

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	43206	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
676	87698	69876	87698	69876	87612	12341	34867	86798	632
867	43298	65656	56756	56123	32143	14321	32143	14321	321
701	02787	58765	76587	58765	76587	58765	76587	58756	765
75476	76543	54365	36543	54365	36543	54365	36543	54365	543

Numbers & Oddities

a.k.a. The Spooks Newsletter

Edition #226, July 2016

Editor: Ary Boender email: udxf@udxf.nl

Numbers & Oddities <http://www.numbersoddities.nl>

"Numbers & Oddities" a.k.a. the "Spooks Newsletter" is a newsletter for the members of the Utility DXers Forum (UDXF), the Spooks mailing list, HF Underground and everyone else who is interested in Numbers Stations.

"Numbers & Oddities" covers the fascinating world of Numbers Stations and other odd radio signals on shortwave.

You probably heard or read it already, V15 from North Korea is/was back again. See further under V15.

Radio700 also mentioned it and interviewed Jochen Schäfer about the subject in their program "Radio, Menschen und Geschichten". The program was aired on 31 July via Shortwave.

A recording is available on this <http://www.radiomenschenundgeschichten.de>



M23 was also active again and HM02 is still alive and kicking. We still have no idea who is running this station. The Russian military are the most likely candidates. Info about this station is very welcome.

[VOICE STATIONS](#)



E06

13825/15615 kHz, 07-07/08-07/21-07/22-07, 0500/0600 UTC

679 583 102

67038 20056 12532 52691 71706 28722 04274 62361 19201 84272
83267 17730 69037 53407 03588 67083 27136 63351 64523 97666
58702 60030 70192 77507 16055 40952 62691 64905 04829 79974
14710 15288 37001 86167 92568 40115 44159 63938 25596 97520
49473 66608 42788 19384 21789 60649 62702 04513 60290 42735
47496 32623 83164 76826 57077 78813 18709 43450 64281 33209
22320 18386 17023 55478 67791 22926 58357 18886 86373 12908
40394 23600 52021 98701 92988 83911 36267 13345 33162 19078
81170 71007 26175 02459 63759 82979 34211 48645 50420 23360
13577 43261 64666 61643 46397 45135 16722 04391 17698 15513
68358 13169
583 102 00000

5731 kHz, 22-07, 2030 UTC

315 569 63

14259 22676 32782 32782 76723 89409 12215 74326 64070 90235
38085 59543 12319 74238 36664 12256 18841 73311 98089 12250
57878 87897 79879 99990 98878 89889 87879 56787 09000 76578
87878 89898 89890 98798 65656 54545 56566 56578 87876 99877
38085 55543 12315 74238 36664 12256 18841 73311 98089 12250
87878 89898 89890 98798 65656 54545 56566 56578 87876 99877
32333 43433 54545
569 63 00000



E07

13898/12198/10798 kHz, 03-07, 1700/1720/1740 UTC

817 817 817 1 315 125 315 125
47724 00834 86968 50886 14370 92517 86723 01518 80144 66586
35369 52716 49551 98151 16044 36845 79428 42915 40247 65092
78276 94987 03335 15404 68349 92262 35707 30915 99666 33018
67578 74436 12126 37226 35416 83070 50207 31230 44652 57524
73879 23379 36901 09040 84819 28596 86271 19407 44133 60161
83370 82964 46182 46172 61674 52026 71544 32433 48770 47118
26159 06802 68037 16949 01652 30573 43479 50936 49334 83046
59487 24190 27377 74070 50805 83687 77604 08895 05024 19399
37338 39461 28871 70408 90505 36914 60585 18149 91924 37137
26993 35844 89981 82701 59544 15430 31052 36258 84616 24239
97562 95878 68690 08975 18435 48584 10790 75175 72226 77710
45644 76687 39102 56550 55835 04446 42849 96378 32590 57825
34516 74104 33922 10313 53107
000 000

13898/12198/10798 kHz, 13-07, 1700/1728/1758 UTC. Double message

13898/12198/10798 kHz, 17-07, 1700/1729/1758 UTC. Double message

817 817 817 2 799 65 799 65
29036 53494 44634 32486 12003 37471 68567 80873 36426 94757
07840 89759 65508 38360 95086 27503 58861 07512 63805 63870
06900 16940 79933 12358 24643 53113 08990 92690 08158 18726
36756 26017 22635 72383 02385 61644 85786 14019 35736 36455
80934 35502 95267 78866 91115 75984 88438 60353 43024 17501
38091 66672 02437 96365 99340 29737 58699 06391 19121 58014
41212 66611 37904 31188 60271

817 817 817 2 962 131 962 131
42760 15131 12609 66767 81020 50041 36810 30988 33007 50408
49710 54220 95228 59652 10778 73982 40181 03035 39452 75132
86430 03388 34898 74383 08459 47303 39386 61691 63583 74617
94752 08813 31865 35564 40836 72279 07049 07634 33838 43523
89819 07268 46318 94162 95874 60640 49733 54585 28130 40445
84682 88422 56974 58323 13721 92825 06924 40651 88957 12987
39937 97669 75272 53591 88341 76074 93050 12479 92273 96384
62504 68895 63648 36808 48726 92966 54326 92657 64291 99898
96735 85880 27992 21359 10415 14622 97420 76229 50899 56814
76947 92951 43778 64874 73425 53479 44761 56334 49830 32593
78266 98110 11098 80320 98248 16833 41114 87167 93343 60925
75985 84080 04980 66609 21480 89275 16578 20061 60817 66485
97531 92989 19485 03808 48784 08641 66122 69183 93939 17999
56150
000 000



E07a

12166/10766/9266 kHz, 06-07, 2000/2020/2040 UTC

172 172 172 1 64632 7071 79 7071 79
33725 05175 91173 22165 83808 52252 54302 53583 45825 74615
47556 92743 11724 69310 51688 62920 90496 15767 74726 26500
84404 28183 26917 68128 07227 49306 72512 46656 60122 62397
02633 87795 09386 62866 38752 36243 14280 23488 54394 85396
05635 58167 65469 23306 06799 86050 16827 58167 49893 07030
95565 96111 67099 09742 52961 69228 28459 99651 58527 75007
15484 55668 21240 04962 72142 96593 37557 74973 35594 82502
59024 56281 18079 70139 04354 78751 57852 47189 02837
000 000

7933/9133/10233 kHz, 07-07, 0430/0450/0510 UTC

912 912 912 1 64632 7071 79 7071 79
33725 05175 91173 22165 83808 52252 54302 53583 45825 74615
47556 92743 11724 69310 51688 62920 90496 15767 74726 26500
84404 28183 26917 68128 07227 49306 72512 46656 60122 62397
02633 87795 09386 62866 38752 36243 14280 23488 54394 85396
05635 58167 65469 23306 06799 86050 16827 58167 49893 07030
95565 96111 67099 09742 52961 69228 28459 99651 58527 75007
15484 55668 21240 04962 72142 96593 37557 74973 35594 82502
59024 56281 18079 70139 04354 78751 57852 47189 02837
000 000

12213/11413/10113 kHz, 08-07, 1510/1530/1550 UTC

241 241 241 1 12915 1499 59 1499 59
36084 25366 96608 14589 19647 64867 45366 43644 99856 39971
90158 37255 23465 59502 47221 50681 38833 88129 30896 19926
26123 76681 48804 22022 19791 25050 93477 79345 13008 05203
41203 06015 85158 44224 89055 67839 17283 81902 07960 25399
87049 01890 10390 55832 92578 85783 41521 37021 04988 63385
12365 52047 89614 24565 79252 81988 95628 18336 04426
000 000

12173/13973/14873 kHz, 09-07, 0800/0820/0840 UTC

198 198 198 1 12915 1499 59 1499 59
36084 25366 96608 14589 19647 64867 45366 43644 99856 39971
90158 37255 23465 59502 47221 50681 38833 88129 30896 19926
26123 76681 48804 22022 19791 25050 93477 79345 13008 05203
41203 06015 85158 44224 89055 67839 17283 81902 07960 25399
87049 01890 10390 55832 92578 85783 41521 37021 04988 63385
12365 52047 89614 24565 79252 81988 95628 18336 04426
000 000

12166/10766/9266 kHz, 13-07, 2000/2020/2040 UTC

172 172 172 1 31310 7185 59 7185 59
20798 66213 52802 27160 24799 12062 06372 66727 47071 65502
06511 13851 55212 71412 97422 45989 99717 38432 01545 83548
76754 98756 89360 29294 12465 39209 10048 66301 70152 31236
13996 50033 22835 34959 09857 57132 71628 75882 05694 56334
74966 87538 53314 40313 70903 82931 10057 49301 51413 68217
05512 03343 22287 42085 88008 89899 69571 55606 85449
000 000

7933/9133/10233 kHz, 14-07, 0430/0450/0510 UTC

912 912 912 1 31310 7185 59 7185 59
20798 66213 52802 27160 24799 12062 06372 66727 47071 65502
06511 13851 55212 71412 97422 45989 99717 38432 01545 83548
76754 98756 89360 29294 12465 39209 10048 66301 70152 31236
13996 50033 22835 34959 09857 57132 71628 75882 05694 56334
74966 87538 53314 40313 70903 82931 10057 49301 51413 68217
05512 03343 22287 42085 88008 89899 69571 55606 85449
000 000



E11a

9130 kHz, 03-07, 2005 UTC

364/31 Attention
17869 11659 89208 35008 78994 15664 21620 42310 31233 88107
85220 49510 50159 16889 16211 00272 46330 72997 80254 48760
51297 65179 16503 70787 48977 67915 10204 93122 96094 42438
66444
Attention, rpt msg, out

6807 kHz, 04-07/07-07, 0820 UTC

438/34 Attention
06027 54397 60807 97050 88538 82995 55177 39790 22896 69646
22163 32408 99552 99522 06100 61579 77835 90655 24136 13879
62825 54559 86466 57285 13257 77985 18980 38554 72070 76805
23939 75891 55589 43105
Attention, rpt msg, out

13537 kHz, 04-07/08-07, 1225 UTC

527/40 Attention
38084 95242 84672 18636 26702 19760 37057 99230 61246 79784
67703 56358 53952 65910 32581 97599 14573 94160 43855 60790
12410 81157 35769 27309 99097 39598 86060 28066 08391 05421
99275 46383 86906 56428 11151 79272 15264 57151 67987 38305
Attention, rpt msg, out

4783 kHz, 10-07, 1605 UTC

233/31 Attention
77103 96627 00848 45158 89930 48645 57662 71066 65823 46112
76932 65829 43815 30173 46570 50261 21916 97757 30991 12762
15281 92162 87637 76856 59791 80525 86307 86750 90183 86202
04646
Attention, rpt msg, out

10800 kHz, 11-07, 0450 UTC / 8088 kHz, 14-07, 1730 UTC

414/37 Attention
37630 24811 91067 24073 31277 22056 56076 17599 80525 59978
17589 63758 77026 54332 67675 82159 77172 00227 48802 00951
64224 60927 61533 20629 83414 15285 57914 02247 79387 26615
65284 04456 96182 47274 71678 73185 24751
Attention, rpt msg, out

9610 kHz, 11-07, 0745 UTC / 10356 kHz, 14-07, 1530 UTC

269/40 Attention

67859 60273 96876 67920 99278 26827 00094 98646 13685 46281
15580 16675 78416 30599 72977 83779 28052 73729 57010 15251
57635 45394 48382 05916 04875 37646 12946 21612 62437 14602
15294 64831 32829 75324 80441 77349 34044 73258 16803 17876

Attention, rpt msg, out

13427 kHz, 11-07/13-07, 0900 UTC

538/31 Attention

70527 67201 05168 72757 71433 32137 78898 91992 02299 60478
01257 39434 20093 42632 37672 76328 46086 13801 27747 20845
81193 82595 56121 94543 57422 98299 00892 91742 74066 92772
83604

Attention, rpt msg, out

9052 kHz, 12-07/14-07, 1450 UTC

440/32 Attention

56825 75642 93566 66424 26193 30891 74110 15651 13167 52856
20579 23485 66648 33638 46650 06001 24723 39946 40098 12193
93509 80172 64225 63151 12725 06703 89860 73248 37233 79231
98960 89211

Attention, rpt msg, out

15803 kHz, 13-07, 1300 UTC

137/37 Attention

47816 18994 45375 58768 23691 91898 72826 73996 31783 23491
14571 98749 04319 26263 84917 21878 35426 57422 34641 62186
56204 79035 15320 02189 50190 59925 33274 33809 45481 69916
05419 19197 48000 00809 53460 12061 02593

Attention, rpt msg, out

7984 kHz, 13-07/16-07, 1730 UTC

400/32 Attention

80998 80705 13873 32790 63768 25631 61532 15467 26895 61065
02108 36540 47335 43680 20243 95148 12792 91414 42276 71437
70285 04197 03414 77427 19225 01798 47621 68389 44736 91935
51677 38991

Attention, rpt msg, out

10213 kHz, 14-07, 0930 UTC

271/40 Attention

44367 79670 08628 64237 19601 24836 36417 33612 21945 83464
62141 07400 88980 76349 19958 80763 12317 22774 80392 46431
48741 00448 05090 14931 39974 05563 76248 44173 62951 61077
67744 36624 91265 65674 85935 31661 98669 91083 46665 50301

Attention, rpt msg, out

14753 kHz, 15-07, 0710 UTC

632/33 Attention

06236 56325 75153 54381 54567 41186 57466 57379 91418 09094
92312 75528 30632 02681 58353 22038 57694 37806 02041 80027
31564 53114 43350 50558 12420 27057 35245 67912 53406 71881
86627 64124 31248

Attention, rpt msg, out

14975 kHz, 17-07, 0805 UTC

314/36 Attention

36230 74307 33620 80098 94459 45473 05860 11110 84806 30237
83180 67490 48253 28417 90200 75638 06441 59971 37263 44618
92484 30683 18925 32616 18113 65028 51491 97770 13933 98587
60209 89700 96290 50555 97737 08119

Attention, rpt msg, out

7600 kHz, 18-07/21-07, 0530 UTC

646/33 Attention

75269 37852 74133 46880 15344 54378 42559 98320 25175 50011
95557 38237 30304 77173 12587 63407 36740 10059 20613 21283
23282 40800 24231 92717 74461 84564 81394 40497 21905 02714
15813 05204 96993

Attention, rpt msg, out

10302 kHz, 19-07, 1205 UTC

464/34 Attention

15353 59363 84414 10697 00748 09336 33351 47140 18113 50290
51430 90396 12511 92239 69476 69710 72183 51564 76361 35021
45035 66802 01101 23214 25157 72203 48795 63187 08368 08506
47551 45316 99768 31685

Attention, rpt msg, out

13424 kHz, 21-07, 0645 UTC

511/36 Attention

16276 12192 60788 39208 91547 40479 11968 10798 05688 48520
89291 33089 53557 32510 50766 20393 61674 40389 99141 51161
81800 90197 88114 36150 74748 35303 54137 99875 01626 92148
74209 59283 02557 20709 48721 06281

Attention, rpt msg, out

11581 kHz, 23-07, 1300 UTC

585/35 Attention

72373 92568 38516 17720 42991 16481 46697 51027 64410 07167
52177 66059 29982 70251 66703 85858 38885 84393 64462 06179
43999 35989 96703 44895 86668 89906 68277 04173 98740 36565
30565 44747 48525 55269 60218

Attention, rpt msg, out

14865 kHz, 27-07, 1705 UTC

390/38 Attention

62651 88799 36293 38589 28658 70872 41750 76903 11215 18012
57107 14818 54705 74045 94959 20298 83677 00943 01759 54894
52398 22789 08743 33707 61193 82131 02846 93313 33373 41465
38735 44596 30211 10717 13421 51075 23017 31377

Attention, rpt msg, out

15905 kHz, 28-07/30-07, 0710 UTC

496/33 Attention

74259 01527 29190 54605 05382 73566 22647 71060 46530 17611
57349 09104 19905 64867 82138 91358 11643 39148 10550 00167
49140 62915 44237 90534 27772 05327 33098 53368 56997 60672
04447 85672 62770

Attention, rpt msg, out

14940 kHz, 29-07, 1650 UTC

922/36 Attention

15799 78836 56730 96115 55742 85214 46316 25471 88592 75380
94353 89978 51001 48962 81704 55600 32496 62592 03192 94636
48449 50005 98137 38171 02043 87580 45061 63557 65828 72514
59064 83462 64068 67388 51704 38630

Attention, rpt msg, out



E17z

16780/12850 UTC, 07-07/14-07, 0800/0810 UTC

674 920 5 33796 13577 74526 46647 79302 920 5 00000

16780/12850 UTC, 21-07/28-07, 0800/0810 UTC

674 295 8 44365 43025 39283 33578 47568 40573 42474 34680 295 8 00000

Test transmissions, both logged by qsr711

6325 kHz, 15-07, 1715 UTC, i.p.

end of E17z test 80453 38809 598 36 00000. Started at 1715 UTC

10240 kHz, 22-07, 1130 UTC

Many fails present in the transmission, mostly the transmission stopping and resetting several times.

The last two zeros were not sent.

274 (R4) 981 981 35 35

33796 13577 74526 46647 79302 53516 25616 56069 96813 14199

20534 11140 43494 37638 16070 43494 37638 56070 48834 53735

61088 02440 59354 96320 36793 53068 76342 15009 34140 76386

91497 82963 34162 01405 15003

981 981 35 35 0 0 0

10240/8080 kHz, 31-07, 1204/1215 UTC

Test transmission. Live mail voice. Too weak to copy



E25 / E25a

6140 kHz, 14-07, 0745 UTC

Windows sound

254 254 254 254 254 254 254 254

Message Message Message

2744 2001 6810 5920 5283 5736 6998 0558 5003 6810

Rebeat Rebeat Rebeat

2744 2001 6810 5920 5283 5736 6998 0558 5003 6810

End of message. End of transmission

6140 kHz, 14-07, 0800 UTC

012 012 012 012 012 012 012 012 012 012 012 012 012 012

Message Message Message

4005 2730 3012 8183 0786 5927 9857 7274

Rebeat Rebeat Rebeat

4005 2730 3012 8183 0786 5927 9857 7274

End of message. End of transmission

G06**6887 kHz, 14-07/28-07, 1830 UTC**

842 317 90

37839 35787 98273 60187 16202 95625 31691 52538 61025 22567

93296 67423 40968 16891 63781 34820 04842 60491 75924 04594

77878 46766 09098 78643 09548 46677 90906 89898 56566 67677

76748 84848 84877 16891 63781 34820 04842 87874 78788 78888

93296 67423 40968 16891 63781 34820 04842 60491 75924 56784

09548 46677 90906 89898 56566 67677 23445 34344 45454 34344

35787 98273 60187 16202 95625 46565 43434 89798 54546 78788

76748 84848 84877 16891 34567 34820 04842 87874 78788 78888

68768 76876 58746 58764 87564 85764 87567 64848 85748 84784

317 90 00000

The only numbers station in German is still alive and kicking although there are not many messages.

Freq	Date	UTC	Details
7320	4-7	0800	329 329 329 00000
5348	4-7	1644	111 111 111 00000
5348	4-7	1649	11
5348	4-7	1700	574 574 574 00000
5859	4-7	1710	111 111 111 00000 111
5859	4-7	1715	111 111 111 00000 111 111
5859	4-7	1747	111 1
5859	4-7	1800	574 574 574 00000
7425	6-7	1117	111 111 111 00000
7425	6-7	1200	754 754 754 00000
6956	6-7	1300	754 754 754 00000
5890	7-7	1300	329 329 329 00000
5348	11-7	1649	1
5348	11-7	1700	574 574 574 00000
5859	11-7	1708	00000 111 111 111 00000 1 111 111 11
5859	11-7	1712	111 111 111 00
5859	11-7	1744	11
5859	11-7	1800	574 574 574 00000
7425	13-7	1108	111 111 00000 111 111 111 00000 111 111 111 0000
7425	13-7	1200	754 754 754 00000
6956	13-7	1300	754 754 754 00000
6887	14-7	1830	842 317 90 37839 35787 98273 ... 64848 85748 84784 317 90 00000
5943	15-7	1930	218 39x 20 ?
7390	18-7	0700	00 111 111 111 00000 111 111 111 00000
7390	18-7	0705	1 0 0 111 111 111 00000

Freq	Date	UTC	Details
7390	18-7	0706	111 111 111 00000 111 111
7390	18-7	0725	111
7390	18-7	0800	329 329 329 00000
6887	28-7	1830	842 317 90 37839 35787 98273 ... 64848 85748 84784 317 90 00000
5943	29-7	1930	218 ... too much interference to copy



S06

13469 kHz, 07-07, 0930 UTC

842 106 42
86524 61570 94033 97442 19477 77274 42812 70257 16342 66490
17931 14005 90614 89242 57287 82024 03193 96090 19022 66740
99871 09344 56358 17654 20029 60241 72242 58255 99938 99270
39694 31551 19153 21822 98823 28886 63384 76361 66444 81765
02336 47307
106 42 00000

9075kHz, 14-07, 1700 UTC

975 975 975 45679 (R4) 00000

15875 kHz, 15-07, 0830 UTC

842 975 43
83330 15099 26358 68418 50817 64731 76054 27194 09352 46594
60917 77210 27683 78237 12724 72444 26763 88742 88471 30864
34555 01500 53036 91480 96024 47948 16622 45319 40773 29461
12922 70010 77730 69560 28953 22677 77746 23649 22477 70816
46734 38460 87961
975 43 000000

15875/13469 kHz, 21-07/22-07, 0830/0930 UTC

842 601 44
67010 06612 68987 54294 30910 04067 43597 51798 79671 48902
47031 35870 87560 91132 97800 16229 63986 56886 96934 54942
78938 19322 01311 76848 33825 96594 32245 06243 13668 56561
17774 72020 81577 32915 92054 48470 01453 82427 00348 43895
99838 37994 82989 14252
601 44 00000

8170 kHz, 27-07, 0854 UTC, i.p. unscheduled transmission

i.p. 55555 41226 40629 51564 54564 57318 (stops, nothing further)

9463/7353 kHz, 27-07, 0800z/0815 UTC, unscheduled transmissions

801 346 52
26222 69395 65655 96990 69203 59720 43489 62803 09502 57532
14817 34209 57450 37317 41208 39731 34055 71078 92521 52867
02780 30995 78937 45967 07674 23809 41666 37566 78784 61650
25799 50358 90794 98962 83717 22011 85821 90245 82509 35988
96303 48265 13830 64523 28941 07463 29630 41392 95586 22205
52215 05232
346 52 00000

15875 kHz, 28-07, 0830 UTC

842 379 45

09112 54631 69640 75333 49931 43055 81741 27427 76840 52276
13616 77660 92354 01852 73084 90299 18658 82038 82803 10446
15317 35898 59511 03988 97787 45782 15240 07430 05300 66412
91440 42261 91473 71721 61956 73572 36129 07658 65779 17591
01724 68130 55532 27831 82861
378 45 00000



S06c

8171 kHz, 05-07, 1405 UTC 11625
7823 kHz, 05-07, 1415 UTC 11625
8170 kHz, 27-07, 0851 UTC 11625



S11a

5149 kHz, 05-07/08-07, 0655 UTC

327/34 Vnimanije

01313 09164 68363 64952 96413 52732 10969 02633 67310 24200
02917 51474 51129 57529 13482 71466 35569 66866 95904 25141
53425 56114 96680 89698 14939 04010 84318 81550 40000 39314
42283 80551 40741 97301

Vnimanije, rpt msg, konets

8530 kHz, 05-07/08-07, 0915 UTC

481/34 Vnimanije

46883 51637 47014 42518 38502 56770 12529 71524 03780 05065
56202 47293 00533 26204 46392 63453 81144 97415 36866 44542
85648 84630 81694 69610 74067 47341 55337 33193 80552 30221
76142 86333 49398 56431

Vnimanije, rpt msg, konets

16530 kHz, 11-07/14-07, 1015 UTC

479/31 Vnimanije

00327 22677 65632 54438 22247 28656 43666 05480 74086 87143
60090 74112 78192 30019 72284 99858 89237 50697 46487 87449
71256 15274 01206 13179 92816 16468 45230 38299 72334 44278
74620

Vnimanije, rpt msg, konets

11092 kHz, 20-07/23-07, 1540 UTC

560/37 Vnimanije

44134 74002 84661 31906 16921 11221 04889 18211 46532 52015
 13450 49576 64501 74178 00119 74168 09466 61960 25223 85179
 78462 97250 43815 16435 90699 43656 71546 96147 11820 68315
 77016 29484 77923 04811 09932 29401 07632

Vnimanije, rpt msg, konets

4870 kHz, 20-07/22-07, 1955 UTC

372/40 Vnimanije

89281 68573 27842 03711 68350 91108 40216 07691 28845 21378
 88071 77597 61345 56698 02940 77373 94144 69036 98676 85144
 70349 18562 41267 13009 12328 30245 83701 53091 80603 20942
 13361 92947 88387 88215 20929 06994 76844 53809 23185 92936

Vnimanije, rpt msg, konets

**S28 - The Buzzer**

Mode: USB

Frequency: 3216 & 4625 kHz

Freq	Date	UTC	Details
4625	4-7	0809	ZhUOZ 90166 KZOTOFINN 33310825
4625	4-7	0812	ZhUOZ 50517 DAMFOLAD 75795956
4625	4-7	1555	ZhUOZ 63665 DOLIVAN'Ye 03036994
4625	4-7	1611	ZhUOZ 79828 BIMSOBAL 55675407
4625	4-7	1705	ZhUOZ 74461 DZhUTOGOT 91480718
9250	14-7	1009	Buzzer harmonic
4625	14-7	2110	Buzzer marker //6998 kHz
6998	14-7	2110	Buzzer marker //4625 kHz
4625	18-7	0601	ZhUOZ 3134 PYENSION
4625	18-7	1016	ZhUOZ 08146 KLYuVORAB 28946830
4625	18-7	1130	ZhUOZ 07598 ANURIYa 58463848
4625	18-7	1641	ZhUOZ 40219 BYeRYeT 25249276
4625	18-7	1740	ZhUOZ 57707 GITOLIDS 76576170
4625	20-7	0809	ZhUOZ 33491 LYeSODYeRN 10972675
4625	20-7	0841	ZhUOZ 19944 LYeSNIK 48633474
4625	20-7	0900	ZhUOZ 17660 BOBROFORD 31199008 Error in reading (sboj)
4625	20-7	0902	ZhUOZ 37701 GITOChYeT 67481565
4625	20-7	0908	ZhUOZ 40658 VOLHOVANIYe 88239344
4625	20-7	0911	ZhUOZ 27858 LYeShchOFYeTR 91748537
4625	20-7	0914	ZhUOZ 6151 CYeNTIM
4625	20-7	0935	ZhUOZ 42075 KOROVISHchA 39119251
4625	20-7	1032	ZhUOZ 56529 BANKOLIFT 52247806
4625	20-7	1113	ZhUOZ 75695 ISSYeChYeNIYe 71866289
4625	20-7	1115	ZhUOZ 92870 GITKRAN 70282554
4625	20-7	1117	ZhUOZ 40946 BUYaNOFARSh 35992589
4625	25-7	0928	ZhUOZ 71998 KUPON 27751919
4625	25-7	1051	ZhUOZ 05315 ZYaTYeK 19991321
4625	25-7	1323	ZhUOZ 95247 BRYZGALKA 94962709
4625	25-7	1412	ZhUOZ 95914 ATOLLOVYJ 35795311
4625	25-7	1550	ZhUOZ 89285 BAULOBYK 57577119 BUKVOED 40685547

Freq	Date	UTC	Details
4625	28-7	0956	ZhUOZ 74945 ANUSOKLIK 92236768
4625	28-7	0958	ZhUOZ 81856 KOLOMER 92800774
4625	28-7	1000	ZhUOZ 47332 VYBROSKA 20869097
4625	28-7	1002	ZhUOZ 91856 KOLOMER 92800784 (corrected repeat of 0958 UTC)
4625	28-7	1232	ZhUOZ 69138 KARTING 82172419
4625	28-7	1234	ZhUOZ 02215 ZABORChIK 84485597
4625	28-7	1236	ZhUOZ 96383 KUSOCYeNT 68561920
4625	28-7	1244	ZhUOZ 10444 DYuRALYuMINIJ 36415048



S30 - The Pip

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

3756 kHz, 1-7, 2030 UTC	SB7Z 'O6P Y8VM 6I2Zh 8CShchJ 27Shch' N1DU 53OB 78MV DEAY
3756 kHz, 2-7, 1743 UTC	TZLM FY5E F61N 37CN MUDR 7VNSchh Zh7NZh YMA5 VTH3 AGD
3756 kHz, 14-7, 2112 UTC	Pip marker



S32 - Squeaky Wheel

Mode: USB
Frequencies: 3838 kHz (night), 5473//7009 kHz (day)

5473 kHz, 1-7, 1718 UTC	ROSA-64 DZhIGIT-46 RYeZINA-38 SLIVA-94 STUPA-32
3828 kHz, 1-7, 1844 UTC	LANDYSh-74 FONTAN-34 RUZh'E-26 BIZON-64 PYeSOChNYJ-21 KARTA-11 DUBLYoR-68 PYeNZA-07 KURGAN-40
3828 kHz, 2-7, 0010 UTC	STUPA-32 STAZhER-29 UTyoS-94 RUZh'E-26
5473 kHz, 2-7, 1639 UTC	BIZON-64 KOVBOJ-39 LANDYSh-74 KURGAN-40 NYeVKA-26 ZASLONKA-27 KARTA-11 OTPOR-89 PYeSOChNYJ-21 ShULER-60 STUPA-32 RYeZINA-38
3828 kHz, 14-7, 2111 UTC	Squeaky Wheels marker



V07

13582/12182/10282 kHz, 10-07, 0700/0720/0740 UTC

512 512 512 1 711 41 711 41
37085 31217 22153 25720 98771 34198 05241 83774 04841 00014
13500 97343 38187 30287 33449 13197 44824 83314 12437 34358
13704 83240 00113 03071 15024 98570 47325 11157 82888 09340
73371 43498 05835 80452 98353 80895 42837 13839 23332 17339
87318
000 000

13582/12182/10282 kHz, 31-07, 0700/0720/0740 UTC

512 512 512 1 544 87 544 87

07422 41162 33797 58430 11827 10133 03561 22675 51144 98253
69569 69360 19942 31723 47167 25831 61337 00004 80841 07690
97535 64231 25479 37164 61551 63454 97013 08967 25714 85302
33359 87077 08426 55630 92435 06678 73241 36617 71061 28231
43705 48534 66553 07520 08719 38535 16524 23423 37421 18544
33055 71702 75271 82161 40960 24692 95483 67281 24671 75260
40194 83976 23761 10963 55264 18620 68011 65391 27693 47155
61611 64943 76810 51331 23932 25073 49850 00755 09482 73997
06961 90948 60581 43903 08285 55517 02156
000 000



V13 - New Star Broadcasting Station

星星廣播電台 Xīngxīng guǎngbò diàntái

Current schedules:

15388 kHz New Star Broadcasting #1 0200 UTC
15388 kHz New Star Broadcasting #1 0300 UTC
15388 kHz New Star Broadcasting #2 0400 UTC
11430 kHz New Star Broadcasting #4 0500 UTC
11430 kHz New Star Broadcasting #4 0600 UTC
15388 kHz New Star Broadcasting #3 0700 UTC
15388 kHz New Star Broadcasting #3 0800 UTC
9725 kHz New Star Broadcasting #4 1200 UTC
9725 kHz New Star Broadcasting #4 1300 UTC



V15

V15 is back after many years of silence. It was last heard in 2000. The South Korean Intelligence agency reports that it has heard coded messages via Radio Pyongyang on 23-06 (2 mins) and on 14-07 at 1545 UTC for 15 mins on 3320 kHz.

Pyongyang broadcasted:

“jigeumbuteo 27ho tamsadaewondeul-eul wihan wongyeoggyoyugdaehag suhag bogseubgwajeleul allyeo deuligessseubnida. munjeleul buleugessseubnida. 459peiji 35beon, 913peiji 55beon, 135peiji 86beon...”

“We now provide a review on the topic of mathematics, as stipulated by the distance-learning university curriculum for the benefit of agents of the 27th Bureau”. “Turn to page 459, number 35; page 913, number 55; page 135, number 86; page 257 number 2”. According to KBS Seoul they transmitted 5-digit groups for 15 minutes.

A recording was aired by KBS TV in Seoul. I couldn't find it on the internet though. I found a short part on Yonhap News. Thanks to bclman for the tip.

Yonhap News, short recording of the transmission

<http://www.yonhapnewstv.co.kr/MYH20160719015700038/>

The item was a hit on the internet as a large number of news agencies covered the story.

NOS

<http://nos.nl/op3/artikel/2118677-mysterieuze-boodschappen-op-noord-koreaanse-radio.html>

Meng News

<http://mengnews.join.com/view.aspx?aid=3021471>

BBC

<http://www.bbc.com/news/world-asia-36836367>

Washington Post

https://www.washingtonpost.com/world/asia_pacific/mystery-numbers-in-n-korea-broadcasts-carry-cold-war-echoes/2016/07/19/531573c6-4d96-11e6-bf27-405106836f96_story.html

Associated Press

http://hosted.ap.org/dynamic/stories/A/AS_KOREAS_MYSTERY_NUMBERS_ASOL-?SITE=VALYD&SECTION=HOME&TEMPLATE=DEFAULT

Popular Mechanics

<http://www.popularmechanics.com/military/weapons/news/a21936/north-korea-coded-radio-messages/>

South China Morning Post

<http://www.scmp.com/news/asia/east-asia/article/1991955/pyongyang-code-intrigue-surrounds-north-korean-broadcasts>

Kima TV

<http://kimatv.com/news/nation-world/mystery-numbers-in-n-korea-broadcasts-carry-cold-war-echoes>

Navy Times

<http://www.navytimes.com/story/military/2016/07/19/mystery-numbers-north-korea-broadcasts-carry-cold-war-echoes/87299344/>

Guardian

<https://www.theguardian.com/world/2016/jul/19/north-korea-radio-broadcast-numbers-code-spies>

and many, many more.



V24

5900 kHz, 22-07, 1600 UTC, i.p.

Logged by MKD2 and partly jotted down by sinjeong2015:

i.p. 20525 88321 10190 76299 45147 44395 55207 08937 40031
12903 54638 86023 39896 73281 93671 29318 73800 26521 39494
52781 56221 81462 80003 66219 45972 25455 86282 28847 30520
29020 35355 78342 00883 97108 25662 48246 25986 19878 49234
24821 14440 93212 93907 ...



V28

**3277 kHz, 05-07, 1230 UTC, copied
i.p. by bclman.**

05 01 697 02	09 12 774 05	07 11 618 09
06 01 994 02	10 32 118 05	08 11 648 09
07 12 734 02	01 31 598 06	09 11 668 09
08 12 748 02	02 31 587 06	10 31 224 09
09 12 754 02	03 31 542 06	1 2 3 1 2 3 rakdu mountain rakdu
10 22 121 02	04 31 742 06	mountain
01 42 122 03	05 01 784 06	049 crow 62 teongsim 29
02 42 127 03	06 01 714 06	049 crow 62 teongsim 29
03 32 762 03	07 11 514 06	1 2 3 1 2 3 rakdu mountain rakdu
04 01 998 03	08 11 548 06	mountain
05 01 976 03	09 11 569 06	01 31 896 10
06 01 786 03	10 31 324 06	02 31 861 10
07 12 729 03	1 2 3 1 2 3 rakdu mountain rakdu	03 31 986 10
08 12 748 03	mountain	04 10 328 10
09 13 769 03	049 crow 62 teongsim 29	05 10 397 10
10 32 129 03	049 crow 62 teongsim 29	06 10 ? 10
1 2 3 1 2 3 rakdu mountain rakdu	1 2 3 1 2 3 rakdu mountain rakdu	07 11 724 10
mountain	mountain	08 11 692 10
1 2 3 1 2 3 rakdu mountain rakdu	01 31 536 07	09 11 754 10
mountain	02 31 526 07	10 31 228 10
049 crow 62 teongsim 29	03 31 528 07	01 31 888 11
049 crow 62 teongsim 29	04 00 543 07	02 31 861 11
1 2 3 1 2 3 rakdu mountain rakdu	05 01 778 07	03 31 892 11
mountain	06 00 542 07	04 10 388 11
01 32 774 04	07 91 624 07	05 10 373 11
02 32 ?86 04	08 11 596 07	07 11 714 11
03 32 762 04	09 11 574 07	08 11 688 11
04 01 764 04	10 31 328 01	09 11 769 11
05 01 738 04	01 31 621 08	10 31 218 11
06 01 752 04	02 31 612 08	431 01 30 326 09 21
07 12 714 14	03 31 512 08	431 02 30 494 21 12
08 12 796 04	04 00 563 08	431 03 31 814 21 12
09 12 774 04	05 10 322 08	431 04 10 252 21 12
10 12 128 04	06 00 595 08	431 25 10 933 21 12
01 31 552 05	07 11 628 08	431 06 10 248 21 12
02 31 561 05	08 11 584 08	431 07 10 535 21 12
03 32 786 05	09 11 664 08	431 09 11 774 09 12
04 01 728 05	10 31 318 08	431 10 31 137 21 12
05 01 726 05	01 31 854 09	1 2 3 1 2 3 rakdu mountain rakdu
06 01 869 05	02 31 856 09	mountain
07 11 538 05	03 31 969 09	sun 06 second hand 09 00 001 par-
08 12 786 05	04 00 566 09	rot
	05 10 392 09	
	06 00 568 09	

MORSE STATIONS



M01

6780 kHz, 10-07, 0700 UTC

025 (R) 134 134 30 30 =
13941 41499 34581 30005 68821 23963 48003 27791 31347 63276
58909 10563 00564 76879 93836 23125 19440 42854 78205 40303
36695 16544 39641 30356 11054 70538 92594 48244 94834 13025
134 134 30 30 000



M01a

5110 kHz, 26-07, 2040 UTC

431 431 431 431 111 999
431 431 431 431 111 999
431 431 431 431 111 999
431 431 431 431 111 999
431 431 431 431 111 999
431 431 431 431 111 999
431 431 431 431 111 999
431 431 431 431 111 999

5131 kHz, 26-07, 2105 UTC

(lots of unreadable characters)

999 x7x20 =
79114 49x5x 45454 x2916 95958 x2633 87322 x6406 12126 3x23
x7128 46060 6065x 44031 875x1 0326x 91208 x8557 70407 =
97420 =
03602 74192 58470 680x2 53930 29986 78241 01158 0595x 10989
025x7 7733x 90788 66008 8x8x5 04332 10609 x3318 29164 18888 =
80x20 958 958 958 111 999 =
52183 91505 42500 91135 x0439 23536 21538 4240x 2262x 62x68
211x1 78947 47455 07393 67x38 60645 6258x 45316 54x84 69944 =
x7020
958 958 958 111 999
958 958 958 111 999
x2373 x8696 96761 14939 7543x 83x59 944bx 89243 53827 1x592
x2696 6x790 x9536 09802 05678 7x692 19559 4470x 50405 51x=
4302x
958 958 958 111 000

5131 kHz, 26-07, 2133 UTC

958 958 958 111 000

5751 kHz, 27-07, 0845 UTC

999 301 301 301
111 999
301 301 301
111 999
111 301
111 999
301 301 301
111 999

5391 kHz, 27-07, 0855 UTC

111 999

5391 kHz, 27-07, 1005 UTC

(Grouping a bit uncertain)

52320 =
43396 70713 38325 01383 76089 93186 37156 43500 52570 62552
06525 12349 64225 06927 20077 86965 058911 06981 3 =
52320

5391 kHz, 27-07, 1018 UTC

975 975 975

5183 kHz, 27-07, 1319 UTC

346 346 346 86769 86769
346 346 346 86769 86769
346 346 346 86769 86769
87010 87010 87010 87010
87010 87010 87010 87010
87010 87010 87010 87010
87010 87010 87010 87010
87010 87010 87010 87010
87010 87010 87010 87010
87010 87010 87010 87010
346 346 346 86029 86029
346 346 346 86029 86029
346 346 346 86029 86029
346 346 346 86029 86029
346 346 346 87231 87231
346 346 346 87231 87231
346 346 346 87231 87231
346 346 346 87231 87231
346 346 346 87231 87231
346 346 346 87 231 87231
00000

5263.9 kHz, 28-07, 0745 UTC

489 489 489
77 182 77 182
489 489 489
77 182 77
333 0106 333 0106
333 0106 333 0106

5263.9 kHz, 28-07, 0756 UTC

i.p. 110 5FGs = 52110 = 52110 = x2x 111 000

5263.9 kHz, 28-07, 0824 UTC

111 489 489 489
111 489 489 489
111 489 489 489

5263.9 kHz, 28-07, 0825 UTC

111 77168 77168
111 77168 77168
111 77168 77168
111 77168 77168
111 77168 77168

5263.9 kHz, 28-07, 0936 UTC

489 489 489 77156
333 333 11
111 999
139 10 =
46853 31035 47965 22134 32134 18974 06354 16980 139 10
111 000



M01b

5232 kHz, 05-07, 1255 UTC

278 278 278 278
711 10 =
54069 48011 32479 84561 86546 65418 64510 65416 85498 54635 = =
711 10 000



M12

12205/13559/14728 kHz, 04-07, 1100/1120/1140 UTC

973 973 973 1 (R) 7446 116 7446 116
57815 81729 89615 40627 31847 16384 15266 88990 61135 98371
25755 31435 16349 53572 36994 72918 03871 07094 37191 82830
29516 78389 97233 74136 70652 38884 51132 51515 21059 68267
81079 79547 07134 80522 02492 66367 77774 92672 71859 12204
37572 27110 71990 95585 39146 32934 09549 37589 94083 17431
59268 45861 95754 53553 14256 83105 76107 18174 78935 48728
66324 92037 86353 46778 22081 12527 40541 80446 20458 36325
66299 59614 68594 14858 42400 31177 55055 15600 58298 88810
88675 21694 49191 44303 44016 72914 50532 67483 02419 43270
79619 71334 29477 27877 34870 48451 10855 05516 07234 59632
20078 37429 60173 63509 91592 02034 75214 30438 80150 18073
04552 35279 59579 49202 36772 82483
000 000

8053/9178/10287 kHz, 05-07, 0800/0820/0840 UTC

816 816 816 1 (R) 5566 52 5566 52
18022 04423 26395 50753 12326 04644 66501 80965 40358 13488
73575 82028 29517 48697 80694 05461 41184 41389 41185 34024
95112 04383 63128 54704 04547 69967 64683 56176 03210 98924
48715 94527 84851 55216 71738 48351 72457 42117 38701 30229
26262 37227 26219 77581 31895 34533 04429 69802 14333 46226
26985 60210
000 000

13926/12126/10926 kHz, 07-07/09-07, 1310/1330/1350 UTC

919 919 919 1 (R) 7986 155 7986 155
37007 83172 43868 70699 02278 84088 44190 41441 26361 84810
56820 18974 80667 69669 26630 46853 93958 00060 57111 86399
95403 55005 94796 97211 07755 28105 34311 11484 60885 87060
39552 11273 28455 40710 36677 96815 79505 04982 52494 48204
75090 62937 10515 22622 13122 61785 30767 89198 31463 07479
65506 66624 50418 14953 71157 90318 12636 81010 63432 72620
27414 93440 32483 73693 81536 62339 16570 62548 09579 77146
61575 59323 06388 95808 39867 09047 33869 12622 07842 37332
31525 71995 13159 79911 55491 72682 01046 82082 17941 99190
85265 80512 47782 51115 69884 69604 01241 31940 49669 29331
29279 34358 64236 73430 94182 90100 82626 57483 92418 53027
79614 75054 09985 71895 79851 10067 41926 17824 09442 51230
85863 57478 43641 62109 87072 81459 59054 57372 15291 11508
42595 81372 82775 94966 39963 30690 93345 37283 75422 41142
32439 30184 89551 29744 82803 75735 03298 09707 27151 17172
79796 75075 72760 79362 47594
000 000

Note: the first transmission on 07-07 at 13926 kHz, 1310 UTC went wrong.

919 919 919 1 (R) 7986 155 7986 155
37007 83172 43868 70699 02278 84088 44190 41441 26361 84810
56820 18974 80667 69669 26630 46853 93958 00060 57111 86399
95403 55005 94796 97211 07755 28105 34311 11484
Stops after group 28, restarts, other M12 was sent during the first groups of the repeated callup.

919 919 919 1 919 919 919 1 919 919 919 1 919 919 919 1
then restarts the message beginning at group 21
55005 94796 97211 07755 28105 34311 11484 60885 87060
39552 11273 28455 40710 36677 96815 79505 04982 52494 48204
75090 62937 10515 22622 13122 61785 30767 89198 31463 07479
65506 66624 50418 14953 71157 90318 12636 81010 63432 72620
27414 93440 32483 73693 81536 62339 16570 62548 09579 77146
61575 59323 06388 95808 39867 09047 33869 12622 07842 37332
31525 71995 13159 79911 55491 72682 01046 82082 17941 99190
85265 80512 47782 51115 69884 69604 01241 31940 49669 29331
29279 34358 64236 73430 94182 90100 82626 57483 92418 53027
79614 75054 09985 71895 79851 10067 41926 17824 09442 51230
85863 57478 43641 62109 87072 81459 59054 57372 15291 11508
42595 81372 82775 94966 39963 30690 93345 37283 75422 41142
32439 30184 89551 29744 82803 75735 03298 09707 27151 17172
79796 75075 72760 79362 47594
000 000

11435/10598/9327 kHz, 07-07, 1800/1820/1840 UTC

938 938 938 1 (R) 1820 150 1820 150
27502 64756 84693 92582 86793 01103 86356 18692 31319 62138
01024 84709 98666 55781 81538 70123 51438 38140 94653 41245
22255 95643 38724 15739 62020 82375 19963 25517 42790 53836
35369 35049 38530 14942 33231 26582 16232 75660 51054 04017
92974 51093 28295 76150 34558 54145 93462 05887 41336 62448
74349 13540 23505 40042 35095 95831 80297 87354 61127 55008
43563 05531 44975 19022 68400 30678 84437 90224 47644 10595
85572 36241 49203 24771 24984 46082 85439 27480 63503 80775
16197 26938 45428 57742 96821 10085 07474 29985 72724 59796
64749 89512 34242 79998 31093 05363 41653 65439 66657 37230
01433 13411 41694 34558 31300 42147 38403 17466 56348 01024
38779 09794 00309 41314 27767 31427 60793 49471 74615 83537
86829 04844 97625 56038 85068 64327 66279 96732 04776 52470
90598 25005 75888 63915 06751 48831 24536 60131 68322 59254
93064 21624 38213 22777 44784 64832 60502 76065 77690 10422
000 000

9176/7931/6904 kHz, 07-07, 1900/1920/1940 UTC

257 257 257 1 (R) 7472 114 7472 114
69911 77369 49502 53233 44841 62873 98184 74245 69310 13269
52931 70206 70795 77172 64562 28670 43457 33771 96813 17871
96831 50397 22119 97217 91660 93963 24015 06631 78489 17304
63065 62068 32585 96926 92319 93886 01644 04631 58511 22277
12773 36565 58074 73482 69461 79132 56199 09396 15575 68888
82363 14269 89763 94546 49433 93501 93251 23825 08484 88737
07613 51561 50708 09737 70246 00410 79387 09546 77238 76433
55147 83436 33845 92051 39639 70518 72633 56466 24990 31254
73468 71424 46096 11803 87440 55116 00673 65535 39724 54165
05542 87720 99306 80887 61762 15576 26354 14566 05003 79684
28461 87713 89775 22712 14336 58820 67171 34433 55458 06961
23852 78211 64553 63976
000 000

11435/10598/9327 kHz, 14-07, 1800/1820/1840 UTC

938 938 938 1 (R) 3223 148 3223 148
37865 35563 61240 47620 02802 64922 35182 53888 02958 84769
03436 83980 02703 37474 21297 96143 29297 52748 16549 76708
20105 95170 75880 01216 57049 72311 66883 20494 28535 32943
66578 81085 03371 58850 37568 28930 51293 59780 56880 78029
57068 11733 76588 63253 99918 27276 27371 51038 00407 08580
02823 37923 45116 21908 20660 17221 62030 63740 49577 42581
25974 00621 94330 85629 27140 89710 34622 37561 26254 69854
69188 55634 85627 18805 99931 41137 39394 10016 85056 52945
45055 57230 22461 68677 64307 96817 32696 30448 11345 47365
79363 01869 63247 56193 50054 03737 38809 06642 85381 10636
78674 52783 31688 42371 25406 26852 71545 19401 32401 88150
27094 01792 56217 38618 21304 74352 92267 93602 70185 04035
65217 84264 56067 46416 75184 28316 07540 75967 26931 38508
46952 41990 24027 57964 45414 06884 44674 92943 51295 09309
80532 42324 26293 88106 26871 15589 32272 88788
000 000

9176/7931/6904 kHz, 14-07, 1900/1920/1940 UTC

257 257 257 1 (R) 4007 120 4007 120

98162 23960 99555 68679 91632 74461 73786 08033 24150 82225
54073 45311 37814 04788 78014 39292 60014 49674 09119 81848
42143 98782 47073 73344 88083 95792 16006 50907 29623 04269
89687 99757 95561 68009 17235 33736 52073 41644 57972 58612
95173 02191 91577 66973 27033 62381 37228 36810 30757 26156
38867 49809 97025 94256 49415 28299 80225 44822 17112 29474
39580 30718 33148 16413 18770 12255 85827 12516 04599 04778
37905 03453 18034 80895 60473 81512 32119 17129 28680 01287
50437 27644 28438 97425 55677 08595 87092 28727 38731 73521
19744 20466 71483 04651 93757 34949 20112 81800 52018 79904
22811 52737 16218 13473 48877 67805 94349 69310 26986 23194
74647 47652 66986 63089 57450 25239 50781 54990 01060 23665
000 000

9217/10617/12217 kHz, 16-07, 0500/0520/0540 UTC

262 262 262 1 (R) 103 121 103 121

56010 11794 42409 27765 35769 77377 61534 08454 19200 47035
52320 57641 20187 14455 73857 39339 21435 13529 90551 66007
66153 77195 67732 60763 35048 25390 49077 94832 49812 88839
30561 75582 17732 55741 61721 49464 65431 13061 43147 09206
12234 50065 15840 14514 16935 93578 16400 11549 97729 28839
53298 27670 89425 37908 67929 65526 71631 20044 49362 46922
38920 38834 40289 47528 77390 85810 31321 31674 44452 87133
39999 15157 65409 96586 67699 07281 04251 83642 32013 83517
70899 59052 56736 87855 14248 37362 60798 22150 52586 99618
25447 27302 24622 15357 01953 62253 22817 67742 79945 62245
87392 90258 49531 46944 71714 02843 94053 09618 23181 38793
27638 12066 57440 64658 32719 20422 95305 50329 44645 49820
68259
000 000

8053/9178/10287 kHz, 26-07, 0800/0820/0840 UTC

816 816 816 1 (R) 4922 59 4922 59

28899 67638 21070 27180 27849 26755 58593 98611 98722 66558
96335 03330 33893 72229 97403 91270 55846 18353 41546 98003
92457 18289 55468 38689 01661 39012 69747 18802 52094 54870
51673 13712 16014 28256 96999 75551 66240 87132 20571 26559
62338 59523 05000 86737 67638 19032 98123 38369 45800 00788
31129 86240 64403 52412 76218 24065 20410 17417 71922
000 000

15821/13921/12221 kHz, 27-07, 1400/1420/1440 UTC

892 892 892 1 5890 93 5890 93

88058 70944 60945 67424 55931 74048 41693 16933 22714 09670
10898 60485 49678 40475 10071 11062 63527 55869 69898 60442
15253 45784 66044 50957 46001 08191 96448 47966 04563 14889
80715 13857 73570 57160 81240 70668 14527 82155 26362 88821
41114 83604 31647 66946 37276 64502 16190 04367 12617 07231
46785 34185 56674 99410 25146 65692 56655 70334 48365 19069
47346 06774 55908 81414 16019 48465 52842 12017 05939 62140
97352 00701 70692 95040 31817 55819 28500 73698 01476 00287
71694 77270 90587 44004 64826 92323 49102 56816 39279 32604
87692 60350 21473
000 000

8047/6802/5788 kHz, 28-07, 2000/2020/2040 UTC

463 463 463 1 (R) 2620 66 2620 66
55390 66859 37035 80434 26214 75720 64512 19424 28367 64731
68720 89431 32703 15122 73311 96997 23976 91730 21094 51373
97249 64327 65607 23138 98423 51025 98130 74619 09752 18412
14366 78688 40618 45238 98987 35287 22466 41668 65400 72711
05240 57933 96932 77029 34721 79100 05539 88145 57548 89462
33567 63225 78707 22225 35121 02319 00789 22805 58052 27371
57790 63365 97419 77510 87039 94508
000 000

9217/10617/12217 kHz, 30-07, 0500/0520/0540 UTC

262 262 262 1 (R) 4825 139 4825 139
34143 10414 98862 99727 93747 67250 03380 28515 02945 78709
51186 53208 73115 63724 67045 00075 49493 08230 97436 22734
45796 05048 26949 92390 06869 85988 16790 71285 24351 22658
70024 17034 92725 94098 20085 94675 45631 87054 95765 45961
76471 95655 37831 35115 10840 83998 03176 26365 49888 72471
64944 20343 06058 55499 46612 09123 68187 56938 44269 01839
52120 18127 58594 19642 74975 73624 79272 25907 82899 13674
64626 38123 30753 94728 63577 41814 61873 61183 93985 24452
83728 58628 03110 45703 82243 59128 37057 28674 87990 50047
10287 04252 84748 46078 78270 34343 65871 13278 75536 84753
34908 13880 46305 59317 93608 46802 04723 41505 47530 48122
26306 24978 78566 44155 39973 37170 80532 65124 68356 42426
85281 15931 61454 47767 11016 31101 84755 75161 86992 86514
68737 19810 98101 28939 95712 31952 42389 87940 85541
000 000



M14

5430/5560 kHz, 02-07, 0800/0900 UTC

171 (R) 427 427 68 68
37612 80644 32250 72880 72119 55276 17439 87341 90653 40498
10100 53082 42643 61771 22098 53762 43309 87109 00538 72530
52091 63871 29445 64410 82070 51860 00340 82630 92215 42627
51161 82994 40871 21905 64420 52761 19081 74409 53801 26331
50362 77409 83210 63091 10103 62175 83630 98901 53787 62181
52760 00830 93117 71152 43871 52891 15227 26021 58901 01200
42729 87001 20940 37116 53092 26061 46671 20801
427 427 68 68 00000

5240 kHz, 03-07, 2300 UTC / 5824 kHz, 04-07, 0000 UTC

376 (R) 427 427 68 68
37612 80644 32250 72880 72119 55276 17439 87341 90653 40498
10100 53082 42643 61771 22098 53762 43309 87109 00538 72530
52091 63871 29445 64410 82070 51860 00340 82630 92215 42627
51161 82994 40871 21905 64420 52761 19081 74409 53801 26331
50362 77409 83210 63091 10103 62175 83630 98901 53787 62181
52760 00830 93117 71152 43871 52891 15227 26021 58901 01200
42729 87001 20940 37116 53092 26061 46671 20801
427 427 68 68 00000

7485 kHz, 15-07, 1700 UTC, with errors in repeats

382 (R) 190 190 50 50
 12345 43435 67674 83838 98765 26326 65465 12321 88855 04275
 90123 27446 72311 45454 87456 12345 54321 65432 16161 23456
 34344 65771 90901 89765 **62312 12312** 13141 15121 09100 76500 09876
 67891 33001 66655 09223 12345 01020 13456 77881 33031 56561
 13690 **12051 12091** 56342 76547 73456 23874 19634 80989 **56890 56850** 34087
 190 190 50 50 00000

6856 kHz, 26-07, 1820 UTC, with errors in repeats

163 (R) 230 230 65 65 230 230 65 65
 12345 43435 67674 83838 98765 26326 65465 12321 88855 04275
 90123 27446 72311 45454 87456 12345 54321 65432 16161 23456
 34344 65771 90901 89765 **62312 12312** 13141 15121 09100 76500 09876
 67891 33001 66699 09223 12345 01020 13456 77881 33031 56561
 13690 12091 56342 76547 **73456 74456** 23874 19634 80989 56890 34087
 23985 34567 11221 35454 37456 00352 12323 55555 07706 46444
 76543 45665 77721 03264 78967
 230 230 65 65 00000

**M23**

M23 was active during several weeks in July.

Freq	Date	UTC	Calling	Freq	Date	UTC	Calling	Freq	Date	UTC	Calling
7438	6-7	1307	150 (R)	5921	10-7	1559	579 (R12)	5921	13-7	0559	579 (R12)
5921	7-7	2029	579 (R)	5921	10-7	1629	579 (R12)	5921	13-7	0629	579 (R12)
5921	8-7	0559	579 (R12)	5921	10-7	2029	579 (R12)	5921	13-7	1629	246 (R15)
5921	8-7	0629	579 (R12)	5921	10-7	2129	579 (R12)	5921	13-7	2100	579 (R12)
5921	8-7	1559	579 (R12)	5921	11-7	0559	579 (R12)	5921	14-7	0629	246 (R15)
5921	8-7	1629	579 (R12)	5921	11-7	1559	579 (R12)	5921	14-7	1629	246 (R15)
5921	8-7	2029	579 (R12)	5921	11-7	1629	579 (R12)	6890	30-7	1311	456 (R)
5921	9-7	0559	579 (R12)	5921	11-7	2029	579 (R12)	6890	30-7	1328	789 (R12)
5921	9-7	0629	579 (R12)	5921	11-7	2129	579 (R12)	6890	30-7	1328	456 (R15)
5921	9-7	1559	579 (R12)	5921	12-7	0559	579 (R12)	6890	30-7	1358	789 (R12)
5921	9-7	1629	579 (R12)	5921	12-7	0629	579 (R12)	6890	31-7	1258	456 (R15)
5921	9-7	2029	579 (R12)	5921	12-7	1559	579 (R12)	6890	31-7	1328	456 (R15)
5921	9-7	2129	579 (R12)	5921	12-7	1629	579 (R12)	6890	31-7	1358	789 (R12)
5921	10-7	0559	579 (R12)	5921	12-7	2029	579 (R12)	6890	31-7	1428	789 (R12)
5921	10-7	0629	579 (R12)	5921	12-7	2129	579 (R12)				

Id 579



Id 246





M89 - Chinese military

3642 kHz, 03-07, 1528 UTC

V DKG6 (x3) DE 3A7D (x2)
 HW MSG GA
 NR 033/CCK CK 299 19 0704 0004 RMKS 6845 TO 6475 6617
 6459 6825 6255 =
 AAAU 6NT5 4N73 DNAT N45U AUTU 35ND A73T 7D6T AUUA
 745N (Cont'd)
 AR QSL ? HR WK NR 290
 V DKG6 (x3) DE 3A7D (x2)

3750 kHz, 08-07, 1443 UTC

W K
 RPT 32 W K (Other station not on this frequency)
 R RPT 34 TO 41 W K
 RPT 34W TO 35 W K
 RPT 34 W ...
 RPT 33W K
 RPT 38W K (Cont'd asking to repeat groups)
 QSL 2350 K
 FF NR .54/EX 225. K
 ..34..III = F
 ..A/534 III F
 ../534 AR
 QSL ? K
 GA K

10180 kHz, 16-07, 0958 UTC

V DKG6 (x3) DE 3A7D (x2)
 6845 TO 6617 =
 CL/1830/ZBT/6845/6617 AR
 HR SVC GA
 NR 063 1800 RMKS 6845 TO 6617 =
 CL/1830/ZBT/6845/6617 AR
 QSL ? HR WK NR 230

8888 kHz, 18-07, 1255 UTC

65A4 7TAN 365D U47T AU43 5D67
 III = 5U3N 46AD 7T5A 3N46 DU7T (Cont'd)
 III = 6D3T N47U 5A6D T34T 7UA5 (Cont'd)
 IIII = 5T.. 636U 7..4 ...

5801//10180 kHz, 21-07, 1054 UTC, i.p.

UAAD UN4T A4U4 5DTD T4AU 75AU 6AUD U563 (Cont'd)
 III = 33TD 7UN5 D5TU TT34 4T4N DDND (Cont'd)
 III = 46NT 4NN4 35TN 75A5 U6UU U4TT (Cont'd)
 AR O EEEE QSL ? HR WK NR 31

6720 kHz, 26-07, 1231 UTC, i.p.

GA
 R R
 NR 185 CK 90 51 0726 2030 RMKS 6678 TO 5115 K
 R 1W GA =
 355D 67D3 4U3D 7336 5ATU DT3U 5U5N 7DAT (Cont'd)
 R
 21W GA =
 76A7 T663 6T3U NDA7 (Cont'd)



M95

4243//9054 kHz, 16-07, 1147 UTC

V HR MSG TOYR PSE CY
 NR 32 CK 128 35 0716 1518 =
 UTU TA6 3U6 3A4 TTU 773 357 373 4TA 34A (Cont'd) AR
 HR MSG GA
 NR 089 CK 23 35 0716 1522 =
 5TD UTT TA6 3U6 7T3 7TA (Cont'd) AR
 HR MSG GA
 NR 045 CK 19 35 0716 1643 =
 UT5 TA6 (Cont'd) AR AR AR AR AR

4243//9054 kHz, 17-07, 1146 UTC

VVV HR MSG TOYR PSE CY
 NR 28 CK 114 35 0714 1507
 UTU TA4 3U6 3A4 TTU 773 (Cont'd)

8073 kHz, 17-07, 1134 UTC

V BNGC (x3) DE XSV85 (x2)
 HR MSG GA PSE CY
 NR 552 CK 137 35 0714 1554 =
 TA4 3U6 ?
 NR 0552 CK 137 35 0714 EEEE
 0552 CK 137 35 0714 1554 =
 TA4 3U6 (Cont'd)

8073 kHz, 20-07, 1135 UTC

V BNGC (x3) DE XSV85 (x2)
 HR MSG GA PSE CY
 NR 0564 CK 100 35 0720 1521 =
 TUT 3U6 3AN 3U7 TAU 773 TA7 773 TU4 773 TU5 773 35U
 4AA (Cont'd)

4243//9054 kHz, 22-07, 1145 UTC

NR 071 CK 17 35 0722 1636 =
 UT. TUU 3.6 3A4 TTA TTU TT3 773 343 DN7
 344 37U 36U 4AD 445 4D4 3DA AR AR AR AR

8073 kHz, 22-07, 1135 UTC

V BNGC (x3) DE XSV85 (x2)
 HR MSG GA HR MSG GA
 NR NR 0568 CK 116 35 0722 11
 NR AGN
 NR 0568 CK 116 35 0722 1549 = =
 TUU 3U6 3AN 3U7 TAU 773 35U 4AA NN3 445 (Cont'd)

8073 kHz, 25-07, 1143 UTC

V BNGC (x3) DE XSV85 (x2)
 HR MSG GA PSE CY
 NR 575 CK 317 350725 1653 =
 TU5 3U6 3AN 3U7 TAU 773 TA7 773 TUT 773 (Cont'd)

5555 kHz, 21-07, 1530 UTC, i.p.

CK 20 18 0721 2255 RMKS 0457 TO 6918 K
 GA (Other station also on this frequency)
 OK QT UT3N D7A5 6U34 U57T 6DAN DT34 56UN A75D
 (Cont'd)
 AR (Probably QV5B)
 RPT 1W RPT 1W
 RPT 4? 4T3N AR
 RPT 2EEEEEE RPT 2W
 RPT 2 EEEE RPT 2 = D7A5 K
 OK QSL 2334
 OK GA
 RPT OK GA K
 OK HR MSG GA
 NR 0684/CCK CK 20 18 0721 2255 RMKS 6918 TO 0457
 CY HW ?
 GA =
 4T3N D7A5 6U44 T57T 6DAN (Cont'd) AR
 R OK QSL QSL 2340
 OK SK SK VA VA GB

4242 kHz, 22-07, 1141 UTC

10 outstations in this network. Interesting to see how each station replies with a different callsign that the one used by the control station.

05 05 05 (x2)	R R OK NIL SK K	R DE Q9ZD R K
VVV JNVB DE 4GJW K	VVV AXJ7 DE 4GJW K	R HR KPU QSA 3 K
R R DE NF9E QSA 3 K	R R CB3P K	R QSA 2 K
R HR KP N QSA 4 NIL SK K	R HR KPU QSA 1 K	R OK NIL SK K
R NIL SK PSE	R QSA ... QSA 1 K	R NIL SK
VVV 3SXS DE 4GJW K	R OK NIL SK K	NIL SK
R DE N... QSA 2 K	VVV IKR3 DE 4GJW K	VVV MGBB DE 4GJW K
R HR KP U QSA 1 NIL SK	DE R R DE VNF4 K	DE YRT8 K
VVV ZBYU DE 4GJW K	R HR KPU QSA 2 K	R HR KPU QSA 3 K
NR DE MUF7 QSA 3 K	R QSA 2 K	R QSA 2 K
R HR KPU QSA 3 NIL SK K	R OK NIL SK K	R OK NIL SK K
NOK VA PSE	OK NIL SK	OK NIL SK
VVV WQQ2 DE 4GJW K	VVV KNV7 DE 4GJW K	VVV RCN4 DE 4GJW K
R TRR DE DEBB K	R HR KA EEEEE R HR KPU QSA 3 K	R R DE DKZ2 QSA 3 K
R HR KPU QA 2 K	R HR KPU QSA 1 NIL SK K	R HR KPU QSA 2 NIL SK K
TR N QSA 3 K	VVV W2XJ DE 4GJW K	OK NIL SK PSE (1155z silent)

4243//9054 kHz, 25-07, 1148 UTC, i.p.

PSE CY
 NR 50 CK 36 35 0725 1529 =
 UTU TU5 3U6 3A4 TTU 773 354 N35 (Cont'd)
 III 353 373 4TA 336 N3D 4TN 445 3UN 353 (Cont'd) AR
 A HR MSG GA
 NR 007 CK 25 35 0725 1535 =
 5TD UTT TU5 3U6 3A4 35U N3D 354 374 (Cont'd) AR
 A HR MSG GA
 NR 080 CK 17 35 0725 1649 =
 UT5 TU5 3U6 3A4 TTA TT. TT3 773 357 373 N45 3.4
 4AD 446 467 4D3 3DU AR AR AR AR

8888 kHz, 25-07, 0826 UTC, i.p.

MSG NR 785/CCK CK 45 71 0725 1620 RMKS 7168 TO 3691 R BK EEEE6U7T K
 MSG NR 785CCK CK 45 71 0725 1620 RMKS 7168 TO 3691 K

R = = K K

MSG NR 785/CCK CK 45 71 0725 1620 RMKS 7168 TO 3691 AR K K K

MSG NR 785/CCK CK 45 7A 073 EEEEE 1620 RMKS 7A16D RMKS 7168 TO 3691 AR K

MSG R MSG NR 765/CK CK 45 7A 0725 1620 RMKS 71 EEE RMKS 7168 TO 3691 1111 3001 1110000

4243/9054 kHz, 26-07, 1156 UTC, i.p.

III = 373 4AA 445 TT5 773 (Cont'd) AR

A HR MSG GA

NR 009 23 35 0726 1515 =

5.D UTT TU6 3U6 3A4 354 (Cont'd) AR

A HR MSG GA

NR 0083 16 35 0726 1719 =

UT5 TU6 3U6 3A4 TTA (Cont'd) AR

A HR U WK AR

8073 kHz, 26-07, 1140 UTC

V BNGC (x3) DE XSV85 (x2)

HR MSGS GA PSE CY

7G NR 0582 CK 176 35 0726 1604 =

TU6 3U6 3AN 3U7 TAU 773 TA7 773 TU5 773 35U (Cont'd)

III = 4AA NN3 446 3D3 4DT 4D6 T3T N34 T33 (Cont'd) AR U U

A HR MSG GA

NR 0583 CK 54 35 0726 1622 =

TT7 N5U TU6 N53 TAD N54 7TT TT6 746 6T3 (Cont'd) AR

8073 kHz, 27-07, 1137 UTC

V BNGC (x3) DE XSV85 (x2)

HR MSGS GA HR MSG GA

NR 0588 CK 127 35 0727 1536 =

TU7 3U6 3AN 3U7 TAU 773 TA7 773 TU5 773 35U (Cont'd) AR

MSG AGN MSG AGN

NR 0588 CK 127 35 0727 1536 =

TU7 3U6 3AN 3U7 TAU 773 TA7 773 TU5 773 35U (Cont'd) AR

A HR MSG GA AHR MSG GA

NR 0589 CK 61 35 0727 1615 =

TT7 N5U TU7 N53 TAD N54 7TT TAT 746 6T4 (Cont'd) AR

MSG AGN MSG AGN MSG AGN

NR 0589 CK 61 35 0727 1615 =

T7 N5U TU7 N53 TAD N54 7TT TAT 746 6T4 (Cont'd) AR AR

Note: Normally sends only one message per sked, but occasionally two messages are sent. Have noticed over the last 3 days that message numbers have increased by 14. If two messages were sent during the two skeds, then the message count would have increased by six at the most. It appears that the number of skeds has been increased from two to possibly four. (JPL)



MC03 - Chinese Air Defense

3884 kHz, 06-07, 1950 UTC

FF 2180633 294 23449R 00900 42

FF 827 0643 299 1523 48

FF 441 0634 290 6799 40

FF 827 0634 290 4029 48

FF 441 0635 290 4714 40

FF 820 0635 290 4726 42

FF 441 0636 290 2021 40



UM10 - 10-minutes net

3629 kHz, 06-07, 1325 UTC SDXL
 3629 kHz, 06-07, 1555 UTC SDXL
 3629 kHz, 06-07, 1828 UTC SDXL
 3629 kHz, 06-07, 1856 UTC SDXL
 3629 kHz, 06-07, 1920 UTC SDXL
 3541 kHz, 06-07, 1858 UTC HDNA
 3629 kHz, 07-07, 1355 UTC SDXL
 3629 kHz, 07-07, 1750 UTC SDXL
 3629 kHz, 08-07, 1456 UTC SDXL
 3629 kHz, 08-07, 1553 UTC SDXL
 4116 kHz, 13-07, 1650 UTC HDNA //3542 kHz. New frequency

DIGITAL MODES



HM01

Dirección General de Inteligencia

Current HM01, V02a, M08a schedules

UTC	Sun	Mon	Tue	Wed	Thu	Fri	Sat	UTC
0000								0000
0100								0100
0200								0200
0300								0300
0400								0400
0500	10860	10860	11462	10860	11462	10860	11462	0500
0600	10345	10345	14375	10345	14375	10345	14375	0600
0700	9330	9330	11435	9330	13435	9330	13435	0700
0800	9065	9065	11435	9065	11635	9065	11635	0800
0900	9240	9240	11462	9240	11462	9240	11462	0900
1000	9155	9155	12180	9155	12180	9155	12180	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
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	8009	2300
UTC	Sun	Mon	Tue	Wed	Thu	Fri	Sat	UTC

Notes:

V02a is seldom heard and has no scheduled transmissions. It usually pops up on a fixed HM01/M08a schedule and transmits in LSB. There seems to be one exception: V02a irregularly transmits during the 2000 UTC slot on 7554 kHz in place of M08a. Mostly on a Thursday.

All HM01 schedules start at hh:57 and are repeated at hh:27

**HM02**

Modes:

FSK-19.8Bd/129Hz and FSK-CW

Note: each transmission starts with an undecodable FSK sequence, followed by a message in Morse .

7351 kHz, 01-07, 0432 UTC

149 52 =

84286 73709 95231 33274 92232 02014 52692 57995 84356 66382
25626 73032 13508 03472 11791 84550 34667 87961 05611 56044
02493 52981 49691 85191 73806 90615 12142 88697 16944 49844
03384 68627 76367 58272 47100 35533 09759 66879 21033 93849
14510 90328 61686 87744 47994 05549 94263 76842 14800 76550
50006 31857 =

149 52 149 52 = repeats message = 149 52 000

7351 kHz, 02-07, 0428 UTC

710 49 =

11262 90438 28239 85758 13122 48955 71033 40253 74056 24895
82397 94379 46510 19320 69307 45794 24759 94656 00930 03772
41701 95356 65003 56454 16008 97240 99895 74689 82012 84101
94067 12057 86604 40244 09601 93207 51936 91984 20758 23102
93297 05090 85783 99833 33144 23383 20390 47029 62476 =

710 49 710 49 = repeats message = 710 49 000

7351 kHz, 03-07, 0434 UTC

843 55 =

29230 33884 65488 60293 27555 95472 63585 56153 27824 01605
50222 39451 16349 57865 40449 76237 45353 76153 55408 43707
23521 78220 97999 56428 96154 97382 35983 27290 01752 79138
46639 94806 88585 79518 14238 67058 06888 53804 94221 17029
46227 15577 08340 93171 21797 84358 91928 54629 80538 40236
95050 90394 72249 86714 89042 =

843 55 843 55 = repeats message = 843 55 000

7351 kHz, 04-07, 0437 UTC

570 59 =

22395 20154 41039 30112 57038 17952 28742 02580 92790 15763
74184 98540 87241 22844 44345 84520 02328 43276 67279 52336
12227 87443 43357 20016 32702 90231 33659 59807 68451 55874
39213 72362 77830 47700 48137 55602 69917 66585 08842 49784
89448 18137 26944 18497 87811 15649 58795 20936 93604 90986
73652 93330 51210 75542 37276 04004 58845 54919 72492 =

570 59 570 59 = repeats message = 570 59 000

Note:

Garbled morse output. Restarted the morse part at 0442 UTC.

7351 kHz, 05-07, 0430 UTC

257 51 =

51112 01392 31328 25769 66071 59114 68492 39297 74159 13750
 60455 67304 62374 47031 91037 16482 33502 10247 89649 11174
 74206 75355 73138 87089 55078 31478 31426 97008 06461 11783
 38088 47323 45402 27477 37428 78537 85887 79334 21206 79404
 40290 54745 74640 55075 85205 45016 66686 41930 43108 72142
 09812 =

257 51 257 57 = repeats message = 257 57 000

7351 kHz, 06-07, 0440 UTC

487 59 =

24562 67874 25634 74385 13052 48709 30152 12935 80863 18062
 62667 80390 50685 74457 15635 60684 34735 26767 95677 54890
 47431 76805 20793 10739 84424 28369 14227 55362 79390 25434
 08490 32717 77894 41118 57382 92732 57535 61722 19886 25888
 24904 14671 71867 23398 55992 88598 57093 85807 63290 84600
 20809 72249 99220 79543 26055 63341 90598 00830 59269 =

487 59 487 59 = repeats message = 487 59 000

7351 kHz, 07-07, 0434 UTC

241 60 =

18542 31487 09634 25191 48221 14983 15547 41376 07994 86600
 17533 73393 45736 90939 52968 40730 91700 04506 09790 97463
 97995 32608 39029 14924 85474 15545 34822 31315 32129 47059
 45431 10462 55243 76654 54865 38314 53993 83195 51623 20177
 25869 15456 58032 14402 97339 70156 88522 71757 35621 25594
 32118 60025 91965 34345 47573 95066 12358 67973 14390 67628 =
 241 60 241 60 = repeats message = 241 60 000

7351 kHz, 08-07: No transmission**7351 kHz, 09-07, 0430 UTC**

364 57 =

18542 31487 09634 25191 48221 14983 15547 41376 07994 86600
 17533 73393 45736 90939 52968 40730 91700 04506 09790 97463
 97995 32608 39029 14924 85474 15545 34822 31315 32129 47059
 45431 10462 55243 76654 54865 38314 53993 83195 51623 20177
 25869 25648 12548 54875 55698 13486 12458 21547 48659 12458
 75845 89748 23698 47895 47854 12578 95748 =
 364 57 364 57 = repeats message = 364 57 000

Note:

The first 51 groups are identical to the message sent on 07-07.

7351 kHz, 10-07, 0432 UTC

549 54 =

24562 67874 25634 74385 13052 48709 30152 12935 80863 18062
 62667 80390 50685 74457 15635 60684 34735 26767 95677 54890
 47431 76805 20793 10739 84424 28369 14227 55362 79390 25434
 08490 32717 77894 41118 57382 92732 57535 61722 19886 25888
 24904 14671 71867 23398 55992 88598 57093 85807 63290 84600
 20809 72249 99220 79543 26055 63341 90598 00830 59269 =
 549 54 549 54 = repeats message = 549 54 000

Note:

Incorrect group count. Should be 59.

7351 kHz, 11-07, 0450 UTC

621 63 =

24562 67874 25634 74385 13052 48709 30152 12935 80863 18062
 62667 80390 50685 74457 15635 60684 34735 26767 95677 54890
 47431 76805 20793 10739 84424 28369 14227 55362 79390 25434
 08490 32717 77894 41118 57382 92732 57535 61722 19886 25888
 24904 14671 71867 23398 55592 88598 57093 85807 63290 84500
 20809 72249 99220 79543 26055 63341 90598 00830 59269 14227

55362 79390 25434 =

621 63 621 63 = repeats message = 621 63 000

Note:

It looks like they messed up on 10-07 and had to resend the message on 11-07.

7351 kHz, 12-07, 0430 UTC

253 58 =

65388 52734 04860 24225 56840 05306 23763 63248 25333 00338
 12214 50850 22424 56854 76328 53231 68311 71872 78650 03458
 16007 41121 88350 61005 00233 36665 23051 23525 66283 33244
 61327 54118 07602 55120 31585 54235 88578 65681 66601 05853
 40524 07114 36435 23334 30455 06873 85382 56360 10082 76575
 83521 82532 01431 61844 45076 70515 31266 02062 =

253 58 253 58 = repeats message = 253 58 000

7351 kHz, 13-07, 0430 UTC

9 9 9 685 52 =

65984 31487 09634 25191 48221 14983 15547 41376 07994 86600
 17533 73393 45736 26584 52968 40730 91700 04506 09790 97463
 97995 32608 39029 14924 85474 15545 34822 31315 32129 47059
 98547 10462 55243 76654 54865 12548 53993 83195 51623 20177
 25869 25648 12548 54875 55698 13486 12458 21547 48659 58456
 75845 89748 =

685 52 685 52 = repeats message = 685 52 000

7351 kHz, 14-07, 0437 UTC

218 57 =

24562 67874 25634 74385 13052 48709 30152 12935 80863 18062
 62667 80390 50685 74457 15635 60684 34735 26767 95677 54890
 47431 76805 20793 10739 84424 28369 14227 55362 79390 25434
 08490 32717 77894 41118 57382 92732 57535 61722 19886 25888
 24904 14671 71867 23398 55992 88598 57093 85807 63290 84600
 20809 72249 99220 79543 26055 63341 90598 00830 59269 =

218 57 218 57 = repeats message = 218 57 000

Note:

Incorrect group count. Should be 59.

Same message as sent on 06-07, 10-07 and 11-07.

10-07 also had an incorrect GC. That message was corrected on 11-07.

7351 kHz, 15-07, 0422 UTC

905 48 =

27687 30547 88377 14662 33342 11420 02613 83878 02707 37142
 86855 31584 36628 55818 61787 00702 55671 84427 85281 41427
 80244 67471 81872 46458 17022 55612 10835 77611 78464 33048
 84415 75678 22612 55867 53352 12761 61656 72526 35123 56258
 03203 55638 10731 55610 83272 66007 72646 38050 =

905 48 905 48 = repeats message = 905 48 000

7351 kHz, 16-07, 0427 UTC

547 51 =

87594 89283 81721 62470 85193 67754 37048 88868 88909 33016
 05723 00988 19666 16896 48400 63943 72176 36625 03366 32941
 71112 01493 69581 29635 78545 36734 41551 88042 03242 40233
 56653 78740 87998 25093 63105 52870 78797 91331 66961 14313
 22670 83143 16393 99776 40196 59549 23509 39215 37856 71136
 87850 =

547 51 547 51 = repeats message = 547 51 000

7351 kHz, 17-07, 0425 UTC

659 47 =

09733 64247 02170 67706 37755 39187 61671 13393 63308 02943
 46867 50941 34821 61714 60112 82985 94905 51935 98627 34092
 92936 05454 20448 58337 50194 84945 21473 56342 49855 23568
 11996 74331 71727 12134 56437 48143 10286 79244 30086 65930
 97621 00071 58947 26998 12548 12547 21563 =

659 47 659 47 = repeats message = 659 47 000

7351 kHz, 18-07, 0431 UTC

869 48 =

24562 67874 25634 74385 13052 48709 30152 12935 80863 18062
 62667 80390 50685 74457 15635 60684 34735 26767 95677 54890
 47431 76805 20793 10739 84424 28369 14227 55362 79390 25434
 08490 32717 77894 41118 57382 92732 57535 61722 19886 25888
 24904 14671 71867 23398 55992 88598 57093 85807 63290 84600
 20809 72249 99220 79543 26055 63341 90598 00830 59269 =

869 48 869 48 = repeats message = 869 48 000

7351 kHz, 19-07, 0430 UTC

489 57 =

24562 67874 25634 74385 13052 48709 30152 12935 80863 18062
 62667 80390 50685 74457 15635 60684 34735 26767 95677 54890
 47431 76805 20793 10739 84424 28369 14227 55362 79390 25434
 08490 32717 77894 41118 57382 92732 57535 61722 19886 25888
 24904 14671 71867 23398 55992 88598 57093 85807 63290 84600
 20809 72249 99220 79543 26055 63341 90598 =

489 57 489 57 = repeats message = 489 57 000

Same message as sent on 06-07, 10-07, 11-07 and 14-07.

7351 kHz, 20-07, 0431 UTC

357 62 =

07373 18164 55078 13064 37276 62704 76016 05482 30686 51856
 71525 28723 82672 11473 18466 07085 50814 34040 11156 87152
 38662 26262 72068 05563 53720 71285 51356 27085 43323 44361
 63613 87518 38354 73410 63788 77803 40347 01836 07041 22401
 12721 32505 00872 01361 80146 57243 60563 03650 70351 **12546**
15478 54875 12554 12548 12256 12255 12566 12254 22554 12365
12554 12554 =

357 62 357 62 = repeats message = 357 62 000

Note:

Groups 53, 61 & 62 are the same. 9 of the last 10 groups all start with 12 and of those 10, 5 end with 54.

7351 kHz, 21-07, 0430 UTC

385 46 =

24562 67874 25634 74385 13052 48709 30152 12935 80863 18062
 62667 80390 50685 74457 15635 60684 34735 26767 95677 54890
 47431 76805 20793 10739 84424 28369 14227 55362 79390 25434
 08490 32717 77894 41118 57382 92732 57535 61722 19886 25888
 24904 14671 71867 23398 55992 88598 =

385 46 385 46 = repeats message = 385 46 000

Note:

Again the same message as sent on 06-07, 10-07, 11-07, 14-07 and 19-07. Some of them had additional groups, but the first 46 groups are always the same. Carrier off at 0651 UTC

7351 kHz, 22-07, 0426 UTC

871 56 =

24562 67874 25634 74385 13052 58709 30152 12935 80863 18062
 62567 80390 50685 74457 15635 60684 34735 26767 95677 54890
 47431 76805 20793 10739 84424 28369 14227 55362 79390 25534
 08490 32717 77894 41118 57382 92732 57535 61722 19886 25888
 24904 14671 71867 23398 55592 88598 57093 85807 63290 84600
 20809 72249 99220 79543 26055 63341 90598 00830 59269 =

871 56 871 56 = repeats message = 871 56 000

Note:

The group count is incorrect again. This time 56 vs 59. The 000 at the end were sent two minutes after the message ended.

7351 kHz, 23-07, 0443 UTC

365 68 =

53714 76041 75462 44754 54647 06442 85520 37662 78243 37756
 76418 31154 40613 45215 25345 56254 70225 47118 01432 04765
 52481 68320 76110 86781 03481 81466 42813 43430 65410 53212
 56288 16183 87153 33122 53578 16205 74513 45831 87246 62681
 88512 75504 47477 60248 23664 01583 75841 88644 10304 03857
 78031 28440 15845 60638 28000 55830 13314 74350 53885 84385
 60102 87154 54212 68442 85316 50228 54444 66514 =

365 68 365 68 = repeats message = 365 68 (no 000 sent)

7351 kHz, 24-07, 0424 UTC

936 51 =

11605 63631 00030 04033 01125 08716 86283 47646 40612 85184
 56406 87680 58477 68533 03270 34210 17356 06354 16164 33113
 50283 84371 08024 16168 25522 01836 63875 28517 75023 24761
 10147 71305 71534 48052 58378 24102 62321 10602 02607 66732
 00117 11072 78502 40375 05242 04068 40433 62528 88823 28480
 66254 =

936 51 936 51 = repeats message = 936 51 000

7351 kHz, 25-07, 0426 UTC

784 49 =

82247 76594 81625 07533 74381 51275 32183 27658 91240 40617
 88919 19138 92045 23700 72256 23385 17228 77444 13528 74699
 87484 42925 67103 43452 22997 68928 06436 24737 35009 26716
 81218 81208 29754 86501 59050 12535 39158 19111 55505 40365
 65708 18702 79835 03370 05803 52272 50572 62788 30462 =

784 49 784 49 = repeats message = 784 49 000

7351 kHz, 26-07, 0513 UTC

Sent in FSK 50/129:

961 58 =

53714 76041 75462 44754 54647 06442 85520 37562 78243 37856

76418 31154 40619 45215 25345 56254 70225 47118 01432 04765

Stops; switches to CW and restarts the message:

961 58 =

53714 76041 75462 44754 54647 06442 85520 37562 78243 37756

76418 31154 40613 45215 25345 56254 70225 47118 01432 04765

62481 68320 76110 86781 03481 81466 42813 43430 65410 53212

56288 16183 87153 33122 53578 16205 74612 45831 87246 62681

88512 75504 47477 50248 23664 01583 75844 88644 10304 03857

60102 87154 54212 68442 85316 50220 54444 66514

961 58 = 961 58 = repeats message 961 58 = 000

Notes:

The first 50 groups and the last 8 groups are identical to the message sent on 23-07.

After the coded FSK start sequence, the operator started the message in FSK 50/129 mode and noticed his error after the 20th group, then switched to CW and restarted the message.

No = was sent after the message but it appeared between the two id's/group counts.

7351 kHz, 27-07, 0430 UTC

214 53 =

27460 10547 24430 06073 26208 25830 48353 02376 11470 24063

25783 24662 51208 38447 85005 44761 13764 10206 04588 00148

00366 32253 30122 01041 14344 21042 71065 00133 40324 53312

53170 23128 26880 63354 83133 50234 58013 84258 15642 45837

62502 01710 40886 37452 22716 68237 52736 47856 56546 00267

32274 74013 37382 =

214 53 214 53 = repeats message = 214 53 000

7351 kHz, 28-07, 0431 UTC

312 54 =

84187 03530 15450 77803 30407 44108 51317 13004 76573 26167

62100 21733 81578 81521 28652 14026 35843 23464 42186 61634

46871 75086 45070 06372 00170 51673 52856 24813 71570 10044

13252 23267 30182 74500 16664 07384 06030 88770 83444 86140

10782 07673 41483 71215 55768 16241 76122 16055 20603 81445

54161 51030 41713 06372 =

312 54 312 54 = repeats message = 312 54 000

7351 kHz, 29-07, 0427 UTC

176 63 =

73856 39588 45096 38366 13951 29285 13792 39854 04998 75321

31402 80962 03747 05190 97247 83750 92055 99041 44719 52148

64072 99465 67142 48871 12434 66416 40447 09053 65831 78138

64741 21201 40743 25235 66296 58140 31082 17503 87397 46723

98665 66186 33834 19699 40852 67426 92275 12224 22109 20613

18313 99868 23819 49414 56202 15992 54197 11400 57518 00119

12594 04568 95746 =

176 63 176 63 = repeats message = 176 63 000

7351 kHz, 30-07, 0442 UTC

839 57 =

53714 76041 75462 44754 54647 06442 85520 37662 78243 37756
76418 31154 40613 45215 25345 56254 70225 47118 01432 04765
62481 68320 76110 86781 03481 81466 42813 43430 65410 53212
56288 16183 87153 33122 53578 16205 74613 45831 87246 62681
88512 75504 47477 60248 23664 01583 75841 88644 10304 03857
60102 87154 54212 68442 85316 50228 54444 =

839 57 839 57 = repeats message = 839 57 000

7351 kHz, 31-07, 0425 UTC

231 54 =

31402 80962 03747 05190 97247 83750 92055 99041 44719 52148
64072 99465 67142 48871 12434 66416 40447 09053 65831 78138
64741 21201 40743 25235 66296 58140 31082 17503 87397 46723
98665 66186 33834 19699 40852 67426 92275 12224 22109 20613
18313 99868 23819 49414 56202 15992 54197 11400 57518 00119
12594 04568 95746 68877 =

231 54 231 54 = repeats message = 231 54 000

M42 & X06



Modes:

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

Russian Government & Intelligence



M42 – various modes

6950 kHz, 19-07, 1515 UTC, CW, i.p.

In the old days ROP used link id 00020, now apparently 10022

VVV ROP ROP ROP 2/102

11100 10020 78945 19243 01019 =

37185 29023 04742 81641 60899 72224 35199 (Cont'd)

(Russian voice, then data now of frequency - 1523z)

= 11100 10020 ..612 1924. 01019 =

EPTKM NTFDJ YHQK BQAYL T.. (Cont'd data on frequency making it hard to copy)

14440 kHz, 9-7, 1330 UTC

Russian diplo/intel using various Serdolik modes.

5921 kHz, 10-7, 2017 UTC

LKDW clg PRAT. Mode: CW

16046 kHz, 13-7, 0740 UTC

Russian Diplo/Intel. Mode: CROWD-36

6950 kHz, 19-7, 1515 UTC

VVV ROP ROP ROP 2/102 11100 10020 78945 19243 01019 = 37185 29023 04742 ... Mode: CW

M42b – FSK 50/500

Freq	Date	UTC	Details
5897	2-7	0628	Russian diplo/intel. PR6O de 7ZGR. Message in FSK, opchat in CW: QRU NIL SK (QX 6776 kHz)
6776	2-7	0628	Russian diplo/intel. PR6O de 7ZGR. Message in FSK, opchat in CW: QRU NIL SK (QX 5897 kHz)
5897	3-7	0628	Russian diplo/intel. PR6O de 7ZGR. Message in FSK, opchat in CW: QRU NIL SK (QX 6776 kHz)
6776	3-7	0628	Russian diplo/intel. PR6O de 7ZGR. Message in FSK, opchat in CW: QRU NIL SK (QX 5897 kHz)
3565	3-7	0731	Russian diplo/intel. RBV2 wkg RYF2. Message in FSK, opchat in CW: ZOR
14362	3-7	0800	Russian diplo/intel. OWSD wkg 1SS. Message in FSK, opchat in CW: QRU NIL SK (QX 14584 kHz)
14584	3-7	0800	Russian diplo/intel. OWSD wkg 1SS. Message in FSK, opchat in CW: QRU NIL SK (QX 14362 kHz)
5421	22-7	0455	Russian diplo/intel. UOZG wkg WDAK. Message in FSK, opchat in CW: QRU NIL SK (QX 5903 kHz)
5903	22-7	0455	Russian diplo/intel. UOZG wkg WDAK. Message in FSK, opchat in CW: QRU NIL SK (QX 5421 kHz)

M42c (F01) – FSK 200/500

14878/12185 kHz, 18-07, 0025/0035 UTC, transmitted from Cuba

11177 00117 73158 18033 01169
99093 47317 82531 21292 64696 99409 51072 33287 16191 21460
73652 24396 46746 29967 87526 74711 80666 09058 70466 00626
52414 20103 40406 22727 51900 62024 99950 37049 48900 82256
21813 07721 41136 38663 52372 65680 22324 82385 72887 73539
08165 52212 56588 99347 01101 87530 66182 85439 68518 52907
60073 27071 33763 96959 81753 80773 46555 89396 64150 76681
68253 73551 81768 24773 33778 96464 54209 77544 65651 49527
17006 10258 63203 19266 74131 49111 02125 73501 58671 90239
80315 77709 80314 89051 30199 20073 97649 33803 71512 21327
45964 90417 90556 61041 52435 75627 57453 86347 13981 74298
55220 71563 21088 56492 32722 82621 60892 88554 89897 64535
76951 15590 66277 67513
33114 00000

18562/16218 kHz, 22-07, 2230/2240/2330/2340 UTC, transmitted from Cuba

11177 00116 71825 22034 02109
52907 60073 27071 33763 96959 81753 80773 46555 89396 64150
76681 68231 73551 81768 24773 33778 96464 54209 77544 65651
49527 17006 10258 63203 19266 74131 49111 02125 73501 58671
90239 80315 77709 80314 89051 30199 20073 97649 33803 71512
21327 45964 90417 90556 61041 52435 76275 74531 86347 13981
74281 55220 71563 21088 56492 32722 82621 60892 88554 89897
64535 76951 15590 66277 67513 29200 08751 45040 37787 74313
07178 61083 00296 54370 50728 42573 89119 97096 62881 65793
74557 49199 49051 17828 68058 41511 09566 42551 60097 30624
50275 23907 00678 44019 18149 17971 44284 93983 60540 48440
38074 98387 54493 88879 16980 92939 99796 30668 33572 07387
21391 53248 35926 75631 79528 92820 54100 25362 39751 42828
29991 98573 54984 93249 48933 29732 55364 76423 70070 66381
34148 68751 93839 42594 18417 79408 75409 28003 11626 66837
54617 38999 98638 86688 21183 86080 73655 69350 44937 71569
38078 65583 57938 47494 48598 52318 13691 34981 79312 02659
23784 73636 69272 08453 54256 94040 53502 34062 32171 49906
45110 62676 94145 67165 41970 01113 76187 37194 08014 77395
85872 89691 18947 87499 09903 48279 06685 09760 80994 87248
14806 36654 77256 96764 74463 96230 16618 54511 11936 72441
91550 16659 76739 68532 76813 53896 92241 25192 34208 00000

18562/16218 kHz, 29-07, 2230/2240 UTC. Cuban schedule. Poor copy.

11177 00116 42358 29035 01699
64475 38273 53748 00164 58312 29554 _____
_____ 56468 63574 24027 20161 94996 94202 36892 86735 35959
79905 21020 63694 84084 48242 77993 98408 05909 18287 68489
83707 19630 14866 66178 29591 43782 88760 49122 24602 39868
69768 88988 16804 84429 64554 70576 43537 32830 86697 19371
23570 26073 71847 68963 96975 60527 66324 36043 63749 42938
24543 22474 16168 70496 95160 22227 36100 72310 74801 87347
13442 46498 42572 74405 60040 32086 99235 48107 24992 36677
46960 99517 30854 39462 38627 07674 31247 55807 73779 32078
20714 61128 87101 07907 69336 49846 99780 14359 43855 28318
27052 61178 86774 90027 16204 82233 27245 _____
_____ 51511 58933 67862 51000 82887 01508 07151
33948 23609 07020 00408 11993 99126 47932 87560 46968 96859
87078 58780 52857 25791 73969 98773 65284 06496 65962 88757
02291 38137 61492 01863 42059 44999 93412 57260 14153 _____

_____ 35167 00000

M42d (F06) – FSK 200/1000

Link 00000

11122/9067/6791 kHz, 14-07, 1830/1840/1850 UTC

Link ID 00000, Date 13th, Serial #2

1bc0 0000 d290 8205 35f8
18c5 1025 3660 0261 cec7 b4d8 dbac 0981 8923 a2dd
e01b 0db8 1391 0e88 08ce 7292 55bd 7b94 3595 fb18
9a8e 95ee 28d2 cccd 28d4 6cb5 33a3 13ba a89d 7a54
4d15 f2e0 c288 809e f21d af4c c900 2404 7caa 2548
d86c bd89 8060 4f76 f4e7 1916 6230 cd19

11122/9067/6791 kHz, 16-07, 1830/1840/1850 UTC

Link ID 00000, Date 15th, Serial #3, Groups 52

1bc0 0000 f248 9607 39ec
2ffa e3e0 e4a8 af12 b0e8 efb6 5a37 7a0d 13a9 b618
e42a c25c 4c26 cbf9 39f9 a990 78fd 84cd 8afd 3794
21a7 b48f ee08 4548 db71 5012 e25c d284 d035 8593
942a feba f091 cf48 b1f6 71a5 e508 1b9d 0ddf 5936
b8e7 05bf 01d8 cf92 825d ae5b ff4d f309 d7b9 9724
e5b0 7d00

Link ID 00000 is weird as always. I heard the same message on three different skeds with two different serial numbers.

10687/7992/5913 kHz, 20-07, 1730/1740/1750 UTC

Link ID 00000, Date 19th, Serial #38

1bc0 0000 9cd4 be5f 38e5
f382 0913 f08f ac0c 610f c894 7c00 5275 4d50 1ed5
35b7 fc4a 9771 1abd 8549 90a2 0a32 c386 3e47 d985
326c 999f bb29 381e 9699 12fd 0543 f389 89c2 89c3
7cd5 4e67 ad28 aa02 480a e84b ca91 ce9c a00e 5f76
5249 4a9e 7452 1696 e01a 07b1 be48 40ec 06c6 60bc
5900 8000

9944/7482/5460 kHz, 20-07, 1800/1810/1820 UTC

11122/9067/6791 kHz, 20-07, 1830/1840/1850 UTC

Link ID 00000, Date 19th, Serial #5

1bc0 0000 9cd4 be0c 38e5
f382 0913 f08f ac0c 610f c894 7c00 5275 4d50 1ed5
35b7 fc4a 9771 1abd 8549 90a2 0a32 c386 3e47 d985
326c 999f bb29 381e 9699 12fd 0543 f389 89c2 89c3
7cd5 4e67 ad28 aa02 480a e84b ca91 ce9c a00e 5f76
5249 4a9e 7452 1696 e01a 07b1 be48 40ec 06c6 60bc
5900 8000

Link 16404 / 16405

15795/13428/11060 kHz, 14-07/27-07/28-07, 0800/0810/0820 UTC

Block No 0 : Total Message Size 35 blocks : This transmission contains one message.

Block No 1 : Link ID 16405 : 11th of month : Msg Number 005 : Msg Type 07145 : Group Count (?) 224
48712 19816 53005 33717 05092 03857 32492 55867

1be9 4015 be48 6e05 e0ed
cf0d 4d68 710c fd7b 7700 a63e 546a b4b7 6758 b84c
5592 8207 32c5 3b20 4193 9132 bc2a fa3e 7a19 749a
470d 3c28 d657 02d6 f926 1847 7037 2cf9 0c3b 6340
6d98 52ff a9e3 0b41 60d4 b5c5 c130 b893 cb15 325e
3d4c 65b6 df70 05c8 41a5 b952 f613 d8b7 2949 b833
dab9 0d19 8821 e069 3bcf 9637 4439 f740 8954 a64f
e4bb 845f f554 08c2 dc81 910c eab6 1f67 4ab2 2b15
0814 a0f2 63dd 4661 c4ca 07c3 a7d6 a764 9758 da4d
0826 b7fa b388 b68b 17f9 2fa1 c784 7b9e c308 75bd
f20a e5b4 86b1 e1c7 8ebe 2cfd 5084 379c 678e a1c8
ab31 80f7 5e20 cfe2 9a03 3579 aea8 e50a 3157 e347
0fe6 66ea 0d31 8ed5 7392 4044 ef6e 73c6 d423 75a0
eec0 db62 61a0 d37c 90f1 6599 5a83 dd08 165b f999
65f5 794f 4c08 5f68 4a87 43a2 aeff 862a 457d d74a
986b 5068 d13d 8897 2e99 efb0 cd61 f510 a652 b3df
09cb c7a3 931e a078 92e6 63b5 98d2 0716 4c05 2e76
52df fa9c 6b27 0378 72c9 c9ba 89a5 e069 ceeb 1c02
8fd2 0489 2494 e896 c546 1aa5 8e71 34f6 1c35 770f
d6a7 884b adef bb99 3da6 a661 865b 4244 f961 7e7f
c322 639b b460 11b1 2cc2 3be1 14ac 0c75 c226 4141
1522 cd4a 0c81 892c 8162

Link 20492

14948/12176/10177 kHz, 13-07, 0915/0925/0935 UTC

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

Block No 1 : Link ID 20492 : 13th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
30356 00000 00000 03286 34753 33522 00893 14757

14948/12176/10177 kHz, 27-07, 0915/0925/0935 UTC

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

Block No 1 : Link ID 20492 : 27th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
06413 00000 00000 00315 31284 34818 00893 23890

Link 20501

17544/15626/13496 kHz, 03-07, 1530/1540/1550 UTC

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

Block No 1 : Link ID 20501 : 3rd of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
39180 00000 00000 03109 12857 35127 00893 40655

17544/15626/13496 kHz, 10-07, 1530/1540/1550 UTC

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

Block No 1 : Link ID 20501 : 10th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
01476 00000 00000 03701 26517 34688 00893 17588

17544/15626/13496 kHz, 17-07, 1530/1540/1550 UTC

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

Block No 1 : Link ID 20501 : 17th of month : Msg Number 140 : Msg Type 07145 : Group Count (?) 4
51200 00000 00000 00221 21447 01990 00893 19185

17479/15931/13567 kHz, 19-07, 2300/2310/2320 UTC

Null msg on link 20501

17544/15626/13496 kHz, 24-07, 1530/1540/1550 UTC

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

Block No 1 : Link ID 20501 : 24th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
39180 00000 00000 02402 12899 33454 00844 65447

17479/15931/13567 kHz, 23-07, 1700/1710/1720 UTC

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

Block No 1 : Link ID 20501 : 26th of month : Msg Number 150 : Msg Type 07145 : Group Count (?) 4
39181 00000 00000 01883 12857 00046 00893 32923

17544/15626/13496 kHz, 31-07, 1530/1540/1550 UTC

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

Block No 1 : Link ID 20501 : 31st of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
39181 00000 00000 02249 12857 33920 00893 09871

Link 24584

Link 32799

17438/15849/13376 kHz, 05-07, 1400/1410/1420 UTC

Block No 0 : Total Message Size 5 blocks : This transmission contains 2 messages.

Block No 1 : Link ID 32799 : 5th of month : Msg Number 105 : Msg Type 07145 : Group Count (?) 4
13420 00000 00000 03860 14796 03720 00893 20868

17438/15849/13376 kHz, 12-07, 1400/1410/1420 UTC

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

Block No 1 : Link ID 32799 : 12th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
55564 00000 00000 00482 09187 33769 00893 47983

Link 32816

17419/15707/13446 kHz, 27-07/28-07, 0600/0610/0620 UTC

1be9 8030 8510 e6be 3eea
2c1a d127 d367 c786 6588 e241 17a5 129b 2ad7 f528
b995 c269 978f d134 e953 a219 a347 6cf9 8e10 ec99
9ca3 0810 53c3 3f93 0e5c 7b82 729a 8ba7 f96c 59d0
d8da b0b7 5510 e017 44f9 6911 76c6 1512 7139 _542
fd28 _c6a _0_9 d_39 9629 f128 1_03 26a8 ce6a c126
a322 5279 2c9d 7b36 43f7 b201 cb29 a1d9 368c 9d81
105c d_cc c_27 20e9 6fb4 5___ 210e _c9_ __b7 a6__
9___ b353 1938 a832 cc83 160f 6dc1 a27c fb61 f239
78a6 abf7 1ce2 484f e49e afc6 3b49 1774 00e1 059b
6443 a6ea 0959 c55d fe21 209d 183a 404f d4e0 6e07
61c3 f369 2504 854b 19f3 6419 0182 7433 c06e d000
ad20 87d6 5115 4661 1e06 1a92 cd12 928b d4f7 19a6
8d30 172b a5c9 2180 a300 9ae0 9b70 6154 e953 f163
9459 0_f6 5c67 a_e6 e_75 b749 d493 e1d7 2623 2e74
9916 e059 e0c4 d2d1 8d5c e781 635f 04ab 1c66 762b
d4a6 1150 e75a af30 a8e5 d3f6 f2_4 a___ beb2 88__

3403 cc8_ 6b__ 30_f 66_c 2dd5 9640 43_3 54d_ 3d02
08 dc5b _1__ e1b6 52_c 9e05 f7__ 1__ a5c9 _180
a30_ 9ae0 9b_0 6154 b919 31f3 451e a75d cde9 0425
eea1 ee4b b748 7e18 b102 be36 67ae c497 894f f50d
3f83 45f5 52f9 63df e475 1d00 1191 a690 96c1 9205
b91c e157 52f2 5d9f 8e54 55bf 2834 cf9b 6f70 2613
9f58 36ba 4fe7 ab1e 32b7 6099 a165 7383 6b58 0b19
d9d2 9da5 47b9 3e4d 5e3a 01d2 fa19 092f 1522 9671
8062 c0f9 20a9 1219 ef48 0102 3bf3 37d8 Odd1 f53c
cdec db27 c6ae ed14 82e3 3152 6f8d cdd6 fb45 46fe
5fd4 55b9 e0b8 5e76 232a 3326 5f2d d912 499c 125f
7e5c 5f91 3cbe 5ced 73e3 7957 58d2 1139 e0e0 c379
9b35 96b4 e78c 5626 b280

Link 32821

17436/15789/13473 kHz, 09-07/10-07, 2100/2110/2120 UTC

Block No 0 : Total Message Size 33 blocks : This transmission contains one message.

Block No 1 : Link ID 32821 : 7th of month : Msg Number 062 : Msg Type 07145 : Group Count (?) 216
48072 39923 28366 48540 16767 34215 55969 33658

17436/15789/13473 kHz, 16-07, 2100/2110/2120 UTC

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

Block No 1 : Link ID 32769 : 16th of month : Msg Number 128 : Msg Type 07161 : Group Count (?) 4
56990 00000 00000 00511 13740 36159 00893 23951

17436/15789/13473 kHz, 23-07, 2100/2110/2120 UTC

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

Block No 1 : Link ID 32821 : 23rd of month : Msg Number 065 : Msg Type 07145 : Group Count (?) 4
48544 00000 00000 03487 13740 03269 00893 60163

17436/15789/13473 kHz, 30-07, 2100/2110/2120 UTC

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

Block No 1 : Link ID 32821 : 30th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
51653 00000 00000 02198 22795 33102 00893 32489

Link 32829

17436/15789/13473 kHz, 02-07, 2100/2110/2120 UTC

Block No 1 : Link ID 32829 : 2nd of month : Msg Number 062 : Msg Type 07145 : Group Count (?) 4
39180 00000 00000 00758 13740 36113 00893 24109

Link 36882

15964/13549/11524 kHz, 02-07, 1100/1110/1120 UTC

Block No 0 : Total Message Size 23 blocks : This transmission contains one message.

Block No 1 : Link ID 36882 : 1st of month : Msg Number 137 : Msg Type 07145 : Group Count (?) 146
24744 12082 28488 07152 43092 34327 34231 27648

Link ID 36882, Date 1st, Serial #55

1be9 9012 60a8 0a89 92eb
6f48 2f32 b99a dd49 f857 9627 1211 e5bf 1d30 5dc2
a6d9 d690 f4eb fa83 2cc4 0b40 d3b4 9c8f 5b3a bdc6
b937 92c3 9756 ed23 719d 3c1d 198c 9825 55d0 35d2
15e3 22cb 319f 9d4e b2bf bd56 0d55 a842 d4a8 6154
8eb2 7638 d2da 0a96 0091 8436 49fa 255a 19b0 0e2d
b385 3f01 bb90 d55c 41f7 b985 fabc 6f62 e5b1 a169
d146 9ce4 d2c2 f641 1f89 e682 60aa 54b9 0f96 8173
2061 bcd4 70ac 4900 691e 1c27 9431 2919 30b1 2f9d
b4a4 f684 e05b 49e0 0c13 3a43 aba5 b476 4962 4da1

a273 0286 fd68 cbd6 b917 400e f15c 2c07 3122 b1f5
e336 aafe 9a29 58cc 12b5 8021 20e2 73b2 bb3a a7cd
5600 9087 167b 2135 b7fb 9b45 5db4 f56c 0233 b6d1
db64 38c8 acaf 1643 9c13 b39e 095c 92c3 ac93 20f9
c7b0 b289 a380 9900

15964/13549/11524 kHz, 09-07/10-07, 1100/1110/1120 UTC

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

Block No 1 : Link ID 36882 : 8th of month : Msg Number 140 : Msg Type 07145 : Group Count (?) 148
55172 11602 39763 05580 31234 01459 54965 23046

15964/13549/11524 kHz, 16-07/17-07, 1100/1110/1120 UTC

Block No 0 : Total Message Size 28 blocks : This transmission contains one message.

Block No 1 : Link ID 36882 : 15th of month : Msg Number 142 : Msg Type 07145 : Group Count (?) 180
10444 14322 31058 06534 43092 36745 16714 16870

1be9 9012 28cc 968e b4e2
7952 37f2 b99a dcba 0214 3a27 1211 cf59 9d44 5dc2
a6d8 8b6c 6454 3a27 f3e6 f757 4621 d5c1 45e3 34a0
ba43 8564 78e6 f9aa c246 5d73 bf12 6836 6c45 c849
6436 ea14 9200 30db e726 19e5 9599 21ea d7f2 b820
3af4 605a 461d bc79 8158 71c3 9d0f 7aa5 a7b1 3304
2360 e5c5 2e78 a7dc 70b6 9785 937e 95c3 dff5 58b4
edb4 08c2 22e2 1756 36e2 2bcd 9a49 d2c5 a165 567a
ebec 46f3 d405 26c7 b3a0 79ec 0b67 e787 3d05 9743
c1c6 911d 3d01 647c 1542 cb20 61c8 c8e6 5347 3ac5
03d6 72c6 eb63 9d58 9e0c 4e0a d39f 52d9 94f0 ac60
0809 c629 b16c 6986 e1f6 5cb4 a613 b29e eb4b 91dd
5adc 03c1 9383 ab93 e1e9 3a8d d012 5454 295e 81a0
5149 a12a 1905 b246 de69 3da2 c92c 5a77 d4d7 6c11
4d4d 4622 9dd3 04f1 4d41 036b 63a2 a13c 46c9 db63
ce70 56d7 b3d3 9150 be4a a206 c813 e144 1048 9c66
fa1d 8b51 2fcd 8538 4ff1 3b15 3577 52d4 cee4 c408
06a7 a2d3 08c6 ede3 bc30

15964/13549/11524 kHz, 23-07, 1100/1110/1120 UTC

Block No 0 : Total Message Size 18 blocks : This transmission contains one message.

Block No 1 : Link ID 36882 : 22nd of month : Msg Number 145 : Msg Type 07145 : Group Count (?) 108
13560 15442 10998 06437 43092 03867 61714 10972

Link ID 36882, Date 22nd, Serial #58, Groups 99

1be9 9012 34f8 dc91 6ce2
2af6 3c52 b99a dcb5 66c4 8027 1211 ce84 5d51 5dc2
a6d8 ee56 1b34 8341 fd68 4c89 245a 5aa4 7374 17b1
9aea 2994 7482 86b7 3134 58c1 bacf 0c9b eba9 6376
239d 9bd3 d810 a3b4 700d aaa2 0e00 b62b 347e 4ce2
151e 26e4 66de 7ce4 8b2d f87a 9569 7821 49e3 af88
68a6 6433 c465 d781 90e1 258d 63ff 3271 3f32 4e64
a619 8f05 d2cf e515 b8a3 da1b a790 03fb 4ff5 f459
a5f1 f493 8aad 54af 7260 6b5b 0070 26bb 8d58 c56d
47d0 393f d2dc 8210 9442 2c92 9569 bac6 1bd1 10dd
656f b64b 7600 6d7c bd83 cf4b 827b 09ca a580

15964/13549/11524 kHz, 30-07/31-07, 1100/1110/1120 UTC

Block No 0 : Total Message Size 18 blocks : This transmission contains one message.

Block No 1 : Link ID 36882 : 22nd of month : Msg Number 145 : Msg Type 07145 : Group Count (?) 108
13560 15442 10998 06437 43092 03867 61714 10972

Link 40988

It's been almost two months since 40988 last had a message (May 17, 2016). They used to always send one every month. It will repeat on Friday at 0600/0610/0620 UTC. (info: Danix)

14456/12188/11084 kHz, 12-07, 2300/2310/2320 UTC

Link ID 40988, Date 8th, Serial #70

1be9 a01c 15c0 50af 97e6
315a 5261 9055 b5fa 66f3 1a6f bcba f50e 2831 be75
13aa d108 2d75 4e8f 6ed2 b478 6edb 68cb 2559 d302
0a2d 19eb eae4 a184 8cea 34b6 53b6 65bb 6eb6 d847
7448 4176 2a05 0fc8 9fb3 a5d1 f390 bd14 4c4c 9ee9
6f80 7af9 c45d 7327 8fa9 fdf2 2a09 e015 2840 7a83
8f17 3bd4 d211 d3be aa30 74e5 50ec 2d86 330f 492d
dd57 37d0 03dc 2867 cf17 9c83 8387 cca7 3582 d2d3
507c c627 5e46 6432 a946 ab8e e808 ca1a b2e9 46eb
fa4d 74dc 0aaa a074 e265 25b4 8b04 f7d0 b77e 751b
c9bc 57d3 3e65 89b2 1f65 1488 0579 e2e5 84fd 05c7
644b b801 f9f6 f660 b935 f154 fe46 ce82 bb20 5314
592f 7aa9 d318 d861 cfa2 d235 12dc bf78 5655 c7f5
b049 7457 b946 8e1c 8196 e3c6 ab1b 86e8 f731 3eda
83a5 6b47 ff76 95ac 6ff8 2ffb 5d85 6254

16291/14519/12186 kHz, 15-07, 0600/0610/0620 UTC

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

Block No 1 : Link ID 40988 : 8th of month : Msg Number 175 : Msg Type 07145 : Group Count (?) 151
05568 21089 12634 22958 16071 01961 23254 18138

14456/12188/11084 kHz, 19-07, 2300/2310/2320 UTC

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

Block No 1 : Link ID 40988 : 19th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
55564 00000 00000 01379 00624 35585 00893 50743

14456	26-07-2016	2300	M42d	FSK 200/1000	(Danix)	Russian diplo/intel. Null msg on link 40988
12188	26-07-2016	2310	M42d	FSK 200/1000	(Danix)	Russian diplo/intel. Null msg on link 40988
11084	26-07-2016	2320	M42d	FSK 200/1000	(Danix)	Russian diplo/intel. Null msg on link 40988

Link 45057

16089/14384/12173 kHz, 09-07/10-07/23-07, 0900/0910/0920 UTC

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

Block No 1 : Link ID 45057 : 8th of month : Msg Number 212 : Msg Type 07145 : Group Count (?) 154
02364 40033 04752 35849 55673 32878 09999 16337

Link ID 45057, Date 8th, Serial #85, Groups 141

1be9 b001 093c 50d4 9af5
1290 9c61 d07b 193c 0f36 c9d7 9fa7 060c 8628 058c
def7 4786 9860 c11e 736b e6a3 4b41 dd6e 8a30 f7ee
1e45 de77 a4b4 35c2 4240 322f b8ef 32b2 1d4e f3f0
0881 b065 4ce2 9531 9049 d9c4 db07 3ee5 229e 2afa
95aa bf97 47e6 a2b9 8cc2 84dd 35b3 b0e2 579b 5b8d
de80 b649 f034 728e 02cb 827a b352 2b12 6ee4 47f0
8a5d 672a 969b 5e34 7541 bf2b c501 9e63 66e7 79e4
aef2 8069 f117 8b12 9e1a a8cb fa53 11bb aa63 20e8
7e3d d2fe e0ca 1b26 5ea3 e670 f2a0 1279 5a45 cbd0
a6ab 77ca 3dd8 dcd9 5364 7bf5 0626 da20 47d6 7611
0395 3bd8 7a23 41d0 ab8e 8a98 1ed7 9233 6f3b 6356
343a c41a ee10 ad88 4e91 719b 9996 781a 7e60 10f6

ee02 bb78 0a81 40e8 d81a d035 135c c150 3f11 ba6c
e209 eb64 46e7 5a42 2840 83cc 0947 9216 50c6 6dab
4980

Link 45075

15844/13396/11089 kHz, 06-07, 0800/0810/0820 UTC

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

Block No 1 : Link ID 45075 : 6th of month : Msg Number 062 : Msg Type 07145 : Group Count (?) 4

39412 00000 00000 03430 14597 33190 00893 03288

15844/13396/11089 kHz, 13-07/20-07, 0800/0810/0820 UTC

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

Block No 1 : Link ID 45075 : 13th of month : Msg Number 007 : Msg Type 07145 : Group Count (?) 4

50664 00000 00000 00844 09055 33648 00893 40731

15844/13396/11089 kHz, 27-07/28-07, 0800/0810/0820 UTC

Block No 0 : Total Message Size 23 blocks : This transmission contains one message.

Block No 1 : Link ID 45075 : 26th of month : Msg Number 020 : Msg Type 07145 : Group Count (?) 144

21337 50481 14369 04742 32756 01519 55097 08146

Link ID 45075 had a message. Rarity! Serial #7 was on 04/05/2016, and Serial #6 was on 13/08/2014.

1be9 b013 5359 0414 90e3
3821 c531 a659 4a5c 57b0 e2cb 394a 453d e008 1076
d031 62c9 ce84 88f5 2284 0f14 d995 ccf3 88bd 07ec
da05 91f7 9461 cff3 ccf5 42ce 1359 adbd 9cf1 63b1
8697 b9ef c5b7 ba7a 7a32 7293 74b9 80a7 b6de 937c
fc4e c087 6793 9223 1c8e 5302 ced4 d407 3846 0904
1654 852f 8994 7547 7086 aae2 9053 4aa4 eb79 379e
0985 31ca 08f9 1ceb 99c8 e82e 9345 1146 681d f9dc
236e a0f1 e828 9726 f5a4 ac06 ab5e a53a 51d8 a875
b548 b1ab b0d9 aa45 a9df 58a0 8fe7 1b5e aea1 de9d
6f1e 4ea1 9022 8421 5039 70fa b41f 51c3 f3ee d421
ea77 22f3 ff8b 66a1 72f7 2349 4138 5a5c 4058 3a25
2155 e5a8 6955 a584 4a54 816b c80d e2cf b0ef f595
1893 2d0c 3504 64e1 d7f8 d3f7 6742 1f77 14e0 7cd2
2020 8e00

Link 45079

11049/9126/8137 kHz, 18-07, 0400/0410/0420 UTC

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

Block No 1 : Link ID 45079 : 18th of month : Msg Number 037 : Msg Type 07145 : Group Count (?) 4

59840 00000 00000 02130 48756 32891 00893 53580

Link 45114 / 45115

13468/11634/9486 kHz, 09-07, 0800/0810/0820 UTC

Link ID 45115, Date 8th, Serial #35

1be9 b03b 99a4 5057 80f9
0992 0641 c015 b8de 938b c903 9307 07c7 7339 f400
1774 78b7 5fd1 23cb 425d 5ad7 f82c 875e dc5c ce92
7b71 2041 9834 30cd 2320 da82 0b6e 6ddd 3007 6226
db92 e362 31c0 d1af 81a9 9276 42d1 209a 15a6 5142
c78c 274a b62d b4d2 0602 c3f2 edf0 5424 b196 7201
c1b0 9882 f970 7f5f b4c0 5433 a34f 90b8 ec01 6d91
df87 c168 47bd 0e5e e189 db7d 154b 3a54 46ca 79f6
7ae5 2230 f984 0daa 6cfc 1ad8 3626 856d 05e3 82c6
419f 5dea 7996 9b23 2c63 9854 a147 a65d b6c1 6ade

ae3c 0aad d7a1 a22d 150b 4676 c1a5 a492 52db 8fc0
6526 b824 ca80 0b18 30f2 fe1b 7a52 1e84 530b 562c
bc5c b499 81f3 9084 15c1 5011 f410

13468/11634/9486 kHz, 10-07, 0800/0810/0820 UTC

Block No 0 : Total Message Size 21 blocks : This transmission contains one message.

Block No 1 : Link ID 45115 : 8th of month : Msg Number 087 : Msg Type 07145 : Group Count (?) 128
39332 01601 02450 39183 06443 33583 24093 29155

13468/11634/9486 kHz, 23-07/24-07, 0800/0810/0820 UTC

Block No 0 : Total Message Size 22 blocks : This transmission contains one message.

Block No 1 : Link ID 45115 : 22nd of month : Msg Number 090 : Msg Type 07145 : Group Count (?) 134
30100 05441 54005 37644 06443 00753 32368 24799

Link ID 45115, Date 22nd, Serial #36, Groups 123

1be9 b03b 7594 dc5a 86ee
d2f5 1541 c015 b83b 36a8 6d03 9307 2ccf f2b3 f400
1774 7c4b 9382 245a 3aba afd6 f82b c4e4 80b9 b0a9
9942 1c5e 20b8 256d 18d7 9584 3860 3d6c b022 4d86
4e18 958f ac42 238b 626d 85f2 ce18 8c7c 0b43 5644
92e6 f024 6112 e204 3b54 7ced 0ed9 cc8a 1934 123d
d7d4 508a af87 c951 3a96 8c5b e478 76f2 29d7 8531
336e 8906 fe27 4557 a705 8fd7 a979 314f b082 a1cb
978c a6a7 e0a6 83ad ccb7 cc51 c332 7321 9ed4 c3e3
25a4 2dd6 f5c2 7c1b e26f a507 65e2 7aac 8c1a cba3
186c d5b8 a4c5 9f9a 574c a6bd f68a 47c6 f185 e956
8a71 b955 0404 a3df 9323 3ccd fd44 d3ce 750c e026
deef 3e5d 6e6b d149 cd37 b097 ae57 34d2 6284 5699
a792 8608 4000

Link 49202

16031/14369/12193kHz, 06-07, 2200/2210/2220 UTC

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

Block No 1 : Link ID 49202 : 6th of month : Msg Number 003 : Msg Type 07145 : Group Count (?) 4
53100 00000 00000 02519 65147 49401 01023 65534

16031/14369/12193kHz, 13-07, 2200/2210/2220 UTC

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

Block No 1 : Link ID 49202 : 13th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
22992 00000 00000 02109 34046 35312 00893 35614

16031/14369/12193kHz, 20-07, 2200/2210/2220 UTC

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

Block No 1 : Link ID 49202 : 20th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
37408 00000 00000 00716 47834 35240 00893 00171

Link 49237

13387/11023/9166 kHz, 07-07, 1330/1340/1350 UTC

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

Block No 1 : Link ID 49237 : 7th of month : Msg Number 107 : Msg Type 07145 : Group Count (?) 4
40536 00000 00000 00552 44260 34304 00893 21297

13387/11023/9166 kHz, 14-07, 1330/1340/1350 UTC

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

Block No 1 : Link ID 49237 : 14th of month : Msg Number 202 : Msg Type 07145 : Group Count (?) 4
52800 00000 00000 01984 49619 34573 00893 09271

13387/11023/9166 kHz, 21-07, 1330/1340/1350 UTC

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

Block No 1 : Link ID 49237 : 21st of month : Msg Number 227 : Msg Type 07145 : Group Count (?) 4
52800 00000 00000 00997 49619 35493 00893 16648**13387/11023/9166 kHz, 28-07, 1330/1340/1350 UTC**

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

Block No 1 : Link ID 49237 : Corrupt Date : Msg Number 187 : Msg Type 07145 : Group Count (?) 4
16973 00000 00000 04091 49619 34390 00893 47886

Link 53277

16244/14649/12206 kHz, 20-07, 1230/1240/1250 UTC

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

Block No 1 : Link ID 53277 : 20th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
21032 00000 00000 00952 25896 33428 00893 36036

X06 - Mazielka

Code	Freq	Date	UTC	Sequence
X06	13481	3-7	0706	Mazielka. Sequence: 452163
X06	13452	4-7	0910	Mazielka. Sequence: 165324
X06	10270	4-7	1543	Mazielka. Sequence: 532614
X06	18206	5-7	0922	Mazielka. Sequence: 246531
X06	16332	6-7	0610	Mazielka. Sequence: 1--6-- before M12
X06	13423	12-7	0815	Mazielka. Sequence: 421635
X06	13420	12-7	0819	Mazielka. Sequence: 534216
X06	9266	13-7	1919	Mazielka. Sequence: 61-6-3
X06	10766	13-7	1920	Mazielka. Sequence: 61-6-3
X06	12166	13-7	1923	Mazielka. Sequence: 61-6-3
X06	12166	13-7	1925	Mazielka. Sequence: 61-6-3
X06	14570	15-7	0825	Mazielka. Sequence: 324615
X06	12177	18-7	0710	Mazielka. Sequence: 356412
X06	12150	18-7	0802	Mazielka. Sequence: 256341
X06	14570	18-7	0835	Mazielka. Sequence: 324615
X06	14392	18-7	0837	Mazielka. Sequence: 532614
X06	14631	18-7	0855	Mazielka. Sequence: 362154
X06	12157	19-7	0826	Mazielka. Sequence: 165423
X06	12149	19-7	0843	Mazielka. Sequence: 154263
X06	13978	20-7	1117	Mazielka. Sequence: 215346
X06	13510	22-7	0509	Mazielka. Sequence: 216435
X06	16045	27-7	0729	Mazielka. Sequence: 435621
X06	14550	28-7	0811	Mazielka. Sequence: 153624
X06b	18260	1-7	0623	Mazielka. Sequence: 123456
X06b	8047	4-7	1700	Mazielka before M12
X06b	15884	5-7	1817	Mazielka. Sequence: 1--6-- before XPA
X06b	15884	5-7	1822	Mazielka. Sequence: 1--6-- before XPA
X06b	8000	6-7	0847	Mazielka. Sequence: 1--6--
X06b	12166	6-7	1855	Mazielka. Sequence: 1--6-- before E07a
X06b	14384	7-7	1805	Mazielka. Sequence: 1--6-- before XPA2
X06b	14984	7-7	1806	Mazielka. Sequence: 1--6-- before XPA2
X06b	15884	7-7	1807	Mazielka. Sequence: 1--6-- before XPA2
X06b	14384	7-7	1819	Mazielka. Sequence: 1--6-- before XPA2
X06b	14984	7-7	1820	Mazielka. Sequence: 1--6-- before XPA2 //15884 kHz
X06b	15884	7-7	1820	Mazielka. Sequence: 1--6-- before XPA2 //14984 kHz

Code	Freq	Date	UTC	Sequence
X06b	9064	9-7	0532	Mazielka before M12
X06b	11409	9-7	0535	Mazielka before M12
X06b	14384	12-7	1804	Mazielka. Sequence: 2--6-- //15884 kHz
X06b	15884	12-7	1804	Mazielka. Sequence: 2--6-- //14384 kHz
X06b	14984	12-7	1805	Mazielka. Sequence: 2--6--
X06b	14384	12-7	1807	Mazielka. Sequence: 2--6--
X06b	14384	12-7	1808	Mazielka. Sequence: 2--6-- //15884 kHz
X06b	15884	12-7	1808	Mazielka. Sequence: 2--6-- //14384 kHz
X06b	14984	12-7	1809	Mazielka. Sequence: 2--6--
X06b	11435	14-7	1658	Mazielka before M12
X06b	10943	14-7	1709	Mazielka. Sequence: 1--6--
X06b	14984	14-7	1814	Mazielka. Sequence: 1--6--
X06b	15884	14-7	1815	Mazielka. Sequence: 1--6--
X06b	14984	14-7	1816	Mazielka. Sequence: 1--6--
X06b	15884	14-7	1817	Mazielka. Sequence: 1--6--
X06b	15967	16-7	1928	Mazielka. Sequence: 1--6--
X06b	15967	16-7	1939	Mazielka. Sequence: 1--6--
X06b	12271	16-7	1941	Mazielka. Sequence: 1--6--
X06b	13884	16-7	1942	Mazielka. Sequence: 1--6--
X06b	15967	16-7	1942	Mazielka. Sequence: 1--6--
X06b	14384	19-7	1815	Mazielka. Sequence 1--6-- before XPA2
X06b	14984	19-7	1815	Mazielka. Sequence 1--6-- before XPA2
X06b	15884	19-7	1815	Mazielka. Sequence 1--6-- before XPA2
X06b	14384	19-7	1823	Mazielka. Sequence 1--6-- before XPA2
X06b	14984	19-7	1823	Mazielka. Sequence 1--6-- before XPA2
X06b	15884	19-7	1823	Mazielka. Sequence 1--6-- before XPA2
X06b	12166	20-7	1839	Mazielka. Sequence: 1--6--
X06b	12166	20-7	1854	Mazielka. Sequence: 1--6--
X06b	9266	20-7	1855	Mazielka. Sequence: 1--6--
X06b	10766	20-7	1857	Mazielka. Sequence: 1--6--
X06b	12166	20-7	1859	Mazielka. Sequence: 1--6--
X06b	12217	22-7	1956	Mazielka. Sequence: 1--6--
X06b	13884	22-7	1957	Mazielka. Sequence: 1--6--
X06b	12217	22-7	1959	Mazielka. Sequence: 1--6--
X06b	13884	22-7	2000	Mazielka. Sequence: 1--6-- //15967 kHz
X06b	15967	22-7	2000	Mazielka. Sequence: 1--6-- //13884 kHz
X06b	12217	22-7	2002	Mazielka. Sequence: 1--6--
X06b	13884	22-7	2003	Mazielka. Sequence: 1--6--
X06b	15967	22-7	2003	Mazielka. Sequence: 1--6--
X06b	15967	22-7	2005	Mazielka. Sequence: 1--6--
X06b	15967	23-7	1959	Mazielka. Sequence: 1--6--
X06b	12217	23-7	2007	Mazielka. Sequence: 1--6--
X06b	13884	23-7	2008	Mazielka. Sequence: 1--6--
X06b	15967	23-7	2009	Mazielka. Sequence: 1--6--
X06b	12138	24-7	1947	Mazielka. Sequence: 1--6--
X06b	13538	24-7	1949	Mazielka. Sequence: 1--6--
X06b	14538	24-7	1951	Mazielka. Sequence: 1--6--
X06b	14538	24-7	2002	Mazielka. Sequence: 1--6--
X06b	12138	24-7	2005	Mazielka. Sequence: 1--6--
X06b	14538	24-7	2007	Mazielka. Sequence: 1--6--
X06b	14384	26-7	1821	Mazielka. Sequence: 1--6-- before XPA2
X06b	14984	26-7	1822	Mazielka. Sequence: 1--6-- before XPA2
X06b	15884	26-7	1822	Mazielka. Sequence: 1--6-- before XPA2

Code	Freq	Date	UTC	Sequence
X06b	13320	27-7	0810	Mazielka. Sequence: 1--6--
X06b	12166	27-7	1818	Mazielka. Sequence: 1--6-- before E07
X06b	10766	27-7	1819	Mazielka. Sequence: 1--6-- before E07
X06b	14384	28-7	1806	Mazielka. Sequence: 1--6--
X06b	14984	28-7	1808	Mazielka. Sequence: 1--6--
X06b	14384	28-7	1810	Mazielka. Sequence: 1--6--
X06b	14984	28-7	1811	Mazielka. Sequence: 1--6--
X06b	15884	28-7	1842	Mazielka. Sequence: 1--6--
X06b	15884	28-7	1845	Mazielka. Sequence: 1--6--



XPA

11409/13509/14609 kHz, 02-07, 0600/0620/0640 UTC

456 456 456 1 456 456 456 1 456 456 456 1
08762 00197 23554 90115 98973 03083 69169 31188 27901 14277
29255 25338 05519 96479 01446 58781 33143 70366 36507 49605
48919 36627 32656 34712 51158 10468 44457 43259 95093 54851
49584 52459 34917 31994 71048 38992 57502 40454 11841 38370
30820 56540 71436 97086 26620 21481 64698 57050 49590 79608
51184 99490 49479 63162 60208 74163 10555 88622 42014 90497
55378 84951 93494 87264 71353 10094 95060 44424 89401 15309
81696 12210 42203 49662 12375 95363 77297 44693 10454 06110
04790 28102 88785 82125 25217 24292 30318 22038 48747 33729
79341 12951 41773 06853 73819 95379 96748 55561 76513 84623
41398 53112 90497 53786 82569 54892 50823 92268 96431 87554
58399 52620 42320 57769 18772 01490 96082 90278 77218 70495
53360 58648 07922 41873 15165 34599 26406 77095 14170 10879
05330 38046 91523 12787 34299 16988 51446 33360 16488 42512
98752 93662 74402 34773 06304 72670 59675 42677 25572 41075
68120 95365 04688 66190 60256 40874 27086 73718 57373 29710
43605 22675 71716 63960 79972 06878 83811 52278 01932 42440
19620 91655 44564 02164 02647 19096 49450 26224 04861 06491
78009 38679 07196 67679 95716 35429 93635 72140 56409 37210
01605 89145 29203 59043 59167 10613 44746 47085 43218 25001

10943/10243/9243 kHz, 05-07, 1730/1750/1810 UTC

922 922 922 000
03790 00001 00000 10140

11409/13509/14609 kHz, 06-07, 0600/0620/0640 UTC

456 456 456 000
02995 00001 00000 10140

10943/10243/9243 kHz, 07-07, 1730/1750/1810 UTC

922 922 922 000
07763 00001 00000 10140

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

456 456 456 000
03906 00001 00000 10140

10943/10243/9243 kHz, 12-07/14-07, 1730/1750/1810 UTC

922 922 922 1 922 922 922 1 922 922 922 1
07168 00153 23972 29644 52158 95830 59331 71836 59175 53713
95183 67872 12087 04082 76462 64301 68245 96465 68342 26449
80940 49837 24107 34669 63720 88604 48766 70658 47836 54599
57105 13666 63562 41967 85763 42056 72967 60930 34303 08506
43674 95859 29179 47362 28566 28272 01360 92918 00100 53958
51636 36531 10138 07827 48433 71345 30711 87443 36017 08704
56715 09961 62059 38286 62608 72258 99972 69183 20599 58552
24822 39288 67228 88924 97176 48706 82786 12571 98818 77735
69533 85248 42269 71327 05649 33418 71497 30534 22305 83288
24188 76394 57067 23394 35563 91577 87006 28200 47624 44670
42371 90481 80678 34558 50424 24958 03197 62001 75821 57921
57129 24337 54115 29537 73587 65838 70883 50842 04765 49625
31804 73870 91774 95306 80695 94157 88119 64662 52313 04186
04229 92139 19575 38682 62002 86685 43983 90745 79272 37544
27891 99100 55301 67223 21193 76225 36938 75113 68654 02589
88060 91669 90691 73958 20151 55765

11409/13509/14609 kHz, 13-07/16-07/20-07, 0600/0620/0640 UTC

456 456 456 1 456 456 456 1 456 456 456 1
05752 00213 52615 23420 82077 94380 10194 45253 96444 46819
73951 65723 70377 96550 92397 88237 39639 21440 77529 14218
58175 27661 13844 69347 96953 08667 28786 74888 74545 34431
03691 02989 06533 99123 50772 47014 54517 85871 69253 05673
28024 69140 41671 95786 38975 38510 75249 91071 19208 46612
00307 58446 90767 22814 56538 21165 45359 10053 47020 12653
73879 35427 21809 04573 84616 03515 77084 03979 36547 45821
41016 85206 44168 71828 14620 38391 75960 65385 30810 95513
08342 85490 84463 47960 52502 59195 13238 58364 28969 67696
03316 51165 99636 77960 70013 97767 77475 60600 44778 49866
34746 03129 00325 40464 59985 75805 03010 64955 33204 67119
73856 81896 85034 97252 31336 18721 69383 26490 32162 69978
59953 58645 44708 45380 29707 84015 46337 46838 51479 53279
25977 66795 36638 68214 64965 61474 51128 11598 74039 44201
71958 24758 94191 09619 74732 31363 87586 57516 97192 82501
28709 03333 80718 95684 50052 85838 95788 53016 49430 45854
76118 69656 29956 61248 96072 95614 96408 22998 78759 83005
55411 30369 66339 37033 31580 46157 33103 97121 86683 09317
21445 95868 29923 98844 73371 72968 16248 93801 55025 77503
28429 99418 03488 78302 03199 07695 58234 12965 70827 37737
71257 29049 79611 14561 71102 15709 73058 99603 03128 08870
02313 18809 02688 10970 00275 17617

10943/10243/9243 kHz, 19-07, 1730/1750/1810 UTC

922 922 922 000
08307 00001 00000 10140

10943/10243/9243 kHz, 21-07, 1730/1750/1810 UTC

922 922 922 000
07918 00001 00000 10140

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

456 456 456 000
03097 00001 00000 10140

10943/10243/9243 kHz, 26-07/28-07, 1730/1750/1810 UTC

922 922 922 1 922 922 922 1 922 922 922 1
05161 00113 99891 52109 23531 24835 86839 89102 73712 68012
13088 86773 30396 73006 53970 82144 27289 31376 58725 20570
85546 79404 04456 83180 42088 06347 27800 68035 07300 85057
37106 78835 32021 09990 18204 48412 25277 35869 66217 45550
21564 67611 05441 54160 62885 88247 20387 85466 26112 98985
78134 00667 92918 96900 66210 28288 84751 71549 16264 25564
46264 34729 67738 55678 15125 79467 69645 39688 76705 93395
88884 08647 41281 35343 01965 63661 80585 67316 82801 55461
33960 27469 48270 40618 80911 88667 69665 04426 41874 41226
65994 98693 54934 27509 34784 58047 05674 33726 16712 11042
22201 95633 26113 88658 09880 79005 88320 20565 87355 40137
33235 49385 55616 03562 59640 33052

11409/13509/14609 kHz, 27-07/30-07, 0600/0620/0640 UTC

456 456 456 1 456 456 456 1 456 456 456 1
06704 00193 98661 90585 76227 30116 51178 02599 94193 63674
49622 08117 38374 26025 15415 01383 85977 90847 72230 30441
25264 17337 32868 37555 90179 09223 44141 95721 96925 26641
60334 19715 53761 11823 32113 57367 49076 93213 85414 93573
99784 47552 19051 49660 80949 71215 48154 59953 55505 26048
62817 36003 05106 55751 00774 05847 60489 49266 68397 47742
10993 28188 97317 33322 90830 07644 08106 80069 46779 82713
47042 98783 49448 23163 22711 03878 04285 08979 66959 03320
07750 62072 99883 50367 59148 17189 98301 68385 06751 01996
94506 58697 94499 10846 78922 01526 28303 46061 31427 20633
14226 26510 09677 24866 97284 21735 35320 16742 12058 88356
09758 61868 19699 43276 99501 63647 94097 33677 90123 68966
38697 50540 58644 97880 11155 12384 09342 90098 39614 70309
40951 66297 90762 87194 88649 83426 04081 09942 49757 01347
13882 07488 58661 44802 07025 23597 12156 17252 91322 97390
80917 01754 16841 84124 99112 66713 52957 37700 11686 92173
09781 02129 86930 90340 50675 10150 24398 99918 36797 08440
71108 74454 37716 46132 88703 49912 97252 52196 40501 62268
41370 75462 80405 68104 74400 23740 10796 05195 90413 65462
10650 68850 87633 87788 81710 12374



XPA2

20173/18673/17473 kHz, 01-07, 0700/0720/0740 UTC

04967 00001 00000 10140

15967/13884/12217 kHz, 01-07, 2100/2120/2140 UTC

08442 00001 00000 10140

15967/13884/12217 kHz, 02-07, 2100/2120/2140 UTC

08961 00001 00000 10140

14538/13538/12138 kHz, 03-07, 2100/2120/2140 UTC

01194 00000 00000 10040

15884/14984/14384 kHz, 05-07/07-07, 1900/1920/1940 UTC

06382 00261 92510 09462 28096 07994 75641 71591 19554 38138
72552 98746 79754 62690 22103 87275 21846 60334 38291 47785
86919 43882 77302 04730 91217 05794 61003 75331 56470 67925
13434 62062 43427 72001 75626 34065 35236 09092 58577 62351
70302 29768 16941 45557 92291 46582 61855 67863 84145 18572
23458 41066 25177 41231 89860 04794 00277 00978 93991 45969
32579 88722 84065 42437 12284 68464 77322 40026 60056 29977
66091 56631 12669 93468 46725 32314 53957 15553 22292 23611
95528 03505 77333 71684 65803 48000 99783 53396 05118 03345
77874 72255 34481 03922 74336 13833 33963 69777 26397 14975
88383 39258 09070 94098 56084 33440 16554 38811 84416 46926
42339 05652 70165 03308 49897 83303 28209 11280 08060 02727
90214 81174 51957 37436 46688 58754 48909 02344 45801 73416
32380 45022 93752 24126 18325 87334 51965 48856 97630 01954
81097 96821 61486 57393 01281 91290 26212 42845 04788 68826
51153 67341 44470 85042 63416 72237 72940 63346 67133 69816
84002 72015 08589 98651 54195 22028 45454 68796 29174 38181
38441 83789 46675 35908 25818 81122 85039 39851 53478 02302
21471 51500 77298 40789 46593 58857 72507 97069 91654 73177
26587 00166 57817 92616 30756 34233 58022 70660 32775 62775
87929 22985 28815 67976 03509 70120 37799 08458 37075 06378
26174 86774 49798 15975 17492 15295 02427 23744 54852 46167
46697 03425 32548 65414 30012 55468 28792 99459 41851 22997
33344 12325 64186 34440 33396 94826 14539 99848 96227 18501
08122 77311 01553 05470 25667 66619 15116 23633 55283 71938
29106 66874 19397 84115 71133 63673 92884 66522 39038 04497
73103 18525 96443 65154

14538/13538/12138 kHz, 05-07/10-07/12-07, 2100/2120/2140 UTC

06399 00109 44517 46475 38854 09742 18497 17674 47239 40968
61185 37631 69466 82781 40926 86512 96166 13732 93899 82894
79537 72289 97739 45201 54782 61043 37366 08155 13695 60002
14238 67268 46884 22234 88971 08758 65684 25739 63578 30084
94080 97042 54340 27945 60920 17918 10082 70888 71281 47918
22647 20680 03483 42811 79129 72399 88208 10792 86762 59334
24661 12479 95933 00566 42559 13633 26330 71823 53870 92343
56056 00277 30301 10994 21544 90872 95669 58154 78650 44003
66805 47152 67284 78039 93867 66778 23200 25582 22566 09600
11521 13333 86981 22854 11166 00866 11577 91807 31409 59665
22919 90156 66239 12258 70554 73220 83628 50717 50234 65037
41860 52001

12153/13439 kHz, 06-07, 0840/0850 UTC

04498 00062 25663 14431 74878 23910 84274 50252 83293 71283
72193 43940 30676 16744 27940 80919 62758 80458 86914 27083
28435 07846 71867 34157 30205 76801 78344 35097 81934 38819
14573 18781 27077 03847 50681 70407 02998 56139 93473 48358
24921 06320 42081 57465 67213 84689 07248 15266 14684 00281
63555 87859 67884 90008 35651 94166 92869 37559 16885 61367
06337 47189 28829 66786 02317

00000 00000

02904 00054 39983 51663 00364 36477 36590 77290 10926 50609
67816 58031 77483 16264 18538 31943 93881 21368 37007 83458
73652 70080 33732 52290 38014 75222 86446 22158 86541 65610
61081 48360 33102 46237 10518 49415 28827 87005 92715 06903
66008 05583 00849 09016 20858 06538 23858 42598 94079 40204
37306 14908 49174 27270 96460 31530 53127 01893 61647 24242
13033 59601 77416 70839 17525 81202 61255

15967/13884/12217 kHz, 08-07, 2100/2120/2140 UTC

01591 00001 00000 10140

15967/13884/12217 kHz, 09-07, 2100/2120/2140 UTC

06595 00001 00000 10140

15884/14984/14384 kHz, 12-07, 1900/1920/1940 UTC

09123 00001 00000 10140

15884/14984/14384 kHz, 14-07, 1900/1920/1940 UTC

02983 00001 00000 10140

20173/18673/17473 kHz, 15-07, 0700/0720/0740 UTC

06101 00001 00000 10140

15967/13884/12217 kHz, 15-07/16-07, 2100/2120/2140 UTC

00651 00057 61649 14231 85102 86287 17298 57950 88271 39805
85596 76827 31564 27900 79953 79675 91291 05449 20588 80757
06119 55020 84622 58705 42934 08001 53193 23193 32973 64856
31296 36230 86918 23529 84650 59889 03751 70143 27307 89080
65423 29636 88819 27801 97528 30319 04799 58845 31438 30574
58401 75439 70644 62086 83784 63003 46236 62747 37732 11472

14538/13538/12138 kHz, 17-07, 2100/2120/2140 UTC

01423 00001 00000 10140

15884/14984/14384 kHz, 19-07/21-07, 1900/1920/1940 UTC

07416 00219 77095 35958 97439 50915 53780 13326 07931 82205
33622 77668 69643 73498 15259 36970 00997 64230 53393 53246
92178 96389 10667 58929 19200 99426 34106 01844 06678 48617
59006 47166 24999 28066 58609 83122 38142 84895 48647 13637
89823 95862 06137 73185 62870 79240 97349 31062 72349 44014
38193 89713 75905 41426 19057 56976 03113 78355 46689 53439
95690 92225 78404 65278 60157 29828 81571 91409 53583 85628
95787 74792 96207 80113 27177 48863 48887 98706 08812 65802
92231 96563 66915 52185 20219 65303 66302 41328 47957 92778
66928 43407 03452 57175 02443 36210 27698 22463 54101 83757
32594 23741 92963 00406 07353 68623 48232 11436 47301 19391
02442 62205 03416 01672 31958 48419 41474 28562 27609 80988
92638 92509 58269 18848 21540 11089 76721 99150 95720 99930
49413 69083 21256 24237 11038 60878 31549 91908 09420 32638
69081 68736 93323 51074 50751 49832 59652 29204 13590 73939
74508 44948 53592 87253 17079 86461 72463 49939 01498 61935
13168 74994 54332 08255 70325 21586 07212 57137 98871 12450
19872 13502 74124 95526 01658 33235 83192 76840 76903 48510
84777 14214 39589 47432 49373 10297 39349 26889 83738 80485
98101 67284 09671 97322 52069 83071 30912 21999 07380 90875
07436 06951 06606 10819 77634 80291 84250 70079 37883 34012
46524 02023 48987 09821 60635 58091 36768 51117 63595 86327
34617 11046

14538/13538/12138 kHz, 19-07/24-07, 2100/2120/2140 UTC

07975 00097 39040 47717 28685 44002 88655 91188 23220 38346
22384 04621 82343 59222 95112 79846 22538 23970 57022 31744
81085 48853 74964 80871 66915 88346 03909 12730 05887 60337
03151 91269 45338 73949 00602 73303 66353 60147 08955 00602
12307 61716 52630 73239 39877 27764 66338 70396 41310 14824
39958 27553 80508 47062 76115 17538 85841 02715 71401 18892
13278 73538 48082 26625 69695 40618 50618 03045 61974 88627
77328 74211 29563 48949 98088 89013 94115 66139 48227 98946
50440 46561 31018 93536 84793 20030 12368 11489 65957 50668
46146 22743 34331 39251 37849 32581 08718 98431 66483 56326

15967/13884/12217 kHz, 22-07, 2100/2120/2140 UTC

03816 00001 00000 10140

15967/13884/12217 kHz, 23-07, 2100/2120/2140 UTC

03152 00001 00000 10140

15884/14984/14384 kHz, 26-07, 1900/1920/1940 UTC

04357 00001 00000 10140

14538/13538/12138 kHz, 26-07, 2100/2120/2140 UTC

02311 00001 00000 10140

15884/14984/14384 kHz, 28-07, 1900/1920/1940 UTC

04968 00001 00000 10040

20173/18673/17473 kHz, 29-07, 0700/0720/0740 UTC

05524 00001 00000 10140

15967/13884/12217 kHz, 30-07, 2100/2120/2140 UTC

05560 00001 00000 10140

14538/13538/12138 kHz, 31-07, 2100/2120/2140 UTC

07010 00001 00000 10140



F11

Mode: FSK 100/625

6480 kHz, 04-07/07-07, 0800/0805 UTC

0434 0434 0434 0434 0434
88888 88888 06027 54397 60807 97050 88538 82995 55177 39790
22896 66946 22163 32408 99552 99522 06100 61579 77835 90655
24136 13879 62825 54559 86466 57285 13257 77985 18980 38554
72070 76805 23939 75891 55589 43105 88888 88888
00038 00038

8423 kHz, 05-07/08-07, 0900/0905 UTC

0554 0554 0554 0554 0554
88888 88888 46883 51637 47014 42518 38502 56770 12529 71524
03780 05065 56202 47293 00533 26204 46392 63453 81144 97415
36866 44542 85648 84630 81694 69610 74067 47341 55337 33193
80552 30221 76142 86333 49398 56431 88888 88888
00038 00038

13424 kHz, 11-07/13-07, 0845/0850 UTC

0353 0353 0353 0353 0353
88888 88888 70527 67201 05168 72757 71433 32137 78898 91992
02299 60478 01257 39434 20093 42632 37672 76328 46086 13801
27747 20845 81193 82595 56121 94543 57422 98299 00892 91742
74066 92772 83604 88888 88888
00035 00035

15690 kHz, 13-07, 1245/1250 UTC

0132 0132 0132 0132 0132
88888 88888 47816 18994 45375 58768 23691 91898 72826 73996
31783 23491 14571 98749 04319 26263 84917 21878 35426 57422
34641 62186 56204 79035 15320 02189 50190 59925 33274 33809
45481 69916 05419 19197 48000 00809 53460 12061 02593 88888
88888
00041 00041

14575 kHz, 15-07, 0530/0535 UTC

0684 0684 0684 0684 0684
88888 88888 06236 56325 75153 54381 54567 41186 57466 57379
91418 09094 92312 75528 30632 02681 58353 22038 57694 37806
02041 80027 31564 53114 43350 50558 12420 27057 35245 67912
53406 71881 86627 64124 31248 88888 88888
00037 00037

7837 kHz, 18-07/21-07, 0515/0520 UTC

0446 0446 0446 0446 0446
88888 88888 75269 37852 74133 46880 15344 54378 42559 98320
25175 50011 95557 38237 30304 77173 12587 63407 36740 10059
20613 21283 23282 40800 24231 92717 74461 84564 81394 40497
21905 02714 15813 05204 96993 88888 88888
00037 00037

10210 kHz, 19-07, 1150/1200 UTC

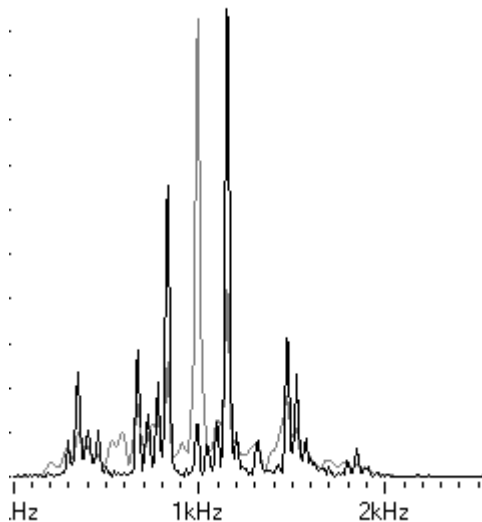
0325 0325 0325 0325 0325
88888 88888 15353 59363 84414 10697 00748 09336 33351 47140
18113 50290 51430 90396 12511 92239 69476 69710 72183 51564
76361 35021 45035 66802 01101 23214 25157 72203 48795 63187
08368 08506 47551 45316 99768 31685 88888 88888
00038 00038

13470 kHz, 21-07, 0630/0635 UTC

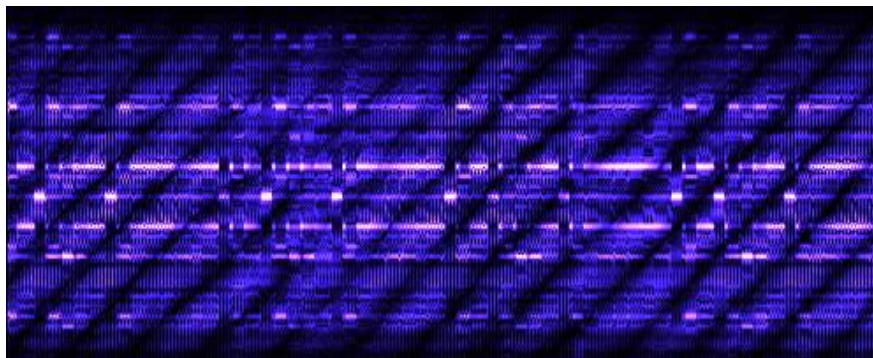
0574 0574 0574 0574 0574
88888 88888 16276 12192 60788 39208 91547 40479 11968 10798
05688 48520 89291 33089 53557 32510 50766 20393 61674 40389
99141 51161 81800 90197 88114 36150 74748 35303 54137 99875
01626 92148 74209 59283 02557 20709 48721 06281 88888 88888
00040 00040



XSL a.k.a. Slot Machine
Japan Maritime Self-Defense Force
海上自衛隊 Kaijō Jieitai



Copied on 08-07 at 1201 UTC and on 21-07 at 1213 UTC on
4153, 4231.5, 4291, 6250, 6417, 6445, 8313, 8588, 8703.5 kHz.
Mode: QPSK 1500Bd



North Korean diplomatic stations

14530 kHz, 14-7, 1835 UTC, DPRK-ARQ 600/600 LSB
14750 kHz, 14-7, 1835 UTC, DPRK-ARQ 600/600 LSB
14750 kHz, 14-7, 1912 UTC, DPRK-ARQ 600/600 LSB

North Korean diplo. QSX 14750 kHz
North Korean diplo. QSX 14530 kHz
North Korean diplo. QSX 14530 kHz



Egyptian diplomatic stations

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

14650 kHz, 19-7, 0710 UTC. MFA Cairo clg KXU: Egyptian embassy Harare or Accra. Mode: SITOR-A 100/170

UTILITY ROUND-UP



UVB33

12025 kHz, 02-07, 1145 UTC, PSK-63

12025 kHz, 02-07, 1445 UTC, PSK-63

12025 kHz, 02-07, 1453 UTC, CW

VVV VVV VVV UVB33 UVB33 UVB33 132 132 132
ZZZZZ UWVOD ORBHV DBJAJ KDKHR KVGPO VKFSL NGBFP AGGGG IXOOC
FBLGD XDWJV AKEMD LQDWU DENKH CWQNO IGSUX SCWTA ISNKC TUULK
XKTXJ JTCKD WCCBH ANURE CRVCF WDCHN QKMMX XFUPW PJPPG JFIEH
HJIMA HQWJQ OWWQJ XDNMD BKKPJ CRHCO RIOST HNBQO UIUNH IDKRB
ROJDE UCOWK TBPMS BKCAH RKAXT VTPFL CMQJC UBQFQ EHVDB CHQXO
VPONP GSCRT GVKCI MHKBS BGFOI WWAOH MASGR GWEOB VQFKU MSVJQ
UACKW XXLHF VFARD UOIXO ENWAH SBION KRDNE HCPGX LOTTG FFITF
PSLXT VAQEI VPGDP PDITJ UDJJJ HXHQJ DFBHC FIROT KDQLF MPBGP
WLSAV IESUS WFTFV XEATP EKLCR MIXUB XMIXC OGGOL LNGMO UGCHJ
HFCXU AXQJV OHFQQ QBGLB TPIMO VBHIW PBFCE IPQCL BSPSM RHTSN
BLCZZ YYYYY
132 132 132 UVB33 UVB33 UVB33 K

6925 kHz, 19-07. 0330 UTC, CW

VVV VVV VVV UVB33 UVB33 UVB33 233 233 233
ZZZZZ WJRWJ MXSCW FUNRS TVGPM NFVUU GCCLK AEWASM E EEM TIX
ODERD VWKQH VUREH UOIU WHAS ICK MT II TMRT WNT ERE KRNUR
CNAEL E5BU RLULR EOSAF FBEUM UCAXG ETTJU EETOJ PWOUA XRBES
FEDFX OHPTTT KNF X TRA SA E WE UR E N NOP OFTKS LB NXX NQLFT
TCEDQ FNAPU RWKQAE BD MQR BE DHB C EO ATHXL IVT EAM OO VC
PGIIQ CJMGR QCONW MNONS QLJUQ LI/HE KKMAS CBDLV AESVI HUJXI
LRPU PHTWV BAQIE CTT PB OBEGP MEHBL TIMPE PBXBA PILLM IXHBS
D RWMT CST NB OA YG BSBIC VSCD T VPSSI XDMSF USOP TEEIQ ED EP
BMSLJ MVDCE FUBKH FRRKF IDXLE PVBQR WKJ NR ODMWH ORGCU EOLQI
MRLUBF UPXPB LAR LDG OSL6F GTTQE PUUWG BWOOI ARKENP JDDAK
GQILF YYYYY
233 233 233 UVB33 UVB33 UVB33 K



Intelligence news

What's going on at Russia's KGB successor?

Russia's Federal Security Service—the FSB—is currently experiencing the biggest personnel changes it's seen in a decade. Yuri Yakovlev, the head of the FSB's influential Economic Security Service, recently resigned, followed by his deputies (men who led key branches in this division). *Meduza* asked Andrei Soldatov, a specialist in Russia's security agencies, to explain what these personnel changes could mean.

Andrei Soldatov published *Meduza's* article on the Agentura website

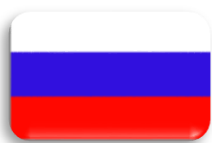
<http://www.agentura.ru/english/projects/fsbresignations/>

Pictures of all the new buildings can be downloaded here:

<http://fas.org/irp/eprint/svr-expansion.pdf>

RUSSIAN MILITARY TRANSCRIPTS

Excerpts from logs submitted by JPL, Wolfgang, Ary, Topol and André.



RMv/RNv/RNAv/RAv Russian military stations

Frequency: various Mode: USB / voice

RMv – Russian Military

2042 kHz, 03-07, 1718 UTC SOKOL-20 clg DAIWA-22, SOKROT-16, ADIENAT-27, PORAL-05, DRAGIT-97, DIEVIN-77
3371 kHz, 09-07, 1732 UTC YELT-09 clg BUIRKA-44, TIRAN-16, MARAT-23, DANIT-13
5263 kHz, 12-07, 0447 UTC ROZDIN-63 c;g PAVAR-34, ZARAK-17, PASTOR-47
3200 kHz, 27-07, 1720 UTC SOKOL-20 clg DAIWA-22, SOKROT-16, ADIENAT-27, PORAL-05, DRAGIT-97, DIEVIN-77, TRIGAT-62, RAPORT-53
3950.5 kHz, 29-07, 1701 UTC VAZUL-18 clg KARNAT-01

RNv – Russian Navy

4109 kHz, 01-07, 0518 UTC	YEDIN (RMRV) clg PARUS (RJC66)
4988 kHz, 02-7, 1345 UTC	RADIASAT (RIQ97) clg VESTNIK (RMP)
4940.5 kHz, 03-07, 1646 UTC	GARANTIYA (RIQ88) clg GANILA (RAI63)
3765 kHz, 03-07, 0440 UTC	VESTNIK (RMP) clg DEDUKTSIYA (RLD64)
5745 kHz, 12-07, 0515 UTC	KOMUNA (RGX80) clg VESTNIK (RMP)
5456 kHz, 12-07, 1751 UTC	MAMAMIAN (RLD63) clg VESTNIK (RMP)
6477 kHz, 12-07, 1704 UTC	VESTNIK (RMP) clg STROGHI (RJC30)
3756 kHz, 12-07, 1819 UTC	MAMAMIAN (RLD63) clg VESTNIK (RMP)
12260 kHz, 13-07, 0802 UTC	KARAVAN (RDND) clg PROGRES (RIW)
4988 kHz, 27-07, 0442 UTC	BRUSNIKA (RHM81) clg VESTNIK (RMP)
3204 kHz, 29-07, 1722 UTC	PRENIKO (RJQ71) clg VESTNIK (RMP)

RAv – Russian Air Force

18030 kHz, 23-07, 1300 UTC KORSAR clg POLOTNO, KASTEN, DAVLENIYE, POLIS, KLARINIST

RADv – Russian Air Defense

Russian Air Defense tracking nets:

2300 kHz, 27-07, 0426 UTC
2603.5 kHz, 09-07, 1728 UTC
3381 kHz, 05-07, 0357 UTC
3595 kHz, 01-07, 0500 UTC
4408 kHz, 09-07, 1704 UTC
4572 kHz, 05-07, 0421 UTC



M32

Russian / CIS Military CW Stations

First a number of logs that were too late for N&O #225

14108 kHz, 14-06, 0940 UTC	HK5L DE 2VTA ZIB ZWD ZNM QYT9 K
14108 kHz, 18-06, 0738 UTC	HK5L DE JHDH
14108 kHz, 18-06, 0740 UTC	LFKW DE JHDH
14108 kHz, 18-06, 0742 UTC	L1KI DE JHDH
14108 kHz, 18-06, 0744 UTC	AH5K DE JHDH
14108 kHz, 18-06, 0745 UTC	E5FV DE JHDH
14108 kHz, 27-06, 0811 UTC	B1F2 DE 8EOM
14108 kHz, 02-06, 0836 UTC	XXX WEGI 97426 SOKOWYJ 4963 2782 k
14108 kHz, 03-06, 0825 UTC	XXX G5CX 54559 LITOLOGla 7585 6290 k
14108 kHz, 03-06, 0828 UTC	WY6Z clg ZA7L LW3U ITSL TP8P QTJH
14108 kHz, 03-06, 0840 UTC	XXX G5CX 88524 GIPSOBAL 4274 3868 k
14108 kHz, 03-06, 0852 UTC	XXX KH8N 1152 8062 DDDDD 5BL
14108 kHz, 03-06, 0925 UTC	XXX N1DX 35726 ROSS 8085 6233 k
14108 kHz, 07-06, 0912 UTC	ITSL de AR5N ZUM ZLU ZQS QYT6 k
14108 kHz, 08-06, 1000 UTC	ITSL de WY6Z QTC 548 MMMMM 5BL
14108 kHz, 13-06, 0943 UTC	XXX WEGI 72251 PULOPUK 7207 0216 k
14108 kHz, 13-06, 0953 UTC	XXX WEGI 20289 71866 MORGBOBR
14108 kHz, 14-06, 0937 UTC	HK5L de 2VTA ZIB ZWD ZNM QYT9 k
14108 kHz, 14-06, 0957 UTC	HK5L de 2VTA ZIS ZIC ZEW QYT9 k
14108 kHz, 16-06, 0933 UTC	XXX C1OB 1007 5094 DDDDD 5LGs
14108 kHz, 17-06, 0931 UTC	XXX N1DX 54791 PLODOZOLX 3721 4811
14108 kHz, 17-06, 0936 UTC	XXX G25O 23421 PONGOLOG 8957 4265
14108 kHz, 21-06, 0830 UTC	FPAL de 8EOM QTC 489 MMMMM 5LGs
14108 kHz, 27-06, 0842 UTC	B1F2 de 8EOM QBE QYT6 k
14108 kHz, 12-06, 0945 UTC	2VTA qtc 104 23 12 1450 5FGs
5268 kHz, 13-07, 1700 UTC	XXX RDL RDL 00782 59193 PLEØEWOJ 2916 8546 K

6969 kHz, 13-07, 1831 UTC

87179 87179 K
 IK7R (x3) DE M8TK (x2) K
 IK7R DE M8TK K
 IK7R DE M8TK K
 IK7R DE M8TK QSA NO QSY 86580 86580 86580 K
 IK7R DE M8TK QSA NO QSY 86580 86580 K
 IK7R DE M8TK K



M32a

Russian Navy Voyenno-Morskoy Flot Rossii

4537.5 kHz, 05-07

1847 UTC	VVV RJD99 DE RBE99 QSA? QTC
1848 UTC	RBE99 777 17 5 2140 777 = FOR RJH74 RJD90 = 05181 99651 10368 41?98 61007 101?0 49940 57010 70322 8122/ 22200 00130 20101 88000 05014 = + RBE99
1950 UTC	VVV RJD99 DE RMJW QSA?
1951 UTC	RJD99 DE RMJW QSA2 QRV

2039 UTC VVV RJD99 DE RBE99 QSA? QTC

2040 UTC RBE99 396 25 5 2338 396 = FOR RJD99 =
 28579 24006 87939 15253 86844
 21797 66668 38544 79390 79078
 09055 58218 62370 50698 49314
 01378 23839 34246 59659 32009
 06986 71868 23611 05023 = = RBE99

2103 UTC VVV RJD99 RBE99 QSA? QTC

2104 UTC RBE99 235 17 6 0001 235 = FOR RJH74 RJD90 =
 05211 99652 10370 41598
 50907 10150 49940 5?000 70222 85221 22211 00130 20303 88000 06014 = + RBE99

5235 kHz, 05-07

1719 UTC VVV RMP DE RHM81 QSA?
 1720 UTC VVV RMP DE RHM81 QSA?
 1721 UTC RHM81 OK AS3
 1729 UTC VVV RMP DE RJQ71 QSA?
 1731 UTC RJQ71 OK QRR3 QDW 4967 AAA5
 1750 UTC RMP DE RJQ71 SK?
 1814 UTC VVV RMP DE RMRV QSA?
 1815 UTC RMP DE RMRV QSA4 QYT4 QSX 3396 AA5 OK?
 1924 UTC RMP DE RMRV QYT4 QSX 2523 OK? [continues setting up QYT4]
 2005 UTC RMP DE RHM81 QSA?

8345 kHz, 05-07

1803 UTC VVV RCV DE RMGB QSA? QTC

1804 UTC RMGB 421 17 5 2100 421 = SML FOR RJH45 RJE73 =
 05181 99345 10339 41598
 52306 10260 40040 56001 70110 85110 22252 00240 20202 05013 = + RMGB

1814 UTC VVV RCV DE RJC20 QSA? QTC

1816 UTC RJC20 718 18 5 2100 718 = FOR RJE73 RJH45 =
 05181 99387 10260 41597
 13608 10300 40140 56010 70200 81010 22281 00230 20101 88000 80000 05015 = + RJC20

2038 UTC VVV RCV DE RCIV QSA? QTC

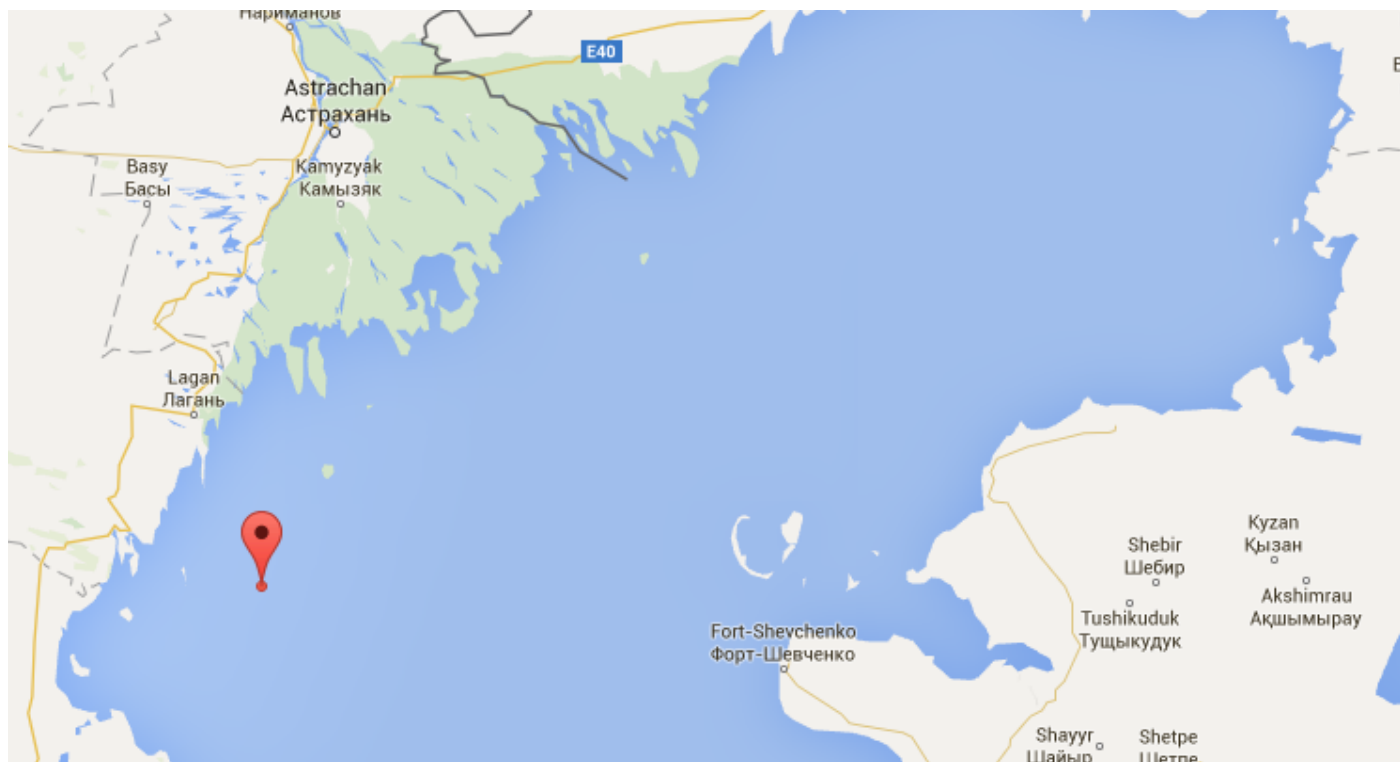
2039 UTC RCIV 526 18 5 2321 526 = FOR RJH45 RJE73 =
 05211 99373 10260 42798
 12809 10280 40134 52017 70200 81011 22272 00250 20000 88000 80000 05015 = + RCIV

10425 kHz, 20-07, 1103 UTC, i.p.

QSA 4 ZNN
 ZNN VA
 RGH2. DE RAL2 K
 RMW2 DE RAL2 K
 QSA 4 ZNN VA
 RH.. DE RAL2 K
 QSA 2 ZNN VA
 R. 66 DE RAL2 K
 RBL66 DE RAL2 K
 RBL66 DE RAL2 QSA ? K
 QSA 2 ZNN VA

3876 kHz, 22-07, 1812 UTC. Position: see map

627 17 22 1805 627 = FM RHI86 FOR RJD52 RJD88 RIW = 22181 99448 10477 41/97 93204 10032 4//// / 5///// 22200 1//// 3////
5///// 22012 = AR RHI86 K
RJD52 R 627 K
RHI86 OK QRU K



3876 kHz, 23-07, 1802 UTC

QTC SML 762 17 23 2101 762 = FM RHI86 FOR RJD52 RJD88 RIW = 23181 99439 10469 41/96 91808 10034 4//// / 5///// 22243
1//// 2///// 5///// 23012 = AR RHI86 K

4576.5 kHz, 16-07, 1810 UTC

RJD99 de RMB81 QTC SML pour RJH74 RJD90 - LOCALISATION : 23181 99650 10389

4527 kHz, 23-07, 1900 UTC

RMW46 wkg RGR49, RGR87, RGR88, RGR89, RGR90, RGR91, RFH46, RGR94, RGR95, RDQ81, RGR96, RGR97, RGR98, RGR93,
RGR92

3876 kHz, 25-07, 1808 UTC

RMBO 254 19 25 2102 254 = FM RMBO FOR RJD52 RJD88 = WWHH/ 25181 99432 10477 41/97 /1403 10280 40285 52007 70200
8//// 22262 2///// 2///// 88/// 25015 = AR RMBO K

5263.5 kHz, 28-07, 0829 UTC

RIW RIW RIW K RMP QTC 302 14 28 1110 302 = 11111 0
12391 77912
10465 73534 23892 04277 840 675 6632 41674 34574 310 67 280 13 =

0835 UTC

RIW RIW RIW DE RMP RMP QTC 202 14 28 1110 =
11111 00060 12391 77912 10465 73534 23892 03277 840 66 II II
23892 05277 84067 56632 41674 24574 31067 28013 AR

0930 UTC

REO REO REO DE RMP RMP QTC 982 12 28 1135 982 =
 11111 16200 55891 40885 23373 33747 70262 84854 02862 01082 94525 28011 =

0937 UTC

REO REO REO DE RMP RMP QTC

0926-0931 UTC

RMED RMED RMED DE RMP RMP QSA 1 K
 RMED DE RMP QRV K
 RMP R 842 K

0940 UTC

REO REO REO DE RMP RMP QTC 929 15 28 1205 929 =
 11111 69928 76682 22929 46153 70244 34724 85057 46334 21946 78150 49984 20 1388 II II
 78150 49984 20138 52405 28014 =
 REO REO REO DE RMP RMP II II II II II II
 REO REO REO DE RMP RMP QTC 929 15 28 1205 929 =
 11111 69928 76682 22929 46153 70244 34724 85057 46334 21946 78150 49984 20138 52495 28014 AR

1050 UTC

REO REO REO DE RMP RMP 211 16 28 1252 211 =
 11111 13160 43367 56639 35833 54950 87272 70962 603... 43 81655 59317 11235 49921 25747 28015 = II II II II

1338-1345 UTC

VVV RDL64 RLD64 RLD64 DE RMP RMP QSA? K
 VVV RDL64 RLD64 RLD64 DE RMP RMP QSA? K
 VVV RDL64 RLD64 RLD64 DE RMP RMP QSA? K

1400 UTC

RKI90 RKI90 RKI90 DE RMP RMP QSA2 QRV K



M32b
Russian Naval Aviation
Aviatsiya Voennno-morskogo Flota Rossii

8816 kHz, 12-07, 0615 UTC

RJF94 RJC38 DE 30770 QTH 5143 4011 QTR 0610 QBG 5800 K
 QTH 4800 4127 QTR 0710 QBD 3400 K
 QTH 4521 3638 QTR 0810 QBG 5800 QRE XRFI 0900 K
 QQM XRFI 0855 SK

8816 kHz, 25-07, 0738 UTC

RJF94 RJC38 DE 09479 QTH 6456 3429 QTR 0733 QBG 7000 K
 QTH 6947 3756 QTR 0837 QBG 7000 K
 QQM XUMO 0934 SK

8816 kHz, 25-07, 1010 UTC

RJF94 RJC38 DE 42055 QAY XLPB 1005 QBG 10000 QBD 10000 K
 QQM XUMU 1104 SK

8816 kHz, 28-07, 1421 UTC

RJF94 RJC38 DE 09479 QTO 1404 QRD XLMV XUMO QRE 1715 QBD 16000 K
 QTH 5913 3752 QTR 1505 QBG 6700 K
 QTH 6400 3515 QTR 1607 QBG 6700 K
 QAY XLMG 1658 QBD 9000 QBG 6700
 QQM XLMV 1722 SK

8816 kHz, 28-07, 0815 UTC

RJF94 RJC38 DE 42055 QTO 0805 QRD XLMV XUMU QRE 1020 QBD 14000 K
 QAY XLPB 0907 QBG 9100 QBD 9000 K
 QQM XLMV 1020 SK

8816 kHz, 28-07, 1055 UTC

RJF94 RJC38 DE 75157 QQL XLPB 1046 QBD 15700 QBG 7900 K
 QQL ULPE 1124 QBD 14800 QRE XLMV 1230 K
 QQM XLMV 1228 SK



JCS FOXTROT MESSAGES & EMERGENCY ACTION MESSAGES

Joint Chief of Staff Emergency Action Messages and Foxtrot Messages

Frequencies: 4724, 6712, 6739, 8992, 11175, 13200, 15016 kHz

11-07, 0558 UTC	Diplomat	30 chr EAM 42XLOF 3KZWXBZPIYFNT2VBYH23JRVW
11-07, 1411 UTC	Diplomat	30 chr EAM for Line-up for Jersey? 2HFB SX U6TPQYUA2GH64DQLYNPXK2VQ
11-07, 1417 UTC	Diplomat	30 chr EAM 2H4GHN YYNOQ5HAK6OPYSSVG YDMGWZX
11-07, 1420 UTC	Diplomat	30 chr EAM 42ZN6A QPY5HJGESU6VP46S34CAHPTV
11-07, 1506 UTC	Diplomat	47 chr EAM PG06DA KCCF6PTSWPUNIBQY0AE5W52CUFS4NS5WVPPONBVPV
11-07, 1529 UTC	Diplomat	47 chr EAM PG06DA KCCF6PTSWPUNIBQY0AE5W52CUFS4NS5WVPPONBVPV
11-07, 1554 UTC	Diplomat	30 chr EAM 42Z2TT H3IPGSCCXDA3DTSCAYWHYECA
11-07, 1558 UTC	Diplomat	30 chr EAM 42BZYC RCJXIGYUD43PBPTGN2FR6VWX
11-07, 1608 UTC	Diplomat	30 chr EAM 42IZ7A NAE0UOXCLXNLHEXZA5R4AD6X
11-07, 1634 UTC	Diplomat	30 chr EAM 42IZ7A NAE0UOXCLXNLHEXZA5R4AD6X
11-07, 1638 UTC	Diplomat	30 chr EAM 42Z2TT H3IPGSCCXDA3DTSCAYWHYECA
11-07, 1653 UTC	Diplomat	30 chr EAM 42YFZ7 SZN3ORY4DF4EOAMOXUBYL4DQ
11-07, 1656 UTC	Diplomat	30 chr EAM 42CMLN 6CLD6U7BKHCHK75MLOFBVYHZ
11-07, 1700 UTC	Diplomat	30 chr EAM 42CTCH B5LAFEDJDOVRJTJJKFDLK7S7
11-07, 1703 UTC	Diplomat	30 chr EAM 42IZ7A NAE0UOXCLXNLHEXZA5R4AD6X
11-07, 1705 UTC	Diplomat	30 chr EAM 42BZYC RCJXIGYUD43PBPTGN2FR6VWX
11-07, 1708 UTC	Diplomat	30 chr EAM 42Z2TT H3IPGSCCXDA3DTSCAYWHYECA

LOGS SECTION

Code	Freq	Date	UTC	Day	Details	Mode	ctrb
DPRK	14530	14-7	1835	Thu	North Korean diplo. QSX 14750 kHz	DPRK-ARQ 600/600 LSB	(Danix)
DPRK	14750	14-7	1835	Thu	North Korean diplo. QSX 14530 kHz	DPRK-ARQ 600/600 LSB	(Danix)
DPRK	14750	14-7	1912	Thu	North Korean diplo. QSX 14530 kHz	DPRK-ARQ 600/600 LSB	(Danix)
E06	13825	7-7	0500	Thu	679 583 102 67038 20056 12532 ... 15513 68358 13169 583 102 00000	USB	(HFD)
E06	15615	7-7	0600	Thu	679 583 102 67038 20056 12532 ... 15513 68358 13169 583 102 00000	USB	(AB/HFD)
E06	15615	8-7	0600	Fri	679 583 102 67038 20056 12532 ... 15513 68358 13169 583 102 00000	USB	(Danix)
E06	13825	21-7	0500	Thu	679 583 102 67038 20056 12532 ... 15513 68358 13169 583 102 00000	USB	(AB/Edd-S)
E06	15615	21-7	0600	Thu	679 583 102 67038 20056 12532 ... 15513 68358 13169 583 102 00000	USB	(AB/Edd-S)
E06	13825	22-7	0500	Fri	679 583 102 67038 20056 12532 ... 15513 68358 13169 583 102 00000	USB	(AB)
E06	15615	22-7	0600	Fri	679 583 102 67038 20056 12532 ... 15513 68358 13169 583 102 00000	USB	(AB)
E06	5731	22-7	2030	Fri	315 569 63 14259 22676 32782 32782 76723 89409 12215 74326 64070 90235 ...	USB	(AB/tING)
E07	9064	2-7	0600	Sat	024 024 024 000	USB	(AB)
E07	10264	2-7	0620	Sat	024 024 024 000	USB	(AB)
E07	9064	3-7	0600	Sun	024 024 024 000	USB	(AB)
E07	10264	3-7	0620	Sun	024 024 024 000	USB	(AB)
E07	13898	3-7	1700	Sun	817 1 315 125 47724 00834 86968 ... 33922 10313 53107 000 000	AM	(AB/HFD)
E07	12198	3-7	1720	Sun	817 1 315 125 47724 00834 86968 ... 33922 10313 53107 000 000	AM	(AB)
E07	10798	3-7	1740	Sun	817 1 315 125 47724 00834 86968 ... 33922 10313 53107 000 000	AM	(AB)
E07	13898	6-7	1700	Wed	817 817 817 000	AM	(AB)
E07	12198	6-7	1720	Wed	817 817 817 000	AM	(AB)
E07	16263	6-7	1900	Wed	273 273 273 000	USB	(AB)
E07	14763	6-7	1920	Wed	273 273 273 000	USB	(AB)
E07	11539	7-7	2010	Thu	553 553 553 000	AM	(AB)
E07	10547	7-7	2030	Thu	553 553 553 000	AM	(AB)
E07	9064	9-7	0600	Sat	024 024 024 000	USB	(AB)
E07	10264	9-7	0620	Sat	024 024 024 000	USB	(AB)
E07	9064	10-7	0600	Sun	024 024 024 000	USB	(AB)
E07	10264	10-7	0620	Sun	024 024 024 000	USB	(AB/BvR)
E07	13898	10-7	1700	Sun	817 817 817 000	AM	(AB)
E07	12198	10-7	1720	Sun	817 817 817 000	AM	(AB/BvR/M PJ)
E07	16263	11-7	1900	Mon	273 273 273 000	USB	(AB)
E07	14763	11-7	1920	Mon	273 273 273 000	USB	(AB/RL)
E07	13898	13-7	1700	Wed	817 2 799 65 29036 53494 44634 ... 37904 31188 60271 817 2 962 131 42760 15131 12609 ... 93939 17999 56150 000 000	AM	(AB/MPJ)
E07	12198	13-7	1728	Wed	817 2 799 65 29036 53494 44634 ... 37904 31188 60271 817 2 962 131 42760 15131 12609 ... 93939 17999 56150 000 000	AM	(AB)
E07	10798	13-7	1758	Wed	817 2 799 65 29036 53494 44634 ... 37904 31188 60271 817 2 962 131 42760 15131 12609 ... 93939 17999 56150 000 000	AM	(AB)
E07	16263	13-7	1900	Wed	273 273 273 000	USB	(AB/MPJ)
E07	14763	13-7	1920	Wed	273 273 273 000	USB	(AB/MPJ)
E07	11539	14-7	2010	Thu	553 553 553 000	AM	(AB)
E07	10547	14-7	2030	Thu	553 553 553 000	AM	(AB)
E07	9064	16-7	0600	Sat	024 024 024 000	USB	(AB)

E07	10264	16-7	0620	Sat	024 024 024 000	USB	(AB)
E07	9064	17-7	0600	Sun	024 024 024 000	USB	(AB)
E07	10264	17-7	0620	Sun	024 024 024 000	USB	(AB)
E07	13898	17-7	1700	Sun	817 2 799 65 29036 53494 44634 ... 37904 31188 60271 817 2 962 131 42760 15131 12609 ... 93939 17999 56150 000 000	AM	(AB/MPJ/Bv R)
E07	12198	17-7	1729	Sun	817 2 799 65 29036 53494 44634 ... 37904 31188 60271 817 2 962 131 42760 15131 12609 ... 93939 17999 56150 000 000	AM	(AB/BvR)
E07	10798	17-7	1758	Sun	817 2 799 65 29036 53494 44634 ... 37904 31188 60271 817 2 962 131 42760 15131 12609 ... 93939 17999 56150 000 000	AM	(AB)
E07	16263	18-7	1900	Mon	273 273 273 000	USB	(MPJ/HFD)
E07	14763	18-7	1920	Mon	273 273 273 000	USB	(MPJ/HFD)
E07	13898	20-7	1700	Wed	817 817 817 000	AM	(AB/MPJ)
E07	12198	20-7	1720	Wed	817 817 817 000	AM	(AB/MPJ)
E07	16263	20-7	1900	Wed	273 273 273 000	USB	(AB/MPJ)
E07	14763	20-7	1920	Wed	273 273 273 000	USB	(AB/MPJ)
E07	11539	21-7	2010	Thu	553 553 553 000	AM	(AB)
E07	10547	21-7	2030	Thu	553 553 553 000	AM	(AB)
E07	9064	23-7	0600	Sat	024 024 024 000	USB	(AB)
E07	10264	23-7	0620	Sat	024 024 024 000	USB	(AB)
E07	9064	24-7	0600	Sun	024 024 024 000	USB	(AB)
E07	10264	24-7	0620	Sun	024 024 024 000	USB	(AB/BvR)
E07	13898	24-7	1700	Sun	817 817 817 000	AM	(AB/MPJ)
E07	12198	24-7	1720	Sun	817 817 817 000	AM	(AB)
E07	16263	25-7	1900	Mon	273 273 273	USB	(AB/MPJ)
E07	14763	25-7	1920	Mon	273 273 273	USB	(AB/MPJ)
E07	13898	27-7	1700	Wed	817 817 817 000	AM	(AB)
E07	12198	27-7	1720	Wed	817 817 817 000	AM	(AB/MPJ/Bv R)
E07	16263	27-7	1900	Wed	273 273 273 000	AM	(AB/MPJ/RL)
E07	14763	27-7	1920	Wed	273 273 273 000	AM	(AB/MPJ)
E07	9064	30-7	0600	Sat	024 024 024 000	USB	(AB/Edd- HOL)
E07	10264	30-7	0620	Sat	024 024 024 000	USB	(AB/Edd- HOL)
E07	12173	30-7	0800	Sat	198 198 198 198 000	USB	(AB/Edd- HOL)
E07	13973	30-7	0820	Sat	198 198 198 198 000	USB	(AB/Edd- HOL)
E07	9064	31-7	0600	Sun	024 024 024 000	USB	(AB/BvR)
E07	10264	31-7	0620	Sun	024 024 024 000	USB	(AB)
E07	13898	31-7	1700	Sun	817 817 817 000	AM	(AB)
E07	12198	31-7	1720	Sun	817 817 817 000	AM	(AB)
E07a	12213	1-7	1510	Fri	241 241 241 000	USB	(AB/HFD)
E07a	11413	1-7	1530	Fri	241 241 241 000	USB	(MPJ/HFD)
E07a	12173	2-7	0800	Sat	198 198 198 000	USB	(AB/HFD)
E07a	13973	2-7	0820	Sat	198 198 198 000	USB	(AB/HFD)
E07a	12166	6-7	2000	Wed	172 1 64632 7071 79 33725 05175 91173 ... 57852 47189 02837 000 000	USB	(AB)
E07a	10766	6-7	2020	Wed	172 1 64632 7071 79 33725 05175 91173 ... 57852 47189 02837 000 000	USB	(AB)
E07a	9266	6-7	2040	Wed	172 1 64632 7071 79 33725 05175 91173 ... 57852 47189 02837 000 000	USB	(AB)
E07a	7933	7-7	0430	Thu	912 1 64632 7071 79 33725 05175 91173 ... 57852 47189 02837 000 000	USB	(AB)
E07a	9133	7-7	0450	Thu	912 1 64632 7071 79 33725 05175 91173 ... 57852 47189 02837 000 000	USB	(AB)
E07a	10233	7-7	0510	Thu	912 1 64632 7071 79 33725 05175 91173 ... 57852 47189 02837 000 000	USB	(AB)

E07a	12213	8-7	1510	Fri	241 1 12915 1499 59 36084 25366 96608 14589 19647 ... 79252 81988 95628 18336 04426 000 000	USB	(MPJ/HFD)
E07a	11413	8-7	1530	Fri	241 1 12915 1499 59 36084 25366 96608 14589 19647 ... 79252 81988 95628 18336 04426 000 000	USB	(MPJ/HFD)
E07a	10113	8-7	1550	Fri	241 1 12915 1499 59 36084 25366 96608 14589 19647 ... 79252 81988 95628 18336 04426 000 000	USB	(HFD)
E07a	12173	9-7	0800	Sat	198 1 12915 1499 59 36084 25366 96608 ... 95628 18336 04426 000 000	USB	(AB)
E07a	13973	9-7	0820	Sat	198 1 12915 1499 59 36084 25366 96608 ... 95628 18336 04426 000 000	USB	(AB)
E07a	14873	9-7	0840	Sat	198 1 12915 1499 59 36084 25366 96608 ... 95628 18336 04426 000 000	USB	(AB)
E07a	12166	13-7	2000	Wed	172 1 31310 7185 59 20798 66213 52802 ... 69571 55606 85449 000 000	USB	(AB/MPJ/D an)
E07a	10766	13-7	2020	Wed	172 1 31310 7185 59 20798 66213 52802 ... 69571 55606 85449 000 000	USB	(AB/MPJ/D an/RL)
E07a	9266	13-7	2040	Wed	172 1 31310 7185 59 20798 66213 52802 ... 69571 55606 85449 000 000	USB	(AB/MPJ/D an)
E07a	7933	14-7	0430	Thu	912 1 31310 7185 59 20798 66213 52802 ... 69571 55606 85449 000 000	USB	(AB)
E07a	9133	14-7	0450	Thu	912 1 31310 7185 59 20798 66213 52802 ... 69571 55606 85449 000 000	USB	(AB)
E07a	10233	14-7	0510	Thu	912 1 31310 7185 59 20798 66213 52802 ... 69571 55606 85449 000 000	USB	(AB)
E07a	12213	15-7	1510	Fri	241 241 241 000	USB	(AB)
E07a	11413	15-7	1530	Fri	241 241 241 000	USB	(AB)
E07a	12173	16-7	0800	Sat	198 198 198 000	USB	(AB)
E07a	13973	16-7	0820	Sat	198 198 198 000	USB	(AB)
E07a	12166	20-7	2000	Wed	172 172 172 000	USB	(AB/MPJ/D an)
E07a	10766	20-7	2020	Wed	172 172 172 000	USB	(AB/MPJ/D an)
E07a	7933	21-7	0430	Thu	912 912 912 000	USB	(AB/Edd-S)
E07a	9133	21-7	0450	Thu	912 912 912 000	USB	(AB/Edd-S)
E07a	12213	22-7	1510	Fri	241 241 241 000	USB	(AB/MPJ)
E07a	11413	22-7	1530	Fri	241 241 241 000	USB	(AB/MGC/A DS)
E07a	12173	23-7	0800	Sat	198 198 198 000	USB	(AB)
E07a	13973	23-7	0820	Sat	198 198 198 000	USB	(AB)
E07a	12166	27-7	2000	Wed	172 172 172 000	USB	(AB/RL/MPJ)
E07a	10766	27-7	2020	Wed	172 172 172 000	USB	(AB)
E07a	7933	28-7	0430	Thu	912 912 912 912 000	USB	(AB/Edd/sh a)
E07a	9133	28-7	0450	Thu	912 912 912 912 000	USB	(AB/Edd)
E07a	12213	29-7	1510	Fri	241 241 241 000	USB	(AB/MPJ)
E07a	11413	29-7	1530	Fri	241 241 241 000	USB	(AB/MPJ/Bv R)
E11	13424	1-7	0545	Fri	348/00	USB	(AB)
E11	13908	1-7	0600	Fri	181/00	USB	(AB)
E11	14753	1-7	0710	Fri	633/00	USB	(AB)
E11	13537	1-7	1225	Fri	521/00	USB	(AB)
E11	14940	1-7	1650	Fri	921/00	USB	(AB/MPJ)
E11	8530	1-7	2000	Fri	576/00	USB	(AB/MPJ)
E11	15905	2-7	0710	Sat	491/00	USB	(AB)
E11	11581	2-7	1300	Sat	585/00	USB	(AB/MPJ)
E11	15825	2-7	1345	Sat	911/00	USB	(AB)
E11	7984	2-7	1730	Sat	405/00	USB	(AB/MPJ/Bv R)
E11	17120	3-7	0730	Sun	352/00	USB	(AB)
E11	14975	3-7	0805	Sun	311/00	USB	(AB)
E11	4783	3-7	1605	Sun	232/00	USB	(AB)
E11	15795	3-7	1625	Sun	972/00	USB	(AB)

E11	14940	3-7	1650	Sun	921/00	USB	(AB)
E11	10800	4-7	0450	Mon	416/00	USB	(AB)
E11	9610	4-7	0745	Mon	262/00	USB	(AB)
E11	13427	4-7	0900	Mon	534/00	USB	(AB)
E11	13424	5-7	0645	Tue	517/00	USB	(AB)
E11	15732	5-7	0745	Tue	335/00	USB	(AB)
E11	13873	5-7	1045	Tue	576/00	USB	(AB)
E11	10302	5-7	1205	Tue	469/00	USB	(AB)
E11	15803	5-7	1300	Tue	133/00	USB	(AB)
E11	15803	5-7	1300	Tue	133/00	USB	(AB)
E11	9052	5-7	1450	Tue	441/00	USB	(AB/MPJ)
E11	14975	6-7	0805	Wed	311/00	USB	(AB)
E11	10213	6-7	0930	Wed	270/00	USB	(AB)
E11	10302	6-7	1205	Wed	469/00	USB	(AB)
E11	7984	6-7	1730	Wed	405/00	USB	(AB/BvR)
E11	13424	7-7	0645	Thu	517/00	USB	(AB)
E11	15905	7-7	0710	Thu	491/00	USB	(AB)
E11	15632	7-7	0745	Thu	335/00	USB	(AB)
E11	10213	7-7	0930	Thu	270/00	USB	(AB/GHn)
E11	9052	7-7	1450	Thu	441/00	USB	(AB)
E11	10356	7-7	1530	Thu	262/00	USB	(AB)
E11	11581	7-7	1925	Thu	551/00	USB	(MPJ)
E11	13424	8-7	0545	Fri	348/00	USB	(AB)
E11	14940	8-7	1650	Fri	921/00	USB	(AB)
E11	8530	8-7	2000	Fri	576/00	USB	(AB/MPJ)
E11	15905	9-7	0710	Sat	491/00	USB	(AB)
E11	11581	9-7	1300	Sat	585/00	USB	(AB/MPJ)
E11	14865	9-7	1705	Sat	392/00	USB	(AB)
E11	7984	9-7	1730	Sat	405/00	USB	(AB/MPJ)
E11	9130	9-7	2005	Sat	363/00	USB	(AB)
E11	17120	10-7	0730	Sun	352/00	USB	(AB)
E11	14940	10-7	1650	Sun	921/00	USB	(AB/MPJ)
E11	14410	10-7	1745	Sun	242/00	USB	(AB/MPJ)
E11	9130	10-7	2006	Sun	363/00	USB	(AB)
E11	7600	11-7	0530	Mon	649/00	USB	(Danix)
E11	6807	11-7	0820	Mon	438/00	USB	(AB)
E11	13537	11-7	1225	Mon	521/00	USB	(AB)
E11	13873	12-7	1045	Tue	576/00	USB	(AB)
E11	10302	12-7	1205	Tue	469/00	USB	(AB)
E11	11581	12-7	1925	Tue	551/00	USB	(AB)
E11	10302	13-7	1205	Wed	469/00	USB	(AB)
E11	15795	13-7	1625	Wed	972/00	USB	(AB/MPJ)
E11	14865	13-7	1705	Wed	391/00	USB	(AB)
E11	8565	14-7	0315	Thu	253/00	USB	(AB)
E11	13424	14-7	0645	Thu	517/00	USB	(AB)
E11	15632	14-7	0745	Thu	335/00	USB	(AB)
E11	6807	14-7	0820	Thu	438/00	USB	(AB)
E11	11581	14-7	1300	Thu	585/00	USB	(AB)
E11	10356	14-7	1530	Thu	269/40 Attention 67859 60273 96876 ... 73258 16803 17876 Attention, rpt msg, out	USB	(AB)
E11	13908	15-7	0600	Fri	181/00	USB	(AB)
E11	13537	15-7	1225	Fri	521/00	USB	(AB)
E11	14940	15-7	1650	Fri	921/00	USB	(AB)
E11	8530	15-7	2000	Fri	576/00	USB	(AB/MPJ/G Hn)
E11	15905	16-7	0710	Sat	491/00	USB	(AB)
E11	11581	16-7	1300	Sat	585/00	USB	(AB)
E11	14865	16-7	1705	Sat	392/00	USB	(AB)
E11	9130	16-7	2005	Sat	363/00	USB	(AB)
E11	4783	17-7	1605	Sun	232/00	USB	(AB)
E11	14940	17-7	1650	Sun	921/00	USB	(AB/MPJ/Bv R)
E11	9130	17-7	2005	Sun	363/00	USB	(AB/MPJ)
E11	10800	18-7	0450	Mon	416/00	USB	(AB)
E11	13908	18-7	0600	Mon	181/00	USB	(AB)

E11	9610	18-7	0745	Mon	262/00	USB	(AB)
E11	6807	18-7	0820	Mon	438/00	USB	(AB)
E11	13427	18-7	0900	Mon	534/00	USB	(AB)
E11	13573	18-7	1225	Mon	521/00	USB	(AB/MPJ)
E11	14753	19-7	0710	Tue	633/00	USB	(AB)
E11	13873	19-7	1045	Tue	576/00	USB	(AB/MPJ)
E11	15803	19-7	1300	Tue	133/00	USB	(AB)
E11	15825	19-7	1345	Tue	911/00	USB	(AB)
E11	9052	19-7	1450	Tue	441/00	USB	(AB)
E11	4783	19-7	1605	Tue	232/00	USB	(AB)
E11	11581	19-7	1925	Tue	551/00	USB	(AB/MPJ)
E11	13424	20-7	0545	Wed	348/00	USB	(AB)
E11	13427	20-7	0900	Wed	534/00	USB	(AB)
E11	10213	20-7	0930	Wed	270/00	USB	(AB)
E11	15803	20-7	1300	Wed	133/00	USB	(AB/MPJ)
E11	15795	20-7	1625	Wed	972/00	USB	(AB)
E11	14865	20-7	1705	Wed	392/00	USB	(AB/GHn)
E11	7984	20-7	1730	Wed	405/00	USB	(AB/MPJ)
E11	15905	21-7	0710	Thu	491/00	USB	(AB)
E11	15632	21-7	0745	Thu	335/00	USB	(AB)
E11	6807	21-7	0820	Thu	438/00	USB	(AB/Edd-HOL)
E11	10213	21-7	0930	Thu	270/00	USB	(AB/GHn/Edd-HOL)
E11	9052	21-7	1450	Thu	441/00	USB	(AB/MPJ)
E11	10356	21-7	1530	Thu	262/00	USB	(AB/MPJ)
E11	8088	21-7	1730	Thu	416/00	USB	(AB)
E11	11581	21-7	1925	Thu	551/00	USB	(MPJ)
E11	13424	22-7	0545	Fri	348/00	USB	(AB)
E11	13908	22-7	0600	Fri	181/00	USB	(AB/Edd-HOL)
E11	13537	22-7	1225	Fri	521/00	USB	(MPJ)
E11	13537	22-7	1225	Fri	521/00	USB	(AB)
E11	14940	22-7	1650	Fri	921/00	USB	(AB)
E11	8503	22-7	2000	Fri	576/00	USB	(MPJ)
E11	15825	23-7	1345	Sat	911/00	USB	(AB/Edd-HOL)
E11	14865	23-7	1705	Sat	392/00	USB	(MPJ)
E11	7984	23-7	1730	Sat	405/00	USB	(AB/MPJ)
E11	9130	23-7	2005	Sat	363/00	USB	(AB)
E11	17120	24-7	0730	Sun	352/00	USB	(AB)
E11	14975	24-7	0805	Sun	311/00	USB	(AB)
E11	4783	24-7	1605	Sun	232/00	USB	(AB)
E11	9130	24-7	2005	Sun	363/00	USB	(AB/GHn)
E11	7600	25-7	0530	Mon	649/00	USB	(AB)
E11	9610	25-7	0745	Mon	262/00	USB	(AB)
E11	13427	25-7	0900	Mon	534/00	USB	(AB)
E11	13573	25-7	1225	Mon	521/00	USB	(AB/MPJ)
E11	10302	26-7	1205	Tue	469/00	USB	(AB/GHn/Edd-HOL)
E11	15803	26-7	1300	Tue	133/00	USB	(AB)
E11	9052	26-7	1450	Tue	441/00	USB	(AB/MPJ)
E11	4783	26-7	1605	Tue	232/00	USB	(AB)
E11	13424	27-7	0545	Wed	348/00	USB	(AB/Edd)
E11	14975	27-7	0805	Wed	311/00	USB	(Edd)
E11	13427	27-7	0900	Wed	534/00	USB	(AB)
E11	10213	27-7	0930	Wed	270/00	USB	(AB)
E11	15795	27-7	1625	Wed	972/00	USB	(MPJ)
E11	15795	27-7	1625	Wed	972/00	USB	(AB)
E11	7984	27-7	1730	Wed	405/00	USB	(AB/MPJ/BvR)
E11	8565	28-7	0315	Thu	253/00	USB	(Edd-I)
E11	7600	28-7	0530	Thu	649/00	USB	(AB/Edd)
E11	13424	28-7	0645	Thu	517/00	USB	(AB)
E11	15632	28-7	0745	Thu	335/00	USB	(AB)
E11	6807	28-7	0820	Thu	438/00	USB	(AB)

E11	10213	28-7	0930	Thu	270/00	USB	(AB)
E11	11581	28-7	1300	Thu	585/00	USB	(MPJ/Edd-HOL)
E11	9052	28-7	1450	Thu	441/00	USB	(AB/GHn)
E11	10356	28-7	1530	Thu	262/00	USB	(AB/MPJ)
E11	8088	28-7	1730	Thu	416/00	USB	(AB/MPJ)
E11	14753	29-7	0710	Fri	633/00	USB	(AB)
E11	11581	30-7	1300	Sat	585/00	USB	(MPJ)
E11	7984	30-7	1730	Sat	405/00	USB	(AB/BvR/M PJ)
E11	9130	30-7	2005	Sat	363/00	USB	(AB)
E11	14975	31-7	0805	Sun	311/00	USB	(AB)
E11	4783	31-7	1605	Sun	232/00	USB	(AB)
E11	9130	31-7	2000	Sun	363/00	USB	(MPJ)
E11a	9130	3-7	2005	Sun	364/31 Attention 17869 11659 89208 ... 96094 42438 66444 Attention, rpt msg, out	USB	(AB)
E11a	6807	4-7	0820	Mon	438/34 Attention 06027 54397 60807 ... 75891 55589 43105 Attention, rpt msg, out	USB	(AB)
E11a	13537	4-7	1225	Mon	527/40 Attention 38084 95242 84672 ... 57151 67987 38305 Attention, rpt msg, out	USB	(AB)
E11a	15795	6-7	1625	Wed	976/32 Attention ...	USB	(AB)
E11a	6807	7-7	0820	Thu	438/34 Attention 06027 54397 60807 ... 75891 55589 43105 Attention, rpt msg, out	USB	(AB)
E11a	13537	8-7	1225	Fri	527/40 Attention 38084 95242 84672 ... 57151 67987 38305 Attention, rpt msg, out	USB	(AB/MPJ)
E11a	4783	10-7	1605	Sun	233/31 Attention 77103 96627 00848 ... 90183 86202 04646 Attention, rpt msg, out	USB	(AB)
E11a	15795	10-7	1625	Sun	976/32 Attention 40869 86407 24592 40025 58410 51456 06380 02203 ...	USB	(AB)
E11a	10800	11-7	0450	Mon	414/37 Attention 37630 24811 91067 ... 71678 73185 24751 Attention, rpt msg, out	USB	(AB)
E11a	9610	11-7	0745	Mon	269/40 Attention 67859 60273 96876 ... 73258 16803 17876 Attention, rpt msg, out	USB	(AB)
E11a	13427	11-7	0900	Mon	538/31 Attention 70527 67201 05168 ... 74066 92772 83604 Attention, rpt msg, out	USB	(AB)
E11a	9052	12-7	1450	Tue	440/32 Attention 56825 75642 93566 ... 79231 98960 89211 Attention, rpt msg, out	USB	(AB/MPJ)
E11a	14975	13-7	0805	Wed	314/36 Attention ...	USB	(AB)
E11a	13427	13-7	0900	Wed	538/31 Attention 70527 67201 05168 ... 74066 92772 83604 Attention, rpt msg, out	USB	(AB)
E11a	15803	13-7	1300	Wed	137/37 Attention 47816 18994 45375 ... 53460 12061 02593 Attention, rpt msg, out	USB	(AB)
E11a	7984	13-7	1730	Wed	400/32 Attention 80998 80705 13873 ... 91935 51677 38991 Attention, rpt msg, out	USB	(AB)
E11a	10213	14-7	0930	Thu	271/40 Attention 44367 79670 08628 ... 91083 46665 50301 Attention, rpt msg, out	USB	(AB)
E11a	9052	14-7	1450	Thu	440/32 Attention 56825 75642 93566 ... 79231 98960 89211 Attention, rpt msg, out	USB	(AB)
E11a	8088	14-7	1730	Thu	414/37 Attention 37630 24811 91067 ... 71678 73185 24751 Attention, rpt msg, out	USB	(AB)
E11a	13424	15-7	0545	Fri	342/34 Attention 36499 ...	USB	(AB)

E11a	14753	15-7	0710	Fri	632/33 Attention 06236 56325 75153 ... 86627 64124 31248 Attention, rpt msg, out	USB	(AB)
E11a	7984	16-7	1730	Sat	400/32 Attention 80998 80705 13873 ... 91935 51677 38991 Attention, rpt msg, out	USB	(AB)
E11a	14975	17-7	0805	Sun	314/36 Attention 36230 74307 33620 ... 50555 97737 08119 Attention, rpt msg, out	USB	(AB)
E11a	14410	17-7	1745	Sun	240/37 Attention ...	USB	(AB/MPJ)
E11a	7600	18-7	0530	Mon	646/33 Attention 75269 37852 74133 ... 15813 05204 96993 Attention, rpt msg, out	USB	(AB)
E11a	13424	19-7	0645	Tue	511/26 Attention ...	USB	(AB)
E11a	10302	19-7	1205	Tue	464/34 Attention 15353 59363 84414 ... 45316 99768 31685 Attention, rpt msg, out	USB	(AB/MPJ)
E11a	7600	21-7	0530	Thu	646/33 Attention 75269 37852 74133 ... 15813 05204 96993 Attention, rpt msg, out	USB	(AB/Edd-HOL)
E11a	13424	21-7	0645	Thu	511/36 Attention 16276 12192 60788 ... 20709 48721 06281 Attention, rpt msg, out	USB	(AB)
E11a	11581	21-7	1300	Thu	585/35 Attention 72373 92568 38516 17720 42991 ... 30565 44747 48525 55269 60218	USB	(MPJ)
E11a	11581	23-7	1300	Sat	585/35 Attention 72373 92568 38516 ... 48525 55269 60218 Attention, rpt msg, out	USB	(AB/Edd-HOL)
E11a	11581	26-7	1925	Tue	523/32 Attention 55399 25763 61001 33453 58459 ... 11404 57369 76379 43143 57301	USB	(AB/MPJ)
E11a	14865	27-7	1705	Wed	390/38 Attention 62651 88799 36293 ... 51075 23017 31377 Attention, rpt msg, out	USB	(AB/MPJ)
E11a	15905	28-7	0710	Thu	496/33 Attention 74259 01527 29190 ... 04447 85672 62770 Attention, rpt msg, out	USB	(AB)
E11a	11581	28-7	1925	Thu	523 55399 25763 61001 33453 58459 ... 11404 57369 76379 ... 43143 57301	USB	(MPJ)
E11a	14940	29-7	1650	Fri	922/36 Attention 15799 78836 56730 ... 67388 51704 38630 Attention, rpt msg, out	USB	(AB)
E11a	8530	29-7	2004	Fri	i.p. 22706 31878 71330 00479 79991 out	USB	(MPJ)
E11a	15905	30-7	0710	Sat	496/33 Attention 74259 01527 29190 ... 04447 85672 62770 Attention, rpt msg, out	USB	(AB)
E11a	14865	30-7	1711	Sat	390/38 Attention 62651 88799 36293 38589 28658 ... 10717 13421 51075 23017 31377	USB	(AB/Edd-HOL/MPJ)
E17z	16780	7-7	0800	Thu	674 920 5 33796 13577 74526 46647 79302 920 5 00000	USB	(AB)
E17z	12850	7-7	0810	Thu	674 920 5 33796 13577 74526 46647 79302 920 5 00000	USB	(AB)
E17z	16780	14-7	0800	Thu	674 920 5 33796 13577 74526 46647 79302 920 5 00000	USB	(AB)
E17z	12850	14-7	0810	Thu	674 920 5 33796 13577 74526 46647 79302 920 5 00000	USB	(AB)
E17z	6325	15-7	1715	Fri	end of E17z test 80453 38809 598 36 00000. Started at 1715 UTC	USB	(qsr711)
E17z	16780	21-7	0800	Thu	674 295 8 44365 43025 39283 33578 47568 40573 42474 34680 295 8 00000	USB	(AB/Edd-HOL)

E17z	12850	21-7	0810	Thu	674 295 8 44365 43025 39283 33578 47568 40573 42474 34680 295 8 00000	USB	(AB/Edd- HOL)
E17z	10240	22-7	1130	Fri	274 (R4) 981 981 35 35 33796 13577 74526 ... 34162 01405 15003 981 981 35 35 0 0 0	USB	(qsr711)
E17z	16780	28-7	0800	Thu	674 295 8 44365 43025 39283 33578 47568 40573 42474 34680 295 8 00000	USB	(AB/Edd- HOL)
E17z	12180	28-7	0810	Thu	674 295 8 44365 43025 39283 33578 47568 40573 42474 34680 295 8 00000	USB	(AB)
E17z	10240	31-7	1204	Sun	Test transmission	USB	(qsr711)
E17z	8080	31-7	1215	Sun	Test transmission	USB	(qsr711)
E25	6140	14-7	0745	Thu	Windows sound 254 Message 2744 2001 6810 5920 5283 5736 6998 0558 5003 6810 Rebeat 2744 2001 6810 5920 5283 5736 6998 0558 5003 6810 EOM EOT	AM	(AB-ISR)
E25	6140	14-7	0800	Thu	012 Message 4005 2730 3012 8183 0786 5927 9857 7274 Rebeat 4005 2730 3012 8183 0786 5927 9857 7274 End of message. End of trans- mission	AM	(AB-ISR)
EGY	14650	19-7	0710	Tue	MFA Cairo clg KXU: Egyptian em- bassy Harare or Accra	SITOR-A 100/170	(AAI)
F11	13537	1-7	0530	Fri	0453 00000	FSK 100/625	(AB)
F11	13537	1-7	0535	Fri	0453 00000	FSK 100/625	(AB)
F11	8423	1-7	0900	Fri	0554 00000	FSK 100/625	(AB)
F11	8423	1-7	0905	Fri	0554 00000	FSK 100/625	(AB)
F11	6480	4-7	0800	Mon	0434 88888 88888 06027 54397 60807 ... 75891 55589 43105 88888 88888 00038 00038	FSK 100/625	(AB)
F11	6480	4-7	0805	Mon	0434 88888 88888 06027 54397 60807 ... 75891 55589 43105 88888 88888 00038 00038	FSK 100/625	(AB)
F11	13424	4-7	0845	Mon	0353 00000	FSK 100/625	(AB)
F11	13424	4-7	0850	Mon	0353 00000	FSK 100/625	(AB)
F11	13470	5-7	0630	Tue	0574 00000	FSK 100/625	(AB)
F11	13470	5-7	0635	Tue	0574 00000	FSK 100/625	(AB)
F11	8423	5-7	0900	Tue	0554 88888 88888 46883 51637 47014 ... 86333 49398 56431 88888 88888 00038 00038	FSK 100/625	(AB)
F11	8423	5-7	0905	Tue	0554 88888 88888 46883 51637 47014 ... 86333 49398 56431 88888 88888 00038 00038	FSK 100/625	(AB)
F11	10210	5-7	1150	Tue	0325 00000	FSK 100/625	(AB)
F11	10210	5-7	1150	Tue	0325 00000	FSK 100/625	(AB)
F11	15690	5-7	1245	Tue	0132 00000	FSK 100/625	(AB)
F11	15690	5-7	1245	Tue	0132 00000	FSK 100/625	(AB)
F11	15690	5-7	1250	Tue	0132 00000	FSK 100/625	(AB)
F11	15690	5-7	1250	Tue	0132 00000	FSK 100/625	(AB)
F11	13637	6-7	0530	Wed	0453 00000	FSK 100/625	(AB)
F11	13637	6-7	0535	Wed	0453 00000	FSK 100/625	(AB)
F11	10210	6-7	1150	Wed	0325 00000	FSK 100/625	(AB)
F11	10210	6-7	1150	Wed	0325 00000	FSK 100/625	(AB)
F11	13470	7-7	0630	Thu	0574 00000	FSK 100/625	(AB)
F11	13470	7-7	0635	Thu	0574 00000	FSK 100/625	(AB)
F11	14940	7-7	0730	Thu	0433 00000	FSK 100/625	(AB)
F11	14940	7-7	0735	Thu	0433 00000	FSK 100/625	(AB)
F11	6480	7-7	0800	Thu	0434 88888 88888 06027 54397 60807 ... 75891 55589 43105 88888 88888 00038 00038	FSK 100/625	(AB)
F11	6480	7-7	0805	Thu	0434 88888 88888 06027 54397 60807 ... 75891 55589 43105 88888 88888 00038 00038	FSK 100/625	(AB)

F11	13537	8-7	0530	Fri	0453 00000	FSK 100/625	(AB)
F11	13537	8-7	0535	Fri	0453 00000	FSK 100/625	(AB)
F11	14575	8-7	0655	Fri	0684 00000	FSK 100/625	(AB)
F11	14575	8-7	0700	Fri	0684 00000	FSK 100/625	(AB)
F11	8423	8-7	0900	Fri	0554 88888 88888 46883 51637 47014 ... 86333 49398 56431 88888 88888 00038 00038	FSK 100/625	(AB)
F11	8423	8-7	0905	Fri	0554 88888 88888 46883 51637 47014 ... 86333 49398 56431 88888 88888 00038 00038	FSK 100/625	(AB)
F11	6480	11-7	0800	Mon	0434 00000	FSK 100/625	(AB)
F11	6480	11-7	0805	Mon	0434 00000	FSK 100/625	(AB)
F11	13424	11-7	0845	Mon	0353 88888 88888 70527 67201 05168 ... 74066 92772 83604 88888 88888 00035 00035	FSK 100/625	(AB)
F11	13424	11-7	0850	Mon	0353 88888 88888 70527 67201 05168 ... 74066 92772 83604 88888 88888 00035 00035	FSK 100/625	(AB)
F11	8423	12-7	0900	Tue	0554 00000	FSK 100/625	(AB)
F11	8423	12-7	0905	Tue	0554 00000	FSK 100/625	(AB)
F11	13637	13-7	0530	Wed	Polish Intel.	FSK 100/625	(AB)
F11	13637	13-7	0535	Wed	Polish Intel.	FSK 100/625	(AB)
F11	13424	13-7	0845	Wed	0353 88888 88888 70527 67201 05168 ... 74066 92772 83604 88888 88888 00035 00035	FSK 100/625	(AB)
F11	13424	13-7	0850	Wed	0353 88888 88888 70527 67201 05168 ... 74066 92772 83604 88888 88888 00035 00035	FSK 100/625	(AB)
F11	15690	13-7	1245	Wed	0132 88888 88888 47816 18994 45375 ... 53460 12061 02593 88888 88888 00041 00041	FSK 100/625	(AB)
F11	15690	13-7	1250	Wed	0132 88888 88888 47816 18994 45375 ... 53460 12061 02593 88888 88888 00041 00041	FSK 100/625	(AB)
F11	8456	14-7	0300	Thu	0231 00000	FSK 100/625	(AB)
F11	8456	14-7	0305	Thu	0231 00000	FSK 100/625	(AB)
F11	13470	14-7	0630	Thu	0574 00000	FSK 100/625	(AB)
F11	13470	14-7	0635	Thu	0574 00000	FSK 100/625	(AB)
F11	14940	14-7	0730	Thu	0433 00000	FSK 100/625	(AB)
F11	14940	14-7	0735	Thu	0433 00000	FSK 100/625	(AB)
F11	13537	15-7	0530	Fri	0453 message	FSK 100/625	(AB)
F11	14575	15-7	0530	Fri	0684 88888 88888 06236 56325 75153 ... 86627 64124 31248 88888 88888 00037 00037	FSK 100/625	(AB)
F11	13537	15-7	0535	Fri	0453 message	FSK 100/625	(AB)
F11	14575	15-7	0535	Fri	0684 88888 88888 06236 56325 75153 ... 86627 64124 31248 88888 88888 00037 00037	FSK 100/625	(AB)
F11	8423	15-7	0900	Fri	0554 00000	FSK 100/625	(AB)
F11	8423	15-7	0905	Fri	0554 00000	FSK 100/625	(AB)
F11	7837	18-7	0515	Mon	0446 88888 88888 75269 37852 74133 ... 15813 05204 96993 88888 88888 00037 00037	FSK 100/625	(AB)
F11	7837	18-7	0520	Mon	0446 88888 88888 75269 37852 74133 ... 15813 05204 96993 88888 88888 00037 00037	FSK 100/625	(AB)
F11	6480	18-7	0800	Mon	0434 00000	FSK 100/625	(AB)
F11	6480	18-7	0805	Mon	0434 00000	FSK 100/625	(AB)
F11	13424	18-7	0845	Mon	0353 00000	FSK 100/625	(AB)
F11	13424	18-7	0850	Mon	0353 00000	FSK 100/625	(AB)
F11	14575	19-7	0655	Tue	0684 00000	FSK 100/625	(AB)
F11	14575	19-7	0700	Tue	0684 00000	FSK 100/625	(AB)
F11	8423	19-7	0900	Tue	0554 00000	FSK 100/625	(AB)
F11	8423	19-7	0905	Tue	0554 00000	FSK 100/625	(AB)

F11	10210	19-7	1150	Tue	0325 88888 88888 15353 59363 84414 ... 45316 99768 31685 88888 88888 00038 00038	FSK 100/625	(AB)
F11	10210	19-7	1150	Tue	0325 88888 88888 15353 59363 84414 ... 45316 99768 31685 88888 88888 00038 00038	FSK 100/625	(AB)
F11	13537	20-7	0530	Wed	0453 00000	FSK 100/625	(AB)
F11	13537	20-7	0535	Wed	0453 00000	FSK 100/625	(AB)
F11	13424	20-7	0845	Wed	0353 00000	FSK 100/625	(AB)
F11	13424	20-7	0850	Wed	0353 00000	FSK 100/625	(AB)
F11	15690	20-7	1245	Wed	0132 00000	FSK 100/625	(AB)
F11	15690	20-7	1250	Wed	0132 00000	FSK 100/625	(AB)
F11	8456	21-7	0300	Thu	Polish Intel.	FSK 100/625	(AB)
F11	8456	21-7	0305	Thu	Polish Intel.	FSK 100/625	(AB)
F11	7837	21-7	0515	Thu	0446 88888 88888 75269 37852 74133 ... 15813 05204 96993 88888 88888 00037 00037	FSK 100/625	(AB)
F11	7837	21-7	0520	Thu	0446 88888 88888 75269 37852 74133 ... 15813 05204 96993 88888 88888 00037 00037	FSK 100/625	(AB)
F11	13470	21-7	0630	Thu	0574 88888 88888 16276 12192 60788 ... 20709 48721 06281 88888 88888 00040 00040	FSK 100/625	(AB)
F11	13470	21-7	0635	Thu	0574 88888 88888 16276 12192 60788 ... 20709 48721 06281 88888 88888 00040 00040	FSK 100/625	(AB)
F11	14940	21-7	0730	Thu	0433 00000	FSK 100/625	(AB)
F11	14940	21-7	0735	Thu	0433 00000	FSK 100/625	(AB)
F11	6480	21-7	0800	Thu	0434 00000	FSK 100/625	(AB)
F11	6480	21-7	0805	Thu	0434 00000	FSK 100/625	(AB)
F11	13537	22-7	0530	Fri	0453 00000	FSK 100/625	(AB)
F11	13537	22-7	0535	Fri	0453 00000	FSK 100/625	(AB)
F11	8423	22-7	0900	Fri	0554 00000	FSK 100/625	(AB)
F11	8423	22-7	0905	Fri	0554 00000	FSK 100/625	(AB)
F11	7837	25-7	0515	Mon	0446 00000	FSK 100/625	(AB)
F11	7837	25-7	0520	Mon	0446 00000	FSK 100/625	(AB)
F11	13424	25-7	0845	Mon	0353 00000	FSK 100/625	(AB)
F11	13424	25-7	0850	Mon	0353 00000	FSK 100/625	(AB)
F11	10210	26-7	1150	Tue	0325 00000	FSK 100/625	(AB)
F11	10210	26-7	1150	Tue	0325 00000	FSK 100/625	(AB)
F11	15690	26-7	1245	Tue	0132 00000	FSK 100/625	(AB)
F11	15690	26-7	1250	Tue	0132 00000	FSK 100/625	(AB)
F11	13537	27-7	0530	Wed	0453 00000	FSK 100/625	(AB)
F11	13537	27-7	0535	Wed	0453 00000	FSK 100/625	(AB)
F11	13424	27-7	0845	Wed	0353 00000	FSK 100/625	(AB)
F11	13424	27-7	0850	Wed	0353 00000	FSK 100/625	(AB)
F11	7837	28-7	0515	Thu	0446 00000	FSK 100/625	(AB)
F11	7837	28-7	0520	Thu	0446 00000	FSK 100/625	(AB)
F11	13470	28-7	0630	Thu	0574 00000	FSK 100/625	(AB)
F11	13470	28-7	0635	Thu	0574 00000	FSK 100/625	(AB)
F11	14940	28-7	0730	Thu	0433 00000	FSK 100/625	(AB)
F11	14940	28-7	0735	Thu	0433 00000	FSK 100/625	(AB)
F11	6480	28-7	0800	Thu	0434 00000	FSK 100/625	(AB)
F11	6480	28-7	0805	Thu	0434 00000	FSK 100/625	(AB)
F11	14575	29-7	0655	Fri	0684 00000	FSK 100/625	(AB)
F11	14575	29-7	0700	Fri	0684 00000	FSK 100/625	(AB)
G06	7320	4-7	0800	Mon	329 329 329 00000	USB	(AB)
G06	5348	4-7	1644	Mon	111 111 111 00000	USB	(AB)
G06	5348	4-7	1649	Mon	11	USB	(AB)
G06	5348	4-7	1700	Mon	574 574 574 00000	USB	(AB)
G06	5859	4-7	1710	Mon	111 111 111 00000 111	USB	(AB)
G06	5859	4-7	1715	Mon	111 111 111 00000 111 111	USB	(AB)
G06	5859	4-7	1747	Mon	111 1	USB	(AB)
G06	5859	4-7	1800	Mon	574 574 574 00000	USB	(AB)
G06	7425	6-7	1117	Wed	111 111 111 00000	USB	(AB)
G06	7425	6-7	1200	Wed	754 754 754 00000	USB	(AB)

G06	6956	6-7	1300	Wed	754 754 754 00000	USB	(AB)
G06	5890	7-7	1300	Thu	329 329 329 00000	USB	(AB)
G06	5348	11-7	1649	Mon	1	USB	(AB)
G06	5348	11-7	1700	Mon	574 574 574 00000	USB	(AB)
G06	5859	11-7	1708	Mon	00000 111 111 111 00000 1 111 111 11	USB	(AB)
G06	5859	11-7	1712	Mon	111 111 111 00	USB	(AB)
G06	5859	11-7	1744	Mon	11	USB	(AB)
G06	5859	11-7	1800	Mon	574 574 574 00000	USB	(AB)
G06	7425	13-7	1108	Wed	111 111 00000 111 111 111 00000 111 111 111 0000	USB	(AB)
G06	7425	13-7	1200	Wed	754 754 754 00000	USB	(AB)
G06	6956	13-7	1300	Wed	754 754 754 00000	USB	(AB)
G06	6887	14-7	1830	Thu	842 317 90 37839 35787 98273 ... 64848 85748 84784 317 90 00000	USB	(AB/GHn/M PJ)
G06	5943	15-7	1930	Fri	218 39x 20 ?	USB	(AB)
G06	7390	18-7	0700	Mon	00 111 111 111 00000 111 111 111 00000	USB	(AB)
G06	7390	18-7	0705	Mon	1 0 0 111 111 111 00000	USB	(AB)
G06	7390	18-7	0706	Mon	111 111 111 00000 111 111	USB	(AB)
G06	7390	18-7	0725	Mon	111	USB	(AB)
G06	7390	18-7	0800	Mon	329 329 329 00000	USB	(AB)
G06	6887	28-7	1830	Thu	842 317 90 37839 35787 98273 ... 64848 85748 84784 317 90 00000	USB	(AB/MPJ)
G06	5943	29-7	1930	Fri	218 ...	USB	(MPJ)
HM01	10860	1-7	0458	Fri	58562 33822 52232 86202 18109 08562	AM/RDFT	(AB)
HM01	10345	1-7	0557	Fri	58562 33822 52232 86202 18109 08562	AM/RDFT	(AB)
HM01	11435	1-7	1600	Fri	58563 33823 52233 86203 13281 08563	AM/RDFT	(RR2)
HM01	11462	2-7	0502	Sat	i.p. 58563 33823 52233 86203 13281 08563	AM/RDFT	(AB)
HM01	11435	2-7	1557	Sat	58563 33823 52233 86203 13281 08563, then changed to new groups 58564 33824 52234 86204 13281 08564	AM/RDFT	(AB)
HM01	11435	2-7	1602	Sat	i.p. 58564 33824 52234 86204 13281 08564	AM/RDFT	(RR2)
HM01	10860	3-7	0457	Sun	58564 33824 52234 86204 13281 08564	AM/RDFT	(AB)
HM01	10345	3-7	0557	Sun	58564 33824 52234 86204 13281 08564	AM/RDFT	(AB)
HM01	11435	3-7	1558	Sun	58565 33825 52235 86205 13282 08565	AM/RDFT	(RR2)
HM01	10715	3-7	2200	Sun	58565 33825 52235 86205 13282 08565	AM/RDFT	(Dan)
HM01	10860	4-7	0453	Mon	58565 33825 52235 86205 13282 08565. Early start	AM/RDFT	(AB)
HM01	9240	4-7	0857	Mon	58565 33825 52235 86205 13282 08565	AM/RDFT	(AB)
HM01	11435	4-7	1600	Mon	58566 33826 52236 86206 13283 08566	AM/RDFT	(RR2)
HM01	11635	4-7	1842	Mon	58566 33826 52236 86206 13283 08566	AM/RDFT	(DSch)
HM01	11435	5-7	1558	Tue	58567 33827 52237 86207 13284 08567	AM/RDFT	(RR2)
HM01	17480	5-7	2200	Tue	58567 33827 52237 86207 13284 08567	AM/RDFT	(Dan)
HM01	10860	6-7	0505	Wed	58567 33827 52237 86207 13284 08567	AM/RDFT	(AB)
HM01	11530	6-7	1700	Wed	Two new groups 28361 33828 52238 86208 13285 57681	AM/RDFT	(RR2)
HM01	11635	6-7	1747	Wed	28361 33828 52238 86208 13285 57681	AM/RDFT	(DSch)

HM01	11462	7-7	0512	Thu	i.p. 28361 33828 52238 86208 13285 57681	AM/RDFT	(AB)
HM01	14375	7-7	0557	Thu	28361 33828 52238 86208 13285 57681	AM/RDFT	(AB)
HM01	11435	7-7	1558	Thu	28361 21851 52239 01071 13286 57681	AM/RDFT	(RR2)
HM01	10860	8-7	0500	Fri	28361 21851 70560 01071 13286 57681	AM/RDFT	(SFNY)
HM01	11435	8-7	1558	Fri	28362 21851 70561 01071 13287 57682	AM/RDFT	(RR2)
HM01	11635	8-7	1800	Fri	28362 21851 70561 01071 13287 57682	AM/RDFT	(DSch)
HM01	11462	9-7	0501	Sat	28362 21851 70561 01071 13287 57682	AM/RDFT	(AB-USA)
HM01	14375	9-7	0557	Sat	28362 21851 70561 01071 13287 57682	AM/RDFT	(AB-USA)
HM01	13435	9-7	0657	Sat	28362 21851 70561 01071 13287 57682	AM/RDFT	(AB)
HM01	11435	9-7	1628	Sat	28363 21852 70562 01072 13288 57683	AM/RDFT	(RR2)
HM01	10860	10-7	0501	Sun	28363 21852 70562 01072 13288 57683	AM/RDFT	(AB)
HM01	10345	10-7	0557	Sun	28363 21852 70562 01072 13288 57683	AM/RDFT	(AB)
HM01	9330	10-7	0657	Sun	28363 21852 70562 01072 13288 57683	AM/RDFT	(AB/BvR)
HM01	11435	10-7	1559	Sun	28364 21853 70563 01073 20221 57684	AM/RDFT	(RR2)
HM01	10860	11-7	0454	Mon	28364 21853 70563 01073 20221 57684	AM/RDFT	(AB)
HM01	10345	11-7	0556	Mon	28364 21853 70563 01073 20221 57684	AM/RDFT	(AB)
HM01	9330	11-7	0657	Mon	28364 21853 70563 01073 20221 57684	AM/RDFT	(AB)
HM01	9065	11-7	0757	Mon	28364 21853 70563 01073 20221 57684	AM/RDFT	(AB)
HM01	9240	11-7	0857	Mon	28364 21853 70563 01073 20221 57684	AM/RDFT	(AB)
HM01	9155	11-7	0957	Mon	28364 21853 70563 01073 20221 57684	AM/RDFT	(AB-USA/DSch)
HM01	11435	11-7	1600	Mon	28365 21854 70564 01074 20221 57685	AM/RDFT	(RR2)
HM01	11530	11-7	1700	Mon	28365 21854 70564 01074 20221 57685	AM/RDFT	(DSch)
HM01	11462	12-7	0903	Tue	28365 21854 70564 01074 20221 57685	AM/RDFT	(AB)
HM01	12180	12-7	0957	Tue	28365 21854 70564 01074 20221 57685	AM/RDFT	(AB-USA/DSch)
HM01	11435	12-7	1559	Tue	28366 21855 70565 01075 20222 57686	AM/RDFT	(DSch/RR2)
HM01	17480	12-7	2200	Tue	28366 21855 70565 01075 20222 57686	AM/RDFT	(Dan)
HM01	10345	13-7	0557	Wed	28366 21855 70565 01075 20222 57686	AM/RDFT	(AB)
HM01	10860	13-7	0557	Wed	28366 21855 70565 01075 20222 57686	AM/RDFT	(AB)
HM01	9330	13-7	0657	Wed	28366 21855 70565 01075 20222 57686	AM/RDFT	(AB)
HM01	9065	13-7	0857	Wed	28366 21855 70565 01075 20222 57686	AM/RDFT	(AB-USA)
HM01	9240	13-7	0857	Wed	28366 21855 70565 01075 20222 57686	AM/RDFT	(AB-USA)
HM01	9155	13-7	0957	Wed	28366 21855 70565 01075 20222 57686	AM/RDFT	(AB-USA)
HM01	9155	13-7	1037	Wed	28366 21855 70565 01075 20222 57686	AM/RDFT	(DSch)

HM01	11435	13-7	1612	Wed	28367 21856 70566 01076 20223 57687	AM/RDFT	(DSch)
HM01	11530	13-7	1657	Wed	28367 21856 70566 01076 20223 57687	AM/RDFT	(AB-USA/RR2)
HM01	11462	14-7	0457	Thu	28367 21856 70566 01076 20223 57687	AM/RDFT	(AB)
HM01	14375	14-7	0557	Thu	28367 21856 70566 01076 20223 57687	AM/RDFT	(AB)
HM01	13435	14-7	0657	Thu	28367 21856 70566 01076 20223 57687	AM/RDFT	(AB)
HM01	11635	14-7	0834	Thu	i.p. 28367 21856 70566 01076 20223 57687	AM/RDFT	(AB)
HM01	11462	14-7	0857	Thu	28367 21856 70566 01076 20223 57687	AM/RDFT	(AB)
HM01	12180	14-7	0957	Thu	28367 21856 70566 01076 20223 57687	AM/RDFT	(AB/RR2)
HM01	12180	14-7	1037	Thu	28367 21856 70566 01076 20223 57687	AM/RDFT	(DSch)
HM01	11530	14-7	1700	Thu	07611 21857 70567 01077 20224 57688	AM/RDFT	(RR2)
HM01	10860	15-7	0455	Fri	07611 21857 70567 01077 20224 57688	AM/RDFT	(AB)
HM01	10345	15-7	0558	Fri	07611 21857 70567 01077 20224 57688	AM/RDFT	(AB)
HM01	9330	15-7	0657	Fri	07611 21857 70567 01077 20224 57688	AM/RDFT	(AB)
HM01	9240	15-7	0857	Fri	07611 21857 70567 01077 20224 57688	AM/RDFT	(AB)
HM01	9155	15-7	1036	Fri	07611 21857 70567 01077 20224 57688	LSB/RDFT	(AB-USA)
HM01	11435	15-7	1600	Fri	i.p. 07611 00211 75641 01078 20225 57689	AM/RDFT	(RR2)
HM01	11530	15-7	1743	Fri	07611 00211 75641 01078 20225 57689	AM/RDFT	(DSch)
HM01	11462	16-7	0456	Sat	07611 00211 75641 01078 20225 57689	AM/RDFT	(AB)
HM01	14375	16-7	0558	Sat	07611 00211 75641 01078 20225 57689	AM/RDFT	(AB)
HM01	13435	16-7	0657	Sat	07611 00211 75641 01078 20225 57689	AM/RDFT	(AB)
HM01	11635	16-7	0757	Sat	07611 00211 75641 01078 20225 57689	AM/RDFT	(AB)
HM01	11462	16-7	0857	Sat	07611 00211 75641 01078 20225 57689	AM/RDFT	(AB)
HM01	12180	16-7	0957	Sat	07611 00211 75641 01078 20225 57689	AM/RDFT	(AB)
HM01	11435	16-7	1558	Sat	07611 00211 75641 01078 20225 57689 followed by new groups 07612 00211 75641 01079 20226 13351	AM/RDFT	(RR2)
HM01	11530	16-7	1749	Sat	07612 00211 75641 01079 20226 13351	AM/RDFT	(DSch)
HM01	17480	16-7	2200	Sat	07612 00211 75641 01079 20226 13351	AM/RDFT	(Dan)
HM01	10860	17-7	0456	Sun	07612 00211 75641 01079 20226 13351	AM/RDFT	(AB)
HM01	10345	17-7	0557	Sun	07612 00211 75641 01079 20226 13351	AM/RDFT	(AB)
HM01	9330	17-7	0657	Sun	07612 00211 75641 01079 20226 13351	AM/RDFT	(AB)
HM01	9065	17-7	0755	Sun	07612 00211 75641 01079 20226 13351	AM/RDFT	(AB)
HM01	9155	17-7	1005	Sun	07612 00211 75641 01079 20226 13351	AM/RDFT	(RR2)
HM01	11435	17-7	1558	Sun	07613 00212 75642 15521 20227 13351	AM/RDFT	(RR2)

HM01	10860	18-7	0518	Mon	07613 00212 75642 15521 20227 13351	AM/RDFT	(AB)
HM01	10345	18-7	0558	Mon	07613 00212 75642 15521 20227 13351	AM/RDFT	(AB)
HM01	11435	18-7	1558	Mon	07614 00213 75643 15521 20228 13352	USB	(RR2)
HM01	11435	18-7	1635	Mon	07614 00213 75643 15521 20228 13352	AM/RDFT	(DSch)
HM01	11435	19-7	1630	Tue	07615 00214 75644 15522 20229 13353	AM/RDFT	(RR2)
HM01	11435	19-7	1633	Tue	07615 00214 75644 15522 20229 13253	AM/RDFT	(DSch)
HM01	10860	20-7	0455	Wed	07615 00214 75644 15522 20229 13353	AM/RDFT	(AB)
HM01	11435	20-7	1558	Wed	07616 00215 75645 15523 88281 13354	AM/RDFT	(RR2)
HM01	11435	20-7	1614	Wed	07616 00215 75645 15523 88681 13254	AM/RDFT	(DSch)
HM01	11462	21-7	0459	Thu	07616 00215 75645 15523 88281 13354	AM/RDFT	(AB)
HM01	14375	21-7	0600	Thu	Spanish numbers and data transmission.	AM/RDFT	(CtY)
HM01	11435	21-7	1558	Thu	07617 00216 75646 15524 88281 13355	AM/RDFT	(AB)
HM01	10860	22-7	0454	Fri	07617 00216 75646 15524 88281 13355	AM/RDFT	(AB)
HM01	10345	22-7	0552	Fri	07617 00216 75646 15524 88281 13355. Early start	AM/RDFT	(AB)
HM01	9155	22-7	0956	Fri	07617 00216 75646 15524 88281 13355	AM/RDFT	(AB)
HM01	11435	22-7	1558	Fri	07618 00217 75647 15525 88282 13356	AM/RDFT	(RR2)
HM01	11530	22-7	1749	Fri	07618 00217 75647 15525 88282 13256	AM/RDFT	(DSch)
HM01	11635	22-7	1800	Fri	07618 00217 75647 15525 88282 13256	AM/RDFT	(DSch)
HM01	11635	22-7	2100	Fri	07618 00217 75647 15525 88282 13256	AM/RDFT	(DSch)
HM01	11635	22-7	2130	Fri	Spanish numbers and data transmission	AM/RDFT	(CtY/MDK2)
HM01	10715	22-7	2200	Fri	07618 00217 75647 15525 88282 13256	AM/RDFT	(DSch)
HM01	11462	23-7	0459	Sat	07618 00217 75647 15525 88282 13356	AM/RDFT	(AB)
HM01	14375	23-7	0559	Sat	07618 00217 75647 15525 88282 13356	AM/RDFT	(AB)
HM01	13435	23-7	0657	Sat	07618 00217 75647 15525 88282 13356	AM/RDFT	(AB)
HM01	11635	23-7	0800	Sat	07618 00217 75647 15525 88282 13356	AM/RDFT	(AB)
HM01	11462	23-7	0857	Sat	07618 00217 75647 15525 88282 13356	AM/RDFT	(AB)
HM01	12180	23-7	0957	Sat	07618 00217 75647 15525 88282 13356	AM/RDFT	(AB)
HM01	11435	23-7	1614	Sat	33231 00218 75648 15526 88283 13357	AM/RDFT	(DSch)
HM01	11635	23-7	1800	Sat	33231 00218 75648 15526 88283 13357	AM/RDFT	(RR2)
HM01	16180	23-7	2128	Sat	33231 00218 75648 15526 88283 13357	AM/RDFT	(RR2)
HM01	17480	23-7	2153	Sat	SS 5-digits / data	AM/RDFT	(Danu)
HM01	10860	24-7	0500	Sun	33231 00218 75648 15526 88283 13357	AM/RDFT	(AB)
HM01	10345	24-7	0559	Sun	33231 00218 75648 15526 88283 13357	AM/RDFT	(AB)

HM01	9330	24-7	0659	Sun	33231 00218 75648 15526 88283 13357	AM/RDFT	(AB)
HM01	9330	24-7	0700	Sun	33231 00218 75648 15526 88283 13357	AM/RDFT	(BvR)
HM01	11435	24-7	1600	Sun	33231 03761 44611 15527 88284 13358	AM/RDFT	(RR2)
HM01	11530	24-7	1600	Sun	323231 03761 44611 15527 88284 13358	AM/RDFT	(DSch)
HM01	11530	24-7	1600	Sun	33231 03761 44611 15527 88284 13358	AM/RDFT	(DSch)
HM01	11635	24-7	2130	Sun	YL is usual 5 number sequence in Spanish, followed by tones	AM/RDFT	(CtY)
HM01	10860	25-7	0455	Mon	33231 03761 44611 15527 88284 13358	AM/RDFT	(AB)
HM01	10345	25-7	0600	Mon	33231 03761 44611 15527 88284 13358	AM/RDFT	(AB)
HM01	11435	25-7	1558	Mon	33232 03761 44611 15528 88285 13359	AM/RDFT	(RR2)
HM01	10715	25-7	2236	Mon	i.p. 323231 03761 44611 15527 88284 13358	AM/RDFT	(DSch)
HM01	11530	26-7	1659	Tue	33233 03762 44612 86301 88286 03511	AM/RDFT	(DSch)
HM01	11530	26-7	1729	Tue	33233 03762 44612 86301 88286 03511	AM/RDFT	(RR2)
HM01	11635	26-7	1800	Tue	33233 03762 44612 86301 88286 03511	AM/RDFT	(AB-USA)
HM01	10860	27-7	0457	Wed	33233 03762 44612 86301 88286 03511	AM/RDFT	(AB)
HM01	11530	27-7	1658	Wed	33234 03763 44613 86301 88287 03511	AM/RDFT	(RR2)
HM01	11530	27-7	1700	Wed	33234 03763 44613 86301 88287 03511	AM/RDFT	(DSch)
HM01	11462	28-7	0501	Thu	33234 03763 44613 86301 88287 03511	AM/RDFT	(AB)
HM01	11635	28-7	1758	Thu	33235 03764 44614 86302 88288 03512	AM/RDFT	(RR2)
HM01	11635	28-7	1759	Thu	33235 03764 44614 86302 88288 03512	AM/RDFT	(DSch)
HM01	16180	28-7	2135	Thu	Spanish series of five numbers by YL into electronic tones	AM/RDFT	(CtY)
HM01	11435	29-7	1600	Fri	i.p. 33236 03765 44615 86303 88289 03513	AM/RDFT	(RR2)
HM01	11530	29-7	1711	Fri	33236 03765 44615 86303 88289 03513	AM/RDFT	(DSch)
HM01	11462	30-7	0501	Sat	33236 03765 44615 86303 88289 03513	AM/RDFT	(AB)
HM01	13435	30-7	0713	Sat	i.p. 33236 03765 44615 86303 88289 03513	AM/RDFT	(AB)
HM01	11435	30-7	1558	Sat	33237 03766 44616 86304 41251 03514	AM/RDFT	(RR2)
HM01	16180	30-7	2100	Sat	YL in Spanish in five number series and tones	AM/RDFT	(CtY)
HM01	10345	31-7	0557	Sun	33237 03766 44616 86304 41251 03514	AM/RDFT	(AB)
HM01	11530	31-7	1658	Sun	33238 03767 44617 86305 41251 03515	AM/RDFT	(RR2)
HM01	11635	31-7	2100	Sun	33238 03767 44617 86305 41251 03515	AM/RDFT	(DSch)
HM02	7351	1-7	0432	Fri	149 52 = 84286 73709 95231 ... 76550 50006 31857 = 149 52 149 52 = repeats message = 149 52 000	FSK-19.8bd/129Hz/FSK-CW	(BR)
HM02	7351	2-7	0428	Sat	710 49 = 11262 90438 28239 ... 20390 47029 62476 = 710 49 710 49 = repeats message = 710 49 000	FSK-19.8bd/129Hz/FSK-CW	(AB)
HM02	7351	3-7	0434	Sun	843 55 = 29230 33884 65488 ... 72249 86714 89042 = 843 55 843 55 = repeats message = 843 55 000	FSK-19.8bd/129Hz/FSK-CW	(AB)

HM02	7351	4-7	0437	Mon	Garbled morse. Restarted 0442 UTC. 570 59 = 22395 20154 41039 ... 58845 54919 72492 = 570 59 570 59 = repeats message = 570 59 000	FSK-19.8bd/129Hz/FSK-CW	(AB)
HM02	7351	5-7	0430	Tue	257 51 = 51112 01392 31328 ... 43108 72142 09812 = 257 51 257 57 = repeats message = 257 57 000	FSK-19.8bd/129Hz/FSK-CW	(AB)
HM02	7351	6-7	0440	Wed	487 59 = 24562 67874 25634 ... 90598 00830 59269 = 487 59 = re- peats message = 487 59 000	FSK-19.8bd/129Hz/FSK-CW	(AB/BR)
HM02	7351	7-7	0434	Thu	241 60 = 18542 31487 09634 ... 67973 14390 67628 = 241 60 241 60 = repeats message = 241 60 000	FSK-19.8bd/129Hz/FSK-CW	(AB)
HM02	7351	9-7	0430	Sat	364 57 = 18542 31487 09634 ... 47854 12578 95748 = 364 57 364 57 = repeats message = 364 57 000	FSK-19.8bd/129Hz/FSK-CW	(AB)
HM02	7351	10-7	0432	Sun	549 54 = 24562 67874 25634 ... 90598 00830 59269 = 549 54 549 54 = repeats message = 549 54 000	FSK-19.8bd/129Hz/FSK-CW	(AB)
HM02	7351	11-7	0450	Mon	621 63 = 24562 67874 25634 ... 55362 79390 25434 = 621 63 621 63 = repeats message = 621 63 000	FSK-19.8bd/129Hz/FSK-CW	(AB)
HM02	7351	12-7	0430	Tue	253 58 = 65388 52734 04860 ... 70515 31266 02062 = 253 58 253 58 = repeats message = 253 58 000	FSK-19.8bd/129Hz/FSK-CW	(AB)
HM02	7351	13-7	0430	Wed	9 9 9 685 52 = 65984 31487 09634 ... 58456 75845 89748 = 685 52 685 52 = repeats message = 685 52 000	FSK-19.8bd/129Hz/FSK-CW	(AB)
HM02	7351	14-7	0437	Thu	218 57 = 24562 67874 25634 ... 90598 00830 59269 = 218 57 218 57 = repeats message = 218 57 000	FSK-19.8bd/129Hz/FSK-CW	(AB)
HM02	7351	15-7	0422	Fri	905 48 = 27687 30547 88377 ... 66007 72646 38050 = 905 48 905 48 = repeats message = 905 48 000	FSK-19.8bd/129Hz/FSK-CW	(AB)
HM02	7351	16-7	0427	Sat	547 51 = 87594 89283 81721 ... 37856 71136 87850 = 547 51 547 51 = repeats message = 547 51 000	FSK-19.8bd/129Hz/FSK-CW	(AB)
HM02	7351	17-7	0425	Sun	659 47 = 09733 64247 02170 ... 12548 12547 21563 = 659 47 659 47 = repeats message = 659 47 000	FSK-19.8bd/129Hz/FSK-CW	(AB)
HM02	7351	18-7	0431	Mon	869 48 = 24562 67874 25634 ... 90598 00830 59269 = 869 48 869 48 = repeats message = 869 48 000	FSK-19.8bd/129Hz/FSK-CW	(AB)
HM02	7351	19-7	0430	Tue	489 57 = 24562 67874 25634 ... 26055 63341 90598 = 489 57 489 57 = repeats message = 489 57 000	FSK-19.8bd/129Hz/FSK-CW	(AB/BR)
HM02	7351	20-7	0431	Wed	357 62 = 07373 18164 55078 ... 12365 12554 12554 = 357 62 357 62 = repeats message = 357 62 000	FSK-19.8bd/129Hz/FSK-CW	(AB)
HM02	7351	21-7	0430	Thu	385 46 = 24562 67874 25634 ... 23398 55992 88598 = 385 46 385 46 = repeats message = 385 46 000	FSK-19.8bd/129Hz/FSK-CW	(AB)
HM02	7351	22-7	0426	Fri	871 56 = 24562 67874 25634 ... 90598 00830 59269 = 871 56 871 56 = repeats message = 871 56 000	FSK-19.8bd/129Hz/FSK-CW	(AB)
HM02	7351	23-7	0443	Sat	365 68 = 53714 76041 75462 ... 50228 54444 66514 = 365 68 365 68 = repeats message = 365 68 (no 000 sent)	FSK-19.8bd/129Hz/FSK-CW	(AB)
HM02	7351	24-7	0424	Sun	936 51 = 11605 63631 00030 ... 88823 28480 66254 = 936 51 936 51 = repeats message = 936 51 000	FSK-19.8bd/129Hz/FSK-CW	(AB)
HM02	7351	25-7	0426	Mon	784 49 = 82247 76594 81625 ... 50572 62788 30462 = 784 49 784 49 = repeats message = 784 49 000	FSK-19.8bd/129Hz/FSK-CW	(AB)
HM02	7351	26-7	0511	Tue	Msg in FSK 50/129: 961 58 = 53714 76041 75462 ... 47118 01432 04765	FSK-19.8bd/129Hz/FSK-CW	(AB)

					then into CW: 961 58 = 53714 76041 75462 ... 50220 54444 66514 961 58 = 000		
HM02	7351	27-7	0430	Wed	214 53 = 27460 10547 24430 ... 32274 74013 37382 = 214 53 214 53 = repeats message = 214 53 000	FSK-19.8bd/129Hz/FSK-CW	(AB/BR)
HM02	7351	28-7	0431	Thu	312 54 = 84187 03530 15450 ... 51030 41713 06372 = 312 54 312 54 = repeats message = 312 54 000	FSK-19.8bd/129Hz/FSK-CW	(AB/BR)
HM02	7351	29-7	0427	Fri	176 63 = 73856 39588 45096 ... 12594 04568 95746 = 176 63 176 63 = repeats message = 176 63 000	FSK-19.8bd/129Hz/FSK-CW	(AB/BR)
HM02	7351	30-7	0442	Sat	839 57 = 53714 76041 75462 ... 85316 50228 54444 = 839 57 839 57 = repeats message = 839 57 000	FSK-19.8bd/129Hz/FSK-CW	(AB)
HM02	7351	31-7	0425	Sun	231 54 = 31402 80962 03747 ... 04568 95746 68877 = 231 54 231 54 = repeats message = 231 54 000	FSK-19.8bd/129Hz/FSK-CW	(AB)
M01	5280	5-7	1800	Tue	025 118 30 = = 71364 66358 06350 19913 63888 ... 16614 52454 45892 55895 01969 = 118 30 000	CW	(AB/MPJ)
M01	6780	10-7	0700	Sun	025 (R) 134 134 30 30 = 13941 41499 34581 ... 48244 94834 13025 134 134 30 30 000	CW	(AB)
M01	5280	14-7	1800	Thu	025 901 30 = = 27774 91768 07305 61_64 44871 ... 95058 17__4 7925_ 90701 85863 = = 901 30 000	CW	(MPJ)
M01	6780	17-7	0703	Sun	i.p. 32215 47856 47856 ...	CW	(AB)
M01	5280	21-7	1800	Thu	025 907 30 = = 20521 14165 94345 93883 46209 ... 97978 52229 49048 71119 78481 907 30 000	CW	(MPJ)
M01a	4965	26-7	2030	Tue	i.p. 58383 = 34020 111 999 = _	CW	(uascan)
M01a	5110	26-7	2040	Tue	431 431 431 431 111 999	CW	(uascan)
M01a	5131	26-7	2105	Tue	999 x7x20 = 79114 49x5x 45454 x2916 95958 ... 91208 x8557 70407 = 97420 958 958 958 111 999	CW	(uascan)
M01a	5131	26-7	2133	Tue	958 958 958 111 000	CW	(uascan)
M01a	5751	27-7	0845	Wed	999 301 301 301 111 999 301 301 301 111 999 111 301 111 999 301 301 301 111 999	CW	(uascan)
M01a	5391	27-7	0855	Wed	975 975 975 111 999	CW	(uascan)
M01a	5391	27-7	1005	Wed	52320 = 43396 70713 38325 01383 76089 93186 37156 43500 52570 62552 06525 12349 64225 06927 20077 86965 058911 06981 3 = 52320	CW	(uascan)
M01a	5391	27-7	1018	Wed	975 975 975	CW	(uascan)
M01a	5183	27-7	1319	Wed	346 346 346 86769 86769 87010 87010 87010 87010 346 346 346 86029 86029 346 346 346 87231 87231 346 346 346 87 231 87231 00000	CW	(uascan)
M01a	5263.9	28-7	0745	Thu	489 489 489 77 182 77 182 489 489 489 77 182 77 333 0106 333 0106 333 0106 333 0106	CW	(uascan)
M01a	5263.9	28-7	0756	Thu	i.p. 110 5FGs = 52110 = 52110 = x2x 111 000	CW	(uascan)
M01a	5263.9	28-7	0824	Thu	111 489 489 489 111 489 489 489 111 489 489 489	CW	(AB)
M01a	5263.9	28-7	0825	Thu	111 77168 77168	CW	(AB)
M01a	5263.9	28-7	0936	Thu	489 489 489 77156 333 333 11 111 999 139 10 = 46853 31035 47965 22134 32134 ...	CW	(AB)
M01b	5075	1-7	1902	Fri	336 146 36 = = 31407 38617 20647 38967 77189 ... 54120 25486 46971 14750 32123 = = 146 36 000 //5465 kHz	MCW	(MPJ)

M01b	5465	1-7	1902	Fri	336 146 36 = = 31407 38617 20647 38967 77189 ... 54120 25486 46971 14750 32123 = = 146 36 000 //5075 kHz	MCW	(MPJ)
M01b	4895	1-7	2010	Fri	467 146 36 = = 31407 38617 20647 38967 77189 ... 54120 25486 46971 14750 32123 = = 146 36 000 //5340 kHz	MCW	(MPJ)
M01b	5340	1-7	2010	Fri	467 146 36 = = 31407 38617 20647 38967 77189 ... 54120 25486 46971 14750 32123 = = 146 36 000 //4895 kHz	MCW	(MPJ)
M01b	5232	5-7	1255	Tue	278 711 10 = 54069 48011 32479 84561 86546 65418 64510 65416 85498 54635 = = 711 10 000	CW	(F5JBR)
M01b	5095	7-7	1832	Thu	815 146 36 = = 31407 38617 20647 38967 77189 ... //5760 kHz	MCW	(MPJ)
M01b	5760	7-7	1832	Thu	815 146 36 = = 31407 38617 20647 38967 77189 ... //5095 kHz	MCW	(MPJ)
M01b	5465	8-7	1902	Fri	336 146 36 = = 31407 38617 20647 38967 77189 ... 25486 46971 14750 32123 = = 146 36 000	MCW	(AB/MPJ)
M01b	5340	8-7	2010	Fri	467 146 36 = = 31407 38617 20647 38967 77189 ... 25486 46971 14750 32123 = = 146 36 000	CW	(AB)
M01b	5075	15-7	1902	Fri	336 707 30 = = 11283 84579 21901 54181 76541 ... 18189 87234(?) 61255 14444 41303 = = 707 30 000	MCW	(AB)
M01b	5125	18-7	1810	Mon	364 707 30 = = 11293 84579 21901 54181 76541 ... 18189 88234 61255 11444 41303 = = 707 30 000	MCW	(MPJ)
M01b	5150	18-7	1915	Mon	858 707 30 = = 11293 84579 21901 54181 76541 ... 18189 88234 61255 11444 41303 = = 707 30 000	MCW	(MPJ)
M01b	5095	21-7	1832	Thu	815 707 30 = = 11293 84579 21901 54181 76541 ... 18189 88234 61255 11444 41303 = = 707 30 000 //5760 kHz	MCW	(MPJ)
M01b	5760	21-7	1832	Thu	815 707 30 = = 11293 84579 21901 54181 76541 ... 18189 88234 61255 11444 41303 = = 707 30 000 //5095 kHz	MCW	(MPJ)
M01b	5065	21-7	1942	Thu	936 707 30 = = 11293 84579 21901 54181 76541 ... 18189 88234 61255 11444 41303 = = 707 30 000 //5805 kHz	MCW	(MPJ)
M01b	5805	21-7	1942	Thu	936 707 30 = = 11293 84579 21901 54181 76541 ... 18189 88234 61255 11444 41303 = = 707 30 000 //5065 kHz	MCW	(MPJ)
M01b	5095	28-7	1832	Thu	815 707 30 = = 11293 84579 21901 54181 76541 ... 18189 88234 61255 11444 41303 = = 707 30 000 //5760 kHz	MCW	(MPJ)
M01b	5760	28-7	1832	Thu	815 707 30 = = 11293 84579 21901 54181 76541 ... 18189 88234 61255 11444 41303 = = 707 30 000 //5095 kHz	MCW	(MPJ)
M01b	5065	28-7	1942	Thu	936 707 30 = = 11293 84579 21901 54181 76541 ... 18189 88234 61255 11444 41303 = = 707 30 000 //5805 kHz	MCW	(MPJ)
M01b	5805	28-7	1942	Thu	936 707 30 = = 11293 84579 21901 54181 76541 ... 18189 88234 61255 11444 41303 = = 707 30 000 //5065 kHz	MCW	(MPJ)

M01b	5075	29-7	1902	Fri	336 707 30 = = 11293 84579 21901 54181 76541 ... 18189 88234 61255 11444 41303 = = 707 30 000 //5465 kHz	MCW	(MPJ)
M01b	5465	29-7	1902	Fri	336 707 30 = = 11293 84579 21901 54181 76541 ... 18189 88234 61255 11444 41303 = = 707 30 000 //5075 kHz	MCW	(MPJ)
M12	9217	2-7	0500	Sat	262 262 262 000	CW	(AB)
M12	10617	2-7	0520	Sat	262 262 262 000	CW	(AB)
M12	13926	2-7	1310	Sat	919 919 919 000	CW	(AB/MPJ/H FD)
M12	12126	2-7	1330	Sat	919 919 919 000	CW	(AB/MPJ/H FD)
M12	14869	2-7	2110	Sat	851 851 851 000	CW	(HFD)
M12	13569	2-7	2130	Sat	851 851 851 000	CW	(HFD)
M12	6857	4-7	0430	Mon	850 850 850 000	CW	(AB)
M12	12205	4-7	1100	Mon	973 1 (R) 7446 116 57815 81729 89615 ... 49202 36772 82483 000 000	CW	(AB/HFD)
M12	13559	4-7	1120	Mon	973 1 (R) 7446 116 57815 81729 89615 ... 49202 36772 82483 000 000	CW	(AB/HFD)
M12	14728	4-7	1140	Mon	973 1 (R) 7446 116 57815 81729 89615 ... 49202 36772 82483 000 000	CW	(AB/HFD)
M12	8053	5-7	0800	Tue	816 1 (R) 5566 52 18022 04423 26395 ... 46226 26985 60210 000 000	CW	(AB)
M12	9178	5-7	0820	Tue	816 1 (R) 5566 52 18022 04423 26395 ... 46226 26985 60210 000 000	CW	(AB)
M12	10287	5-7	0840	Tue	816 1 (R) 5566 52 18022 04423 26395 ... 46226 26985 60210 000 000	CW	(AB)
M12	15821	6-7	1400	Wed	892 892 892 000	CW	(AB)
M12	13921	6-7	1420	Wed	892 892 892 000	CW	(AB)
M12	9176	6-7	1800	Wed	257 257 257 1 (R) 1531 150 1531 150 ...	CW	(AB/BvR)
M12	7931	6-7	1820	Wed	257 257 257 1 (R) 1531 150 1531 150 ...	CW	(AB)
M12	6904	6-7	1840	Wed	257 257 257 1 (R) 1531 150 1531 150 ...	CW	(AB/BvR)
M12	9379	6-7	2100	Wed	398 398 398 000	CW	(AB)
M12	7984	7-7	0630	Thu	911 911 911 000	CW	(AB)
M12	9184	7-7	0650	Thu	911 911 911 000	CW	(AB)
M12	13926	7-7	1310	Thu	919 1 (R) 7986 155 37007 83172 43868 ... 72760 79362 47594 000 000 Stopped after 28 groups, restarts at group 21	CW	(AB)
M12	12126	7-7	1330	Thu	919 1 (R) 7986 155 37007 83172 43868 ... 72760 79362 47594 000 000	CW	(AB)
M12	10926	7-7	1350	Thu	919 1 (R) 7986 155 37007 83172 43868 ... 72760 79362 47594 000 000	CW	(AB)
M12	11435	7-7	1800	Thu	938 1 1820 150 27502 74756 05693 92582 87793 ... 64832 60502 76065 77690 10422 000 000	CW	(MPJ)
M12	10598	7-7	1820	Thu	938 1 1820 150 27502 74756 05693 92582 87793 ... 64832 60502 76065 77690 10422 000 000	CW	(MPJ)
M12	9327	7-7	1840	Thu	938 1 1820 150 27502 74756 05693 92582 87793 ... 64832 60502 76065 77690 10422 000 000	CW	(MPJ)
M12	9176	7-7	1900	Thu	257 1 7472 114 69911 77369 49502 53233 44841 ... 06961 23852 78211 64553 63976 000 000	CW	(MPJ)
M12	7931	7-7	1920	Thu	257 1 7472 114 69911 77369 49502 53233 44841 ... 06961 23852 78211 64553 63976 000 000	CW	(MPJ)
M12	8047	7-7	2000	Thu	463 1 3111 69 56236 18321 20579 71117 92256 ... 70635 74270 34974 98918 92443 000 000	CW	(MPJ/HFD)

M12	6802	7-7	2020	Thu	463 1 3111 69 56236 18321 20579 71117 92256 ... 70635 74270 34974 98918 92443 000 000	CW	(HFD)
M12	5788	7-7	2040	Thu	463 1 3111 69 56236 18321 20579 71117 92256 ... 70635 74270 34974 98918 92443 000 000	CW	(HFD)
M12	9217	9-7	0500	Sat	262 262 262 000	CW	(AB/HFD)
M12	10617	9-7	0520	Sat	262 262 262 000	CW	(AB/HFD)
M12	13926	9-7	1310	Sat	919 1 (R) 7986 155 37007 83172 43868 ... 72760 79362 47594 000 000	CW	(AB/MPJ)
M12	12126	9-7	1330	Sat	919 1 (R) 7986 155 37007 83172 43868 ... 72760 79362 47594 000 000	CW	(AB/MPJ)
M12	10926	9-7	1350	Sat	919 1 (R) 7986 155 37007 83172 43868 ... 72760 79362 47594 000 000	CW	(AB/MPJ)
M12	9178	12-7	0820	Tue	816 1 ...	CW	(AB)
M12	10287	12-7	0840	Tue	816 1 ...	CW	(AB)
M12	15821	13-7	1400	Wed	892 892 892 1 8473 75 12800 ...	CW	(AB)
M12	9176	13-7	1800	Wed	257 1 9516 152 25238 17958 48117 79610 90322 ... 49585 88663 15515 51264 61109 000 000	CW	(MPJ)
M12	7931	13-7	1820	Wed	257 1 9516 152 25238 17958 48117 79610 90322 ... 49585 88663 15515 51264 61109 000 000	CW	(MPJ)
M12	6904	13-7	1840	Wed	257 1 9516 152 25238 17958 48117 79610 90322 ... 49585 88663 15515 51264 61109 000 000	CW	(MPJ)
M12	6904	13-7	1840	Wed	257 257 257 1 9516 9516 152 152 25238 17958 48117 ...	CW	(JPL-Sib)
M12	8047	13-7	1900	Wed	463 1 1418 130 57193 34832 01556 46958 81454 ... 72219 51085 18392 80944 17417 000 000	CW	(MPJ)
M12	6802	13-7	1920	Wed	463 1 1418 130 57193 34832 01556 46958 81454 ... 72219 51085 18392 80944 17417 000 000	CW	(MPJ)
M12	5788	13-7	1940	Wed	463 1 1418 130 57193 34832 01556 46958 81454 ... 72219 51085 18392 80944 17417 000 000	CW	(MPJ)
M12	9379	13-7	2100	Wed	398 1	CW	(HFD)
M12	7979	13-7	2120	Wed	398 1	CW	(HFD)
M12	6879	13-7	2140	Wed	398 1	CW	(HFD)
M12	9184	14-7	0650	Thu	911 911 911 000	CW	(AB)
M12	13926	14-7	1310	Thu	919 919 919 000	CW	(AB)
M12	12126	14-7	1330	Thu	919 919 919 000	CW	(AB)
M12	11435	14-7	1800	Thu	938 3223 148 37865 35563 61240 47620 02802 ... 88106 26871 15589 32272 88788 000 000	CW	(MPJ)
M12	10598	14-7	1820	Thu	938 3223 148 37865 35563 61240 47620 02802 ... 88106 26871 15589 32272 88788 000 000	CW	(MPJ)
M12	9327	14-7	1840	Thu	938 3223 148 37865 35563 61240 47620 02802 ... 88106 26871 15589 32272 88788 000 000	CW	(MPJ)
M12	9176	14-7	1900	Thu	257 1 4007 120 98162 23960 99555 68679 91632 ... 25239 50781 54990 01060 23665 000 000	CW	(MPJ)
M12	7931	14-7	1920	Thu	257 1 4007 120 98162 23960 99555 68679 91632 ... 25239 50781 54990 01060 23665 000 000	CW	(MPJ)
M12	6904	14-7	1940	Thu	257 1 4007 120 98162 23960 99555 68679 91632 ... 25239 50781 54990 01060 23665 000 000	CW	(MPJ)
M12	9217	16-7	0500	Sat	262 1 (R) 103 121 56010 11794 42409 ... 44645 49820 68259 000 000	CW	(AB)
M12	10617	16-7	0520	Sat	262 1 (R) 103 121 56010 11794 42409 ... 44645 49820 68259 000 000	CW	(AB)
M12	12217	16-7	0540	Sat	262 1 (R) 103 121 56010 11794 42409 ... 44645 49820 68259 000 000	CW	(AB)

M12	7557	18-7	0450	Mon	850 850 850 000	CW	(AB)
M12	15821	18-7	1400	Mon	892 892 892 000	CW	(MPJ)
M12	9176	18-7	1800	Mon	257 1 1343 148 69237 95478 65835 99850 38598 ... 39540 95146 77276 51676 97228 000 000	CW	(MPJ)
M12	8047	18-7	1810	Mon	463 1	CW	(HFD)
M12	7931	18-7	1820	Mon	257 1 1343 148 69237 95478 65835 99850 38598 ... 39540 95146 77276 51676 97228 000 000	CW	(MPJ)
M12	6802	18-7	1830	Mon	463 1	CW	(HFD)
M12	6904	18-7	1840	Mon	257 1 1343 148 69237 95478 65835 99850 38598 ... 39540 95146 77276 51676 97228 000 000	CW	(MPJ)
M12	5788	18-7	1850	Mon	463 1	CW	(HFD)
M12	15821	20-7	1400	Wed	892 892 892 000	CW	(AB/MPJ)
M12	13921	20-7	1420	Wed	892 892 892 000	CW	(AB/MPJ)
M12	7931	20-7	1820	Wed	257 1 7914 133 48736 30967 68427 82448 95073 ... 38010 31560 18565 93671 87612 000 000	CW	(MPJ)
M12	6904	20-7	1840	Wed	257 1 7914 133 48736 30967 68427 82448 95073 ... 38010 31560 18565 93671 87612 000 000	CW	(MPJ)
M12	8047	20-7	1900	Wed	463 1 8607 139 28145 53012 82822 93916 02101 ... 19494 28681 54967 48097 26796 000 000	CW	(MPJ)
M12	6802	20-7	1920	Wed	463 1 8607 139 28145 53012 82822 93916 02101 ... 19494 28681 54967 48097 26796 000 000	CW	(MPJ)
M12	5788	20-7	1940	Wed	463 1 8607 139 28145 53012 82822 93916 02101 ... 19494 28681 54967 48097 26796 000 000	CW	(MPJ)
M12	7984	21-7	0630	Thu	911 911 911 000	CW	(Edd-HOL)
M12	9184	21-7	0650	Thu	911 911 911 000	CW	(Edd-HOL)
M12	13926	21-7	1310	Thu	919 1 9712 119 13789 49961 61671 06556 97327 ... 68872 51439 23078 01919 81527 000 000	CW	(MPJ)
M12	12126	21-7	1330	Thu	919 1 9712 119 13789 49961 61671 06556 97327 ... 68872 51439 23078 01919 81527 000 000	CW	(MPJ)
M12	10926	21-7	1350	Thu	919 1 9712 119 13789 49961 61671 06556 97327 ... 68872 51439 23078 01919 81527 000 000	CW	(MPJ)
M12	10598	21-7	1820	Thu	938 1 8160 142 73728 74530 00033 18437 79638 ... 35486 91629 06025 74156 61725 000 000	CW	(MPJ)
M12	9327	21-7	1840	Thu	938 1 8160 142 73728 74530 00033 18437 79638 ... 35486 91629 06025 74156 61725 000 000	CW	(MPJ)
M12	9176	21-7	1900	Thu	257 1 9611 124 35847 79461 83155 54423 33301 ... 52589 11367 93269 86018 00259 000 000	CW	(MPJ)
M12	7931	21-7	1920	Thu	257 1 9611 124 35847 79461 83155 54423 33301 ... 52589 11367 93269 86018 00259 000 000	CW	(MPJ)
M12	6904	21-7	1940	Thu	257 1 9611 124 35847 79461 83155 54423 33301 ... 52589 11367 93269 86018 00259 000 000	CW	(MPJ)
M12	19251	22-7	1500	Fri	203 203 203 000	CW	(MPJ)
M12	18051	22-7	1520	Fri	203 203 203 000	CW	(MPJ)
M12	13926	23-7	1310	Sat	919 1 9712 119 13789 49961 61671 ... 000 000	CW	(F5JBR)
M12	12126	23-7	1330	Sat	919 1 9712 (?) 119 (?) 13787 599.1 616... (Faded)	CW	(MPJ)
M12	6857	25-7	0630	Mon	850 850 850 000	CW	(AB)
M12	7557	25-7	0650	Mon	850 850 850 000	CW	(AB)

M12	15821	25-7	1400	Mon	892 1 5890 93 88058 70944 60945 67424 55931 ... 39279 32604 87692 60350 21473 000 000	CW	(MPJ)
M12	13921	25-7	1420	Mon	892 1 5890 93 88058 70944 60945 67424 55931 ... 39279 32604 87692 60350 21473 000 000	CW	(MPJ)
M12	12221	25-7	1440	Mon	892 1 5890 93 88058 70944 60945 67424 55931 ... 39279 32604 87692 60350 21473 000 000	CW	(MPJ)
M12	9176	25-7	1800	Mon	257 1 6170 147 18489 97070 15792 97762 73899 ... 20853 12831 66078 59421 36492 000 000	CW	(MPJ)
M12	7931	25-7	1820	Mon	257 1 6170 147 18489 97070 15792 97762 73899 ... 20853 12831 66078 59421 36492 000 000	CW	(MPJ)
M12	6904	25-7	1840	Mon	257 1 6170 147 18489 97070 15792 97762 73899 ... 20853 12831 66078 59421 36492 000 000	CW	(MPJ)
M12	8053	26-7	0800	Tue	816 1 4922 59 28899 67638 17417 71922 000 000	CW	(Edd-HOL)
M12	9178	26-7	0820	Tue	816 1 4922 59 28899 67638 17417 71922 000 000	CW	(Edd-HOL)
M12	10287	26-7	0840	Tue	816 1 4922 59 28899 67638 17417 71922 000 000	CW	(Edd-HOL)
M12	9176	26-7	2000	Tue	257 1 2650 71 37484 61768 20542 09556 15137 ... 81895 74129 24330 76482 83689 000 000	CW	(MPJ)
M12	6904	26-7	2040	Tue	257 1 2650 71 37484 61768 20542 09556 15137 ... 81895 74129 24330 76482 83689 000 000	CW	(AB)
M12	16332	27-7	0710	Wed	303 303 303 000	CW	(Edd)
M12	18032	27-7	0730	Wed	303 303 303 000	CW	(Edd)
M12	15821	27-7	1400	Wed	892 1 5890 93 88058 70944 60945 ... 87692 60350 21473 000 000	CW	(AB/Edd)
M12	15821	27-7	1400	Wed	892 1 5890 93 88058 79044 60945 67424 55931 ... 39279 32604 87692 60350 21473 000 000	CW	(MPJ)
M12	13921	27-7	1420	Wed	892 1 5890 93 88058 79044 60945 67424 55931 ... 39279 32604 87692 60350 21473 000 000	CW	(MPJ)
M12	13921	27-7	1420	Wed	892 1 5890 93 88058 70944 60945 ... 87692 60350 21473 000 000	CW	(AB/Edd)
M12	12221	27-7	1440	Wed	892 1 5890 93 88058 70944 60945 ... 87692 60350 21473 000 000	CW	(AB/Edd)
M12	9176	27-7	1800	Wed	257 1 4882 132 70721 90706 35021 90682 36072 ... 45513 47383 49086 17215 57824 000 000	CW	(MPJ/BvR)
M12	7931	27-7	1820	Wed	257 1 4882 132 70721 90706 35021 90682 36072 ... 45513 47383 49086 17215 57824 000 000	CW	(MPJ/BvR)
M12	6904	27-7	1840	Wed	257 1 4882 132 70721 90706 35021 90682 36072 ... 45513 47383 49086 17215 57824 000 000	CW	(MPJ/BvR)
M12	8047	27-7	1900	Wed	463 1 9841 148 42147 76800 94128 49640 00950 ... 24123 18525 78451 21218 40482 000 000	CW	(MPJ/BvR)
M12	6802	27-7	1920	Wed	463 1 9841 148 42147 76800 94128 49640 00950 ... 24123 18525 78451 21218 40482 000 000	CW	(MPJ)
M12	5788	27-7	1940	Wed	463 1 9841 148 42147 76800 94128 49640 00950 ... 24123 18525 78451 21218 40482 000 000	CW	(MPJ)
M12	7984	28-7	0630	Thu	911 911 911 000	CW	(Edd)
M12	9184	28-7	0650	Thu	911 911 911 000	CW	(AB/Edd)
M12	13926	28-7	1310	Thu	919 919 919 000	CW	(MPJ/Edd)
M12	12126	28-7	1330	Thu	919 919 919 000	CW	(MPJ/Edd)

M12	11435	28-7	1800	Thu	938 1 7864 147 50058 00574 85268 13259 73627 ... 22418 12260 96479 80181 88323 000 000	CW	(MPJ)
M12	10598	28-7	1820	Thu	938 1 7864 147 50058 00574 85268 13259 73627 ... 22418 12260 96479 80181 88323 000 000	CW	(MPJ)
M12	9327	28-7	1840	Thu	938 1 7864 147 50058 00574 85268 13259 73627 ... 22418 12260 96479 80181 88323 000 000	CW	(MPJ)
M12	9176	28-7	1900	Thu	257 1 1347 112 97710 25353 87293 42500 82007 ... 38501 39800 71494 37944 12199 000 000	CW	(MPJ)
M12	8047	28-7	2000	Thu	463 1 (R) 2620 66 55390 66859 37035 ... 77510 87039 94508 000 000	CW	(AB)
M12	6802	28-7	2020	Thu	463 1 (R) 2620 66 55390 66859 37035 ... 77510 87039 94508 000 000	CW	(AB)
M12	5788	28-7	2040	Thu	463 1 (R) 2620 66 55390 66859 37035 ... 77510 87039 94508 000 000	CW	(AB)
M12	19251	29-7	1500	Fri	203 203 203 000	CW	(MPJ)
M12	18051	29-7	1520	Fri	203 203 203 000	CW	(MPJ)
M12	9217	30-7	0500	Sat	262 1 (R) 4825 139 34143 10414 98862 ... 42389 87940 85541 000 000	CW	(AB/Edd- HOL)
M12	10617	30-7	0520	Sat	262 1 (R) 4825 139 34143 10414 98862 ... 42389 87940 85541 000 000	CW	(AB/Edd- HOL)
M12	12217	30-7	0540	Sat	262 1 (R) 4825 139 34143 10414 98862 ... 42389 87940 85541 000 000	CW	(AB/Edd- HOL)
M12	13926	30-7	1310	Sat	919 919 919 000 . No others audible. (30Jul16) (MPJ)	CW	(Edd-HOL)
M12	12126	30-7	1330	Sat	919 919 919 000	CW	(MPJ/Edd- HOL)
M14	7485	1-7	1700	Fri	382 382 382 00000	CW	(AB/MPJ)
M14	6891	1-7	1800	Fri	382 382 382 00000	CW	(AB/MPJ)
M14	5430	2-7	0800	Sat	171 (R) 427 427 68 68 37612 80644 32250 ... 26061 46671 20801 427 427 68 68 00000	CW	(AB)
M14	5560	2-7	0900	Sat	171 (R) 427 427 68 68 37612 80644 32250 ... 26061 46671 20801 427 427 68 68 00000	CW	(AB)
M14	5240	3-7	2300	Sun	376 (R) 427 68 37612 80644 32250 ... 26061 46671 20801 427 427 68 68 00000	CW	(AB)
M14	5824	4-7	0000	Mon	376 (R) 427 68 37612 80644 32250 ... 26061 46671 20801 427 427 68 68 00000	CW	(AB)
M14	5825	5-7	1600	Tue	361 719 89 22600 357_9 50436 98365 90369 ... 50061 03604 11647 56245 67574 719 89 00000	CW	(AB/MPJ)
M14	7590	10-7	0600	Sun	382 382 382 00000	CW	(AB)
M14	8162	10-7	0700	Sun	382 382 382 00000	CW	(AB)
M14	5241	10-7	2300	Sun	376 ...	CW	(AB)
M14	6856	12-7	1820	Tue	163 124 89 6_345 90347 89346 12904 89340 ... 56784 23674 34895 89456 89340 124 89 00000	MCW	(AB)
M14	5938	13-7	1920	Wed	417 124 89 67345 90347 89346 12904 89340 ... 56784 23674 34895 89456 89340 124 89 00000	MCW	(MPJ)
M14	7485	15-7	1700	Fri	382 (R) 190 190 50 50 12345 43435 67674 ... 80989 56890 -56850- 34087 190 190 50 50 00000 Errors	CW	(AB)
M14	6891	15-7	1800	Fri	382 382 382 00000	CW	(AB/MPJ)
M14	5825	19-7	1600	Tue	361 ...	CW	(AB/MPJ)
M14	5413	20-7	1600	Wed	361 22 719 89 22600 35759 50436 98365 90369...	CW	(AB/MPJ)
M14	7590	24-7	0600	Sun	382 382 382 00000	CW	(HFD)
M14	8162	24-7	0700	Sun	382 382 382 00000	CW	(HFD)

M14	6856	26-7	1820	Tue	163 230 65 12345 43435 67674 83838 98765 ... 76543 45665 77721 03264 78967 230 65 00000	CW	(AB/MPJ)
M14	5938	27-7	1920	Wed	417 230 65 12345 43435 67674 83838 98765 ... 76543 45665 77721 03264 78967 230 65 00000	MCW	(MPJ)
M21	3691.5	18-7	1430	Mon	=991730??0????? =991731??0?????	CW	(JPL-Sib)
M22	6607	13-7	0126	Wed	4XZ sending mixed groups and cut #'s	CW	(W2DSX)
M23	7438	6-7	1307	Wed	150 (R)	CW	(Danix)
M23	5921	7-7	2029	Thu	579 (R)	CW	(Danix)
M23	5921	8-7	0559	Fri	579 (R12)	CW	(AB)
M23	5921	8-7	0629	Fri	579 (R12)	CW	(AB)
M23	5921	8-7	1559	Fri	579 (R12)	CW	(AB/MPJ/B R)
M23	5921	8-7	1629	Fri	579 (R12)	CW	(AB/MPJ/B R)
M23	5921	8-7	2029	Fri	579 (R12)	CW	(AB/BR)
M23	5921	9-7	0559	Sat	579 (R12)	CW	(AB)
M23	5921	9-7	0629	Sat	579 (R12)	CW	(AB)
M23	5921	9-7	1559	Sat	579 (R12)	CW	(AB/MPJ/B R)
M23	5921	9-7	1629	Sat	579 (R12)	CW	(AB/MPJ/B R)
M23	5921	9-7	2029	Sat	579 (R12)	CW	(AB/BR)
M23	5921	9-7	2129	Sat	579 (R12)	CW	(AB)
M23	5921	10-7	0559	Sun	579 (R12)	CW	(AB)
M23	5921	10-7	0629	Sun	579 (R12)	CW	(AB)
M23	5921	10-7	1559	Sun	579 (R12)	CW	(AB/BR)
M23	5921	10-7	1629	Sun	579 (R12)	CW	(AB/BR)
M23	5921	10-7	2029	Sun	579 (R12)	CW	(AB/BR)
M23	5921	10-7	2129	Sun	579 (R12)	CW	(AB)
M23	5921	11-7	0559	Mon	579 (R12)	CW	(AB)
M23	5921	11-7	1559	Mon	579 (R12)	CW	(AB)
M23	5921	11-7	1629	Mon	579 (R12)	CW	(AB)
M23	5921	11-7	2029	Mon	579 (R12)	CW	(AB/BR)
M23	5921	11-7	2129	Mon	579 (R12)	CW	(AB/BR)
M23	5921	12-7	0559	Tue	579 (R12)	CW	(AB)
M23	5921	12-7	0629	Tue	579 (R12)	CW	(AB)
M23	5921	12-7	1559	Tue	579 (R12)	CW	(AB/BR)
M23	5921	12-7	1629	Tue	579 (R12)	CW	(AB/MPJ/B R)
M23	5921	12-7	2029	Tue	579 (R12)	CW	(AB/BR)
M23	5921	12-7	2129	Tue	579 (R12)	CW	(AB/BR)
M23	5921	13-7	0559	Wed	579 (R12)	CW	(AB)
M23	5921	13-7	0629	Wed	579 (R12)	CW	(AB)
M23	5921	13-7	1629	Wed	246 (R15)	CW	(AB/BR/MP J)
M23	5921	13-7	2100	Wed	579 (R12)	CW	(BR)
M23	5921	14-7	0629	Thu	246 (R15)	CW	(AB)
M23	5921	14-7	1629	Thu	246 (R15)	CW	(AB/MPJ)
M23	6890	30-7	1311	Sat	456 (R)	CW	(Edd- HOL/qsr711)
M23	6890	30-7	1328	Sat	456 (R15)	CW	(Edd- HOL/qsr711)
M23	6890	30-7	1328	Sat	789 (R12)	CW	(qsr711)
M23	6890	30-7	1358	Sat	789 (R12)	CW	(Edd- HOL/qsr711)
M23	6890	31-7	1258	Sun	456 (R15)	CW	(AB)
M23	6890	31-7	1328	Sun	456 (R15)	CW	(AB)
M23	6890	31-7	1358	Sun	789 (R12)	CW	(AB)
M23	6890	31-7	1428	Sun	789 (R12)	CW	(AB)
M32	5268	13-7	1700	Wed	XXX RDL RDL 00782 59193 PLE\OE- WOJ 2916 8546 K	CW	(JPL-Sib)

M32	6969	13-7	1831	Wed	i.p. 87179 87179 K. IK7R (x3) DE M8TK (x2) K. IK7R DE M8TK QSA NO QSY 86580 86580 86580 K	CW	(JPL-Sib)
M32	5111	18-7	1324	Mon	VVV BYY. 208 98 18 1615 208 = ZYF 033 = MMMMM XUBIA LG\AFZ UWBXM LG\AFZ UWBXM LG\AFZ UWBXM EXDYS \UQS\HQ ...	CW	(JPL-Sib)
M32a	10425	20-7	1103	Wed	QSA 4 ZNN ZNN VA RGH2. DE RAL2 K RMW2 DE RAL2 K QSA 4 ZNN VA RBL66 DE RAL2 QSA ? K	CW	(JPL-Sib)
M32a	3876	22-7	1812	Fri	627 17 22 1805 627 = FM RHI86 FOR RJD52 RJD88 RIW = 22181 99448 10477 41/97 93204 10032 4/// / 5/// 22200 1/// 3/// 5/// 22012 = AR RHI86	CW	(F5JBR)
M32a	5263.5	28-7	0829	Thu	RIW RIW RIW K RMP QTC 302 14 28 1110 302 = 11111 0 12391 77912 10465 73534 ...	CW	(AB)
M32a	5263.5	28-7	0835	Thu	RIW RIW RIW DE RMP RMP QTC 202 14 28 1110 = 11111 00060 12391 79912 10465 73534 ...	CW	(AB)
M32a	5263.5	28-7	0926	Thu	RMED RMED RMED DE RMP RMP QSA 1 K. RMP R 842 K	CW	(AB)
M32a	5263.5	28-7	0930	Thu	REO REO REO DE RMP RMP QTC 982 12 28 1135 982 = 11111 16200 55891 40885 ...	CW	(AB)
M32a	5263.5	28-7	0940	Thu	REO REO REO DE RMP RMP QTC 929 15 28 1205 929 =	CW	(AB)
M32a	5263.5	28-7	1050	Thu	REO REO REO DE RMP RMP 211 16 28 1252 211 =	CW	(AB)
M32a	5263.5	28-7	1338	Thu	VVV RDL64 RLD64 RLD64 DE RMP RMP QSA? K	CW	(AB)
M32a	5263.5	28-7	1400	Thu	RKI90 RKI90 RKI90 DE RMP RMP QSA2 QRV K	CW	(AB)
M32a	7965	30-7	1150	Sat	REO REO REO DE RMP RMP QTC 541 12 30 1935 541 = 22222 93659 65575 ... AR	CW	(BvR)
M32a	7965	31-7	1113	Sun	REO REO DE RMP RMP QTC 811 12 31 1355 811 = 11111 77816 56965 64586 86494 ... AR	CW	(BvR)
M32a	7965	31-7	1113	Sun	RHI99 RHI99 DE RMP RMP QSA3	CW	(BvR)
M32a	7965	31-7	1153	Sun	RLD63 RLD63 RLD63 DE RMP RMP QSA2 K	CW	(BvR)
M32b	8816	12-7	0615	Tue	RJF94 RJC38 DE 30770 QTH 5143 4011 QTR 0610 QBG 5800 K.	CW	(WP3)
M32b	8816	25-7	0738	Mon	Russian Naval Air Transport: rjf94 rjc38 de 09479 qth 6456 3429 qtr 0733 qbg 7000 k	CW	(WP3)
M32b	8816	25-7	1010	Mon	Russian Naval Air Transport: rjf94 rjc38 de 42055 qay XLPB 1005 qbg 10000 qbd 10000 k	CW	(WP3)
M32b	8816	28-7	1421	Thu	rjf94 rjc38 de 09479 qto 1404 qrd XLMV XUMO qre 1715 qbd 16000 k	CW	(WP3)
M42	14440	9-7	1330	Sat	Russian diplo/intel using various Ser-dolik modes.	Various modes	(Danix)
M42	5921	10-7	2017	Sun	LKDW clg PRAT	CW	(MPJ)
M42	16046	13-7	0740	Wed	Russian Diplo/Intel	CROWD-36	(AAI)
M42	6950	19-7	1515	Tue	VVV ROP ROP ROP 2/102 11100 10020 78945 19243 01019 = 37185 29023 04742 81641 60899 72224 35199 ...	CW	(JPL-Sib)
M42b	5897	2-7	0628	Sat	Russian diplo/intel. PR60 de 7ZGR. Message in FSK, opchat in CW: QRU NIL SK (Qsx 6776 kHz)	FSK 50/500	(F5JBR)
M42b	6776	2-7	0628	Sat	Russian diplo/intel. PR60 de 7ZGR. Message in FSK, opchat in CW: QRU NIL SK (Qsx 5897 kHz)	FSK 50/500	(F5JBR)

M42b	5897	3-7	0628	Sun	Russian diplo/intel. PR60 de 7ZGR. Message in FSK, opchat in CW: QRU NIL SK (Qsx 6776 kHz)	FSK 50/500	(F5JBR)
M42b	6776	3-7	0628	Sun	Russian diplo/intel. PR60 de 7ZGR. Message in FSK, opchat in CW: QRU NIL SK (Qsx 5897 kHz)	FSK 50/500	(F5JBR)
M42b	3565	3-7	0731	Sun	Russian diplo/intel. RBV2 wkg RYF2. Message in FSK, opchat in CW: ZOR	FSK 50/500	(F5JBR)
M42b	14362	3-7	0800	Sun	Russian diplo/intel. OWSD wkg 1SS. Message in FSK, opchat in CW: QRU NIL SK (Qsx 14584 kHz)	FSK 50/500	(F5JBR)
M42b	14584	3-7	0800	Sun	Russian diplo/intel. OWSD wkg 1SS. Message in FSK, opchat in CW: QRU NIL SK (Qsx 14362 kHz)	FSK 50/500	(F5JBR)
M42b	5421	22-7	0455	Fri	Russian diplo/intel. UOZG wkg WDAK. Message in FSK, opchat in CW: QRU NIL SK (Qsx 5903 kHz)	FSK 50/500	(F5JBR)
M42b	5903	22-7	0455	Fri	Russian diplo/intel. UOZG wkg WDAK. Message in FSK, opchat in CW: QRU NIL SK (Qsx 5421 kHz)	FSK 50/500	(F5JBR)
M42c	16329	2-7	1200	Sat	Russian intel/diplo. J5761 00000+++++++162	FSK 200/500	(AB/MPJ/H FD)
M42c	14641	2-7	1210	Sat	Russian intel/diplo. J5761 00000+++++++162	FSK 200/500	(AB/MPJ/H FD)
M42c	12187	2-7	1220	Sat	Russian intel/diplo. J5761 00000+++++++162	FSK 200/500	(AB/MPJ/H FD)
M42c	16147	2-7	1810	Sat	Russian intel/diplo. J5761 00000+++++++162	FSK 200/500	(AB/BvR)
M42c	14389	2-7	1820	Sat	Russian intel/diplo. J5761 00000+++++++162	FSK 200/500	(AB/BvR)
M42c	12214	2-7	1830	Sat	Russian intel/diplo. J5761 00000+++++++162	FSK 200/500	(AB/BvR)
M42c	14878	4-7	0030	Mon	Russian diplo/intel. Header: 11177 00117 37954 04031 01239	FSK 200/500	(MCO)
M42c	14829	5-7	1840	Tue	Russian intel/diplo. J5761 00000+++++++162	FSK 200/500	(AB)
M42c	12214	5-7	1850	Tue	Russian intel/diplo. J5761 00000+++++++162	FSK 200/500	(AB)
M42c	10932	5-7	1900	Tue	Russian intel/diplo. J5761 00000+++++++162	FSK 200/500	(AB)
M42c	16329	9-7	1200	Sat	Russian intel/diplo. J5761 00000+++++++162	FSK 200/500	(AB)
M42c	14641	9-7	1210	Sat	Russian intel/diplo. J5761 00000+++++++162	FSK 200/500	(AB/MPJ)
M42c	12187	9-7	1220	Sat	Russian intel/diplo. J5761 00000+++++++162	FSK 200/500	(AB/MPJ)
M42c	16147	9-7	1810	Sat	Russian intel/diplo. J5761 00000+++++++162	FSK 200/500	(AB)
M42c	14389	9-7	1820	Sat	Russian intel/diplo. J5761 00000+++++++162	FSK 200/500	(AB)
M42c	12214	9-7	1830	Sat	Russian intel/diplo. J5761 00000+++++++162	FSK 200/500	(AB)
M42c	16329	16-7	1200	Sat	Russian intel/diplo. J5761 00000+++++++162	FSK 200/500	(AB/Danix)
M42c	14641	16-7	1210	Sat	Russian intel/diplo. J5761 00000+++++++162	FSK 200/500	(AB/Danix)
M42c	12187	16-7	1220	Sat	Russian intel/diplo. J5761 00000+++++++162	FSK 200/500	(AB/Danix)
M42c	16147	16-7	1810	Sat	Russian intel/diplo. J5761 00000+++++++162	FSK 200/500	(AB/Danix/HFD)
M42c	14389	16-7	1820	Sat	Russian intel/diplo. J5761 00000+++++++162	FSK 200/500	(AB/Danix/HFD)
M42c	12214	16-7	1830	Sat	Russian intel/diplo. J5761 00000+++++++162	FSK 200/500	(AB/Danix/HFD)
M42c	14878	18-7	0025	Mon	Russian diplo/intel. 11177 00117 73158 18033 01169	FSK 200/500	(Danix)

M42c	12185	18-7	0035	Mon	Russian diplo/intel. 11177 00117 73158 18033 01169	FSK 200/500	(Danix)
M42c	16329	23-7	1200	Sat	Russian intel/diplo.)5761 00000+++++++162	FSK 200/500	(AB/MPJ/D anix)
M42c	14641	23-7	1210	Sat	Russian intel/diplo.)5761 00000+++++++162	FSK 200/500	(AB/MPJ/D anix)
M42c	12187	23-7	1220	Sat	Russian intel/diplo.)5761 00000+++++++162	FSK 200/500	(AB/MPJ/D anix)
M42c	16147	23-7	1810	Sat	Russian intel/diplo.)5761 00000+++++++162	FSK 200/500	(AB/Danix)
M42c	14389	23-7	1820	Sat	Russian intel/diplo.)5761 00000+++++++162	FSK 200/500	(AB/Danix)
M42c	12214	23-7	1830	Sat	Russian intel/diplo.)5761 00000+++++++162	FSK 200/500	(AB/Danix)
M42c	18562	29-7	2230	Fri	Russian diplo/intel. Link ID 00116, Date 29th, Serial #35, Groups 169	FSK 200/500	(Danix)
M42c	16218	29-7	2240	Fri	Russian diplo/intel. Link ID 00116, Date 29th, Serial #35, Groups 169	FSK 200/500	(Danix)
M42c	16329	30-7	1200	Sat	Russian intel/diplo.)5761 00000+++++++162	FSK 200/500	(AB/Danix)
M42c	14641	30-7	1210	Sat	Russian intel/diplo.)5761 00000+++++++162	FSK 200/500	(AB/MPJ/D anix)
M42c	12187	30-7	1220	Sat	Russian intel/diplo.)5761 00000+++++++162	FSK 200/500	(AB/MPJ/D anix)
M42c	16147	30-7	1810	Sat	Russian intel/diplo.)5761 00000+++++++162	FSK 200/500	(AB/Danix)
M42c	14389	30-7	1820	Sat	Russian intel/diplo.)5761 00000+++++++162	FSK 200/500	(AB/Danix)
M42c	12214	30-7	1830	Sat	Russian intel/diplo.)5761 00000+++++++162	FSK 200/500	(AB/Danix)
M42d	15964	2-7	1100	Sat	Russian diplo/intel. Msg 137 on link 36882	FSK 200/1000	(AB)
M42d	13549	2-7	1110	Sat	Russian diplo/intel. Msg 137 on link 36882	FSK 200/1000	(AB)
M42d	11524	2-7	1120	Sat	Russian diplo/intel. Msg 137 on link 36882	FSK 200/1000	(AB)
M42d	17436	2-7	2100	Sat	Russian diplo/intel. Null msg on link 32829	FSK 200/1000	(AB)
M42d	15789	2-7	2110	Sat	Russian diplo/intel. Null msg on link 32829	FSK 200/1000	(AB)
M42d	13473	2-7	2120	Sat	Russian diplo/intel. Null msg on link 32829	FSK 200/1000	(AB)
M42d	17544	3-7	1530	Sun	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB)
M42d	15626	3-7	1540	Sun	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB)
M42d	13496	3-7	1550	Sun	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB)
M42d	17438	5-7	1400	Tue	Russian diplo/intel. Null msg on link 32799	FSK 200/1000	(AB)
M42d	15849	5-7	1410	Tue	Russian diplo/intel. Null msg on link 32799	FSK 200/1000	(AB/MPJ)
M42d	13376	5-7	1420	Tue	Russian diplo/intel. Null msg on link 32799	FSK 200/1000	(AB/MPJ)
M42d	15844	6-7	0800	Wed	Russian diplo/intel. Null msg on link 45075	FSK 200/1000	(AB)
M42d	13396	6-7	0810	Wed	Russian diplo/intel. Null msg on link 45075	FSK 200/1000	(AB)
M42d	11089	6-7	0820	Wed	Russian diplo/intel. Null msg on link 45075	FSK 200/1000	(AB)
M42d	16031	6-7	2200	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB)
M42d	14369	6-7	2210	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB)
M42d	12193	6-7	2220	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB)

M42d	15707	7-7	0610	Thu	Russian diplo/intel.	FSK 200/1000	(AB)
M42d	13446	7-7	0620	Thu	Russian diplo/intel.	FSK 200/1000	(AB)
M42d	13387	7-7	1330	Thu	Russian diplo/intel. Msg 107 on link 49237	FSK 200/1000	(AB)
M42d	11023	7-7	1340	Thu	Russian diplo/intel. Msg 107 on link 49237	FSK 200/1000	(AB)
M42d	9166	7-7	1350	Thu	Russian diplo/intel. Msg 107 on link 49237	FSK 200/1000	(AB)
M42d	13468	9-7	0800	Sat	Russian diplo/intel. Link ID 45115, Date 8th, Serial #35	FSK 200/1000	(Danix)
M42d	11634	9-7	0810	Sat	Russian diplo/intel. Link ID 45115, Date 8th, Serial #35	FSK 200/1000	(Danix)
M42d	9486	9-7	0820	Sat	Russian diplo/intel. Link ID 45115, Date 8th, Serial #35	FSK 200/1000	(Danix)
M42d	16089	9-7	0900	Sat	Russian diplo/intel. Msg 212 on link 45057	FSK 200/1000	(AB)
M42d	14384	9-7	0910	Sat	Russian diplo/intel. Msg 212 on link 45057	FSK 200/1000	(AB)
M42d	12173	9-7	0920	Sat	Russian diplo/intel. Msg 212 on link 45057	FSK 200/1000	(AB)
M42d	15964	9-7	1100	Sat	Russian diplo/intel. Msg 140 on link 36882	FSK 200/1000	(AB/MPJ)
M42d	13549	9-7	1110	Sat	Russian diplo/intel. Msg 140 on link 36882	FSK 200/1000	(AB)
M42d	11524	9-7	1120	Sat	Russian diplo/intel. Msg 140 on link 36882	FSK 200/1000	(AB)
M42d	17436	9-7	2100	Sat	Russian diplo/intel. Msg 062 on link 32821	FSK 200/1000	(AB)
M42d	15789	9-7	2110	Sat	Russian diplo/intel. Msg 062 on link 32821	FSK 200/1000	(AB)
M42d	13473	9-7	2120	Sat	Russian diplo/intel. Msg 062 on link 32821	FSK 200/1000	(AB)
M42d	13468	10-7	0800	Sun	Russian diplo/intel. Msg 087 on link 45115	FSK 200/1000	(AB)
M42d	11634	10-7	0810	Sun	Russian diplo/intel. Msg 087 on link 45115	FSK 200/1000	(AB)
M42d	9486	10-7	0820	Sun	Russian diplo/intel. Msg 087 on link 45115	FSK 200/1000	(AB)
M42d	16089	10-7	0900	Sun	Russian diplo/intel. Msg 212 on link 45057	FSK 200/1000	(AB)
M42d	14384	10-7	0910	Sun	Russian diplo/intel. Msg 212 on link 45057	FSK 200/1000	(AB)
M42d	12173	10-7	0920	Sun	Russian diplo/intel. Msg 212 on link 45057	FSK 200/1000	(AB/BvR)
M42d	15964	10-7	1100	Sun	Russian diplo/intel. Msg 140 on link 36882	FSK 200/1000	(AB)
M42d	13549	10-7	1110	Sun	Russian diplo/intel. Msg 140 on link 36882	FSK 200/1000	(AB)
M42d	11524	10-7	1120	Sun	Russian diplo/intel. Msg 140 on link 36882	FSK 200/1000	(AB/BvR)
M42d	17544	10-7	1530	Sun	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB)
M42d	15626	10-7	1540	Sun	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB)
M42d	13496	10-7	1550	Sun	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB)
M42d	17436	10-7	2100	Sun	Russian diplo/intel. Msg 062 on link 32821	FSK 200/1000	(AB)
M42d	15789	10-7	2110	Sun	Russian diplo/intel. Msg 062 on link 32821	FSK 200/1000	(AB)
M42d	13473	10-7	2120	Sun	Russian diplo/intel. Msg 062 on link 32821	FSK 200/1000	(AB)
M42d	17438	12-7	1400	Tue	Russian diplo/intel. Null msg on link 32799	FSK 200/1000	(AB)
M42d	15849	12-7	1410	Tue	Russian diplo/intel. Null msg on link 32799	FSK 200/1000	(AB)

M42d	13376	12-7	1420	Tue	Russian diplo/intel. Null msg on link 32799	FSK 200/1000	(AB)
M42d	14456	12-7	2300	Tue	Russian diplo/intel. Link ID 40988, Date 8th, Serial #70	FSK 200/1000	(Danix)
M42d	12188	12-7	2310	Tue	Russian diplo/intel. Link ID 40988, Date 8th, Serial #70	FSK 200/1000	(Danix)
M42d	11084	12-7	2320	Tue	Russian diplo/intel. Link ID 40988, Date 8th, Serial #70	FSK 200/1000	(Danix)
M42d	15844	13-7	0800	Wed	Russian diplo/intel. Null msg on link 45075	FSK 200/1000	(AB)
M42d	13396	13-7	0810	Wed	Russian diplo/intel. Null msg on link 45075	FSK 200/1000	(AB)
M42d	11089	13-7	0820	Wed	Russian diplo/intel. Null msg on link 45075	FSK 200/1000	(AB)
M42d	14948	13-7	0915	Wed	Russian diplo/intel. Null msg on link 20492	FSK 200/1000	(AB)
M42d	12176	13-7	0925	Wed	Russian diplo/intel. Null msg on link 20492	FSK 200/1000	(AB)
M42d	10177	13-7	0935	Wed	Russian diplo/intel. Null msg on link 20492	FSK 200/1000	(AB)
M42d	16031	13-7	2200	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB)
M42d	14369	13-7	2210	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB)
M42d	12193	13-7	2220	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB)
M42d	15707	14-7	0610	Thu	Russian diplo/intel.	FSK 200/1000	(AB)
M42d	13446	14-7	0620	Thu	Russian diplo/intel.	FSK 200/1000	(AB)
M42d	15795	14-7	0800	Thu	Russian diplo/intel. Msg 005 on link 16405	FSK 200/1000	(AB)
M42d	13428	14-7	0810	Thu	Russian diplo/intel. Msg 005 on link 16405	FSK 200/1000	(AB)
M42d	11060	14-7	0820	Thu	Russian diplo/intel. Msg 005 on link 16405	FSK 200/1000	(AB)
M42d	13387	14-7	1330	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB)
M42d	11023	14-7	1340	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB)
M42d	9166	14-7	1350	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB)
M42d	11122	14-7	1830	Thu	Russian diplo/intel. Link ID 00000, Date 13th, Serial #2	FSK 200/1000	(Danix)
M42d	9067	14-7	1840	Thu	Russian diplo/intel. Link ID 00000, Date 13th, Serial #2	FSK 200/1000	(Danix)
M42d	6791	14-7	1850	Thu	Russian diplo/intel. Link ID 00000, Date 13th, Serial #2	FSK 200/1000	(Danix)
M42d	16291	15-7	0600	Fri	Russian diplo/intel. Msg 175 on link 40988	FSK 200/1000	(AB)
M42d	14519	15-7	0610	Fri	Russian diplo/intel. Msg 175 on link 40988	FSK 200/1000	(AB)
M42d	12186	15-7	0620	Fri	Russian diplo/intel. Msg 175 on link 40988	FSK 200/1000	(AB)
M42d	15964	16-7	1100	Sat	Russian diplo/intel. Msg 142 on link 36882	FSK 200/1000	(AB/Danix)
M42d	13549	16-7	1110	Sat	Russian diplo/intel. Msg 142 on link 36882	FSK 200/1000	(AB/Danix)
M42d	11524	16-7	1120	Sat	Russian diplo/intel. Msg 142 on link 36882	FSK 200/1000	(AB/Danix)
M42d	11122	16-7	1830	Sat	Russian diplo/intel. Link ID 00000, Date 15th, Serial #3, Groups 52	FSK 200/1000	(Danix)
M42d	9067	16-7	1840	Sat	Russian diplo/intel. Link ID 00000, Date 15th, Serial #3, Groups 52	FSK 200/1000	(Danix)
M42d	6791	16-7	1850	Sat	Russian diplo/intel. Link ID 00000, Date 15th, Serial #3, Groups 52	FSK 200/1000	(Danix)
M42d	17436	16-7	2100	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(AB/Danix)

M42d	15789	16-7	2110	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(AB/Danix)
M42d	13473	16-7	2120	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(AB/Danix)
M42d	15964	17-7	1100	Sun	Russian diplo/intel. Msg 142 on link 36882	FSK 200/1000	(AB/Danix)
M42d	13549	17-7	1110	Sun	Russian diplo/intel. Msg 142 on link 36882	FSK 200/1000	(AB/Danix)
M42d	11524	17-7	1120	Sun	Russian diplo/intel. Msg 142 on link 36882	FSK 200/1000	(AB/Danix)
M42d	17544	17-7	1530	Sun	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix/ MPJ)
M42d	15626	17-7	1540	Sun	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix/ MPJ)
M42d	13496	17-7	1550	Sun	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix/ MPJ)
M42d	11049	18-7	0400	Mon	Russian diplo/intel. Null msg on link 45079	FSK 200/1000	(AB/Danix)
M42d	9126	18-7	0410	Mon	Russian diplo/intel. Null msg on link 45079	FSK 200/1000	(AB/Danix)
M42d	8137	18-7	0420	Mon	Russian diplo/intel. Null msg on link 45079	FSK 200/1000	(AB/Danix)
M42d	14456	19-7	2300	Tue	Russian diplo/intel. Null msg on link 40988	FSK 200/1000	(AB/Danix)
M42d	17479	19-7	2300	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(Danix)
M42d	12188	19-7	2310	Tue	Russian diplo/intel. Null msg on link 40988	FSK 200/1000	(AB/Danix)
M42d	15931	19-7	2310	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(Danix)
M42d	11084	19-7	2320	Tue	Russian diplo/intel. Null msg on link 40988	FSK 200/1000	(AB/Danix)
M42d	13567	19-7	2320	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(Danix)
M42d	15844	20-7	0800	Wed	Russian diplo/intel. Null msg on link 45075	FSK 200/1000	(AB/Danix)
M42d	13396	20-7	0810	Wed	Russian diplo/intel. Null msg on link 45075	FSK 200/1000	(AB/Danix)
M42d	11089	20-7	0820	Wed	Russian diplo/intel. Null msg on link 45075	FSK 200/1000	(AB/Danix)
M42d	16244	20-7	1230	Wed	Russian diplo/intel. Null msg on link 53277	FSK 200/1000	(AB/MPJ/D anix)
M42d	14649	20-7	1240	Wed	Russian diplo/intel. Null msg on link 53277	FSK 200/1000	(AB/MPJ/D anix)
M42d	12206	20-7	1250	Wed	Russian diplo/intel. Null msg on link 53277	FSK 200/1000	(AB/MPJ/D anix)
M42d	10687	20-7	1730	Wed	Russian diplo/intel. Link ID 00000, Date 19th, Serial #38	FSK 200/1000	(Danix)
M42d	7992	20-7	1740	Wed	Russian diplo/intel. Link ID 00000, Date 19th, Serial #38	FSK 200/1000	(Danix)
M42d	5913	20-7	1750	Wed	Russian diplo/intel. Link ID 00000, Date 19th, Serial #38	FSK 200/1000	(Danix)
M42d	9944	20-7	1800	Wed	Russian diplo/intel. Link ID 00000, Date 19th, Serial #5	FSK 200/1000	(Danix)
M42d	7482	20-7	1810	Wed	Russian diplo/intel. Link ID 00000, Date 19th, Serial #5	FSK 200/1000	(Danix)
M42d	5460	20-7	1820	Wed	Russian diplo/intel. Link ID 00000, Date 19th, Serial #5	FSK 200/1000	(Danix)
M42d	11122	20-7	1830	Wed	Russian diplo/intel. Link ID 00000, Date 19th, Serial #5	FSK 200/1000	(Danix)
M42d	9067	20-7	1840	Wed	Russian diplo/intel. Link ID 00000, Date 19th, Serial #5	FSK 200/1000	(Danix)
M42d	6791	20-7	1850	Wed	Russian diplo/intel. Link ID 00000, Date 19th, Serial #5	FSK 200/1000	(Danix)
M42d	16031	20-7	2200	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB/Danix)

M42d	14369	20-7	2210	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB/Danix)
M42d	12193	20-7	2220	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB/Danix)
M42d	13387	21-7	1330	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB/Danix)
M42d	11023	21-7	1340	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB/Danix)
M42d	9166	21-7	1350	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB/Danix)
M42d	18562	22-7	2230	Fri	Link ID 00116, Date 22nd, Serial #34, Groups 210	FSK 200/1000	(Danix)
M42d	16218	22-7	2240	Fri	Link ID 00116, Date 22nd, Serial #34, Groups 210	FSK 200/1000	(Danix)
M42d	18562	22-7	2330	Fri	Link ID 00116, Date 22nd, Serial #34, Groups 210	FSK 200/1000	(Danix)
M42d	16218	22-7	2340	Fri	Link ID 00116, Date 22nd, Serial #34, Groups 210	FSK 200/1000	(Danix)
M42d	13468	23-7	0800	Sat	Russian diplo/intel. Msg 090 on link 45115	FSK 200/1000	(AB/Danix)
M42d	11634	23-7	0810	Sat	Russian diplo/intel. Msg 090 on link 45115	FSK 200/1000	(AB/Danix)
M42d	9486	23-7	0820	Sat	Russian diplo/intel. Msg 090 on link 45115	FSK 200/1000	(AB/Danix)
M42d	16089	23-7	0900	Sat	Russian diplo/intel. Msg 212 on link 45057	FSK 200/1000	(AB/Danix)
M42d	14384	23-7	0910	Sat	Russian diplo/intel. Msg 212 on link 45057	FSK 200/1000	(AB/Danix)
M42d	12173	23-7	0920	Sat	Russian diplo/intel. Msg 212 on link 45057	FSK 200/1000	(AB/Danix)
M42d	15964	23-7	1100	Sat	Russian diplo/intel. Msg 145 on link 36882	FSK 200/1000	(AB/MPJ/D anix)
M42d	13549	23-7	1110	Sat	Russian diplo/intel. Msg 145 on link 36882	FSK 200/1000	(AB/MPJ/D anix)
M42d	11524	23-7	1120	Sat	Russian diplo/intel. Msg 145 on link 36882	FSK 200/1000	(AB/MPJ/D anix)
M42d	17436	23-7	2100	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(AB/Danix)
M42d	15789	23-7	2110	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(AB/Danix)
M42d	13473	23-7	2120	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(AB/Danix)
M42d	13468	24-7	0800	Sun	Russian diplo/intel. Msg 090 on link 45115	FSK 200/1000	(AB/Danix)
M42d	11634	24-7	0810	Sun	Russian diplo/intel. Msg 090 on link 45115	FSK 200/1000	(AB/Danix)
M42d	9486	24-7	0820	Sun	Russian diplo/intel. Msg 090 on link 45115	FSK 200/1000	(AB/Danix)
M42d	16089	24-7	0900	Sun	Russian diplo/intel. Msg 212 on link 45057	FSK 200/1000	(AB/Danix)
M42d	14384	24-7	0910	Sun	Russian diplo/intel. Msg 212 on link 45057	FSK 200/1000	(AB/Danix)
M42d	12173	24-7	0920	Sun	Russian diplo/intel. Msg 212 on link 45057	FSK 200/1000	(AB/Danix)
M42d	15964	24-7	1100	Sun	Russian diplo/intel. Msg 145 on link 36882	FSK 200/1000	(AB/MPJ/D anix)
M42d	13549	24-7	1110	Sun	Russian diplo/intel. Msg 145 on link 36882	FSK 200/1000	(AB/MPJ/D anix)
M42d	11524	24-7	1120	Sun	Russian diplo/intel. Msg 145 on link 36882	FSK 200/1000	(AB/MPJ/D anix/BvR)
M42d	17544	24-7	1530	Sun	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix)
M42d	15626	24-7	1540	Sun	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix)
M42d	13496	24-7	1550	Sun	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix/MPJ)

M42d	14878	25-7	0025	Mon	Russian diplo/intel	FSK 200/1000	(Danix)
M42d	12185	25-7	0035	Mon	Russian diplo/intel	FSK 200/1000	(Danix)
M42d	14878	25-7	0125	Mon	Russian diplo/intel	FSK 200/1000	(Danix)
M42d	12185	25-7	0135	Mon	Russian diplo/intel	FSK 200/1000	(Danix)
M42d	17479	26-7	1650	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix)
M42d	15931	26-7	1700	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix)
M42d	13567	26-7	1710	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix)
M42d	14456	26-7	2300	Tue	Russian diplo/intel. Null msg on link 40988	FSK 200/1000	(Danix)
M42d	12188	26-7	2310	Tue	Russian diplo/intel. Null msg on link 40988	FSK 200/1000	(Danix)
M42d	11084	26-7	2320	Tue	Russian diplo/intel. Null msg on link 40988	FSK 200/1000	(Danix)
M42d	17419	27-7	0600	Wed	Russian diplo/intel. Link ID 32816, Date 23rd, Serial #76, Groups 285	FSK 200/1000	(Danix)
M42d	15707	27-7	0610	Wed	Russian diplo/intel. Link ID 32816, Date 23rd, Serial #76, Groups 285	FSK 200/1000	(Danix)
M42d	13446	27-7	0620	Wed	Russian diplo/intel. Link ID 32816, Date 23rd, Serial #76, Groups 285	FSK 200/1000	(Danix)
M42d	15795	27-7	0800	Wed	Russian diplo/intel. Msg 005 on link 16405	FSK 200/1000	(AB/Danix)
M42d	15844	27-7	0800	Wed	Russian diplo/intel. Msg 020 on link 45075	FSK 200/1000	(AB/Danix)
M42d	13396	27-7	0810	Wed	Russian diplo/intel. Msg 020 on link 45075	FSK 200/1000	(AB/Danix)
M42d	13428	27-7	0810	Wed	Russian diplo/intel. Msg 005 on link 16405	FSK 200/1000	(AB/Danix)
M42d	11060	27-7	0820	Wed	Russian diplo/intel. Msg 005 on link 16405	FSK 200/1000	(AB/Danix)
M42d	11089	27-7	0820	Wed	Russian diplo/intel. Msg 020 on link 45075	FSK 200/1000	(AB/Danix)
M42d	14948	27-7	0915	Wed	Russian diplo/intel. Null msg on link 20492	FSK 200/1000	(AB/Danix)
M42d	12176	27-7	0925	Wed	Russian diplo/intel. Null msg on link 20492	FSK 200/1000	(AB/Danix)
M42d	10177	27-7	0935	Wed	Russian diplo/intel. Null msg on link 20492	FSK 200/1000	(AB/Danix)
M42d	16031	27-7	2200	Wed	Russian diplo/intel. Link ID 49202, Null message	FSK 200/1000	(Danix)
M42d	14369	27-7	2210	Wed	Russian diplo/intel. Link ID 49202, Null message	FSK 200/1000	(Danix)
M42d	12193	27-7	2220	Wed	Russian diplo/intel. Link ID 49202, Null message	FSK 200/1000	(Danix)
M42d	17419	28-7	0600	Thu	Russian diplo/intel. Link ID 32816, Date 23rd, Serial #76, Groups 285	FSK 200/1000	(Danix)
M42d	15707	28-7	0610	Thu	Russian diplo/intel. Link ID 32816, Date 23rd, Serial #76, Groups 285	FSK 200/1000	(Danix)
M42d	13446	28-7	0620	Thu	Russian diplo/intel. Link ID 32816, Date 23rd, Serial #76, Groups 285	FSK 200/1000	(Danix)
M42d	15795	28-7	0800	Thu	Russian diplo/intel. Msg 005 on link 16405	FSK 200/1000	(AB/Danix)
M42d	15844	28-7	0800	Thu	Russian diplo/intel. Msg 020 on link 45075	FSK 200/1000	(AB/Danix)
M42d	13396	28-7	0810	Thu	Russian diplo/intel. Msg 020 on link 45075	FSK 200/1000	(AB/Danix)
M42d	13428	28-7	0810	Thu	Russian diplo/intel. Msg 005 on link 16405	FSK 200/1000	(AB/Danix)
M42d	11060	28-7	0820	Thu	Russian diplo/intel. Msg 005 on link 16405	FSK 200/1000	(AB/Danix)
M42d	11089	28-7	0820	Thu	Russian diplo/intel. Msg 020 on link 45075	FSK 200/1000	(AB/Danix)
M42d	13387	28-7	1330	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB/Danix)

M42d	11023	28-7	1340	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB/Danix)
M42d	9166	28-7	1350	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB/Danix)
M42d	15964	30-7	1100	Sat	Russian diplo/intel. Msg 145 on link 36882	FSK 200/1000	(AB/Danix)
M42d	13549	30-7	1110	Sat	Russian diplo/intel. Msg 145 on link 36882	FSK 200/1000	(AB/Danix)
M42d	11524	30-7	1120	Sat	Russian diplo/intel. Msg 145 on link 36882	FSK 200/1000	(AB/Danix)
M42d	17436	30-7	2100	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(AB/Danix)
M42d	15789	30-7	2110	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(AB/Danix)
M42d	13473	30-7	2120	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(AB/Danix)
M42d	15964	31-7	1100	Sun	Russian diplo/intel. Msg 145 on link 36882	FSK 200/1000	(AB/Danix)
M42d	13549	31-7	1110	Sun	Russian diplo/intel. Msg 145 on link 36882	FSK 200/1000	(AB/Danix/ MPJ)
M42d	11524	31-7	1120	Sun	Russian diplo/intel. Msg 145 on link 36882	FSK 200/1000	(AB/Danix/ BvR)
M42d	17544	31-7	1530	Sun	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix)
M42d	15626	31-7	1540	Sun	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix/ MPJ)
M42d	13496	31-7	1550	Sun	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix/ MPJ)
M51a	6825	27-7	1811	Wed	5FGs	CW	(BvR)
M51a	3881	31-7	0614	Sun	FAV22	CW	(BvR)
M89	3642	2-7	1703	Sat	DKG6 de 3A7D V	CW	(F5JBR)
M89	3330	3-7	1525	Sun	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	3642	3-7	1528	Sun	3A7D i.p HW MSG GA NR 033/CCK CK 299 19 0704 0004 RMKS 6845 TO 6475 6617 6459 6825 6255 =	CW	(JPL)
M89	3642	3-7	2313	Sun	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3642	3-7	2315	Sun	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	3-7	2315	Sun	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	3642	4-7	2027	Mon	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	4-7	2027	Mon	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	3330	4-7	2031	Mon	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	3883	4-7	2035	Mon	i.p. 7U6N 7U3A 4T5N 5U6D 3T7N 4A5N III = AD3A UN 5U 6T4 ...	CW	(JPL)
M89	10180	5-7	1310	Tue	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3642	5-7	1555	Tue	3A7D i.p. AR QSL ? HR WK NR 235	CW	(JPL)
M89	3330	5-7	1601	Tue	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	3330	6-7	1610	Wed	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	3642	6-7	1829	Wed	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3330	6-7	1831	Wed	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	6845	7-7	0159	Thu	CQ (x3) DE DP91 (x2) V	CW	(JPL)
M89	6825	7-7	0205	Thu	CQ (x4) DE DP9AR UA (x2) F HR NIL GB SK. HR NIL SK GB	CW	(JPL)
M89	3636	7-7	1351	Thu	i.p. R QSL 2149 K. GA NR 118 CK 91 31 0707 3III 2150 K. GA = U7T4 U7T4 U7T4 U7N4 UNU6 T3US 74U6 ... GA K	CW	(JPL)
M89	3651	7-7	1356	Thu	i.p. 7A35 A5UT 5A4D T7U. ...	CW	(JPL)
M89	3642	7-7	1401	Thu	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3330	7-7	1415	Thu	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	6840	7-7	1420	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	3642	7-7	1741	Thu	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3750	8-7	1443	Fri	i.p. W K. RPT 32 W K. R RPT 34 TO 41 W K	CW	(JPL)
M89	3642	8-7	1458	Fri	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3642	8-7	1554	Fri	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3330	9-7	1734	Sat	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)

M89	3642	9-7	1736	Sat	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	10180	10-7	1506	Sun	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	7602	10-7	1709	Sun	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3642	10-7	1712	Sun	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3642	10-7	2036	Sun	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	10-7	2036	Sun	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	7602	10-7	2036	Sun	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4131	10-7	2040	Sun	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	3642	10-7	2236	Sun	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	4131	10-7	2237	Sun	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	10180	11-7	1228	Mon	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	10180	11-7	1403	Mon	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3642	11-7	1835	Mon	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3330	11-7	1836	Mon	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	7602	11-7	1839	Mon	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	7602	11-7	2024	Mon	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	4131	11-7	2025	Mon	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	3642	11-7	2027	Mon	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	10180	12-7	1234	Tue	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3642	12-7	1539	Tue	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	12-7	1539	Tue	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4657	12-7	1544	Tue	i.p. 6NDA NDT6 3U7D DDAA 7T65 III III = N575 T3TT NAT4 TDNU (Cont'd)	CW	(JPL)
M89	5177	12-7	1559	Tue	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
M89	5415	12-7	1607	Tue	i.p. T3D7 DUAN 64D3 QSL ? K	CW	(JPL)
M89	6840	12-7	1620	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //N/H	CW	(JPL)
M89	3642	12-7	1717	Tue	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	12-7	1717	Tue	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	5177	12-7	1718	Tue	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
M89	3642	12-7	2121	Tue	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	12-7	2121	Tue	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	3642	13-7	0002	Wed	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	13-7	0002	Wed	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	5801	13-7	0133	Wed	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	10180	13-7	0133	Wed	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	5801	13-7	0958	Wed	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3330	13-7	1646	Wed	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	3642	13-7	1648	Wed	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	13-7	1648	Wed	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4131	13-7	1655	Wed	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4322	13-7	1658	Wed	V B9GJ (x3) DE FSC8 (x2)	CW	(JPL)
M89	3330	13-7	1827	Wed	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	3642	13-7	1828	Wed	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	13-7	1828	Wed	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4131	13-7	1829	Wed	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	3642	13-7	2248	Wed	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	13-7	2248	Wed	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	5801	14-7	0909	Thu	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	10180	14-7	0909	Thu	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	6840	14-7	0920	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	10640	14-7	0920	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	14-7	1120	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	10640	14-7	1120	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	8888	14-7	1126	Thu	i.p. 7T45 5D6A TA4U N765 7N3U TD3T 3U6U	CW	(JPL)
M89	3330	14-7	1518	Thu	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	4322	14-7	1519	Thu	V B9GJ (x3) DE FSC8 (x2)	CW	(JPL)
M89	4860	14-7	1520	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	14-7	1520	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)

M89	3642	14-7	1523	Thu	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	14-7	1523	Thu	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4720	14-7	1530	Thu	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4131	14-7	1606	Thu	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	5801	15-7	0154	Fri	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	10180	15-7	0154	Fri	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	5801	15-7	0910	Fri	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	10180	15-7	0910	Fri	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	5801	15-7	1253	Fri	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	10180	15-7	1253	Fri	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	4860	15-7	1320	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	15-7	1320	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	4720	15-7	1330	Fri	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	3642	15-7	1455	Fri	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	15-7	1455	Fri	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	3330	15-7	1456	Fri	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	3330	15-7	1713	Fri	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	3642	15-7	1715	Fri	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	15-7	1715	Fri	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4322	15-7	1716	Fri	V B9GJ (x3) DE FSC8 (x2)	CW	(JPL)
M89	4860	15-7	1720	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	15-7	1720	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	4720	15-7	1730	Fri	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4131	15-7	1741	Fri	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4720	15-7	2230	Fri	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	3642	15-7	2239	Fri	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	15-7	2239	Fri	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4131	15-7	2240	Fri	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	5801	16-7	0958	Sat	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	10180	16-7	0958	Sat	3A7D i.p. 6845 TO 6617 = CL/1830/ZBT/6845/6617 AR	CW	(JPL)
M89	6840	16-7	1020	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	10640	16-7	1020	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	5588	16-7	1025	Sat	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	5801	16-7	1323	Sat	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	10180	16-7	1323	Sat	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	3642	16-7	1538	Sat	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	16-7	1538	Sat	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4322	16-7	1540	Sat	V B9GJ (x3) DE FSC8 (x2)	CW	(JPL)
M89	3330	17-7	1701	Sun	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	4322	17-7	1704	Sun	V B9GJ (x3) DE FSC8 (x2)	CW	(JPL)
M89	3642	17-7	1709	Sun	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	4131	17-7	1710	Sun	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4322	17-7	1711	Sun	V B9GJ (x3) DE FSC8 (x2)	CW	(JPL)
M89	4860	17-7	1720	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	17-7	1720	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	4720	17-7	1730	Sun	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	3330	18-7	1253	Mon	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	8888	18-7	1255	Mon	i.p. 65A4 7TAN 365D U47T AU43 5D67 III = 5U3N 46AD 7T5A 3N46 DU7T ...	CW	(JPL)
M89	4860	18-7	1320	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)

M89	6840	18-7	1320	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	5801	18-7	1322	Mon	V DKG6 (x3) DE 3A7D (x2) //N/H	CW	(JPL)
M89	4322	18-7	1329	Mon	V B9GJ (x3) DE FSC8 (x2)	CW	(JPL)
M89	4720	18-7	1330	Mon	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	3642	18-7	1439	Mon	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	18-7	1439	Mon	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	3330	18-7	1711	Mon	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	3642	18-7	1712	Mon	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	18-7	1712	Mon	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4322	18-7	1713	Mon	V B9GJ (x3) DE FSC8 (x2)	CW	(JPL)
M89	4131	18-7	1714	Mon	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4860	18-7	1720	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	18-7	1720	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	4720	18-7	1730	Mon	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	3330	18-7	2051	Mon	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	3642	18-7	2052	Mon	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	4322	18-7	2052	Mon	V B9GJ (x3) DE FSC8 (x2)	CW	(JPL)
M89	6840	19-7	1020	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	10640	19-7	1020	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	3642	19-7	1458	Tue	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	19-7	1458	Tue	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	5671	19-7	1506	Tue	i.p. UTA7 A65U NT76 4475 D74T 465N ...	CW	(JPL)
M89	3330	19-7	1638	Tue	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	4860	19-7	1720	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	19-7	1720	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	4720	19-7	1730	Tue	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4720	19-7	1930	Tue	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	3330	19-7	1933	Tue	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	4131	19-7	1946	Tue	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	3642	19-7	2310	Tue	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	19-7	2310	Tue	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	6840	19-7	2320	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	10640	19-7	2320	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	5801	20-7	1054	Wed	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	10180	20-7	1054	Wed	3A7D i.p. UAAD UN4T A4U4 5DTD T4AU 75AU 6AUD U563	CW	(JPL)
M89	6840	20-7	1120	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	10640	20-7	1120	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6074	20-7	1127	Wed	i.p. A3AA AAU3 3D63 3A5U T6T6 3U5T AUTT	CW	(JPL)
M89	3642	20-7	1433	Wed	V DKG6 (x3) DE 3A7D (x2) //76022	CW	(JPL)
M89	7602	20-7	1433	Wed	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	3330	20-7	1443	Wed	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	4720	20-7	1530	Wed	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4860	20-7	1920	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	20-7	1920	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)

M89	4720	20-7	1930	Wed	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	6840	21-7	1120	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	10640	21-7	1120	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	4322	21-7	1122	Thu	V B9GJ (x3) DE FSC8 (x2)	CW	(JPL)
M89	4860	21-7	1520	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	21-7	1520	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	3330	21-7	1526	Thu	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	3642	21-7	1527	Thu	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	21-7	1527	Thu	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4322	21-7	1528	Thu	V B9GJ (x3) DE FSC8 (x2)	CW	(JPL)
M89	3330	21-7	1849	Thu	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	3642	21-7	1850	Thu	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	21-7	1850	Thu	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4322	21-7	1851	Thu	V B9GJ (x3) DE FSC8 (x2)	CW	(JPL)
M89	3642	21-7	2312	Thu	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	21-7	2312	Thu	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	6840	21-7	2320	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	6840	22-7	1120	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	10640	22-7	1120	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	5588	22-7	1125	Fri	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	7602	22-7	1536	Fri	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	4720	22-7	2030	Fri	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	3330	22-7	2035	Fri	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	4322	22-7	2036	Fri	V B9GJ (x3) DE FSC8 (x2)	CW	(JPL)
M89	7602	22-7	2040	Fri	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	10180	23-7	0636	Sat	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	5801	23-7	1157	Sat	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	10180	23-7	1157	Sat	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	3642	23-7	1527	Sat	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	23-7	1527	Sat	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4131	23-7	1529	Sat	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
M89	3330	23-7	1537	Sat	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	3330	23-7	1800	Sat	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	4131	23-7	1802	Sat	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
M89	4322	23-7	1803	Sat	V B9GJ (x3) DE FSC8 (x2)	CW	(JPL)
M89	4720	23-7	1830	Sat	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4131	23-7	2210	Sat	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
M89	4860	23-7	2220	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	23-7	2220	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	4720	23-7	2230	Sat	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	5801	24-7	1339	Sun	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	10180	24-7	1339	Sun	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	3330	24-7	1628	Sun	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	4720	24-7	1630	Sun	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4322	24-7	1633	Sun	V B9GJ (x3) DE FSC8 (x2)	CW	(JPL)
M89	3642	24-7	1635	Sun	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	10180	24-7	1635	Sun	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	5801	25-7	0135	Mon	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	10180	25-7	0135	Mon	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	6840	25-7	0820	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)

M89	10640	25-7	0820	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	25-7	0920	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	10640	25-7	0920	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	25-7	1120	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	10640	25-7	1120	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	10180	25-7	1121	Mon	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	4322	25-7	1122	Mon	V B9GJ (x3) DE FSC8 (x2)	CW	(JPL)
M89	4720	25-7	1428	Mon	i.p. 3437 5N76 N5U5 5DA5 D74T 5T65	CW	(JPL)
M89	4720	25-7	1430	Mon	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4720	25-7	1730	Mon	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	3330	25-7	1731	Mon	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	3642	25-7	1734	Mon	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	25-7	1734	Mon	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4322	25-7	1735	Mon	V B9GJ (x3) DE FSC8 (x2)	CW	(JPL)
M89	10180	26-7	1117	Tue	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3330	26-7	1118	Tue	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	6840	26-7	1120	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	10640	26-7	1120	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	4322	26-7	1123	Tue	V B9GJ (x3) DE FSC8 (x2)	CW	(JPL)
M89	5801	26-7	1214	Tue	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	10180	26-7	1214	Tue	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	6840	26-7	1220	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	10640	26-7	1220	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6720	26-7	1231	Tue	i.p. GA NR 185 CK 90 51 0726 2030 RMKS 6678 TO 5115 K	CW	(JPL)
M89	6840	27-7	1120	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	10640	27-7	1120	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	5801	27-7	1218	Wed	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	10180	27-7	1218	Wed	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	3642	27-7	1657	Wed	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	27-7	1657	Wed	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	3330	27-7	1700	Wed	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	4322	27-7	1702	Wed	V B9GJ (x3) DE FSC8 (x2)	CW	(JPL)
M89	4720	27-7	1830	Wed	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	3330	27-7	1918	Wed	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	4860	27-7	1920	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	27-7	1920	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	4720	27-7	1930	Wed	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	3642	27-7	1958	Wed	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	27-7	1958	Wed	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	3642	29-7	1821	Fri	DKG6 de 3A7D V	CW	(F5JBR)
M95	8073	14-7	1134	Thu	V BNGC (x3) DE XSV85 (x2) HR MSG GA PSE CY NR 552 CK 137 35 0714 1554 = TA4 3U6 ...	CW	(JPL-HK)
M95	4243	14-7	1146	Thu	VVV HR MSG TOYR PSE CY NR 28 CK 114 35 0714 1507 UTU TA4 3U6 3A4 TTU 773 ...	CW	(JPL-HK)

M95	8073	16-7	1134	Sat	V BNGC (x3) DE XSV85 (x2) HR MSG PSE CY NR 0556 CK 137 35 07A6 A553 = TA6 3U6 3AN 3.7 TAU 773 356 ...	CW	(JPL-HK)
M95	4243	16-7	1147	Sat	V HR MSG TOYR PSE CY NR 32 CK 128 35 0716 1518 = UTU TA6 3U6 3A4 TTU 773 357 373 ... AR //4243 kHz	CW	(JPL-HK)
M95	9054	16-7	1147	Sat	V HR MSG TOYR PSE CY NR 32 CK 128 35 0716 1518 = UTU TA6 3U6 3A4 TTU 773 357 373 ... AR //4243 kHz	CW	(JPL-HK)
M95	9054	19-7	2348	Tue	V ... PSE CY NR ...	CW	(JPL-HK)
M95	8073	20-7	0003	Wed	V BNGC (x3) DE XSV85 (x2)	CW	(JPL-HK)
M95	8073	20-7	1135	Wed	V BNGC (x3) DE XSV85 (x2) HR MSG GA PSE CY NR 0564 CK 100 35 0720 1521 = TUT 3U6 3AN 3U7 TAU 773 TA7 773 TU4 ...	CW	(JPL-HK)
M95	5555	21-7	1530	Thu	CK 20 18 0721 2255 RMKS 0457 TO 6918 K (see N&O 226)	CW	(JPL-HK)
M95	8073	22-7	1135	Fri	V BNGC (x3) DE XSV85 (x2) HR MSG GA NR NR 0568 CK 116 35 0722 11 NR AGN	CW	(JPL-HK)
M95	4242	22-7	1141	Fri	05 05 05 VVV JNVB DE 4GJW K. R R DE NF9E QSA 3 K (see N&O 226)	CW	(JPL-HK)
M95	4243	22-7	1145	Fri	V NR 071 CK 17 35 0722 1636 = UT. TUU 3.6 3A4 TTA TTU TT3 773 343 DN7 //9054 kHz	CW	(JPL-HK)
M95	9054	22-7	1145	Fri	V NR 071 CK 17 35 0722 1636 = UT. TUU 3.6 3A4 TTA TTU TT3 773 343 DN7 //4243 kHz	CW	(JPL-HK)
M95	8073	23-7	1137	Sat	V BNGC (x3) DE XSV85 (x2) HR MSG GA PSE CY NR 0570 CK 231 35 07.3 A608 = TU3 3U6 3AN 3U7 TAU ...	CW	(JPL-HK)
M95	4243	23-7	1148	Sat	VVV HR MSG TOYR PSE CY NR 003 CK 19 35 0723 1517 = 5TD UTT TU3 3U6 3A4 353 373 36T ... //9054 kHz	CW	(JPL-HK)
M95	9054	23-7	1148	Sat	VVV HR MSG TOYR PSE CY NR 003 CK 19 35 0723 1517 = 5TD UTT TU3 3U6 3A4 353 373 36T ... //4243 kHz	CW	(JPL-HK)
M95	8888	25-7	0826	Mon	i.p. MSG NR 785CCK CK 45 71 0725 1620 RMKS 7168 TO 3691 K	CW	(JPL-HK)
M95	8073	25-7	1143	Mon	V BNGC (x3) DE XSV85 (x2) HR MSG GA PSE CY NR 575 CK 317 350725 1653 = TU5 3U6 3AN 3U7 TAU 773 ...	CW	(JPL-HK)
M95	4243	25-7	1148	Mon	i.p. PSE CY NR 50 CK 36 35 0725 1529 = UTU TU5 3U6 3A4 TTU 773 354 N35 //9054 kHz	CW	(JPL-HK)
M95	9054	25-7	1148	Mon	i.p. PSE CY NR 50 CK 36 35 0725 1529 = UTU TU5 3U6 3A4 TTU 773 354 N35 //4243 kHz	CW	(JPL-HK)
M95	8073	26-7	1140	Tue	V BNGC (x3) DE XSV85 (x2) HR MSGS GA PSE CY 7G NR 0582 CK 176 35 0726 1604 = TU6 3U6 3AN 3U7 TAU 773 TA7 ...	CW	(JPL-HK)
M95	4243	26-7	1155	Tue	773 3U7 357 4A5 34A N3D ... AR //9054 kHz	CW	(JPL-HK)
M95	9054	26-7	1155	Tue	773 3U7 357 4A5 34A N3D ... AR //4243 kHz	CW	(JPL-HK)
M95	8073	27-7	1137	Wed	V BNGC (x3) DE XSV85 (x2) HR MSGS GA NR 0588 CK 127 35 0727 1536 = TU7 3U6 3AN 3U7 TAU 773 TA7 773 ... AR	CW	(JPL-HK)
MC03	3884	6-7	1950	Wed	i.p. FF 2180633 294 23449R 00900 42 FF 827 0643 299 1523 48 FF 441 0634 290 6799 40 ...	CW	(JPL-Sib)
MX	7737	7-7	1302	Thu	Beacon V	CW	(EW)
MX	5156.8	7-7	2112	Thu	Beacon L, St Petersburg	CW	(AB)
MX	8497.8	7-7	2112	Thu	Beacon L, St Petersburg	CW	(AB)
MX	7027.5	14-7	2115	Thu	Beacon V	CW	(AB)

MX	5156.8	14-7	2117	Thu	Beacon L, St Petersburg	CW	(AB)
MX	8497.8	14-7	2117	Thu	Beacon L, St Petersburg	CW	(AB)
MX	5156.8	19-7	0500	Tue	Beacon L, St Petersburg	CW	(AB)
MX	5154.4	21-7	1211	Thu	Beacon M, Magadan	CW	(AB-KOR)
MX	7039.2	21-7	1211	Thu	Beacon F, Vladivostok	CW	(AB-KOR)
MX	10872.2	21-7	1211	Thu	Beacon F, Vladivostok	CW	(AB-KOR)
MX	10871.7	21-7	1218	Thu	Beacon D, Sevastopol	CW	(AB)
MX	10871.9	21-7	1218	Thu	Beacon S, Sevoromorsk	CW	(AB)
MX	10872	21-7	1218	Thu	Beacon C, Moscow	CW	(AB)
MX	13537.7	21-7	1218	Thu	Beacon D, Sevastopol	CW	(AB)
MX	13537.9	21-7	1218	Thu	Beacon S, Sevoromorsk	CW	(AB)
MX	13538	21-7	1218	Thu	Beacon C, Moscow	CW	(AB)
MX	16331.7	21-7	1218	Thu	Beacon D, Sevastopol	CW	(AB)
MX	16331.9	21-7	1218	Thu	Beacon S, Sevoromorsk	CW	(AB)
MX	16332	21-7	1218	Thu	Beacon C, Moscow	CW	(AB)
MX	8494.9	21-7	2215	Thu	Beacon S, Sevastopol	CW	(AAI)
MX	10872.2	23-7	1224	Sat	Beacon F, Vladivostok	CW	(AB)
MX	15332	27-7	0710	Wed	Beacon C, Moscow	CW	(Edd)
Q26	8073	14-7	1130	Thu	Messages	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	4243	14-7	1142	Thu	Messages //9054 kHz	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	9054	14-7	1142	Thu	Messages //4243 kHz	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	8073	16-7	1130	Sat	Messages	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	4243	16-7	1140	Sat	Messages //9054 kHz	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	9054	16-7	1140	Sat	Messages //4243 kHz	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	9054	19-7	2340	Tue	Messages	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	8073	20-7	0002	Wed	Messages	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	8073	20-7	1132	Wed	Messages	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	8073	22-7	1131	Fri	Messages	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	4243	22-7	1141	Fri	Messages //9054 kHz	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	9054	22-7	1141	Fri	Messages //4243 kHz	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	8073	23-7	1131	Sat	Messages	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	4243	23-7	1142	Sat	Messages //9054 kHz	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	9054	23-7	1142	Sat	Messages //4243 kHz	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	8073	25-7	1132	Mon	Messages	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	8073	26-7	1132	Tue	Messages	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	8073	27-7	1131	Wed	Messages	4+4 QPSK 75/3000 LSB	(JPL-HK)
RMv	6626	21-7	1140	Thu	Russian mil. Radio checks and test counts	USB	(Edd-RUS)
S06	10204	1-7	2000	Fri	761 761 761 00000	USB	(AB)
S06	8058	1-7	2100	Fri	761 761 761 00000	USB	(AB)
S06	6875	2-7	1900	Sat	614 614 614 00000	USB	(AB)
S06	13469	7-7	0930	Thu	842 106 42 86524 61570 94033 ... 81765 02336 47307 106 42 00000	USB	(Danix-RUS)
S06	9075	14-7	1700	Thu	975 975 975 45679 (R4) 00000	USB	(JkC)
S06	15875	15-7	0830	Fri	842 975 43 83330 15099 26358 ... 70816 46734 38460 87961 975 43 000000	USB	(AB)
S06	10204	15-7	2000	Fri	761 761 761 00000	USB	(AB/MPJ)
S06	15875	21-7	0830	Thu	842 601 44 67010 06612 68987 ... 37994 82989 14252 601 44 00000	USB	(AB/HFD)
S06	13469	21-7	0930	Thu	842 601 44 67010 06612 68987 ... 37994 82989 14252 601 44 00000	USB	(AB-HK/HFD)
S06	15875	22-7	0830	Fri	842 601 44 67010 06612 68987 ... 37994 82989 14252 601 44 00000	USB	(AB-HK)
S06	13469	22-7	0930	Fri	842 601 44 67010 06612 68987 ... 37994 82989 14252 601 44 00000	USB	(AB-HK)
S06	9463	27-7	0800	Wed	801 346 52 26222 69395 65655 ... 22205 52215 05232 346 52 00000	USB	(qsr711)
S06	7353	27-7	0815	Wed	801 346 52 26222 69395 65655 ... 22205 52215 05232 346 52 00000	USB	(qsr711)
S06	8170	27-7	0854	Wed	i.p. 55555 41226 40629 51564 54564 57318 (stops, nothing further)	USB	(uascan)
S06	15875	28-7	0830	Thu	842 379 45 09112 54631 69640 ... 55532 27831 82861 378 45 00000	USB	(AB)
S06c	8171	5-7	1405	Tue	11625	USB	(Danix/qsr711)

S06c	7823	5-7	1415	Tue	11625	USB	(Danix/qsr7 11)
S06c	8170	27-7	0851	Wed	11625	USB	(uascan)
S06s	10290	1-7	0930	Fri	516 809 7 33699 39998 30667 35947 83964 40774 45983 809 7 00000	USB	(AB)
S06s	9655	1-7	0940	Fri	516 809 7 33699 39998 30667 35947 83964 40774 45983 809 7 00000	USB	(AB)
S06s	12460	2-7	0800	Sat	254 860 7 14111 21484 10618 85692 32018 12886 14986 860 7 00000	USB	(AB)
S06s	10250	2-7	0810	Sat	254 860 7 14111 21484 10618 85692 32018 12886 14986 860 7 00000	USB	(AB)
S06s	16320	3-7	0630	Sun	524 906 7 40639 33180 48007 37230 46446 43476 35453 906 7 00000	USB	(AB)
S06s	14875	3-7	0640	Sun	524 906 7 40639 33180 48007 37230 46446 43476 35453 906 7 00000	USB	(AB)
S06s	8221	4-7	0830	Mon	371 894 5 31900 48366 36534 32840 48436 894 5 00000	USB	(AB)
S06s	9353	4-7	0840	Mon	371 894 5 31900 48366 36534 32840 48436 894 5 00000	USB	(AB)
S06s	16380	4-7	0900	Mon	872 950 6 92324 36615 36491 49588 41061 83354 950 6 00000	USB	(AB)
S06s	14835	4-7	0910	Mon	872 950 6 02324 36615 36491 49588 41061 83354 950 6 00000	USB	(AB)
S06s	10230	4-7	1200	Mon	831 470 5 38536 82123 44698 38818 33533 470 5 00000	USB	(AB)
S06s	12165	4-7	1210	Mon	831 470 5 38536 82123 44698 38818 33533 470 5 00000	USB	(AB)
S06s	15945	5-7	0600	Tue	438 576 9 31034 39477 33367 37555 33300 92480 82123 44698 40461 576 9 00000	USB	(AB)
S06s	16945	5-7	0610	Tue	438 576 9 31034 39477 33367 37555 33300 92480 82123 44698 40461 576 9 00000	USB	(AB)
S06s	6810	5-7	1100	Tue	754 210 6 36489 48648 33184 43886 45494 81397 210 6 00000	USB	(AB)
S06s	7560	5-7	1110	Tue	754 210 6 36489 48648 33184 43886 45494 81397 210 6 00000	USB	(AB)
S06s	11565	6-7	0530	Wed	464 809 5 48992 45648 34061 83314 33623 809 5 00000	USB	(AB)
S06s	12560	6-7	0540	Wed	464 809 5 48992 45648 34061 83314 33623 809 5 00000	USB	(AB)
S06s	14977	6-7	0710	Wed	745 832 6 31331 49468 91296 93550 44280 49877 832 6 00000	USB	(AB)
S06s	12110	6-7	0730	Wed	745 832 6 31331 49468 91296 93550 44280 49877 832 6 00000	USB	(AB)
S06s	14580	6-7	1000	Wed	729 860 5 50479 34266 41945 36506 48184 860 5 00000	USB	(AB)
S06s	16020	6-7	1010	Wed	729 860 5 50479 34266 41945 36506 48184 860 5 00000	USB	(AB)
S06s	6844	7-7	0900	Thu	624 983 5 84090 09531 88430 33240 61135 983 5 00000	USB	(AB)
S06s	12952	7-7	0900	Thu	167 294 5 40614 77249 40678 17976 21816 294 5 00000	AM	(AB)
S06s	7161	7-7	0910	Thu	624 983 5 84090 09531 88430 33240 61135 983 5 00000	USB	(AB)
S06s	13565	7-7	0910	Thu	167 294 5 40614 77249 40678 17976 21816 294 5 00000	AM	(AB)
S06s	9255	7-7	0930	Thu	314 860 5 00559 55784 11453 57325 84789 860 5 00000	USB	(AB)
S06s	10325	7-7	0940	Thu	314 860 5 00559 55784 11453 57325 84789 860 5 00000	USB	(AB)
S06s	13145	7-7	1200	Thu	425 893 6 10900 58079 46009 15744 15521 63577 893 6 00000	USB	(AB)
S06s	14535	7-7	1210	Thu	425 893 6 10900 58079 46009 15744 15521 63577 893 6 00000	USB	(AB)

S06s	10290	8-7	0930	Fri	516 809 7 33699 39998 30667 35947 83964 40774 45983 809 7 00000	USB	(AB)
S06s	9655	8-7	0940	Fri	516 809 7 33699 39998 30667 35947 83964 40774 45983 809 7 00008	USB	(AB)
S06s	16320	10-7	0630	Sun	524 906 7 40639 33180 48007 37230 46446 43476 35453 906 7 00000	USB	(AB)
S06s	14875	10-7	0640	Sun	524 906 7 40639 33180 48007 37230 46446 43476 35453 906 7 00000	USB	(AB/BvR)
S06s	8221	11-7	0830	Mon	371 894 5 31900 48366 36534 32840 48436 894 5 00000	USB	(AB)
S06s	9353	11-7	0840	Mon	371 894 5 31900 48366 36534 32840 48436 894 5 00000	USB	(AB)
S06s	10230	11-7	1200	Mon	831 470 5 38536 82123 44698 38818 33533 470 5 00000	USB	(AB)
S06s	12165	11-7	1210	Mon	831 470 5 38536 82123 44698 38818 33533 470 5 00000	USB	(AB)
S06s	15945	12-7	0600	Tue	874 ?????	USB	(AB)
S06s	14373	12-7	0800	Tue	352 849 6 48318 30605 43003 83659 86760 36014 849 6 00000	USB	(AB)
S06s	12935	12-7	0810	Tue	352 849 6 48318 30605 43003 83659 86760 36014 849 6 00000	USB	(AB)
S06s	7744	12-7	1510	Tue	537 214 6 33365 47183 31326 36388 94323 45547 214 6 00000	USB	(AB)
S06s	11565	13-7	0530	Wed	464 809 5 48992 45648 34061 83314 33623 809 5 00000	USB	(AB)
S06s	12560	13-7	0540	Wed	464 809 5 48992 45648 34061 83314 33623 809 5 00000	USB	(AB)
S06s	14977	13-7	0710	Wed	745 832 6 31331 49468 91296 93550 44280 49877 832 6 00000	USB	(AB)
S06s	12110	13-7	0730	Wed	745 832 6 31331 49468 91296 93550 44280 49877 832 6 00000	USB	(AB)
S06s	9485	13-7	0820	Wed	471 958 6 93738 81704 38342 33489 16930 30384 958 6 00000	USB	(AB)
S06s	11085	13-7	0830	Wed	471 958 6 93738 81704 38342 33489 16930 30384 958 6 00000	USB	(AB)
S06s	14580	13-7	1000	Wed	729 860 5 50479 34266 41945 36506 48184 860 5 00000	USB	(AB)
S06s	16020	13-7	1010	Wed	729 860 5 50479 34266 41945 36506 48184 860 5 00000	USB	(AB)
S06s	6844	14-7	0900	Thu	624 983 5 84090 09531 88430 33240 61135 983 5 00000	USB	(AB)
S06s	7161	14-7	0910	Thu	624 983 5 84090 09531 88430 33240 61135 983 5 00000	USB	(AB)
S06s	9255	14-7	0930	Thu	314 860 5 00559 55784 11453 57325 84789 860 5 00000	USB	(AB)
S06s	10325	14-7	0940	Thu	314 860 5 00559 55784 11453 57325 84789 860 5 00000	USB	(AB)
S06s	13145	14-7	1200	Thu	425 893 6 10900 58079 46009 15744 15521 63577 893 6 00000	AM	(AB)
S06s	14535	14-7	1210	Thu	425 893 6 10900 58079 46009 15744 15521 63577 893 6 00000	AM	(AB)
S06s	10290	15-7	0930	Fri	516 829 7 46062 68672 97478 39685 30485 96632 52537 829 7 00000	USB	(AB)
S06s	9655	15-7	0940	Fri	516 829 7 46062 68672 97478 39685 30485 96632 52537 829 7 00000	USB	(AB)
S06s	16320	17-7	0630	Sun	524 809 6 75193 04875 34895 73904 57934 75894 809 6 00000	USB	(AB)
S06s	14875	17-7	0640	Sun	524 809 6 75193 04875 34895 73904 57934 75894 809 6 00000	USB	(AB)
S06s	10230	18-7	1200	Mon	831 542 6 15009 24140 48387 90147 82963 24162 542 6 00000	USB	(AB)
S06s	12165	18-7	1210	Mon	831 542 6 15009 24140 48387 90147 82963 24162 542 6 00000	USB	(AB)
S06s	15945	19-7	0600	Tue	438 260 5 17298 94961 35826 65906 77231 260 5 00000	USB	(AB)

S06s	16945	19-7	0610	Tue	438 260 5 17298 94961 35826 65906 77231 260 5 00000	USB	(AB)
S06s	7744	19-7	1510	Tue	537 491 6 52401 62819 92699 14600 74248 48754 491 6 00000	USB	(AB)
S06s	11565	20-7	0530	Wed	464 287 5 88620 58069 61732 74537 57440 287 5 0000	USB	(AB)
S06s	12560	20-7	0540	Wed	464 287 5 88620 58069 61732 74537 57440 287 5 0000	USB	(AB)
S06s	12110	20-7	0730	Wed	745 823 6 45032 39366 87471 31487 40130 30905 823 6 00000	USB	(AB)
S06s	14977	20-7	0740	Wed	745 823 6 45032 39366 87471 31487 40130 30905 823 6 00000	USB	(AB)
S06s	9485	20-7	0820	Wed	471 985 6 75193 04875 34895 73904 57934 73587 985 6 00000	USB	(AB)
S06s	11085	20-7	0830	Wed	471 985 6 75193 04875 34895 73904 57934 73587 985 6 00000	USB	(AB)
S06s	14580	20-7	1000	Wed	729 513 6 44024 31373 35876 35436 33024 87540 513 6 00000	USB	(AB)
S06s	16020	20-7	1010	Wed	729 513 6 44024 31373 35876 35436 33024 87540 513 6 00000	USB	(AB)
S06s	6844	21-7	0900	Thu	624 950 7 44024 31373 35876 35436 33024 87540 38713 950 7 00000	AM	(AB)
S06s	7161	21-7	0910	Thu	624 950 7 44024 31373 35876 35436 33024 87540 38713 950 7 00000	AM	(AB/Edd- POL)
S06s	9255	21-7	0930	Thu	314 975 6 62876 12164 83539 72813 53078 42164 975 6 00000	USB	(AB/Edd- POL)
S06s	10325	21-7	0940	Thu	314 975 6 62876 12164 83539 72813 53078 42164 975 6 00000	USB	(AB)
S06s	13145	21-7	1200	Thu	425 936 7 62781 93552 64515 63745 09809 72616 53619 936 7 00000	AM	(AB)
S06s	14535	21-7	1210	Thu	425 936 7 62781 93552 64515 63745 09809 72616 53619 936 7 00000	AM	(AB)
S06s	10290	22-7	0930	Fri	516 829 7 46062 68672 97478 39685 30485 96632 52537 829 7 00000	USB	(AB)
S06s	9655	22-7	0940	Fri	516 829 7 46062 68672 97478 39685 30485 96632 52537 829 7 00000	USB	(AB)
S06s	16320	24-7	0630	Sun	524 809 6 75193 04875 34895 73904 57934 75894 809 6 00000	USB	(AB)
S06s	14875	24-7	0640	Sun	524 809 6 75193 04875 34895 73904 57934 75894 809 6 00000	USB	(AB)
S06s	8221	25-7	0830	Mon	371 509 6 65906 66610 20336 17301 88554 82045 509 6 00000	USB	(AB)
S06s	9353	25-7	0840	Mon	371 509 6 65906 66610 20336 17301 88554 82045 509 6 00000	USB	(AB)
S06s	10230	25-7	1200	Mon	831 542 6 15009 24140 48387 90147 82963 24162 542 6 00000	USB	(AB)
S06s	12165	25-7	1210	Mon	831 542 6 15009 24140 48387 90147 82963 24162 542 6 00000	USB	(AB)
S06s	5660	26-7	1010	Tue	893 276 5 40135 45637 54562 67969 10865 00000	USB	(Edd-POL)
S06s	6810	26-7	1100	Tue	754 239 6 46062 68672 97478 29685 30485 96632 00000	USB	(Edd-HRV)
S06s	6766	26-7	1500	Tue	537 491 6 52401 62819 92699 14600 74248 48754 491 6 00000	USB	(AB)
S06s	7744	26-7	1510	Tue	537 491 6 52401 62819 92699 14600 74248 48754 491 6 00000	USB	(AB)
S06s	11565	27-7	0530	Wed	464 287 5 88620 58069 61732 74537 57440 287 5 00000	USB	(Edd)
S06s	12110	27-7	0730	Wed	745 823 6 45032 39366 87471 31487 40130 30905 823 6 00000	USB	(Edd)
S06s	9485	27-7	0820	Wed	471 985 6 65193 04875 34895 73904 57934 73587 985 6 00000	USB	(F5JBR)
S06s	9485	27-7	0820	Wed	471 985 6 75193 04875 34895 73904 57934 73587 985 6 00000	USB	(AB/Edd)
S06s	11085	27-7	0830	Wed	471 985 6 75193 04875 34895 73904 57934 73587 985 6 00000	USB	(AB)

S06s	14580	27-7	1000	Wed	729 513 6 44024 31373 35876 35436 33024 87540 513 6 00000	AM	(AB/Edd)
S06s	16020	27-7	1010	Wed	729 513 6 44024 31373 35876 35436 33024 87540 513 6 00000	AM	(AB)
S06s	6844	28-7	0900	Thu	624 950 7 44024 31373 35876 35436 33024 87540 38713 950 7 00000	AM	(AB/Edd)
S06s	7161	28-7	0910	Thu	624 950 7 44024 31373 35876 35436 33024 87540 38713 950 7 00000	AM	(AB)
S06s	9255	28-7	0930	Thu	314 975 6 62876 12164 83539 72813 53078 42164 975 6 00000	USB	(AB)
S06s	10325	28-7	0940	Thu	314 975 6 62876 12164 83539 72813 53078 42164 975 6 00000	USB	(AB)
S06s	13145	28-7	1200	Thu	425 936 7 62781 93552 64515 63745 09809 72616 53619 936 7 00000	AM	(AB)
S06s	14535	28-7	1210	Thu	425 936 7 62781 93552 64515 63745 09809 72616 53619 936 7 00000	AM	(AB)
S06s	16320	31-7	0630	Sun	524 524 524 00000	USB	(AB/BvR)
S06s	14875	31-7	0640	Sun	524 524 524 00000	USB	(AB/BvR)
S11a	5149	1-7	0455	Fri	321/00	USB	(AB)
S11a	8530	1-7	0915	Fri	484/00	USB	(AB)
S11a	11581	1-7	1020	Fri	426/00	USB	(AB)
S11a	4870	1-7	1955	Fri	371/00	USB	(AB/MPJ)
S11a	11092	2-7	1540	Sat	563/00	USB	(AB/MPJ)
S11a	5149	5-7	0655	Tue	327/34 Vnimanije 01313 09164 68363 ... 80551 40741 97301 Vnima- niye, rpt msg, konets	USB	(AB)
S11a	8530	5-7	0915	Tue	481/34 Vnimanije 46883 51637 47014 ... 86333 49398 56431 Vnimanye, rpt msg, konets	USB	(AB)
S11a	11092	6-7	1540	Wed	563/00	USB	(AB/GHn)
S11a	4870	6-7	1955	Wed	371/00	USB	(AB)
S11a	5149	8-7	0455	Fri	327/34 Vnimanije 01313 09164 68363 ... 80551 40741 97301 Vnima- niye, rpt msg, konets	USB	(AB)
S11a	8530	8-7	0915	Fri	481/34 Vnimanije 46883 51637 47014 ... 86333 49398 56431 Vnimanye, rpt msg, konets	USB	(AB)
S11a	4870	8-7	1955	Fri	371/00	USB	(AB)
S11a	11092	9-7	1540	Sat	563/00	USB	(AB/MPJ)
S11a	20180	11-7	0715	Mon	382/00	USB	(AB)
S11a	16530	11-7	1015	Mon	479/31 Vnimanije 00327 22677 65632 ... 72334 44278 74620 Vnima- niye, rpt msg, konets	USB	(AB)
S11a	5149	12-7	0455	Tue	321/00	USB	(AB)
S11a	8530	12-7	0915	Tue	484/00	USB	(AB)
S11a	11581	12-7	1020	Tue	426/00	USB	(AB)
S11a	11092	13-7	1540	Wed	563/00	USB	(AB)
S11a	4870	13-7	1955	Wed	371/00	USB	(MPJ)
S11a	16530	14-7	1015	Thu	479/31 Vnimanije 00327 22677 65632 ... 72334 44278 74620 Vnima- niye, rpt msg, konets	USB	(AB)
S11a	5149	15-7	0455	Fri	321/00	USB	(AB)
S11a	8530	15-7	0915	Fri	484/00	USB	(AB)
S11a	11581	15-7	1020	Fri	426/00	USB	(AB)
S11a	4870	15-7	1955	Fri	371/00	USB	(AB/MPJ)
S11a	11092	16-7	1540	Sat	563/00	USB	(AB)
S11a	16530	18-7	1015	Mon	575/00	USB	(MPJ)
S11a	8530	19-7	0915	Tue	484/00	USB	(AB)
S11a	11581	19-7	1020	Tue	426/00	USB	(AB)
S11a	11092	20-7	1540	Wed	560/37 Vnimanije 44134 74002 84661 ... 09932 29401 07632 Vnima- niye, rpt msg, konets	USB	(AB)
S11a	4870	20-7	1955	Wed	372/40 Vnimanije 89281 68573 27842 ... 53809 23185 92936 Vnima- niye, rpt msg, konets	USB	(AB)

S11a	16530	21-7	1015	Thu	475/00	USB	(AB/Edd-HOL)
S11a	5149	22-7	0455	Fri	321/00	USB	(AB/Edd-HOL)
S11a	8530	22-7	0915	Fri	484/00	USB	(AB/Edd-HOL)
S11a	11581	22-7	1020	Fri	426/00	USB	(AB/MPJ/Ed d-HOL)
S11a	4870	22-7	1955	Fri	372/40 Vnimanije 89281 68573 27842 ... 53809 23185 92936 Vnima- niye, rpt msg, konets	USB	(AB)
S11a	11092	23-7	1540	Sat	560/37 Vnimanije 44134 74002 84661 ... 09932 29401 07632 Vnima- niye, rpt msg, konets	USB	(AB)
S11a	5149	26-7	0455	Tue	321/00	USB	(Edd-HOL)
S11a	8530	26-7	0915	Tue	484/00	USB	(Edd-HOL)
S11a	11581	26-7	1020	Tue	426/00	USB	(Edd-HOL)
S11a	4870	27-7	1955	Wed	371/00	USB	(AB/MPJ)
S11a	16530	28-7	1015	Thu	475/00	USB	(AB)
S11a	11581	29-7	1020	Fri	426/00	USB	(AB)
S11a	4870	29-7	1955	Fri	371/00	USB	(MPJ)
S11a	11092	30-7	1540	Sat	563/00	USB	(AB)
S28	4625	4-7	0809	Mon	ZhUOZ 90166 KZOTOFINN 33310825	USB	(Priyom)
S28	4625	4-7	0812	Mon	ZhUOZ 50517 DAMFOLAD 75795956	USB	(Priyom)
S28	4625	4-7	1555	Mon	ZhUOZ 63665 DOLIVAN'Ye 03036994	USB	(Priyom)
S28	4625	4-7	1611	Mon	ZhUOZ 79828 BIMSOTAL 55675407	USB	(Priyom)
S28	4625	4-7	1705	Mon	ZhUOZ 74461 DZhUTOGOT 91480718	USB	(Priyom)
S28	9250	14-7	1009	Thu	Buzzer harmonic	USB	(AB/Danix)
S28	4625	14-7	2110	Thu	Buzzer marker //6998 kHz	USB	(AB)
S28	6998	14-7	2110	Thu	Buzzer marker //4625 kHz	USB	(AB)
S28	4625	18-7	0601	Mon	ZhUOZ 3134 PYENSION	USB	(Priyom)
S28	4625	18-7	1016	Mon	ZhUOZ 08146 KLYuVORAB 28946830	USB	(Priyom)
S28	4625	18-7	1130	Mon	ZhUOZ 07598 ANURIYa 58463848	USB	(Priyom)
S28	4625	18-7	1641	Mon	ZhUOZ 40219 BYeRYeT 25249276	USB	(Priyom)
S28	4625	18-7	1740	Mon	ZhUOZ 57707 GITOLIDS 76576170	USB	(Priyom)
S28	4625	20-7	0809	Wed	ZhUOZ 33491 LYeSODYeRN 10972675	USB	(Priyom)
S28	4625	20-7	0841	Wed	ZhUOZ 19944 LYeSNIK 48633474	USB	(Priyom)
S28	4625	20-7	0900	Wed	ZhUOZ 17660 BOBROFORD 31199008 Error in reading (sboj)	USB	(Priyom)
S28	4625	20-7	0902	Wed	ZhUOZ 37701 GITOChYeT 67481565	USB	(Priyom)
S28	4625	20-7	0908	Wed	ZhUOZ 40658 VOLHOVANIYe 88239344	USB	(Priyom)
S28	4625	20-7	0911	Wed	ZhUOZ 27858 LYeShchOFYeTR 91748537	USB	(Priyom)
S28	4625	20-7	0914	Wed	ZhUOZ 6151 CYeNTIM	USB	(Priyom)
S28	4625	20-7	0935	Wed	ZhUOZ 42075 KOROVIshchA 39119251	USB	(Priyom)
S28	4625	20-7	1032	Wed	ZhUOZ 56529 BANKOLIFT 52247806	USB	(Priyom)
S28	4625	20-7	1113	Wed	ZhUOZ 75695 ISSYeChYeNIYe 71866289	USB	(Priyom)
S28	4625	20-7	1115	Wed	ZhUOZ 92870 GITKRAN 70282554	USB	(Priyom)
S28	4625	20-7	1117	Wed	ZhUOZ 40946 BUYaNOFARSh 35992589	USB	(Priyom)
S28	4625	25-7	0928	Mon	ZhUOZ 71998 KUPON 27751919	USB	(Priyom)
S28	4625	25-7	1051	Mon	ZhUOZ 05315 ZYaTYeK 19991321	USB	(Priyom)
S28	4625	25-7	1323	Mon	ZhUOZ 95247 BRYZGALKA 94962709	USB	(Priyom)
S28	4625	25-7	1412	Mon	ZhUOZ 95914 ATOLLOVYJ 35795311	USB	(Priyom)
S28	4625	25-7	1550	Mon	ZhUOZ 89285 BAULOBYK 57577119 BUKVOED 40685547	USB	(Priyom)
S28	4625	28-7	0956	Thu	ZhUOZ 74945 ANUSOKLIK 92236768	USB	(Priyom)
S28	4625	28-7	0958	Thu	ZhUOZ 81856 KOLOMER 92800774	USB	(Priyom)
S28	4625	28-7	1000	Thu	ZhUOZ 47332 VYBROSKA 20869097	USB	(Priyom)
S28	4625	28-7	1002	Thu	ZhUOZ 91856 KOLOMER 92800784 (corrected repeat of 0958 UTC)	USB	(Priyom)
S28	4625	28-7	1232	Thu	ZhUOZ 69138 KARTING 82172419	USB	(Priyom)

S28	4625	28-7	1234	Thu	ZhUOZ 02215 ZABORChIK 84485597	USB	(Priyom)
S28	4625	28-7	1236	Thu	ZhUOZ 96383 KUSOCYeNT 68561920	USB	(Priyom)
S28	4625	28-7	1244	Thu	ZhUOZ 10444 DYuRALYuMINIJ 36415048	USB	(Priyom)
S30	3756	1-7	2030	Fri	SB7Z 'O6P Y8VM 6I2Zh 8CShchJ 27Shch' N1DU 53OB 78MV DEAY	USB	(Priyom)
S30	3756	2-7	1743	Sat	TZLM FY5E F61N 37CN MUDR 7VNSHch Zh7NZh YMA5 VTH3 AGDT	USB	(Priyom)
S30	3756	14-7	2112	Thu	Pip marker	USB	(AB)
S32	5473	1-7	1718	Fri	ROSA-64 DZhIGIT-46 RYeZINA-38 SLIVA-94 STUPA-32	USB	(Priyom)
S32	3828	1-7	1844	Fri	LANDYSh-74 FONTAN-34 RUZh'E-26 BIZON-64 PYeSOChNYJ-21 KARTA-11 DUBLYoR-68 PYeNZ-07 KURGAN-40	USB	(Priyom)
S32	3828	2-7	0010	Sat	STUPA-32 STAZhER-29 UTyoS-94 RU- Zh'E-26	USB	(Priyom)
S32	5473	2-7	1639	Sat	BIZON-64 KOVBOJ-39 LANDYSh-74 KURGAN-40 NYeVKA-26 ZASLONKA- 27 KARTA-11 OTPOR-89 PYeSOChNYJ-21 ShULER-60 STUPA-32 RYeZINA-38	USB	(Priyom)
S32	3828	14-7	2111	Thu	Squeaky Wheels marker	USB	(AB)
S5292	5292	14-7	2113	Thu	Marker D	USB	(AB)
UM10	3629	6-7	1325	Wed	10-mins net: SDXL	CW	(JPL-Sib)
UM10	3629	6-7	1555	Wed	10-mins net: SDXL	CW	(JPL-Sib)
UM10	3629	6-7	1828	Wed	10-mins net: SDXL	CW	(JPL-Sib)
UM10	3629	6-7	1856	Wed	10-mins net: SDXL	CW	(JPL-Sib)
UM10	3541	6-7	1858	Wed	10-mins net: HDNA	CW	(JPL-Sib)
UM10	3629	6-7	1920	Wed	10-mins net: SDXL	CW	(JPL-Sib)
UM10	3629	7-7	1355	Thu	10-mins net: SDXL	CW	(JPL-Sib)
UM10	3629	7-7	1750	Thu	10-mins net: SDXL	CW	(JPL-Sib)
UM10	3629	8-7	1456	Fri	10-mins net: SDXL	CW	(JPL-Sib)
UM10	3629	8-7	1553	Fri	10-mins net: SDXL	CW	(JPL-Sib)
UM10	3629	11-7	1555	Mon	10-mins net: SDXL	CW	(JPL-Sib)
UM10	3629	11-7	2027	Mon	10-mins net: SDXL	CW	(JPL-Sib)
UM10	3542	13-7	1650	Wed	10-mins net: HDNA //4116 kHz	CW	(JPL-Sib)
UM10	4116	13-7	1650	Wed	10-mins net: HDNA //3542 kHz. New frequency	CW	(JPL-Sib)
UVB3 3	12025	2-7	1145	Sat	VVV VVV VVV UVB33 UVB33 UVB33 132 132 132 ZZZZZ UWVOD ORBHV DBJAJ ... BSPSM RHTSN BLCZZ YYYYY 132 132 132 UVB33 UVB33 UVB33 K	PSK-63	(W2IBC)
UVB3 3	12025	2-7	1445	Sat	VVV VVV VVV UVB33 UVB33 UVB33 132 132 132 ZZZZZ UWVOD ORBHV DBJAJ ... BSPSM RHTSN BLCZZ YYYYY 132 132 132 UVB33 UVB33 UVB33 K	PSK-63	(W2IBC)
UVB3 3	12025	2-7	1453	Sat	VVV VVV VVV UVB33 UVB33 UVB33 132 132 132 ZZZZZ UWVOD ORBHV DBJAJ ... BSPSM RHTSN BLCZZ YYYYY 132 132 132 UVB33 UVB33 UVB33 K	CW	(W2IBC)
UVB3 3	6925	19-7	0330	Tue	VVV VVV VVV UVB33 UVB33 UVB33 233 233 233 ZZZZZ WJRW H MXSCW FUNRS TVGPM NFVUU GCCLK ... 233 233 233 UVB33 UVB33 UVB33 K	CW	(CS/WA4FH Y)
V07	13582	3-7	0700	Sun	512 512 512 000	USB	(AB- USA/Danix/ Dan)
V07	12182	3-7	0720	Sun	512 512 512 000	USB	(AB/Dan/D anix/qsr711)
V07	13582	10-7	0700	Sun	512 1 711 41 37085 31217 22153 ... 23332 17339 87318 000 000	USB	(AB- USA/Dan)
V07	12182	10-7	0720	Sun	512 1 711 41 37085 31217 22153 ... 23332 17339 87318 000 000	USB	(AB- USA/Danix/ Dan)

V07	10282	10-7	0740	Sun	512 1 711 41 37085 31217 22153 ... 23332 17339 87318 000 000	USB	(Dan)
V07	13582	17-7	0700	Sun	512 512 512 000	USB	(Danix/HFD)
V07	12182	17-7	0720	Sun	512 512 512 000	USB	(Danix/HFD)
V07	13582	24-7	0700	Sun	512 512 512 000	USB	(AB-USA/Danix-USA/Dan)
V07	12182	24-7	0720	Sun	512 512 512 000	USB	(AB-USA/Dan)
V07	13582	31-7	0700	Sun	512 1 544 87 07422 41162 33797 ... 08285 55517 02156 000 000	USB	(AB-USA/Danix/qsr711)
V07	10282	31-7	0720	Sun	512 1 544 87 07422 41162 33797 ... 08285 55517 02156 000 000	USB	(AB-USA/Danix/qsr711)
V07	12182	31-7	0720	Sun	512 1 544 87 07422 41162 33797 ... 08285 55517 02156 000 000	USB	(AB-USA/Danix/qsr711)
V13	9725	1-7	1200	Fri	New Star Broadcasting #4	AM	(AB-USA)
V13	9725	1-7	1300	Fri	New Star Broadcasting #4	AM	(AB-USA)
V13	9725	2-7	1200	Sat	New Star Broadcasting #4	AM	(AB-USA)
V13	9725	2-7	1300	Sat	New Star Broadcasting #4	AM	(AB-USA)
V13	9725	4-7	1200	Mon	New Star Broadcasting #4	AM	(AB-USA)
V13	9725	4-7	1300	Mon	New Star Broadcasting #4	AM	(AB-USA)
V13	9725	9-7	1200	Sat	New Star Broadcasting #4	AM	(AB-USA)
V13	9725	9-7	1300	Sat	New Star Broadcasting #4	AM	(AB-USA)
V13	9725	11-7	1200	Mon	New Star Broadcasting #4	AM	(AB-USA)
V13	9725	11-7	1300	Mon	New Star Broadcasting #4	AM	(AB-USA)
V13	9725	14-7	1200	Thu	New Star Broadcasting #4	AM	(AB-USA)
V13	9725	14-7	1300	Thu	New Star Broadcasting #4	AM	(AB-USA)
V13	11430	15-7	0500	Fri	New Star Broadcasting #4	AM	(AB-HK)
V13	11430	15-7	0600	Fri	New Star Broadcasting #4	AM	(AB-HK)
V13	11430	16-7	0600	Sat	New Star Broadcasting #4	AM	(AB-HK)
V13	9725	21-7	1200	Thu	New Star Broadcasting #4	AM	(AB-HK)
V13	9725	21-7	1300	Thu	New Star Broadcasting #4	AM	(AB-HK)
V13	9725	22-7	1200	Fri	New Star Broadcasting #4	AM	(AB-USA)
V13	9725	22-7	1300	Fri	New Star Broadcasting #4	AM	(AB-USA)
V13	11430	23-7	0600	Sat	New Star Broadcasting #4	AM	(AB-HK)
V13	15388	23-7	0700	Sat	New Star Broadcasting #3	AM	(AB-HK)
V13	15388	23-7	0800	Sat	New Star Broadcasting #3	AM	(AB-HK)
V13	9725	29-7	1200	Fri	New Star Broadcasting #4	AM	(AB-USA)
V13	9725	29-7	1300	Fri	New Star Broadcasting #4	AM	(AB-USA)
V13	9725	30-7	1200	Sat	New Star Broadcasting #4	AM	(AB-USA)
V13	9725	30-7	1300	Sat	New Star Broadcasting #4	AM	(AB-USA)
V15	3320	14-7	1545	Thu	N. Korean: "jigeumbuteo 27ho tamsadaewondeul-eul wihan wongyeogyoyugdaehag suhag bogs- eubgwajeleul allyeo deuli- gessseubnida", etc	AM	(news)
V24	5900	22-7	1600	Fri	i.p. 20525 88321 10190 76299 45147 44395 55207 08937 40031 12903 54638 86023 ...	AM	(MDK2-KOR)
V26	8073	14-7	1129	Thu	Voice callup. Male operator	USB	(JPL-HK)
V26	8073	16-7	1129	Sat	Voice callup. Male operator	USB	(JPL-HK)
V26	4243	16-7	1138	Sat	Voice callup //9054 kHz	USB	(JPL-HK)
V26	9054	16-7	1138	Sat	Voice callup //9054 kHz	USB	(JPL-HK)
V26	4283	19-7	1016	Tue	Messages in Chinese. Female opera- tor //7553 kHz	USB	(JPL-HK)
V26	7553	19-7	1016	Tue	Messages in Chinese. Female opera- tor //4283 kHz	USB	(JPL-HK)
V26	9054	19-7	2338	Tue	Voice callup. Male operator	USB	(JPL-HK)
V26	8073	20-7	0001	Wed	Voice callup. Male operator	USB	(JPL-HK)
V26	8073	20-7	1131	Wed	Voice callup. Male operator	USB	(JPL-HK)
V26	8073	21-7	1131	Thu	Chinese voice. Male operator	USB	(JPL-HK)

V26	8073	22-7	1131	Fri	Voice callup. Male operator	USB	(JPL-HK)
V26	4243	22-7	1205	Fri	Messages in Chinese. Female operator //9054 kHz	USB	(JPL-HK)
V26	9054	22-7	1205	Fri	Messages in Chinese. Female operator //4243 kHz	USB	(JPL-HK)
V26	8073	23-7	1130	Sat	Voice callup. Female operator	USB	(JPL-HK)
V26	8073	25-7	1131	Mon	Voice callup. Female operator	USB	(JPL-HK)
V26	4243	25-7	1208	Mon	Message in Chinese. Female operator //9054 kHz	USB	(JPL-HK)
V26	9054	25-7	1208	Mon	Message in Chinese. Female operator //4243 kHz	USB	(JPL-HK)
V26	8073	26-7	1131	Tue	Voice callup. Male operator	USB	(JPL-HK)
V26	8073	26-7	1154	Tue	Messages in Chinese. Male operator	USB	(JPL-HK)
V26	4243	26-7	1207	Tue	Messages in Chinese. Female operator //9054 kHz	USB	(JPL-HK)
V26	9054	26-7	1207	Tue	Messages in Chinese. Female operator //4243 kHz	USB	(JPL-HK)
V26	8073	27-7	1131	Wed	Voice callup. Male operator	USB	(JPL-HK)
V26	4243	27-7	1204	Wed	Messages in Chinese. Female operator //9054 kHz	USB	(JPL-HK)
V26	8073	27-7	1204	Wed	Messages in Chinese. Male operator	USB	(JPL-HK)
V26	9054	27-7	1204	Wed	Messages in Chinese. Female operator //4243 kHz	USB	(JPL-HK)
V28	3277	5-7	1230	Tue	Messages in Korean	USB	(BCL)
X06	13481	3-7	0706	Sun	Mazielka. Sequence: 452163	MFSK	(PUK)
X06	13452	4-7	0910	Mon	Mazielka. Sequence: 165324	MFSK	(PUK)
X06	10270	4-7	1543	Mon	Mazielka. Sequence: 532614	MFSK	(PUK)
X06	18206	5-7	0922	Tue	Mazielka. Sequence: 246531	MFSK	(PUK)
X06	16332	6-7	0610	Wed	Mazielka. Sequence: 1--6-- before M12. No MFSK but a carrier that lasts the length of a X06 sequence	CW	(Danix)
X06	13423	12-7	0815	Tue	Mazielka. Sequence: 421635	MFSK	(Danix)
X06	13420	12-7	0819	Tue	Mazielka. Sequence: 534216	MFSK	(Danix)
X06	9266	13-7	1919	Wed	Mazielka. Sequence: 61-6-3	MFSK	(Dan)
X06	10766	13-7	1920	Wed	Mazielka. Sequence: 61-6-3	MFSK	(Dan)
X06	12166	13-7	1923	Wed	Mazielka. Sequence: 61-6-3	MFSK	(Dan)
X06	12166	13-7	1925	Wed	Mazielka. Sequence: 61-6-3	MFSK	(Dan)
X06	14570	15-7	0825	Fri	Mazielka. Sequence: 324615	MFSK	(AAI)
X06	12177	18-7	0710	Mon	Mazielka. Sequence: 356412	MFSK	(AAI)
X06	12150	18-7	0802	Mon	Mazielka. Sequence: 256341	USB	(Danix)
X06	14570	18-7	0835	Mon	Mazielka. Sequence: 324615	MFSK	(AAI)
X06	14392	18-7	0837	Mon	Mazielka. Sequence: 532614	MFSK	(AAI)
X06	14631	18-7	0855	Mon	Mazielka. Sequence: 362154	MFSK	(AAI)
X06	12157	19-7	0826	Tue	Mazielka. Sequence: 165423	MFSK	(Danix)
X06	12149	19-7	0843	Tue	Mazielka. Sequence: 154263	MFSK	(Danix)
X06	13978	20-7	1117	Wed	Mazielka. Sequence: 215346	MFSK	(Priyom)
X06	13510	22-7	0509	Fri	Mazielka. Sequence: 216435	MFSK	(Danix)
X06	16045	27-7	0729	Wed	Mazielka. Sequence: 435621	MFSK	(Danix)
X06	14550	28-7	0811	Thu	Mazielka. Sequence: 153624	MFSK	(Danix)
X06b	18260	1-7	0623	Fri	Mazielka. Sequence: 123456	MFSK	(AAI)
X06b	8047	4-7	1700	Mon	Mazielka before M12. No MFSK but a carrier that lasts the length of a X06 sequence.	CW	(Danix)
X06b	15884	5-7	1817	Tue	Mazielka. Sequence: 1--6-- before XPA	MFSK	(Dan)
X06b	15884	5-7	1822	Tue	Mazielka. Sequence: 1--6-- before XPA	MFSK	(Dan)
X06b	8000	6-7	0847	Wed	Mazielka. Sequence: 1--6--	MFSK	(Danix)
X06b	12166	6-7	1855	Wed	Mazielka. Sequence: 1--6-- before E07a	MFSK	(Dan)
X06b	14384	7-7	1805	Thu	Mazielka. Sequence: 1--6-- before XPA2	MFSK	(Dan)
X06b	14984	7-7	1806	Thu	Mazielka. Sequence: 1--6-- before XPA2	MFSK	(Dan)
X06b	15884	7-7	1807	Thu	Mazielka. Sequence: 1--6-- before XPA2	MFSK	(Dan)

X06b	14384	7-7	1819	Thu	Mazielka. Sequence: 1--6-- before XPA2	MFSK	(Dan)
X06b	14984	7-7	1820	Thu	Mazielka. Sequence: 1--6-- before XPA2 //15884 kHz	MFSK	(Dan)
X06b	15884	7-7	1820	Thu	Mazielka. Sequence: 1--6-- before XPA2 //14984 kHz	MFSK	(Dan)
X06b	9064	9-7	0532	Sat	Mazielka. No MFSK but a carrier that lasts the length of a X06 sequence.	CW	(AB)
X06b	11409	9-7	0535	Sat	Mazielka. No MFSK but a carrier that lasts the length of a X06 sequence.	CW	(AB)
X06b	14384	12-7	1804	Tue	Mazielka. Sequence: 2--6-- //15884 kHz	MFSK	(Dan)
X06b	15884	12-7	1804	Tue	Mazielka. Sequence: 2--6-- //14384 kHz	MFSK	(Dan)
X06b	14984	12-7	1805	Tue	Mazielka. Sequence: 2--6--	MFSK	(Dan)
X06b	14384	12-7	1807	Tue	Mazielka. Sequence: 2--6--	MFSK	(Dan)
X06b	14384	12-7	1808	Tue	Mazielka. Sequence: 2--6-- //15884 kHz	MFSK	(Dan)
X06b	15884	12-7	1808	Tue	Mazielka. Sequence: 2--6-- //14384 kHz	MFSK	(Dan)
X06b	14984	12-7	1809	Tue	Mazielka. Sequence: 2--6--	MFSK	(Dan)
X06b	11435	14-7	1658	Thu	Mazielka before M12. No MFSK but a carrier that lasts the length of a X06 sequence.	CW	(Danix)
X06b	10943	14-7	1709	Thu	Mazielka. Sequence: 1--6--	MFSK	(AB)
X06b	14984	14-7	1814	Thu	Mazielka. Sequence: 1--6--	MFSK	(Dan)
X06b	15884	14-7	1815	Thu	Mazielka. Sequence: 1--6--	MFSK	(Dan)
X06b	14984	14-7	1816	Thu	Mazielka. Sequence: 1--6--	MFSK	(Dan)
X06b	15884	14-7	1817	Thu	Mazielka. Sequence: 1--6--	MFSK	(Dan)
X06b	15967	16-7	1928	Sat	Mazielka. Sequence: 1--6--	MFSK	(Dan)
X06b	15967	16-7	1939	Sat	Mazielka. Sequence: 1--6--	MFSK	(Dan)
X06b	12271	16-7	1941	Sat	Mazielka. Sequence: 1--6--	MFSK	(Dan)
X06b	13884	16-7	1942	Sat	Mazielka. Sequence: 1--6--	MFSK	(Dan)
X06b	15967	16-7	1942	Sat	Mazielka. Sequence: 1--6--	MFSK	(Dan)
X06b	14384	19-7	1815	Tue	Mazielka. Sequence 1--6-- before XPA2 on 14384//14984//15884 kHz	MFSK	(Dan)
X06b	14984	19-7	1815	Tue	Mazielka. Sequence 1--6-- before XPA2 on 14384//14984//15884 kHz	MFSK	(Dan)
X06b	15884	19-7	1815	Tue	Mazielka. Sequence 1--6-- before XPA2 on 14384//14984//15884 kHz	MFSK	(Dan)
X06b	14384	19-7	1823	Tue	Mazielka. Sequence 1--6-- before XPA2 on 14384//14984//15884 kHz	MFSK	(Dan)
X06b	14984	19-7	1823	Tue	Mazielka. Sequence 1--6-- before XPA2 on 14384//14984//15884 kHz	MFSK	(Dan)
X06b	15884	19-7	1823	Tue	Mazielka. Sequence 1--6-- before XPA2 on 14384//14984//15884 kHz	MFSK	(Dan)
X06b	12166	20-7	1839	Wed	Mazielka. Sequence: 1--6--	MFSK	(Dan)
X06b	12166	20-7	1854	Wed	Mazielka. Sequence: 1--6--	MFSK	(Dan)
X06b	9266	20-7	1855	Wed	Mazielka. Sequence: 1--6--	MFSK	(Dan)
X06b	10766	20-7	1857	Wed	Mazielka. Sequence: 1--6--	MFSK	(Dan)
X06b	12166	20-7	1859	Wed	Mazielka. Sequence: 1--6--	MFSK	(Dan)
X06b	12217	22-7	1956	Fri	Mazielka. Sequence: 1--6--	MFSK	(Dan)
X06b	13884	22-7	1957	Fri	Mazielka. Sequence: 1--6--	MFSK	(Dan)
X06b	12217	22-7	1959	Fri	Mazielka. Sequence: 1--6--	MFSK	(Dan)
X06b	13884	22-7	2000	Fri	Mazielka. Sequence: 1--6-- //15967 kHz	MFSK	(Dan)
X06b	15967	22-7	2000	Fri	Mazielka. Sequence: 1--6-- //13884 kHz	MFSK	(Dan)
X06b	12217	22-7	2002	Fri	Mazielka. Sequence: 1--6--	MFSK	(Dan)
X06b	13884	22-7	2003	Fri	Mazielka. Sequence: 1--6--	MFSK	(Dan)
X06b	15967	22-7	2003	Fri	Mazielka. Sequence: 1--6--	MFSK	(Dan)
X06b	15967	22-7	2005	Fri	Mazielka. Sequence: 1--6--	MFSK	(Dan)
X06b	15967	23-7	1959	Sat	Mazielka. Sequence: 1--6--	MFSK	(Dan)
X06b	12217	23-7	2007	Sat	Mazielka. Sequence: 1--6--	MFSK	(Dan)
X06b	13884	23-7	2008	Sat	Mazielka. Sequence: 1--6--	MFSK	(Dan)
X06b	15967	23-7	2009	Sat	Mazielka. Sequence: 1--6--	MFSK	(Dan)

X06b	12138	24-7	1947	Sun	Mazielka. Sequence: 1--6--	MFSK	(Dan)
X06b	13538	24-7	1949	Sun	Mazielka. Sequence: 1--6--	MFSK	(Dan)
X06b	14538	24-7	1951	Sun	Mazielka. Sequence: 1--6--	MFSK	(Dan)
X06b	14538	24-7	2002	Sun	Mazielka. Sequence: 1--6--	MFSK	(Dan)
X06b	12138	24-7	2005	Sun	Mazielka. Sequence: 1--6--	MFSK	(Dan)
X06b	14538	24-7	2007	Sun	Mazielka. Sequence: 1--6--	MFSK	(Dan)
X06b	14384	26-7	1821	Tue	Mazielka. Sequence: 1--6-- before XPA2	MFSK	(Dan)
X06b	14984	26-7	1822	Tue	Mazielka. Sequence: 1--6-- before XPA2	MFSK	(Dan)
X06b	15884	26-7	1822	Tue	Mazielka. Sequence: 1--6-- before XPA2	MFSK	(Dan)
X06b	13320	27-7	0810	Wed	Mazielka. Sequence: 1--6--	MFSK	(Danix)
X06b	12166	27-7	1818	Wed	Mazielka. Sequence: 1--6-- before E07	MFSK	(Dan)
X06b	10766	27-7	1819	Wed	Mazielka. Sequence: 1--6-- before E07	MFSK	(Dan)
X06b	14384	28-7	1806	Thu	Mazielka. Sequence: 1--6--	MFSK	(Dan)
X06b	14984	28-7	1808	Thu	Mazielka. Sequence: 1--6--	MFSK	(Dan)
X06b	14384	28-7	1810	Thu	Mazielka. Sequence: 1--6--	MFSK	(Dan)
X06b	14984	28-7	1811	Thu	Mazielka. Sequence: 1--6--	MFSK	(Dan)
X06b	15884	28-7	1842	Thu	Mazielka. Sequence: 1--6--	MFSK	(Dan)
X06b	15884	28-7	1845	Thu	Mazielka. Sequence: 1--6--	MFSK	(Dan)
XPA	11409	2-7	0600	Sat	456 1 08762 00197 23554 ... 47085 43218 25001	MFSK-20/10Bd	(AB)
XPA	13509	2-7	0620	Sat	456 1 08762 00197 23554 ... 47085 43218 25001	MFSK-20/10Bd	(AB)
XPA	14609	2-7	0640	Sat	456 1 08762 00197 23554 ... 47085 43218 25001	MFSK-20/10Bd	(AB)
XPA	10943	5-7	1730	Tue	922 922 922 000 03790 00001 00000 10140	MFSK-20/10Bd	(AB/MPJ/H FD)
XPA	10243	5-7	1750	Tue	922 922 922 000 03790 00001 00000 10140	MFSK-20/10Bd	(AB/HFD)
XPA	9243	5-7	1810	Tue	922 922 922 000 03790 00001 00000 10140	MFSK-20/10Bd	(AB/MPJ/H FD)
XPA	11409	6-7	0600	Wed	456 456 456 000 02995 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	13509	6-7	0620	Wed	456 456 456 000 02995 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	14609	6-7	0640	Wed	456 456 456 000 02995 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	10943	7-7	1730	Thu	922 922 922 000 07763 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	10243	7-7	1750	Thu	922 922 922 000 07763 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	9243	7-7	1810	Thu	922 922 922 000 07763 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	11409	9-7	0600	Sat	456 456 456 000 03906 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	13509	9-7	0620	Sat	456 456 456 000 03906 00001 00000 10140	MFSK-20/10Bd	(AB/HFD)
XPA	14609	9-7	0640	Sat	456 456 456 000 03906 00001 00000 10140	MFSK-20/10Bd	(AB/HFD)
XPA	10943	12-7	1730	Tue	922 1 07168 00153 23972 ... 73958 20151 55765	MFSK-20/10Bd	(AB/BvR/HF D)
XPA	10243	12-7	1750	Tue	922 1 07168 00153 23972 ... 73958 20151 55765	MFSK-20/10Bd	(AB)
XPA	9243	12-7	1810	Tue	922 1 07168 00153 23972 ... 73958 20151 55765	MFSK-20/10Bd	(AB/MPJ/Bv R)
XPA	11409	13-7	0600	Wed	456 1 05752 00213 52615 .. 10970 00275 17617	MFSK-20/10Bd	(AB)
XPA	13509	13-7	0620	Wed	456 1 05752 00213 52615 .. 10970 00275 17617	MFSK-20/10Bd	(AB)
XPA	14609	13-7	0640	Wed	456 1 05752 00213 52615 .. 10970 00275 17617	MFSK-20/10Bd	(AB)

XPA	10943	14-7	1730	Thu	922 1 07168 00153 23972 ... 73958 20151 55765	MFSK-20/10Bd	(AB)
XPA	10243	14-7	1750	Thu	922 1 07168 00153 23972 ... 73958 20151 55765	MFSK-20/10Bd	(AB)
XPA	9243	14-7	1810	Thu	922 1 07168 00153 23972 ... 73958 20151 55765	MFSK-20/10Bd	(AB)
XPA	11409	16-7	0600	Sat	456 1 05752 00213 52615 .. 10970 00275 17617	MFSK-20/10Bd	(AB)
XPA	13509	16-7	0620	Sat	456 1 05752 00213 52615 .. 10970 00275 17617	MFSK-20/10Bd	(AB)
XPA	14609	16-7	0640	Sat	456 1 05752 00213 52615 .. 10970 00275 17617	MFSK-20/10Bd	(AB)
XPA	10943	19-7	1730	Tue	922 922 922 000 08307 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	10243	19-7	1750	Tue	922 922 922 000 08307 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	9243	19-7	1810	Tue	922 922 922 000 08307 00001 00000 10140	MFSK-20/10Bd	(AB/MPJ)
XPA	11409	20-7	0600	Wed	456 1 05752 00213 52615 .. 10970 00275 17617	MFSK-20/10Bd	(AB)
XPA	13509	20-7	0620	Wed	456 1 05752 00213 52615 .. 10970 00275 17617	MFSK-20/10Bd	(AB)
XPA	14609	20-7	0640	Wed	456 1 05752 00213 52615 .. 10970 00275 17617	MFSK-20/10Bd	(AB)
XPA	10943	21-7	1730	Thu	922 922 922 000 07918 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	10243	21-7	1750	Thu	922 922 922 000 07918 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	9243	21-7	1810	Thu	922 922 922 000 07918 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	11409	23-7	0600	Sat	456 456 456 000 03097 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	13509	23-7	0620	Sat	456 456 456 000 03097 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	14609	23-7	0640	Sat	456 456 456 000 03097 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	10943	26-7	1730	Tue	922 1 05161 00113 99891 ... 03562 59640 33052	MFSK-20/10Bd	(AB)
XPA	10243	26-7	1750	Tue	922 1 05161 00113 99891 ... 03562 59640 33052	MFSK-20/10Bd	(AB/MPJ)
XPA	9243	26-7	1810	Tue	922 1 05161 00113 99891 ... 03562 59640 33052	MFSK-20/10Bd	(AB)
XPA	11409	27-7	0600	Wed	456 1 06704 00193 98661 ... 87788 81710 12374	MFSK-20/10Bd	(AB)
XPA	13509	27-7	0620	Wed	456 1 06704 00193 98661 ... 87788 81710 12374	MFSK-20/10Bd	(AB)
XPA	14609	27-7	0640	Wed	456 1 06704 00193 98661 ... 87788 81710 12374	MFSK-20/10Bd	(AB)
XPA	10943	28-7	1730	Thu	922 1 05161 00113 99891 ... 03562 59640 33052	MFSK-20/10Bd	(AB/MPJ)
XPA	10243	28-7	1750	Thu	922 1 05161 00113 99891 ... 03562 59640 33052	MFSK-20/10Bd	(AB/MPJ)
XPA	9243	28-7	1810	Thu	922 1 05161 00113 99891 ... 03562 59640 33052	MFSK-20/10Bd	(AB/MPJ)
XPA	11409	30-7	0600	Sat	456 1 06704 00193 98661 ... 87788 81710 12374	MFSK-20/10Bd	(AB)
XPA	13509	30-7	0620	Sat	456 1 06704 00193 98661 ... 87788 81710 12374	MFSK-20/10Bd	(AB)
XPA	14609	30-7	0640	Sat	456 1 06704 00193 98661 ... 87788 81710 12374	MFSK-20/10Bd	(AB)
XPA2	20173	1-7	0700	Fri	04967 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	18673	1-7	0720	Fri	04967 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	17473	1-7	0740	Fri	04967 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	15967	1-7	2100	Fri	08442 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	13884	1-7	2120	Fri	08442 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	12217	1-7	2140	Fri	08442 00001 00000 10140	MFSK-16/20Bd	(AB)

XPA2	15967	2-7	2100	Sat	08961 00001 00000 10140	MFSK-16/20Bd	(AB/HFD)
XPA2	13884	2-7	2120	Sat	08961 00001 00000 10140	MFSK-16/20Bd	(AB/HFD)
XPA2	12217	2-7	2140	Sat	08961 00001 00000 10140	MFSK-16/20Bd	(AB/HFD)
XPA2	14538	3-7	2100	Sun	01194 00000 00000 10040	MFSK-16/20Bd	(AB/HFD)
XPA2	13538	3-7	2120	Sun	01194 00000 00000 10040	MFSK-16/20Bd	(AB/HFD)
XPA2	12138	3-7	2140	Sun	01194 00000 00000 10040	MFSK-16/20Bd	(AB/HFD)
XPA2	20173	5-7	0700	Tue	05893 00157 41217 81769 78387 22762 ...	MFSK-16/20Bd	(AB)
XPA2	18673	5-7	0720	Tue	05893 00157 41217 81769 78387 22762 ...	MFSK-16/20Bd	(AB)
XPA2	17473	5-7	0740	Tue	05893 00157 41217 81769 78387 22762 ...	MFSK-16/20Bd	(AB)
XPA2	15884	5-7	1900	Tue	06382 00261 92510 ... 18525 96443 65154	MFSK-16/20Bd	(AB/Danix/ RL/MPJ/HF D)
XPA2	14984	5-7	1920	Tue	06382 00261 92510 ... 18525 96443 65154	MFSK-16/20Bd	(AB/Danix/ MPJ/HFD)
XPA2	14384	5-7	1940	Tue	06382 00261 92510 ... 18525 96443 65154	MFSK-16/20Bd	(AB/Danix/ MPJ/HFD)
XPA2	14538	5-7	2100	Tue	06399 00109 44517 ... 65037 41860 52001	MFSK-16/20Bd	(AB/Danix)
XPA2	13538	5-7	2120	Tue	06399 00109 44517 ... 65037 41860 52001	MFSK-16/20Bd	(AB/Danix)
XPA2	12138	5-7	2140	Tue	06399 00109 44517 ... 65037 41860 52001	MFSK-16/20Bd	(AB/Danix)
XPA2	12153	6-7	0840	Wed	2 msgs 04498 00062 25663 ... 28829 66786 02317 00000 00000 02904 00054 39983 ... 17525 81202 61255	MFSK-16/20Bd	(Danix)
XPA2	13439	6-7	0850	Wed	2 msgs 04498 00062 25663 ... 28829 66786 02317 00000 00000 02904 00054 39983 ... 17525 81202 61255	MFSK-16/20Bd	(Danix)
XPA2	15884	7-7	1900	Thu	06382 00261 92510 ... 18525 96443 65154	MFSK-16/20Bd	(AB/Dan)
XPA2	14984	7-7	1920	Thu	06382 00261 92510 ... 18525 96443 65154	MFSK-16/20Bd	(AB/Dan)
XPA2	14384	7-7	1940	Thu	06382 00261 92510 ... 18525 96443 65154	MFSK-16/20Bd	(AB/Dan)
XPA2	20173	8-7	0700	Fri	05893 00157 41217 81769 78387 22762 ...	MFSK-16/20Bd	(AB)
XPA2	18673	8-7	0720	Fri	05893 00157 41217 81769 78387 22762 ...	MFSK-16/20Bd	(AB)
XPA2	17473	8-7	0740	Fri	05893 00157 41217 81769 78387 22762 ...	MFSK-16/20Bd	(AB)
XPA2	15967	8-7	2100	Fri	01591 00001 00000 10140	MFSK-16/20Bd	(AB/Dan)
XPA2	13884	8-7	2120	Fri	01591 00001 00000 10140	MFSK-16/20Bd	(AB/Dan)
XPA2	12217	8-7	2140	Fri	01591 00001 00000 10140	MFSK-16/20Bd	(AB/Dan)
XPA2	15967	9-7	2100	Sat	06595 00001 00000 10140	MFSK-16/20Bd	(AB/Dan)
XPA2	13884	9-7	2120	Sat	06595 00001 00000 10140	MFSK-16/20Bd	(AB/Dan)
XPA2	12217	9-7	2140	Sat	06595 00001 00000 10140	MFSK-16/20Bd	(AB/Dan)
XPA2	14538	10-7	2100	Sun	06399 00109 44517 ... 65037 41860 52001	MFSK-16/20Bd	(AB/Dan)
XPA2	13538	10-7	2120	Sun	06399 00109 44517 ... 65037 41860 52001	MFSK-16/20Bd	(AB/Dan)
XPA2	12138	10-7	2140	Sun	06399 00109 44517 ... 65037 41860 52001	MFSK-16/20Bd	(AB/Dan)
XPA2	15884	12-7	1900	Tue	09123 00001 00000 10140	MFSK-16/20Bd	(AB/Dan)
XPA2	14984	12-7	1920	Tue	09123 00001 00000 10140	MFSK-16/20Bd	(AB/Dan)
XPA2	14384	12-7	1940	Tue	09123 00001 00000 10140	MFSK-16/20Bd	(AB/Dan)
XPA2	14538	12-7	2100	Tue	06399 00109 44517 ... 65037 41860 52001	MFSK-16/20Bd	(AB/Dan)
XPA2	13538	12-7	2120	Tue	06399 00109 44517 ... 65037 41860 52001	MFSK-16/20Bd	(AB/Dan)
XPA2	12138	12-7	2140	Tue	06399 00109 44517 ... 65037 41860 52001	MFSK-16/20Bd	(AB/Dan)
XPA2	15884	14-7	1900	Thu	02983 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ/D an)

XPA2	14984	14-7	1920	Thu	02983 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ/D an)
XPA2	14384	14-7	1940	Thu	02983 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	20173	15-7	0700	Fri	06101 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	18673	15-7	0720	Fri	06101 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	17473	15-7	0740	Fri	06101 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	15967	15-7	2100	Fri	00651 00057 61649 ... 62747 37732 11472	MFSK-16/20Bd	(AB/Dan)
XPA2	13884	15-7	2120	Fri	00651 00057 61649 ... 62747 37732 11472	MFSK-16/20Bd	(AB/Dan)
XPA2	12217	15-7	2140	Fri	00651 00057 61649 ... 62747 37732 11472	MFSK-16/20Bd	(AB/Dan)
XPA2	15967	16-7	2100	Sat	00651 00057 61649 ... 62747 37732 11472	MFSK-16/20Bd	(AB/Dan)
XPA2	13884	16-7	2120	Sat	00651 00057 61649 ... 62747 37732 11472	MFSK-16/20Bd	(AB/Dan)
XPA2	12217	16-7	2140	Sat	00651 00057 61649 ... 62747 37732 11472	MFSK-16/20Bd	(AB/Dan)
XPA2	14538	17-7	2100	Sun	01423 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	13538	17-7	2120	Sun	01423 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	12138	17-7	2140	Sun	01423 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	20173	19-7	0700	Tue	Message	MFSK-16/20Bd	(HFD)
XPA2	18673	19-7	0720	Tue	Message	MFSK-16/20Bd	(HFD)
XPA2	17473	19-7	0740	Tue	Message	MFSK-16/20Bd	(HFD)
XPA2	15884	19-7	1900	Tue	07416 00219 77095 ... 86327 34617 11046	MFSK-16/20Bd	(AB/MPJ/D an)
XPA2	14984	19-7	1920	Tue	07416 00219 77095 ... 86327 34617 11046	MFSK-16/20Bd	(AB/Dan)
XPA2	14384	19-7	1940	Tue	07416 00219 77095 ... 86327 34617 11046	MFSK-16/20Bd	(AB/MPJ/D an)
XPA2	14538	19-7	2100	Tue	07975 00097 39040 ... 98431 66483 56326	MFSK-16/20Bd	(AB)
XPA2	13538	19-7	2120	Tue	07975 00097 39040 ... 98431 66483 56326	MFSK-16/20Bd	(AB)
XPA2	12138	19-7	2140	Tue	07975 00097 39040 ... 98431 66483 56326	MFSK-16/20Bd	(AB)
XPA2	15884	21-7	1900	Thu	07416 00219 77095 ... 86327 34617 11046	MFSK-16/20Bd	(AB/MPJ/D an)
XPA2	14984	21-7	1920	Thu	07416 00219 77095 ... 86327 34617 11046	MFSK-16/20Bd	(AB/MPJ/D an)
XPA2	14384	21-7	1940	Thu	07416 00219 77095 ... 86327 34617 11046	MFSK-16/20Bd	(AB/MPJ/D an)
XPA2	15967	22-7	2100	Fri	03816 00001 00000 10140	MFSK-16/20Bd	(AB/Dan)
XPA2	13884	22-7	2120	Fri	03816 00001 00000 10140	MFSK-16/20Bd	(AB/Dan)
XPA2	12217	22-7	2140	Fri	03816 00001 00000 10140	MFSK-16/20Bd	(AB/Dan)
XPA2	15967	23-7	2100	Sat	03152 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	13884	23-7	2120	Sat	03152 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	12217	23-7	2140	Sat	03152 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14538	24-7	2100	Sun	07975 00097 39040 ... 98431 66483 56326	MFSK-16/20Bd	(AB/Dan)
XPA2	13538	24-7	2120	Sun	07975 00097 39040 ... 98431 66483 56326	MFSK-16/20Bd	(AB/Dan)
XPA2	12138	24-7	2140	Sun	07975 00097 39040 ... 98431 66483 56326	MFSK-16/20Bd	(AB/Dan)
XPA2	15884	26-7	1900	Tue	04357 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ/D an)
XPA2	14984	26-7	1920	Tue	04357 00001 00000 10140	MFSK-16/20Bd	(AB/Dan)
XPA2	14384	26-7	1940	Tue	04357 00001 00000 10140	MFSK-16/20Bd	(AB/Dan)
XPA2	14538	26-7	2100	Tue	02311 00001 00000 10140	MFSK-16/20Bd	(AB/Dan)
XPA2	13538	26-7	2120	Tue	02311 00001 00000 10140	MFSK-16/20Bd	(AB/Dan)
XPA2	12138	26-7	2140	Tue	02311 00001 00000 10140	MFSK-16/20Bd	(AB/Dan)
XPA2	15884	28-7	1900	Thu	04968 00001 00000 10040	MFSK-16/20Bd	(AB/Dan)
XPA2	14984	28-7	1920	Thu	04968 00001 00000 10040	MFSK-16/20Bd	(AB/Dan)
XPA2	14384	28-7	1940	Thu	04968 00001 00000 10040	MFSK-16/20Bd	(AB/MPJ/D an)
XPA2	20173	29-7	0700	Fri	05524 00001 00000 10140	MFSK-16/20Bd	(AB)

XPA2	18673	29-7	0720	Fri	05524 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	17473	29-7	0740	Fri	05524 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	15967	29-7	2100	Fri	05783 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	13884	29-7	2120	Fri	05783 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	12217	29-7	2140	Fri	05783 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	15967	30-7	2100	Sat	05560 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	13884	30-7	2120	Sat	05560 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	12217	30-7	2140	Sat	05560 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14538	31-7	2100	Sun	07010 00001 00000 10140	MFSK-16/20Bd	(AB/Dan)
XPA2	13538	31-7	2120	Sun	07010 00001 00000 10140	MFSK-16/20Bd	(AB/Dan)
XPA2	12138	31-7	2140	Sun	07010 00001 00000 10140	MFSK-16/20Bd	(AB/Dan)
XSL	4153	8-7	1201	Fri	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-KOR)
XSL	4231.5	8-7	1201	Fri	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-KOR)
XSL	4291	8-7	1201	Fri	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-KOR)
XSL	6250	8-7	1203	Fri	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-KOR)
XSL	6417	8-7	1203	Fri	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-KOR)
XSL	6445	8-7	1203	Fri	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-KOR)
XSL	8313	8-7	1205	Fri	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-KOR)
XSL	8588	8-7	1205	Fri	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-KOR)
XSL	8703.5	8-7	1205	Fri	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-KOR)
XSL	4153	21-7	1213	Thu	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-KOR)
XSL	4231.5	21-7	1213	Thu	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-KOR)
XSL	4291	21-7	1213	Thu	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-KOR)
XSL	6250	21-7	1213	Thu	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-KOR)
XSL	6417	21-7	1213	Thu	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-KOR)
XSL	6445	21-7	1213	Thu	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-KOR)
XSL	8313	21-7	1213	Thu	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-KOR)
XSL	8588	21-7	1213	Thu	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-KOR)
XSL	8703.5	21-7	1213	Thu	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-KOR)

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AB-ISR	Ary Boender via remote rx in Israel	MCO	Mike Chace-Ortiz, PA, USA
AB-KOR	Ary Boender via remote rx South Korea	MDK2	MDK2
AB-USA	Ary Boender via remote rx USA	MDK2-KOR	MDK2- via remote rx S. Korea
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Danix	Danix111, Poland	qsr711-USA	QSR711 via remote rx USA
Danix-RUS	Danix via remote rx Russia	RL	Bob Landolpho
Danix-USA	Danix via remote rx USA	RR2	Rich Ray, IL, USA
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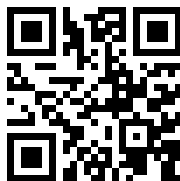
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7269 76329 74698 76857 98678 27601 56701 57601 73648 1
591 87364 87265 96710 27638 12673 84769 28743 98127 5
63298 75698 27465 87326 49876 28376 81273 98615 81
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743 98798 98754 98754 98754 98754 29867 67543 67986 86
76 87698 69876 87698 69876 87612 12341 34867 86798 652
867 43298 65656 56756 56123 32143 14321 32143 14321 321
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