 51704 23923 98283
11356 34890 27542 21997 18495 78291 70594 87477 08262 00937
59795 26130 86122 38026 66684 00736 42146 02499 17748 99449
25534 20299 44214 56108 56092 44821 47185 87426 82261 02858
55915 93781 07068 60360 41560 47701 12111 60364 88075 77412
02644 36699 24812 66464 08511 31588 67080 36199 75910 76188
80126 16070

12208 kHz, 28-01, 0740 UTC

192 192 192 1

03266 00245 40993 91323 87060 15066 13984 77788 38962 34532
52321 06458 90225 27022 85623 53541 81527 11294 60887 68765
48039 01939 46157 26593 36078 16788 30824 96312 08380 12458
04103 68065 74984 39500 01001 25430 63230 43380 10554 15264
76884 00982 95573 33175 04102 50047 40515 67516 25654 59312
39208 69872 42987 70355 76961 15912 11008 84895 71668 76188
90932 69275 82888 51534 10288 10822 84741 04978 01070 07023
05014 13834 54026 88309 23232 60150 35809 81939 20595 90954
46564 61954 43069 71571 79442 23195 03364 17828 59804 71817
96704 60445 34546 23040 10397 50114 23215 61550 56087 42058
63511 21254 45166 27679 88845 39997 96212 84771 55015 20708
84673 78895 48996 37734 14927 21208 85544 09411 84317 38577
22400 99295 03220 17143 12002 78742 63710 45004 12098 20861
16785 21392 26987 88161 30271 83888 01982 35051 25154 68472
27793 27541 63312 26328 46719 47278 80786 56789 71992 49516
60587 27526 75738 03210 31178 13481 99145 71962 01145 71315
43429 93445 58831 67008 69289 65639 29092 97955 10668 43533
96396 78155 43807 84918 10011 13170 25754 72099 99253 84903
83155 71599 35876 84953 81939 86493 76472 31966 35462 57722
82101 27762 46225 65219 37316 58248 66644 70852 28451 02196
23183 21771 58279 08046 01625 37560 14392 69827 16431 91624
40780 33035 21094 87074 38773 57663 57027 07362 63885 35716
94013 91841 79277 21488 76344 85919 77493 72793 04496 09675
55827 16876 48955 61774 50539 17499 17715 74988 41542 15358
46228 28219 39713 23742 14482 51695 95826 15752



XPA2

14978/14378 kHz, 05-01, 0820/0840 UTC

05122 00001 00000 10140

16138/14438/13438 kHz, 06-01, 1300/1320/1340 UTC

07811 00000 00000 10140

15978/14978 kHz, 07-01, 0800/0820 UTC

05847 00001 00000 10140

16167/14663/13923 kHz, 09-01, 1400/1420/1430 UTC

04935 00001 00000 10140

16167/14663/13923 kHz, 10-01, 1400/1420/1440 UTC

03179 00001 00000 10140

16139 kHz, 11-01, 1300 UTC

05401 00001 00000 10140

15978/14978/14378 kHz, 12-01, 0800/0820/0840 UTC

08724 00001 00000 10140

16138/14438/13438 kHz, 13-01, 1300/1320/1340 UTC

06247 00001 00000 10140

15978/14978/14378 kHz, 14-01, 0800/0820/0840 UTC

06335 00000 00033 (corrupt transmission at 0800 UTC)

06435 00001 00000 10140

16167/13923 kHz, 16-01, 1400/1440 UTC

07998 00117 84602 01884 41184 92403 92079 66212 15352 02779

80824 48844 28206 85517 79318 62366 05983 63794 16201 68601

70547 44294 16114 32664 30076 23265 09678 52881 10270 25558

84913 54946 54629 29558 00847 08071 10082 21078 37314 05540

12645 32486 87471 36645 97761 33170 12055 25716 68363 35807

03201 76468 01147 92993 06376 62675 18727 37097 04685 58891

49541 43910 48884 22285 48452 60632 41819 74317 58031 35262

97779 70578 55267 58400 06570 78948 95528 70647 57578 55033

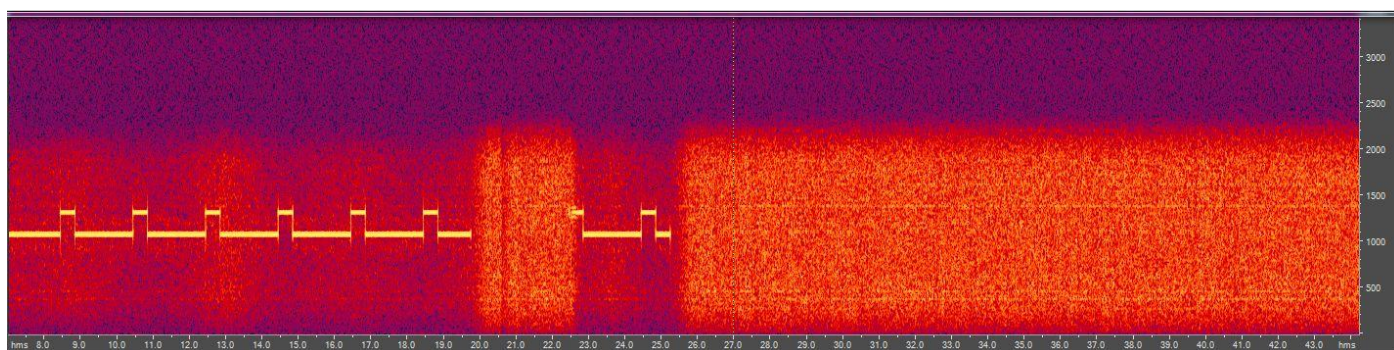
06557 06483 68884 81872 85898 16124 73888 93931 10028 25153

27392 63529 58607 13039 93320 79677 46612 80968 17860 50081

56613 49276 97109 15637 84946 56012 01325 37597 02548 34378

45220 99646 37852 02911 45042 36795 29512 35820 92600 34441

14663 kHz, 16-01, 1420 UTC. Start tones, off, start tones, off. Didn't come back (sonogram by Paul Beaumont)



16167/14663/13912 kHz, 24-01, 1400/1420/1440 UTC

01756 00001 00000 10140

16138/14438/13438 kHz, 27-01, 1300/1320/1340 UTC

01928 00001 00000 10140

15978/14978/14378 kHz, 28-01, 0800/0820/0840 UTC

08854 00001 00000 10140

16167/14663/13923 kHz, 31-10, 1400/1420/1440 UTC

07391 00001 00000 10140

16138/14438/13438 kHz, 18-01/20-01, 1300/1320/1340 UTC

07171 00107 35649 84043 10416 74882 90055 99134 65292 02068

13711 14697 10058 15416 76858 19972 91505 80790 02523 99163

85845 17978 91764 57667 45031 40776 58847 03202 88318 09116

95065 13735 67489 70470 21550 97119 56509 08311 65560 17831

63572 52040 52094 46064 67219 87621 39473 90872 65251 69689

63938 02740 40348 36176 62371 39511 66180 19342 47788 70213

87337 55255 69906 41901 32810 29318 65336 11136 35443 95655

63663 98337 67619 27302 33128 95862 51197 53772 23544 99621

08542 94201 48628 50964 99533 26457 24482 88471 55031 69422

32813 61363 31608 76540 96017 28228 27610 88871 95681 69399

72586 08418 77346 58771 90427 96920 23986 38026 08125 73323

14978/14378 kHz, 19-01, 0820/0840 UTC

01478 00247 78459 43616 64596 02687 85230 43460 48614 19590
02825 73901 68865 05219 99231 43138 25410 47715 53097 15425
59341 49403 02579 84802 40052 16041 34194 36963 50932 44583
46780 22072 18062 41214 86588 88481 81532 41609 53409 34858
73583 35998 17285 00337 00062 89336 14783 39301 03144 48073
67628 93288 01569 68822 56945 08183 57811 27401 16458 13628
77067 34577 04388 03810 16630 26878 06082 39595 55311 63388
05500 02117 56691 06132 79459 45458 77705 55185 42587 84727
74228 87403 45633 31243 22888 44677 92333 26766 38522 42855
73982 27676 03466 96086 83355 92299 83310 80074 54324 35402
06960 48294 00371 54218 08538 24893 45396 56005 12350 07876
41735 73517 20843 53078 06144 66193 82284 49200 51898 11882
37514 13211 16888 79945 90629 68726 56470 10297 65021 60745
58032 65712 51437 58651 89695 10283 93570 45706 35905 02803
05417 91715 81630 78692 65048 73925 45574 65193 55272 87010
03763 17274 14643 49399 20208 58609 15746 16242 96327 19270
12749 55889 55841 42316 49246 11881 45453 41868 08909 24409
80372 93132 84319 19306 00202 27860 34137 35662 68957 47011
14918 83346 95975 29233 75188 00432 40840 89529 40557 05474
76584 13033 04656 43274 08014 48789 51217 37719 04790 58904
46935 87612 80817 61591 59240 15533 98576 29620 70455 20169
23247 98970 62972 17153 37617 22017 57598 38979 85851 71134
06089 45280 83129 02326 87140 28894 53558 20926 32519 35392
78398 03729 17431 97790 28727 39346 00496 33803 40593 36100
64872 53578 58778 84239 23449 56513 06690 28895 56724 44715

14978/14378 kHz, 25-01, 0820/0840 UTC

00122 00193 75835 45158 65045 66256 78233 77803 32433 58987
64592 08451 92127 26431 69736 94037 35395 92189 51168 24296
34360 29532 08644 42206 44799 08636 95324 55995 85551 69791
84473 72370 96321 15701 63263 20223 33544 59422 42386 61688
67482 51781 62974 10941 25738 87228 63091 68914 16926 50023
96144 61097 69586 33644 98249 69069 98793 87180 70184 17381
29691 98914 30978 31081 06787 58515 29296 00274 17502 63344
11776 56696 45113 40039 56245 27201 11380 16820 18012 49389
33474 22456 57378 61008 30893 44544 32353 09888 42321 65488
80061 91019 07477 20965 88066 30339 63924 95552 09233 83369
62046 05552 06526 08739 92677 84772 87658 84663 62918 81350
52828 18265 71293 39491 74816 48022 64147 46754 18140 11601
38826 82818 70708 13173 42139 78653 40809 26387 36009 12685
46004 92436 50614 62233 03917 93554 39223 08432 58438 30959
05931 16364 65906 00547 10702 30675 55362 53395 76465 33294
40209 52224 63702 74700 94520 75056 29201 71357 69981 80902
03968 49666 21631 36082 01804 35070 20478 03011 95656 20503
51604 30005 91859 82896 46627 39202 89426 69246 86049 87295
03236 29482 52853 30178 63221 06847 54278 23434 11180 20702
46774 12459 39277 13121 28937 06312

16167/14663/13923 kHz, 30-10, 1400/1420/1440 UTC

03722 00135 70411 23011 77570 87995 48022 44233 86047 00278
12567 05742 84628 30545 22983 33285 00023 60727 16444 13376
46365 18626 40310 70224 35541 28184 14414 01273 19660 02305
88856 64593 69432 95330 91526 89192 17388 20564 73718 06423
07613 01852 35902 26241 11842 76329 37681 28561 96750 34353
13699 34554 52316 04800 23157 68505 61269 84037 08700 88001
06033 51604 76859 95989 87783 07114 01167 25401 57273 40430
44826 32588 19634 72124 47861 85767 21384 28979 82605 72862
00266 46486 71007 09122 75441 43254 77613 58231 81893 57464
82473 88600 06174 92331 20953 84915 09663 31497 04514 01920
84012 38459 47755 12902 13581 10569 38149 74170 79124 47608
46595 48779 79680 72931 67901 35912 62225 05939 54953 83424
40871 32289 00005 84534 17805 06921 21605 86162 76380 07067
93482 36569 82531 42203 36650 08561 18155 34445



FSK POL
Polish Intelligence
(E11 family)

The Polish Intelligence digital transmissions have 3 configurations:

FSK 100/740 (mark/space 1210/1950 Hz)

FSK 100/625 (mark/space 1325/1950 Hz)

FSK 100/500 inverted (space/mark 1970/2470 Hz)

frequency	Date	UTC	remarks	mode
16388	1-1-2015	0730	Polish intel.	FSK 100/740
16388	1-1-2015	0735	Polish intel.	FSK 100/740
10359	2-1-2015	0655	Polish intel.	FSK 100/740
10359	2-1-2015	0700	Polish intel.	FSK 100/740
13575	2-1-2015	1405	Polish intel. Msg	FSK 100/740
13575	2-1-2015	1410	Polish intel. Msg	FSK 100/740
13575	4-1-2015	1405	Polish Intel. Msg	FSK 100/740
13575	4-1-2015	1405	Polish Intel. Msg	FSK 100/740
15915	4-1-2015	1525	Polish Intel. Null msg	FSK 100/740
15915	4-1-2015	1530	Polish Intel. Null msg	FSK 100/740
6836	5-1-2015	0800	Polish Intel.	FSK 100/740
6836	5-1-2015	0805	Polish Intel.	FSK 100/740
9370	5-1-2015	0845	Polish Intel. Null msg	FSK 100/740
9370	5-1-2015	0850	Polish Intel. Null msg	FSK 100/740
12630	5-1-2015	1000	Polish Intel. Null msg. ID 0765	FSK 100/500
12630	5-1-2015	1005	Polish Intel. Null msg. ID 0765	FSK 100/500
15915	5-1-2015	1525	Polish Intel. Msg	FSK 100/740
15915	5-1-2015	1530	Polish Intel. Msg	FSK 100/740
5463	6-1-2015	1520	Polish Intel. ID 0797	FSK 100/625
9370	7-1-2015	0845	Polish Intel.	FSK 100/625
9370	7-1-2015	0850	Polish Intel.	FSK 100/625
5815	7-1-2015	1005	Polish Intel. Msg	FSK 100/625
5815	7-1-2015	1010	Polish Intel. Msg	FSK 100/625
8102	7-1-2015	1030	Polish Intel. Msg	FSK 100/625
8102	7-1-2015	1035	Polish Intel. Msg	FSK 100/625
15915	7-1-2015	1140	Polish intel. Msg	FSK 100/625
15915	7-1-2015	1145	Polish intel. Msg	FSK 100/625
16388	8-1-2015	0735	Polish Intel. Msg	FSK 100/625

frequency	Date	UTC	remarks	mode
6836	8-1-2015	0800	Polish Intel. Msg	FSK 100/625
6836	8-1-2015	0800	Polish Intel. Msg	FSK 100/625
12630	8-1-2015	1005	Polish intel. Null msg	FSK 100/625
15915	8-1-2015	1140	Polish intel.	FSK 100/625
15915	8-1-2015	1145	Polish intel.	FSK 100/625
10359	9-1-2015	0700	Polish intel.	FSK 100/625
9576	9-1-2015	1005	Polish intel. Null msg	FSK 100/740
9576	9-1-2015	1010	Polish intel. Null msg	FSK 100/740
13575	9-1-2015	1405	Polish intel. Null msg	FSK 100/625
13575	9-1-2015	1410	Polish intel. Null msg	FSK 100/625
5815	10-1-2015	1005	Polish Intel.	FSK 100/625
5815	10-1-2015	1010	Polish Intel.	FSK 100/625
4840	10-1-2015	1430	Polish intel.	FSK 100/625
4840	10-1-2015	1435	Polish intel.	FSK 100/625
6836	12-1-2015	0800	Polish intel. Msg	FSK 100/625
6836	12-1-2015	0805	Polish intel. Msg	FSK 100/625
9370	12-1-2015	0845	Polish intel.	FSK 100/740
9370	12-1-2015	0850	Polish intel.	FSK 100/740
12630	12-1-2015	1000	Polish intel.	FSK 100/740
12630	12-1-2015	1005	Polish intel.	FSK 100/740
15915	12-1-2015	1525	Polish intel. Null msg	FSK 100/625
15915	12-1-2015	1530	Polish intel. Null msg	FSK 100/625
16388	13-1-2015	0735	Polish Intel.	FSK 100/625
16388	13-1-2015	0740	Polish Intel.	FSK 100/625
9576	13-1-2015	1005	Polish Intel. Msg	FSK 100/740
9576	13-1-2015	1010	Polish Intel. Msg	FSK 100/740
8102	13-1-2015	1035	Polish intel.	FSK 100/625
5463	13-1-2015	1520	Polish Intel. Null msg	FSK 100/625
5463	13-1-2015	1525	Polish Intel. Null msg	FSK 100/625
5815	14-1-2015	1010	Polish Intel.	FSK 100/625
8102	14-1-2015	1030	Polish Intel.	FSK 100/625
8102	14-1-2015	1030	Polish Intel.	FSK 100/625
16388	15-1-2015	0730	Polish Intel.	FSK 100/625
16388	15-1-2015	0735	Polish Intel.	FSK 100/625
12630	15-1-2015	1000	Polish Intel.	FSK 100/625
12630	15-1-2015	1005	Polish Intel.	FSK 100/625
15915	15-1-2015	1140	Polish Intel. Null msg	FSK 100/625
15915	15-1-2015	1145	Polish Intel. Null msg	FSK 100/625
10359	16-1-2015	0655	Polish intel. Msg	FSK 100/625
10359	16-1-2015	0700	Polish intel. Msg	FSK 100/625
9576	16-1-2015	1010	Polish Intel. Msg	FSK 100/625
13575	16-1-2015	1405	Polish Intel.	FSK 100/625
13575	16-1-2015	1405	Polish Intel.	FSK 100/625
13575	18-1-2015	1405	Polish Intel. Null msg	FSK 100/625
13575	18-1-2015	1410	Polish Intel. Null msg	FSK 100/625
10359	20-1-2015	0655	Polish Intel.	FSK 100/625
10359	20-1-2015	0700	Polish Intel.	FSK 100/625
16388	20-1-2015	0730	Polish Intel.	FSK 100/625
16388	20-1-2015	0735	Polish Intel.	FSK 100/625
5815	21-1-2015	1005	Polish Intel. Null msg	FSK 100/625
8102	21-1-2015	1030	Polish Intel. Null msg	FSK 100/625
8102	21-1-2015	1035	Polish Intel. Null msg	FSK 100/625
15915	21-1-2015	1140	Polish Intel. Msg	FSK 100/625

frequency	Date	UTC	remarks	mode
15915	21-1-2015	1145	Polish Intel. Msg	FSK 100/625
4840	21-1-2015	1435	Polish Intel.	FSK 100/625
16388	22-1-2015	0735	Polish Intel. Null msg	FSK 100/625
12630	22-1-2015	1000	Polish Intel. Null msg	FSK 100/625
12630	22-1-2015	1005	Polish Intel. Null msg	FSK 100/625
7499	23-1-2015	0900	Polish Intel. Msg	FSK 100/625
7499	23-1-2015	0900	Polish Intel. Msg	FSK 100/625
4840	24-1-2015	1435	Polish Intel.	FSK 100/625
6836	25-1-2015	0800	Polish Intel.	FSK 100/625
6836	25-1-2015	0805	Polish Intel.	FSK 100/625
9370	25-1-2015	0845	Polish Intel. Msg	FSK 100/625
9370	25-1-2015	0850	Polish Intel. Msg	FSK 100/625
12630	25-1-2015	1000	Polish Intel. Msg	FSK 100/625
12630	25-1-2015	1005	Polish Intel. Msg	FSK 100/625
7772	27-1-2015	0635	Polish Intel. Msg	FSK 100/625
10359	27-1-2015	0655	Polish Intel. Null msg	FSK 100/625
10359	27-1-2015	0700	Polish Intel. Null msg	FSK 100/625
16388	27-1-2015	0830	Polish Intel. Null msg	FSK 100/625
16388	27-1-2015	0835	Polish Intel. Null msg	FSK 100/625
5463	27-1-2015	1520	Polish Intel.	FSK 100/625
5815	28-1-2015	1005	Polish Intel.	FSK 100/625
8102	28-1-2015	1030	Polish Intel.	FSK 100/625
8102	28-1-2015	1035	Polish Intel.	FSK 100/625
15915	28-1-2015	1050	Polish Intel.	FSK 100/625
15915	28-1-2015	1055	Polish Intel.	FSK 100/625
6836	29-1-2015	0805	Polish Intel.	FSK 100/625
12630	29-1-2015	1000	Polish Intel.	FSK 100/625
12630	29-1-2015	1005	Polish Intel.	FSK 100/625
13575	30-1-2015	1405	Polish intel.	FSK 100/625
13575	30-1-2015	1410	Polish intel.	FSK 100/625



North Korean diplomatic stations

23980.0 kHz, 02-1, 1434 UTC N. Korean Embassy, Havana DPRK-ARQ 600/600 LSB
11318.5 kHz, 05-1, 0503 UTC N. Korean diplo DPRK-ARQ 600/600
20160.0 kHz, 11-1, 0849 UTC MFA Pyongyang DPRK-ARQ 600/600 LSB
19033.0 kHz, 11-1, 1023 UTC MFA Pyongyang DPRK-ARQ 600/600 LSB
18456.0 kHz, 12-1, 1012 UTC MFA Pyongyang DPRK-ARQ 600/600 LSB
19043.0 kHz, 15-1, 0947 UTC MFA Pyongyang DPRK-ARQ 600/600 LSB
19863.0 kHz, 15-1, 1027 UTC MFA Pyongyang DPRK-ARQ 600/600 LSB
14478.5 kHz, 20-1, 1555 UTC N. Korean Diplo DPRK-ARQ 600/600
13331.5 kHz, 28-1, 1405 UTC N. Korean Diplo DPRK-ARQ 600/600 LSB



Egyptian diplomatic stations

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

10220.0 kHz, 03-1, 1809 UTC MFA Cairo signing off SITOR-A 100/170
 18034.7 kHz, 07-1, 1425 UTC MFA Cairo clg embassy Muscat TVXY SITOR-A 100/170
 11112.7 kHz, 07-1, 1514 UTC MFA Cairo clg embassy Muscat SITOR-A 100/170
 18034.7 kHz, 08-1, 0854 UTC Egyptian embassy Bamako clg MFA Cairo SITOR-A 100/170
 18036.7 kHz, 08-1, 0856 UTC MFA Cairo clg embassy Islamabad SITOR-A 100/170
 19066.0 kHz, 08-1, 1550 UTC MFA Cairo Codan-15
 19067.7 kHz, 08-1, 1614 UTC MFA Cairo SITOR-A 100/170
 16034.7 kHz, 11-1, 1325 UTC MFA Cairo clg TVQX followed by Codan-9001 data SITOR-A 100/170
 16011.5 kHz, 20-1, 1258 UTC MFA Cairo clg embassy Manama (TVXS) followed by CODAN-9001 data SITOR-A 100/170
 16159.8 kHz, 21-1, 1240 UTC MFA Cairo clg embassy New Delhi (OOVC) SITOR-A 100/170
 18189.7 kHz, 27-1, 1629 UTC Egyptian embassy Bamako tfc to MFA Cairo headed ?jg: ykjyzkw? SITOR-A 100/170
 25016.5 kHz, 31-1, 1335 UTC MFA Cairo msg to RCVB, embassy Washington Codan-16



Chinese diplomatic stations

Mode: 4+4 75/1000 LSB

8073 kHz, 06-01, 1215 UTC, 4+4 75/1000 LSB

022 773 024 773 025 773 026 773 353 403
 993 447 468 386 480 483 030 773 031 773
 032 773 033 773 353 372 403 993 446 (&
 384 480 486
 MSG AGN
 NR0022 CK363 35 0106 1617 --
 006 326 319 327 012 773 353 372 403 993
 447 468 385 480 486 017 773 353 372 404
 993 445 382 346 938 403 993 447 468 385
 BGNC BNGC BNGC DE VSF85 VSF85
 BNGC BNGC BNGC DE VSF85 VSF85

UTILITY ROUND-UP



Unid stations

Possibly a diplomatic net. Copied by JPL.

10470 kHz, 13-01, 0133 UTC, CW

DE
 VOR .OR VOR
 CQ CQ CQ GBV
 CQ CQ CQ .YR YRM 3RM QS. SV
 .LF R .NN VA
 CQ CQ DE YRM YRM QSV QSV K
 R DE
 .OZ R ZNN VA

10540 kHz, 13-01, 0946 UTC, CW

ZE NP DL HB CD FE QX HY

TO L\U IRJS TLI ZTA BU

EXJ OCC QO PK LO XAI IM\OP U..W

EZJ

WDJQQK

Z.N. KL GRH MZ ... RB L.. C\H WSA O\H AR

M\O \AHP NBM WNL TH UB HM \HH

C... YH DO OK

DFZ U... \HO ..Y ..

7734 kHz, 13-01, 0130 UTC, CW

WAJ (Cont'd)

NL. BL GN BL GN BL GN BDNT

... BLGN K BLGN BLGN BLGN BLGN

O ..QCQ Q.. WQC..QC

VVV (Cont'd)

ASCI ASCI ASCI .. ODE

Another unid was copied by JPL on 5427 kHz, 20-01, 259 TC, CW

AI9Y R 080 K

AI9Y R 400 K

5574 kHz, 29-01, 012 UTC, copied by JPL

Notes: Machine sent, the 0 (zero) was sent as "Y"

i.p. 26623 14134 21027 98503 54059 13451 94892 18726 49587 61363

01494 36456 31859 34503 27023 AR

ZZQ9 ZZQ9 ZZQ9 QTC 916 =

95607 28430 27106 09658 754EEEE 09658 75321 00936 52101 45950

86038 02576 73542 08064 42015 18068 25528 45027 45764 12536

85631 12230 43.72 84391 43053 52217 42485 92468 51304 AR

ZZQ9 ZZQ9 ZZQ9 QTC 963 =

PPPPP ADSCL VA... (Cont'd)

RUSSIAN MILITARY TRANSCRIPTS

Extracts of the large number of logs submitted by André, Al, Antonio, Wolfgang, Bruno, Ary, JPL, Jay



RMv/RNv/RNAv/RAv ***Russian military stations***

Frequency: various

Mode: USB / voice

18030 kHz, 13-01, 1300 UTC: Russian Air Force station Korsar clg Polis, Proselok, Davelnye, Klarinetist, Poletnoj



M32 ***Russian/CIS Military CW Stations***

4079 kHz, 05-01, 1837 UTC XXX RJC66 RJE71 RIO96 98746 BRIWALA 4302 4368 K

3582 kHz, 17-01, 0043 UTC DE PACD K. 6LY DE PACD NPT K. 6LTY DE PACD ZTT ZG. ZCU K. OK K. QRV K

14557 kHz, 20-01, 0939 UTC XXX XXX MSK7 MSK7 13805 ZOOTEHNIAe 6161 9010

21.1 kHz, 22-01, 1643 UTC XXX XXX WEGI WEGI 18804 18876 RATELX 8129 7912 K
21.1 kHz, 22-01, 1803 UTC XXX XXX LZT6 LZT6 83237 32529 SALTYS 8678 2420 K
5376 kHz, 22-01, 1636 UTC XXX XXX WEGI WEGI 18804 18876 RATELX 8129 7912 K
5596 kHz, 30-01, 1817 UTC 6Y2P ZRO ZTC ZDL QYT 4 K. 6Y2P ZRO ZTC ZDL QYT 4 K. R K

10164 kHz

15-01, 1012 UTC XXX XXX LZT6 LZT6 62014 14926 IERARHIAe 0368 2590
29-01, 1231 UTC XXX XXX WEGI WEGI 761_9 50532 PIHRA 0807 3711 K
29-01, 1240 UTC XXX XXX RGT77 RGT77 51298 83763 SKRUTINA 7145 5056 K
29-01, 1241 UTC XXX XXX LZT6 LZT6 85733 07330 ODUL 8881 6461 K

11001 kHz, 09-01,

1315 UTC SY9S SY9S SY9S DE 6U5R K
1315 UTC 4WFK 4WFK 4WFK DE 6U5R K
1316 UTC TZ5Y TZ5Y TZ5Y DE 6U5R K
1316 UTC CHAY CHAY CHAY DE 6U5R K
1337 UTC 2WOU 2WOU 2WOU DE 6U5R QSA ? K

10442.5 kHz, 10-01

0800 UTC XXX 1QRF 97029 PROBEL 1396 3924 DOPISKA 1731 0622 K)
0800 UTC XXX 1QRF43949 KOMECTURA 2306 7776
0804 UTC XXX 1QRF 94472 PREEMUTWO 8014 8842 STEKOLXNÂ 2300 9492)
0948 UTC XXX MSK7 66342 TRANSPORT 3453 0892 ASPERULA 8553 8760 K
0950 UTC XXX MSK7 88478 BRASSIKON 4647 7561 POLIMENT 9127 6954 K
0952 UTC XXX MSK7 83709 KONSERWNYJ 0545 0030 K
1001 UTC XXX MSK 7 42549 STEROFIZIN 8726 2008 K

5267 kHz, 19-01

1806 UTC 2QY3 DE ITKJ K. PSQ5 DE ITKJ K
1807 UTC PSQ5 DE ITKJ K. J8JA DE ITKJ K
1809 UTC ITKJ R K

3695 kHz, 23-01, 1338 UTC

ZMC ZNW ZIM K
OK R K
GJCU DE TFCK QSA ? K
DE GJCU QSA 2...
QSA 2 ZWJ ZSS ZXR K
OK R K
BDUR DE TFCK QSA ? K
BDUR DE TFCK QSA ? K

9192 kHz, 26-01, 0954 UTC

61277 84254 54367 26020 885 K
R K
LGYN DE DYLG R ? K
R K
TYZM DE DYLG R ? K
R K
J7XN DE DYLG R ? K

5403 kHz, 26-01, 1506 UTC

RDL 59098 15258 59098 15258 59098 15258 K

5736 kHz, 26-01, 1009 UTC

LJP6 LJP6 QTC
353 55 26 1700 353 =
811 =
11111 34642 86996 11717 (Cont'd)

5775 kHz, 26-01, 2226 UTC

i.p. 12437 11181 56292 89969 00446 57881 78977 23604 42665 08202
 72306 36443 83751 07191 63267 30408 03723 17630 26884 14462
 636010823 10998 56926 26094 K
 O72Z R 702 K
 OK AS
 ZZA OR.. 2 K
 OK AS



M32a
Russian Navy
Voyenno-Morskoy Flot Rossii

6836 kHz, 04-01, 0601 UTC RMW46 wkg RGR49 RGR87 RGR88 RGR89 RGR90 RGR91 RGR92 RFH46 RGR93 RGR94 RGR95
 RGR96 RGR97 RDQ81 RGR98
 12464 kHz, 02-01, 1524 UTC RCV de RHO62 QSA ? QTC K
 10543 kHz, 03-01, 1545 UTC RGX94 de RCV QTC 867 16 3 1350 867 = NAWAREA 035 4 KARTA 36308 POBEREVXE ALVIRA
 OGONX MAÂKA GARD 36/58/03 S 007/47/01 W DEJSTWUET NE NADEV NO AR
 5009 kHz, 03-01, 1653 UTC RCV de RIR98 K and RIR98 de RCV
 5343 kHz, 03-01, 1846 UTC RGR35 de RIT QYT4 QSA 1
 5224 kHz, 04-01, 0526 UTC RIP90 de RCV QTC 406 ...
 3192 kHz, 15-01, 1752 UTC REO de RMP QTC 117 30 4 2001 117 = DEJSTWUÛQIE NAWAREA I NAWIP NA 040000 ÂN WARX
 2015 GOD IZ OBXÂWLENNYH ZA POSLEDNIE +ESTX NEDELX RAJON 00 NAWIP 2015 GOD 000
 1/RAJON 01 NAWIP 2014 GOD 013 1527/013 1528/ = AR
 5009 kHz, 04-01, 1802 UTC RCV de RIR98 QTC 547 18 4 2100 547 = SML FOR RJE73 RJH45 = 04191 99359 10348 41497 62306
 10160 40160 54000 70222 86330 22200 00180 20201 22200 00180 20201 88000 04014 = AR
 RIR98 K and RIR98 de RCV QSL 547 K
 5916 kHz, 04-01, 1844 UTC RIC87 de RCV QTC 226 54 3 0924 226 = PRIP NOWOROSSIOSK 1 KARTA 32103 ORNOE MORE
 STRERXBYEARDLLEA R08 PO 10 I 12 PO 17 ...
 6857 kHz, 04-01, 2001 UTC RGT77 = 055 = PPPPP WBÂTP FÛWRI = K //6883 kHz
 3395.5 kHz, 04-01, 2018 UTC RFH77 de RCV QYT4 QSA 3 QWH K
 12671 kHz, 05-01, 1321 UTC RAA de RCV exchanges QSA for QYT9
 12671 kHz, 05-01, 1321 UTC RCV de RAA: exchanges QSA for QYT9
 10543 kHz, 05-01, 0909 UTC RIP90 RIP90 RIP90 DE RCV RCV QTC 398 361 1327 398 = NAWIP 0326 KARTY 32212 32204 93241
 8018 kHz, 26-01, 0941 UTC RJF95 786 55 26 1206 786 = AAAAA HVVST ZGMFÄ
 14556 kHz, 26-01, 0840 UTC VVV RAL46 RAL46 RAL46 DE RIW RIW QSA? QTC K
 14556 kHz, 26-01, 0913 UTC RDND DE RIW K. RDND DE RIW QRR3 SK K. RDND DE RIW K. RDND DE RIW QSU1 QWH 13086
 QSX 12260 K
 13086 kHz, 26-01, 0925 UTC KARAVAN Ya PROGRESS (RC and ending)
 13086 kHz, 26-01, 0932 UTC RDND DE RIW K. RWW QYT4 QWH 9700 12056 QSX 8318 12374 FM RAA K
 13086 kHz, 26-01, 0957 UTC RIW 697 6326 1100 697= FM RAA = 64222 81201 03474 95649 13421 ...



M32b
Russian Naval Aviation
Aviatsiya Voennno-morskogo Flota Rossii

4979 kHz, 04-01, 2004 UTC RAL2 clg RIB2 RGH2 RMW2 RHQ2 RBL66
 9933 kHz, 05-01, 0903 UTC RAL2 wkg RIB2 RGH2 RGH2 RMW2 RHQ2 RBL66



M32c

Russian Air Force

Voyenno-vozdushnye sily Rossii

8112 kHz - Tu-95MS Bear H net

22-01, 1220 UTC W-markers
 22-01, 1224 UTC P6ZI DE IWV4 K
 23-01, 0900 UTC W-markers
 24-01, 0820 UTC W-markers
 24-01, 0840 UTC W-markers
 24-01, 0900 UTC W-markers
 28-01, 0629 UTC ?IV4 DE F76Y K
 28-01, 0540 UTC W-markers
 28-01, 0838 UTC Ü-markers
 28-01, 0840 UTC W-markers
 28-01, 1858 UTC Ü-markers
 28-01, 1900 UTC W-markers

Note from Tom:

Ü-markers last noted on 17 June 2014. It appears to be a new routine in order that the Markers don't block each other.

Ü-markers transmitted for 2 minutes followed by W-markers for 2 minutes.

14557 kHz, 26-01, 0841 UTC REA4 REA4 = 26070 99900 25120 62596 75997 20602 11240 21271 80001 = REA4 K

LOGS SECTION

The logs are sorted on Code, date and time.

Freq.	Code	Date	UTC	Day	Remarks	Mode	Contributor
10470	---	13-1	0133	Tue	CQ CQ CQ GBV CQ CQ DE YRM YRM QSV QSV K	CW	(JPL-Sib)
10540	---	13-1	0946	Tue	TO LÜ IRJS TLI ZTA BU EXJ OCC QO PK LO XAI IMÖP U..W	CW	(JPL-Sib)
7734	---	14-1	0131	Wed	WAJ WAJ WAJ NL. BL GN BL GN BL GN BDNT K BLGN BLGN BLGN BLGN	CW	(JPL-Sib)
5427	---	20-1	2259	Tue	AI9Y R 080 K. AI9Y R 400 K	CW	(JP-Sib)
5574	---	29-1	1012	Thu	i.p. 26623 14134 21027 98503 54059 13451 94892 18726 49587 61363 ... (note: Y =0)	CW	(JPL-Sib)
8073	CHN	6-1	1215	Tue	Chinese diplo Beijing: ... 346 938 403 993 447 468 385 BGNC BNGC BNGC DE VSF85	4+4 75/1000 LSB	(EW)
23980	DPRK	2-1	1434	Fri	N. Korean Embassy, Havana	DPRK-ARQ 600/600 LSB	(MCO)
11318.5	DPRK	5-1	0503	Mon	N. Korean diplo	DPRK-ARQ 600/600 LSB	(BCI)
20160	DPRK	11-1	0849	Sun	MFA Pyongyang	DPRK-ARQ 600/600 LSB	(EW)
19033	DPRK	11-1	1023	Sun	MFA Pyongyang	DPRK-ARQ 600/600 LSB	(EW)
18456	DPRK	12-1	1012	Mon	MFA Pyongyang	DPRK-ARQ 600/600 LSB	(EW)
19043	DPRK	15-1	0947	Thu	MFA Pyongyang	DPRK-ARQ 600/600 LSB	(EW)
19863	DPRK	15-1	1027	Thu	MFA Pyongyang	DPRK-ARQ 600/600 LSB	(EW)
14478.5	DPRK	20-1	1555	Tue	North Korean Diplo	DPRK-ARQ 600/600 LSB	(AAI)
13331.5	DPRK	28-1	1405	Wed	North Korean Diplo	DPRK-ARQ 600/600 LSB	(AAI)
5728	E06	14-1	1700	Wed	215 870 65 57040 08130 63167 ... 34039 24914 53542 870 65 00000	AM	(Avare)
4827	E06	14-1	1730	Wed	215 870 65 57040 08130 63167 ... 34039 24914 53542 870 65 00000	AM	(Avare)
16350	E06	15-1	0700	Thu	139 475 103 04898	USB	(HFD)
4836	E06	15-1	2030	Thu	321 569 20 14259 22676 32782 ... 73311 98089 12250 569 20 00000	USB	(AB/GHn/M PJ)

Freq.	Code	Date	UTC	Day	Remarks	Mode	Contributor
16350	E06	16-1	0700	Fri	139 475 103 04898 27703 80395 ... 05587 05989 47106 475 103 00000	USB	(AB)
5931	E06	28-1	1700	Wed	215 394 62 26007 17433 13765 ... 46848 99145 394 62 00000	USB	(AB)
4816	E06	28-1	1730	Wed	215 394 62 26007 17433 13765 ... 46848 99145 394 62 00000	USB	(AB)
8194	E07	4-1	1800	Sun	172 1 374 46 51078 74990 02650 ... 68076 89860 84413 000 000	AM	(Avare)
6982	E07	5-1	2000	Mon	981 1 146 28 29930	AM	(HFD)
5182	E07	5-1	2000	Mon	981 1	AM	(HFD)
5882	E07	5-1	2020	Mon	981 1	AM	(HFD)
8194	E07	7-1	1800	Wed	172 1 374 46 51078	AM	(HFD)
6794	E07	7-1	1820	Wed	172 1	AM	(HFD)
5294	E07	7-1	1840	Wed	172 1	AM	(HFD)
6777	E07	8-1	2110	Thu	carrier, no transmission heard. Off at 21:12:34	AM	(AB)
5449	E07	8-1	2110	Thu	744 744 744 000	AM	(AB)
8194	E07	11-1	1800	Sun	172 0	AM	(HFD)
6794	E07	11-1	1820	Sun	172 0	AM	(HFD)
6982	E07	12-1	2000	Mon	981 1 9805 36 33904 04986 59480 ... 42740 20625 81710 000 000	AM	(AB)
5449	E07	15-1	2130	Thu	744 744 744 000	AM	(AB)
8194	E07	21-1	1800	Wed	172 172 172 000	AM	(AB)
5882	E07	26-1	2020	Mon	981 981 981 000	AM	(MPJ)
8194	E07	28-1	1800	Wed	172 1 949 126 57167 88120 79271 57828 ... 37119 17765 27060 000 000	AM	(AB/MPJ)
6784	E07	28-1	1820	Wed	172 1 949 126 57167 88120 79271 57828 ... 37119 17765 27060 000 000	AM	(AB/MPJ)
5294	E07	28-1	1840	Wed	172 1 949 126 57167 88120 79271 57828 ... 37119 17765 27060 000 000	AM	(AB/GHn/MPJ)
11123	E07a	3-1	0900	Sat	114 0	USB	(HFD)
12123	E07a	3-1	0920	Sat	114 0	USB	(HFD)
7632	E07a	9-1	1610	Fri	688 0	USB	(HFD)
6832	E07a	9-1	1630	Fri	688 0	USB	(HFD)
11123	E07a	10-1	0900	Sat	114 114 114 000	USB	(AB)
12123	E07a	10-1	0920	Sat	114 114 114 000	USB	(AB)
5877	E07a	14-1	2100	Wed	825 1 34430 9097 85 39573	USB	(HFD)
5277	E07a	14-1	2120	Wed	825 1 34430	USB	(HFD)
4577	E07a	14-1	2140	Wed	825 1 34430	USB	(HFD)
5111	E07a	15-1	0530	Thu	189 1 34430 9097 85 39573	USB	(HFD)
5811	E07a	15-1	0550	Thu	189 1 34430	USB	(HFD)
6911	E07a	15-1	0610	Thu	189 1 34430	USB	(HFD)
7632	E07a	16-1	1610	Fri	688 1 17763 6411 79 07047 95986 84023 ... 42480 69723 71290 000 000	USB	(AB)
6832	E07a	16-1	1630	Fri	688 1 17763 6411 79 07047 95986 84023 ... 42480 69723 71290 000 000	USB	(AB)
5832	E07a	16-1	1650	Fri	688 1 17763 6411 79 07047 95986 84023 ... 42480 69723 71290 000 000	USB	(AB)
11123	E07a	17-1	0900	Sat	114 1 17763 6411 79 07047 95986 84023 ... 42480 69723 71290 000 000	USB	(AB)
12123	E07a	17-1	0920	Sat	114 1 17763 6411 79 07047 95986 84023 ... 42480 69723 71290 000 000	USB	(AB)
13423	E07a	17-1	0940	Sat	114 1 17763 6411 79 07047 95986 84023 ... 42480 69723 71290 000 000	USB	(AB)
5877	E07a	21-1	2100	Wed	825 1 17077 981 95 15125 91745 29699 ... 97369 78250 99423 000 000	USB	(AB)
5277	E07a	21-1	2120	Wed	825 1 17077 981 95 15125 91745 29699 ... 97369 78250 99423 000 000	USB	(AB)
4577	E07a	21-1	2140	Wed	825 1 17077 981 95 15125 91745 29699 ... 97369 78250 99423 000 000	USB	(AB)
5111	E07a	22-1	0530	Thu	189 1 17077 981 95 15125 91745 29699 97369 78250 99423 000 000	USB	(AB)
5811	E07a	22-1	0550	Thu	189 1 17077 981 95 15125 91745 29699 97369 78250 99423 000 000	USB	(AB)
6911	E07a	22-1	0610	Thu	189 1 17077 981 95 15125 91745 29699 97369 78250 99423 000 000	USB	(AB)
7632	E07a	23-1	1610	Fri	688 688 688 000	USB	(GHn)
7632	E07a	30-1	1610	Fri	688 688 688 000	USB	(AB/GHn)
6832	E07a	30-1	1630	Fri	688 688 688 000	USB	(AB)
11123	E07a	31-1	0900	Sat	114 114 114 000	USB	(AB)
12123	E07a	31-1	0920	Sat	114 114 114 000	USB	(AB)
9443	E11	3-1	1705	Sat	392/00	USB	(AB)
10213	E11	5-1	0745	Mon	262/00	USB	(AB)
10125	E11	5-1	0820	Mon	438/00	USB	(AB)
9446	E11	5-1	0830	Mon	649/00	USB	(AB)
18030	E11	6-1	1300	Tue	133/00	USB	(AB)
10429	E11	7-1	0805	Wed	311/00	USB	(AB)
18030	E11	7-1	1300	Wed	133/00	USB	(AB)
4441	E11	7-1	1445	Wed	287/00	USB	(AB)
9443	E11	7-1	1705	Wed	392/00	USB	(GHn)
10125	E11	8-1	0820	Thu	438/00	USB	(AB)
9950	E11	8-1	0930	Thu	270/00	USB	(AB)

Freq.	Code	Date	UTC	Day	Remarks	Mode	Contributor
5409	E11	8-1	1530	Thu	262/00	USB	(AB/GHn)
10213	E11	12-1	0745	Mon	262/00	USB	(AB)
9446	E11	12-1	0830	Mon	649/00	USB	(AB)
9446	E11	12-1	0900	Mon	534/00	USB	(AB)
16112	E11	13-1	0745	Tue	335/00	USB	(AB)
12153	E11	13-1	1045	Tue	576/00	USB	(AB)
8091	E11	13-1	1045	Tue	469/00	USB	(AB)
10429	E11	14-1	0805	Wed	311/00	USB	(AB)
8091	E11	14-1	1045	Wed	469/00	USB	(AB)
15632	E11	14-1	1155	Wed	718/00	USB	(AB)
15632	E11	15-1	1155	Thu	718/00	USB	(AB)
5409	E11	15-1	1530	Thu	262/00	USB	(MPJ)
9446	E11	16-1	0830	Fri	649/00	USB	(AB)
6304	E11	16-1	2000	Fri	576/00	USB	(AB)
6304	E11	16-1	2000	Fri	576/00	USB	(GHn)
10125	E11	19-1	0820	Mon	438/00	USB	(DM-HOL)
9446	E11	19-1	0900	Mon	534/00	USB	(BCI)
7840	E11	20-1	0645	Tue	517/00	USB	(AB)
10800	E11	20-1	0710	Tue	633/00	USB	(AB)
16112	E11	20-1	0745	Tue	335/00	USB	(AB)
18030	E11	20-1	1300	Tue	133/00	USB	(AB)
9446	E11	21-1	0900	Wed	534/00	USB	(AB)
8091	E11	21-1	1045	Wed	469/00	USB	(AB)
15632	E11	21-1	1155	Wed	718/00	USB	(AB)
18030	E11	21-1	1300	Wed	133/00	USB	(AB)
9443	E11	21-1	1705	Wed	392/00	USB	(AB)
5779	E11	22-1	0315	Thu	253/00	USB	(AB)
16112	E11	22-1	0745	Thu	335/00	USB	(AB)
10125	E11	22-1	0820	Thu	438/00	USB	(AB)
9950	E11	22-1	0930	Thu	270/00	USB	(AB)
15632	E11	22-1	1155	Thu	718/00	USB	(AB)
10213	E11	25-1	0745	Sun	262/00	USB	(AB)
10125	E11	25-1	0820	Sun	438/00	USB	(AB)
9446	E11	25-1	0830	Sun	649/00	USB	(AB)
15632	E11	26-1	1540	Mon	228/00	USB	(GHn)
16112	E11	27-1	0745	Tue	335/00	USB	(AB)
8091	E11	28-1	1045	Wed	469/00	USB	(AB)
15632	E11	28-1	1155	Wed	718/00	USB	(AB)
16112	E11	29-1	0745	Thu	335/00	USB	(AB)
9950	E11	29-1	0930	Thu	270/00	USB	(AB)
15632	E11	29-1	1155	Thu	718/00	USB	(AB)
5409	E11	29-1	1530	Thu	262/00	USB	(MPJ)
9446	E11	30-1	0830	Fri	649/00	USB	(AB)
10213	E11a	3-1	1810	Sat	988/10 Attention 82069 89766 76998 55246 49980 40712 57538 48732 57545 59583 Att, rpt msg, out	USB	(AB)
15632	E11a	5-1	1540	Mon	227/34 Attention 26540 35862 03384 ... 31922 21952 60732 Attention, rpt msg, out	USB	(AB)
8091	E11a	7-1	1045	Wed	463/36 Attention 91118 93880 52191 ... 66180 45800 95723 Attention, rpt msg, out	USB	(AB)
15632	E11a	7-1	1155	Wed	712/32 Attention 89140 94686 75282 ... 14788 45828 85640 Attention, rpt msg, out	USB	(AB)
16112	E11a	8-1	0745	Thu	331/36 Attention 18727 57965 13877 ... 67923 53903 35718 Attention, rpt msg, out	USB	(AB)
14410	E11a	9-1	1110	Fri	958/40 Attention 83567 37421 43197 ... 00743 99577 83085 Attention, rpt msg, out	USB	(AB)
10690	E11a	10-1	1400	Sat	981/10 Attention 28440 79017 53578 09702 15933 45723 04841 44288 73373 48460 Att, rpt msg, out	USB	(GHn)
10125	E11a	12-1	0820	Mon	430/30 Attention 40128 91024 71737 ... 78897 18033 43547 Attention, rpt msg, out	USB	(AB)
14410	E11a	12-1	1110	Mon	954/32 95578	USB	(HFD)
18030	E11a	13-1	1300	Tue	133/37 Attention 91083 71140 35510 ... 41339 68608 66000 Attention, rpt msg, out	USB	(AB)
10690	E11a	13-1	1400	Tue	984/10 Attention 29569 05305 63638 44410 53234 98223 20576 79562 81140 74472 Att, rpt msg, out	USB	(AB)
10125	E11a	15-1	0820	Thu	430/30 Attention 40128 91024 71737 ... 78897 18033 43547 Attention, rpt msg, out	USB	(AB)
9950	E11a	15-1	0930	Thu	278/34 Attention 24561 39801 23784 ... 55146 18302 95003 Attention, rpt msg, out	USB	(AB)
14410	E11a	16-1	1110	Fri	950/31 Attention 92842 22267 86774 ... 62273 61988 57190 Attention, rpt msg, out	USB	(AB)
14410	E11a	16-1	1110	Fri	950/31 92842	USB	(HFD)
6923	E11a	16-1	1710	Fri	957/21 Attention 50729 08982 55407 ... 84110 83588 11153 Attention, rpt msg, out	USB	(AB)

Freq.	Code	Date	UTC	Day	Remarks	Mode	Contributor
10213	E11a	17-1	1810	Sat	988/10 Attention 28350 35060 14715 45306 82590 72410 65798 77465 12754 05938 Att, rpt msg, out	USB	(AB)
9446	E11a	19-1	0830	Mon	649/38 Attention 48865 43431 37065 ... 52860 05579 67618 Attention, rpt msg, out	USB	(AB/DM-HOL)
12153	E11a	20-1	1045	Tue	576/32 Attention 93289 75176 13744 ... 44208 38130 91081 Attention, rpt msg, out	USB	(AB)
10213	E11a	20-1	1810	Tue	983/10 Attention 43382 09293 28738 25765 24520 81520 06158 85103 81348 84176 Att, rpt msg, out	USB	(AB)
6304	E11a	23-1	2000	Fri	576/32 Attention 93289 75176 13744 ... 44208 38130 91081 Attention, rpt msg, out	USB	(GHn)
10690	E11a	24-1	1400	Sat	981/10 Attention 95071 86579 59921 80871 71770 95888 62029 36030 58494 88922 Att, rpt msg, out	USB	(AB/AAI)
4441	E11a	24-1	1445	Sat	286/31 Attention 36154 70883 50413 ... 93175 45289 30962 Attention, rpt msg, out	USB	(AB)
9446	E11a	25-1	0900	Sun	537/38 Attention 17282 35574 48754 ... 20313 18002 58739 Attention, rpt msg, out	USB	(AB)
13455	E11a	27-1	0530	Tue	980/10 Attention 89279 70007 72469 41435 34614 82094 45012 41578 60515 96808 Att, rpt msg, out	USB	(AB)
7840	E11a	27-1	0645	Tue	510/35 Attention 85983 62463 13406 ... 37032 66321 31429 Attention, rpt msg, out	USB	(AB)
11170	E17z	1-1	0800	Thu	674 932 5 12532 06674 38829 10996 79419 932 5 00000	USB	(AB)
9820	E17z	1-1	0810	Thu	674 932 5 12532 06674 38829 10996 79419 932 5 00000	USB	(AB)
11170	E17z	8-1	0800	Thu	674 932 5 12532 06674 38829 10996 79419 932 5 00000	USB	(AB)
9820	E17z	8-1	0810	Thu	674 932 5 12532 06674 38829 10996 79419 932 5 00000	USB	(AB)
11170	E17z	15-1	0800	Thu	674 915 8 83208 37829 47458 42857 39674 32387 44142 33104 915 8 00000	USB	(AB)
9820	E17z	15-1	0810	Thu	674 915 8 83208 37829 47458 42857 39674 32387 44142 33104 915 8 00000	USB	(AB)
11170	E17z	22-1	0800	Thu	674 915 8 83208 37829 47458 42867 39674 32387 44142 33104 915 8 00000	USB	(AB)
9820	E17z	22-1	0810	Thu	674 915 8 83208 37829 47458 42867 39674 32387 44142 33104 915 8 00000	USB	(AB)
11170	E17z	29-1	0800	Thu	674 674 674 00000	USB	(AB)
9820	E17z	29-1	0810	Thu	674 674 674 00000	USB	(AB)
9450	E25a	1-1	1222	Thu	i.p. "830 6 (R) message, message message" then off	AM	(Danix)
10220	EGY	3-1	1809	Sat	MFA Cairo signing off	SITOR-A 100/170	(AB)
18034.7	EGY	7-1	1425	Wed	MFA Cairo clg embassy Muscat TVXY	SITOR-A 100/170	(AAI)
11112.7	EGY	7-1	1514	Wed	MFA Cairo clg embassy Muscat	SITOR-A 100/170	(BCI)
18034.7	EGY	8-1	0854	Thu	Egyptian embassy Bamako clg MFA Cairo	SITOR-A 100/170	(BCI)
18036.7	EGY	8-1	0856	Thu	MFA Cairo clg embassy Islamabad	SITOR-A 100/170	(BCI)
19066	EGY	8-1	1550	Thu	MFA Cairo	Codan-16	(BCI)
19067.7	EGY	8-1	1614	Thu	MFA Cairo	SITOR-A 100/170	(BCI)
16034.7	EGY	11-1	1325	Sun	MFA Cairo clg TVQX followed by Codan-9001 data	SITOR-A 100/170	(AAI)
16011.5	EGY	20-1	1258	Tue	MFA Cairo clg embassy Manama (TVXS) followed by CODAN-9001 data	SITOR-A 100/170	(AAI)
16159.8	EGY	21-1	1240	Wed	MFA Cairo clg embassy New Delhi (OOVC)	SITOR-A 100/170	(AAI)
18189.7	EGY	27-1	1629	Tue	Egyptian embassy Bamako tfc to MFA Cairo headed ?jg: ykjjzkwI?	SITOR-A 100/170	(MCO)
25016.5	EGY	31-1	1335	Sat	MFA Cairo msg to RCVB, embassy Washington	Codan-16	(AAI)
4519	G06	8-1	1830	Thu	271 394 20 06132 75514 79681 ... 49870 63962 04884 394 20 00000	USB	(AB)
4792	G06	9-1	1930	Fri	436 721 20 37839 35787 98573 ... 62491 75924 24594 721 20 00000	AM	(GHn)
3728	G06	12-1	1700	Mon	248 248 248 3 00000	USB	(AB)
3728	G06	12-1	1700	Mon	248 0	USB	(HFD)
4484	G06	12-1	1800	Mon	248 248 248 3 00000	USB	(AB)
4484	G06	12-1	1800	Mon	248 0	USB	(HFD)
4519	G06	22-1	1830	Thu	271 394 20 06132 75514 79681 ... 49870 63962 04884 394 20 00000	USB	(AB)
4792	G06	23-1	1930	Fri	436 721 20 37839 35787 98273 ... 62491 75924 25594 721 20 00000	AM	(GHn)
11435	HM01	1-1	1603	Thu	66455 44451 10113 63253 22126 03345	AM/RDFT	(DSch)
11530	HM01	1-1	1700	Thu	66455 44451 10113 63253 22126 03345	AM/RDFT	(DSch)
11635	HM01	1-1	1834	Thu	66455 44451 10113 63253 22126 03345	AM/RDFT	(DSch)
17480	HM01	1-1	2200	Thu	44451 10113 63253 22126 03345 66455	AM/RDFT	(Dan)
9065	HM01	2-1	0800	Fri	66455 44451 10113 63253 22126 03345	AM/RDFT	(AB)
11435	HM01	2-1	1604	Fri	66456 44451 10114 63254 22127 03346	AM/RDFT	(DSch)
11530	HM01	2-1	1700	Fri	66456 44451 10114 63254 22127 03346	AM/RDFT	(DSch)
11635	HM01	2-1	1833	Fri	66456 44451 10114 63254 22127 03346	AM/RDFT	(DSch)
11635	HM01	2-1	2104	Fri	66456 44451 10114 63254 22127 03346	AM/RDFT	(DSch)
10715	HM01	2-1	2200	Fri	44451 10114 63254 22127 03346 66456	AM/RDFT	(Dan)
11435	HM01	3-1	1606	Sat	Starts with RDFT then 03347 031605 then 66457 44452 10115 63255 22128 03347	AM/RDFT	(DSch)
11530	HM01	3-1	1700	Sat	66457 44452 10115 63255 22128 03347	AM/RDFT	(AB)
11530	HM01	3-1	1700	Sat	66457 44452 10115 63255 22128 03347	AM/RDFT	(DSch)
11635	HM01	3-1	1802	Sat	66457 44452 10115 63255 22128 03347	AM/RDFT	(DSch)
16180	HM01	3-1	2000	Sat	Transmitter on and off till 2012 UTC	Carrier	(DSch)
16180	HM01	3-1	2102	Sat	66457 44452 10115 63255 22128 03347	AM/RDFT	(DSch)
17480	HM01	3-1	2200	Sat	66457 44452 10115 63255 22128 03347	AM/RDFT	(DSch)

Freq.	Code	Date	UTC	Day	Remarks	Mode	Contributor
10345	HM01	4-1	0600	Sun	66457 44452 10115 63255 22128 03347	AM/RDFT	(AB)
9330	HM01	4-1	0700	Sun	66457 44452 10115 63255 22128 03347	AM/RDFT	(AB)
11435	HM01	4-1	1600	Sun	13541 44453 10116 63256 44631 03348	AM/RDFT	(AB)
11435	HM01	4-1	1605	Sun	13541 44453 10116 63256 44461 03348	AM/RDFT	(DSch)
11530	HM01	4-1	1700	Sun	13541 44453 10116 63256 44631 03348	AM/RDFT	(AB)
11530	HM01	4-1	1731	Sun	13541 44453 10116 63256 44461 03348	AM/RDFT	(DSch)
11635	HM01	4-1	1800	Sun	13541 44453 10116 63256 44461 03348	AM/RDFT	(DSch)
11635	HM01	4-1	1800	Sun	13541 44453 10116 63256 44631 03348	AM/RDFT	(AB)
11635	HM01	4-1	2130	Sun	13541 44453 10116 63256 44461 03348	AM/RDFT	(DSch)
10715	HM01	4-1	2200	Sun	44453 10116 63256 44631 03348 13541	AM/RDFT	(Dan)
5855	HM01	5-1	1000	Mon	13541 44453 10116 63256 44631 03348 //9155 kHz	AM/RDFT	(AB)
9155	HM01	5-1	1000	Mon	13541 44453 10116 63256 44631 03348 //5855 kHz	AM/RDFT	(AB)
10715	HM01	5-1	2200	Mon	44454 10117 63257 44631 21171 13541	AM/RDFT	(Dan)
17480	HM01	6-1	2200	Tue	44455 10118 63258 44632 21171 13542	AM/RDFT	(Dan)
11435	HM01	7-1	1605	Wed	13543 44456 10119 63259 44633 21172	AM/RDFT	(DSch)
11530	HM01	7-1	1718	Wed	13543 44456 10119 63259 44633 21172	AM/RDFT	(DSch)
11635	HM01	7-1	1835	Wed	13543 44456 10119 63259 44633 21172	AM/RDFT	(DSch)
11635	HM01	7-1	2130	Wed	13543 44456 10119 63259 44633 21172	AM/RDFT	(DSch)
10715	HM01	7-1	2200	Wed	44456 10119 63259 44633 21272 13543	AM/RDFT	(Dan)
17480	HM01	7-1	2200	Wed	13542 44455 10118 63258 44632 21171	AM/RDFT	(DSch)
11435	HM01	8-1	1609	Thu	13544 44457 32051 48031 44634 21173	AM/RDFT	(DSch)
11530	HM01	8-1	1702	Thu	13544 44457 32051 48031 44634 21173	AM/RDFT	(DSch)
11635	HM01	8-1	1809	Thu	13544 44457 32051 48031 44634 21173	AM/RDFT	(DSch)
16180	HM01	8-1	2109	Thu	13544 44457 32051 48031 44634 21173	AM/RDFT	(DSch)
17480	HM01	8-1	2157	Thu	13544 44457 32051 48031 44634 21173	AM/RDFT	(DSch)
17480	HM01	8-1	2230	Thu	44457 32051 48031 44634 21173 13544	AM/RDFT	(Dan)
11530	HM01	9-1	1700	Fri	13545 44458 32051 48031 44635 21174	AM/RDFT	(AB/DSch)
11635	HM01	9-1	1830	Fri	13545 44458 32051 48031 44635 21174 13545 etc 091830	AM/RDFT	(DSch)
11635	HM01	9-1	2100	Fri	13545 44458 32051 48031 44635 21174 13545 etc 092100	AM/RDFT	(DSch)
10715	HM01	9-1	2200	Fri	44458 32051 48031 44635 21174 13545	AM/RDFT	(Dan)
10715	HM01	9-1	2209	Fri	13545 44458 32051 48031 44635 21174 13545 etc 092209	AM/RDFT	(DSch)
11435	HM01	10-1	1608	Sat	13546 85201 32052 48032 44636 21175	AM/RDFT	(DSch)
11530	HM01	10-1	1730	Sat	13546 85201 32052 48032 44636 21175	AM/RDFT	(DSch)
11635	HM01	10-1	1833	Sat	13546 85201 32052 48032 44636 21175	AM/RDFT	(DSch)
16180	HM01	10-1	2100	Sat	13546 85201 32052 48032 44636 21175	AM/RDFT	(DSch)
17480	HM01	10-1	2204	Sat	13546 85201 32052 48032 44636 21175	AM/RDFT	(DSch)
9240	HM01	11-1	0900	Sun	13546 85201 32052 48032 44636 21175	AM/RDFT	(AB)
9155	HM01	11-1	1000	Sun	13546 85201 32052 48032 44636 21175. 3 mins late	AM/RDFT	(AB)
11435	HM01	11-1	1603	Sun	Tuning xmtr then off. Back on 1604z. At 1615z: 13547 85201 32053 48033 44637 21176	AM/RDFT	(DSch)
11530	HM01	11-1	1656	Sun	13547 85201 32053 48033 44637 21176	AM/RDFT	(DSch)
11635	HM01	11-1	1801	Sun	13547 85201 32053 48033 44637 21176	AM/RDFT	(DSch)
11635	HM01	11-1	2107	Sun	13547 85201 32053 48033 44637 21176	AM/RDFT	(DSch)
10715	HM01	11-1	2200	Sun	85201 32053 48033 44637 21176 13547	AM/RDFT	(Dan)
10715	HM01	11-1	2200	Sun	13547 85201 32053 48033 44637 21176	AM/RDFT	(DSch)
9155	HM01	12-1	1003	Mon	13547 85201 32053 48033 44637 21176	AM/RDFT	(EW)
11435	HM01	12-1	1600	Mon	61661 85202 32054 48034 44638 21177	AM/RDFT	(DSch)
11435	HM01	12-1	1700	Mon	61661 85202 32054 48034 44638 21177. Should be on 11530 kHz	AM/RDFT	(DSch)
11530	HM01	12-1	1707	Mon	61661 85202 32054 48034 44638 21177. Shifts to this freq from 11435 kHz	AM/RDFT	(DSch)
11635	HM01	12-1	1840	Mon	61661 85202 32054 48034 44638 21177	AM/RDFT	(DSch)
11635	HM01	12-1	2103	Mon	61661 85202 32054 48034 44638 21177	AM/RDFT	(DSch)
10715	HM01	12-1	2200	Mon	85202 32054 48034 44638 21177 61661	AM/RDFT	(Dan)
11530	HM01	13-1	1700	Tue	61661 8520-3 32055 48035 44639 24671	AM/RDFT	(DSch)
11635	HM01	13-1	1848	Tue	61661 8520-3 32055 48035 44639 24671	AM/RDFT	(DSch)
16180	HM01	13-1	2100	Tue	85203 32055 48035 44639 24671 61661	AM/RDFT	(Dan)
16180	HM01	13-1	2111	Tue	61661 8520-3 32055 48035 44639 24671	AM/RDFT	(DSch)
11530	HM01	14-1	1706	Wed	61662 85204 32056 48036 03571 24671	AM/RDFT	(DSch)
11635	HM01	14-1	1759	Wed	61662 85204 32056 48036 03571 24671	AM/RDFT	(DSch)
11635	HM01	14-1	2100	Wed	61662 85204 32056 48036 03571 24671	AM/RDFT	(DSch)
10715	HM01	14-1	2200	Wed	61662 85204 32056 48036 03571 24671	AM/RDFT	(DSch)
10715	HM01	14-1	2230	Wed	85204 32056 48036 03571 24671 61662	AM/RDFT	(Dan)
11435	HM01	15-1	1606	Thu	61663 85205 32057 48037 03571 24672	AM/RDFT	(DSch)

Freq.	Code	Date	UTC	Day	Remarks	Mode	Contributor
11530	HM01	15-1	1700	Thu	61663 85205 32057 48037 03571 24672	AM/RDFT	(DSch)
11635	HM01	15-1	1800	Thu	61663 85205 32057 48037 03571 24672	AM/RDFT	(DSch)
16180	HM01	15-1	2100	Thu	61663 85205 32057 48037 03571 24672	AM/RDFT	(DSch)
17480	HM01	15-1	2207	Thu	61663 85205 32057 48037 03571 24672	AM/RDFT	(DSch)
17480	HM01	15-1	2230	Thu	85205 32057 48037 03571 24672 61663	AM/RDFT	(Dan)
11435	HM01	16-1	1603	Fri	Radio Habana until 1604z, then 61664 85206 32058 24151 03572 24673	AM/RDFT	(DSch)
11530	HM01	16-1	1700	Fri	61664 85206 32058 24151 03572 24673	AM/RDFT	(DSch)
11635	HM01	16-1	1848	Fri	61664 85206 32058 24151 03572 24673	AM/RDFT	(DSch)
11635	HM01	16-1	2103	Fri	61664 85206 32058 24151 03572 24673	AM/RDFT	(DSch)
10715	HM01	16-1	2200	Fri	61664 85206 32058 24151 03572 24673	AM/RDFT	(DSch)
10715	HM01	16-1	2230	Fri	85206 32058 24151 03572 24673 61664	AM/RDFT	(Dan)
11435	HM01	17-1	1600	Sat	61664 85206 32058 24151 03572 24673. Stops and sends 61665 85207 32059 24151 03573 24674	AM/RDFT	(DSch)
11530	HM01	17-1	1700	Sat	61665 85207 32059 24151 03573 24674	AM/RDFT	(DSch)
11635	HM01	17-1	1805	Sat	61665 85207 32059 24151 03573 24674	AM/RDFT	(DSch)
17480	HM01	17-1	2155	Sat	61665 85207 32059 24151 03573 24674	AM/RDFT	(DSch)
11530	HM01	18-1	1709	Sun	61666 85208 56431 24152 03574 24675	AM/RDFT	(DSch)
11635	HM01	18-1	1829	Sun	61666 85208 56431 24152 03574 24675	AM/RDFT	(DSch)
11635	HM01	18-1	2102	Sun	61666 85208 56431 24152 03574 24675	AM/RDFT	(DSch)
10715	HM01	18-1	2200	Sun	61666 85208 56431 24152 03574 24675	AM/RDFT	(DSch)
10715	HM01	18-1	2200	Sun	85208 56431 24152 03574 24675 61666	AM/RDFT	(Dan)
10345	HM01	19-1	0629	Mon	61666 85208 56431 24152 03574 24675	AM/RDFT	(KC2TTK)
11435	HM01	19-1	1606	Mon	Radio Habana briefly, then 61667 85209 56431 24153 03575 24676	AM/RDFT	(DSch)
11530	HM01	19-1	1714	Mon	61667 85209 56431 24153 03575 24676	AM/RDFT	(DSch)
11635	HM01	19-1	1803	Mon	61667 85209 56431 24153 03575 24676	AM/RDFT	(DSch)
11635	HM01	19-1	2104	Mon	61667 85209 56431 24153 03575 24676	AM/RDFT	(DSch)
10715	HM01	19-1	2200	Mon	79830 56431 24153 03575 24676 61667	AM/RDFT	(Dan)
10715	HM01	19-1	2230	Mon	61667 79830 56431 24153 03575 24676	AM/RDFT	(DSch)
11435	HM01	20-1	1609	Tue	61668 79831 56432 24154 03576 24677	AM/RDFT	(DSch)
11530	HM01	20-1	1716	Tue	61668 79831 56432 24154 03576 24677	AM/RDFT	(DSch)
11635	HM01	20-1	1844	Tue	61668 79831 56432 24154 03576 24677	AM/RDFT	(DSch)
16180	HM01	20-1	2130	Tue	79831 56432 24154 03576 24677 61668	AM/RDFT	(Dan)
10715	HM01	21-1	2200	Wed	79832 56433 24155 03577 24678 61669	AM/RDFT	(Dan)
11435	HM01	22-1	1600	Thu	78011 79833 56434 24156 03578 78721	AM/RDFT	(DSch)
11530	HM01	22-1	1700	Thu	78011 79833 56434 24156 03578 78721	AM/RDFT	(DSch)
11635	HM01	22-1	1817	Thu	78011 79833 56434 24156 03578 78721	AM/RDFT	(DSch)
16180	HM01	22-1	2100	Thu	78011 79833 56434 24156 03578 78721	AM/RDFT	(DSch)
17480	HM01	22-1	2200	Thu	79833 56434 24156 03578 78721 78011	AM/RDFT	(Dan)
17480	HM01	22-1	2205	Thu	78011 79833 56434 24156 03578 78721	AM/RDFT	(DSch)
11530	HM01	23-1	1709	Fri	78011 79834 56435 24157 27731 78721	AM/RDFT	(DSch)
11635	HM01	23-1	1802	Fri	78011 79834 56435 24157 27731 78721	AM/RDFT	(DSch)
11635	HM01	23-1	2114	Fri	78011 79834 56435 24157 27731 78721	AM/RDFT	(DSch)
11635	HM01	23-1	2130	Fri	79834 56435 24157 27732 78721 78011	AM/RDFT	(Dan)
10715	HM01	23-1	2204	Fri	78011 79834 56435 24157 27731 78721	AM/RDFT	(DSch)
11435	HM01	24-1	1600	Sat	78012 79835 56436 50071 27731 78722	AM/RDFT	(DSch)
11530	HM01	24-1	1701	Sat	78012 79835 56436 50071 27731 78722	AM/RDFT	(DSch)
11635	HM01	24-1	1801	Sat	78012 79835 56436 50071 27731 78722	AM/RDFT	(DSch)
16180	HM01	24-1	2102	Sat	78012 79835 56436 50071 27731 78722	AM/RDFT	(DSch)
17480	HM01	24-1	2204	Sat	78012 79835 56436 50071 27731 78722	AM/RDFT	(DSch)
10345	HM01	25-1	0630	Sun	78013 79836 56437 50071 27732 78723	AM/RDFT	(AB)
10345	HM01	25-1	0700	Sun	78013 79836 56437 50071 27732 78723 should be on 9330 kHz	AM/RDFT	(AB)
9330	HM01	25-1	0703	Sun	78013 79836 56437 50071 27732 78723 late start, comes from 10345 kHz	AM/RDFT	(AB)
9065	HM01	25-1	0800	Sun	78013 79836 56437 50071 27732 78723 late start, comes from 10345 kHz	AM/RDFT	(AB)
9240	HM01	25-1	0900	Sun	78012 79835 56436 50071 27731 78722	AM/RDFT	(AB)
11435	HM01	25-1	1605	Sun	78013 79836 56437 50071 27732 78723	AM/RDFT	(DSch)
11530	HM01	25-1	1700	Sun	78013 79836 56437 50071 27732 78723	AM/RDFT	(DSch)
11635	HM01	25-1	1812	Sun	78013 79836 56437 50071 27732 78723	AM/RDFT	(DSch)
11635	HM01	25-1	2103	Sun	78013 79836 56437 50071 27732 78723	AM/RDFT	(DSch)
10715	HM01	25-1	2200	Sun	79836 56437 50071 27732 78723 78013	AM/RDFT	(Dan)
10715	HM01	25-1	2202	Sun	78013 79836 56437 50071 27732 78723	AM/RDFT	(DSch)
11435	HM01	26-1	1601	Mon	78014 79837 56438 50072 27733 78724	AM/RDFT	(DSch)
11530	HM01	26-1	1659	Mon	78014 79837 56438 50072 27733 78724	AM/RDFT	(DSch)

Freq.	Code	Date	UTC	Day	Remarks	Mode	Contributor
11635	HM01	26-1	1829	Mon	78014 79837 56438 50072 27733 78724	AM/RDFT	(DSch)
11635	HM01	26-1	2102	Mon	78014 79837 56438 50072 27733 78724	AM/RDFT	(DSch)
11635	HM01	26-1	2115	Mon	79837 56438 50072 27733 78724 78014	AM/RDFT	(Dan)
10715	HM01	26-1	2229	Mon	78014 79837 56438 50072 27733 78724	AM/RDFT	(DSch)
11435	HM01	27-1	1607	Tue	78015 79838 82871 50073 27734 788725	AM/RDFT	(DSch)
11530	HM01	27-1	1700	Tue	78015 79838 82871 50073 27734 788725	AM/RDFT	(DSch)
11735	HM01	27-1	1814	Tue	78015 79838 82871 50073 27734 788725	AM/RDFT	(DSch)
16180	HM01	27-1	2100	Tue	79838 82871 50073 27734 78725 78015	AM/RDFT	(Dan)
16180	HM01	27-1	2102	Tue	78015 79838 82871 50073 27734 788725	AM/RDFT	(DSch)
11530	HM01	28-1	1733	Wed	78016 79839 82871 50074 27735 78726	AM/RDFT	(DSch)
11635	HM01	28-1	1800	Wed	78016 79839 82871 50074 27735 78726 78016 79839 82871 50074 27735 78726 at 281800	AM/RDFT	(DSch)
11635	HM01	28-1	2105	Wed	78016 79839 82871 50074 27735 78726 78016 etc 282105	AM/RDFT	(DSch)
16180	HM01	29-1	2100	Thu	87641 82872 50075 27736 78727 78017	AM/RDFT	(Dan)
9155	HM01	30-1	1030	Fri	78017 87641 82872 50075 27736 78727	AM/RDFT	(DSch)
5855	HM01	30-1	1030	Fri	78017 87641 82872 50075 27736 78727	AM/RDFT	(DSch)
11435	HM01	30-1	1613	Fri	41821 87641 82873 50076 27737 78728	AM/RDFT	(DSch)
11635	HM01	30-1	1839	Fri	41821 87641 82873 50076 27737 78728	AM/RDFT	(DSch)
11635	HM01	30-1	2107	Fri	41821 87641 82873 50076 27737 78728. Should be on 16180 kHz	AM/RDFT	(DSch)
10715	HM01	30-1	2200	Fri	87641 82873 50076 77520 78728 41821	AM/RDFT	(Dan)
10715	HM01	30-1	2205	Fri	41821 87641 82873 50076 27737 78728	AM/RDFT	(DSch)
8135	HM01	30-1	2302	Fri	41821 87641 82873 50076 27737 78728. Should be M08a	AM/RDFT	(DSch)
11530	HM01	31-1	1705	Sat	41821 87642 82874 50077 77521 78729	AM/RDFT	(DSch)
11635	HM01	31-1	1813	Sat	41821 87642 82874 50077 77521 78729	AM/RDFT	(DSch)
16180	HM01	31-1	2104	Sat	41821 87642 82874 50077 77521 78729	AM/RDFT	(DSch)
17480	HM01	31-1	2207	Sat	41821 87642 82874 50077 77521 78729	AM/RDFT	(DSch)
5465	M01	4-1	0700	Sun	197 715 30 = 76960 22923 51790 38399 62125 90940 ...	CW	(AB)
5320	M01	8-1	1800	Thu	197 115 30 = = 74746 19753 16460 ... 51775 95727 361t4 = = 115 30 000	CW	(AB)
3160	M01	8-1	2040	Thu	382 734 30 = = 11815 ... = = 734 30 000	CW	(AB)
3160	M01	15-1	2040	Thu	382 ...	CW	(AB)
2435	M01b	26-1	1910	Mon	853 734 30 = 11825 40362 12892 33507 15515 ... 94197 22455 94861 49610 98467 = = 734 30 000	MCW	(MPJ)
9067	M01c	6-1	1301	Tue	111 638 00 333 97 333 63397 63397 333 63397 63397 333 63397 63397 = 333 628 07 628 07	CW	(AAI/F5JBR)
8111	M01c	7-1	0632	Wed	536 536 536 62965 62965 536 536 536 62965 62965 ... 00000	CW	(ASF)
13911	M03	2-1	1320	Fri	VVV at 1415z. 877/38 = = 33542 26316 42233 ...	CW	(AB)
13911	M03	2-1	1320	Fri	877/38 = = 33542 26316 42233 ... 35209 12829 85649 = = 000	CW	(AB)
13911	M03	4-1	1420	Sun	877/38 = = 33542 26316 42233 ... 35209 12829 85649 = = 000	CW	(AB)
13911	M03	9-1	1420	Fri	879/00	CW	(HFD)
13911	M03	9-1	1420	Fri	579/00 = = 000	CW	(AB)
5358	M03	10-1	1540	Sat	798/00 = = 000	CW	(AB)
4505	M03	12-1	1320	Mon	VVV VVV VVV at 1317z. 543/00 = = 000	CW	(AB)
5358	M03	13-1	1535	Tue	798/00 = = 000	CW	(AB)
13911	M03	25-1	1420	Sun	879/00 = = 000	CW	(AB)
5358	M03a	20-1	1535	Tue	796/38 = 03297 65509 17730 ... 36013 82829 44026 = 796/38 rpt msg = 000	CW	(AB)
8096	M08a	1-1	1413	Thu	Cuban cut nbrs	CW	(DSch)
7554	M08a	1-1	2203	Thu	Cuban cut nbrs	CW	(DSch)
8096	M08a	2-1	1406	Fri	Cuban cut nbrs	CW	(DSch)
7554	M08a	2-1	2008	Fri	Cuban cut nbrs	CW	(DSch)
8135	M08a	2-1	2308	Fri	Cuban cut nbrs	CW	(DSch)
8096	M08a	4-1	1406	Sun	Cuban cut nbrs	CW	(DSch)
7554	M08a	4-1	1958	Sun	Cuban cut nbrs: AGNRN NNWTA DWTNN	CW	(DSch)
8096	M08a	5-1	1359	Mon	Cuban cut nbrs: TWRTN AGADN NAUWA	CW	(DSch)
8096	M08a	7-1	1417	Wed	No callup, into Cuban cut nbrs	CW	(DSch)
7554	M08a	7-1	2002	Wed	Cuban cut nbrs	CW	(DSch)
8009	M08a	7-1	2311	Wed	Cuban cut nbrs	CW	(DSch)
8096	M08a	8-1	1418	Thu	No callup, went right into Cuban cut nbrs	CW	(DSch)
7554	M08a	8-1	2000	Thu	Cuban cut nbrs. Best in LSB	CW	(DSch)
8135	M08a	8-1	2309	Thu	Sounded for a while like they were loading up two xmtrs on the freq. Finally into 5LGs	CW	(DSch)
7554	M08a	9-1	2000	Fri	Cuban cut nbrs: NAGRN DNWNT WWTNA	CW	(DSch)
7554	M08a	10-1	2003	Sat	Cuban cut nbrs: NNWTA DWTNN AGNFRN	CW	(DSch)
7554	M08a	11-1	2009	Sun	Cuban cut nbrs	CW	(DSch)

Freq.	Code	Date	UTC	Day	Remarks	Mode	Contributor
8135	M08a	11-1	2300	Sun	Cuban cut nbrs: NNWTA DWTNN AGRRN	CW	(DSch)
8096	M08a	12-1	1359	Mon	Cuban cut nbrs: IUGTA GINNN TGAWWA	CW	(DSch)
8096	M08a	12-1	1420	Mon	i.p. TANUD UMDUT DRGWN WRGT AANG ... ARNRW ARIRN RNGAA RNGAA RIUGG GIRAD	CW	(07c)
7554	M08a	12-1	2000	Mon	Cuban cut nbrs in	CW	(DSch)
8096	M08a	13-1	1401	Tue	Cuban cut nbrs: NDTNA DRDWN UTRIA	CW	(DSch)
7554	M08a	13-1	2005	Tue	Cuban cut nbrs	CW	(DSch)
7554	M08a	14-1	2003	Wed	Cuban cut nbrs	CW	(DSch)
8009	M08a	14-1	2300	Wed	Cuban cut nbrs	CW	(DSch)
8096	M08a	15-1	1400	Thu	Cuban cut nbrs	CW	(DSch)
7554	M08a	15-1	2010	Thu	Cuban cut nbrs	CW	(DSch)
8096	M08a	16-1	1400	Fri	Cuban cut nbrs: GUADA TIWWN AAGGN	CW	(DSch)
8135	M08a	16-1	2300	Fri	Cuban cut nbrs	CW	(DSch)
8096	M08a	17-1	1409	Sat	Cuban cut nbrs: AGNRN NNWTA DWTNN	CW	(DSch)
7554	M08a	17-1	2101	Sat	Cuban cut nbrs	CW	(DSch)
8009	M08a	17-1	2300	Sat	Cuban cut nbrs. Should be on 8135 kHz	CW	(DSch)
8096	M08a	19-1	1413	Mon	Cuban cut nbrs	CW	(DSch)
7554	M08a	20-1	2003	Tue	Cuban cut nbrs	CW	(DSch)
11435	M08a	21-1	1631	Wed	61669 79832 56433 24155 03577 24678	CW	(DSch)
11530	M08a	21-1	1700	Wed	61669 79832 56433 24155 03577 24678	CW	(DSch)
11635	M08a	21-1	1800	Wed	61669 79832 56433 24155 03577 24678	CW	(DSch)
7554	M08a	21-1	2000	Wed	Cuban cut nbrs: TTUNA ADGWA NRNIN	CW	(DSch)
11635	M08a	21-1	2100	Wed	61669 79832 56433 24155 03577 24678	CW	(DSch)
8096	M08a	22-1	1415	Thu	Cuban cut nbrs	CW	(DSch)
7554	M08a	22-1	2008	Thu	Cuban cut nbrs	CW	(DSch)
8135	M08a	22-1	2300	Thu	Cuban cut nbrs: UDIAA WRADN RTWRA	CW	(DSch)
8096	M08a	23-1	1422	Fri	Late start. Cuban cut nbrs	CW	(DSch)
8135	M08a	23-1	2309	Fri	Cuban cut nbrs	CW	(DSch)
8096	M08a	25-1	1406	Sun	Cuban cut nbrs	CW	(DSch)
8135	M08a	25-1	2303	Sun	Cuban cut nbrs in CW 252303	CW	(DSch)
7554	M08a	26-1	2003	Mon	Cuban cut nbrs	CW	(DSch)
8009	M08a	26-1	2305	Mon	Cuban cut nbrs	CW	(DSch)
8096	M08a	27-1	1404	Tue	Cuban cut nrs	CW	(DSch)
7554	M08a	27-1	2000	Tue	Cuban cut nrs: WWRAN RGTUN UNDGA	CW	(DSch)
8135	M08a	27-1	2319	Tue	Cuban cut nrs	CW	(DSch)
8096	M08a	29-1	1359	Thu	Cuban cut nbrs: INGDA GDRRA TRTTN	CW	(DSch)
8135	M08a	29-1	2318	Thu	Cuban cut nbrs	CW	(DSch)
7554	M08a	30-1	2000	Fri	Cuban cut nbrs	CW	(DSch)
8096	M08a	31-1	1412	Sat	Cuban cut nbrs: AGNRN NNWTA DWTNN	CW	(DSch)
7554	M08a	31-1	2007	Sat	Cuban cut nbrs: AGNRN NNWTA DWTNN	CW	(DSch)
18576	M12	20-12	0020		548 548 548 000	CW	(Token)
17436	M12	20-12	0040		548 548 548 000	CW	(Token)
18576	M12	24-12	0020		548 548 548 1 (R9) 564 101	CW	(Token)
17436	M12	24-12	0040		548 548 548 1 (R9) 564 101	CW	(Token)
15826	M12	24-12	0100		548 548 548 1 (R9) 564 101	CW	(Token)
18576	M12	27-12	0020		548 548 548 1 (R9) 564 101	CW	(Token)
17436	M12	27-12	0040		548 548 548 1 (R9) 564 101	CW	(Token)
15826	M12	27-12	0100		548 548 548 1 (R9) 564 101	CW	(Token)
18576	M12	31-12	0020		548 548 548 000	CW	(Token)
17436	M12	31-12	0040		548 548 548 000	CW	(Token)
15826	M12	3-1	0020	Sat	854 854 854 000	CW	(Token)
14576	M12	3-1	0040	Sat	854 854 854 000	CW	(Token)
14004	M12	8-1	0730	Thu	277 0	CW	(HFD)
5784	M12	8-1	0750	Thu	277 0	CW	(HFD)
13369	M12	8-1	1010	Thu	369 369 369 000	CW	(AB)
13369	M12	8-1	1010	Thu	369 0	CW	(HFD)
14669	M12	8-1	1030	Thu	369 369 369 000	CW	(AB)
14669	M12	8-1	1030	Thu	369 0	CW	(HFD)
15826	M12	10-1	0020	Sat	854 854 854 000	CW	(Token)
14576	M12	10-1	0040	Sat	854 854 854 000	CW	(Token)
11435	M12	12-1	1700	Mon	938 1	CW	(HFD)
10598	M12	12-1	1720	Mon	938 1	CW	(HFD)

Freq.	Code	Date	UTC	Day	Remarks	Mode	Contributor
9327	M12	12-1	1740	Mon	938 1	CW	(HFD)
5788	M12	12-1	1840	Mon	463 1 4793 148 06953 58758 21283 ... 80321 19622 80455 000 000	CW	(AB)
9176	M12	12-1	1900	Mon	257 1 4750 119 77080 56945 35891 ... 46776 48136 000	CW	(AB)
9176	M12	12-1	1900	Mon	257 1	CW	(HFD)
7931	M12	12-1	1920	Mon	257 1	CW	(HFD)
6904	M12	12-1	1940	Mon	257 1	CW	(HFD)
10343	M12	13-1	1930	Tue	124 1	CW	(HFD)
9264	M12	13-1	1950	Tue	124 1	CW	(HFD)
8116	M12	13-1	2010	Tue	124 1	CW	(HFD)
15826	M12	14-1	0020	Wed	854 854 854 000	CW	(Token)
14576	M12	14-1	0040	Wed	854 854 854 000	CW	(Token)
9176	M12	14-1	1800	Wed	257 1	CW	(HFD)
7931	M12	14-1	1820	Wed	257 1	CW	(HFD)
6904	M12	14-1	1840	Wed	257 1	CW	(HFD)
13369	M12	15-1	1010	Thu	369 369 369 000	CW	(AB)
14669	M12	15-1	1030	Thu	369 369 369 000	CW	(AB)
15874	M12	15-1	1131	Thu	i.p. ends 35196 68718 70669 000 000	CW	(Faux)
7692	M12	15-1	1310	Thu	678 678 678 000	CW	(AB)
13386	M12	15-1	1700	Thu	725 1	CW	(HFD)
12189	M12	15-1	1720	Thu	725 1	CW	(HFD)
11491	M12	15-1	1740	Thu	725 1	CW	(HFD)
10343	M12	15-1	1800	Thu	124 1	CW	(HFD)
9264	M12	15-1	1820	Thu	124 1	CW	(HFD)
9264	M12	15-1	1820	Thu	124 1 7307 151 68869 36553 68571 ... 31478 35227 05960 000 000	CW	(AB)
10343	M12	15-1	1820	Thu	124 1 7307 151 68869 36553 68571 ... 31478 35227 05960 000 000	CW	(AB/MPJ)
8116	M12	15-1	1840	Thu	124 1	CW	(HFD)
10343	M12	15-1	1900	Thu	124 1	CW	(HFD)
9264	M12	15-1	1920	Thu	124 1	CW	(HFD)
8116	M12	15-1	1940	Thu	124 1	CW	(HFD)
5839	M12	17-1	0600	Sat	842 0	CW	(HFD)
7439	M12	17-1	0620	Sat	842 0	CW	(HFD)
4457	M12	19-1	0530	Mon	417 0	CW	(HFD)
5157	M12	19-1	0550	Mon	417 0	CW	(HFD)
8047	M12	19-1	1800	Mon	463 1	CW	(HFD)
6802	M12	19-1	1820	Mon	463 1	CW	(HFD)
5788	M12	19-1	1840	Mon	463 1	CW	(HFD)
8047	M12	20-1	1800	Tue	463 3166 131 60768 17394 21162 32049 45320 ... 45667 89039 66122 58_53 000	CW	(MPJ)
6802	M12	20-1	1820	Tue	463 3166 131 60768 17394 21162 32049 45320 ... 45667 89039 66122 58_53 000	CW	(MPJ)
15826	M12	21-1	0020	Wed	854 854 854 1 1 1 (R9) 843 127 (R2)	CW	(Token)
14576	M12	21-1	0040	Wed	854 854 854 1 1 1 (R9) 843 127 (R2)	CW	(Token)
13416	M12	21-1	0100	Wed	854 854 854 1 1 1 (R9) 843 127 (R2)	CW	(Token)
15826	M12	22-1	0100	Thu	435 435 435 1 1 1 (R9) 791 127 (R2)	CW	(Token)
14576	M12	22-1	0120	Thu	435 435 435 1 1 1 (R9) 791 127 (R2)	CW	(Token)
13416	M12	22-1	0140	Thu	435 435 435 1 1 1 (R9) 791 127 (R2)	CW	(Token)
13369	M12	22-1	1010	Thu	369 1 353 153 79887 77335 22907 ... 000 000	CW	(AB)
7692	M12	24-1	1310	Sat	678 1	CW	(HFD)
6792	M12	24-1	1330	Sat	678 1	CW	(HFD)
5892	M12	24-1	1350	Sat	678 1	CW	(HFD)
13369	M12	25-1	1010	Sun	369 1 3023 153 38965 85910 79887 ... 41493 00865 65138 000 000	CW	(AB)
8047	M12	26-1	1800	Mon	463 1 991 171 19689 42385 70776 36295 91303 ... 20838 85157 29291 45996 41152 000 000	CW	(MPJ)
6802	M12	26-1	1820	Mon	463 1 991 171 19689 42385 70776 36295 91303 ... 20838 85157 29291 45996 41152 000 000	CW	(MPJ)
5788	M12	26-1	1840	Mon	463 1 991 171 19689 42385 70776 36295 91303 ... 20838 85157 29291 45996 41152 000 000	CW	(MPJ)
9176	M12	28-1	1800	Wed	257 1 8124 148 65686 19655 86874 46116 81606 ... 14627 56833 11_94 63499 57328 000 000	CW	(MPJ)
6904	M12	28-1	1840	Wed	257 1 8124 148 65686 19655 86874 46116 81606 ... 14627 56833 11_94 63499 57328 000 000	CW	(MPJ)
5361	M12	28-1	2200	Wed	340 1 3860 99 22983 57745 93698 ... 23931 63703 49412 000 000	CW	(AB)
10343	M12	29-1	1800	Thu	124 1 208 212 27497 19613 08143 97988 29561 ... 96438 28246 94878 20969 37070 000 000	CW	(MPJ)
10343	M12	29-1	1900	Thu	124 1 3263 104 84733 08469 97449 59331 11647 ... 45278 97746 68330 43158 000	CW	(MPJ)

Freq.	Code	Date	UTC	Day	Remarks	Mode	Contributor
					000		
9264	M12	29-1	1920	Thu	124 1 3263 104 84733 08469 97449 59331 11647 ... 45278 97746 68330 43158 000	CW	(MPJ)
					000		
7692	M12	31-1	1310	Sat	678 678 678 000	CW	(MPJ)
6792	M12	31-1	1330	Sat	678 678 678 000	CW	(MPJ)
4636	M14	13-1	1820	Tue	186 275 020 51059 23438 76167 ... 84274 96823 17105 275 020 00000	CW	(AB)
4636	M14	13-1	1820	Tue	186 275 020 = 51059	CW	(HFD)
5374	M14	16-1	1700	Fri	382 382 382 00000	CW	(AB)
4975	M14	16-1	1800	Fri	382 382 382 00000	CW	(AB)
5560	M14	17-1	0900	Sat	i.p. 10871 68236 75764 90152 17615 80721 38962 04169 25634 95438 823 020 000009 (!!!)	CW	(Avare)
18041	M14	26-1	0500	Mon	952 471 60 = 35380 66149 21253 ... 69206 02039 53946 = 471 60 0000	CW	(AB)
4761	M14	28-1	1920	Wed	748 621 020 = 44108	CW	(HFD)
3256	M21	22-1	1555	Thu	=991855?0????? =991856?0????? =991857?0?????	CW	(JPL-Sib)
5402.5	M21	25-1	1554	Sun	Radar/tracking plots: 9991998546 444 9992998546 444 ... 9993998545948	CW	(TJ)
2680	M22	4-1	2007	Sun	VVV DE 4XZ 4XZ =	CW	(ASF)
4331	M22	6-1	1739	Tue	VVV DE 4XZ 4XZ =	CW	(BCI)
10442.5	M32	10-1	0800	Sat	XXX 1QRF 43949 KOMECTURA 2306 7776	CW	(ASF)
10442.5	M32	10-1	0800	Sat	XXX 1QRF 97029 PROBEL 1396 3924 DOPISKA 1731 0622 K	CW	(ASF)
10442.5	M32	10-1	0804	Sat	XXX 1QRF 94472 PREEMUTWO 8014 8842 STEKOLXN-T 2300 9492 K	CW	(ASF)
10442.5	M32	10-1	0948	Sat	XXX MSK7 66342 TRANSPORT 3453 0892 ASPERULA 8553 8760 K	CW	(ASF)
10442.5	M32	10-1	0950	Sat	XXX MSK7 88478 BRASSIKON 4647 7561 POLIMENT 9127 6954 K	CW	(ASF)
10442.5	M32	10-1	0952	Sat	XXX MSK7 83709 KONSERWNYJ 0545 0030 K	CW	(ASF)
10442.5	M32	10-1	1001	Sat	XXX MSK 7 42549 STEROFIZIN 8726 2008 K	CW	(ASF)
12631	M32	12-1	0950	Mon	i.p. 22592 45599 22592 45599 22592 45599	MCW	(AB)
5376	M32	22-1	1636	Thu	XXX XXX WEGI WEGI 18804 18876 RATELX 8129 7912 K	CW	(AB)
21.1	M32	22-1	1643	Thu	XXX XXX WEGI WEGI 18804 18876 RATELX 8129 7912 K	CW	(AB)
21.1	M32	22-1	1803	Thu	XXX XXX LZT6 LZT6 83237 32529 SALTYS 8678 2420 K	CW	(AB)
3695	M32	23-1	1338	Fri	ZMC ZNW ZIM K. OK R K. GJCU DE TFCK QSA ? K	CW	(JPL-Sib)
14557	M32	24-1	0920	Sat	xxx xxx msk7 msk7 59387 nae	CW	(AB)
14557	M32	24-1	0922	Sat	xxx xxx msk7 msk7 50590 bryvejka 8317 3041	CW	(AB)
14557	M32	24-1	0923	Sat	xxx xxx msk7 msk7 90502 kromalxt it 285e■ 2e e tm83	CW	(AB)
14557	M32	24-1	0924	Sat	xxx xxx msk7 msk7 51939 psesens j ee ti tt ttt 67 tatm 0	CW	(AB)
14557	M32	24-1	0926	Sat	xxx xxx msk7 msk7 73019 gorstx 5158 3363	CW	(AB)
21.1	M32	24-1	1455	Sat	XXX XXX WEGI WEGI 50615 78977 TATARSKIJ 6760 7714 K //8130 kHz	CW	(TJ)
8130	M32	24-1	1455	Sat	XXX XXX WEGI WEGI 50615 78977 TATARSKIJ 6760 7714 K //21.1 kHz	CW	(TJ)
9192	M32	26-1	0954	Mon	i.p. 61277 84254 54367 26020 885 K. R K. LGYN DE DYLG R ? K	CW	(JPL-Sib)
5736	M32	26-1	1009	Mon	i.p. LJP6 LJP6 QTC 353 55 26 1700 353 = 811 = 11111 34642 86996 11717 (Cont'd)	CW	(JPL-Sib)
5403	M32	26-1	1506	Mon	i.p. RDL 59098 15258 59098 15258 59098 15258 K	CW	(JPL-Sib)
5775	M32	26-1	2226	Mon	i.p. 12437 11181 56292 89969 ... 10998 56926 26094 K. O72Z R 702 K.	CW	(JPL-Sib)
21.1	M32	29-1	1231	Thu	xxx xxx wegi wegi 761_9 50532 pihra 0807 3711 k //10164 kHz	CW	(TJ)
10164	M32	29-1	1231	Thu	xxx xxx wegi wegi 761_9 50532 pihra 0807 3711 k //21.1 kHz	CW	(TJ)
21.1	M32	29-1	1240	Thu	xxx xxx rgt77 rgt77 51298 83763 skrutina 7145 5056 k //10164 kHz	CW	(TJ)
10164	M32	29-1	1240	Thu	xxx xxx rgt77 rgt77 51298 83763 skrutina 7145 5056 k //21.1 kHz	CW	(TJ)
21.1	M32	29-1	1241	Thu	xxx xxx lzt6 lzt6 85733 07330 odul 8881 6461 k //10164 kHz	CW	(TJ)
10164	M32	29-1	1241	Thu	xxx xxx lzt6 lzt6 85733 07330 odul 8881 6461 k //21.1 kHz	CW	(TJ)
5596	M32	30-1	1817	Fri	6Y2P ZRO ZTC ZDL QYT4 K. 6Y2P ZRO ZTC ZDL QYT4 K. R K	CW	(JPL-Sib)
12464	M32a	2-1	1524	Fri	RCV de RHO62 QSA ? QTC K	CW	(F5JBR)
10543	M32a	3-1	1545	Sat	RGX94 de RCV QTC 867 16 3 1350 867 = NAWAREA 035 4 KARTA 36308 POBEREVXE ALVIRA OGONX etc	CW	(F5JBR)
5009	M32a	3-1	1653	Sat	RCV de RIR98 K. RIR98 de RCV	CW	(F5JBR)
5224	M32a	4-1	0526	Sun	RIP90 de RCV QTC 406 ...	CW	(F5JBR)
6836	M32a	4-1	0601	Sun	RMW46 wkg RGR49 RGR87 RGR88 RGR89 RGR90 RGR91 RGR92 RFH46 RGR93 RGR94 RGR95 RGR96 RGR97 RDQ81 RGR98	CW	(ASF)
5009	M32a	4-1	1802	Sun	RCV de RIR98 QTC 547 18 4 2100 547 = SML FOR RJE73 RJH45 = 04191 99359 10348 ...	CW	(F5JBR)
12671	M32a	5-1	1321	Mon	RCV wkg RAA	CW	(F5JBR)
4079	M32a	5-1	1837	Mon	XXX RJC66 RJE71 RIO96 98746 BRIWALA 4302 4368 K	CW	(F5JBR)
14540	M32a	12-1	1227	Mon	RJD97 DE RAA K	CW	(AB)
14556	M32a	26-1	0840	Mon	VVV RAL46 RAL46 RAL46 DE RIW RIW QSA? QTC K	CW	(JU)
14556	M32a	26-1	0913	Mon	RDND DE RIW K. RDND DE RIW QRR3 SK K. RDND DE RIW K. RDND DE RIW QSU1 QWH 13086 QSX 12260 K	CW	(JU)
13086	M32a	26-1	0932	Mon	RDND DE RIW K. RWW QYT4 QWH 9700 12056 QSX 8318 12374 FM RAA K	CW	(JU)
8018	M32a	26-1	0941	Mon	RJF95 786 55 26 1206 786 = AAAAA HVVST ZGMF\A (Cont'd)	CW	(JPL-Sib)

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13086	M32a	26-1	0957	Mon	RIW 697 6326 1100 697= FM RAA = 64222 81201 03474 95649 13421 ...	CW	(JU)
4979	M32b	4-1	2004	Sun	RAL2áclg RIB2áRGH2 RMW2 RHQ2 RBL66	CW	(ASF)
9933	M32b	5-1	0903	Mon	RAL2 wkg RIB2 RGH2 RGH2 RMW2 RHQ2 RBL66	CW	(F5JBR)
14557	M32c	8-1	0816	Thu	XXX XXX 1QRF 1QRF 01779 ORITUKO 4476 3681	CW	(JU)
14557	M32c	8-1	0910	Thu	XXX XXX MSK7 MSK7 22603 ARYOeNYJ 4341 2633	CW	(JU)
8112	M32c	22-1	1220	Thu	W-markers: Tu-95MS Bear H net	CW	(Tom)
8112	M32c	22-1	1224	Thu	Tu-95MS Bear H net NCS: P6ZI DE IWV4 K	CW	(Tom)
8112	M32c	23-1	0900	Fri	W-markers: Tu-95MS Bear H net	CW	(Tom)
8112	M32c	24-1	0820	Sat	W-markers: Tu-95MS Bear H net	CW	(Tom)
8112	M32c	24-1	0900	Sat	W-marker	CW	(AB)
14557	M32c	26-1	0841	Mon	REA4 REA4 = 26070 99900 25120 62596 75997 20602 11240 21271 80001 = REA4 K	CW	(JU)
8112	M32c	28-1	0540	Wed	W-markers: Tu-95MS Bear H net	CW	(Tom)
8112	M32c	28-1	0629	Wed	Tu-95MS Bear H net NCS: ?IV4 DE F76Y K	CW	(Tom)
8112	M32c	28-1	0838	Wed	Ü-markers: Tu-95MS Bear H net	CW	(AB)
8112	M32c	28-1	0840	Wed	W-markers: Tu-95MS Bear H net	CW	(AB)
4985	M41	5-1	1601	Mon	7221 9497 49996 0185128820751754 ABV 7221949994089960185128820 751754 BZZJ K	CW	(F5JBR)
5740	M41	9-1	1550	Fri	JV3T JV3T AR	CW	(ASF)
14576	M41	22-1	0747	Thu	WZD 9903 368 63 22 72 80 800 52 ABV 9903 368 63 22 72 80 800 52	CW	(WP3)
10158	M42	7-1	1200	Wed	Russian diplo/intel. Msg 167 on link 45137	FSL 200/1000	(AB/MPJ)
6925	M42	9-1	0650	Fri	Russian Gov. Marker after every 50 group	FSK 50/500	(BCI)
7675	M42	12-1	0657	Mon	Russian Gov. station	RUS-ARQ 100/500	(BCI)
8115	M42	12-1	0718	Mon	Russian Gov. station	RUS-ARQ 100/1000	(BCI)
18320	M42	13-1	0844	Tue	Russian Gov. station	RUS-ARQ 100/1000	(BCI)
23000	M42	13-1	0911	Tue	Russian Gov. station	RUS-ARQ 100/1000	(BCI)
7610	M42	14-1	0730	Wed	Russian Gov. station	RUS-ARQ 100/500	(BCI)
7650	M42	14-1	0738	Wed	Russian Gov. station	RUS-ARQ 100/500	(BCI)
16059.5	M42	15-1	0815	Thu	Russian Gov. station	RUS-ARQ 100/2000	(BCI)
16091.5	M42	15-1	0818	Thu	Russian Gov. station	RUS-ARQ 100/2000	(BCI)
16176.5	M42	15-1	0821	Thu	Russian Gov. station	RUS-ARQ 100/2500	(BCI)
18150	M42	16-1	0717	Fri	Russian Gov. station	RUS-ARQ 100/1000	(BCI)
18480.5	M42	16-1	0730	Fri	Russian Gov. station	RUS-ARQ 100/2000	(BCI)
13994.5	M42	16-1	0856	Fri	Russian Gov. station	RUS-ARQ 100/1000	(BCI)
13990.5	M42	16-1	0857	Fri	Russian Gov. station	RUS-ARQ 100/1000	(BCI)
15870	M42	16-1	0924	Fri	Russian Gov. station	RUS-ARQ 100/500	(BCI)
15940	M42	16-1	0926	Fri	Russian Gov. station	RUS-ARQ 100/500	(BCI)
16158	M42	16-1	0929	Fri	Russian Gov. station	RUS-ARQ 100/1000	(BCI)
5767	M42	31-1	2040	Sat	Russian Diplo	CROWD-36	(AAI)
7697	M42a	7-1	1536	Wed	3K. VVV VVV VVV AR NW – 95 678 – 0 1 312 – 0 1 312 eeee 0 392 – eeeeeeeee 31 6 309 – 392 3K	CW	(EW)
10757	M42b	18-1	0043	Sun	Russian Gov. 5LGs header with "=50" separators: 0048 150 18 0017 7462	FSK 50/500	(MCO)
7682	M42c	3-1	1810	Sat	Russian diplo/Intel. RYRYRY 00000+++++++162)5761	FSK 200/500	(AB)
5385	M42c	3-1	1820	Sat	Russian diplo/Intel. RYRYRY 00000+++++++162)5761	FSK 200/500	(AB)
4570	M42c	3-1	1830	Sat	Russian diplo/Intel. RYRYRY 00000+++++++162)5761	FSK 200/500	(AB)
5791	M42c	8-1	2000	Thu	Russian diplo/Intel. RYRYRY 00000+++++++162)5761	FSK 200/500	(AB)
4536	M42c	8-1	2010	Thu	Russian diplo/Intel. RYRYRY 00000+++++++162)5761	FSK 200/500	(AB)
3825	M42c	8-1	2020	Thu	Russian diplo/Intel. RYRYRY 00000+++++++162)5761	FSK 200/500	(AB)
16142	M42c	10-1	1310	Sat	Russian diplo/Intel. RYRYRY 00000+++++++162)5761	FSK 200/500	(AAI)
7682	M42c	10-1	1810	Sat	Russian diplo/Intel. RYRYRY 00000+++++++162)5761	FSK 200/500	(AB)
5385	M42c	10-1	1820	Sat	Russian diplo/Intel. RYRYRY 00000+++++++162)5761	FSK 200/500	(AB)
4570	M42c	10-1	1830	Sat	Russian diplo/Intel. RYRYRY 00000+++++++162)5761	FSK 200/500	(AB)
9160	M42c	13-1	0925	Tue	Russian diplo/intel.. 00000+++++++203=8691 96728460554278432 =8562 67745783478147042 =8763 etc	FSK 200/500	(IW)

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5791	M42c	15-1	2000	Thu	Russian diplo/Intel. RYRYRY 00000+++++++162)5761	FSK 200/500	(AB/MPJ)
4536	M42c	15-1	2010	Thu	Russian diplo/Intel. RYRYRY 00000+++++++162)5761	FSK 200/500	(AB/MPJ)
3825	M42c	15-1	2020	Thu	Russian diplo/Intel. RYRYRY 00000+++++++162)5761	FSK 200/500	(AB/MPJ)
7682	M42c	17-1	1810	Sat	Russian diplo/Intel. RYRYRY 00000+++++++162)5761	FSK 200/500	(AB)
5385	M42c	17-1	1820	Sat	Russian diplo/Intel. RYRYRY 00000+++++++162)5761	FSK 200/500	(AB)
4570	M42c	17-1	1830	Sat	Russian diplo/Intel. RYRYRY 00000+++++++162)5761	FSK 200/500	(AB)
18524	M42c	24-1	1300	Sat	Russian diplo/intel. RYRYRY 00000+++++++162)5761	FSK 200/500	(AB)
16140	M42c	24-1	1320	Sat	Russian diplo/intel. RYRYRY 00000+++++++162)5761	FSK 200/500	(AB)
4538	M42c	29-1	2010	Thu	Russian diplo/Intel. RYRYRY 00000+++++++162)5761	FSK 200/500	(MPJ)
3827	M42c	29-1	2020	Thu	Russian diplo/Intel. RYRYRY 00000+++++++162)5761	FSK 200/500	(MPJ)
18524	M42c	31-1	1300	Sat	Russian diplo/intel. RYRYRY 00000+++++++162)5761	FSK 200/500	(AB)
14672	M42c	31-1	1300	Sat	Russian diplo/intel. RYRYRY 00000+++++++162)5761	FSK 200/500	(AB)
16140	M42c	31-1	1300	Sat	Russian diplo/intel. RYRYRY 00000+++++++162)5761	FSK 200/500	(AB)
7684	M42c	31-1	1810	Sat	Russian Diplo/Intel, RYRYRY 00000+++++++162)5761	FSK 200/500	(MPJ)
5387	M42c	31-1	1820	Sat	Russian Diplo/Intel, RYRYRY 00000+++++++162)5761	FSK 200/500	(MPJ)
10292	M42d	1-1	0700	Thu	Russian diplo/intel. Msg 155 on link 45136	FSK 200/1000	(AB)
8066	M42d	1-1	0710	Thu	Russian diplo/intel. Msg 155 on link 45136	FSK 200/1000	(AB)
5793	M42d	1-1	2000	Thu	msg	FSK 200/1000	(HFD)
4538	M42d	1-1	2010	Thu	msg	FSK 200/1000	(HFD)
3827	M42d	1-1	2020	Thu	msg	FSK 200/1000	(HFD)
10292	M42d	2-1	0700	Fri	Russian diplo/intel. Msg 007 on link 45136	FSK 200/1000	(AB)
20014	M42d	3-1	1100	Sat	Russian diplo/intel. Msg 002 on link 36882	FSK 200/1000	(IW)
18353	M42d	3-1	1110	Sat	Russian diplo/intel. Msg 002 on link 36882	FSK 200/1000	(IW)
16245	M42d	3-1	1120	Sat	Russian diplo/intel. Msg 002 on link 36882	FSK 200/1000	(IW)
18526	M42d	3-1	1300	Sat	msg	FSK 200/1000	(HFD)
16142	M42d	3-1	1310	Sat	msg	FSK 200/1000	(HFD)
14674	M42d	3-1	1320	Sat	msg	FSK 200/1000	(HFD)
20562	M42d	3-1	1500	Sat	Russian diplo/intel. Msg 002 on link 32821	FSK 200/1000	(AB)
18471	M42d	3-1	1510	Sat	Russian diplo/intel. Msg 002 in link 32821	FSK 200/1000	(IW)
18569	M42d	3-1	1510	Sat	Russian diplo/intel. Msg 002 on link 32821	FSK 200/1000	(AB)
16306	M42d	3-1	1520	Sat	Russian diplo/intel. Msg 002 on link 32821	FSK 200/1000	(AB)
16308	M42d	3-1	1520	Sat	Russian diplo/intel. Msg 002 in link 32821	FSK 200/1000	(IW)
5387	M42d	3-1	1820	Sat	msg	FSK 200/1000	(HFD)
4572	M42d	3-1	1830	Sat	msg	FSK 200/1000	(HFD)
12148	M42d	4-1	1530	Sun	Russian diplo/intel. Msg 122 on link 20501	FSK 200/1000	(IW)
10236	M42d	4-1	1540	Sun	Russian diplo/intel. Msg 122 on link 20501	FSK 200/1000	(IW)
8129	M42d	4-1	1550	Sun	Russian diplo/intel. Msg 122 on link 20501	FSK 200/1000	(IW)
10292	M42d	5-1	0700	Mon	Russian diplo/intel. Msg 160 on link 45137	FSK 200/1000	(AB)
8066	M42d	5-1	0710	Mon	Russian diplo/intel. Msg 160 on link 45137	FSK 200/1000	(AB)
10156	M42d	5-1	1200	Mon	Russian diplo/intel. Msg 160 on link 45137	FSK 200/1000	(AB)
10175	M42d	6-1	0753	Tue	Russian diplo/intel.	FSK 200/1000	(BCI)
17428	M42d	6-1	1400	Tue	Russian diplo/intel. Msg 002 on link 32799	FSK 200/1000	(AB/MPJ)
15836	M42d	6-1	1410	Tue	Russian diplo/intel. Msg 002 on link 32799	FSK 200/1000	(AB/MPJ)
13394	M42d	6-1	1420	Tue	Russian diplo/intel. Msg 002 on link 32799	FSK 200/1000	(AB/MPJ)
4027	M42d	6-1	2220	Tue	Russian diplo/intel. Msg 002 on link 45057	FSK 200/1000	(AB)
14492	M42d	7-1	1020	Wed	Russian diplo/intel. Msg 002 on lonk 49202	FSK 200/1000	(AB)
8021	M42d	7-1	1210	Wed	Russian diplo/intel. Msg 167 on link 45137	FSK 200/1000	(AB)
16327	M42d	7-1	1230	Wed	Russian diplo/intel. Msg 002 on link 53277	FSK 200/1000	(AB)
14824	M42d	7-1	1240	Wed	Russian diplo/intel. Msg 002 on link 53277	FSK 200/1000	(AB)
12164	M42d	7-1	1250	Wed	Russian diplo/intel. Msg 002 on link 53277	FSK 200/1000	(AB)
10156	M42d	8-1	1200	Thu	Russian diplo/intel. Msg 170 on link 45136	FSK 200/1000	(AB)
8021	M42d	8-1	1210	Thu	Russian diplo/intel. Msg 170 on link 45136	FSK 200/1000	(AB)
10292	M42d	9-1	0700	Fri	Russian diplo/intel. Msg 145 on link 45136	FSK 200/1000	(AB)
8066	M42d	9-1	0710	Fri	Russian diplo/intel. Msg 145 on link 45136	FSK 200/1000	(AB)
5203	M42d	9-1	1726	Fri	Russian diplo/intel.	FSK 200/1000	(BCI)
18734	M42d	10-1	1000	Sat	Russian diplo/intel. Msg 167 on link 45047	FSK 200/1000	(AB)
20971	M42d	10-1	1000	Sat	Russian diplo/intel. Msg 167 on link 45047	FSK 200/1000	(AB)
16326	M42d	10-1	1000	Sat	Russian diplo/intel. Msg 167 on link 45047	FSK 200/1000	(AB)
20012	M42d	10-1	1100	Sat	Russian diplo/intel. Msg 002 on link 36882	FSK 200/1000	(AB)
18351	M42d	10-1	1110	Sat	Russian diplo/intel. Msg 002 on link 36882	FSK 200/1000	(AB)
15243	M42d	10-1	1120	Sat	Russian diplo/intel. Msg 002 on link 36882	FSK 200/1000	(AB)
10292	M42d	12-1	0700	Mon	Russian diplo/intel. Msg 175 on link 45136	FSK 200/1000	(AB/IW)

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8066	M42d	12-1	0710	Mon	Russian diplo/intel. Msg 175 on link 45136	FSK 200/1000	(AB)
10156	M42d	12-1	1200	Mon	Russian diplo/intel. Msg 175 on link 45136	FSK 200/1000	(AB)
8021	M42d	12-1	1210	Mon	Russian diplo/intel. Msg 175 on link 45136	FSK 200/1000	(AB)
10292	M42d	13-1	0700	Tue	Russian diplo/intel. Msg 177 on link 45136	FSK 200/1000	(IW)
8068	M42d	13-1	0703	Tue	Russian diplo/intel.	FSK 200/1000	(BCI)
10156	M42d	13-1	1200	Tue	Russian diplo/intel. Msg 177 on link 45136	FSK 200/1000	(AB)
8021	M42d	13-1	1210	Tue	Russian diplo/intel. Msg 177 on link 45136	FSK 200/1000	(AB)
6794	M42d	13-1	1220	Tue	Russian diplo/intel. Msg 177 on link 45136	FSK 200/1000	(AB)
17427	M42d	13-1	1400	Tue	Russian diplo/intel. Msg 002 on link 32799	FSK 200/1000	(AB)
15836	M42d	13-1	1410	Tue	Russian diplo/intel. Msg 002 on link 32799	FSK 200/1000	(AB)
13394	M42d	13-1	1420	Tue	Russian diplo/intel. Msg 002 on link 32799	FSK 200/1000	(AB)
19311	M42d	14-1	1000	Wed	Russian diplo/intel. Msg 002 on link 49202	FSK 200/1000	(AB)
16346	M42d	14-1	1010	Wed	Russian diplo/intel. Msg 002 on link 49202	FSK 200/1000	(AB)
14492	M42d	14-1	1020	Wed	Russian diplo/intel. Msg 002 on link 49202	FSK 200/1000	(AB)
10156	M42d	14-1	1200	Wed	Russian diplo/intel. Msg 182 on link 45136	FSK 200/1000	(AB)
8021	M42d	14-1	1200	Wed	Russian diplo/intel. Msg 182 on link 45136	FSK 200/1000	(AB)
6856	M42d	14-1	2128	Wed	Russian diplo/intel.	FSK 200/1000	(BCI)
8066	M42d	15-1	0710	Thu	Russian diplo/intel. Msg 185 on link 45136	FSK 200/1000	(AB)
6767	M42d	15-1	0720	Thu	Russian diplo/intel. Msg 185 on link 45136	FSK 200/1000	(AB)
10156	M42d	15-1	1200	Thu	Russian diplo/intel. Msg 185 on link 45136	FSK 200/1000	(AB)
8021	M42d	15-1	1210	Thu	Russian diplo/intel. Msg 185 on link 45136	FSK 200/1000	(AB)
6794	M42d	15-1	1220	Thu	Russian diplo/intel. Msg 185 on link 45136	FSK 200/1000	(AB)
20012	M42d	17-1	1100	Sat	Russian diplo/intel. Msg 242 on link 36882	FSK 200/1000	(AB)
18351	M42d	17-1	1110	Sat	Russian diplo/intel. Msg 242 on link 36882	FSK 200/1000	(AB)
16243	M42d	17-1	1120	Sat	Russian diplo/intel. Msg 242 on link 36882	FSK 200/1000	(AB)
20564	M42d	18-1	1506	Sun	Russian diplo/intel.	FSK 200/1000	(MCO)
10292	M42d	19-1	0700	Mon	Russian diplo/intel. Msg 190 on link 45136	FSK 200/1000	(AB)
8066	M42d	19-1	0710	Mon	Russian diplo/intel. Msg 190 on link 45136	FSK 200/1000	(AB)
6767	M42d	19-1	0720	Mon	Russian diplo/intel. Msg 190 on link 45136	FSK 200/1000	(AB)
10292	M42d	20-1	0700	Tue	Russian diplo/intel. Msg 192 on link 45137	FSK 200/1000	(AB)
8066	M42d	20-1	0710	Tue	Russian diplo/intel. Msg 192 on link 45137	FSK 200/1000	(AB)
6767	M42d	20-1	0720	Tue	Russian diplo/intel. Msg 192 on link 45137	FSK 200/1000	(AB)
10156	M42d	20-1	1200	Tue	Russian diplo/intel. Faulty shift (should be 1000). Msg 002 on link 32799	FSK 200/500	(AB)
8021	M42d	20-1	1210	Tue	Russian diplo/intel. Faulty shift (should be 1000). Msg 002 on link 32799	FSK 200/500	(AB)
6794	M42d	20-1	1220	Tue	Russian diplo/intel. Faulty shift (should be 1000). Msg 002 on link 32799	FSK 200/500	(AB)
15836	M42d	20-1	1400	Tue	Russian diplo/intel. Msg 090 on link 32799	FSK 200/1000	(MPJ)
17427	M42d	20-1	1420	Tue	Russian diplo/intel. Msg 090 on link 32799	FSK 200/1000	(MPJ)
13394	M42d	20-1	1420	Tue	Russian diplo/intel. Msg 090 on link 32799	FSK 200/1000	(AB/MPJ)
6794	M42d	20-1	2200	Tue	Russian diplo/intel. Msg 002 on link 45057	FSK200/1000	(AB)
5318	M42d	20-1	2210	Tue	Russian diplo/intel. Msg 002 on link 45057	FSK200/1000	(AB)
4029	M42d	20-1	2220	Tue	Russian diplo/intel. Msg 002 on link 45057	FSK200/1000	(AB)
5148	M42d	20-1	2320	Tue	Russian diplo/intel. Msg 110 on link 40988	FSK200/1000	(AB)
16320	M42d	21-1	0150	Wed	Russian diplo/intel. Msg 020 on link 41018	FSK 200/1000	(Dan)
14880	M42d	21-1	0230	Wed	Russian diplo/intel. Msg 020 on link 41018	FSK 200/1000	(Dan)
19311	M42d	21-1	1000	Wed	Russian diplo/intel. Msg 002 on link 49202	FSK 200/1000	(AB)
16346	M42d	21-1	1010	Wed	Russian diplo/intel. Msg 002 on link 49202	FSK 200/1000	(AB)
14492	M42d	21-1	1020	Wed	Russian diplo/intel. Msg 002 on link 49202	FSK 200/1000	(AB)
10156	M42d	21-1	1200	Wed	Russian diplo/intel. Msg 197 on link 45136	FSK 200/1000	(AB)
8021	M42d	21-1	1210	Wed	Russian diplo/intel. Msg 197 on link 45136	FSK 200/1000	(AB)
6794	M42d	21-1	1220	Wed	Russian diplo/intel. Msg 197 on link 45136	FSK 200/1000	(AB)
16327	M42d	21-1	1230	Wed	Russian diplo/intel. Msg 160 on link 53277	FSK 200/1000	(AB/AAI)
14824	M42d	21-1	1240	Wed	Russian diplo/intel. Msg 160 on link 53277	FSK 200/1000	(AB)
12164	M42d	21-1	1250	Wed	Russian diplo/intel. Msg 160 on link 53277	FSK 200/1000	(AB)
10156	M42d	22-1	1200	Thu	Russian diplo/intel. Msg 020 on link 45136	FSK 200/1000	(AB)
8021	M42d	22-1	1210	Thu	Russian diplo/intel. Msg 020 on link 45136	FSK 200/1000	(AB)
6794	M42d	22-1	1220	Thu	Russian diplo/intel. Msg 020 on link 45136	FSK 200/1000	(AB)
8066	M42d	23-1	0710	Fri	Russian diplo/intel. Msg 170 on link 45137	FSK 200/1000	(AB)
16243	M42d	24-1	1120	Sat	Russian diplo/intel. Msg 245 on link 36882	FSK 200/1000	(AB)
10156	M42d	25-1	1200	Sun	Russian diplo/intel. Msg 205 on link 45137	FSK 200/1000	(AB)
8021	M42d	25-1	1210	Sun	Russian diplo/intel. Msg 205 on link 45137	FSK 200/1000	(AB)
10292	M42d	27-1	0700	Tue	Russian diplo. Msg 207 on link 45136	FSK 200/1000	(AB)
8066	M42d	27-1	0710	Tue	Russian diplo. Msg 207 on link 45136	FSK 200/1000	(AB)

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10156	M42d	27-1	1200	Tue	Russian diplo/intel. Msg 207 on link 45137	FSK 200/1000	(AB)
8021	M42d	27-1	1210	Tue	Russian diplo/intel. Msg 207 on link 45137	FSK 200/1000	(AB)
6794	M42d	27-1	1220	Tue	Russian diplo/intel. Msg 207 on link 45137	FSK 200/1000	(AB)
17427	M42d	27-1	1400	Tue	Russian diplo/intel. Msg 002 on link 32799	FSK 200/1000	(AB)
15836	M42d	27-1	1410	Tue	Russian diplo/intel. Msg 002 on link 32799	FSK 200/1000	(AB)
13394	M42d	27-1	1420	Tue	Russian diplo/intel. Msg 002 on link 32799	FSK 200/1000	(AB)
9143	M42d	27-1	1650	Tue	Russian Diplo/Intel. Msg 002/27th Type 07145 Gr4 to Link 20501	FSK 200/1000	(MPJ)
7861	M42d	27-1	1700	Tue	Russian Diplo/Intel. Msg 002/27th Type 07145 Gr4 to Link 20501	FSK 200/1000	(MPJ)
5384	M42d	27-1	1710	Tue	Russian Diplo/Intel. Msg 002/27th Type 07145 Gr4 to Link 20501	FSK 200/1000	(MPJ)
8124	M42d	27-1	2300	Tue	Russian diplo/intel. Msg 111 on link 40988	FSK 200/1000	(AB)
7641	M42d	27-1	2310	Tue	Russian diplo/intel. Msg 111 on link 40988	FSK 200/1000	(AB)
5146	M42d	27-1	2320	Tue	Russian diplo/intel. Msg 111 on link 40988	FSK 200/1000	(AB)
19311	M42d	28-1	1000	Wed	Russian diplo/intel. Msg 110 on link 49202	FSK 200/1000	(AB)
16346	M42d	28-1	1010	Wed	Russian diplo/intel. Msg 110 on link 49202	FSK 200/1000	(AB)
14492	M42d	28-1	1020	Wed	Russian diplo/intel. Msg 110 on link 49202	FSK 200/1000	(AB)
10156	M42d	28-1	1200	Wed	Russian diplo/intel. Msg 212 on link 45136	FSK 200/1000	(AB)
8021	M42d	28-1	1210	Wed	Russian diplo/intel. Msg 212 on link 45136	FSK 200/1000	(AB)
6794	M42d	28-1	1220	Wed	Russian diplo/intel. Msg 212 on link 45136	FSK 200/1000	(AB)
10292	M42d	29-1	0700	Thu	Russian diplo/intel. Msg 215 on link 45137	FSK 200/1000	(AB)
8066	M42d	29-1	0710	Thu	Russian diplo/intel. Msg 215 on link 45137	FSK 200/1000	(AB)
6767	M42d	29-1	0720	Thu	Russian diplo/intel. Msg 215 on link 45137	FSK 200/1000	(AB)
10156	M42d	29-1	1200	Thu	Russian diplo/intel. Msg 215 on link 45137	FSK 200/1000	(AB)
8021	M42d	29-1	1210	Thu	Russian diplo/intel. Msg 215 on link 45137	FSK 200/1000	(AB)
6794	M42d	29-1	1220	Thu	Russian diplo/intel. Msg 215 on link 45137	FSK 200/1000	(AB)
20012	M42d	31-1	1100	Sat	Russian diplo/intel. Msg 247 on link 36882	FSK 200/1000	(AB)
18351	M42d	31-1	1110	Sat	Russian diplo/intel. Msg 247 on link 36882	FSK 200/1000	(AB)
16243	M42d	31-1	1120	Sat	Russian diplo/intel. Msg 247 on link 36882	FSK 200/1000	(AB)
20563	M42d	31-1	1500	Sat	Russian Diplo/Intel. Msg 002 on link 32821	FSK 200/1000	(AB/MPJ)
18470	M42d	31-1	1510	Sat	Russian Diplo/Intel. Msg 002 on link 32821	FSK 200/1000	(AB/MPJ)
16307	M42d	31-1	1520	Sat	Russian Diplo/Intel. Msg 002 on link 32821	FSK 200/1000	(AB/MPJ)
7529	M51	5-1	0801	Mon	NR 15 J 05 09:04:11 05 2015 = LOCNH FYCCR NMLOJ SXAJI FQHRY OVPQD GERLP DZYVU PBUTY IXIZN ...	CW	(BCI)
6825	M51	5-1	1357	Mon	NR 59 J 05 14:57:27 2015 = HJGTC CKMRX TCNGD ZYREC DKDKI ...	CW	(MPJ)
14671.5	M51	6-1	0849	Tue	NR 12 J 06 09:49:25 2015 = 5LGs //8618 kHz	CW	(F5JBR)
8618	M51	6-1	0849	Tue	NR 12 J 06 09:49:25 2015 = 5LGs //14671.5 kHz	CW	(F5JBR)
8549	M51	6-1	1430	Tue	NR 57 J 06 15:30:44 2015 = FYFQG UZDUD KTOOX NFWWL ... //5453 kHz	CW	(F5JBR)
5453	M51	6-1	1430	Tue	NR 57 J 06 15:30:44 2015 = FYFQG UZDUD KTOOX NFWWL ... //8549 kHz	CW	(F5JBR)
5453	M51	6-1	1516	Tue	5LGs = NR 63 J 06 16:20:37 2015 = 5LGs	CW	(AB)
5453	M51	6-1	1958	Tue	FAV22	CW	(BCI)
7535	M51	7-1	1524	Wed	NR 57 J 07 15:240:27 2015 BT PIKTQ MRHYP TNTVM ... //7529 kHz	CW	(ASF)
7529	M51	7-1	1524	Wed	NR 57 J 07 15:240:27 2015 BT PIKTQ MRHYP TNTVM ... //7535 kHz	CW	(ASF)
6825	M51	9-1	0830	Fri	FAV22	CW	(BCI)
10115.5	M51	18-1	1230	Sun	Very unusual 20-hour transmission //9213 kHz	CW	(Danix)
9213	M51	18-1	1230	Sun	Very unusual 20-hour transmission //10115.5 kHz	CW	(Danix)
7529	M51	22-1	0045	Thu	5LGs	CW	(MCO)
6825	M51a	19-1	1227	Mon	= NR 48 J 21 13:28:50 2015 = after a few groups in switched to VVV VVV VVV DE FAV22 FAV22 FAV22 //3881 kHz	CW	(Danix)
3881	M51a	19-1	1227	Mon	= NR 48 J 21 13:28:50 2015 = after a few groups in switched to VVV VVV VVV DE FAV22 FAV22 FAV22 //6825 kHz	CW	(Danix)
3881	M51a	19-1	1651	Mon	= NR 85 J 21 17:53:05 2015 = //6825 kHz	CW	(Danix)
6825	M51a	19-1	1651	Mon	= NR 85 J 21 17:53:05 2015 = //3881 kHz	CW	(Danix)
6793	M89	3-1	0825	Sat	M8JF de RIS9 V	CW	(ASF)
10180	M89	3-1	1533	Sat	DKG6 de 3A7D V	CW	(ASF)
3642	M89	12-1	1359	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
4212	M89	12-1	1406	Mon	i.p. XLIC DE BJ3H BJ3H QSA? K. VV XLIC QSA 2 K	CW	(JPL)
3777	M89	12-1	1430	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd)	CW	(JPL)
3777	M89	12-1	1435	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	12-1	1435	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
5500	M89	12-1	1436	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
3330	M89	12-1	1449	Mon	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3821	M89	12-1	1457	Mon	V DKSL (x3) DE ALSK V (x2) (Cont'd)	CW	(JPL)
3821	M89	12-1	1934	Mon	V DKSL (x3) DE ALSK V (x2) (Cont'd)	CW	(JPL)

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5500	M89	12-1	1937	Mon	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
3330	M89	12-1	1938	Mon	V MW3D (x3) DE 2SLC (x2) (Cont'd	CW	(JPL)
4532	M89	12-1	1940	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3777	M89	12-1	1940	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
3642	M89	12-1	1943	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	12-1	1943	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
4131	M89	12-1	1958	Mon	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
4321	M89	12-1	1959	Mon	i.p. N7DN 76N7 D... UAT6 D636 NT7U (Cont'd) K K KRR KRR	CW	(JPL)
4319	M89	12-1	2002	Mon	i.p. 3A3J 3A3J 3A3J DE B4ZJ B4ZJ K	CW	(JPL)
5644	M89	12-1	2013	Mon	V DKSL (x3) DE ALSK (x2) V (Cont'd) //3821	CW	(JPL)
3821	M89	12-1	2013	Mon	V DKSL (x3) DE ALSK V (x2) (Cont'd) //5644	CW	(JPL)
6840	M89	12-1	2120	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //4860	CW	(JPL)
4860	M89	12-1	2120	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
5588	M89	12-1	2317	Mon	V MW3D (x3) DE 2SLC (x2) (Cont'd	CW	(JPL)
5801	M89	12-1	2318	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
4860	M89	12-1	2320	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
6840	M89	12-1	2320	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //4860	CW	(JPL)
6793	M89	12-1	2325	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //8060	CW	(JPL)
8060	M89	12-1	2325	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //6793	CW	(JPL)
9131	M89	12-1	2330	Mon	V DKSL (x3) DE ALSK (x2) V (Cont'd)	CW	(JPL)
7602	M89	12-1	2336	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
5500	M89	13-1	0104	Tue	V 7NPE (x3) DE QV5B (x2) (Cont'd) //N/H	CW	(JPL)
9131	M89	13-1	0105	Tue	67AA ATNN 3UD. TTTA ATTT UTТА ND3. (Cont'd) AR QSL? HR WK NR 31	CW	(JPL)
6840	M89	13-1	0110	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //10640	CW	(JPL)
10640	M89	13-1	0110	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
8110	M89	13-1	0113	Tue	VV UGT COMM BT 6753/0945/Z98/3083 AR	CW	(JPL)
7602	M89	13-1	0127	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3642	M89	13-1	0127	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
10208	M89	13-1	0140	Tue	R 7G NR 050 CK 99 58 0113 ..39 RMKS 4496 TO 4440 K	CW	(JPL)
7620	M89	13-1	0152	Tue	MSG NR 12. CK .9 94 11.. 093. RMKS .84.. 460 =	CW	(JPL)
8527	M89	13-1	0158	Tue	CQ (x3) DE DP91 (x2) V (Cont'd) //6456	CW	(JPL)
6421	M89	13-1	0201	Tue	/LZ../5460/.385 AR AGN	CW	(JPL)
6456	M89	13-1	0203	Tue	CQ (x3) DE DP91 (x2) V HR NIL SK GB //8527	CW	(JPL)
8110	M89	13-1	0352	Tue	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
5801	M89	13-1	0404	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
10180	M89	13-1	0404	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
6421	M89	13-1	0931	Tue	V DKSL (x3) DE ALSK (x2) V (Cont'd) //9131	CW	(JPL)
9131	M89	13-1	0931	Tue	V DKSL (x3) DE ALSK (x2) V (Cont'd) //6421	CW	(JPL)
8110	M89	13-1	0934	Tue	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
8060	M89	13-1	0937	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //6793 and 4532	CW	(JPL)
4532	M89	13-1	0937	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //8060 and 6793	CW	(JPL)
6793	M89	13-1	0937	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //8060 and 4532	CW	(JPL)
10180	M89	13-1	0943	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
5801	M89	13-1	0943	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
8527	M89	13-1	0958	Tue	CQ (x3) DE DP91 (x2) V (Cont'd)	CW	(JPL)
4860	M89	13-1	1410	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
6840	M89	13-1	1410	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //4860	CW	(JPL)
3777	M89	13-1	1411	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	13-1	1411	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
4532	M89	13-1	1415	Tue	8/A/30..AR UGT COMM BT 4./5543/5../0.1.....6Z/.6.0/6.. AGN	CW	(JPL)
5555	M89	13-1	1423	Tue	7G TR 23/C/ / CX CCK CK 55 15 0112 1500 (see N&O 208)	CW	(JPL)
3821	M89	13-1	1522	Tue	V DKSL (x3) DE ALSK (x2) V (Cont'd)	CW	(JPL)
3777	M89	13-1	1525	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd)	CW	(JPL)
3642	M89	13-1	1528	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
3597	M89	13-1	1529	Tue	i.p. AR YRG7 K K AS 2N5W K K AS 6AMN 6AMN K K	CW	(JPL)
3330	M89	13-1	1540	Tue	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
4860	M89	13-1	2010	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
6840	M89	13-1	2010	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //4860	CW	(JPL)
3330	M89	13-1	2020	Tue	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
4532	M89	13-1	2029	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3777	M89	13-1	2029	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
3642	M89	13-1	2037	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)

Freq.	Code	Date	UTC	Day	Remarks	Mode	Contributor
7602	M89	13-1	2037	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
4131	M89	13-1	2039	Tue	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
3821	M89	13-1	2231	Tue	V DKSL (x3) DE ALSK (x2) V (Cont'd) //5644	CW	(JPL)
5644	M89	13-1	2231	Tue	V DKSL (x3) DE ALSK (x2) V (Cont'd) //3821	CW	(JPL)
8060	M89	14-1	0043	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd)	CW	(JPL)
9131	M89	14-1	0047	Wed	V DKSL (x3) DE ALSK (x2) V (Cont'd)	CW	(JPL)
7777	M89	14-1	0048	Wed	i.p. NR 05/EX 0848 RMKS 3729 TO 3722 = (see N&O 208)	CW	(JPL)
10640	M89	14-1	0120	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
6840	M89	14-1	0120	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //10640	CW	(JPL)
3642	M89	14-1	0127	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	14-1	0127	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
4131	M89	14-1	0128	Wed	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
6544	M89	14-1	0139	Wed	(i.p. AR R QSL 0940 QSL 0940 K SK SK	CW	(JPL)
5801	M89	14-1	0146	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
10180	M89	14-1	0146	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
8527	M89	14-1	0158	Wed	CQ (x3) DE DP91 (x2) V (Cont'd) //6456	CW	(JPL)
6456	M89	14-1	0203	Wed	CQ (x3) DE DP91 (x2) V HR NIL SK GB //8527	CW	(JPL)
3642	M89	14-1	1700	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
4532	M89	14-1	1704	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3777	M89	14-1	1704	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
5644	M89	14-1	1708	Wed	V DKSL (x3) DE ALSK (x2) V (Cont'd)	CW	(JPL)
6840	M89	14-1	1720	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K	CW	(JPL)
5177	M89	14-1	1720	Wed	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
3642	M89	15-1	0112	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	15-1	0112	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
9131	M89	15-1	0116	Thu	V DKSL (x3) DE ALSK (x2) V (Cont'd)	CW	(JPL)
4131	M89	15-1	0118	Thu	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
8527	M89	15-1	0159	Thu	CQ (x3) DE DP91 (x2) V HR NIL SK GB //6456	CW	(JPL)
6456	M89	15-1	0203	Thu	CQ (x3) DE DP91 (x2) V HR NIL SK GB //8527	CW	(JPL)
3330	M89	15-1	1641	Thu	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
4532	M89	15-1	1644	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3777	M89	15-1	1644	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
3821	M89	15-1	1646	Thu	V DKSL (x3) DE ALSK (x2) V (Cont'd) //5644	CW	(JPL)
5644	M89	15-1	1646	Thu	V DKSL (x3) DE ALSK (x2) V (Cont'd) //3821	CW	(JPL)
3642	M89	15-1	1650	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
4131	M89	15-1	1651	Thu	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
5564	M89	15-1	1655	Thu	i.p. III BT UTA6 NDDA N7U7 5NT5 543A N64D (Cont'd)	CW	(JPL)
3330	M89	15-1	2156	Thu	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3642	M89	15-1	2157	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
3777	M89	15-1	2200	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	15-1	2200	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
5644	M89	15-1	2202	Thu	V DKSL (x3) DE ALSK (x2) V (Cont'd) //3821	CW	(JPL)
3821	M89	15-1	2202	Thu	V DKSL (x3) DE ALSK (x2) V (Cont'd) //5644	CW	(JPL)
3642	M89	15-1	2206	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	15-1	2206	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3821	M89	15-1	2208	Thu	V DKSL (x3) DE ALSK (x2) V (Cont'd) //5644	CW	(JPL)
5644	M89	15-1	2208	Thu	V DKSL (x3) DE ALSK (x2) V (Cont'd) //3821	CW	(JPL)
4131	M89	15-1	2211	Thu	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
5588	M89	15-1	2337	Thu	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
5564	M89	15-1	2338	Thu	i.p. 3436 D5DT 4336 5347 DT73 3AST ? 3A4U TT5N (Cont'd)	CW	(JPL)
5588	M89	16-1	0001	Fri	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
5341	M89	16-1	0004	Fri	(i.p. \E\ NR 751 // RMKS CQ = .S1/QR0 AR	CW	(JPL)
5270	M89	16-1	0007	Fri	(i.p. R RPT 66W K. NRPT 66W U189 3189 K	CW	(JPL)
8527	M89	16-1	0202	Fri	CQ (x3) DE DP91 (x2) V HR NIL SK GB	CW	(JPL)
6246	M89	16-1	0217	Fri	i.p. 24 0116 0950 RMKS 2949451 TO 2949453 1AA =	CW	(JPL)
10180	M89	16-1	0227	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
5801	M89	16-1	0227	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
3821	M89	16-1	0235	Fri	V DKSL (x3) DE ALSK (x2) V (Cont'd) //5644	CW	(JPL)
9131	M89	16-1	0235	Fri	V DKSL (x3) DE ALSK (x2) V (Cont'd)	CW	(JPL)
5644	M89	16-1	0235	Fri	V DKSL (x3) DE ALSK (x2) V (Cont'd) //3821	CW	(JPL)
7712	M89	16-1	0243	Fri	i.p. 190CW190DWC. T R K. R J90CE DE QSA? QSA 4 QSA 5	CW	(JPL)
5177	M89	16-1	0305	Fri	i.p. 5341 6201 5320 5374 = 74NN A3UT 4453 6NAD 743A TNU3 54D3 (Cont'd)	CW	(JPL)

Freq.	Code	Date	UTC	Day	Remarks	Mode	Contributor
6456	M89	16-1	1002	Fri	CQ (x3) DE DP91 (x2) V HR NIL SK GB //8527	CW	(JPL)
8527	M89	16-1	1002	Fri	CQ (x3) DE DP91 (x2) V (Cont'd) //6456	CW	(JPL)
5177	M89	16-1	1011	Fri	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
9131	M89	16-1	1016	Fri	V DKSL (x3) DE ALSK (x2) V (Cont'd) //10947	CW	(JPL)
10947	M89	16-1	1016	Fri	V DKSL (x3) DE ALSK (x2) V (Cont'd) //9131	CW	(JPL)
6840	M89	16-1	1020	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //10640	CW	(JPL)
10640	M89	16-1	1020	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
5801	M89	16-1	1025	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
10180	M89	16-1	1025	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
5588	M89	16-1	1026	Fri	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
5545	M89	16-1	1026	Fri	i.p. 7529 K. R = 7529 AR K. R HR 7G GA K	CW	(JPL)
5588	M89	16-1	1034	Fri	i.p. III = 4654 734A 674A U665 D5U4 (Cont'd)	CW	(JPL)
5644	M89	16-1	1052	Fri	V DKSL (x3) DE ALSK (x2) V (Cont'd)	CW	(JPL)
4532	M89	16-1	1057	Fri	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3777	M89	16-1	1057	Fri	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
3330	M89	16-1	1549	Fri	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3642	M89	16-1	1551	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	16-1	1551	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3777	M89	16-1	1552	Fri	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	16-1	1552	Fri	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
4131	M89	16-1	1555	Fri	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
4131	M89	16-1	1703	Fri	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
5431	M89	16-1	1714	Fri	i.p. 3754 DT3D N6N7 N53T (Cont'd)	CW	(JPL)
6840	M89	17-1	0020	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //4860	CW	(JPL)
4860	M89	17-1	0020	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
6793	M89	17-1	0026	Sat	V M8JF (x3) DE RIS9 (x2) (Cont'd) //8060	CW	(JPL)
8060	M89	17-1	0026	Sat	V M8JF (x3) DE RIS9 (x2) (Cont'd) //6793	CW	(JPL)
10947	M89	17-1	0028	Sat	V DKSL (x3) DE ALSK (x2) V (Cont'd) //9131	CW	(JPL)
9131	M89	17-1	0028	Sat	V DKSL (x3) DE ALSK (x2) V (Cont'd) //10947	CW	(JPL)
3642	M89	17-1	0036	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
3330	M89	17-1	1349	Sat	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
7602	M89	17-1	1351	Sat	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
3821	M89	17-1	1352	Sat	V DKSL (x3) DE ALSK (x2) V (Cont'd) //5644	CW	(JPL)
5644	M89	17-1	1352	Sat	V DKSL (x3) DE ALSK (x2) V (Cont'd) //3821	CW	(JPL)
4532	M89	17-1	1353	Sat	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3777	M89	17-1	1353	Sat	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
3642	M89	18-1	1818	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	18-1	1818	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
5644	M89	18-1	1819	Sun	V DKSL (x3) DE ALSK (x2) V (Cont'd) //3821	CW	(JPL)
3821	M89	18-1	1819	Sun	V DKSL (x3) DE ALSK (x2) V (Cont'd) //5644	CW	(JPL)
4860	M89	18-1	1820	VVV	(x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
6840	M89	18-1	1820	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //4860	CW	(JPL)
3777	M89	18-1	1826	Sun	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	18-1	1826	Sun	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3330	M89	18-1	1827	Sun	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
4131	M89	18-1	1828	Sun	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
4497	M89	18-1	1830	Sun	i.p. III = 3.N7 5643 544N ANT2 6UUD (Cont'd)	CW	(JPL)
5588	M89	18-1	2310	Sun	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3642	M89	18-1	2311	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
6793	M89	18-1	2312	Sun	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532 and 8060	CW	(JPL)
4532	M89	18-1	2312	Sun	V M8JF (x3) DE RIS9 (x2) (Cont'd) //6793 and 8060	CW	(JPL)
4532	M89	18-1	2312	Sun	V M8JF (x3) DE RIS9 (x2) (Cont'd) //6793 and 8060	CW	(JPL)
8060	M89	18-1	2312	Sun	V M8JF (x3) DE RIS9 (x2) (Cont'd) //6793 and 4532	CW	(JPL)
4860	M89	18-1	2320	VVV	(x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
6840	M89	18-1	2320	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //4860	CW	(JPL)
4131	M89	18-1	2325	Sun	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
9131	M89	19-1	0358	Mon	V DKSL (x3) DE ALSK (x2) V (Cont'd) //10947	CW	(JPL)
10947	M89	19-1	0358	Mon	V DKSL (x3) DE ALSK (x2) V (Cont'd) //9131	CW	(JPL)
8110	M89	19-1	0404	Mon	V 7NPE (x3) DE QV5B (x2) V (Cont'd)	CW	(JPL)
10180	M89	19-1	0407	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
5801	M89	19-1	0407	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
6840	M89	19-1	0420	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //10640	CW	(JPL)

Freq.	Code	Date	UTC	Day	Remarks	Mode	Contributor
10640	M89	19-1	0420	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
6840	M89	19-1	1020	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //10640	CW	(JPL)
10640	M89	19-1	1020	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
3330	M89	19-1	1026	Mon	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
10947	M89	19-1	1027	Mon	V DKSL (x3) DE ALSK (x2) V (Cont'd) //9131	CW	(JPL)
9131	M89	19-1	1028	Mon	V DKSL (x3) DE ALSK (x2) V (Cont'd) //10947	CW	(JPL)
4532	M89	19-1	1029	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3777	M89	19-1	1029	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
5500	M89	19-1	1030	Mon	V 7NPE (x3) DE QV5B (x2) V (Cont'd)	CW	(JPL)
6839	M89	19-1	1048	Mon	(i.p. TAD4 T476 4TAA AND3 6ATN UUD3 53UN (Cont'd)	CW	(JPL)
10180	M89	19-1	1135	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
5801	M89	19-1	1135	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
5177	M89	19-1	1140	Mon	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
3821	M89	19-1	1144	Mon	V DKSL (x3) DE ALSK (x2) V (Cont'd) //5644	CW	(JPL)
5644	M89	19-1	1144	Mon	V DKSL (x3) DE ALSK (x2) V (Cont'd) //3821	CW	(JPL)
3330	M89	19-1	1458	Mon	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3777	M89	19-1	1459	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	19-1	1459	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
5644	M89	19-1	1500	Mon	V DKSL (x3) DE ALSK (x2) V (Cont'd) //3821	CW	(JPL)
3821	M89	19-1	1500	Mon	V DKSL (x3) DE ALSK (x2) V (Cont'd) //5644	CW	(JPL)
4131	M89	19-1	1508	Mon	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
5500	M89	19-1	1509	Mon	V 7NPE (x3) DE QV5B (x2) V (Cont'd)	CW	(JPL)
3642	M89	19-1	1517	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	19-1	1517	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
4131	M89	19-1	1519	Mon	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
6840	M89	19-1	1520	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K	CW	(JPL)
3642	M89	19-1	1818	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	19-1	1818	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
6840	M89	19-1	1820	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K	CW	(JPL)
3330	M89	19-1	2103	Mon	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3642	M89	19-1	2104	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	19-1	2104	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3777	M89	19-1	2105	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	19-1	2105	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3821	M89	19-1	2106	Mon	V DKSL (x3) DE ALSK (x2) V (Cont'd) //5644	CW	(JPL)
5644	M89	19-1	2106	Mon	V DKSL (x3) DE ALSK (x2) V (Cont'd) //3821	CW	(JPL)
6840	M89	19-1	2120	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //4860	CW	(JPL)
4860	M89	19-1	2120	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
10947	M89	20-1	0134	Tue	V DKSL (x3) DE ALSK (x2) V (Cont'd) //9131	CW	(JPL)
9131	M89	20-1	0134	Tue	V DKSL (x3) DE ALSK (x2) V (Cont'd) //10947	CW	(JPL)
8110	M89	20-1	0136	Tue	V 7NPE (x3) DE QV5B (x2) V (Cont'd)	CW	(JPL)
6793	M89	20-1	0137	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd)	CW	(JPL)
7602	M89	20-1	0142	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3642	M89	20-1	0142	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
4131	M89	20-1	0143	Tue	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
6456	M89	20-1	0207	Tue	CQ (x3) DE DP91 (x2) V HR NIL SK GB	CW	(JPL)
5644	M89	20-1	1245	Tue	V DKSL (x3) DE ALSK (x2) V (Cont'd) //3821	CW	(JPL)
3821	M89	20-1	1245	Tue	V DKSL (x3) DE ALSK (x2) V (Cont'd) //5644	CW	(JPL)
3330	M89	20-1	1248	Tue	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
5500	M89	20-1	1251	Tue	V 7NPE (x3) DE QV5B (x2) V (Cont'd)	CW	(JPL)
4532	M89	20-1	1252	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3777	M89	20-1	1252	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4444	M89	20-1	1255	Tue	i.p. 4573 3DAT 54A3 5UN7 576N (Cont'd)	CW	(JPL)
3642	M89	20-1	1337	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
4131	M89	20-1	1652	Tue	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
7602	M89	20-1	1654	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3642	M89	20-1	1654	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
6840	M89	21-1	1320	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K	CW	(JPL)
3330	M89	21-1	1326	Wed	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
7602	M89	21-1	1327	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3642	M89	21-1	1327	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
3777	M89	21-1	1328	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)

Freq.	Code	Date	UTC	Day	Remarks	Mode	Contributor
4532	M89	21-1	1328	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3821	M89	21-1	1330	Wed	V DKSL (x3) DE ALSK (x2) V (Cont'd)	CW	(JPL)
9131	M89	21-1	1330	Wed	i.p. DD7U D43D D44D 5UDT T7ND DD35 (Cont'd)	CW	(JPL)
4131	M89	21-1	1339	Wed	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
3330	M89	21-1	1937	Wed	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
7602	M89	21-1	1938	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3642	M89	21-1	1938	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
3777	M89	21-1	1940	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	21-1	1940	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3821	M89	21-1	1941	Wed	V DKSL (x3) DE ALSK (x2) V (Cont'd)	CW	(JPL)
4131	M89	21-1	2200	Wed	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
6793	M89	21-1	2310	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532 and 8060	CW	(JPL)
4532	M89	21-1	2310	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //6793 and 8060	CW	(JPL)
8060	M89	21-1	2310	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //6793 and 4532	CW	(JPL)
6840	M89	21-1	2320	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //4860	CW	(JPL)
4860	M89	21-1	2320	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
3333	M89	22-1	1233	Thu	i.p. 7D5A U37D D7U3 DUN3 53TN (Cont'd)	CW	(JPL)
3330	M89	22-1	1244	Thu	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3777	M89	22-1	1246	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	22-1	1246	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3821	M89	22-1	1247	Thu	V DKSL (x3) DE ALSK (x2) V (Cont'd) //5644	CW	(JPL)
5644	M89	22-1	1247	Thu	V DKSL (x3) DE ALSK (x2) V (Cont'd) //3821	CW	(JPL)
7602	M89	22-1	1351	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3642	M89	22-1	1351	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
4131	M89	22-1	1357	Thu	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
3330	M89	22-1	1601	Thu	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3642	M89	22-1	1606	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
3650	M89	22-1	1606	Thu	(i.p. AR K. R ... K. R RPK R 5.47 5.47 K. R GA QSA 2 GA	CW	(JPL)
3777	M89	22-1	1613	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd)	CW	(JPL)
3821	M89	22-1	1614	Thu	V DKSL (x3) DE ALSK (x2) V (Cont'd)	CW	(JPL)
5588	M89	22-1	2309	Thu	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
6793	M89	22-1	2319	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd) //8060	CW	(JPL)
8060	M89	22-1	2319	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd) //6793	CW	(JPL)
6840	M89	22-1	2320	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //4860	CW	(JPL)
4860	M89	22-1	2320	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
4131	M89	22-1	2322	Thu	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
9131	M89	22-1	2323	Thu	V DKSL (x3) DE ALSK (x2) V (Cont'd) //10947	CW	(JPL)
10947	M89	22-1	2323	Thu	V DKSL (x3) DE ALSK (x2) V (Cont'd) //9131	CW	(JPL)
10947	M89	23-1	0517	Fri	V DKSL DE ALSK V COMM 1400/L33463/5463/5980 AGN	CW	(JPL)
6840	M89	23-1	0520	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //10640	CW	(JPL)
10640	M89	23-1	0520	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA? K //6840	CW	(JPL)
5801	M89	23-1	0526	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
10180	M89	23-1	0526	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
9131	M89	23-1	0528	Fri	V DKSL (x3) DE ALSK (x2) V (Cont'd) //10947	CW	(JPL)
10947	M89	23-1	0528	Fri	V DKSL (x3) DE ALSK (x2) V (Cont'd) //9131	CW	(JPL)
3330	M89	23-1	1330	Fri	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3550	M89	23-1	1332	Fri	i.p. QSL 2130 K R R USB R R	CW	(JPL)
3642	M89	23-1	1336	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
3777	M89	23-1	1345	Fri	V M8JF (x3) DE RIS9 (x2) (Cont'd)	CW	(JPL)
3795	M89	23-1	1347	Fri	i.p. DA3T 5ATU 4TNU 45N. 57AT T? 4NNU T6A4 7NTT (see N&O 208)	CW	(JPL)
3821	M89	23-1	1403	Fri	V DKSL (x3) DE ALSK (x2) V (Cont'd)	CW	(JPL)
4532	M89	23-1	1558	Fri	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3777	M89	23-1	1558	Fri	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
5644	M89	23-1	1559	Fri	V DKSL (x3) DE ALSK (x2) V (Cont'd) //3821	CW	(JPL)
3821	M89	23-1	1559	Fri	V DKSL (x3) DE ALSK (x2) V (Cont'd) //5644	CW	(JPL)
3330	M89	23-1	1756	Fri	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
7602	M89	23-1	1757	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3642	M89	23-1	1757	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
3777	M89	23-1	1800	Fri	V M8JF DE RIS9 NT37 6A47 T7D4 76U7 D745 37D6 54T7 (Cont'd) AR	CW	(JPL)
3821	M89	23-1	1805	Fri	V DKSL (x3) DE ALSK (x2) V (Cont'd) //5644	CW	(JPL)
5644	M89	23-1	1805	Fri	V DKSL (x3) DE ALSK (x2) V (Cont'd) //3821	CW	(JPL)
6840	M89	25-1	2220	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)

Freq.	Code	Date	UTC	Day	Remarks	Mode	Contributor
4860	M89	25-1	2220	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
3330	M89	25-1	2225	Sun	i.p. UN56 S.3DU N34T AUT6 37D4 NA6T (Cont'd) AR AR V MW3D DE 2SLC	CW	(JPL)
3642	M89	25-1	2232	Sun	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
4532	M89	25-1	2233	Sun	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3777	M89	25-1	2233	Sun	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
3821	M89	25-1	2234	Sun	V DKSL (x3) DE ALSK (x2) V (Cont'd) //5644	CW	(JPL)
5644	M89	25-1	2234	Sun	V DKSL (x3) DE ALSK (x2) V (Cont'd) //3821	CW	(JPL)
4225	M89	25-1	2236	Sun	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
9131	M89	26-1	0937	Mon	V DKSL (x3) DE ALSK (x2) V (Cont'd) //10947	CW	(JPL)
10947	M89	26-1	0937	Mon	V DKSL (x3) DE ALSK (x2) V (Cont'd) //9131	CW	(JPL)
5801	M89	26-1	0939	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
10180	M89	26-1	0939	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
8060	M89	26-1	0942	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //6793	CW	(JPL)
6793	M89	26-1	0942	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //8060	CW	(JPL)
5588	M89	26-1	0945	Mon	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
6456	M89	26-1	0959	Mon	CQ (x3) DE DP91 (x2) V (Cont'd) //8527	CW	(JPL)
8527	M89	26-1	0959	Mon	CQ (x3) DE DP91 (x2) V HR NIL SK GB //6456	CW	(JPL)
5256	M89	26-1	1013	Mon	i.p. 7G GA HR BSZ GA NR 024/EX CK 91. 7 0126 .83EEE	CW	(JPL)
6688	M89	26-1	1013	Mon	i.p. 7TU7 DU73 4UT3 5NU3 76A3 737D (Cont'd)	CW	(JPL)
3300	M89	26-1	1437	Mon	i.p. UNUT T45D 3N46 7U5N DADT (Cont'd)	CW	(JPL)
4532	M89	26-1	1448	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3777	M89	26-1	1448	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
5644	M89	26-1	1449	Mon	V DKSL (x3) DE ALSK (x2) V (Cont'd) //3821	CW	(JPL)
3821	M89	26-1	1449	Mon	V DKSL (x3) DE ALSK (x2) (Cont'd) //5644	CW	(JPL)
3642	M89	26-1	1500	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	26-1	1500	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
4131	M89	26-1	1503	Mon	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
3300	M89	26-1	2155	Mon	V MW3D (x3) DE 2SLC (Cont'd)	CW	(JPL)
3777	M89	26-1	2158	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	26-1	2158	Mon	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3821	M89	26-1	2200	Mon	V DKSL (x3) DE ALSK (x2) (Cont'd) //5644	CW	(JPL)
5644	M89	26-1	2200	Mon	V DKSL (x3) DE ALSK (x2) V (Cont'd) //3821	CW	(JPL)
7602	M89	26-1	2221	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3642	M89	26-1	2221	Mon	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
4131	M89	26-1	2222	Mon	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
6839	M89	26-1	2230	Mon	V HER6 (x3) DE WU6L (x2) (Cont'd)	CW	(JPL)
4982	M89	26-1	2240	Mon	i.p. 5335 UA63 DT37 6U43 (Cont'd)	CW	(JPL)
9131	M89	27-1	0106	Tue	V DKSL (x3) DE ALSK (x2) V (Cont'd)	CW	(JPL)
8110	M89	27-1	0110	Tue	V 7NPE (x3) DE QV5B (x2) V (Cont'd)	CW	(JPL)
10640	M89	27-1	0120	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
6840	M89	27-1	0120	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
9131	M89	27-1	0144	Tue	NR 86 0945 RMKS 5463 TO 5730/5493 =	CW	(JPL)
10749	M89	27-1	0144	Tue	V DKSL (x3) DE ALSK (x2) V (Cont'd) //9131	CW	(JPL)
3642	M89	27-1	0154	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
4131	M89	27-1	0156	Tue	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
8527	M89	27-1	0158	Tue	CQ (x3) DE DP91 (x2) V (Cont'd) //6456	CW	(JPL)
6456	M89	27-1	0159	Tue	CQ (x3) DE DP91 (x2) V HR NIL SK GB (Cont'd) //8527	CW	(JPL)
10180	M89	27-1	0557	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
3777	M89	27-1	1306	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	27-1	1306	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3821	M89	27-1	1307	Tue	V DKSL (x3) DE ALSK (x2) (Cont'd) //5644	CW	(JPL)
5644	M89	27-1	1307	Tue	V DKSL (x3) DE ALSK (x2) (Cont'd) //3821	CW	(JPL)
3642	M89	27-1	1315	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	27-1	1315	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
4131	M89	27-1	1318	Tue	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
6840	M89	27-1	1320	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
6794	M89	27-1	1323	Tue	i.p. DATN 53T4 AT5U (Cont'd) AR K. QSL 2125 2125 K K (see N&O 208)	CW	(JPL)
6321	M89	27-1	1357	Tue	i.p. D7AU 5D56 76U7 6ATD DA4. (Cont'd)	CW	(JPL)
3300	M89	27-1	1456	Tue	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
4225	M89	27-1	1458	Tue	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW	(JPL)
3300	M89	27-1	2254	Tue	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3642	M89	27-1	2256	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)

Freq.	Code	Date	UTC	Day	Remarks	Mode	Contributor
7602	M89	27-1	2256	Tue	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3777	M89	27-1	2259	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	27-1	2259	Tue	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3821	M89	27-1	2300	Tue	V DKSL (x3) DE ALSK (x2) (Cont'd) //5644	CW	(JPL)
5644	M89	27-1	2300	Tue	V DKSL (x3) DE ALSK (x2) (Cont'd) //3821	CW	(JPL)
4597	M89	27-1	2303	Tue	i.p. R HR NR 14 K. R HR NR 01 K. NN NIL SK K GB K	CW	(JPL)
4131	M89	27-1	2303	Tue	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
5588	M89	27-1	2308	Tue	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
6456	M89	28-1	0200	Wed	CQ DE DP91 V PSE YK HR TC HR VRE QWK AHR NIL SK GB	CW	(JPL)
9131	M89	28-1	0901	Wed	V DKSL (x3) DE ALSK (x2) V (Cont'd)	CW	(JPL)
6793	M89	28-1	0903	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //8060	CW	(JPL)
8060	M89	28-1	0903	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //6793	CW	(JPL)
5555	M89	28-1	0905	Wed	i.p. 7G NR 42 CK 43 EEEEE 42 79 0128 1706 K (see N&O 208)	CW	(JPL)
6840	M89	28-1	0920	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
10640	M89	28-1	0920	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
6456	M89	28-1	0957	Wed	CQ (x3) DE DP91 (x2) V HR NIL SK GB	CW	(JPL)
3642	M89	28-1	1438	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
3300	M89	28-1	1449	Wed	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3642	M89	28-1	1453	Wed	i.p. RMKS 5319 TO 5111 5369 5164 5176 5592 5182 =	CW	(JPL)
3777	M89	28-1	1458	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd)	CW	(JPL)
3821	M89	28-1	1459	Wed	V DKSL (x3) DE ALSK (x2) (Cont'd)	CW	(JPL)
5644	M89	28-1	1604	Wed	V DKSL (x3) DE ALSK (x2) (Cont'd) //3821	CW	(JPL)
3821	M89	28-1	1604	Wed	V DKSL (x3) DE ALSK (x2) (Cont'd) //5644	CW	(JPL)
3525	M89	28-1	1607	Wed	i.p. 5D74 6T57 6T45 6UA7 TN36 7UTD 6SUA 4N6D (Cont'd)	CW	(JPL)
3300	M89	28-1	2007	Wed	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
7602	M89	28-1	2009	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3642	M89	28-1	2009	Wed	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
3777	M89	28-1	2011	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	28-1	2011	Wed	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
5644	M89	28-1	2012	Wed	V DKSL (x3) DE ALSK (x2) (Cont'd) //3821	CW	(JPL)
3821	M89	28-1	2012	Wed	V DKSL (x3) DE ALSK (x2) (Cont'd) //5644	CW	(JPL)
6840	M89	28-1	2020	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
4860	M89	28-1	2020	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
4131	M89	28-1	2028	Wed	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
8527	M89	29-1	0159	Thu	CQ (x3) DE DP91 (x2) V NIL SK GB //6456	CW	(JPL)
6456	M89	29-1	0200	Thu	CQ (x3) DE DP91 (x2) V (Cont'd) //8527	CW	(JPL)
10640	M89	29-1	0320	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
6840	M89	29-1	0320	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
10947	M89	29-1	0326	Thu	V DKSL (x3) DE ALSK (x2) V (Cont'd)	CW	(JPL)
10947	M89	29-1	0335	Thu	V DKSL (x3) DE ALSK (x2) V (Cont'd) //9131	CW	(JPL)
9131	M89	29-1	0335	Thu	V DKSL (x3) DE ALSK (x2) V (Cont'd) //10947	CW	(JPL)
7602	M89	29-1	0338	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3642	M89	29-1	0338	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
5801	M89	29-1	1004	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
10180	M89	29-1	1004	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
5177	M89	29-1	1005	Thu	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
6840	M89	29-1	1020	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
10640	M89	29-1	1020	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
5588	M89	29-1	1021	Thu	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3330	M89	29-1	1440	Thu	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
4532	M89	29-1	1441	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3777	M89	29-1	1441	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
3821	M89	29-1	1443	Thu	V DKSL (x3) DE ALSK (x2) V (Cont'd) //5644	CW	(JPL)
5644	M89	29-1	1443	Thu	V DKSL (x3) DE ALSK (x2) V (Cont'd) //3821	CW	(JPL)
3642	M89	29-1	1447	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
7602	M89	29-1	1447	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
4131	M89	29-1	1448	Thu	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
3330	M89	29-1	1829	Thu	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
7602	M89	29-1	1831	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3642	M89	29-1	1831	Thu	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
4532	M89	29-1	1835	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3757	CW	(JPL)
3757	M89	29-1	1835	Thu	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)

Freq.	Code	Date	UTC	Day	Remarks	Mode	Contributor
3821	M89	29-1	1837	Thu	V DKSL (x3) DE ALSK (x2) V (Cont'd) //5644	CW	(JPL)
5644	M89	29-1	1837	Thu	V DKSL (x3) DE ALSK (x2) V (Cont'd) //3821	CW	(JPL)
10749	M89	30-1	0147	Fri	V DKSL DKSL DKSL DE ALSK ALSK	CW	(MCO)
9131	M89	30-1	0317	Fri	V DKSL (x3) DE ALSK (x2) V (Cont'd) //10749	CW	(JPL)
10749	M89	30-1	0317	Fri	V DKSL (x3) DE ALSK (x2) V (Cont'd) //9131	CW	(JPL)
10640	M89	30-1	0320	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
6840	M89	30-1	0320	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
4131	M89	30-1	0325	Fri	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
5801	M89	30-1	0330	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //10180	CW	(JPL)
10180	M89	30-1	0330	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //5801	CW	(JPL)
6840	M89	30-1	1420	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
4860	M89	30-1	1420	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
3777	M89	30-1	1422	Fri	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532	CW	(JPL)
4532	M89	30-1	1422	Fri	V M8JF (x3) DE RIS9 (x2) (Cont'd) //3777	CW	(JPL)
3821	M89	30-1	1423	Fri	V DKSL (x3) DE ALSK (x2) V (Cont'd) //5644	CW	(JPL)
5644	M89	30-1	1423	Fri	V DKSL (x3) DE ALSK (x2) V (Cont'd) //3821	CW	(JPL)
3330	M89	30-1	1426	Fri	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
3642	M89	30-1	1430	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW	(JPL)
7602	M89	30-1	1430	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW	(JPL)
3642	M89	30-1	1430	Fri	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW	(JPL)
4131	M89	30-1	1432	Fri	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
4860	M89	30-1	1820	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
6840	M89	30-1	1820	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
3330	M89	30-1	2250	Fri	V MW3D (x3) DE 2SLC (x2) (Cont'd)	CW	(JPL)
6793	M89	30-1	2252	Fri	V M8JF (x3) DE RIS9 (x2) (Cont'd) //4532 and 8060	CW	(JPL)
8060	M89	30-1	2252	Fri	V M8JF (x3) DE RIS9 (x2) (Cont'd) //6793 and 4532	CW	(JPL)
4532	M89	30-1	2252	Fri	V M8JF (x3) DE RIS9 (x2) (Cont'd) //6793 and 8060	CW	(JPL)
5644	M89	30-1	2255	Fri	V DKSL (x3) DE ALSK (x2) V (Cont'd) //3821	CW	(JPL)
3821	M89	30-1	2255	Fri	V DKSL (x3) DE ALSK (x2) V (Cont'd) //5644	CW	(JPL)
4010	MC03	25-1	1510	Sun	Chinese Air Defense: AU34567DNT U3AA, AU34567DNT U3AU and time ticks	CW	(Token)
13527.7	MX	6-1	1732	Tue	Beacon "D" Sevastopol	CW	(AB)
10872.7	MX	6-1	1732	Tue	Beacon "D" Sevastopol	CW	(AB)
8494.9	MX	6-1	1733	Tue	Beacon "S" Sevoromorsk	CW	(AB)
8494.7	MX	6-1	1733	Tue	Beacon "D" Sevastopol	CW	(AB)
5153.9	MX	6-1	1734	Tue	Beacon "P" Kaliningrad	CW	(AB)
5153.7	MX	6-1	1734	Tue	Beacon "D" Sevastopol	CW	(AB)
5153.8	MX	6-1	1734	Tue	Beacon "P" Kaliningrad	CW	(AB)
3658	MX	6-1	1736	Tue	Beacon "V" Khiva	CW	(AB)
16332	MX	10-1	1022	Sat	Beacon "C" Moscow	CW	(AB)
20048	MX	10-1	1022	Sat	Beacon "C" Moscow	CW	(AB)
16331.7	MX	10-1	1022	Sat	Beacon "D" Sevastopol	CW	(AB)
16331.9	MX	10-1	1022	Sat	Beacon "S" Sevoromorsk	CW	(AB)
13528	MX	10-1	1023	Sat	Beacon "C" Moscow	CW	(AB)
13527.7	MX	10-1	1023	Sat	Beacon "D" Sevastopol	CW	(AB)
10871.7	MX	10-1	1023	Sat	Beacon "D" Sevastopol	CW	(AB)
10871.9	MX	10-1	1023	Sat	Beacon "S" Sevoromorsk	CW	(AB)
7038.7	MX	25-1	2036	Sun	Beacon "D" Sevastopol/Odessa	CW	(MPJ)
3594.2	MX	28-1	1452	Wed	Beacon "F" Vladivostok	CW	(JPL-Sib)
16388	POL	1-1	0730	Thu	Polish intel.	FSK 100/740	(AB)
16388	POL	1-1	0735	Thu	Polish intel.	FSK 100/740	(AB)
10359	POL	2-1	0655	Fri	Polish intel.	FSK 100/740	(AB)
10359	POL	2-1	0700	Fri	Polish intel.	FSK 100/740	(AB)
13575	POL	2-1	1405	Fri	Polish intel. Msg	FSK 100/740	(AB)
13575	POL	2-1	1410	Fri	Polish intel. Msg	FSK 100/740	(AB)
13575	POL	4-1	1405	Sun	Polish Intel. Msg	FSK 100/740	(AB)
13575	POL	4-1	1405	Sun	Polish Intel. Msg	FSK 100/740	(AB)
15915	POL	4-1	1525	Sun	Polish Intel. Null msg	FSK 100/740	(AB)
15915	POL	4-1	1530	Sun	Polish Intel. Null msg	FSK 100/740	(AB)
6836	POL	5-1	0800	Mon	Polish Intel.	FSK 100/740	(AB)
6836	POL	5-1	0805	Mon	Polish Intel.	FSK 100/740	(AB)
9370	POL	5-1	0845	Mon	Polish Intel. Null msg	FSK 100/740	(AB)
9370	POL	5-1	0850	Mon	Polish Intel. Null msg	FSK 100/740	(AB)

Freq.	Code	Date	UTC	Day	Remarks	Mode	Contributor
12630	POL	5-1	1000	Mon	Polish Intel. Null msg. ID 0765	FSK 100/500	(AB)
12630	POL	5-1	1005	Mon	Polish Intel. Null msg. ID 0765	FSK 100/500	(AB)
15915	POL	5-1	1525	Mon	Polish Intel. Msg	FSK 100/740	(AB)
15915	POL	5-1	1530	Mon	Polish Intel. Msg	FSK 100/740	(AB)
5463	POL	6-1	1520	Tue	Polish Intel. ID 0797	FSK 100/625	(AB)
9370	POL	7-1	0845	Wed	Polish Intel.	FSK 100/625	(AB)
9370	POL	7-1	0850	Wed	Polish Intel.	FSK 100/625	(AB)
5815	POL	7-1	1005	Wed	Polish Intel. Msg	FSK 100/625	(AB)
5815	POL	7-1	1010	Wed	Polish Intel. Msg	FSK 100/625	(AB)
8102	POL	7-1	1030	Wed	Polish Intel. Msg	FSK 100/625	(AB)
8102	POL	7-1	1035	Wed	Polish Intel. Msg	FSK 100/625	(AB)
15915	POL	7-1	1140	Wed	Polish intel. Msg	FSK 100/625	(AB)
15915	POL	7-1	1145	Wed	Polish intel. Msg	FSK 100/625	(AB)
16388	POL	8-1	0735	Thu	Polish Intel. Msg	FSK 100/625	(AB)
6836	POL	8-1	0800	Thu	Polish Intel. Msg	FSK 100/625	(AB)
6836	POL	8-1	0800	Thu	Polish Intel. Msg	FSK 100/625	(AB)
12630	POL	8-1	1005	Thu	Polish intel. Null msg	FSK 100/625	(AB)
15915	POL	8-1	1140	Thu	Polish intel.	FSK 100/625	(AB)
15915	POL	8-1	1145	Thu	Polish intel.	FSK 100/625	(AB)
10359	POL	9-1	0700	Fri	Polish intel.	FSK 100/625	(AB)
9576	POL	9-1	1005	Fri	Polish intel. Null msg	FSK 100/740	(AB)
9576	POL	9-1	1010	Fri	Polish intel. Null msg	FSK 100/740	(AB)
13575	POL	9-1	1405	Fri	Polish intel. Null msg	FSK 100/625	(AB)
13575	POL	9-1	1410	Fri	Polish intel. Null msg	FSK 100/625	(AB)
5815	POL	10-1	1005	Sat	Polish Intel.	FSK 100/625	(AB)
5815	POL	10-1	1010	Sat	Polish Intel.	FSK 100/625	(AB)
4840	POL	10-1	1430	Sat	Polish intel.	FSK 100/625	(AB)
4840	POL	10-1	1435	Sat	Polish intel.	FSK 100/625	(AB)
6836	POL	12-1	0800	Mon	Polish intel. Msg	FSK 100/625	(AB)
6836	POL	12-1	0805	Mon	Polish intel. Msg	FSK 100/625	(AB)
9370	POL	12-1	0845	Mon	Polish intel.	FSK 100/740	(AB)
9370	POL	12-1	0850	Mon	Polish intel.	FSK 100/740	(AB)
12630	POL	12-1	1000	Mon	Polish intel.	FSK 100/740	(AB)
12630	POL	12-1	1005	Mon	Polish intel.	FSK 100/740	(AB)
15915	POL	12-1	1525	Mon	Polish intel. Null msg	FSK 100/625	(AB)
15915	POL	12-1	1530	Mon	Polish intel. Null msg	FSK 100/625	(AB)
16388	POL	13-1	0735	Tue	Polish Intel.	FSK 100/625	(AB)
16388	POL	13-1	0740	Tue	Polish Intel.	FSK 100/625	(AB)
9576	POL	13-1	1005	Tue	Polish Intel. Msg	FSK 100/740	(AB)
9576	POL	13-1	1010	Tue	Polish Intel. Msg	FSK 100/740	(AB)
8102	POL	13-1	1035	Tue	Polish intel.	FSK 100/625	(AB)
5463	POL	13-1	1520	Tue	Polish Intel. Null msg	FSK 100/625	(AB)
5463	POL	13-1	1525	Tue	Polish Intel. Null msg	FSK 100/625	(AB)
5815	POL	14-1	1010	Wed	Polish Intel.	FSK 100/625	(AB)
8102	POL	14-1	1030	Wed	Polish Intel.	FSK 100/625	(AB)
8102	POL	14-1	1030	Wed	Polish Intel.	FSK 100/625	(AB)
16388	POL	15-1	0730	Thu	Polish Intel.	FSK 100/625	(AB)
16388	POL	15-1	0735	Thu	Polish Intel.	FSK 100/625	(AB)
12630	POL	15-1	1000	Thu	Polish Intel.	FSK 100/625	(AB)
12630	POL	15-1	1005	Thu	Polish Intel.	FSK 100/625	(AB)
15915	POL	15-1	1140	Thu	Polish Intel. Null msg	FSK 100/625	(AB)
15915	POL	15-1	1145	Thu	Polish Intel. Null msg	FSK 100/625	(AB)
10359	POL	16-1	0655	Fri	Polish intel. Msg	FSK 100/625	(AB)
10359	POL	16-1	0700	Fri	Polish intel. Msg	FSK 100/625	(AB)
9576	POL	16-1	1010	Fri	Polish Intel. Msg	FSK 100/625	(AB)
13575	POL	16-1	1405	Fri	Polish Intel.	FSK 100/625	(AB)
13575	POL	16-1	1405	Fri	Polish Intel.	FSK 100/625	(AB)
13575	POL	18-1	1405	Sun	Polish Intel. Null msg	FSK 100/625	(AB)
13575	POL	18-1	1410	Sun	Polish Intel. Null msg	FSK 100/625	(AB)
10359	POL	20-1	0655	Tue	Polish Intel.	FSK 100/625	(AB)
10359	POL	20-1	0700	Tue	Polish Intel.	FSK 100/625	(AB)
16388	POL	20-1	0730	Tue	Polish Intel.	FSK 100/625	(AB)

Freq.	Code	Date	UTC	Day	Remarks	Mode	Contributor
16388	POL	20-1	0735	Tue	Polish Intel.	FSK 100/625	(AB)
5815	POL	21-1	1005	Wed	Polish Intel. Null msg	FSK 100/625	(AB)
8102	POL	21-1	1030	Wed	Polish Intel. Null msg	FSK 100/625	(AB)
8102	POL	21-1	1035	Wed	Polish Intel. Null msg	FSK 100/625	(AB)
15915	POL	21-1	1140	Wed	Polish Intel. Msg	FSK 100/625	(AB)
15915	POL	21-1	1145	Wed	Polish Intel. Msg	FSK 100/625	(AB)
4840	POL	21-1	1435	Wed	Polish Intel.	FSK 100/625	(AB)
16388	POL	22-1	0735	Thu	Polish Intel. Null msg	FSK 100/625	(AB)
12630	POL	22-1	1000	Thu	Polish Intel. Null msg	FSK 100/625	(AB)
12630	POL	22-1	1005	Thu	Polish Intel. Null msg	FSK 100/625	(AB)
7499	POL	23-1	0900	Fri	Polish Intel. Msg	FSK 100/625	(AB)
7499	POL	23-1	0900	Fri	Polish Intel. Msg	FSK 100/625	(AB)
4840	POL	24-1	1435	Sat	Polish Intel.	FSK 100/625	(AB)
6836	POL	25-1	0800	Sun	Polish Intel.	FSK 100/625	(AB)
6836	POL	25-1	0805	Sun	Polish Intel.	FSK 100/625	(AB)
9370	POL	25-1	0845	Sun	Polish Intel. Msg	FSK 100/625	(AB)
9370	POL	25-1	0850	Sun	Polish Intel. Msg	FSK 100/625	(AB)
12630	POL	25-1	1000	Sun	Polish Intel. Msg	FSK 100/625	(AB)
12630	POL	25-1	1005	Sun	Polish Intel. Msg	FSK 100/625	(AB)
7772	POL	27-1	0635	Tue	Polish Intel. Msg	FSK 100/625	(AB)
10359	POL	27-1	0655	Tue	Polish Intel. Null msg	FSK 100/625	(AB)
10359	POL	27-1	0700	Tue	Polish Intel. Null msg	FSK 100/625	(AB)
16388	POL	27-1	0830	Tue	Polish Intel. Null msg	FSK 100/625	(AB)
16388	POL	27-1	0835	Tue	Polish Intel. Null msg	FSK 100/625	(AB)
5463	POL	27-1	1520	Tue	Polish Intel.	FSK 100/625	(AB)
5815	POL	28-1	1005	Wed	Polish Intel.	FSK 100/625	(AB)
8102	POL	28-1	1030	Wed	Polish Intel.	FSK 100/625	(AB)
8102	POL	28-1	1035	Wed	Polish Intel.	FSK 100/625	(AB)
15915	POL	28-1	1050	Wed	Polish Intel.	FSK 100/625	(AB)
15915	POL	28-1	1055	Wed	Polish Intel.	FSK 100/625	(AB)
6836	POL	29-1	0805	Thu	Polish Intel.	FSK 100/625	(AB)
12630	POL	29-1	1000	Thu	Polish Intel.	FSK 100/625	(AB)
12630	POL	29-1	1005	Thu	Polish Intel.	FSK 100/625	(AB)
13575	POL	30-1	1405	Fri	Polish intel.	FSK 100/625	(AB)
13575	POL	30-1	1410	Fri	Polish intel.	FSK 100/625	(AB)
18030	RAv	13-1	1300	Tue	Korsar clg Polis, Proselok, Davelnye, Klarinetist, Poletnoj	USB	(AB)
4038	RMv	6-1	1722	Tue	Test 10-count	USB	(BCI)
13086	RMv	26-1	0925	Mon	Karavan Ya Progres (RC and ending)	USB	(JU)
5821	S06	2-1	2100	Fri	392 392 392 00000	USB	(Eric)
4047	S06	3-1	2000	Sat	738 0	USB	(HFD)
16243	S06	15-1	0830	Thu	842 571 30 11802 61610 73066 ... 27453 75948 14327 571 30 00000	USB	(Avare)
7897	S06	16-1	2000	Fri	392 392 392 00000	USB	(AB)
5821	S06	16-1	2100	Fri	392 392 392 00000	USB	(AB)
15721	S06	26-1	0400	Mon	480 396 50 09709 08053 24983 ... 35694 17135 15567 396 50 00000	USB	(AB)
16243	S06	30-1	0830	Fri	842 .07 .. 82262 06487 37272 19442 96 29	USB	(AB)
20002	S06s	1-1	0900	Thu	167 493 5 65136	USB	(HFD)
13565	S06s	1-1	0910	Thu	167	USB	(HFD)
13130	S06s	1-1	1000	Thu	i.p.	USB	(AAI)
13130	S06s	1-1	1000	Thu		USB	(AAI)
5810	S06s	2-1	0800	Fri	278 413 5 46062 68672 97478 39685 30485 413 5 00000	USB	(AB)
6770	S06s	2-1	0810	Fri	278 413 5 46062 68672 97478 39685 30485 413 5 00000	USB	(AB)
8057	S06s	5-1	0830	Mon	371 829 5 82395 58825 82037 89622 70831829 5 00000	USB	(AB)
8530	S06s	5-1	0840	Mon	371 829 5 82395 58825 82037 89622 70831829 5 00000	USB	(AB)
10635	S06s	5-1	1310	Mon	831 496 5 31084 92096 58781 62106 27361 496 5 00000	USB	(AB)
11945	S06s	6-1	0800	Tue	352 890 6 37529 80755 33802 43834 37194 37938 890 6 00000	USB	(AB)
13195	S06s	6-1	0810	Tue	352 890 6 37529 80755 33802 43834 37194 37938 890 6 00000	USB	(AB)
9170	S06s	6-1	1510	Tue	537 218 6 30720 43259 33366 46044 36844 78319 218 6 00000	USB	(AB)
6778	S06s	7-1	0820	Wed	471 983 5 45033 37231 38888 48097 35474 983 5 00000	USB	(AB)
7675	S06s	7-1	0830	Wed	471 983 5 45033 37231 38888 48097 35474 983 5 00000	USB	(AB)
11830	S06s	7-1	0840	Wed	745 260 8 37184 36129 33983 83321 85246 32993 38404 36364 260 8 00000	AM	(AB)
6420	S06s	7-1	1240	Wed	Too weak to copy	USB	(AB)
8812	S06s	8-1	0930	Thu	314 592 6 79419 68387 43884 53728 98342 93110 592 6 00000	USB	(AB)

Freq.	Code	Date	UTC	Day	Remarks	Mode	Contributor
9540	S06s	8-1	0940	Thu	314 592 6 79419 68387 43884 53728 98342 93110 592 6 00000	USB	(AB)
13130	S06s	8-1	0950	Thu	635 204 7 83293 81099 85793 93110 19385 83910 65839 204 7 00000	USB	(AB)
12445	S06s	8-1	0950	Thu	635 204 7 83293 81099 85793 93110 19385 83910 65839 204 7 00000	USB	(AB)
7150	S06s	9-1	0700	Fri	196 478 5 92101 27563 92383 65982 32189 00000	USB	(AB)
8215	S06s	9-1	0710	Fri	196 478 5 92101 27563 92383 65982 32189 00000	USB	(AB)
5810	S06s	9-1	0800	Fri	278 413 5 46062 68672 97478 39685 30485 413 5 00000	USB	(AB)
6770	S06s	9-1	0810	Fri	278 413 5 46062 68672 97478 39685 30485 413 5 00000	USB	(AB)
11780	S06s	9-1	0930	Fri	516 432 7 21767 53672 11834 81022 36903 41412 55678 432 7 00000	AM	(AB)
12570	S06s	9-1	0940	Fri	516 432 7 21767 53672 11834 81022 36903 41412 55678 432 7 00000	AM	(AB)
8057	S06s	12-1	0830	Mon	371 829 5 82395 58825 82037 89622 70831 829 5 00000	USB	(AB)
8530	S06s	12-1	0840	Mon	371 829 5 82395 58825 82037 89622 70831 829 5 00000	USB	(AB)
14675	S06s	12-1	0900	Mon	872 493 5 20529 80749 03752 76367 84777 493 5 00000	USB	(AB)
12830	S06s	12-1	0910	Mon	872 493 5 20529 80749 03752 76367 84777 493 5 00000	USB	(AB)
8420	S06s	12-1	1300	Mon	831 496 5 31084 92096 58781 62106 27361 496 5 00000	USB	(AB)
10635	S06s	12-1	1310	Mon	831 496 5 31084 92096 58781 62106 27361 496 5 00000	USB	(AB)
6320	S06s	13-1	0715	Tue	374 802 5 33640 38293 43330 32403 88443 802 5 00000	USB	(AB)
11532	S06s	13-1	0730	Tue	427 531 6 32679 93099 36580 39638 40224 41899 531 6 00000	AM	(AB)
7410	S06s	13-1	0730	Tue	427 531 6 32679 93099 36580 39638 40224 41899 531 6 00000	AM	(AB)
6845	S06s	13-1	1500	Tue	537 218 6 30720 43259 33366 46044 36844 78319 218 6 00000	USB	(AB)
9170	S06s	13-1	1510	Tue	537 218 6 30720 43259 33366 46044 36844 78319 218 6 00000	USB	(AB)
14280	S06s	14-1	1010	Wed	729 851 6 44530 37108 56798 30221 47454 86730 851 6 00000	AM	(AB)
9540	S06s	15-1	0940	Thu	314 529 6 38424 31664 36303 38723 32460 36090 529 6 00000	USB	(AB)
12445	S06s	15-1	0950	Thu	635 241 7 35647 36545 34528 39182 37446 36382 42745 241 7 00000	USB	(AB)
13130	S06s	15-1	1000	Thu	635 241 7 35647 36545 34528 39182 37446 36382 42745 241 7 00000	USB	(AB)
12155	S06s	15-1	1200	Thu	425 810 6 42453 44746 47475 35253 35011 37817 810 6 00000	AM	(AB)
10920	S06s	15-1	1210	Thu	425 810 6 42453 44746 47475 35253 35011 37817 810 6 00000	AM	(AB)
8057	S06s	19-1	0830	Mon	371 482 5 46325 37713 45436 49783 35979 482 5 00000	USB	(AB)
10635	S06s	19-1	1310	Mon	831 247 5 34682 17455 76294 55995 54595 247 5 00000	USB	(AB)
16145	S06s	20-1	0600	Tue	438	USB	(HFD)
5250	S06s	20-1	0700	Tue	374 859 5 99228 77544 04816 66557 51269 859 5 00000	USB	(AB)
6320	S06s	20-1	0700	Tue	374 859 5 99228 77544 04816 66557 51269 859 5 00000	USB	(AB)
7410	S06s	20-1	0730	Tue	427 590 6 41832 31621 32774 37587 43603 43203 590 6 00000	AM	(AB)
11945	S06s	20-1	0800	Tue	352 807 6 47325 37713 45436 49783 30533 37558 807 6 00000	USB	(AB)
13195	S06s	20-1	0810	Tue	352 807 6 47325 37713 45436 49783 30533 37558 807 6 00000	USB	(AB)
6845	S06s	20-1	1500	Tue	537 804 6 31444 83368 30396 83927 83132 37255 804 6 00000	USB	(AB)
9170	S06s	20-1	1510	Tue	537 804 6 31444 83368 30396 83927 83132 37255 804 6 00000	USB	(AB)
14280	S06s	21-1	1010	Wed	729 534 6 41645 35709 36414 49790 32628 39730 534 6 00000	AM	(AB)
13565	S06s	22-1	0910	Thu	167 405 8 45032 39366 87471 31487 40130 30905 37181 39971 00000	USB	(AB)
9540	S06s	22-1	0940	Thu	314 529 6 38424 31664 36303 38723 32460 36090 00000	USB	(AB)
12445	S06s	22-1	0950	Thu	635 241 7 35647 36545 34528 39182 37447 36382 42745 241 7 00000	USB	(AB)
13130	S06s	22-1	1000	Thu	635 241 7 35647 36545 34528 39182 37447 36382 42745 241 7 00000	USB	(AB)
12155	S06s	22-1	1200	Thu	425 810 6 42453 44746 47475 35253 35011 37817 810 6 00000	AM	(AB)
10920	S06s	22-1	1210	Thu	425 810 6 42453 44746 47475 35253 35011 37817 810 6 00000	AM	(AB)
13470	S06s	25-1	0630	Sun	524 978 6 43686 41225 40696 81942 34293 43952 978 6 00000	USB	(AB)
16515	S06s	25-1	0630	Sun	524 978 6 43686 41225 40696 81942 34293 43952 978 6 00000	USB	(AB)
8057	S06s	25-1	0830	Sun	371 482 5 47325 37713 45436 49783 35979 482 5 00000	USB	(AB)
8530	S06s	25-1	0840	Sun	371 482 5 47325 37713 45436 49783 35979 482 5 00000	USB	(AB)
14675	S06s	25-1	0900	Sun	872 419 5 33391 30214 30358 37943 35381 419 5 00000	USB	(AB)
12830	S06s	25-1	0910	Sun	872 419 5 33391 30214 30358 37943 35381 419 5 00000	USB	(AB)
16145	S06s	27-1	0600	Tue	438 512 6 03176 58842 55499 72223 55285 56438 00000	USB	(AB)
5250	S06s	27-1	0700	Tue	374 869 5 99228 77544 04816 56557 51269 00000	USB	(AB)
13195	S06s	27-1	0810	Tue	352 807 6 47325 37713 45436 49783 30533 37558 807 6 00000	USB	(AB)
7410	S06s	27-1	0830	Tue	427 590 6 41832 31621 32774 37587 43603 43203 590 6 00000	AM	(AB)
11532	S06s	27-1	0840	Tue	427 590 6 41832 31621 32774 37587 43603 43203 590 6 00000	AM	(AB)
5660	S06s	27-1	1010	Tue	893 425 6 45990 35243 45943 44305 31200 30883 00000	USB	(AB)
6845	S06s	27-1	1500	Tue	537 804 6 31444 83368 30396 83927 83132 37255 804 6 00000	USB	(AB)
9170	S06s	27-1	1510	Tue	537 804 6 31444 83368 30396 83927 83132 37255 804 6 00000	USB	(AB)
8812	S06s	29-1	0930	Thu	314 314 314 00000	USB	(AB)
9540	S06s	29-1	0940	Thu	314 314 314 00000	USB	(AB)
13130	S06s	29-1	1000	Thu	635 635 635 00000	USB	(AB)
12155	S06s	29-1	1200	Thu	425 425 425 00000	AM	(AB)
10920	S06s	29-1	1210	Thu	425 425 425 00000	AM	(AB)

Freq.	Code	Date	UTC	Day	Remarks	Mode	Contributor
7504	S11a	6-1	0915	Tue	484/00	USB	(AB)
6433	S11a	7-1	1020	Wed	227/30 Vnimanie 79142 01571 77938 ... 73194 83127 44859 Vnimanie, rpt msg, konec	USB	(AB)
12530	S11a	8-1	1015	Thu	475/00	USB	(AB)
9610	S11a	9-1	1020	Fri	426/00	USB	(AB)
12530	S11a	12-1	1015	Mon	475/00	USB	(AB)
9610	S11a	13-1	1020	Tue	422/34 Vnimanie 32469 78117 87782 ... 92750 13634 84330 Vnimanie, rpt msg, konec	USB	(AB)
6433	S11a	14-1	1020	Wed	221/00	USB	(AB)
12530	S11a	15-1	1015	Thu	475/00	USB	(AB)
4828	S11a	16-1	0455	Fri	321/00	MFSK-20/10Bd	(HFD)
9610	S11a	16-1	1020	Fri	422/34 Vnimanie 32469 78117 87782 ... 92740 13634 84330 Vnimanie, rpt msg, konec	USB	(AB)
7504	S11a	20-1	0915	Tue	481/35 Vnimanie 33038 61302 44869 ... 10635 09636 35255 Vnimanie, rpt msg, konec	USB	(AB)
12530	S11a	22-1	1015	Thu	475/00	USB	(AB)
7504	S11a	23-1	0915	Fri	481/35 Vnimanie 33038 61302 44869 ... 10635 09636 35255 Vnimanie, rpt msg, konec	USB	(AB)
12530	S11a	25-1	1015	Sun	478/38 Vnimanie 53425 18080 27345 ... 47072 36119 08631 Vnimanie, rpt msg, konec	USB	(AB)
6433	S11a	28-1	1020	Wed	221/00	USB	(AB)
5815	S11a	30-1	1955	Fri	370/..	USB	(GHn)
6433	S11a	31-1	1020	Sat	221/00	USB	(AB)
4625	S28	4-1	1249	Sun	MDZhB 08 282 SBODRYGA 5566 4692	USB	(Arg)
4625	S28	8-1	1416	Thu	MDZhB 08 580 LAZUTChIK 0954 5345	USB	(Arg)
4625	S28	8-1	1430	Thu	MDZhB 52 144 TAVYeRON 3710 0831	USB	(Arg)
4625	S28	15-1	0947	Thu	MDZhB 31 184 MIMYeTIZM 9994 5325	USB	(Arg)
4625	S28	15-1	1351	Thu	MDZhB 13 749 CIRKONAT 7460 3591	USB	(DJPr)
4625	S28	15-1	1410	Thu	MDZhB 36 064 KINODIALOG 8028 7828	USB	(DJPr)
4625	S28	19-1	0657	Mon	MDZhB 46 429 EGRIDIF 4299 9777	USB	(DJPr)
4625	S28	19-1	0659	Mon	MDZhB 59 381 MAL'TIDIT 2586 5586	USB	(DJPr)
4625	S28	19-1	1219	Mon	MDZhB 56 174 BANDIKUT 2587 8836	USB	(DJPr)
4625	S28	19-1	1438	Mon	MDZhB 93 167 GASTROL' 6717 6854	USB	(DJPr)
4625	S28	22-1	1619	Thu	MDZhB 07 503 ZANAT 6205 9376	USB	(DJPr)
4625	S28	22-1	1641	Thu	MDZhB 70 114 BIRALA 8969 0415	USB	(DJPr)
4625	S28	25-1	1420	Sun	MDZhB 25 919 MYeGALOZAVR 0065 4100	USB	(DJPr)
4625	S28	25-1	1447	Sun	MDZhB 85 109 YeVTINIYa 6591 6683	USB	(Arg)
4625	S28	26-1	0559	Mon	MDZhB CYeNTIM 61 51 Play00:00à	USB	(DJPr)
4625	S28	26-1	0953	Mon	MDZhB 60 253 AVIAS"YeMKA 4695 6540	USB	(DJPr)
4625	S28	26-1	1010	Mon	MDZhB 01 858 NYeSUSchIJ 2800 4765	USB	(DJPr)
4625	S28	26-1	1030	Mon	MDZhB 45 841 VOZhDYeNIYe 6600 6672	USB	(DJPr)
4625	S28	28-1	0259	Wed	MDZhB FYeNOKSILYeN 64 63	USB	(Arg)
4625	S28	28-1	0559	Wed	MDZhB GYeOLOGiYa 55 37	USB	(Arg)
4625	S28	29-1	1254	Thu	MDZhB 15 418 BYeLOPOLYeC 8315 9191	USB	(Gwr)
4625	S28	29-1	1501	Thu	MDZhB GERUNOK 26 47	USB	(Gwr)
3580	UM01	12-1	1358	Mon	CQ M 15	CW	(JPL-Sib)
3580	UM01	12-1	1944	Mon	CQ M 14	CW	(JPL-Sib)
3580	UM01	12-1	2201	Mon	CQ M 15	CW	(JPL-Sib)
3580	UM01	13-1	0129	Tue	CQ M 16	CW	(JPL-Sib)
3580	UM01	13-1	0956	Tue	CQ M 16	CW	(JPL-Sib)
3580	UM01	13-1	2036	Tue	CQ M 15	CW	(JPL-Sib)
3850	UM01	14-1	0126	Wed	CQ M 12	CW	(JPL-Sib)
3850	UM01	14-1	1659	Wed	CQ M 5	CW	(JPL-Sib)
3850	UM01	15-1	0111	Thu	CQ M 5	CW	(JPL-Sib)
3850	UM01	15-1	1648	Thu	CQ M 4	CW	(JPL-Sib)
3850	UM01	15-1	2204	Thu	CQ M 4	CW	(JPL-Sib)
3850	UM01	16-1	0234	Fri	CQ M 4	CW	(JPL-Sib)
3850	UM01	16-1	1047	Fri	CQ M 3	CW	(JPL-Sib)
3850	UM01	16-1	1550	Fri	CQ M 3	CW	(JPL-Sib)
3850	UM01	16-1	1708	Fri	CQ M 3	CW	(JPL-Sib)
3850	UM01	18-1	1818	Sun	CQ M 6 (Cont'd - 1818z)	CW	(JPL-Sib)
3850	UM01	18-1	2322	Sun	CQ M 7 (Cont'd - 2322z)	CW	(JPL-Sib)
3580	UM01	19-1	0422	Mon	CQ M 7	CW	(JPL-Sib)
3580	UM01	19-1	1045	Mon	CQ M 7	CW	(JPL-Sib)
3580	UM01	19-1	1140	Mon	CQ M 7	CW	(JPL-Sib)
3580	UM01	19-1	1516	Mon	CQ M 7	CW	(JPL-Sib)
3580	UM01	19-1	1813	Mon	CQ M 7	CW	(JPL-Sib)
3580	UM01	19-1	2214	Mon	CQ M 6	CW	(JPL-Sib)

Freq.	Code	Date	UTC	Day	Remarks	Mode	Contributor
3850	UM01	20-1	0140	Tue	CQ M 6	CW	(JPL-Sib)
3850	UM01	20-1	1336	Tue	CQ M 6	CW	(JPL-Sib)
3850	UM01	20-1	1653	Tue	CQ M 6	CW	(JPL-Sib)
3850	UM01	20-1	2009	Tue	CQ M 6	CW	(JPL-Sib)
3850	UM01	20-1	2253	Tue	CQ M 5	CW	(JPL-Sib)
3850	UM01	21-1	1319	Wed	CQ M 6	CW	(JPL-Sib)
3850	UM01	21-1	2158	Wed	CQ M 11	CW	(JPL-Sib)
3850	UM01	21-1	2314	Wed	CQ M 11	CW	(JPL-Sib)
3840	UM01	22-1	1349	Thu	CQ M 13	CW	(JPL-Sib)
3840	UM01	22-1	1538	Thu	CQ M 13	CW	(JPL-Sib)
3840	UM01	22-1	2325	Thu	CQ M 13	CW	(JPL-Sib)
3850	UM01	23-1	0517	Fri	CQ M 15	CW	(JPL-Sib)
3850	UM01	23-1	1334	Fri	CQ M 20	CW	(JPL-Sib)
3850	UM01	23-1	1817	Fri	CQ M 23	CW	(JPL-Sib)
3850	UM01	26-1	0944	Mon	CQ M 30	CW	(JPL-Sib)
3850	UM01	26-1	1500	Mon	CQ M 29	CW	(JPL-Sib)
3850	UM01	26-1	1659	Mon	CQ M 29	CW	(JPL-Sib)
3850	UM01	26-1	2219	Mon	CQ M 28	CW	(JPL-Sib)
3580	UM01	27-1	0152	Tue	CQ M 27	CW	(JPL-Sib)
3580	UM01	27-1	0552	Tue	CQ MN 25	CW	(JPL-Sib)
3580	UM01	27-1	1313	Tue	CQ M 20	CW	(JPL-Sib)
3580	UM01	27-1	1500	Tue	CQ M 20	CW	(JPL-Sib)
3580	UM01	27-1	2255	Tue	CQ M 18	CW	(JPL-Sib)
3850	UM01	29-1	1026	Thu	CQ M 12	CW	(JPL-Sib)
3850	UM01	29-1	1445	Thu	CQ M 12	CW	(JPL-Sib)
3850	UM01	29-1	1828	Thu	CQ M 14	CW	(JPL-Sib)
3850	UM01	30-1	0323	Fri	CQ M 17	CW	(JPL-Sib)
3850	UM01	30-1	1429	Fri	CQ M 16	CW	(JPL-Sib)
3850	UM01	30-1	1813	Fri	CQ M 17	CW	(JPL-Sib)
3724	UM10	12-1	1455	Mon	Unid 10-mins net: 7CJK	CW	(JPL-Sib)
3724	UM10	12-1	1952	Mon	Unid 10-mins net: 7CJK //3207 kHz	CW	(JPL-Sib)
3207	UM10	12-1	1952	Mon	Unid 10-mins net: 7CJK //3724 kHz	CW	(JPL-Sib)
3860	UM10	12-1	1952	Mon	Unid 10-mins net: L6YC //3207 kHz	CW	(JPL-Sib)
3207	UM10	12-1	1952	Mon	Unid 10-mins net: L6YC //3860 kHz	CW	(JPL-Sib)
3860	UM10	13-1	1520	Tue	Unid 10-mins net: L6YC	CW	(JPL-Sib)
3724	UM10	13-1	1526	Tue	Unid 10-mins net: 7CJK	CW	(JPL-Sib)
3207	UM10	14-1	1716	Wed	Unid 10-mins net: L6YC //3860 kHz	CW	(JPL-Sib)
3860	UM10	14-1	1716	Wed	Unid 10-mins net: L6YC //3207 kHz	CW	(JPL-Sib)
3860	UM10	17-1	1450	Sat	Unid 10-mins net: L6YC	CW	(AB)
3207	UM10	17-1	1454	Sat	Unid 10-mins net: 7CJK	CW	(AB)
3860	UM10	18-1	2323	Sun	Unid 10-mins net: L6YC	CW	(JPL-Sib)
3860	UM10	19-1	1816	Mon	Unid 10-mins net: L6YC	CW	(JPL-Sib)
3860	UM10	20-1	1015	Tue	Unid 10-mins net: L6YC	CW	(JPL-Sib)
3207	UM10	20-1	1325	Tue	Unid 10-mins net: L6YC	CW	(JPL-Sib)
3207	UM10	20-1	1327	Tue	Unid 10-mins net: 7CJK	CW	(JPL-Sib)
3860	UM10	20-1	2251	Tue	Unid 10-mins net: L6YC	CW	(JPL-Sib)
3860	UM10	21-1	2316	Wed	Unid 10-mins net: L6YC	CW	(JPL-Sib)
3724	UM10	22-1	1353	Thu	Unid 10-mins net: 7CJK	CW	(JPL-Sib)
3860	UM10	22-1	1354	Thu	Unid 10-mins net: L6YC	CW	(JPL-Sib)
3207	UM10	22-1	1558	Thu	Unid 10-mins net: 7CJK	CW	(JPL-Sib)
3860	UM10	22-1	1615	Thu	Unid 10-mins net: L6YC	CW	(JPL-Sib)
3207	UM10	23-1	1334	Fri	Unid 10-mins net: 7CJK	CW	(JPL-Sib)
6823	UM10	27-1	0123	Tue	Unid 10-mins net: AW3Z	CW	(JPL-Sib)
3724	UM10	27-1	2257	Tue	Unid 10-mins net: 7CJK	CW	(JPL-Sib)
3207	UM10	28-1	1446	Wed	Unid 10-mins net: L6YC	CW	(JPL-Sib)
3724	UM10	28-1	1458	Wed	Unid 10-mins net: 7CJK	CW	(JPL-Sib)
3860	UM10	28-1	2047	Wed	Unid 10-mins net: L6YC	CW	(JPL-Sib)
16037	V07	4-1	0100	Sun	661 661 661 000	USB	(Dan)
14637	V07	4-1	0120	Sun	661 661 661 000	USB	(Dan)
16037	V07	11-1	0100	Sun	661 661 661 000	USB	(Dan)
14637	V07	11-1	0120	Sun	661 661 661 000	USB	(Dan)
16037	V07	18-1	0100	Sun	661 661 661 000	USB	(Dan)

Freq.	Code	Date	UTC	Day	Remarks	Mode	Contributor
14637	V07	18-1	0120	Sun	661 661 661 000	USB	(Dan)
16037	V07	25-1	0100	Sun	661 661 661 1 529 71 85475 29200 ... 02593 000 000	USB	(Dan)
14637	V07	25-1	0230	Sun	661 661 661 1 529 71 85475 29200 ... 02593 000 000	USB	(Dan)
5637	V21	3-1	1408	Sat	Cuban Babbler	USB	(AAFL)
5637	V21	14-1	1400	Wed	Cuban Babbler	USB	(AAFL)
5715	V24	15-1	1330	Thu	Jammed by N. Korea.	AM	(Avare)
6310	V24	15-1	1430	Thu	Jammed by N. Korea. WindowsXP shutdown sound follow at 1442z	AM	(Avare)
4140	VC01	24-1	1250	Sat	Chinese Robot	USB	(NC)
12208	X06	7-1	1440	Wed	Mazielka. Sequence: 215346	USB	(AAI)
18575	X06	15-1	1229	Thu	Mazielka. Sequence: 352416	USB	(PUK)
12055	X06	15-1	1633	Thu	Mazielka. Sequence: 256134	USB	(Cry)
14970	X06	21-1	1101	Wed	Mazielka. Sequence: 216354.	USB	(Danix)
11620	X06	22-1	0826	Thu	Mazielka. Sequence: 153624	USB	(Danix)
14550	X06	22-1	0829	Thu	Mazielka. Sequence: 153624	USB	(Danix)
11126	X06	28-1	1310	Wed	Mazielka. Sequence: 216354	USB	(AAI)
16115	X06	30-1	1502	Fri	Mazielka. Sequence: 215346	USB	(Danix)
7891	XPA	1-1	1900	Thu	msg	MFSK-20/10Bd	(HFD)
6791	XPA	1-1	1920	Thu	msg	MFSK-20/10Bd	(HFD)
5391	XPA	1-1	1940	Thu	msg	MFSK-20/10Bd	(HFD)
12208	XPA	7-1	0740	Wed	192 192 192 000 01797 00001 00000 10140	MFSK-20/10Bd	(AB)
9108	XPA	10-1	0700	Sat	192 192 192 000 05438 00001 00000 10140	MFSK-20/10Bd	(AB)
10908	XPA	10-1	0720	Sat	192 192 192 000 05438 00001 00000 10140	MFSK-20/10Bd	(AB)
12208	XPA	10-1	0740	Sat	192 192 192 000 05438 00001 00000 10140	MFSK-20/10Bd	(AB)
7891	XPA	13-1	1900	Tue	873 873 873 1 04727 00267 66783 ... 07650 73854 22773 (corrupt transmission)	MFSK-20/10Bd	(AB/MPJ)
6791	XPA	13-1	1920	Tue	873 873 873 1 04727 00267 66783 ... 07650 73854 22773	MFSK-20/10Bd	(AB)
5391	XPA	13-1	1940	Tue	873 873 873 1 04727 00267 66783 ... 07650 73854 22773	MFSK-20/10Bd	(AB/MPJ)
7891	XPA	15-1	1900	Thu	873 1 04727 00267 66783 23850 58340 ... 89452 65968 07650 73854 22773	MFSK-20/10Bd	(MPJ)
5191	XPA	15-1	1940	Thu	873 1 04727 00267 66783 23850 58340 ... 89452 65968 07650 73854 22773	MFSK-20/10Bd	(MPJ)
9109	XPA	17-1	0700	Sat	msg	MFSK-20/10Bd	(HFD)
10909	XPA	17-1	0720	Sat	msg	MFSK-20/10Bd	(HFD)
12209	XPA	17-1	0740	Sat	msg	MFSK-20/10Bd	(HFD)
12208	XPA	17-1	0740	Sat	192 192 192 1 00695 00179 67492 ... 76188 80126 16070	MFSK-20/10Bd	(AB)
6791	XPA	20-1	1920	Tue	873 873 873 000 06650 00001 00000 10140	MFSK-20/10Bd	(MPJ)
5391	XPA	20-1	1940	Tue	873 873 873 000 06650 00001 00000 10140	MFSK-20/10Bd	(MPJ)
7891	XPA	22-1	1900	Thu	873 873 873 000 07650 00001 00000 10140	MFSK-20/10Bd	(AB)
8091	XPA	24-1	0700	Sat	192 192 192 000 04261 00001 00000 10140	MFSK-20/10Bd	(AB)
10908	XPA	24-1	0720	Sat	192 192 192 000 04261 00001 00000 10140	MFSK-20/10Bd	(AB)
12208	XPA	24-1	0740	Sat	192 192 192 000 04261 00001 00000 10140	MFSK-20/10Bd	(AB)
7891	XPA	27-1	1900	Tue	873 1 (Message corrupt) 66666225526266 04338 ...	MFSK-20/10Bd	(MPJ)
5391	XPA	27-1	1940	Tue	873 1 04338 00251 20818010893 74970 ... 97001 05888 6786 9161 65226	MFSK-20/10Bd	(MPJ)
12208	XPA	28-1	0740	Wed	192 1 03266 00245 40993 ... 51695 95826 15752	MFSK-20/10Bd	(AB)
5391	XPA	29-1	1940	Thu	873 1 04338 00251 20818 10893 74970 ... 92201 05868 77116 91617 65726	MFSK-16/20Bd	(MPJ)
14978	XPA2	5-1	0820	Mon	05122 00001 00000 10140	MFSK-16/20Bd	(AB)
14378	XPA2	5-1	0840	Mon	05122 00001 00000 10140	MFSK-16/20Bd	(AB)
16138	XPA2	6-1	1300	Tue	07811 00000 00000 10140	MFSK-16/20Bd	(AB/MPJ)
16138	XPA2	6-1	1300	Tue	msg	MFSK-16/20Bd	(HFD)
14438	XPA2	6-1	1320	Tue	07811 00000 00000 10140	MFSK-16/20Bd	(AB/AAI/MPJ)
14438	XPA2	6-1	1320	Tue	msg	MFSK-16/20Bd	(HFD)
13438	XPA2	6-1	1340	Tue	msg	MFSK-16/20Bd	(HFD)
13438	XPA2	6-1	1340	Tue	07811 00000 00000 10140	MFSK-16/20Bd	(AB/MPJ)
15978	XPA2	7-1	0800	Wed	05847 00001 00000 10140	MFSK-16/20Bd	(AB)
14978	XPA2	7-1	0820	Wed	05847 00001 00000 10140	MFSK-16/20Bd	(AB)
16167	XPA2	9-1	1400	Fri	04935 00001 00000 10140	MFSK-16/20Bd	(AB)
16167	XPA2	9-1	1400	Fri	msg	MFSK-16/20Bd	(HFD)
14664	XPA2	9-1	1420	Fri	msg	MFSK-16/20Bd	(HFD)
14663	XPA2	9-1	1420	Fri	04935 00001 00000 10140	MFSK-16/20Bd	(AB)
13923	XPA2	9-1	1440	Fri	04935 00001 00000 10140	MFSK-16/20Bd	(AB)
13924	XPA2	9-1	1440	Fri	msg	MFSK-16/20Bd	(HFD)
16167	XPA2	10-1	1400	Sat	03179 00001 00000 10140	MFSK-16/20Bd	(AB)
14663	XPA2	10-1	1420	Sat	03179 00001 00000 10140	MFSK-16/20Bd	(AB)
13923	XPA2	10-1	1440	Sat	03179 00001 00000 10140	MFSK-16/20Bd	(AB)

Freq.	Code	Date	UTC	Day	Remarks	Mode	Contributor
16139	XPA2	11-1	1300	Sun	05401 00001 00000 10140	MFSK-16/20Bd	(AAI)
15978	XPA2	12-1	0800	Mon	08724 00001 00000 10140	MFSK-16/20Bd	(AB)
14978	XPA2	12-1	0820	Mon	08724 00001 00000 10140	MFSK-16/20Bd	(AB)
14378	XPA2	12-1	0840	Mon	08724 00001 00000 10140	MFSK-16/20Bd	(AB)
16138	XPA2	13-1	1300	Tue	06247 00001 00000 10140	MFSK-16/20Bd	(AB)
14438	XPA2	13-1	1320	Tue	06247 00001 00000 10140	MFSK-16/20Bd	(AB)
13438	XPA2	13-1	1340	Tue	06247 00001 00000 10140	MFSK-16/20Bd	(AB)
15978	XPA2	14-1	0800	Wed	06335 00000 00033 (corrupt transmission)	MFSK-16/20Bd	(AB)
14978	XPA2	14-1	0820	Wed	06435 00001 00000 10140	MFSK-16/20Bd	(AB)
14378	XPA2	14-1	0840	Wed	06435 00001 00000 10140	MFSK-16/20Bd	(AB)
16167	XPA2	16-1	1400	Fri	07998 00117 84602 ... 35820 92600 34441	MFSK-16/20Bd	(AB)
14663	XPA2	16-1	1420	Fri	Start tones, off, start tones, off. Didn't come back	MFSK-16/20Bd	(AB)
13923	XPA2	16-1	1440	Fri	07998 00117 84602 ... 35820 92600 34441	MFSK-16/20Bd	(AB)
16138	XPA2	18-1	1300	Sun	07171 00107 35649 ... 23986 38026 08125 73323	MFSK-16/20Bd	(AB)
14438	XPA2	18-1	1320	Sun	07171 00107 35649 ... 23986 38026 08125 73323	MFSK-16/20Bd	(AB)
13438	XPA2	18-1	1340	Sun	07171 00107 35649 ... 23986 38026 08125 73323	MFSK-16/20Bd	(AB)
14978	XPA2	19-1	0820	Mon	01478 00247 78459 ... 28895 56724 44715	MFSK-16/20Bd	(AB)
14378	XPA2	19-1	0840	Mon	01478 00247 78459 ... 28895 56724 44715	MFSK-16/20Bd	(AB)
16138	XPA2	20-1	1300	Tue	07171 00107 35649 ... 23986 38026 08125 73323	MFSK-16/20Bd	(AB)
14438	XPA2	20-1	1320	Tue	07171 00107 35649 ... 23986 38026 08125 73323	MFSK-16/20Bd	(AB/AAI)
13438	XPA2	20-1	1340	Tue	07171 00107 35649 ... 23986 38026 08125 73323	MFSK-16/20Bd	(AB)
16167	XPA2	24-1	1400	Sat	01756 00001 00000 10140	MFSK-16/29Bd	(AB)
14663	XPA2	24-1	1420	Sat	01756 00001 00000 10140	MFSK-16/29Bd	(AB)
13923	XPA2	24-1	1440	Sat	01756 00001 00000 10140	MFSK-16/29Bd	(AB)
14978	XPA2	25-1	0820	Sun	00122 00193 75835 ... 13121 28937 06312	MFSK-16/20Bd	(AB)
14378	XPA2	25-1	0840	Sun	00122 00193 75835 ... 13121 28937 06312	MFSK-16/20Bd	(AB)
16138	XPA2	27-1	1300	Tue	01928 00001 00000 10140	MFSK-16/220Bd	(AB)
14438	XPA2	27-1	1320	Tue	01928 00001 00000 10140	MFSK-16/220Bd	(AB)
13438	XPA2	27-1	1340	Tue	01928 00001 00000 10140	MFSK-16/220Bd	(AB)
15978	XPA2	28-1	0800	Wed	08854 00001 00000 10140	MFSK-16/20Bd	(AB)
14978	XPA2	28-1	0820	Wed	08854 00001 00000 10140	MFSK-16/20Bd	(AB)
14378	XPA2	28-1	0840	Wed	08854 00001 00000 10140	MFSK-16/20Bd	(AB)
16167	XPA2	30-1	1400	Fri	03722 00135 70411 ... 08561 18155 34445	MFSK-16/20Bd	(AB)
14663	XPA2	30-1	1420	Fri	03722 00135 70411 ... 08561 18155 34445	MFSK-16/20Bd	(AB)
13923	XPA2	30-1	1440	Fri	03722 00135 70411 ... 08561 18155 34445	MFSK-16/20Bd	(AB)
16167	XPA2	31-1	1400	Sat	07391 00001 00000 10140	MFSK-16/20Bd	(AB)
14663	XPA2	31-1	1420	Sat	07391 00001 00000 10140	MFSK-16/20Bd	(AB)
13923	XPA2	31-1	1440	Sat	07391 00001 00000 10140	MFSK-16/20Bd	(AB)
8704	XSL	31-1	2020	Sat	Japanese Navy a.k.a. Slot Machine	QPSK 1500	(AAI)

Soviet spy trawler
Tseriba in the
Rotterdam harbor



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