

670	27364	92836	09428	61208	74982	36498	82764	81276	07
986	40932	70987	32123	49817	26346	81287	65491	87364	81
721	75654	55656	12737	72727	72727	91918	63473	67867	70
723	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
58	63298	75698	27465	87326	49876	28376	81273	98615	62
667	87432	74328	78674	29867	32867	67867	86786	43286	432
667	68768	68763	34234	34238	68768	62342	48273	48768	234
936	98432	32432	86743	43286	43286	43286	43286	43286	432
743	86743	86743	39867	32867	86743	43286	43286	43243	867
741	86743	86743	86743	86743	86743	86743	86743	86743	435
743	98798	98754	98754	98754	98754	29867	67543	67986	867
176	87698	69876	87698	69876	87612	12341	34867	86798	632
667	43298	65656	56756	56123	32143	14321	32143	14321	321
587	92787	58765	76587	58765	76587	58765	76587	58756	765
587	92787	58765	76587	58765	76587	58765	76587	58756	765

Numbers & Oddities

a.k.a. The Spooks Newsletter

Edition #235, April 2017

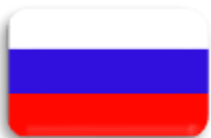
Editor: Ary Boender email: udxf@udxf.nl

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.

VOICE STATIONS



E06

15645/17470 kHz, 06-04/07-04/21-04, 0500/0600 UTC

951 842 106

69408 34184 91092 17084 71834 19592 43017 94315 01456 14462
11258 05248 06240 96308 46734 96954 51924 38123 10966 34821
29378 88962 97745 05362 33948 14395 54128 14923 27703 51499
74175 52146 20533 58102 63891 06400 31032 60940 00784 59350
13106 32439 36501 91858 59230 50784 15960 73413 16323 22994
11426 26249 75134 75653 94965 81381 19125 43024 97717 68703
43739 07193 29423 08368 82040 69574 56633 95618 97621 61219
63063 56265 30741 13256 40499 94996 08622 56118 83714 63704
55845 13268 87829 42026 65776 02494 71544 47268 18973 71669
74694 55923 59492 24066 03554 23949 65053 12903 22335 38012
71980 09821 14317 14864 40874 76970
842 106 00000

5186 kHz, 06-04, 2030 UTC

891 149 52

12265 10965 47839 38654 84677 93453 72217 84393 04673 97564
01824 75643 84221 95647 92112 94543 76577 43435 47322 84232
95674 87344 57438 45763 49325 57438 92190 96785 21244 05674
01765 76354 83645 21234 97564 82133 07564 83234 75312 71211
05674 65374 67321 94884 23483 82521 41212 57333 85331 53234
05124 95732
149 52 00000

5197 kHz, 07-04, 2130 UTC

634 149 52

12265 10965 47839 38654 84677 93453 72217 84393 04673 97564
01824 75643 84221 95647 92112 94543 76577 43435 47322 84232
95674 87344 57438 45763 49325 57438 92190 96785 21244 05674
01765 76354 83645 21234 97564 82133 07564 83234 75312 71211
05674 65374 67321 94884 23483 82521 41212 57333 85331 53234
05124 95732
149 52 00000

17437/15626 kHz, 15-04/16-06, 1100/1200 UTC. E06 instead of F06.

832 759 60

10749 89081 91903 40530 77816 73696 56196 63673 15964 30177
79902 82228 22304 55236 51987 95364 45139 74735 39281 89850
92411 87264 79425 42949 60291 05753 45244 73212 63049 79208
18642 25711 83657 39742 72861 55023 88800 82824 40157 20359
33433 10755 91530 12881 23602 80566 19139 20359 47857 62563
71487 61484 26769 72938 73380 33020 39567 96201 49833 83660
759 60 00000

5197 kHz, 21-04, 2130 UTC, error.

634 634 634 00000; stops, then at 2133 UTC:

634 149 52

12265 10965 47839 38654 84677 93453 72217 84393 04673 97564

01824 75643 84221 95647 92112 94543 76577 43435 47322 84232

95674 87344 57438 45763 49325 57438 92190 96785 21244 05674

01765 76354 83645 21234 97564 82133 07564 83234 75312 71211

05674 65374 67321 94884 23483 82521 41212 57333 85331 53234

05124 95732

149 52 00000



E07

9064/10264/11464 kHz, 01-04/02-04, 0600/0620/0640 UTC

024 024 024 1 289 49 289 49

72698 65165 52647 53840 36688 32978 63545 51340 24915 62275

31046 11647 02711 11569 93420 66954 99447 93211 09413 66426

22767 91844 91635 52836 50974 66473 52202 93351 18408 89512

75667 82211 19865 78058 93879 24478 52206 12426 18999 48477

27694 72686 63202 18586 95182 72191 02621 48799 40553

000 000

14603/13403/12103 kHz, 02-04, 1700/1720/1740 UTC

641 641 641 1 866 83 866 83

36440 83922 63930 65205 84051 54883 72251 77059 11344 14483

24061 85947 91278 21832 44472 03019 96037 00701 41052 08681

55879 86770 10585 38264 38493 41772 36960 28844 23503 17522

17923 08262 41997 85354 01539 10117 84149 05337 20320 24616

27283 14421 24960 58888 86544 71187 70154 55962 97143 40888

07909 35715 57718 58262 81652 28928 46440 99456 12826 47734

84732 46196 28638 62112 13093 55244 44783 48712 23257 31846

39304 58129 60937 14148 69509 88671 85569 07521 27832 18998

88345 46673 69807

000 000

9387/7526/5884 kHz, 06-04/13-04, 2010/2030/2050 UTC

358 358 358 1 984 68 984 68

09579 38471 93064 47880 98342 94248 03461 07982 40088 58625

72751 10861 81854 35252 61529 06920 19174 07391 19521 21494

03114 81409 49341 14791 16665 81013 82172 42830 13771 95703

24265 45035 62500 42929 51259 25338 18458 22780 52274 72772

66369 04147 77241 55533 83516 66139 56686 29062 71298 34975

23663 40690 85628 85861 20806 75426 27341 87343 77644 33825

86381 54704 57850 94544 12273 66114 33695 30321

000 000

9064/10264/11464 kHz, 15-04/16-04, 0600/0620/0640 UTC

024 024 024 1 310 18 310 18

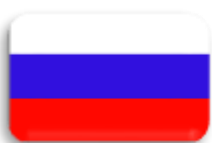
65928 90935 33261 69857 08703 46640 40846 72308 26844 52071

39790 49856 42583 73496 58963 38194 22564 82529

000 000

20574/19074/17474 kHz, 18-04/21-04, 1100/1120/1140 UTC

504 504 504 1 861 117 861 117
61839 68622 04148 07611 84266 52855 76475 91579 76732 90043
30041 05530 23542 88654 65066 64675 37365 53990 94785 25193
44072 10398 71766 65433 35010 01309 44021 94365 73462 81184
59992 01599 88725 82355 22758 86639 27767 40614 29521 84953
09258 95892 50781 85873 54770 30495 65338 90566 75556 74761
50813 75667 95678 01725 25819 58099 77564 03528 68657 39378
79765 93563 26345 40584 06475 41328 55670 68719 14589 53496
65392 54979 33819 07492 23773 73325 63964 37315 74438 53119
14257 75132 13196 09103 04500 54478 94914 34058 49647 49281
33738 12347 49821 92318 08457 33759 64187 84316 37991 08539
14411 97087 30574 90805 58188 07123 05026 84728 09376 61012
34084 48630 20216 77788 61006 22684 01683
000 000



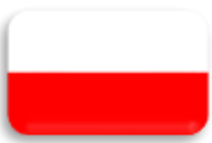
E07a

8144/6944/5744 kHz, 2000/2020/2040 UTC

197 197 197 1 33420 928 49 928 49
82616 15473 00498 61918 65505 95754 09418 23550 00401 38339
27305 93615 91570 12607 83842 79411 86654 30405 98310 77662
24127 89110 68809 90314 36459 07467 41718 88858 43816 54492
11054 49107 63750 70454 14465 36697 62316 74507 49587 30401
41970 78124 79182 72308 61105 40110 80388 83504 80775
000 000

6788/7488/8188 kHz, 27-04, 0430/0450/0510 UTC

741 741 741 1 33420 928 49 928 49
82616 15473 00498 61918 65505 95754 09418 23550 00401 38339
27305 93615 91570 12607 83842 79411 86654 30405 98310 77662
24127 89110 68809 90314 36459 07467 41718 88858 43816 54492
11054 49107 63750 70454 14465 36697 62316 74507 49587 30401
41970 78124 79182 72308 61105 40110 80388 83504 80775
000 000



E11a

7317 kHz, 03-04/06-04, 0530 UTC

641/35 Attention
96189 56117 12114 86273 78418 07707 41695 45008 93993 71058
85308 10224 17195 70628 95032 09894 77901 43992 90659 70155
76422 15958 81130 62611 26954 36977 33955 07893 65498 49587
69876 89087 20755 29194 06161
Attention, rpt msg, out

6804 kHz, 03-04/06-05, 0820 UTC

431/32 Attention

23948 67612 16782 64580 22793 77145 26659 06487 70346 14500
56123 53627 77194 39285 29717 06789 59080 05440 45742 07818
45770 57272 55320 62771 37555 81672 58354 36545 29214 28992
85136 36045

Attention, rpt msg, out

9399 kHz, 03-04/05-04, 0900 UTC

530/37 Attention

01945 81522 60749 79010 48313 52879 17695 76998 35130 46147
12406 82834 60382 07169 42539 39147 86566 18526 01692 10155
14931 12362 50718 91603 39503 77325 54832 81990 64800 90041
67666 48127 71104 22523 03646 33202 01621

Attention, rpt msg, out

20286 kHz, 03-04/07-04, 1225 UTC

520/30 Attention

21034 09044 96741 67884 22236 54893 91818 72136 95682 70399
80766 70305 40910 94637 92686 39778 50777 45797 06478 78044
91599 88153 38221 18968 72096 37127 81207 99197 03443 05982

Attention, rpt msg, out

10800 kHz, 04-04/06-04, 0645 UTC

512/40 Attention

55792 54215 84719 23159 03224 28991 04161 77903 53644 18782
52059 63352 62077 69386 39148 55765 72133 68948 97981 04175
48777 64311 09738 42996 76215 48945 75081 80382 71712 82270
11098 95198 06528 91277 63811 90071 29977 13769 77361 09446

Attention, rpt msg, out

14575 kHz, 04-04/06-04, 0745 UTC

334/36 Attention

70590 77011 98101 83530 09964 86484 11680 62656 65383 70502
87584 16689 21054 39519 94816 76964 65729 57683 35761 48131
18926 79557 29056 50855 05684 43103 35034 46822 48822 02932
97529 57098 28650 91198 72158 80633

Attention, rpt msg, out

14769 kHz, 06-04/08-04, 0710 UTC

497/32 Attention

11476 85166 23168 85832 77425 99162 21875 04872 95370 86986
73439 64049 37029 26141 00026 26736 17977 02496 67436 70687
43175 72872 51150 81914 48126 11354 25154 27179 06394 00413
62216 14185

Attention, rpt msg, out

8186 kHz, 08-04, 2005 UTC

367/33 Attention

41576 21163 96052 39320 18017 47150 55024 18694 85142 73566
92049 90871 14449 22748 32918 69725 02577 15685 63110 89265
97741 63733 11327 90040 12985 38578 06147 10560 51522 14877
80123 35147 68406

Attention, rpt msg, out

13873 kHz, 09-04, 1650 UTC

924/39 Attention

61596 19680 32790 87141 64784 36266 34358 97704 88646 52769
26426 56859 68669 01654 63991 03851 80091 18820 28712 91916
45780 72990 13317 33815 54792 80111 88008 79904 15827 40251
02710 75407 10905 78441 80292 38714 05370 37192 35834

Attention, rpt msg, out

12530 kHz, 05-04, 0820 UTC

131/34 Attention

98289 46065 41453 18502 38070 24375 28594 14049 38093 22599
32666 50528 28875 43538 27014 07824 62683 53902 25578 98322
37550 46889 59761 55389 90244 36770 77799 00652 36578 97789
15969 01347 13239 80139

Attention, rpt msg, out

10213 kHz, 17-04, 0745 UTC

268/35 Attention

14011 28334 31768 93380 17194 76253 75807 69374 27338 83454
89781 83076 26125 96886 06813 71128 96225 49093 03892 13448
90731 61209 75848 25344 93863 95769 78736 36435 58674 31495
71302 86874 06583

Attention, rpt msg, out. Sends only 33 groups vs the announced 35

13470 kHz, 17-04/23-04, 1745 UTC

248/31 Attention

06195 77773 80389 11444 44119 76565 05852 66398 05841 73985
21763 02864 08664 22503 58656 23781 47870 79360 03646 48123
28933 90121 46966 46293 84819 36555 25025 19406 23032 93657
89856

Attention, rpt msg, out

9963 kHz, 18-04/21-03, 0710 UTC

636/34 Attention

69190 37902 16466 73114 19257 30901 61520 12951 14958 27504
51867 45284 83060 76709 02735 14142 16352 38645 29015 61931
29193 80248 30258 06356 06367 59590 18230 82262 93889 59151
92890 08869 10129 54391

Attention, rpt msg, out

7840 kHz, 18-04/21-03, 1000 UTC

305/25 Attention

04083 62361 40271 44071 16823 00788 48059 80376 64399 20007
30974 73113 91639 48723 29925 62184 16452 74041 91324 79923
16711 74288 70593 15727 82182

Attention, rpt msg, out

13046 kHz, 18-04/22-04, 1345 UTC

912/39 Attention

20968 77116 44480 87338 85732 74182 53557 35943 60110 09111
03044 21417 56426 13025 13242 90627 64269 79798 60552 06968
83853 54097 75660 73560 10601 54559 45239 83161 60719 00194
80266 74699 25854 34637 71156 03619 74516 09049 87961

Attention, rpt msg, out

6397 kHz, 18-04/23-04, 1605 UTC

236/32 Attention

28787 98841 80907 63908 55262 36775 58758 04428 04409 51283
42220 45137 13872 20972 76935 11670 85128 56132 59787 57375
84795 07934 49958 07061 27853 82013 47754 80974 91333 10985
48591 98884

Attention, rpt msg, out

5844 kHz, 19-04/22-04, 1730 UTC

408/40 Attention

27704 73938 25261 11763 08910 25539 94497 69839 49967 64634
25738 79979 96019 89347 55417 16637 29979 52506 98049 39501
27475 61811 57265 13502 46822 81113 16801 37873 01174 58322
08712 98891 28384 78883 60322 37818 32641 12054 72592 68421

Attention, rpt msg, out

12202 kHz, 24-04/28-04, 0600 UTC

181/33 Attention

51477 48654 18596 97054 16342 11210 39543 02190 53130 81527
02379 82973 48516 13889 40989 97996 24872 81843 91402 25281
12909 74938 90306 01899 77288 05975 72597 20376 09462 91112
44671 47748 64137

Attention, rpt msg, out

8102 kHz, 25-04, 1045 UTC

579/35 Attention

06234 34316 86058 40466 85600 78858 82811 22132 47111 93511
38359 72915 11861 42814 24541 42360 06765 62023 40114 82146
07098 72278 24235 63341 64512 43022 65113 77390 57850 83961
54751 49400 10546 07643 88530

Attention, rpt msg, out

7727 kHz, 25-04/26-04, 1205 UTC

465/31 Attention

10266 48718 15400 50185 52893 86219 24317 81980 32177 34157
66210 51785 81491 32104 24754 88980 22601 71535 13853 47194
09110 78109 49462 84325 42527 48605 20054 57036 62294 07245
99863

Attention, rpt msg, out

7377 kHz, 28-04, 2000 UTC

579/35 Attention

06234 34316 86058 40466 85600 78858 82811 22132 47111 93511
38359 72915 11861 42814 24541 42360 06765 62023 40114 82146
07098 72278 24235 63341 64512 43022 65113 77390 57850 93961
54751 49400 10546 07643 88530

Attention, rpt msg, out



E17z

14260/12930 kHz, 06-04/13-04, 0800/0810 UTC

674 980 5 88620 58069 61732 47537 54470 980 5 00000

14260/12930 kHz, 20-04/27-04, 0800/0810 UTC

674 908 5 28548 59014 32424 75078 97520 908 5 00000



E25

6140 kHz, 03-04, 0745 UTC

250 250 250

Message, message, message

2642 6080 8410 4416 1145 6014 6462 8410

Rebeat, rebat, rebat

2642 6080 8410 4416 1145 6014 6462 8410

End of Message\End of Transmission

6140 kHz, 11-04, 0819 UTC

Windows 7 logon sound

111 111 111 111 111 111 1

6140 kHz, 11-04, 0900 UTC

Windows 7 logon sound

111 111 111 111 111 111 111 111

Message, message, message

1213 1310 1011 0143 0105 5534 5842 9542 3662 6762 1310

Rebeat, rebat, rebat

1213 1310 1011 0143 0105 5534 5842 9542 3662 6762 1310

End of message. End of transmission

6140 kHz, 11-04, 0915 UTC

Windows sounds

950 950 950 950 950 950 950 950

Message, message, message

1001 7543

950 950 950 950 950 950 950 950

Message, message, message

1001 7543 6410 8367 9259 6143 9682 2936 9561 6410

Rebeat, rebat, rebat

1001 7543 6410 8367 9259 6143 9682 2936 9561 6410

End of message. End of transmission

Windows 7 shutdown sound

6140 kHz, 12-04, 0945 UTC

350

Message, message, message

6273 6530 1001 2350 5460 6551 0703 1209 9876 6530

Rebeat, rebate, rebate

6273 6530 1001 2350 5460 6551 0703 1209 9876 6530

End of message. End of transmission.

6807 kHz, 26-04/27-04, 0930 UTC

273/35 Attention

44779 73524 73702 04364 00337 04357 84912 31332 08946 48519

87050 87585 41138 92763 93836 45628 77248 74796 81223 11596

57027 25581 16306 66054 11418 33457 49493 97328 75375 97647

86915 64718 99720 49309 08091

Attention, rpt msg, out

10448 kHz, 26-04, 1625 UTC

978/35 Attention

84420 87992 64589 78397 69146 70522 02778 80988 89455 15253

54147 52989 70514 48334 51849 76917 36948 10155 04305 98902

18896 05440 12443 15854 19910 05029 92729 67627 38731 15282

02839 07764 33555 32964 34409

Attention, rpt msg, out

10213 kHz, 26-04, 1705 UTC

392/37 Attention

27386 77697 60283 79434 68402 51968 12847 85180 73630 74923

74043 84276 14728 61075 48360 23439 52817 85182 20222 62082

37116 38333 67937 01798 29635 28480 76736 57317 77349 24078

51099 21006 43467 47779 13904 36288 76711

Attention, rpt msg, out



G06

5934 kHz, 13-04, 1828 UTC

5442 kHz, 14-04, 1929 UTC

5934 kHz, 27-04, 1830 UTC

579 149 52

12265 10965 47839 38654 84677 93453 72217 84393 04673 97564

01824 75643 84221 95647 92112 94543 76577 43435 47322 84232

95674 87344 57438 45763 49325 57438 92190 96785 21244 05674

01765 76354 83645 21234 97564 82133 07564 83234 75312 71211

05674 65374 67321 94884 23483 82521 41212 57333 85331 53234

05124 95732

149 52 00000

Windows shut down sound heard on the 27th



S06

9463/7353/12129/10846 kHz, 04-04, 1000/1030/1230/1300 UTC

480 591 40

34507 52090 24544 08172 34242 12897 44405 90742 88350 16349
96209 52957 46195 69442 67819 76785 19672 16034 48159 48597
13982 31355 28220 76863 98143 60279 90337 71635 06269 35975
25259 82385 32074 31883 76448 05336 74694 70217 45945 94752
591 40 00000

Note:

The 1230 UTC transmission cut off after the tenth group. Came back, cut off again and restarted.

9463/7353/12129/10846 kHz, 11-04, 1000/1030/1230/1300 UTC

480 215 43

02603 75046 63126 93200 05567 33184 27254 97132 66210 05386
26587 61794 94171 51830 16588 53845 27434 80054 52460 60498
55954 66529 57799 29559 17506 13724 12502 07085 95026 39742
66180 99221 99945 62554 78683 21360 93558 03133 92306 47712
10558 06941 43904
215 43 00000

16318 kHz, 13-04, 0930 UTC

842 605 39

38807 28458 67304 40200 51540 35262 77475 74064 47142 00819
23749 01680 85507 89319 25682 88880 11027 73760 78515 38103
42104 52300 78671 34667 96327 42828 40380 48624 93460 66701
58099 65611 03464 57575 94419 45146 31711 56273 98151
605 39 00000

19078/16318 kHz, 21-04, 0830/0930 kHz

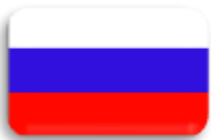
842 971 40

68885 49844 67893 94796 49568 34613 90210 67242 08591 26091
41433 52592 81830 26200 18849 60644 10048 22601 55071 01013
49106 08558 61117 27306 34594 74776 29364 70610 43022 84156
51039 45740 16793 65386 27965 28670 45128 86329 83215 28599
971 40 00000

19078/16318 kHz, 28-04, 0830/0930 kHz

842 305 41

38690 74414 30329 74227 29630 82614 34444 88409 58726 69693
31237 46452 54752 56145 81349 17444 67627 88916 81215 67034
17956 07812 88817 54933 28289 20585 92891 49703 40820 10155
42782 46766 51195 22397 81123 00578 13117 07934 46544 06899
93444
305 41 00000



S06c

9933 kHz, 08-04, 1103 UTC, i.p.	11212
6123/8171kHz, 18-04, 1005 UTC	11625
7823 kHz, 18-04, 1015 UTC	11625
6123/8171 kHz, 19-04, 0950 UTC	11625
6123/8171 kHz, 19-04, 1005 UTC	11625
6981 kHz, 26-04, 1133 UTC, i.p.	11021



S11a

16112 kHz, 03-04/06-04, 1015 UTC

478/31 Vnimanije

75643 34616 19189 20947 37740 74792 01105 53815 35745 39578
90229 91458 78820 75505 25064 15451 13918 44972 28102 16525
82943 53495 81759 03836 52082 86156 65756 07463 44066 70670
15136

Vnimanije, rpt msg, konets

5358 kHz, 11-04/14-04, 0455 UTC

327/39 Vnimanije

79126 00267 97762 84344 82988 94650 61803 46997 36586 84023
82813 99693 75956 64480 77454 36430 23593 73389 26992 27626
21588 25149 25471 09936 74647 15377 34283 87694 87580 53198
52962 74176 20674 89731 75754 37806 11082 62125 31326

Vnimanije, rpt msg, konets

7317 kHz, 11-04/14-04, 0915 UTC

487/33 Vnimanije

08912 62572 87080 83263 74082 12443 65867 38727 49647 19194
12281 79192 45490 44521 30650 22278 83317 11902 13593 38704
68924 47301 63173 25452 01279 08590 37499 77933 17144 79515
05407 20062 91406

Vnimanije, rpt msg, konets

9960 kHz, 11-04/14-04, 1020 UTC

427/40 Vnimanije

42328 27364 67544 60034 16207 22288 10540 79355 08220 76722
98449 50862 34413 30836 39559 50481 91275 91975 00382 03921
91859 92515 70719 80020 89923 87449 45361 69376 54519 47435
76703 19336 57849 31508 43055 70435 10108 24428 71437 06176

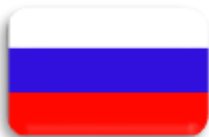
Vnimanije, rpt msg, out

4016 kHz, 19-04/28-04, 1955 UTC

373/32 Vnimanije

54880 14965 14796 52965 11137 64763 04751 11449 79251 86501
81990 34594 76359 81165 71463 16769 91614 87377 13457 99678
20942 16331 67008 76346 43584 83138 01403 27537 40464 76594
90583 63395

Vnimanije, rpt msg, konets



S28 - The Buzzer

Mode: USB
Frequency: 4625 kHz

Date	UTC	Details
1-4	1918	Buzzer channel marker
6-4	1319	ZhUOZ 16187 DUVROChAJ 78848108 (CW interference due to bad channel separation)
6-4	1329	ZhUOZ 12494 GRIBOFUT 94070344 ISHIMOSTOK 62647974 (CW interference due to bad channel separation)
6-4	1436	ZhUOZ 50353 VZMYeT 68477981 BYeDOKURKA 01001091 (CW interference due to bad channel separation)
6-4	1455	ZhUOZ 57978 KLADChIK 15851564 (CW interference due to bad channel separation)
13-4	0901	ZhUOZ 87093 DIODOSLOM 41618641 (CW interference due to bad channel separation)
13-4	1012	ZhUOZ 97333 DAROKRON 79243467 BYeRYeZhNOST' 81951137 (CW interference due to bad channel separation)
13-4	1053	ZhUOZ 10312 BRAKOPAK 37431648 ZASTRYeVANIYe 83024709 (CW interference due to bad channel separation)
13-4	1136	ZhUOZ 82581 KOKSOHIMIYa 74687335 (CW interference due to bad channel separation)
13-4	1319	ZhUOZ 10797 BOGOZOB 51584274 (CW interference due to bad channel separation)
13-4	1327	ZhUOZ 24723 LYeGKOKRYLYJ 99616868 (CW interference due to bad channel separation)
13-4	1329	ZhUOZ 77869 BRAKOChYeS 92278147 (CW interference due to bad channel separation)
13-4	1336	ZhUOZ 82630 80801 KRYMOKOKOS 26903956 (CW interference due to bad channel separation)
13-4	1338	ZhUOZ 47528 KLINOSHvAB 47725401 (CW interference due to bad channel separation)
13-4	1341	ZhUOZ 49544 KRYeZOShIFR 41494791 (CW interference due to bad channel separation)
13-4	1344	ZhUOZ 51900 37540 VYBBROSKA 17382691 (CW interference due to bad channel separation)
13-4	1404	ZhUOZ 64425 DYuRALYuMINIJ 49849526 (CW interference due to bad channel separation)
13-4	1441	Buzzer channel marker
17-4	1022	ZhUOZ 19593 KURDOTOL' 02722385 (CW interference due to bad channel separation)
17-4	1120	ZhUOZ 10390 ZACHITYVANIYe 41981556 (CW interference due to bad channel separation)
17-4	1755	Buzzer channel marker. Harmonic of 4625 kHz
17-4	3043	Buzzer channel marker. Harmonic of 4625 kHz



S30 - The Pip

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

Freq	Date	UTC	Details
3756	1-4	1920	Pip channel marker
3756	13-4	0259	49FT 42BV 81BR 37949 62331 37185 ZOLOTUHA 09357784. Time mark after the message
5448	13-4	1440	Pip channel marker (day freq)
3756	13-4	1603	Pip channel marker (night freq)
3756	13-4	1716	Y8VM 6I2Zh 8CShchJ 27Shch' N1DU 53OB 78MV DEAY JH'J 12CI
5448	23-4	1538	Pip channel amarker
3756	23-4	1600	Pip channel amarker



S32 - Squeaky Wheel

Mode: USB

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

S32 oddities

5436 kHz, 23-04, 0703 UTC Squeaky Wheel channel marker //5473 kHz
 5473 kHz, 23-04, 0703 UTC Squeaky Wheel channel marker //5436 kHz
 5111 kHz, 23-04, 1536 UTC Squeaky Wheel channel marker //5432//5453 kHz.
 Stops at 1538z on all freqs and switches to its night freq 3828 kHz
 3828 kHz, 23-04, 1539 UTC Squeaky Wheel channel marker

Freq	Date	UTC	Details
3828	1-4	1921	Squeaky Wheel channel marker
5473	13-4	1440	Squeaky Wheel channel marker (day freq)
3828	13-4	1602	Squeaky Wheel channel marker (night freq)
3828	13-4	1657	K3V' DSAS PMV5 08528 72293 23153 SOTKA 43886165
3828	13-4	1730	PYeSOChNYJ-21 ShULER-60 STUPA-32 RYeZINA-38 BURKA-37
5436	23-4	0703	Squeaky Wheel channel marker //5473 kHz
5473	23-4	0703	Squeaky Wheel channel marker //5436 kHz
5111	23-4	1536	Squeaky Wheel channel marker //5432//5453 kHz. Stops at 1538z on all freqs and switches to its night freq 3828 kHz
5432	23-4	1536	Squeaky Wheel channel marker //5111//5453 kHz. Stops at 1538z on all freqs and switches to its night freq 3828 kHz
5453	23-4	1536	Squeaky Wheel channel marker //5111//5432 kHz. Stops at 1538z on all freqs and switches to its night freq 3828 kHz
3828	23-4	1539	Squeaky Wheel channel marker

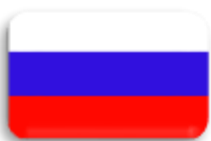


S4525

Frequency: 4524 kHz

Mode: USB

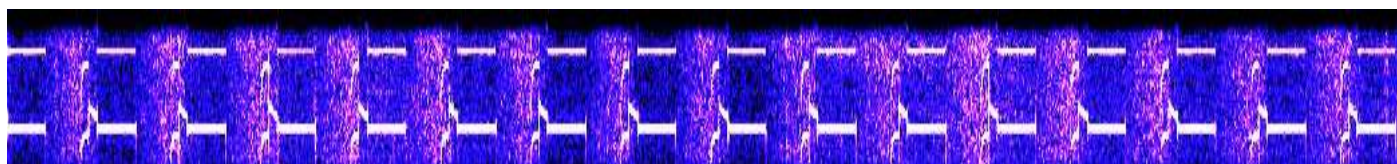
4524 kHz, 11-04, 1226 UTC Dash channel marker reactivated



S6360

Frequencies: 6360, 4770, 3013 kHz

Mode: USB



A new net control station came on the air on 11 April. It uses 6360 kHz as daytime freq and 3012 kHz as nighttime freq. It is also heard on 4770 kHz.

Freq	Date	UTC	Details
6360	17-4	0559	OHVAT-98 45742 ATOLL 10418743. Counts before the message
6360	17-4	1256	OHVAT-98 49644 FURAN 01782575. Counts before the message
6360	17-4	1447	1 2 3 4 5 6 7 8 9 10 Test counts
6360	17-4	1638	Russian military. New channel marker
6360	17-4	1748	OHVAT-98 04723 BYeSKROVNYJ 10922195. Counts before the message
6360	17-4	1800	Count followed by a message
6360	17-4	1800	Marker stopped; then a ten count in Russian followed by a message
3012	17-4	1932	Channel marker
6360	18-4	1605	channel marker
6360	24-4	1627	Channel marker
6360	25-4	1050	10-counts before the message. Okhvat-98 Okhvat-98 45 742 ATOLL 10 41 87 43 Priyom
4224	17-4	1252	KATOK-65 49644 FURAN 01782575 Counts before the message. Same message on S6360



V15

Via Radio Pyongyang

South Korean News Agency Yonhap reports on 14 April that Pyongyang is sending new messages to its agents. The station was also heard on 27 April at 1615 UTC on 6400 kHz. The recording is on our website.



V28

V28 reportedly is still active on a number of frequencies. Unfortunately we hardly receive any logs. So if you hear the station, please send us your reports !!

3067 kHz, 27-4, 1030 UTC Parrot. North Korean numbers transmission

3277 kHz, 27-4, 1030 UTC Parrot. North Korean numbers transmission



VC01 - Chinese Robot *Chinese Air Defense*

Modes: USB and LSB voice

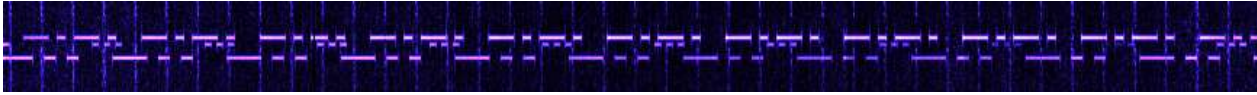
5433 kHz, 09-4, 1846 UTC, USB	Chinese Robot
5433 kHz, 17-4, 1119 UTC, USB	Chinese Robot
5433 kHz, 18-4, 1115 UTC, USB	Chinese Robot
5433 kHz, 18-4, 1358 UTC, USB	Chinese Robot
5433 kHz, 21-4, 1000 UTC, USB	Chinese Robot
5439 kHz, 21-4, 1000 UTC, LSB	Chinese Robot
5433 kHz, 21-4, 1042 UTC, USB	Chinese Robot

MORSE STATIONS



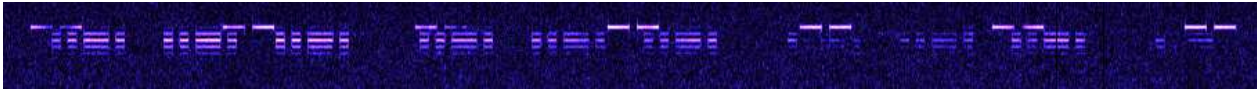
MX

Russian Military beacons



Above: Beacons D, S and C

Below: Beacons F and M



Beacon S was active on 8821 kHz on 19-04 at 0900, 0930, 1000, 1030 UTC.

Beacon M from Magadan popped up on an unusual frequency in parallel with its normal frequencies.
9116.8//8495.4//7039.4 kHz on 19-04 at 1340 UTC. Also heard on 17-04 at 1813 UTC at 9116.8//8495.4 kHz.

7039.3 kHz, 21-04, 0856 UTC: Beacon TI (defective K?)



M01

6260 kHz, 01-04, 1500 UTC

463 127 30 30 = =
65076 95109 59823 01695 00195 92889 83624 14758 65115 82216
97049 66768 31828 22017 78716 94115 93304 32144 28166 81692
79156 82793 49165 30213 86076 70254 56969 94705 71656 36690
= = 127 127 30 30 000

6260 kHz, 08-04, 1500 UTC

463 105 30 105 30 = =
34197 05146 34903 43076 24119 29838 92375 82412 80962 63722
08457 12575 43400 04664 00645 37279 10300 02423 54142 77418
77969 35594 83817 22588 86163 13075 25830 23463 53392 53889
= = 105 105 30 30 000

5475 kHz, 11-04, 1800 UTC

463 911 911 30 30 = =
56473 55598 18528 27938 66674 89335 55812 64698 34799 40000
31405 62580 08643 19198 47614 58758 03381 08576 75801 01017
68151 50216 11595 69347 57520 05197 81956 36136 12839 11996
= = 911 911 30 30 000

5475 kHz, 13-04, 1800 UTC

463 128 128 30 30 = =
57045 83356 52706 38748 52127 37411 60450 66513 78082 05706
96922 15254 33809 47066 47292 98747 (rpt 98474) 93830 90162 66477 25654
08203 48220 22258 53211 35135 44910 22853 06995 89432 63015
= = 128 128 30 30 000

5020 kHz, 13-04, 2000 UTC

463 218 218 30 30 = =
72417 91524 29290 34049 86392 35592 71750 98974 04578 62104
58234 84432 54113 14589 42866 84112 65097 78087 02047 40710
60906 71883 97165 17240 61199 77268 03892 75293 28845 90525
218 218 30 30 000

6260 kHz, 15-04, 1500 UTC

463 921 91 30 30 = =
99241 36671 52813 73981 27201 38549 16820 57174 62700 60477
32097 68601 92586 06710 10101 38949 52777 74592 50748 28468
40471 10767 96089 81979 90476 60308 23719 14866 90518 39530
= = 921 921 30 30 000

6510 kHz, 16-04, 0700 UTC

463 732 732 30 30 = =
98136 86693 48245 19533 38963 47871 29356 75265 27950 18354
27703 83197 82869 13237 54663 28909 81994 63532 78552 07708 (rpt 07780)
78356 42623 30694 44662 92714 93161 69260 96267 71110 91959
= = 732 732 30 30 000

6260 kHz, 22-04, 1500 UTC

463 228 228 30 30 = =
18233 98272 77289 93482 91179 15534 95841 73004 74662 62934
00619 17130 37703 76675 19949 89676 28388 62393 97883 10945
98636 29928 80805 73378 77462 01680 05776 79228 12204 12508
= = 228 228 30 30 000

5475 kHz, 25-04, 1800 UTC

463 129 129 30 30 = =
41068 34287 51603 66603 03228 63183 37173 43942 54839 51611
12435 69243 55487 08026 92791 51543 14749 13347 60088 62424
18106 36208 36262 62164 43728 21320 51781 29149 19402 46471
= = 129 129 30 30 000

6260 kHz, 29-04, 1500 UTC

463 131 131 30 30 = =
22447 95673 76728 74316 02755 15915 37811 45603 17498 41149
00301 32377 76972 77573 59381 47928 66454 35010 09315 33893
99210 03289 13951 94728 98686 41006 05557 92738 85508 81317
= = 131 131 30 30 000

6510 kHz, 30-04, 0700 UTC

463 223 223 30 30 = =
23544 72605 54677 95604 92753 72926 90270 68571 05481 68700
66388 88683 53957 34029 31789 60491 63665 42569 82456 57434
74113 36218 75816 57538 09674 79224 95862 98840 37078 34266
= = 223 223 30 30 000



M01b

3510/4605 kHz, 13-04, 1832 UTC

201 521 521 35 35 = =

49675 77332 46821 71413 70078 60520 48878 78774 46742 92635
75844 38175 16677 84474 28169 88991 34401 84171 58285 08917
63266 69816 50806 66337 58625 45172 87467 94531 86110 07527
32131 02452 46124 36007 05387
= = 521 521 35 35 000

3715 kHz, 20-04, 1942 UTC

477 521 521 35 35 = =

49675 77332 46821 71413 70078 60520 48878 78774 46467 52635
75844 38531 16677 84474 28169 88991 34401 84171 58285 08917
63266 69816 60806 66337 58625 45172 87467 94531 86110 07527
32131 02452 46124 36007 05387
= = 521 521 35 35 000

3645//4455 kHz, 24-04, 1915 UTC

771 521 521 35 35 = =

49675 77332 46821 71413 70078 60520 48878 78774 46467 52635
75844 38531 16677 84474 28169 88991 34401 84171 58285 08917
63266 69816 60806 66337 58625 45172 87467 94531 86110 07527
32131 02452 46124 36007 05387
= = 521 521 35 35 000

3535//4590 kHz, 24-04, 1810 UTC

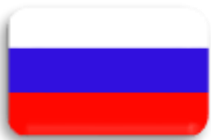
420 521 521 35 35 = =

49675 77332 46821 71413 70078 60520 48878 78774 46467 52635
75844 38531 16677 84474 28169 88991 34401 84171 58285 08917
63266 69816 60806 66337 58625 45172 87467 94531 86110 07527
32131 02452 46124 36007 05387
= = 521 521 35 35 000

3625//4940 kHz, 28-04, 1902 UTC

153 521 521 35 35 = =

49675 77332 46821 71413 70078 60520 48878 78774 46467 52635
75844 38531 16677 84474 28169 88991 34401 84171 58285 08917
63266 69816 60806 66337 58625 45172 87467 94531 86110 07527
32131 02452 46124 36007 05387
= = 521 521 35 35 000



M12

14468/13568/12178 kHz, 01-04, 1310/1330/1350 UTC

451 451 451 1 1017 73 1017 73
13904 97074 25443 26840 35468 89373 42498 63104 20229 06893
00237 92763 36589 90550 56733 14665 18356 56188 70584 52717
94628 33262 95747 64488 29839 55195 12241 63382 30181 80302
58392 66961 59042 77302 06615 92166 80403 75386 45274 21660
07999 90279 30150 66146 80137 81062 66474 09838 12597 97100
46634 30752 94216 78075 05690 24503 53229 99619 05962 62237
99199 98411 44578 21448 14412 75985 00551 32151 50530 61532
71575 85000 45025
000 000

8176/9376/10476 kHz, 08-04, 0500/0520/0540 UTC

134 134 134 4739 127 4739 127
45648 63513 76313 61575 89855 47321 05796 67746 57808 96053
59852 18219 67236 15516 57829 60521 29335 20500 82490 21458
38344 19571 67376 91226 12850 59348 05855 84725 93490 60642
87776 72902 10670 89310 64717 25295 69279 31613 08171 36265
97240 13508 68530 77225 55546 45363 46322 13374 36235 12439
11106 04629 85036 87065 01751 11772 57720 29389 22289 13752
69602 85380 62855 23548 94835 01684 89815 84213 07858 59222
40402 22051 05945 96449 77408 28191 85529 77843 26333 69576
59905 96554 67802 39603 02233 68764 69833 55894 88947 03054
35028 81458 34658 71986 28414 98045 03602 48370 38062 25048
65144 40680 29942 90082 57268 66958 05599 05893 93720 81674
45926 18530 36174 07449 35570 93756 02760 86141 14059 26952
95330 08998 18886 95900 12802 70145 43108
000 000

18524/17424/15824 kHz, 12-04, 1400/1420/1440 UTC

548 548 548 1 9984 103 9984 103
14602 72221 75068 35902 80866 19792 39699 49541 35822 68100
48129 14289 03335 86932 43932 10037 27189 17547 30178 06844
49825 16867 94437 47655 41300 06610 88001 30025 47142 18107
61781 66175 20780 71100 29011 90167 37751 22828 80984 00825
80431 15310 90118 77404 16971 09142 78954 70854 67645 48355
74299 31845 42963 52906 55773 74142 00560 22679 95923 33718
03389 00274 31298 74500 40918 83851 25926 99884 51460 91989
35931 15132 22723 75470 41495 71602 79421 71805 13986 89200
89429 54701 50261 21937 96220 07711 95997 44479 01075 63561
88926 72534 28301 36015 26359 92386 10566 67961 68787 49850
79257 36020 66910
000 000

12203/10693/9293 kHz, 13-04, 0500/0520/0540 UTC

262 262 262 1 432 57 432 57
51091 87766 11294 17516 66970 59555 63347 43187 51588 57674
38300 32726 34811 40417 98790 19707 65222 33295 81059 45775
09417 24156 06291 43589 85794 50079 68298 75659 48349 49793
86567 26049 62396 89077 26904 53734 39588 15543 37434 18491
22462 81520 10860 29447 19978 96972 04153 31460 05460 58449
70170 91527 93849 59416 68826 99993 99378
000 000

14468/13568/12178 kHz, 13-04/15-04, 1310/1330/1350 UTC

451 451 451 1 8839 61 8839 61
35735 69572 23486 73150 70457 56242 89692 22855 49441 53930
30557 46507 60340 41940 29774 19283 52537 88491 32494 28584
70748 56686 25214 52316 96791 74044 98438 43965 28170 36404
15700 28642 31309 58011 87892 59233 82609 08012 18381 95846
10465 80108 20724 03831 77187 98343 61599 09310 31816 81845
24085 41917 42687 12152 32202 18516 09845 87645 01491 37889
77439
000 000

6793/5893/4593 kHz, 19-04, 2100/2120/2140 UTC

785 785 785 1 7494 91 7494 91
94541 75431 66040 93614 90352 50477 99670 10838 07423 35903
60043 23404 59145 94896 68165 12264 46952 64830 27016 04544
07116 86908 84948 66003 27750 01121 21479 59658 95352 67920
35089 45293 67580 40870 33756 59723 10714 04169 32855 12858
12767 76855 12694 60322 30112 69837 97106 77077 07665 46929
79464 42707 60737 83899 64390 40856 81750 39450 17200 04400
10561 14968 10462 25962 19716 03914 57202 26995 96960 35665
77404 74594 15328 78025 95408 30720 89071 52215 59203 30326
85550 65863 05154 20203 79775 17569 80445 95293 39828 13283
47539
000 000

8176/9376/10476 kHz, 22-04, 0500/0520/0540 UTC

134 134 134 1 7494 91 7494 91
94541 75431 66040 93614 90352 50477 99670 10838 07423 35903
60043 23404 59145 94896 68165 12264 46952 64830 27016 04544
07116 86908 84948 66003 27750 01121 21479 59658 95352 67920
35089 45293 67580 40870 33756 59723 10714 04169 32855 12858
12767 76855 12694 60322 30112 69837 97106 77077 07665 46929
79464 42707 60737 83899 64390 40856 81750 39450 17200 04400
10561 14968 10462 25962 19716 03914 57202 26995 96960 35665
77404 74594 15328 78025 95408 30720 89071 52215 59203 30326
85550 65863 05154 20203 79775 17569 80445 95293 39828 13283
47539
000 000

18524/17424/15824 kHz, 24-04/26-04, 1400/1420/1440 UTC

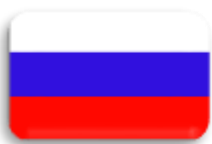
548 548 548 1 6491 87 6491 87
40704 01383 74484 91476 08164 05793 98952 53080 88488 54027
60906 54238 08159 49504 76761 83635 56964 52723 08744 48309
23637 15865 64179 23862 38146 48838 16560 94053 84080 57560
86077 95697 96444 41953 92164 55914 41400 14123 09738 71002
76583 08487 45043 31325 16060 66190 86167 87145 44140 61377
07926 28570 24132 89371 61302 69955 95319 88988 06324 06454
20996 82096 86480 18488 59699 79373 09912 64773 45678 18788
61338 17841 99179 25257 42889 52062 09008 48625 62695 24067
25351 06362 61287 69356 17105 68567 66443
000 000

12203/10693/9293 kHz, 25-04, 0500/0520/0540 UTC

262 262 262 1 589 71 589 71
48980 08317 96590 48169 58719 09390 09153 12448 27814 39973
27401 76153 90189 02629 06031 67740 32459 39917 90660 21538
37641 66520 31816 84932 05659 93012 06708 80635 38562 05046
70065 90300 15255 74188 43781 96881 68555 26391 17365 39604
64400 57723 52451 17911 92454 47304 49460 79784 96192 30347
44096 31827 11545 58015 91834 46289 05047 00301 41993 50792
22024 99367 06091 19010 66272 89497 44236 62407 61377 12936
26055
000 000

14468/13568/12178 kHz, 29-04/15-04, 1310/1330/1350 UTC

451 451 451 1 3294 83 3294 83
29939 62651 14574 22302 13569 56209 42990 74187 26211 60979
33512 10190 80715 46467 92192 66357 41746 84907 97921 09979
78869 75266 16117 46130 22932 75268 98815 27863 31224 85690
87395 39657 98806 97085 01187 13750 49140 46302 31033 08885
02430 03834 34020 93577 39677 49089 42624 54301 51929 97113
35160 47379 48789 95346 51656 04745 09987 08572 56987 41178
52655 06756 91482 58161 04621 27396 58041 82368 89600 79624
85486 08668 69138 08269 06913 78607 22216 42603 88016 45995
40042 45039 38825
000 000



M14

5430/5560 kHz, 01-04/15-04/22-04, 0800/0900 UTC

171 184 184 59 59
13253 26472 48950 52141 08745 63532 21745 53413 96423 84276
24132 68321 07621 31242 74629 73241 96313 45261 76498 51823
23456 73192 42613 53804 61235 62897 41324 89376 53421 06213
01834 63505 32676 38101 78365 23609 56782 25301 79178 54305
41326 98635 27467 08531 34245 87625 45631 36782 25314 10250
73414 53212 07642 46263 34127 09751 49653 12311 84502
184 184 59 59 00000

5240 kHz, 02-04/16-04, 2300 UTC / 5825 kHz, 03-04/17-04, 0000 UTC

376 184 184 59 59
13253 26472 48950 52141 08745 63532 21745 53413 96423 84276
24132 68321 07621 31242 74629 73241 96313 45261 76498 51823
23456 73192 42613 53804 61235 62897 41324 89376 53421 06213
01834 63505 32676 38101 78365 23609 56782 25301 79178 54305
41326 98635 27467 08531 34245 87625 45631 36782 25314 10250
73414 53212 07642 46263 34127 09751 49653 12311 84502
184 184 59 59 00000

18041 kHz, 05-04, 0500 UTC

952 718 718 50 50 = =
28379 26566 04021 29283 97520 33223 33728 18428 38767 79469
77058 55630 27813 41326 76785 43106 92504 16877 92643 01090
16807 14890 88166 20762 99172 15400 77385 16487 07496 13218
86075 50808 97824 80269 07243 30631 89045 07732 55540 98042
10699 13889 50291 64184 66134 28646 81817 59644 78180 90642
= = 718 718 50 50 00000

18041 kHz, 07-04, 0500 UTC

952 738 738 50 50 = =
12423 88844 82397 89516 57677 65123 79740 85573 32609 52759
81537 00611 63314 82699 16847 73617 42225 07019 79630 10232
47657 15421 74995 89685 37858 21356 73573 26975 45240 66224
11239 20881 37478 15068 64855 83902 05177 42206 71663 20713
00786 30260 23221 41097 46435 30981 58221 10288 69450 61340
= = 738 738 50 50 00000

5430/5560 kHz, 08-04, 0800/0900 UTC

171 490 490 91 91
52378 90126 42876 19097 06132 72691 48071 25375 61608 72421
83606 51026 83528 91905 82231 63881 92244 05190 63217 66747
98414 20204 53261 74194 52781 84390 71515 45020 75229 83129
62467 84309 85561 29900 06718 53771 28431 53908 61234 43910
63598 61734 83264 61905 72426 76149 62527 79010 63381 19427
63841 53991 73062 20719 63735 64490 26173 45590 80961 30352
53125 56123 87610 85171 31010 53430 80127 63530 70771 10323
73630 19372 53610 87031 52890 63781 32084 52100 00340 62721
52400 62826 61120 54622 71060 64991 24051 00647 73809 62841
32465
490 490 490 91 91 00000

18041 kHz, 12-04, 0500 UTC

952 814 814 60 60 = =
52611 48558 36313 18353 85599 35832 25661 36509 66207 51561
85632 32366 72250 49451 82884 04796 01090 06320 26572 99944
60297 19181 72546 25954 09985 60638 19053 25192 92728 72259
92366 96195 12031 00634 45809 82508 45251 05782 20585 70599
01955 96632 41870 64048 63598 73219 48587 26197 65509 80320
80314 08433 07084 02197 69762 06313 01147 53140 14251 10708
= = 814 814 60 60 00000

5469 kHz, 12-04, 1920 UTC / 5463 kHz, 26-04, 1920 UTC

537 518 518 86 86
32498 53900 12865 21208 51810 31717 42954 41665 86113 42421
98900 84532 42814 26690 00343 51926 33664 76712 81624 58500
54119 10200 37901 42338 15271 63498 61772 54718 32991 84721
36519 48264 33876 29237 50630 53732 11737 34890 24351 27136
54373 29890 80740 30012 45123 54819 90601 25934 27579 41734
53890 72189 41612 91078 01276 53890 03048 42518 53900 02561
53718 59341 47816 89162 73349 64172 45161 83901 01561 73282
52400 71098 58512 63901 02074 64570 29078 80829 52727 86241
53712 63490 82310 20943 57286 61220
518 518 86 86 00000

18041 kHz, 14-04, 0500 UTC

952 784 784 60 60
93577 69242 82470 80193 37045 38708 41125 83498 70780 29019
78102 81751 60015 20808 43917 39215 59511 30235 06156 02789
23559 02751 37073 33719 33267 93295 33309 99950 27077 62601
16181 71317 45431 44302 85965 84738 25544 62533 28641 71634
07206 04699 98491 64730 35560 79109 25036 26444 71792 12171
17712 66041 47661 64801 66743 37754 24821 72792 63649 37033
= = 784 784 60 60 00000

5475 kHz, 20-04, 1800 UTC

463 868 868 30 30 = =

51501 17849 41898 54205 18279 98487 71904 57823 13212 58171

84480 05197 69659 82761 19537 27367 86332 86439 11638 36021

70316 45392 79099 31774 96982 64364 58294 50411 84904 84912

= = 868 868 30 30 000

5440/5570 kHz, 29-04, 0800/0900 UTC

171 025 025 30 30

34253 75648 07912 73546 25367 93521 64537 34218 93521 09362

92631 47864 35263 81527 93627 08734 26351 53421 04625 99465

74653 53421 84635 03564 73524 24312 75643 25634 75624 70689

025 025 30 30 00000

5240 kHz, 30-04, 2300 UTC

376 184 184 59 59

13253 26472 48950 52141 08745 63532 21745 53413 96423 84276

24132 68321 07621 31242 74629 73241 96313 45261 76498 51823

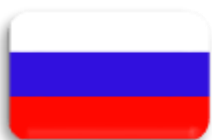
23456 73192 42613 53804 61235 62897 41324 89376 53421 06213

01834 63505 32676 38101 78365 23609 56782 25301 79178 54305

41326 98635 27467 08531 34245 87625 45631 36782 25314 10250

73414 53212 07642 46263 34127 09751 49653 12311 84502

184 184 59 59 00000



M21 + variants
Russian Air Defence Forces
Во́йска ПВО Voyska PVO

4202.5 kHz, 02-04, 0411 UTC

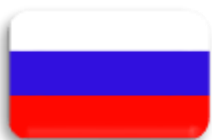
9623868099102 962586869391 EEEEE 9625868693 902 96278682 93402 962486103 8102
9629868092904

4416 kHz, 09-04, 1821 UTC

=992120??0????? =992121??0????? =992122??0????? =992123??0?????

4601 kHz, 10-04, 1632 UTC

19200 82 30 0000 834663092 5131009001930 4334811 00834662 039 34



M41
Russian Air Defence Forces
Во́йска ПВО Voyska PVO

7988.5 kHz, 13-04, 0802 UTC: T53U wkg 4 outstations



M89 - Chinese military

6779 kHz, 03-04, 1451 UTC

3D4A 77DT DU47 U5N6

III 6D34 AR K

R U GA K

R R RPT K

R GA K

9260 kHz, 04-04, 1000 UTCV

N6UU D645 D4N6 AA7T DA4U TT67 (Cont'd) K K

R R 56W = = = 4AT4 4AT4 AR K

R R 71W = = DA4U DA4U K

R R 64 = = 6DN6 6DN6 K K

RPT K K

R R 81W = = 34N5 34N5 K K

RR 03P 01 = =

6NTU U7T4 DT57 3U63 AAAA ATT5 77N3 NDAN T3N4 TA5N (Cont'd)

QSL 1M EEEEE QSY 19 K K

VV KK VVV K

RPT QSL K K

R G.. QSL K K

R R .R7G GA BK

GA CA

R GA

R RPT 11W K K

RPT 15W K K

R R RPT 24W K K

R R RPT 38W K K

R R GA

55S 55 55 VV 4

RPT 58W K K

R RPT 57W TO 58W K K

QSY 15 VVVV

VV QSY 18 QSY 18 K

QSY 18 K K

QSY 18 A EEEE K K

QSY 07 QSY 07 K K

VV VV VV VV QSY 28 K K

VV K K VVV VV K VV K

4842 kHz, 10-04, 1907 UTC, i.p.

R QSA 2 K

H JELF RPT K

WTLN IEC = = 5933 AR K (Normally exercise associated)

R DE E1DY K

R QSA 1 K

R IEC = 5733 AR K

R DE A9JP K

R QSA 2 K

R IEC = 6352 AR K

R DE K

.. QSA 2 K

... IEC = 3... AR K

NR DE Q6UW K

N QSA 2 K
R R IEC = 6.34 AR K
V DE NI. M..
R QSA 1 K
R IEC 6643 AR K
R ... (Two stations doubled)
GA K
...16 K
R GA K GA K
R GA K

5165 kHz, 11-04, 1216 UTC, i.p.

62U = A6DA AR K
R R 65W = N.56 AR K
86W = U.5A AR K
R R 99W = DTN4 AR K
R R 91W = T634 AR K
95W = DAU4 AR K
R R U MSG GA K
QSL 2026 K
SK

3642//7602 kHz, 12-04, 1533 UTC, i.p.

RMKS 132. TO 1017.0 31..
1309 RMKS 1329 TO 101EEE
RMKS 1329 TO 10171.41.. 8 15. 1174 08731 0931309
= D376 AD5. 7T4N 3TA6 (Cont'd)

7759 kHz, 13-04, 0752 UTC

QV4DE DE DS5C K
HR NR 3284/EX 1663 RMKS 1517 TO 1573 KK
QV4D DE DE DS5C GA R R
QV4D DE DE DS5C QSL 1557 K
QV4D DE DE DS5C NR HR GA K
QV4D DE DE DS5C NR 3286 NR 3285 CK99 67 0413 1557 RMKS = 465U A43U 0N4D

4307 kHz, 13-04, 1443 UTC

G7GY DE 6TLT K
G7GY DE 6TLT R GA
G7GY DE 6TLT R QSL 2251 K
G7GY DE 6TLT R VA
E2DK DE 6TLT K
E2DK DE 6TLT R GA
E2DK DE 6TLT R QSL 2305 K
E2DK DE 6TLT SK SK

4326 kHz, 13-04, 1520 UTC

DE SCFH QSA 3 K
VVV QAK1 DE SCFH QSA 3 K
QAK1 DE SCFH R RPT K
QAK1 DE SCFH TY KL AA HR NR 413 K
QAK1 DE SCFH R GA K
QAK1 DE SCFH R QSL 2328 K
QAK1 DE SCFH R HR MSG GA K
QAK1 DE SCFH MSG NR 3001 CK61 09 04 13 2320 RMKS 2949 972 TO 2949 778 = A3DT U7D4 A56T 64NT ... / ...
QAK1 DE SCFH R GA K

Outstations on 3716 kHz

QAK1 972 = D7NA 5UA7 DNA4 ... / ... AR K

R QSL 2341 HR MSG K

QAK1 GA K

QAK1 DE SCFH MSG NR 3002 CK61 30 04 13 2320 RMKS 2949 972 TO 2949 778 = A7N5 D63T U63T 3U5A ... / ... AR K

QAK1 R QSL 2348 K

QAK1 DE SCFH SK

QAK1 GB

A) 8076 kHz, 15-04, 0902 UTC / B) outstation on 7714 kHz

A) GA K

B) i.p. 34TN 3KK4 7TDU35T 3AUN ... / ... AR K

A) QSL 1705 1705 HR MSG K. HR MSG GA K

B) GA K

A) RR HR MSG NR NR 4795 CK41 17 04 15 1700 RMKS 1668 TO 0208 K

B) OK OK K

A) RR = = DNT4 63TD N47D N776 733A AUT5 ... / ...

B) RR QSL 1709 1709 VA VA

A) RR GB ET at 0911z

5461 kHz, 15-04, 1442 UTC, i.p.

QSY NR 51 K

R GA K

R RPT 21A W K

NPT 210W K

R AS

QSY NR 0.2 K

QSY NR 11 K

R QSA EEEE QSL EEEE QSW 2246 K

R GA K

R MSG NR 19 CK 211 22 0415 1210 RMKS 8660 TO 6090 K

R GA

01W =

4U67 336T DAD7 T5T4 NN6U UDTA NANU N54A T57A TA3T 54NA TN6D (Cont'd)

= K

R RPT 35W TO 37W BT DN57 5A3U AAU5

R GA

51W = 4NT5 45A6 (Cont'd)

5255 kHz, 16-04, 1926 UTC, i.p.

5NT7 4N6A 4653 7D34 63A5 AR

VV C4LS DE Z2VW K

R CY HW U

R 12P .7E = .47. AR K

2P ..P 86W = 6T3N AR K

R U WK NR GA K

VV DE Z2VW K

R KY HW K

R 1P 86W . 87 K

1P 85W TO 86W = U4TA U3.D AR K

R 1P 89W = ..34 AR K

H.. P K

R 2P 2.W = 4T3N AR = 4T3N AR K

R R OK

VV F4UY DE Z2VW K

R CY HW K

R 1P 12W = D.56 AR K (Cont'd repeat groups)

U .W NR GA K

R OK

VV AJDP DE Z2VW K

VV AJDP DE Z2VW K

VV ..DP DE Z2VW K
VV AJDP DE Z2VW K
VV Q2VY DE Z2VW K
R CY HW K
R .W K HR GA K
R OK
VV B2TA DE Z2VW K
VV B2TA DE Z2VW K
VV B2TA DE ZWVW K
R CY HW K
QSA 1 ...
VV 6.....
VV V8X. DE Z2VW K
HR WK NR 14 HR WK NR 14 NR 14 SK GB

5566 kHz, 16-04, 1433 UTC, i.p.

RMKS 6235 TO 6491 K K
R HR C R
RR HT TC PTBL ? K K
R R OK K
NR NR 0012 CK .9 73 0416 1225 RMKS 6.35 TO 6491 K K
R R HR RPT =
2235 AR K K
NR OK OK
R R AS AS
HR FF K K
R R R R W.A EEE PSE MSG GA K K = =
NR NR 001/2240 K K
R R OK OK
R R
B T J..FF DT =
A3N4 54. = =
139B 54.A K K = =
13D ? 139B 54EA AR K K = =
139B 54EA AR K K = =
139B 54EA K K
RPT RPT K K = =
139B 54EA AR K K
R R OK OK
NR NR QSL ? K K
R R NR HR TK. ? K K
R RR TOK K
NR = 139B EEEE 4 K K
R R
RPT 1W = = 13M EEEEE = 139B AR K K
HR SR RPT AW. = = 139B AR K K
R R R HR TC I.. K K
R R OK K
= = 139B 54AE K K
R R OK K
R R QSL .250 K K
R R 136 K K
R R HR NR 133 EEEE HR NR 133 K K
PSE
U 7G GA K
R R PSE U MSG GA K
R R OK OK
7G GA K
PSE U MSG GA
R R AS AS K K

NR NR NR NR NR 051 CK
NR NR 0516 CK 99 72 0416 2255 RMKS 6491 TO 6235 K K
R HR TC K K
R R OK
NR NR 0516 CK 99 72 0416 2255 RMKS 6491 TO 6235 K K
R R OK
R R
R TC EEEE R R PSE RPT CLS K

6782 kHz, 16-04, 1114 UTC, i.p.

7NDD AA.4 N76A .AAN ... AR K
K RPT 2P 05W K (Both stations on this frequency)
R R RPT 2P 05W = 6NA6 AR K
RPT 2P 90W K
R RPT 2P 90W = A336 AR K
R QSL 1918 III QSL 191 III QSL 1918 K
R OK
HR MSG GA K
R GA K
R MSG NR NR 7638 CK 200 55 0416 1900 RMKS .003 TO 1374 K
R GA K
R 1P GA = =
45A4 5TA3 .7NT 6TA4 47DN DNA4 457. D7A6 UTAD (Cont'd)

7123 kHz, 18-04, 1008 UTC, i.p.

C4LS DE Z2VW K
R DE D1EV K
R QSA 2 QSA ? K
R QSA 2 V
R IEC = 3930 AR K
54 EEEE R IEC = 5458 AR K
R KP
VV R9VK DE Z2VW K
VV DE Q..S W K
R QSA 2 QSA ? K
QSA . IEC = 2862 AR K
R IEC = 4603 ..
VV F4 EEEE
VV F4UY DE V7KI K
VV AJDP DE V7KI K
VV AJDP DE V7KI K
R DE M6FV K
R QSA 2 QSA ? K
R QSA 2 K
R IEC = 2836 AR K
R = IEC = 6062 K
R KP
VV Q2VY DE V7KI K
R DE W6..
R QSA 2 QSA ? K
R QSA 2 K
R IEC = 597 EEEE IEC = 5971 AR K
R IEC = 6655 AR K
R KP
VV OJWE DE V7KI K
R DE Y9EA K
R QSA 2 QSA ? K
R QSA 2 K
R IEC = 5966 AR K
R IEC = 7155 AR K

R KP
 VV B2TA DE V7KI K
 DE R DE F3QA K K
 R QSA 2 QSA ? K
 R QSA 2
 R IEC = 2434 AR
 IEC = = 6946 AR K
 R KP
 VV V8BV DE V7KI K
 DE
 R QSA 2 QSA ? K
 R QSA 2 K K
 R IEC = 2469 AR K
 R IEC = ... AR K
 R KP
 VV YE2H DE V7KI K
 VV YE2H DE V7KI K
 HR F GA K
 R K
 F NR 6251/EX 1816 RMKS CQ K (
 F =
 Q9ZN/Y2KM AR =
 Q9ZN/Y2KM AR K
 R = =
 Q9ZN/Y2KM AR =
 Q9ZN/Y2KM AR
 R QSL 1817 K
 R OK
 HR MSG K
 R GA
 MSG NR 6252 CK 200 55 0418 1800 RMKS CQ K
 R GA
 R
 MSG GA 1P =
 4U4D U75T 4U6D 6AT3 A5T7 U5N. (Cont'd)
 III III 2P 2P = =
 4TU6 TU4A 6DTN 5T7N N4UA A7T4 3UN6 (Cont'd)
 AR (1035z)
 VV C4LS DE V7KI K
 R DE DJEV K
 R CY HR K
 R R PT 1P 85W K
 R 1P 85W = = U3DT AR K
 R RPT 2P EEEE RPT 2P 35W K
 R RPT 2P 34W K
 R 2P 34W = = DT64 AR K
 R QSL 1837 K
 R
 HR WK NR 02 K
 OK
 UWKNR GA K
 R HR NR NR 231 K
 R K
 VV R9VK DE V7KI K
 R DE Q9HW K
 R CY HW K
 RPT 1P ...
 HR WK NR 545 K
 OK
 VV F4UY DE V7KI K

VV F4UY DE V7KI K
R JWW K K
R CY HW K
R RPT 1P 24W K
R 1P 24W = = 5D7A AR K (Cont'd to repeat group)
R QSL 1838 K
HR WK NR 111 K
R OK
VV AJDP DE V7KI K
R DE M6FV K
R CY HW K
R RPT 1P 79W K
R 1P 79W = 6N7D AR K (Cont'd repeat groups)
R QSL QSL 1846 K
R U WK NR GA K
R HR WK NR NR 37 K
R OK
VV Q2VY DE V7KI K
DE W6GS K
R CY HW K
R RPT 1P 07W K
R 1P 07W = T5N3 AR K (Cont'd to repeat groups)
R QSL 1850 WK NR 121 K
R OK
VV OJWE DE V7KI K
DE (N/H)
CY HW K (Repeats groups)
VV B2TA DE V7KI K
DE FJQA K K
R CY HW K
RPT 1P 35W K
R 1P 35W = = N6T7 AR K
QSL 1854 K K
R U WK NR GA K
R
QSL 1854 K K
VV 7F. DE V7KI K
DE .3KY K
R CY HW K
R QSL 1853 K
R U WK NR GA K
WK NR 35 K
R
OK
VV YE2H DE VZKI K
HR WK NR 02 HR WK NR 02 SK SK

4834 kHz, 14-04, 1107 UTC

RMKS 66.. 7 .. K
R Q EEEE GA K (Both stations on this frequency)
MSG GA 1W = =
.5N. . 355T 7.34 U4A6 3A5 (Cont'd)
R QSL 1909 K
NR K K
NIL K GB
HR NIL SK GB GB

7550 kHz, 24-04, 1010 UTC

01W GA = = 7A6U UU55 467N UT5D (Cont'd)

K K

R R YR 7G GA K

GA K

R R GA K

VVV QSA 1

AS

QSY 25 K QSY 25 K K

VVV K

QSY 49 QSY 49

VV K K

QSA 1 QSY QSY 59 QSY 59

VV K K

VV K QSY M EEEE QSY 59 K

QSY VVV K K

GA GA

RPT 04W K K

RPT 1... (Some sort of data mode drowning out station)

RPT 45W K

RPT

OK GA

VVV RPT 64W K

RPT RPT 64W K

RPT 64W K

RPT 64W K

R R 64W GA K

64W GA K

RPT 1W TO 5 EEEE RPT 01W TO 05W K

RPT 51W K

RPT 75W K

RPT 75W K

R OK

EEE R QSL 1624 K

QSL 1825 1824 K

EEE QSL 1834 1834 K

HR WK NR 23 K

R HR NIL SK SK

GB

5454 kHz, 26-04, 1107 UTC

VV PN6 DE 59CM K

VV PN6J DE 59CM K K

VV 89OF DE 59CM K K

R

VV BN.M DE ..C3D

R R (Other station also on this frequency)

HR UF GA GA

GA K

R FF NR 2701/EX 1910 RMKS CQ K

GA

= DFA2/QFM7 AR

= = DRA2/QF... K K

R QSL 191.

R QSL 1911 HR MSG K

GA K

R 7G NR 2702 CK 45 42 0426 1912 RMKS CQ K

GA

5U4A .6U6 .D.4T. (Cont'd) AR

R R R RPT 4.. 42 = = NID 3.4U AR K

R RPT 16W = U7AT AR K
 R RPT 20W = = D.U3 AR K (Cont'd repeat groups)
 QSL 1917 QSL 1917 K
 HW WK NR 266 HR WK NR 266 K
 R GB
 VV L9JP DE ..FC K
 R QSA ? K (Other station also on this frequency)
 R QSA ..
 R IEC = 4430 K
 IEC = AR K
 R U F GA K
 NR 0.41/EX 1931 RMKS ..14 TO .993 K
 R =
 = M1/QAH5 AR
 = ANM1/QAH5 AR K
 R QSL 1932 K
 R HR MSG GA K
 GA K
 7G NR 2703 CK 77 85 0426 1933 RMKS 1993 TO 1014 K
 674U A73U T5T7 A56D 5T4T (Cont'd) AR K
 RPT K
 N RPT 6W TO 1.W K
 R RPT 6W TO 10 W = TNT6 A6T4 5UT4 .UT6 3DA7 AR K (Cont'd to repeat)
 R QSL 1939 K
 R U MSG GA
 7G NR 0842 CK 94 85 0426 1940 RMKS 1014 TO 1993 K
 R = =
 3N6. 75NU TUND. (Cont'd)
 AR (Repeats groups)
 R QSL 1948 K
 MSG GA
 HR WK NR . K
 R
 U QRW 101302 NR .P HW K
 R R GB
 GB

5126 kHz, 28-04, 1545 UTC

U QSY 21 U QSY 21 K
 R HR 7G 2 K (Extremely noisy frequency)
 R GA
 N RPT 4W TO 5.W K
 R RPT .0W K
 OK GA
 R RPT .5W K
 R RPT 05W K
 R RPT 2.W (Cont'd to ask for repeats)
 R OK QSL .001 K
 MSG NR 3. CK .01 89 0428 .310 RMKS 6097 TO .650 K
 MSG GA = =
 4AAU 6D6U 35TN A536 3U6A (Cont'd)

3777//4532 kHz, 30-04, 1312 UTC, i.p.

53D5 3TN7 NN67 NTN3 3N7T 7NTN (Cont'd) AR
 CQ /5221 5429 5280 MSG
 NR 5106 CK 93 40 0430 2110 RMKS ...6 5221 5429 5280 =
 3AT7 3N5U ANA4 T5NT U463 T4TA (Cont'd) AR
 V M8JF (x3) DE RIS9 (x2)



M95

4364/8073 kHz, 04-04, 1136 UTC

V BNGC (x3) DE XSV85 (x2)
HR 7G GA
NR 0309 CK 165 35 0404 1548 =
TT4 3U6 3AN 3U. (Cont'd)

4243/9054 kHz, 04-04, 1147 UTC

VV HR MSG TO YR PSE CY
NR 013 CK 25 35 0404 1445 =
5TD UTT TT4 3U6 3A4 353 N3D 354 365 36T
4AA N3D 4T7 U7U N4A 445 466 3DA TTU TT3
773 446 467 3D3 4DU AR
MSG AGN
NR 013 CK 25 35 0404 1445 = (Repeats message) AR
A HR MSG GA
NR 08 CK 175 35 0404 1615 =
UTU TT4 3U6 3A4 TTU 773 354 336 N3U 373 (Cont'd) AR
MSG AGN
NR 08 CK 175 35 0404 1615 = (Repeats message) AR
A HR 7G GA
NR 018 CK 15 35 0404 1626 =
UT5 TT4 3U6 3A4 TTA TTU TT3 773 357 37U
36U 4T7 446 4D4 3DU AR
MSG AGN
NR 018 CK 15 35 0404 1626 = (Repeats message) AR
A HR UP SB WK

4243/9054 kHz, 05-04, 1146 UTC

VV HR 7G TO YR PSE CY
NR 015 CK 20 35 0405 1516 =
5TD UTT TT5 3U6 3A4 353 36T 4T5 N3D 4A5
U7U N4A 444 3DA TTU TT3 773 446 3DU 4DD AR
7G AGN
NR 015 CK 20 35 0405 1516 = (Repeats message) AR
A HR MSG GA
NR 021 CK 19 35 0405 1619 =
UT5 TT5 3U6 3A4 TTA TTU TT3 773 354 N3D
35U 36U 4UT 33U N3D 4AD 445 4D4 3DA AR
7G AGN
NR 021 CK 19 35 0405 1619 BT (Repeats message) AR
A HR MSG GA
NR 10 CK 127 35 0405 1655 =
UT 5 3U6 3A4 ATU 773 354 (Cont'd)

4364/8073 kHz, 05-04, 1136 UTC

V BNGC (x3) DE XSV85 (x2)
HR MSG GA PSE CY
NR 0310 CK 175 35 0405 1534 =
TT5 3U6 3.N 3.7 TAU 773 TA7 773 TAD 773 (Cont'd)

8660 kHz, 05-04, 1033 UTC, i.p.

05

W.. ? (Both stations on this frequency)

= .OGPRUCNKKVW ? 4A.PUFUCBTLWSKRVZDSS TZDEW HNKNTCEMZFFP..BD FL (Cont'd)

AR K (Groups all runned together)

41W .. F

41W

HZHZF (Appears to be sending 5 letter code)

= GA

NW NW FM.

AS AS

C

NR 026 57 = ?

= = OWNXP DJYAB DQUDM WJ... (Cont'd)

AR HW

52W

52W S.VQM

46W

45W

45W HMCAI

NR 027 57 = =

ISXCM SVLZD XSUUM BCINQ (Cont'd) AR

R

NR 028 57 =

GA

.HFFD HWSZO WADAL DRDKW (Cont'd) AR

43W

1W

..FFD

GA

NR 029 57 = (Although all numbers runned together, appears to be 57 groups per message) =

QOTAB .XEB IQPDO (Cont'd) AR

48W

TQEGY

11W

VECGT

OK GA

NR 030 58 NR 030 58 ? =

TUMKG DTWWL SKHPC ZKTSL (Cont'd) AR

33W

BUXLQ

QSL QTC ?

33W

W .33

..XLQ

QSL ? QSL ?

AS AS AS

HR QSL QTC 27

WWW

.. ?

QSL QTC 29

QTC 40W II QTC 30 K

AS AS

HR QSL QTC 30

QSL QRX VA VA

4364//8073 kHz, 06-04, 1138 UTC

V BNGC (x3) DE XSV85 (x2)
HR MSG GA PSE CY
NR 0312 CK 178 35 0406 1525 =
TT6 3U6 3AN 3U7 TAU 773 TA7 773 TAD 773 357 (Cont'd)

8990 kHz, 06-04, 1028 UTC, i.p.

= = P2QT/G8VZ AR K
= = PU EEEE = = P2QT/G8VZ
IEC IEC = = 3655 AR K
IEC IEC 3655 AR
RMKS RMKS NMKS RMKS RMKS RMKS 7436 TO 8597 TO
RMKS RMKS RMKS RMKS 5301 TO 5694 TO 6028 TO 6421 TO 6755
= RMKS GR OK MKS 7482 TO 7875 TO 8329 TO 87.2 TO 93
RMKS RMKS RMKS 8256 TO 8670 TO 9083 TO 9497 TO 9910 TO 1032 CCK
CCK CQ EEEE CCK CCK CCK CCK

4243//9054 kHz, 06-04, 1144 UTC

VV HR 7G TO YR PSE CY
NR 017 CK 20 35 0406 1416 =
5TD UTT TT6 3U6 3A4 35U N3D 353 36T 45N
U7U N4A 444 3DA TTU TT3 773 435 3DU 4D4 AR
7G AGN
NR 017 CK 20 35 0406 1416 = (Repeats message) AR
A HR 7G GA
NR 12 CK 122 35 0406 1615 =
UTU TT6 3U6 3A4 TTU 773 353 DN7 36T 4TN (Cont'd) AR
7G AGN
NR 12 CK 122 35 0406 1615 = (Repeats message) AR
A HR 7G GA
NR 024 CK 17 35 0406 1652 =
UT5 TT6 3U6 3A4 TTA TTU TT3 773 457 75D
36T 4AN N3D 4AD 445 4D4 3DA AR
7G AGN
NR 024 CK 17 35 0406 1652 = (Repeats message) AR (
A HR UP SB WK AR AR

8925 kHz, 07-04, 1230 UTC, i.p.

GCVXD VTNCU NQYJO KETVP YMEMJ WEGCV GNWKU (cont'd) AR
QSL GET (Other station also on this frequency)
NR 03369 NR 03369 CK 62 = =
NET
SKYME GJWIP WRLZQ GNFBVX UNTZL OGIMN (Cont'd) AR W
QSL GET
NR 03469 NR 03469 CK 62 = = =
JEDUY XDNIJ (Cont'd) AR
4OW 4OW FMFGK FMFGK
ZNQEV ZNQEV
47W 47W PPGHW PPGHW (Cont'd repeating groups)
QSL GET
NR NR 03569 03569 CK 62 = =
TMIUG ZVFNI (Cont'd) AR W
19W 19W US.HG USKHG
61 II 61W
N
61W
BJWFM
YJSBSY
CGFBP
QSL GET

NR NR 03669 NR NR 03669 CK 62 62 = =
 FONHQ LWBGI EKFEF JBRXG DLCHP KRMBM (Cont'd)
 AR W
 AS AS
 L S S S
 QSL GET
 R
 S QSL GET
 AS
 OK AS
 NR R VA
 NR
 R R
 NR 03769 NR 03769 CK 62 = =
 PKVOO LHJDA GTCUZ KCPYG (Cont'd) AR W
 QSL GET
 NR 03869 NR 03869 CK 62 = ? =
 QOQET VZJNH FXQAC PBKXY (Cont'd) AR W
 QSL GET
 W
 QSL GET
 NR 03969 NR 03969 CK 62 = ? =
 RLTWV OTTJR ANWCW PWTMX CFUNW (Cont'd)
 AS
 II 49W FM
 49W UPKEN KGWQO REGSP (Cont'd) AR W
 61W
 YL....
 QSL GET
 NR NR 04060 NR 04060 CK 62 = ? =
 WMNR BHHW TETAM (Cont'd) AR W
 2W
 .HHW TBHHW T
 3W
 3W TETAM TEAM
 QSL GET
 NR 04160 NR 04160 CK 62 = =
 GTBVV ZQRXF GHGEA (Cont'd) AR W W
 QSL GET
 NR 04260 NR 04260 CK 62 = =
 LRYAM F.VMQ OVOWF WDDJO (Cont'd)
 AS
 R AS
 W
 4.W
 46W FM
 46W C.... KVYFL RYNQE INIAZ (Cont'd)
 AR W
 II ...W
 24W
 24 FG.ZE FGXE
 34W
 KNPGN KNPGN K
 QSL GET
 NR NR 04360 NR 04360 CK 62 = =
 GNSEG PQEMY MKHKE (Cont'd)

8925 kHz, 07-04, 1713 UTC, i.p.

XNXVF .TMPI PWZUS FWXAU (Cont'd) AR W
 9W (Other station also on this frequency)

PTMGG PTMGG
2.
YVKKA YVKKA
36
ABSSA ABSSA (Cont'd to repeat groups)
QSL GET
W
NR 07763 CK 62 = =
..UUA OILSC SDFCH (Cont'd) AR W
34
CTKUO CTKUO
3
AW
JOFEE
QCJEC QCJEC
QSL GET
NR 07863 CK 62 =?
=
J.YQL DTP.W BBBVP CEZFB =
JEYQL BBBVP CEZFB (Cont'd) AR W
MCADB
46
VSEHQ
61
WDID.
QSL GET
NR 0763 CK NR 07963 CK 62 = ?
AS AS
R R V ==
NR 07963 =
QBEZO PXDNQ AH.LX (Cont'd) AR W
21
VEVEX VEVIX
ZD.YZ
25
CAVEO CAVEO
SIATE SIATE
47
HWNNU. HWNUR
5.
DGYQV
58
IFZI.
IFGUJ
QSL GET
NR 080643 CK 62 = ?
GA =
FTCFR XYGAW DMJOG NJMOV (Cont'd) AR W
25
PEFGD PECGD
.5
NMCX
?
NMNCX NMNCX
39
DDBNY DDBNY
59
DM DPZCB
W
82

W
YQQ VDYQQ
QSL GA
NR 08164 NR 08164 CK 62 = =
UJIOR HGCZX EHAVO QHDSI (Cont'd) AR W
SJ.SE
GTBJ GTBJ ..
GDLLW
GZ
6..
XRSWD
QSL GA
AS
00
R R
R GA
NR 0 NR NR 08264 = ? =
AIIZG J.WSG JXPIJ PLMIS (Cont'd)

3210 kHz, 10-04, 1452-1540 UTC

1452 UTC XJ6O de MGA7 QSA 3 QSA ? K
XJ6O de MGA7 OK MSG GA
XJ6O de MGA7 R RPT 18 K
XJ6O de MGA7 R QSL 2300 K
1504 UTC XJ6O de MGA7 HR WK NR 37 K
XJ6O de MGA7 R PSE CY R PSE CY
XJ6O de MGA7 MSG NR0410/CCK CK 19 67 04 10 2300 RMKS 5676 TO AU34 =
U345 6503 A56A 656D 73UD 4A73 A07D ... / ...
1513 UTC XJ6O de MGA7 R CY HW K XJ6O de MGA7 R QSL ? K
1519 UTC EZQL de DF3U K EZQL de DF3U QSA 3 QSA ? K
1525 UTC EZQL de DF3U R HR MSG GA K
1528 UTC EZQL de DF3U NR 0419/CCK CK19 87 04 10 2327 RMKS 1234 TO 467D = 3D45 U80A 46A0 543A ... / ...
1534 UTC EZQL de DF3U R QSL ? K EZQL de DF3U R OK MSG GA K
1540 UTC EZQL de DF3U R RPT 19 K EZQL de DF3U

Net control on 3376 kHz

3376 kHz, 10-04, 1702 UTC

RMS8 (x3) de D2HU (x2) V
R Y5EK QSA 3 QSA ? K AS CL DE
R 5IIU QSA 2 QSA ? K AS CL DE
R D5WH QSA 3 QSA ? K AS CL DE
R YLDJ QSA 2 QSA ? K AS CL DE
R JDS5 QSA 2 QSA ? K AS CL DE
R 6YRT QSA 3 QSA ? K AS CL DE
R SEV4 QSA 3 QSA ? K AS CL DE
R JKYS QSA3 QSA ? K AS CL DE
R QSA 3 QSA ? K AS CL DE
R KTS1 QSA 1 QSA ? K AS CL DE
R WRJ3 QSA 3 QSA ? K AS CL DE
R IU5T QSA 2 QSA ? K AS CL DE
HR HR CCK MSG NR NR 199/CCK CK N9E3 A4E1 0100 RMKS CQ =
USA7 T3D5 N... 5DA6 U63D ... / ...
R5LD K
OK QSL QSL 0220 0120 K

Outstations on 3056 kHz

3056 kHz, 10-04, 1723-1738 UTC

VVV VVVV D5WH
R VVV TE2Y DE F2JK QSL 0123 0123 K NIL SK GB
VVV 6Y..
VVV TE2Y DE 6YRK QSL 0124 0124 K NIL SK GB
VVV JDS5
R VVV TE2Y DE JKS1 QSL 0124 0124 NIL SK GB
VVV VVV SEW4 K NIL SK GB
TE2Y DE 6BIN QSL 0127 0127 K NIL SK GB
VVV JKY5 K
TKS NIL SK GB
VVV 5UIK K
TE2Y DE QSL 012.
VVV HEDJ
R VVV TE2Y DE HRWD QSL 0130 0130
VVV WRJ3 K
R VVV TE2Y DE KISO QSL 0133 0133 K
R VVV TE2Y DE A5TV QSL 0134 0134
R VVV TE2Y DE KISO QSL 0133 0133

4364 kHz, 10-04, 118 UTC

V BNGC (x3) DE XSV85 (x2)

Appears to be having technical problems. Eventually in CW on 4364, but not on 8073 kHz

4243/9054 kHz, 10-04 1148 UTC

VV HR MSG TO YR PSE CY

NR 025 33 35 0410 1420 =

5TD UTT TAT 3U6 7T1 N44 3A4 357 473 4AA 336 N3D 4A6 U7U N4A 444 3DA

34T DND N34 446 3DA TTU TT3 773 445 3DA 34T DND N34 447 3D3 4D3 AR

MSG AGN

NR 025 CK 33 35 0410 1420 BT (Repeats message) AR

A HR MSG GA

NR 20 CK 198 35 0410 1608 =

UTU TAT 3U6 3A4 TTU 773 454 N3D 353 4TA (Cont'd) AR

MSG G A GN

NR 20 CK 198 35 0410 1608 BT (Repeats message) AR

A HR MSG GA

NR 036 CK 21 35 0410 1615 =

UT5 TAT 3U6 3A4 TTA TTU TT3 773 353 N3D

35U 4TN 445 346 N3D 4TA 446 4D6 3DA N3D 3D4 AR

MSG AGN

NR 036 CK 21 35 0410 1615 BT (Repeats message) AR

A HR UP SB WK AR

Net station : 3132 kHz - Outstations : 3366 kHz

3132 kHz, 11-04, 1708 UTC, message i.p.

3366 kHz, 11-04, 1708-1738 UTC

W1RX R OK QSL 0120 0120 K. NIL SK GB

SW4K

R VVV TE2Y DE 5KKN QSL 0121 0121 K. NIL SK GB

YLD2 K

VVV TE2Y DE R5JY QSL 0122 0122 K. NIL SK GB

JKY5 K

VVV TE2Y DE JKHZ QSL 0124 0124 K. NIL SK GB

6YRT K

VVV TE2Y DE 5RWU QSL 0125 0125 K. NIL SK GB

IU5T K

VVV TE2Y DE 2TEP QSL 0126 0126 K. NIL SK GB

D5WH

R VVV TE2Y DE F2JK QSL 0127 0127 K. NIL SK GB

VVV JDS5 K

R VVV TE2Y DE JKS1 QSL 0128 0128 . NIL SK GB

WPJZ K

R VVV TE2Y DE USI2 QSL 0130 0130 . NIL SK GB

KTS1 K

10210 kHz, 11-04, 1530 UTC, i.p.

RPT 11W TO 14W = 7DA. ..45 DAN 6.. AR K

R U 7G GA K

RPT 1W K

RPT 08W K

RPT 35W K

RPT 43W K

R QSL 2339 K

R SK SK

VVV VVV = = 7G NR 364 CCK CK 95 0812 31 RMKS 2529 TO 2569 K

= = 3.U3. 33960

R = =

7G

VVV 7G 7G NR 03 NR =

3 = 3NCT A574 DUN. 6U43 7A5D D7TU T545. (Cont'd)
R QSA 2 QSA ? K
R C EEEE R IEC = 9967 AR K
R HR NR 122 K
R HR MSG GA K
7G NR 009/CCK CK 75 50 0411 2330 RMKS 2529 TO 25226 K
NR 009/CCK CK 75 50 0411 2330 RMKS 2529 TO 2524 K
R =
U... 635UT .N... AR K

3132 kHz, 13-04, 1700 UTC

IEHC (x3) de D2HR (x2) V
TE2Y QSO with outstations on 3366 kHz
W1RX 5KKN R5JY JKHZ 5RWD 2TEP F2JK JKS1 USI2
HR MSG NR 215/CCK CK 99 63 04 14 0130 RMKS CQ AR = U3TA ND4 H43A A4E4 ... / ... AR K

D2HR calling all outstations to acknowledge receipt of the message:Y5EK SW4K YLD2 JKY5 6YRT IU5T D5WH JDS5 WPJZ
Stations W1RX 5KKN R5JY JKHZ 5RWD 2TEP F2JK JKS1 USI2 acknowledge receipt of the message (Callsign net control: TE2Y)
After the acknowledgment each outstation sent: NIL SK GB

7533//9153 kHz, 13-04, 0938 UTC, i.p.

354 373 N3D 353 4AD 445 (Cont'd)
II 445 N3D 446 467 4DD TAT (Cont'd)
MSG AGN
NR 309 CK 182 35 0413 1512
4DA UT3 TA3 3U6 TT4 773 3AD 354 373 N3D (Cont'd)
A HR MSG GA
NR 307 CK 138 35 0413 0718
4DA UT3 TA3 3U4 3A4 TT4 773 357 37U 4AA (Cont'd)
II 773 354 37U 4T3 436 467 (Cont'd)
MSG AGN
NR 307 CK 138 35 0413 0718
4DA UT3 TA3 3U4 (Cont'd repeat message)
ZNN SK

7533//9153 kHz, 13-04, 0938 UTC, i.p.

354 373 N3D 353 4AD 445 (Cont'd)
II 445 N3D 446 467 4DD TAT (Cont'd)
MSG AGN
NR 309 CK 182 35 0413 1512
4DA UT3 TA3 3U6 TT4 773 3AD 354 373 N3D (Cont'd)
A HR MSG GA
NR 307 CK 138 35 0413 0718
4DA UT3 TA3 3U4 3A4 TT4 773 357 37U 4AA (Cont'd)
II 773 354 37U 4T3 436 467 (Cont'd)
MSG AGN
NR 307 CK 138 35 0413 0718
4DA UT3 TA3 3U4 (Cont'd repeat message)
ZNN SK

9054 kHz, 14-04, 0905 UTC, i.p.

4D4 AR
A HR MSG GA
NR 048 CK 14 35 14 1537 =
UT5 TA4 3U6 3A4 TTA TTU TT3 773 356 36U 4AD 445 4D3 3DA AR
A HR MSG GA
NR 28 CK 144 35 0414 1640 =
UT. TA4 3U6 3A4 TTU N44 TT3 773 353 N3D (Cont'd) AR
A HR UP WK

4243//9054 kHz, 15-04, 0913 UTC, i.p.

U7U N4A 444 3DA TTU TT3 773 435 (Cont'd) AR
A HR MSG GA
NR 30 CK 145 35 0415 1635 =
UTU TA5 3U6 3A4 TTU 773 357 34A N3U (Cont'd)

4364//8073 kHz, 16-04, 1137 UTC

V BNGC (x3) DE XSV85 (x2)
HR MSG GA PSE CY
NR 0332 CK .94 35 0416 1613 =
T63U6 3AN 3U7 TAU 773 353 363 4AD (Cont'd)

4243//9054 kHz, 16-04, 1148 UTC

VV HR 7G TO YR PSE CY
NR 037 CK 20 35 0416 1517 =
5TD UTT TA6 3U6 3A4 354 373 4NN N3D 4A5
U7U N4A 445 3DA TTU TT3 773 446 3D3 4D3 AR
7G AGN
NR 037 CK 20 35 0416 1517 = (Repeats message) AR
NR 054 CK 18 35 0416 1630 =
UT5 TA6 3U6 3A4 TTA TTU TT3 773 354 373
36U 33U N3D 353 4AD 435 4D4 3DA AR
7G AGN
NR 054 CK 18 35 0416 1630 = (Repeats message) AR
A HR 7G GA
NR 32 CK 181 35 0416 1633 =
UTU TA6 3U6 3A4 TTU 773 354 373 N3D 353 (Cont'd)

8130 kHz, 16-04, 0807 UTC

HPQV (x3) de RPLC (x2) VVV
HR MSG NR 32/CCK CK 28 39 04 16 1600 RMKS 5594 TO 9661 9334 0255 1433 9940 =
U3DU NAAT NA6U ... = (repeats message 2x)
HR MSG 450 NR2205
NIL SK

3132 kHz, 17-04, 1700-1733 UTC. QSX 3366 kHz

IEHC (x3) de D2HR (x2) V
TE2Y QSO with outstations 5KKN R5JY JKHZ 5RWD 2TEP F2JK JKS1 USI2
HR MSG NR 213/CCK CK 99 63 04 17 0100 RMKS = CQ AR =
N35D TA7D 63D7 T75N 3A75 ... / ... AR K
D2HR calling all outstations Y5EK SW4K YLD2 JKY5 6YRT IU5T D5WH JDS5 WPJZ
All outstations acknowledge receipt of the message. Ends with
NIL SK GB

7553//9153 kHz, 18-04, 0956 UTC

4UT 446 467 (Cont'd)
III N3D 4T3 445 4D3 75D 4DU (Cont'd)
MSG AGN
NR 322 CK 145 35 0418 0659
4DA UT3 TAD 4U4 3A5 (Stopped in middle of message)
4D3 N3D 3DU TTD 773 353 4AN (Cont'd)
ZNN SK

4364//8073 kHz, 22-04, 1140 UTC

V BNGC (x3) DE XSV85 (x2)
HR MSG PSE CY
NR 0351 CK 241 35 0422 1542 =
TUU 3U6 3AN 3U7 TAU 773 TA7 773 TU5 773 357 (Cont'd)

4243//9054 kHz, 22-04, 1142 UTC

V HR 7G TO YR PSE CY
NR 049 CK 20 35 0422 15.. =
5TD UTT TUU 3U6 7TA N44 3A4 35U 4AA U7U
N4A 446 467 3DU TTU TT3 773 447 3D4 4D3 AR
7G AGN
NR 049 CK 20 35 0422 1509 = (Repeats message) AR
A HR 7G GA
NR 44 CK 150 35 0422 1627 =
UTU TUU 3.6 3A4 TTU 773 35A N3D 353 4TN (Cont'd) AR
7G AGN
NR 44 CK 150 35 0422 1627 = (Repeats message) AR
A HR MSG GA
NR 072 CK 27 35 0422 1601 =
UT5 TUU 3U6 3A4 TTA TTU TT3 773 356 474
.36 4D7 33U 446 TTA 773 33U 33N N3D 4TA
446 4D6 N3D 4D3 3D3 N3D 4DU AR
7G AGN
NR 072 CK 27 35 0422 1701 = (Repeats message) AR
A HR UP SB WK

7553 kHz, 23-04, 1320 UTC

BNEC DE XSV70 (Cont'd)
HR MSG TO YR PSE NOTE CY
NR 20 CK 42 49 0423 1700
364 U7D 7TT 4DN 4D6 7TT 7U4 77T A76 75T (Cont'd)
MSG AGN
NR 20 CK 42 49 0423 1700
364 U7D 7TT 4DN 4D6 (Repeats message)
A HR MSG GA
NR 338 CK 83 35 0423 1518
4DA UT3 TU3 3U6 3A4 TT4 TT5 TT6 773 353 4AA (Cont'd)
MSG AGN
NR 338 CK 83 35 0423 1518 (Repeats message)
A HR MSG GA
NR 339 CK 184 35 0423 1518
4TA UT3 TU3 3U6 TT4 TT5 TT6 773 3AD 353 (Cont'd)
MSG AGN
NR 339 CK 184 35 0423 1518 (Repeats message)

4364//8073 kHz, 24-04, 1137 UTC

V BNGC (x3) DE XSV85 (x2)
HR MSG GA
NR 0355 CK 232 35 0424 1554 =
TU4 3U6 3AN 3U7 TAU 773 TA. 773 453 (Cont'd)

4243//9054 kHz, 24-04, 1146 UTC

VV HR MSG TO YR PSE CY
NR 053 CK 25 35 0424 1426 =
5TD UTT TU4 3U6 7T3 7TA N44 3A4 354 374
N3D 353 4TN N3D 4A5 U7U N4A 445 3DA TTU
TT3 773 446 3DU 4D3 AR
A HR MSG GA
NR 48 CK 139 35 0424 1550 =
UTU TU4 3U6 3A4 TTU 773 35A N3D 353 4TA (Cont'd) AR
NR 078 CK 22 35 0424 1646 =
UT5 TU4 3A4 TTA TTU TT3 773 453 N3D 35U
4TN 3.. 4TA 446 34A N3U 445 4D3 3DU N3D 3DA AR
A HR UP SB

7553 kHz, 25-04, 0922 UTC

BNEC DE XSV70

A HR MSG TO YR PSE CY

NR 344 CK 154 35 0425 1548

4DA UT3 TU5 3U6 3A4 TT4 773 354 37U N3D (Cont'd)

MSG AGN

NR 344 CK 154 35 0425 1548

4DA UT3 TU5 3U6 3A4 TT4 773 354 37U N3D (Cont'd repeat message)

A HR MSG GA

NR 345 CK 183 35 0425 1548

4DA UT3 TU5 3U6 TT4 773 3AD 353 4T3 N3D (Cont'd)

MSG AGN

NR 345 CK 183 35 0425 1548

4DA UT3 TU5 3U6 TT4 773 3AD 353 4T3 N3D (Cont'd - repeat message)

A HR MSG GA

NR 343 CK 159 35 0425 0615

4DA UT3 TU5 3U4 3A4 TT4 773 354 37U N3D (Cont'd)

7553 kHz, 30-04, 1324 UTC, i.p.

466 4D6 33D 75D 4DU 3DU TTD 773 35A (Cont'd)

III 3DU TAD 773 35A U46 353 4T3 (Cont'd)

A HR MSG GA

NR 360 CK 204 45 0430 1512

4DA UT3 T3T 3U6 TT4 773 3AD 357 4A7 N3D (Cont'd)

MSG AGN

NR 360 CK 204 45 0430 1512

4DA UT3 T3T (Cont'd repeat message)

III 467 4D6 75D 4D3

ZNN SK



Chinese coastal stations

XSV: Tianjin Radio, XSG: Shanghai Radio and M95 are sending similar messages. Most likely weather reports.

8600 kHz, 09-04, 0650 UTC. XSV - Tianjin Radio

N/W XSV NR 015 CK 075 07 1450 =

76U7 5300 6UU6 =

0127 KK 5U6A KN4 KK

U5DD KN9 KK

U4DT KN02 10 KK

U5A4 5U67 KN4 KK

A5DD KN10 KK

U4DT KN1200 KK

U5A4 0554 3ADN U4T5 KN112 KK

6544 UA5A 3A4A 3D43 7463 5307 A7D3 3533 066N 3U63 5U67 7DN3 0656 3U63 UA5A A60A 4NU0 70UU KN400 KK

47A7 5300 6643 KN4 KK

4634 0T6A 0AA0 0007 0360 7DU0 6647 4D4D 5300 5DD7 KNA KK

937

= 36.0N/121 = 27.0E KK KNB KKK KN37

= 39.0N/121 = 25.4E KK KNC KK KN37

= 5818N/141 = 00.0E KK KND KK KN38

= 04.5N/200 = 27.0E KKK KNE KK KN37

= 40.5N/120 = 10.0E KK KNF KK KN37

= 39.0N/120 = 12.0E KK

AS4... 0677 53 ... 037 5A37 =
66NN 6U45

NR 012 CK 042 07 1921 =
76U7 5300 6UU6 KN0126 KK
7DT6 3ADN U4D0 35D4 3U63 KN106 KK
57A4 35N7 3AD7 UD7A KN35
= 19 = 21.7N/119
= 35 = 15.6E KK
A57A AD63 V7DD AN73 A603 A3U7 6N06 76U7 5300 6UU6 KN0125 KK
A5D5 0687 5300 5307 5A37 AN4U

N/W XSV NR 011 CK 044 06 1731 = 0370 5300 6UU6 KN0055 KK 3U5D 3ADN UU07 A03U KN39
= 29.9N/119 = 19.8E KK
7TN6 6604 A3A7 0N6A 3055 0007 7A40 4UN3 3670 0AA0 KN39
= 29.5N/119 = 19.8E KK
3634 0N55 AD00 KN1 KK
3ADN 6D4N 3634 05D4 A777 43NA UN7U 5307 5306 665A 0354 0735 6N3A 3AU4 A5D5 0677 5300 5307 3A37 AN4U

N/W XSV NR 002 CK 054 01 1025 =
76U7 5300 6UU6 KN0020 KK
7DK5 3ADN 3AD5 3ADN KN0008 KK
6544 0060 KN2017 KK
06UD KN4 KK
U5DD KN3 KK
U4DD KN0000 KK
U5A4 5U67 KN4 KK
U5DD 98 KK
U4DT KN0000 KK
U5A4 0N6A KN844 TN34 70U0 6647 5D4D 3055 AA0D 0355 U457 A56U 0A55 UDA4 KN KKK 937
= 37.35N/122 = 17.25 KKK KNB KK KN37
= 37.30N/122 = 19.36E KK KNC KK KN37
= 29.05N/122 = 19.24E KK KND KK KN37
= 33.12N/122 = 13.12E KK
A5D5 0677 5300 5307 3A37 AN4U AR
DE XSV SK

8600 kHz, 09-04, 0822 UTC. XSV - Tianjin Radio

CQ CQ DE XSV NR 12
N/W NR 20 = NAVIGATION WARNING NR 012 TO ALL STATIONS =
SD0118 SEA DONGJIAKOU PORT 1 EXCLUSIVE ANCHORAGE FOR LONG SHIP ONLY ...

8600 kHz, 27-04, 0809 UTC. XSV - Tianjin Radio

N/W XSV NR 026 CK 034 12 1429 =
T33T 53TT 6UU6 (0064) 3U5D 3ADN T7DA (Cont'd)
AR XSV SK

12856 kHz, 27-04, 0712 UTC, XSG – Shanghai Radio i.p.

AR
NEXT BT N/W NR 166 =
N/W XSG NR 166 CK 41/37 26 1618 = =
3337 43TT 6UU6 (0315) 7DT6 3AD4 (Cont'd) AR
NEXT BT N/W NR 165 = =
N/W XSG NR 165 CK 65/61 26 1613 = =
3337 53TT 6UU6 (0414) 7TUU 4T6D TD56 (4) I RE AU (Having problem with TX)
AE6544 7TUU (320) 47A7 A4TA (Cont'd) AR
DE XSG VA

8600 kHz, 28-04, 0726 UTC, Tianjin Radio i.p.

N/W XSV NR .67 CK .3 23 2004 =
..170540 AA3. 3A6T 3.63 (Cont'd)
N/W XSV NR 06.. CK 024 .. 2001 =
3A6T .17053 CK 3. 31D. UUT7 (Cont'd)
N/W XSV N 064 CK 163 21 ...8 =
.6U7 53TT ..U6 (0.4.) 66TU U6TA 7.T6 (Cont'd)
N/W XSV NR 054 CK 056 19 0938 =
7.TT ... 6UU6 (0..3) 6.... (Cont'd)
N/W XSV NR 053 CK 0.. 19 0837 =
.A6T .1705 (0...) (Cont'd)

12856 kHz, 28-04, 0705 UTC, Shanghai Radio i.p.

AR
NEXT BT N/W NR 175 = =
N/W XSG NR 175 CK 60/54 27 2208 = =
7T44 53TT 6UU6 (0025) T66N 34N4 3ADN A4NN (Cont'd) AR
NEXT BT N/W NR 174 = =
N/W XSG NR 174 CK 50/49 27 1948 = =
3337 53TT 6UU6 (0420) 7TUU 3T6D T6T6 T4DU (Cont'd) AR
NEXT BT N/W NR 173 = =
N/W XSG NR 173 CK 70/55 27 1614 = =
66N7 53TT 6UU6 (0050) 3U5D 3ADN 3ADN A4NN (Cont'd) AR
NEXT BT N/W NR 172 = =
N/W XSG NR 172 CK 85/79 27 1517 = =
3337 53TT 6UU6 (0419) 7TUU 3T6D T656 (4) (Cont'd) AR
NEXT BT N/W NR 171 = =
N/W XSG NR 171 CK 102/97 27 1511 = =
3337 53TT 6UU6 (0318) 7TUU (Cont'd) AR
DE XSG VA



UM03 - X2M

Example of the CQ schedule at 0830 UTC:

CQ CQ CQ DE X2M X2M VVV
CQ CQ CQ DE X2M MSG MSG ENG ENG
CQ CQ CQ DE X2M X2M VVV
CQ CQ CQ DE X2M MSG MSG ENG ENG MSG ENG
2131 CK 100 CK 100 TIME 1648 TIME 1648 DATE 2912 DATE 2912 =
UNN5A 4UAD5 N4T63 7U43N A7UD4 (Cont'd) AR

Possibly one of the outstations of X2M

10178 kHz, 08-04, 1115 UTC

II II CH NR 07 NR 07 CK 44 CK 44 TK TK DATE 0804 TIME 1830 TIME 1830 = =
83683 49902 51417 52286 51335 52141 50176 49043 69827 50791
50556 49014 50968 50556 49024 50775 49708 50264 50791 49415
49243 49908 49733 49729 50264 49708 50264 49915 49047 50788
49708 49514 50791 49902 49719 50798 49729 49722 50775 49708
50653 72181 50567 49037 AR AR ZNN K K K
OK VA OK VA
VA T VA T

10217 kHz, 10-04, 0959 UTC, i.p.

D1P MSG MSG CH CH K (
VVV (x 2) 3RT (x3) DE D1P (x3) MSG (2) CH (x2) K K
VVV (x2) 3RT (x3) DE D1P (x3) MSG (x2) CH (x2) K K

7920//8250//8410 kHz, 11-04, 0948 UTC, i.p.

AR
07 07 CK 100 CK 100 TIME 1547 TIME 1547 DATE 1104 DATE 1104 =
.4. 435.. (Cont'd

7920//8250//8410 kHz, 13-04, 0919 UTC, i.p.

AR
17 17 CK 100 CK 100 TIME 1619 TIME 1619 DATE 1304 DATE 1304 =
NT6U. 3NT6U T6374 U7D45 D43AN 6U4DA (Cont'd) AR
19 19 CK 100 CK 100 TIME 1624 TIME 1624 DATE 1304 DATE 1304 =
7.A4T .A... . 7354 (Cont'd)

7920//8250//8410 kHz, 14-04, 0924 UTC, i.p.

AR
99 99 CK 100 CK 100 TIME 1623 TIME 1623 DATE 1404 DATE 1404 =
3NT6U 7U43N U4NT6 764AD 5ANT7 (Cont'd) AR
ZOM15
CQ (x3) DE X2M (x2) VVV (x3) MSG (x2) ENG (x2)
CQ (x3) DE X2M (x2) VVV (x3) MSG (x2) ENG (x2)
61 61 CK 100 CK 100 TIME 1631 TIME 1631 DATE 1404 DATE 1404 =
D4UAN 3NT65 73D4N (Cont'd) AR
63 63 CK 100 CK 100 TIME 1637 TIME 1637 DATE 1404 DATE 1404 =
D4TA. 7D4UA U5N6T 3N475 ADUT6 (Cont'd) AR
65 65 CK 100 CK 100 TIME 1643 TIME 1643 DATE 1404 DATE 1404 =
73N.4 673AT 3A... (Cont'd; silent in middle of message)

7920//8410 kHz, 15-04, 0924 UTC, i.p.

AR
19 19 CK 100 CK 100 TIME 1623 TIME 1623 DATE 1504 DATE 1504 =
73A4T 3A4TN A73.4 (Cont'd)

6580 kHz, 15-04, 1820 UTC, i.p.

4AS4A U4A5N UNT43 4N635 6NDU7 4NNA5 4NTA4 5TN6D 4NNA5 4NTU4 5T775 4N7TD 4NAAA (Cont'd)

9128 kHz, 15-04, 1835 UTC, i.p.

50775 4N7AN 5T466 4N7UU 4N7UU 4N7TD 4N7UN 5T775 4N7TD
4N337 5T775 5T775 5T35T 5TU57 4635N AR

7474 kHz, 18-04, 1110 UTC, i.p.

VVV RMQE (x3) DE YHDI (x3) = YR NR 06 MSG QSL TIME 1806 AR

7920//8259//8410 kHz, 25-04, 0920 UTC, i.p.

AR
17 17 CK 100 CK 100 TIME 1519 TIME 1619 DATE 2504 DATE 2504 =
NT.. ...



UM10 - 10-minutes net

5845 kHz, 05-04, 1010 UTC ZUBW
 4065 kHz, 05-04, 1529 UTC: NZO5 //3568 kHz. Error?
 4065 kHz, 05-04, 1658 UTC: NZO5 //3568 kHz. Error?
 4065 kHz, 06-04, 1729 UTC. NZO6
 3315 kHz, 06-04, 1737 UTC S3DN //3955 kHz
 3315 kHz, 09-04, 1805 UTC S3DN
 3568 kHz, 09-04, 1850 UTC NZO6 //4065 kHz
 4065 kHz, 10-04, 1550 UTC NZO6 //3568 kHz
 4065 kHz, 14-04, 1456 UTC NZO6 //3568 kHz
 4065 kHz, 14-04, 1629 UTC NZO6 //3568 kHz
 4065 kHz, 17-04, 1750 UTC NZO6 //3568 kHz
 7378 kHz, 17-04, 1028 UTC RVOX. New callsign and freq.
 3568 kHz, 22-04, 1751 UTC NZO6 //4065 kHz
 3568 kHz, 23-04, 1758 UTC NZO6 //4065 kHz
 3568 kHz, 30-04, 1350 UTC NZO6 //4065 kHz

DIGITAL MODES



HM01

Dirección General de Inteligencia

Modes: AM voice and RDFT

8136 kHz, 06-04, 2303 UTC HM01 sent instead of M08a

17480 kHz, 06-04, 2200 UTC

13502 62553 44102 45614 28557 70473. After data transmission a brief music ID from Radio Habana Cuba

HM01 was mainly a repeat mode this month.

April 01: Normal operation

April 02-04: Repeats of 1 April

April 05-11: Normal operation

April 12-17: Repeats of 11 April

April 18: Normal operation *)

April 19-30: Repeats of 18 April

Still repeating on 2 May

***) 11435 kHz, 18-04, 1604 UTC** (thanks Rich !)

Windows sounds, then "uno" repeated over and over till 1606 UTC, then new groups as if they never repeated the 11 April groups from 12 through 17 April, but rather continued as normal: 31104 32856 33004 83217 80619 75377

Recall:

11-04 was 13507 62558 44107 83211 80612 75371

So, Hypothetically:

12-04 13508 32851 44108 83211 80613 75371 (both 83211 and 75371 were new on 11-04)

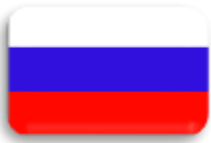
13-04 13509 32851 44109 83212 80614 75372

14-04 31101 32852 33001 83213 80615 75373

15-04 31101 32853 33001 83214 80616 75374

16-04 31102 32854 33002 83215 80617 75375

17-04 31103 32855 33003 83216 80618 75376



HM02

Modes:
FSK-19.8Bd/129Hz and FSK-CW

No transmission on 1 April.

4761 kHz, 02-04, 0420 UTC

191 47 =
05627 01316 65341 67412 12728 82640 76638 68205 73848 37818
27508 41585 15186 13160 31781 65113 43560 00047 10553 46880
43468 42543 30022 72445 28281 11346 87523 10681 63082 55604
85127 80586 01337 26184 81078 01440 75158 71332 73815 55505
51621 47256 26002 33775 77445 13718 34240
= 191 47 191 47 = repeats message = 191 47 000

4761 kHz, 03-04, 0420 UTC

121 41 =
40061 15774 82263 42941 83222 65853 94843 52693 20550 35728
42240 31708 04061 41497 56511 81070 64784 49123 89525 29625
15021 05696 13264 57283 54376 01086 14410 93523 66296 22153
23454 44065 90336 24899 45091 22998 79051 28079 23403 53456
90500
= 121 41 121 41 = repeats message = 121 41 000

4761 kHz, 04-04, 0420 UTC

803 46 =
72787 89083 41375 72059 00125 36469 88578 65014 49840 37005
40990 43098 06133 37735 37809 02196 89416 94086 58644 35972
96400 93730 02207 50318 09727 42036 25945 23569 01417 16389
76367 77742 01033 67477 19972 17895 15223 55619 52462 99908
35870 19451 46734 64262 62587 61422
= 803 46 803 46 = repeats message = 803 46 000

4761 kHz, 05-04, 0420 UTC

915 47 =
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 13761 61656 72526 35123 56258
03203 55638 10731 55610 83272 66007 72646
= 915 47 915 47 = repeats message = 915 47 000

4761 kHz, 06-04, 0420 UTC

678 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 13761 61656 72526 35123 56258
03203 55638 10731 55610 83272 66007 72646 57635
= 679 48 679 48 = repeats message = 679 48 000

Note: same message as on 5 April + one additional group and a different id.

4761 kHz, 07-04, 0422 UTC

531 44 =

82247 76594 81625 07533 74381 51275 32183 27658 91240 40617
88919 19138 92045 23700 72256 23385 17228 77443 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

= 531 44 531 44 = repeats message = 531 44 000

4761 kHz, 08-04, 0420 UTC

962 43 =

19067 93318 42856 89542 85105 97952 89535 72665 84733 32017
96533 18003 33210 00735 70189 18476 04627 07794 95345 87979
18580 55874 95284 60176 97781 18139 79252 05557 50999 60852
08168 71581 98276 56954 69140 98935 34147 60667 93200 92320
02446 96428 97902

= 962 43 962 43 = repeats message = 962 43 000

No transmission on 9 April.

4761 kHz, 10-04, 0420 UTC

960 44 =

60284 96562 81625 07533 74381 51275 32183 27658 91240 40617
88919 19138 92045 23700 72256 23385 17228 77443 13528 74699
87484 42925 74625 43452 69085 68928 06436 24737 35009 26716
81218 81208 29754 86501 59050 12535 30158 19111 55505 40365
65708 18702 86642 64752

= 960 44 960 44 = repeats message = 960 44 000

4761 kHz, 11-04, 0420 UTC

247 43 =

09720 34403 60708 07977 09660 23262 45533 45203 87440 92308
68636 09389 97607 24971 81634 45133 21886 43902 33046 86654
50829 80980 24726 24270 60298 05007 35920 47391 12552 24915
74814 97933 79898 67200 92695 33131 97489 17242 39770 21333
88599 36210 74234

= 247 43 247 43 = repeats message = 247 43 000

4761 kHz, 12-04, 0420 UTC

921 46 =

04206 45081 55355 71068 51414 13853 44197 48965 88902 38288
45051 69609 74596 73528 77114 03567 33421 10482 35976 97592
36878 01919 87380 24908 76314 52207 06943 51095 33078 49936
52942 65158 68321 97128 75185 36353 96790 02008 38300 70577
76237 82914 54572 38017 91236 50093

= 921 46 921 46 = repeats message = 921 46 000

No transmission on 13 April.

4761 kHz, 14-04, 0420 UTC

128 49 =

16413 64834 18670 83005 88871 55417 34268 08577 28422 33755
70733 76026 57437 38510 55742 73665 15823 35640 35457 55655
15513 23560 27174 21058 60213 78017 18230 71753 81311 20532
12428 54513 60138 64114 01611 87822 60347 42365 00573 15301
38100 35131 27388 03233 15837 54774 27182 85607 11742

= 128 49 128 49 = repeats message = 128 49 000

4761 kHz, 15-04, 0420 UTC

931 47 =

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
= 931 47 931 47 = repeats message = 931 47 000

Note: same message as on 5 April with a different id.

4761 kHz, 16-04, 0420 UTC

817 46 =

64146 40156 91476 36032 99065 25665 05043 73459 94992 77386
68166 93509 71631 17606 31728 58269 08498 47719 40118 77539
68283 50141 77264 78747 53742 62151 35625 17579 81603 78760
80399 13203 10290 30226 05664 81096 42846 76394 17188 77684
41685 60540 54004 02917 85549 21999
= 817 46 817 46 = repeats message = 817 46 000

No transmission on 17 April.

4761 kHz, 18-04, 0420 UTC

275 46 =

55148 73896 64069 38039 95062 29275 95422 39100 22034 98830
22522 20923 71877 74505 57145 73837 93093 29128 14126 28044
58926 10351 16148 25620 59777 75914 71696 48034 75212 27056
04844 75538 31298 86790 64569 24411 68623 24531 00264 73103
59944 41729 12225 33524 90990 85536
= 275 46 275 46 = repeats message = 275 46 000

4761 kHz, 19-04, 0420 UTC

257 42 =

03400 32973 77141 88604 28903 38525 51718 29205 37282 99365
66523 02876 11810 65819 01967 34035 82417 79434 61239 37686
99428 85995 62498 75153 57102 53424 65934 91852 62259 84490
86504 88735 43011 81254 43776 73680 01152 39353 34380 66667
42792 15139
= 257 42 257 42 = repeats message = 257 42 000

4761 kHz, 20-04, 0420 UTC

207 46 =

65005 63233 12690 31426 28339 78441 81899 59483 29391 93576
30506 10477 13920 43827 92881 69183 57981 71416 89954 16940
55594 22930 31854 59719 31505 65263 24971 93345 84709 88914
63177 06856 08407 25666 93141 91715 95943 31828 45785 11590
34898 72212 72026 68104 07352 76873
= 207 46 207 46 = repeats message = 207 46 000

No transmission on 21 April.

4761 kHz, 22-04, 0420 UTC

497 53 =

65005 63233 12690 31426 28339 78441 81899 59483 29391 93576
30506 10477 13920 43827 92881 69183 57981 71416 89954 16940
55594 22930 31854 59719 31505 65263 24971 93345 84709 88914
63177 06856 08407 25666 93141 91715 95943 31821 45785 11590
56097 39965 29374 34239 09716 89054 47229 49690 26086 36706
69396 43119 21687

= 497 53 497 53 = repeats message = 497 53 000

Note: the first 40 groups are the same as sent on 20 April.

23 April: no reports**4761 kHz, 24-04, 0420 UTC**

= 107 56 =

65005 63233 12690 31426 28339 78441 81899 59483 29391 93576
30506 10477 13920 43827 92881 69183 57981 71416 89954 16940
55594 22930 31854 59719 31505 65263 24971 93345 84709 88914
63177 06856 08407 25666 93141 91715 95943 31821 45785 11590
56097 39965 29374 34239 09716 89054 47229 49690 26086 36706
69396 43119 21687 56874 32954 40912

= 107 56 107 56 = repeats message = 107 56 000

Note: Same message as sent on 22 April plus 3 additional groups. Different id.

No transmission on 25 April.**4761 kHz, 26-04, 0420 UTC**

529 46 =

87484 42925 67103 43452 22997 68928 06436 24737 35009 26716
82247 76594 81625 07533 74381 51275 32183 27658 91240 40617
88919 19138 92045 23700 72256 23385 17228 77443 13528 74699
81218 81208 29754 86501 59050 12535 39158 19111 55505 40365
65708 18702 79835 03370 75803 52272

= 529 46 29 46 = repeats message = 529 46 000

4761 kHz, 27-04, 0420 UTC

294 48 =

12649 08179 48307 61973 62828 21299 41755 28935 00330 30668
78326 32935 25231 44987 43062 63997 29242 14611 12987 81279
29975 44390 16623 78384 96004 70816 74533 59168 76907 09136
64489 66393 14742 53692 14278 68195 61964 16262 28545 63603
01290 14015 31639 06868 75986 08862 78314 50613

= 294 48 294 48 = repeats message = 294 48 000

4761 kHz, 28-04, 0420 UTC

984 45 =

12649 08179 48307 61973 62828 21299 41755 28935 00330 30668
78326 32935 25231 44987 43062 63997 29242 14611 12987 81279
29975 44390 16623 78384 96004 70816 74533 59168 76907 09136
64489 66393 14742 53692 14278 68195 61964 16262 28545 63603
01290 14015 31639 06868 75986

= 984 45 984 45 = repeats message = 984 45 000

Note: same message as yesterday minus the last 3 groups. Different id.

No transmission on 29 April.

4761 kHz, 30-04, 0420 UTC

849 46 =

12649 08179 48307 61973 62828 21299 41755 28935 00330 30668
78326 32935 25231 44987 43062 63997 29242 14611 12987 81279
29975 44390 16623 78384 96004 70816 74533 59168 76907 09136
64489 66393 14742 53692 14278 68195 61964 16262 28545 63603
01290 14015 31639 06868 75986 39695

= 849 46 849 46 = repeats message = 849 46 000

F01, F06, M42, M42a,
M42b & X06



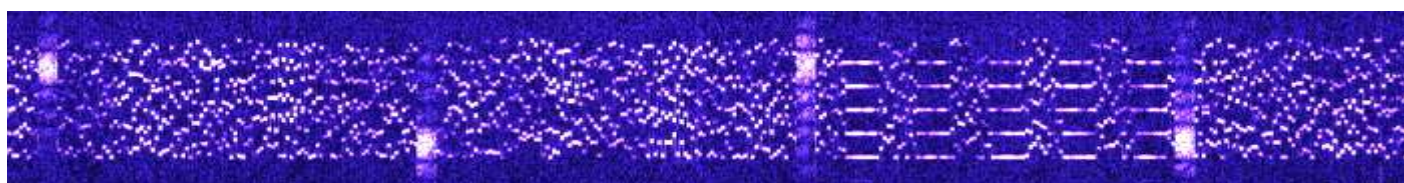
Modes:
Various digital modes, CW,
Tones (Мазелка / Mazielka)

Russian Government & Intelligence



M42 – various modes

Freq	Date	UTC	Day	Details	Mode
13372	5-4	0935	Wed	Russian diplo/intel i.p.	MFSK-80/250bd BPSK
16350.6	6-4	1215	Thu	Russian diplo/intel i.p.	MFSK-80/250bd BPSK
14397.5	6-4	1346	Thu	Russian diplo/intel i.p.	MFSK-80/250bd BPSK
14447.5	7-4	1520	Fri	Russian diplo/intel i.p.	MFSK-80/250bd BPSK
11063.5	7-4	1530	Fri	Russian diplo/intel i.p.	MFSK-80/250bd BPSK
12215.5	8-4	0750	Sat	Russian diplo/intel i.p.	MFSK-80/250bd BPSK
12189.5	11-4	1651	Tue	Russian diplo/intel i.p.	MFSK-80/250bd BPSK
7581.5	14-4	0637	Fri	Russian diplo/intel i.p.	MFSK-80/250bd BPSK
9083	15-4	0600	Sat	Russian diplo/intel. Started at 0600z, ends 0620z	MFSK-80/250bd BPSK
11151.5	15-4	1713	Sat	Russian diplo/intel. i.p.	MFSK-80/250bd BPSK
11063	15-4	1715	Sat	Russian diplo/intel. i.p.	MFSK-80/250bd BPSK
15897	17-4	0900	Mon	Russian diplo/intel	MFSK-80/250bd BPSK
20552	17-4	0900	Mon	Russian diplo/intel	MFSK-80/250bd BPSK
13372	17-4	0930	Mon	Russian diplo/intel	MFSK-80/250bd BPSK
13372	17-4	0933	Mon	Russian diplo/intel i.p.	MFSK-80/250bd BPSK
12137	17-4	1000	Mon	Russian diplo/intel	MFSK-80/250bd BPSK
19598	17-4	1000	Mon	Russian diplo/intel	MFSK-80/250bd BPSK
10172	18-4	1345	Tue	Russian diplo/intel i.p.	MFSK-80/250bd BPSK
11560	22-4	0635	Sat	Russian Intel i.p.	MFSK-80/250bd BPSK
10212.5	22-4	1700	Sat	Russian Intel.	MFSK-80/250bd BPSK
11151	24-4	1705	Mon	Russian Intel i.p. Ends 1722 UTC	MFSK-80/250bd BPSK



M42b – FSK 50/500

Freq	Date	UTC	Day	Details	Mode
12220	1-4	0402	Sat	Header: 11100 90105 00000 01195 01003	CW
6977	12-4	1722	Wed	PKNV DE P84O QSA NO QSY 95643 K	CW
7409	13-4	0924	Thu	2PIU de 5V4R QSY 63020 OK CFM QSW K	CW
5430	13-4	1325	Thu	i.p. =100= separator	FSK 50/500
10218	22-4	0530	Sat	K4MT wkg NT9P. Message in FSK 50/500, opchat: QRU NIL SK	CW

F06 – FSK 200/1000

Link 16404 / 16405

15626/12214 kHz, 04-04, 1510/1520 UTC: Russian diplo/intel. Null message on link 16404

17534/15626/12214 kHz, 11-04, 1500/1510/1520 UTC

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

7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08

Block No 1 : Link ID 16405 : 11th of month : Msg Number 165 : Msg Type 07145 : Group Count (?) 4

52832 00000 00000 01919 01336 03686 00893 22933

19138/17545/15626 kHz, 12-04, 0800/0810/0820 UTC

Block No 0 : Total Message Size 43 blocks : This transmission contains one message.

7d,12,b0,e6,00,00,00,00,50,00,40,00,10,00,00,00,00,06,20,0f,00,0e,00,03,20,03,50,0c,20,05,30,00,80,0a,e0,0b

Block No 1 : Link ID 16405 : 11th of month : Msg Number 032 : Msg Type 07145 : Group Count (?) 30

39056 19813 18159 32960 11934 38707 03656 62372

17534/15626/12214 kHz, 18-04, 1500/1510/1520 UTC

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

7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08

Block No 1 : Link ID 16405 : 18th of month : Msg Number 112 : Msg Type 07145 : Group Count (?) 4

52832 00000 00000 02806 01336 34401 00893 58150

19138/17545/15626 kHz, 26-04, 0800/0810/0820 UTC

Block No 0 : Total Message Size 43 blocks : This transmission contains one message.

7d,12,b0,e6,00,00,00,00,50,00,40,00,10,00,00,00,00,06,20,0f,00,0e,00,03,20,03,50,0c,20,05,30,00,80,0a,e0,0b

Block No 1 : Link ID 16405 : 11th of month : Msg Number 032 : Msg Type 07145 : Group Count (?) 30

39056 19813 18159 32960 11934 38707 03656 62372

17534/15626/12214 kHz, 25-04, 1500/1510/1520 UTC

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

7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08

Block No 1 : Link ID 16404 : 25th of month : Msg Number 167 : Msg Type 07145 : Group Count (?) 4

17764 00000 00000 04036 55396 35983 00893 10267

Link 20492

17538/14576/11639 kHz, 12-04, 0915/0925/0935 UTC

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

7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08

Block No 1 : Link ID 20492 : 12th of month : Msg Number 065 : Msg Type 07145 : Group Count (?) 4

06412 00000 00000 03769 31284 03028 00893 38693

17538/14576/11639 kHz, 26-04, 0915/0925/0935 UTC

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

7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08

Block No 1 : Link ID 20492 : 26th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4

06413 00000 00000 00517 31284 36635 00893 48307

18626/16325/13458 kHz, 02-04, 1530/1540/1550 UTC: Russian diplo/intel. Null msg on link 20501

18726/16238/13378 kHz, 04-04, 1650/1700/1710 UTC: Russian diplo/intel. Null message on link 20501

18626/16325/13458 kHz, 09-04, 1530/1540/1550 UTC

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

7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08

Block No 1 : Link ID 20501 : 9th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4

39180 00000 00000 02378 12857 34999 00893 26371

18726/16238/13378 kHz, 11-04, 1650/1700/1710 UTC

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

7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08

Block No 1 : Link ID 20501 : 11th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4

39180 00000 00000 00106 12857 34749 00893 51175

18626/16325/13458 kHz, 16-04, 1530/1540/1550 UTC

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

7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08

Block No 1 : Link ID 20501 : 16th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4

47804 00000 00000 01173 36779 36072 00893 04528

18726/16238/13378 kHz, 18-04, 1650/1700/1710 UTC

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

7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08

Block No 1 : Link ID 20501 : 18th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4

39180 00000 00000 03085 12857 36464 00893 03940

18626/16325/13458 kHz, 23-04, 1530/1540/1550 UTC

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

7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08

Block No 1 : Link ID 20501 : 23rd of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4

01476 00000 00000 01940 26517 33047 00893 19838

18726/16238/13378 kHz, 25-04, 1650/1700/1710 UTC

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

7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08

Block No 1 : Link ID 20501 : 25th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4

51652 00000 00000 00403 21447 34457 00893 45096

18626/16325/13458 kHz, 30-04, 1530/1540/1550 UTC

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

7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08

Block No 1 : Link ID 20501 : 30th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4

39181 00000 00000 02357 12857 34705 00893 48382

16325/14724/12172 kHz, 05-04/06-04, 0600/0610/0620 UTC

Block No 0 : Total Message Size 48 blocks : This transmission contains one message.

7d,12,b0,e6,00,00,00,00,00,50,00,e0,00,10,00,00,00,00,01,20,0d,00,04,00,0f,50,05,20,01,c0,08,80,03,d0,0c,90,0d

Block No 1 : Link ID 32817 : 1st of month : Msg Number 032 : Msg Type 07145 : Group Count (?) 72

29408 45561 32022 15211 11596 37591 44673 56285

16325/14724/12172 kHz, 12-04/13-04, 0600/0610/0620 UTC

Block No 0 : Total Message Size 85 blocks : This transmission contains 2 messages.

7d,12,b0,e6,00,00,05,00,a8,00,80,00,20,00,00,00,00,0e,20,03,00,0e,00,05,bc,0a,2c,08,7f,0a,00,06,12,00,2e,0c

Block No 1 : Link ID 32817 : 8th of month : Msg Number 035 : Msg Type 07145 : Group Count (?) 46

54948 36433 16729 32528 00500 07264 04965 09287

16325/14724/12172 kHz, 19-04, 0600/0610/0620 UTC

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

7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08

Block No 1 : Link ID 32817 : 19th of month : Msg Number 097 : Msg Type 07145 : Group Count (?) 4

28436 00000 00000 01823 05640 35124 00893 31722

16325/14724/12172 kHz, 26-04/27-04, 0600/0610/0620 UTC

Block No 0 : Total Message Size 63 blocks : This transmission contains one message.

7d,12,b0,e6,00,00,00,00,70,00,c0,00,10,00,00,00,00,04,20,04,00,0a,00,07,b0,05,50,05,e0,03,90,05,30,09,80,05

Block No 1 : Link ID 32816 : 22nd of month : Msg Number 040 : Msg Type 07145 : Group Count (?) 179

24064 10819 50721 20441 62441 06262 39652 53353

Link 32821

20386/18509/16231 kHz, 01-04, 2100/2110/2120 UTC: Russian diplo/intel. Link ID 32821, Null message

20386/18509/16231 kHz, 08-04, 2100/2110/2120 UTC

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

7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08

Block No 1 : Link ID 32821 : 8th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4

01476 00000 00000 03385 28292 36423 00893 34766

20386/18509/16231 kHz, 15-04, 2100/2110/2120 UTC

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

7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08

Block No 1 : Link ID 32821 : 15th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4

39180 00000 00000 03222 13740 33887 00893 06739

20386/18509/16231 kHz, 29-04, 2100/2110/2120 UTC

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

7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08

Block No 1 : Link ID 32821 : 29th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4

01477 00000 00000 00800 28292 35370 00893 25215

Link 36882

17437/15626/13464 kHz, 01-04/02-04, 1100/1110/1120 UTC

Block No 0 : Total Message Size 45 blocks : This transmission contains one message.

7d,12,b0,e6,00,00,00,00,50,00,80,00,10,00,00,00,00,0c,20,0b,00,02,00,04,70,0e,e0,0f,60,07,10,07,60,08,30,08

Block No 1 : Link ID 36882 : 31st of month : Msg Number 225 : Msg Type 07145 : Group Count (?) 44

53101 34192 43487 38464 31234 06629 29729 46766

17437/15626/13464 kHz, 08-04/09-04, 1100/1110/1120 UTC

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

7d,12,b0,e6,00,00,00,00,10,00,a0,00,10,00,00,00,00,0a,20,0e,00,09,00,0f,a0,01,30,02,20,08,70,0f,60,09,a0,07

Block No 1 : Link ID 36882 : 7th of month : Msg Number 227 : Msg Type 07145 : Group Count (?) 86

06952 44753 60505 40258 31234 33911 15614 31339

17437/15626/13464 kHz, 22-04/23-04, 1100/1110/1120 UTC

Block No 0 : Total Message Size 19 blocks : This transmission contains one message.

7d,12,b0,e6,00,00,00,00,20,00,40,00,10,00,00,00,00,0d,20,0d,00,0a,00,00,e0,0b,20,09,d0,0b,50,02,c0,05,00,09

Block No 1 : Link ID 36882 : 21st of month : Msg Number 230 : Msg Type 07145 : Group Count (?) 114

21668 48593 60985 39374 28573 00009 16319 47839

17437/15626/13464 kHz, 29-04/30-04, 1100/1110/1120 UTC

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

7d,12,b0,e6,00,00,00,00,20,00,a0,00,10,00,00,00,00,03,20,04,00,0b,00,0e,40,0a,b0,04,60,0b,90,03,f0,00,c0,08

Block No 1 : Link ID 36882 : 28th of month : Msg Number 232 : Msg Type 07145 : Group Count (?) 132

46957 48113 62586 40436 28573 35363 50068 35421

Link 45057

17481/15946/13543 kHz, 08-04/09-04, 0900/0910/0920 kHz.

Block No 0 : Total Message Size 29 blocks : This transmission contains one message.

7d,12,b0,e6,00,00,00,00,30,00,80,00,10,00,00,00,00,0f,20,07,00,07,00,07,b0,0a,a0,01,50,06,b0,07,c0,05,10,02

Block No 1 : Link ID 45057 : 7th of month : Msg Number 235 : Msg Type 07145 : Group Count (?) 188

56376 54770 23735 22846 38644 04063 15492 33917

17481/15946/13543 kHz, 22-04/23-04, 0900/0910/0920 kHz.

Block No 0 : Total Message Size 29 blocks : This transmission contains one message.

7d,12,b0,e6,00,00,00,00,30,00,80,00,10,00,00,00,00,0f,20,07,00,12,80,03,d8,05,50,00,a8,03,58,03,c0,02,88,01

Block No 1 : Link ID 45057 : 7th of month : Msg Number 235 : Msg Type 07145 : Group Count (?) 188

56376 54770 23735 22846 38644 04063 15492 33917

Link 45075

14367/12208 kHz, 05-04, 0810/0820 UTC

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

7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08

Block No 1 : Link ID 45075 : 5th of month : Msg Number 140 : Msg Type 07145 : Group Count (?) 4

56096 00000 00000 01662 29748 00923 00893 21660

16064/14367/12208 kHz, 12-04, 0800/0810/0820 UTC

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

7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08

Block No 1 : Link ID 45075 : 12th of month : Msg Number 190 : Msg Type 07145 : Group Count (?) 4

55572 00000 00000 03218 29748 02431 00893 10998

10686/8184/6773 kHz, 17-04, 0400/0410/0420 UTC: Russian diplo/intel. Null msg on link 45079

16064/14367/12208 kHz, 19-04, 0800/0810/0820 UTC

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

7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08

Block No 1 : Link ID 45075 : 19th of month : Msg Number 195 : Msg Type 07145 : Group Count (?) 4

16892 00000 00000 03772 29748 03170 00893 55181

16064/14367/12208 kHz, 26-04, 0800/0810/0820 UTC

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

7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08

Block No 1 : Link ID 45075 : 26th of month : Msg Number 007 : Msg Type 07145 : Group Count (?) 4

50665 00000 00000 02542 09055 36191 00893 33847

Link 45079

8184/6773 kHz, 03-04, 0410/0420 UTC

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

7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08

Block No 1 : Link ID 45079 : 3rd of month : Msg Number 047 : Msg Type 07145 : Group Count (?) 4

08256 00000 00000 03718 60665 33278 00893 03698

Link 45114 / 45115

13466/11543/9328 kHz, 08-04/09-04, 0800/0820/0820 UTC

Block No 0 : Total Message Size 36 blocks : This transmission contains one message.

7d,12,b0,e6,00,00,00,00,40,00,60,00,10,00,00,00,00,0a,20,0c,00,02,00,0a,f0,09,00,0c,c0,08,10,0a,70,02,b0,0c

Block No 1 : Link ID 45114 : 7th of month : Msg Number 135 : Msg Type 07145 : Group Count (?) 236

48632 62582 57872 27360 56490 00007 30785 38843

13466/11543/9328 kHz, 22-04/23-04, 0800/0820/0820 UTC

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

7d,12,b0,e6,00,00,00,00,50,00,00,00,10,00,00,00,00,0f,20,04,00,05,00,01,90,0e,30,0a,00,0a,d0,01,30,0d,00,0a

Block No 1 : Link ID 45115 : 21st of month : Msg Number 137 : Msg Type 07145 : Group Count (?) 16

09044 50422 46943 25017 06443 38105 22526 63481

Link 49202

13983/12209/10203 kHz, 12-04, 2200/2210/2220 kHz: Russian diplo/intel. Null msg on link 49202

Link 49237

16351/14367/11483 kHz, 06-04, 1330/1340/1350 UTC

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

7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08

Block No 1 : Link ID 49237 : 6th of month : Msg Number 222 : Msg Type 07145 : Group Count (?) 4

18024 00000 00000 03291 54891 34844 00893 22525

16351/14367/11483 kHz, 13-04, 1330/1340/1350 UTC

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

7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08

Block No 1 : Link ID 49237 : 13th of month : Msg Number 142 : Msg Type 07145 : Group Count (?) 4

40580 00000 00000 03075 49619 34193 00893 50916

16351/14367/11483 kHz, 20-04, 1330/1340/1350 UTC

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

7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08

Block No 1 : Link ID 49237 : 20th of month : Msg Number 132 : Msg Type 07145 : Group Count (?) 4

17260 00000 00000 00398 47143 33823 00893 45494

16351/14367/11483 kHz, 27-04, 1330/1340/1350 UTC

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

7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08

Block No 1 : Link ID 49237 : 27th of month : Msg Number 130 : Msg Type 07145 : Group Count (?) 4

21333 00000 00000 01652 58545 02234 00893 13369

Link 53277

18476/16168/14643 kHz, 05-04, 1230/1240/1250 UTC.

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

7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08

Block No 1 : Link ID 53277 : 5th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4

01476 00000 00000 03088 25896 36046 00893 15380

18476/16168/14643 kHz, 19-04, 1230/1240/1250 UTC.

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

7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08

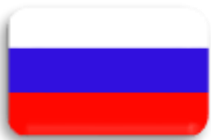
Block No 1 : Link ID 53277 : 19th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4

48908 00000 00000 01883 15966 32951 00893 50372

16168/14643 kHz, 05-04, 1242/1256 UTC, i.p. : 11166 90073 52369 05001 00049 00000

X06 - Mazielka

Code	Freq	Date	UTC	Day	Sequence
X06	13401	4-4	0833	Tue	Mazielka. Sequenc: 154263
X06	13419	12-4	0934	Wed	Mazielka. Sequence: 465132
X06	11548	15-4	0625	Sat	Mazielka. Sequence: 1--6--
X06	12138	19-4	0829	Wed	Mazielka i.p. Sequence: 362154
X06	16257	25-4	0834	Tue	Mazielka. Sequence: 542136
X06b	16147	7-4	1409	Fri	Mazielka. Sequence: 1--6-- before XPA2
X06b	16114	7-4	1805	Fri	Mazielka. Sequence: 1--6--
X06b	16114	7-4	1810	Fri	Mazielka. Sequence: 1--6--
X06b	16114	7-4	1812	Fri	Mazielka. Sequence: 1--6--
X06b	16114	7-4	1814	Fri	Mazielka. Sequence: 1--6--
X06b	14828	8-4	1820	Sat	Mazielka. Sequence: 1--6-- before XPA2
X06b	14828	8-4	1823	Sat	Mazielka. Sequence: 1--6-- before XPA2
X06b	17462	8-4	1825	Sat	Mazielka. Sequence: 1--6-- before XPA2
X06b	16114	8-4	1828	Sat	Mazielka. Sequence: 1--6-- before XPA2
X06b	14447	9-4	1355	Sun	Mazielka. Sequence: 1--6-- before XPA2
X06b	14947	9-4	1356	Sun	Mazielka. Sequence: 1--6-- before XPA2
X06b	16147	9-4	1357	Sun	Mazielka. Sequence: 1--6-- before XPA2
X06b	14947	9-4	1358	Sun	Mazielka. Sequence: 1--6-- before XPA2
X06b	16147	9-4	1359	Sun	Mazielka. Sequence: 1--6-- before XPA2
X06b	16100	13-4	1222	Thu	Mazielka. Sequence: 6--1-- ends 1259 UTC
X06b	14947	14-4	1410	Fri	Mazielka. Sequence: 1--6-- before XPA2
X06b	16147	14-4	1411	Fri	Mazielka. Sequence: 1--6-- before XPA2
X06b	16147	14-4	1414	Fri	Mazielka. Sequence: 1--6-- before XPA2
X06b	16147	14-4	1421	Fri	Mazielka. Sequence: 1--6-- before XPA2
X06b	10212.5	22-4	1700	Sat	Mazielka. Sequence: 6--1--
X06b	11650	25-4	1137	Tue	Mazielka i.p. Sequence: 1--6--
X06b	11650	25-4	1158	Tue	Mazielka. Sequence: 1--6--
X06b	14447	30-4	1405	Sun	Mazielka. Sequence: 1--6-- before XPA2
X06b	16147	30-4	1406	Sun	Mazielka. Sequence: 1--6-- before XPA2
X06b	14947	30-4	1407	Sun	Mazielka. Sequence: 1--6-- before XPA2
X06b	16147	30-4	1408	Sun	Mazielka. Sequence: 1--6-- before XPA2
X06b	14447	30-4	1412	Sun	Mazielka. Sequence: 1--6-- before XPA2
X06b	14447	30-4	1419	Sun	Mazielka. Sequence: 1--6-- before XPA2
X06b	16147	30-4	1420	Sun	Mazielka. Sequence: 1--6-- before XPA2
X06b	14947	30-4	1421	Sun	Mazielka. Sequence: 1--6-- before XPA2
X06b	16147	30-4	1423	Sun	Mazielka. Sequence: 1--6-- before XPA2
X06b	14447	30-4	1426	Sun	Mazielka. Sequence: 1--6-- before XPA2
X06b	14947	30-4	1428	Sun	Mazielka. Sequence: 1--6-- before XPA2
X06b	16147	30-4	1429	Sun	Mazielka. Sequence: 1--6-- before XPA2
X06c	12190	7-4	1100	Fri	Mazielka. Sequence: 123456
X06c	12190	7-4	1100	Fri	Mazielka. Sequence: 123456
X06c	12214	10-4	0934	Mon	Mazielka. Sequence: 463125



XPA

Mode: MFSK-20/10Bd

10359/11559/13559 kHz, 01-04, 0600/0620/0640 UTC

355 355 355 000

01376 00001 00000 10140

10359/11559/13559 kHz, 05-04/08-04, 0600/0620/0640 UTC

355 355 355 1 355 355 355 1 355 355 355 1

06701 00151 01622 99245 67637 22670 73379 53029 22286 47369
14093 46926 97431 48833 91799 58509 08770 01806 42871 25726
40918 94649 45432 81249 80078 29877 35486 73037 12564 91542
42797 09396 97999 89346 44280 99182 23609 15409 70165 39855
72307 12035 34510 83501 97876 33958 13626 46704 75642 19383
67337 50748 66610 45382 49893 51833 21134 11914 45465 97034
70241 93740 19192 03136 27335 50089 98104 34834 67107 18326
43730 46564 24726 62891 46725 72444 46901 64139 74148 09831
42449 88431 20335 12241 27214 41747 58908 77803 18291 63269
71262 71424 91613 60168 25750 91039 71575 53869 99981 03113
49081 11464 45000 04399 25392 66884 32645 66895 13996 84539
22350 57759 35113 08458 36754 36543 20213 62674 81164 71707
87263 44031 41630 86453 76934 00126 01999 71305 08183 14527
06661 83466 31847 28738 73905 40672 67081 43771 70574 34359
87357 83570 67831 73958 17626 08503 81215 21788 09429 58278
39786 95615 67315 06742

10359/11559/13559 kHz, 12-04, 0600/0620/0640 UTC

355 355 355 000

04634 00001 00000 10140

10359/11559/13559 kHz, 15-04, 0600/0620/0640 UTC

355 355 355 000

04971 00001 00000 10140

10359/11559/13559 kHz, 19-04/22-04, 0600/0620/0640 UTC

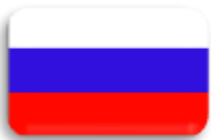
355 355 355 1 355 355 355 1 355 355 355 1

02022 00137 85862 15205 97832 35359 11569 71563 60091 69708
89525 46498 08688 88718 16524 38079 13902 66176 56737 75354
22511 92528 51226 31148 34335 20535 74237 79340 63781 72781
53119 69491 45425 65580 57308 13573 19030 95013 14507 45337
59271 85191 73945 81215 14937 24055 06163 64989 99371 63625
62818 40031 10600 91534 85599 47751 18929 32634 59844 71510
94357 16368 86494 98897 13988 47779 63674 84249 88557 54473
22045 02703 52438 05673 18519 21098 72604 46534 09453 71068
29416 20074 10546 21418 39304 53526 20613 81155 62086 08700
52620 51585 27860 03213 85941 62339 00063 98608 68008 02931
45303 37230 10197 14080 91610 91868 84710 52686 05521 63030
60878 66928 70180 10159 50348 23989 97645 17140 36080 29656
04849 54551 79589 18401 91721 67828 26344 12383 67031 10016
17746 55324 02931 26527 71894 28331 05553 43501 13974 70444

10359/11559/13559 kHz, 29-04, 0600/0620/0640 UTC

355 355 355 000

08475 00001 00000 10140



XPA2

Mode: MFSK-16/20Bd

16147/14947/14447 kHz, 02-04, 1500/1520/1540 UTC

06048 00001 00000 10140

14538/13538/12138 kHz, 02-04/04-04, 1800/1820/1840 UTC

07204 00093 26499 79670 04518 47024 22144 31997 72461 84409
60583 85316 48424 39479 18790 73685 10389 08056 13529 53579
08340 55203 43484 06864 32707 09319 61368 62701 83059 36292
38487 12402 88411 48737 06471 79842 16204 08098 34202 91434
18270 14665 54597 16779 54526 01272 38184 85195 57989 10402
79734 40171 76919 46724 67921 21143 10019 04638 67457 11794
45667 75590 83269 79381 08159 34793 67445 22429 01424 58983
87578 99672 91346 01866 63479 25295 81569 64005 66177 60301
66066 86967 25501 55629 15269 40317 76576 25558 57728 65275
64976 22255 47214 85425 35444 13315

16347/17447/18747 kHz, 04-04, 0700/0720/0740 UTC

02369 00001 00000 10140

16347/17447/18747 kHz, 07-04, 0700/0720/0740 UTC

08133 00001 00000 10140

16147/14947/14447 kHz, 07-04/09-04, 1500/1520/1540 UTC

08547 00147 52586 69184 11419 15707 25370 76924 54951 67663
60474 17039 70323 41261 26484 64718 41165 46149 93712 55502
26237 56800 61158 20900 90597 88862 78729 16653 48675 05676
55708 50726 04846 28543 87571 92163 94086 31853 29558 49431
04974 61172 89339 83605 48074 50361 84144 58459 17564 26257
22357 64202 45206 86707 00942 06445 84654 42297 93276 77359
11136 58727 75542 26238 31610 67416 94543 29675 33927 46814
99107 64529 15287 29697 05059 36845 02457 25339 00771 60427
02337 41704 60972 28765 51641 33372 88578 57892 05785 79923
04070 08470 82559 52960 28613 09688 20783 86330 14945 47734
27669 95106 72541 84257 20882 32829 16357 60333 91565 64923
43664 86679 51344 77523 81950 17493 89473 96389 64384 18103
82959 37634 93695 53119 03020 87848 83358 64379 06644 20732
24466 14998 39340 07922 18169 18238 02971 04656 37262 47411
94084 53086 21277 61220 46136 62537 98234 57790 66768 45671

17462/16114/14828 kHz, 07-04/08-04, 1900/1920/1940 UTC

04116 00061 32191 71521 99759 91007 00659 03442 37076 99856
44430 74584 68022 48319 63651 40306 26097 10856 01787 18938
06245 95140 22791 59161 05291 80019 09950 88283 06502 04470
72316 77845 59137 41880 77163 99222 81634 32002 44285 03541
06817 37786 24678 71721 41719 70906 20024 38309 61832 80983
35529 59671 73859 87311 18850 50599 08553 04787 70228 34327
55476 35672 54940 47126

14538/13538/12138 kHz, 09-04, 1800/1820/1840 UTC

07810 00001 00000 10140

14538/13538/12138 kHz, 11-04, 1800/1820/1840 UTC

08601 00001 00000 10140

16147/14947/14447 kHz, 14-04, 1500/1520/1540 UTC
09975 00001 00000 10140

17462/16114/14828 kHz, 14-04, 1900/1920/1940 UTC
09211 00001 00000 10140

17462/16114/14828 kHz, 15-04, 1900/1920/1940 UTC
02317 00001 00000 10140

16147/14947/14447 kHz, 16-04, 1500/1520/1540 UTC
03888 00000 00000 10040

14538/13538/12138 kHz, 16-04/18-04, 1800/1820/1840 UTC
04581 00101 53391 86713 83744 49583 16141 18286 27902 22589
30716 88714 21206 01930 26598 19710 70399 26139 70574 48420
06600 99721 73460 80818 68465 09900 63987 34202 86475 06215
14644 39528 51124 28082 07483 09107 61503 66984 95433 kHz, 46016
05596 00891 51076 97492 88327 38437 06982 39792 21079 00693
39700 39644 17922 67529 67239 84035 77268 88380 44678 87109
59629 02393 84721 05760 40273 99954 00337 43262 54318 98582
51197 56137 92085 87435 57591 51963 03715 49910 55067 63379
07997 10255 87145 35702 03156 52778 57183 57466 86044 56973
94805 32015 22336 84442 34287 31979 30809 29173 35167 50094
20545 56085 73966 45263

16347/17447/18747 kHz, 18-04, 0700/0720/0740 UTC
01005 00001 00000 10140

16347/17447/18747 kHz, 21-04, 0700/0720/0740 UTC
06355 00001 00000 10140

16147/14947/14447 kHz, 21-04/23-04, 1500/1520/1540 UTC
07850 00103 09421 17534 32843 02259 19164 11664 73251 50235
63854 63076 37796 23605 20689 56748 87136 65448 69547 61821
11974 27115 92230 96001 77859 18938 80941 48221 88496 61480
95915 65003 88996 88684 24159 90439 34713 62892 39064 45914
75531 48192 13343 08519 56823 68746 41924 57683 58525 90073
60917 95235 12929 91881 61975 25209 54466 95248 19363 02638
47967 78393 81414 81217 09981 59441 15758 77802 25774 12286
90004 94581 62236 72890 18712 16002 88661 73608 39088 81415
39587 37332 44471 06301 74508 37078 73342 28897 03400 53377
11528 16044 62006 22741 75108 42225 33722 61515 13332 40555
09149 85337 18048 19515 54584 16364

14538/13538/12138 kHz, 23-04, 1800/1820/1840 UTC
07557 00001 00000 10140

16347/17447/18747 kHz, 25-04/28-04, 0700/0720/0740 UTC
05338 00085 60596 58399 93623 59801 20294 14908 05997 22314
56054 08264 28284 91156 43347 81263 11199 89404 83493 27681
30153 95098 36277 09471 05814 30074 62473 29159 10691 61642
36413 88061 83529 60541 98982 99836 10123 20503 13642 57559
11380 31700 65346 61864 18876 63991 65046 33158 14449 65224
12527 28281 17660 82562 55557 14281 28131 31884 12280 14330
92712 44832 33323 26288 32018 39178 91220 77116 26233 66812
28883 00663 34528 05660 71134 06660 91175 06111 05802 3433
65458 00353 30344 98618 33165 56507 77336 30552

14538/13538/12138 kHz, 25-04, 1800/1820/1840 UTC

02451 00001 00000 10140

16147/14947/14447 kHz, 28-04, 1500/1520/1540 UTC

08061 00001 00000 10140

17462/16114/14828 kHz, 28-04, 1900/1920/1940 UTC

05816 00000 00000 10140

17462/16114/14828 kHz, 29-04, 1900/1920/1940 UTC

01605 00001 00000 10140

16147/14947/14447 kHz, 30-04, 1500/1520/1540 UTC

05034 00001 00000 10140

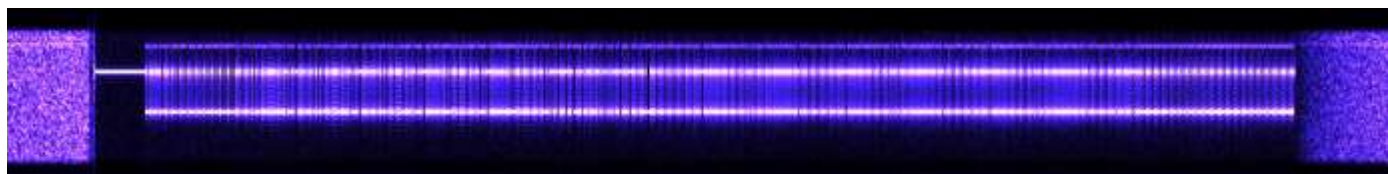
14538/13538/12138 kHz, 30-04, 1800/1820/1840 UTC

08229 00085 04079 03644 80628 96040 88414 59989 48252 09628
66904 84697 93839 19827 98333 43697 75807 89157 45674 15557
43888 90539 97416 75960 87982 25402 80542 95782 68011 91241
93042 56844 70477 59995 88888 57887 57037 39517 01566 99808
47306 10545 06060 16282 12946 50716 87704 38598 11169 35013
39919 37879 20993 65525 24390 38195 42880 10055 16594 77160
99554 79257 75144 45778 04242 46825 95311 39753 92242 42968
39805 71235 63942 94724 20959 40683 06184 28721 06161 56529
02731 40102 23502 28761 18439 78949 07201 76727



F11

Mode: FSK 100/620



7371 kHz, 03-04/06-04, 0515/0520 UTC

0446 0446 0446 0446 0446

88888 88888 96189 56117 12114 86273 78418 07707 41695 45008
93993 71058 85308 10224 17195 70628 95032 09894 77901 43992
90659 70155 76422 15958 81130 62611 26954 36977 33955 07893
65498 49587 69876 89087 20755 29194 06161 88888 88888
00039 00039

6906 kHz, 03-04/06-04, 0800/0805 UTC

0434 0434 0434 0434 0434

88888 88888 23948 67612 16782 64580 22793 77145 26659 06487
70346 14500 56123 53627 77194 39285 29717 06789 59080 05440
45742 07818 45770 57272 55320 62771 37555 81672 58354 36545
29214 28992 85136 36045 88888 88888
00036 00036

9339 kHz, 03-04/05-04, 0845/0850 UTC

0353 0353 0353 0353 0353

88888 88888 01945 81522 60749 79010 48313 52879 17695 76998
35130 46147 12406 82834 60382 07169 42539 39147 86566 18526
01692 10155 14931 12362 50718 91603 39503 77325 54832 81990
64800 90041 67666 48127 71104 22523 03646 33202 01621 88888
88888
00041 00041

10728 kHz, 04-04/06-04, 0630/0635 UTC

0574 0574 0574 0574 0574

88888 88888 55792 54215 84719 23159 03224 28991 04161 77903
53644 18782 52059 63352 62077 69386 39148 55765 72133 68948
97981 04175 48777 64311 09738 42996 76215 48945 75081 80382
71712 82270 11098 95198 06528 91277 63811 90071 29977 13769
77361 09446 88888 88888
00044 00044

14753 kHz, 04-04/06-04, 0730/0735 UTC

0433 0433 0433 0433 0433

88888 88888 70590 77011 98101 83530 09964 86484 11680 62656
65383 70502 87584 16689 21054 39519 94816 76964 65729 57683
35761 48131 18926 79557 29056 50855 05684 43103 35034 46822
48822 02932 97529 57098 28650 91198 72158 80633 88888 88888
00040 00040

7371 kHz, 11-04/14-04, 0900/0905 UTC

0554 0554 0554 0554 0554

88888 88888 08912 62572 87080 83263 74082 12443 65867 38727
49647 19194 12281 79192 45490 44521 30650 22278 83317 11902
13593 38704 68924 47301 63173 25452 01279 08590 37499 77933
17144 79515 05407 20062 91406 88888 88888
00037 00037

9052 kHz, 18-04/21-04, 0655/0700 UTC

0684 0684 0684 0684 0684

88888 88888 69190 37902 16466 73114 19257 30901 61520 12951
14958 27504 51867 45284 83060 76709 02735 14142 16352 38645
29015 61931 29193 80248 30258 06356 06367 59590 18230 82262
93889 59151 92890 08869 10129 54391 88888 88888
00038 00038

7670 kHz, 25-04/26-04, 1150//1155 UTC

0325 0325 0325 0325 0325

88888 88888 10266 48718 15400 50185 52893 86219 24317 81980
32177 34157 66210 51785 81491 32104 24754 88980 22601 71535
13853 47194 09110 78109 49462 84325 42527 48605 20054 57036
62294 07245 99863 88888 88888
00035 00035

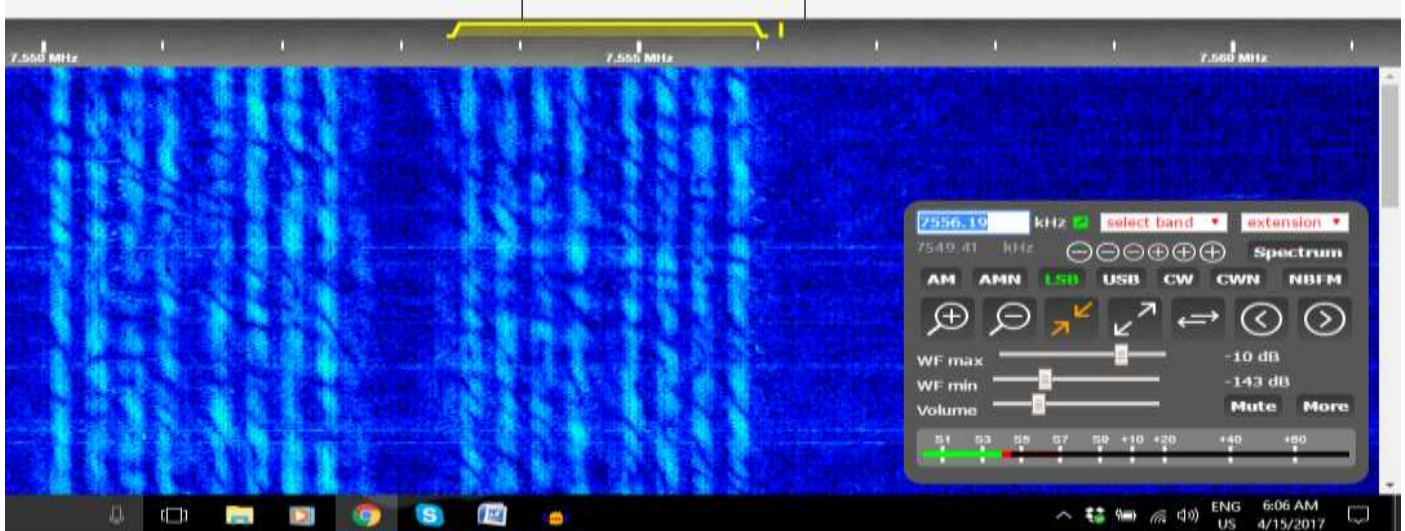


Q26 - Chinese military

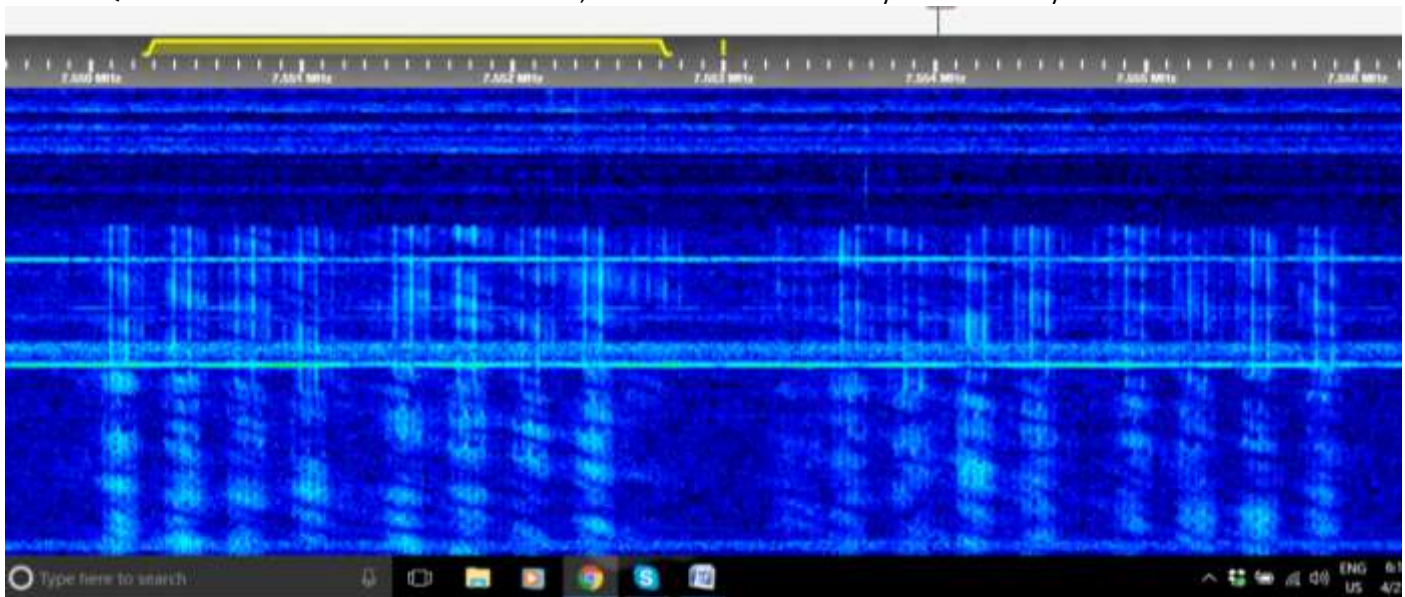
Mode: 4+4 QPSK 75/3000 LSB

Q26 Double sideband transmissions on 7553 kHz, 14-04, 0902 UTC and on 7553 kHz, 25-04, 0911 UTC. The transmissions started and ended at the same time.

7553 kHz. 4+4 QPSK 75/3000 transmission in LSB and USB on 15 April at 0902 UTC



Q26 Double sideband transmission on 25-04, 0911 UTC on 7553 kHz. As you can see they end at the same time.



19382 kHz, 28-04, 0230 UTC

F MCEU MCEU MCEU DE VSF17 VSF17 VSF17
F MCEU MCEU MCEU DE VSF17 VSF17 VSF17
F MCEU MCEU MCEU VSF VSF17 VSF17
XYXYXYXYXY HR MSG TO U PSE CY
0058 20 51 0427 2200
9079---7476=9091
7174 0524 0443 5372 6976 5499 8029 1041 2456 0373
2453 9264 8798 8194 2478 3062 8751 1940 0386 8038
HR MSG AGN

F MCEU MCEU MCEU DE VSF17 VSF17 VSF17
F MCEU MCEU MCEU DE VSF17 VSF17 VSF17
F MCEU MCEU MCEU VSF VSF17 VSF17
XYXYXYXYXY HR MSG TO U PSE CY
0058 20 51 0427 2200
9079---7476=9091
7174 0524 0443 5372 6976 5499 8029 1041 2456 0373
2453 9264 8798 8194 2478 3062 8751 1940 0386 8038

19382 kHz, 28-04, 0234 UTC

F CJGN CJGN CJGN DE VSF17 VSF17 VSF17
F CJGN CJGN CJGN DE VSF17 VSF17 VSF17
F CJGN CJGN CJGN DE VSF17 VSF17 VSF17
XYXYXYXYXY HR MSG TO U PSE CY
0057 40 51 0427 1630
9079---7471=9091
6432 3497 5790 5320 4521 4561 3440 3427 4981 4270
4786 8016 2138 4039 5683 2394 9073 7362 9526 4102
2785 8039 3058 1048 3487 8643 7854 6783 6972 7058
9820 2563 7621 4571 8194 1576 3297 0941 8792 3501
HR MSG AGN
F CJGN CJGN CJGN DE VSF17 VSF17 VSF17
F CJGN CJGN CJGN DE VSF17 VSF17 VSF17
F CJGN CJGN CJGN DE VSF17 VSF17 VSF17
XYXYXYXYXY HR MSG TO U PSE CY
0057 40 51 0427 1630
9079---7471=9091
6432 3497 5790 5320 4521 4561 3440 3427 4981 4270
4786 8016 2138 4039 5683 2394 9073 7362 9526 4102
2785 8039 3058 1048 3487 8643 7854 6783 6972 7058
9820 2563 7621 4571 8194 1576 3297 0941 8792 3501
END

DIPLOMATIC STATIONS



Egyptian diplomatic stations

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

16223.7 kHz, 05-04, 1302 kHz, SITOR-A 100/170
13416.7 kHz, 29-04, 0817 kHz, SITOR-A 100/170

Egyptian Embassy, Havana hex off-line crypto and ATU-80 tfc to MFA Cairo
Egyptian diplo i.p. Ends with QRVF XBVF EJVF YKZK GQFY 55341 +? KY

UTILITY ROUND-UP



Japan Maritime Self-Defense Force

海上自衛隊 Kaijō Jieitai

We received several nice Japanese military logs from André.

6805//9273 kHz, 12-04, 0400 UTC, CW, Japanese Navy (JJC20 = Navy Tokyo)

VVV JJC20 VVV JJC20 VVV JJC20

CQ CQ DE JJC20 JJC20

HR P1ÇV AR

LÔ FM ÇÛM **W49** BOÇOÇ NR 589 ÉÇ 12 1230 =

ZÇPD DZÂS DZÂS ÇÛÇP MORR DSDM ÂÇPP RSMZ SÇMÂ DZÂP DDÛM ÛÛRÇ ÛZMP RÛMZ MRÂR DDDÛ DÛPÇ ÛZZR ZZOS ÂPÇM
DPZZ ÛÂÔÛ RPMÐ ÂMDR RRSÂ RRMÛ ZÛMZ ÂDÛÇ DDOR OÇDÇ SOÇD PÛMO ÛÛPD SSPS OPOÇ SSZÇ SMÇO ÇÇZD DZPZ MPÛZ
RDOO SÇMÇ SDÇD SOMÛ PÂOÇ ÇZRO MÇZP ZMZP DZOR AR

RPT P1ÇV AR LÔ FM ÇÛM **W49** BOÇOÇ NR 589 ÉÇ 12 1230 =

ZÇPD DZÂS DZÂS ÇÛÇP MORR DSDM ÂÇPP RSMZ SÇMÂ DZÂP DDÛM ÛÛRÇ ÛZMP RÛMZ MRÂR DDDÛ DÛPÇ ÛZZR ZZOS ÂPÇM
DPZZ ÛÂÔÛ RPMÐ ÂMDR RRSÂ RRMÛ ZÛMZ ÂDÛÇ DDOR OÇDÇ SOÇD PÛMO ÛÛPD SSPS OPOÇ SSZÇ SMÇO ÇÇZD DZPZ MPÛZ
RDOO SÇMÇ SDÇD SOMÛ PÂOÇ ÇZRO MÇZP ZMZP DZOR AR

RPT P1ÇV AR

HR P2ÇV AR LÔ FM ÇÛM **W100** BOÇOÇ NR 590 ÉÇ 12 1237 =

CVAQLPLTFROXEYJDBMHI PNNBKIWG EYHGZJQPTIG ZBXFKQEHEVCUDRLNMPHA SVSDALJWCZQOTYBNISDP

KDBJSZQCAYIARGXDHUFV AR

RPT P2ÇV AR QEÇ (or MRÇ) 092120 092120 VA

Notes:

- **Wxx** is the group count.
- Strange text in the second message. Not the usual accented letters were sent but strings of not-accented letters. The group count is W100 (=100 groups). The odd message contains 100 characters while it should contain 100 groups.

2467 kHz, 12-04, 1819 UTC, i.p.

ÉÇ 13 0245 =

OMZO OOPR OOPR PÂÂO RÂSO ... / ... ÇMÂO ZRÂZ MPZZ ROÇZ AR K

DE PÛPÛ R 2 VA

DE PÛPÛ R 608 II 609 VA

DE PÛÛR VA

PÛÛR DE PÂDÇ OAR ? PÛPÛ K

DE PÛÛR OK VA

PÛPÛ DE PÂDÇ QTC V AR UR 1 K

DE PÛPÛ K

PÂDÇ HR MÇ V AR UR F PÛPÛ W46 B PÂDÇ NR 007 ÉÇ 13 0310 =

ZMZO MRÂO MRÂO DOÂÇ ÇZSÂ ZÛÛZ RDDM ÇPZZ ... / ...

DE PÛPÛ R 007 VA

DE PÂDÇ QRU VA

PÛPÛ DE PÛÛR QTC V AR ZPWT K

DE PÛPÛ K

PÛÛR HR MÇ V AR ZPF PÛPÛ W52 B PÛÛR NR 610 ÉÇ 13 0300 =

ZMZO OOQZ OOÂZ ZDPS ZOSZ ÇÛOO ZÛÇZ ... / ... = PÛÛR ZDÇM AR K

DE PÛPÛ R610 VA

DE PUÛR VA

6692.5 kHz, 10-04, 0413 UTC, Japanese Air Force

JJX5 de JJF19 QAF YME17 QRE RCh40 K



Beacons

2845 kHz, 26-04, 1519 UTC: EZ7 EZ7 EZ7 (3x) then silent for 3 minutes. Probably a fishnet beacon



Pirates

Pirate beacon on 6661 kHz: "Beacon 6660" which later changed to "Unlis Beacon Rus"

30-03, 1907 UTC, CW, sending "Beacon 6660"

03-04, 0548 UTC, CW, sending "Unlis Beacon RUS"

19-04, 1545 UTC, CW, sending "Unlis Beacon RUS"

HighPass claims on <http://www.radioscanner.ru> that he runs the above beacon. He says on that forum that the antenna is 15m above the ground. Power ca 30W. Output transistor IRF520N. Location? Probably in W. Russia



Unid stations

Unid stations logged by JPL and André, heard in New Zealand and Japan.

10815.5 kHz, 06-04, 1012 UTC, CW i.p.

LTN DE LEA K

LTN DE LEA K

R R R

?? II

LTN AS = =

LTO DE LEA K

LTO DE LEA K

LTO AS = =

LTP DE LEA K

LTP R 73 AS = =

LTE DE LEA K

LTQ 2/SO.

R R

R B. .. WM7. AS =

LTG DE R R R

..73 AS =

LTO DE LEA K

R R R R QRU E E =

RDDE LE QRU QAP ZY. 1FS/LEG/MZ .. AR II =

3197, kHz, 11-04, 1747 UTC, CW

VVV LV LV STN STN STN DE 5101 5101 85331 85331 85331

VVV LV LV STN STN STN DE 5101 5101 85331 85331 85331

VVV LV LV STN STN STN DE 5101 5101 85331 85331 85331

= = QTC NR 1014 20 04 12 0200 002 5101 =

39967 54192 69485 37694 93215 76415 10437 04895 28354 47185

80647 61465 1327 09798 30145 98715 45709 29145 18425 70147

VVV

(message repeated twice) SK SK

4306 kHz, 13-04, CW. Each transmission is 4 minutes

1500 UTC VVV = RWXE RWXE RWXE AR
 VVV = RWXE RWXE RWXE AR
 VVV = RWXE RWXE RWXE AR
 VVV = RWXE RWXE RWXE AR NIL SK GB

1631 UTC VVV = WZMV WZMV WZNV AR
 VVV = WZMV WZMV WZNV AR
 VVV = WZMV WZMV WZNV AR NIL SK GB

1700 UTC VVV = RWXE RWXE RWXE AR
 VVV = RWXE RWXE RWXE AR
 VVV = RWXE RWXE RWXE AR
 VVV = RWXE RWXE RWXE AR NIL SK GB

5942 kHz, 16-04, 0730 UTC, CW

VVV CQ (x3) DE A29 (x2) QSA ? K
 ZU4 QSA 5 QSA ? K
 ZU4 QRU VA
 VVV CQ (x3) DE A29 (x2) QSA ? K
 D3U QSA 5 QSA ? K
 D3U ÉÉ 3164 3164 K
 D3U QSA 5 É 3164 K
 D3U OK QRU VA
 0737z
 JF2 DE A29 QSA ? K
 5UK DE A29 QSA ? K

Outstations on 5671 kHz

5UK QSA 3 É É ? 3164 K
 6NA DE A29 QSA ? K
 A29 DE 6NA QSA 5 K
 JF2 DE A29 QSA 5 É 3164 K
 QSA 5 É 3133 K
 A29 OK QRU K
 JF2 OK SK
 6NA DE A29 QSA ? K
 6NA QSA 5 K
 A29 QSA 5 QRU SK

8189 kHz, 17-04, 0743 UTC

A9QB DE 3UQQ K
 A9QB DE 3UQQ QSA 3 K
 A9QB DE 3UQQ RPT 20W K
 A9QB DE 3UQQ QSY 5777 K

**Unid North Korean net**

Unid. Likely North Korean Air Defense. Could be the same net as the old M82 net. The format is slightly different but they both are using ABV for "I repeat".

3741.2 kHz, 10-04, 1522 UTC

GA9 de M4D QRU QRU QTC QTC = = VVV
 GA9 de M4D 8870 R4736 R6436 R8138 R8030 K K
 ABV ABV = = 8870 R4736 R6436 R8138 R8030 K
 CMG = 2345 R310 R05 R85 R09 R760 R11 R02 R01 K
 ABV ABV 2345 R310 R05 R85 R09 R760 R11 R02 R01 K

3147.3 kHz, 10-04, 1545 UTC

GA9 DE GA1 QSA ? K

3889.2 kHz, 10-04, 1558 UTC

CQ CQ DE CGC QTC 1002 R6623 R8580 R946 R2 R242 K K

3361.7 kHz, 11-04, 1811 UTC

GA9 DE H2Z QRU QTC = 0474 R7306 R9706 R0408 R6834 R7879 K
 ABV = 0474 R7306 R9706 R0408 R6834 R7879 K K K
 GA9 DE H2Z QRU QTC = 0474 R7306 R9706 R0408 R6834 R7879 K
 ABV = 0474 R7306 R9706 R0408 R6834 R7879 K K K

CMG QTC 0245 R... R08 R05 R05 R75 R04 R11 R04

ABV

CQ GA9 QSA ?

GA9 DE P9M QSA 2 K

3311.4 kHz, 11-04, 1829 UTC

VVV GA9 (x2) DE M4D (x2) QRU WG WG MATCH = = =

0633 R7799 R6805 R0408 R1443 KK

CMG CMG = = = 0300 R3115 R08 R05 R70 R03 R760 R11 R00 R01 R05 K

VVV GA9 DE M4D WG MATCH = = =

0633 R7799 R6805 R0408 R1443 KK

CMG CMG = = = 0300 R3115 R08 R05 R70 R03 R760 R11 R00 R01 R05 K

CQ DE GA9 QSA ?

GA9 DE P9M QSA 3 K

GA9 DE M4D QSA 4 QSA ? K

M82 example

VVV JVG JVG JVG DE BML BML QSA 5 QSA? 508 (R2)

QTC NR 508 24 9 0226 2200 497 845 =

18304 93023 09053 58147 14811 91829 33424 36008 86120

ABV QTC

NR 508 24 9 0226 2200 497 845 =

18304 93023 09053 58147 14811 91829 33424 36008 86120

SK SK

VVV JVG JVG JVG DE BML BML QSA 3 QSA? QTC 587 (R2)

QTC NR 587 27 21 0226 2330 745 218 =

99527 96389 66774 68028 16375 00912 06309 69032 33377 17074 R

73267 48976 37269 36355 75722 853T6 76215 2585T 4T925 22941 R

41247

ABV QTC NR 587 27 21 0226 2330 745 218 =

99527 96389 66774 68028 16375 00912 06309 69032 33377 17074 R

73267 48976 37269 36355 75722 853T6 76215 2585T 4T925 22941 R

41247

SK SK

Remarks: sent "r" as separator after 10 groups. Short zero.

Another possible North Korean simplex CW net, also logged by André. Copied before in December 2016 and January 2017:

5120 kHz, 18-12-2016, 0600 UTC H721 wkg H761 H771 H751 H731 H728 HMJ71

3690 kHz, 13-01-2017, 1301 UTC CP CP de H721

8720 kHz, 18-07, 0902 UTC

CP de H721 QRK ? K

CP de H721 QRK ? K

3690 kHz, 18-04, 1300 UTC

CP DE H721 QRK ? K

HML5 1 AR

H721 QRU AR

H721 H771 3 ?

H721 2 K

H771 QRU K

H721 QRU K

H741 2 ?

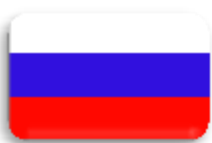
H721 H741 2 K

H741 QRU
H721 AR
H741 AR
H791 1
H731 5
H721 H791 1
H721 H791 1
H791 QRU
H721 AR
H791 AR
H795 2
H721 H795 2
H795 AR
H721 AR
H731 5
H721 H731 2
H731 QRU AR
H721 AR
CP DE H721 ?
CP DE H721 ?
AR AR

Notes: QRK is only used during the CQ call (CP DE H721 QRK? K) of the Net Control Station. During the radio checks each station only sends the value of QRK (1 to 5). So "1" instead of "QRK 1".

RUSSIAN MILITARY TRANSCRIPTS

Excerpts from logs submitted by AB, WP3, F5JBR, JPL, JU, Tom. tING.



M32

Russian / CIS Military CW Stations

2217 kHz, 03-04, 0333 UTC	XXX E5W7 de T6BI 55555 55555 = 00900 00900 (x2) and R ? K
3954.5 kHz, 03-04, 0448 UTC	XXX U6Z4 MAJORAN 0563 K
7767 kHz, 10-04, 0424 UTC	XXX ONM6 BOK 3551 K
3395 kHz, 12-04, 1651 UTC	XXX LB1E 37402 KRANOWEER 3456 7890 K
7964 kHz, 12-04, 1657 UTC	XXX WEGI 03493 AKRIHIN 5758 1074 INLANDEC 0373 9205 K
3395 kHz, 12-04, 1710 UTC	XXX LB1E 26149 LIPUŌIJ 0564 3914 LOZUNGOWYJ 6170 9146 K
12605 kHz, 14-04, 1350 UTC	HKSX HKSX HKSX DE PRND PRND K K

10683//12688//13443 kHz, 14-04

1219 UTC	XXX XXX LNUC LNUC 85955 RAVODVAZ 4999 6170
1232 UTC	XXX XXX LNUC LNUC 36611 KLIOeOMEOe 4478 7169
1233 UTC	XXX XXX LNUC LNUC 18953 ROWOSTIH 5831 4768 PUDLINGOWYJ 8318 0823 TOROOeUM 5354 9851

10987 kHz, 16-04, 1130 UTC

B1Z9 B1Z9 DE MVIA K
MZHM MZHM DE MVIA K
IVV9 IVV9 DE MVIA K
PNX4 PNX4 DE MVIA K
II2X II2X DE MVIA K
NLBA? DE MVIA K

7421 kHz, 11-04

0640 UTC Net control clg LT9R and GA8T. QSX on 7785 kHz
 0705 UTC XXX LW6T AWANSE 985 K

7785 kHz, 11-04, 0620 UTC, i.p. 25 groups

5401 = 3301 = 1774 =
 4584 = 6526 = 4777 = 0047 = 1524 = 0014 = 1483 = 7928 = 8252 = 4762 =
 4075 = 4895 = 5817 = 8090 = 1125 K

7785 kHz, 11-04, 0712 UTC

LW6T = 5045 = 4204 = 9438 = 9234 = 1700 = 6484 = 8502 = 5678 = 9616 =
 5997 = 2940 = 4150 = 7783 = 9524 = 0855 = 7220 = 7828 = 8416 = 7932 =
 9315 = 8503 = 5966 = 4779 = 6239 = 1913 = 8047 = 2885 = 3992 = 8439 =
 9731 = 2810 = 2017 = 3088 = 3521 = 4045 = 0015 = 9431 = 9582 = 7252 =
 0971 = 4946 = 8910 = 2652 = 1012 = 8770 = 7729 = 4948 = 8458 = 3287 =
 3477 = 8307 = 4837 = 1695 = 1173 = 3831 = 3101 = 1129 = 4153 = 0484 =
 0753 = 2561 = 9808 = 8628 = 0882 = 4082 = 2877 = 0765 = 0902 = 6865 =
 4761 = 9401 = 9021 = 5354 = 0163 = 5062 = 0232 = 8864 = 4049 = 7910 =
 1169 = 8871 = 0977 = 5203 = 0378 = 3344 = 0435 = 8046 = 4848 = 1837 =
 4279 = 9444 = 7501 = 4648 = 7752 = 4476 = 4912 = 0529 = 0783 = 1564 =
 3474 = 9160 = 0811 = 9425 = 3229 = 7688 = 5537 = 8953 = 6088 = 8588 =
 7761 = 9408 = 4516 = 1931 = 2389 = 5829 = 7235 = 2135 = 4165 = 6031 =
 1626 = 9740 = 2549 = 4092 = 9282 = 2730 = 11126 K

Note that the final group matches the date (11) and number of groups (126)

7759 kHz, 13-04, 0611 UTC

Net control on 7759 kHz : OMN6
 Outstations on 7411 kHz

OMN6 DE RR7X QTC NR 4748 AA =
 4474 AA = 1954 AA = 0137 AA = 1158 AA = 3598 AA = 2531 AA = 5484 AA = 0002 AA = 2608 AA = 0376 AA =
 8707 AA = 1206 AA = 1312 K
 ON_7759 AR

7759 kHz, 13-04, 0614 UTC

OMN6 DE RR7X QTC NR 7515 AA
 OMN6 AS 3 K
 OMN6 DE RR7X QTC NR 7515 AA =
 8481 AA = 5477 AA = 4218 AA = 4482 AA = 8664 AA = 6544 AA = 3231 AA = 1721 AA = 1235 AA = 9932 AA =
 4407 AA = 2177 AA = 1340 AA = 1037 AA = 9838 AA = 7093 AA = 8702 AA = 3884 AA = 5815 AA = 9451 AA =
 2658 AA = 9188 AA = 1322 K

7759 kHz, 13-04, 0621 UTC

ONM6 AR
 XXX OZERO 34118 XXX OZERO 3418 K
 OMN6 DE RR7X RR7X == LEWKO AA 1269 K
 OMN6 DE XXX KAPKAN 1214 K

7759 kHz, 13-04, 0740 UTC

CQ CQ AS 5 K

7759 kHz, 13-04, 0758 UTC

XXX ANKETA 7267 K
 DE RR7X R AA = DOBLADE 4108 K

7759 kHz, 13-04, 0809 UTC

OMN6 DE RR7X QTC NR 3036 AA

OMN6 AA K

RR7X AA = 8235 AA = 8553 AA = 7814 AA = 7968 AA = 4460 AA = 2431 AA = 7011 AA = 9668 AA = 9558 AA =
5357 AA = 3036 AA = 5459 AA = 8152 AA = 4492 AA = 1812 AA = 7977 AA = 7616 AA = 2493 AA = 5300 AA =
8069 AA = 9422 AA = 7538 AA = 6592 AA = 5328 AA = 2442 AA = 0959 AA = 7879 AA = 8054 AA = 7117 AA =
8880 AA = 6194 AA = 1384 AA = 7377 AA = 6311 AA = 6884 AA = 8512 AA = 0477 AA = 5174 AA = 9686 AA =
3085 AA = 6472 AA = 0090 AA = 9730 AA = 1769 AA = 5341 AA = 1542 AA = 4571 AA = 3838 AA = 9730 AA =
7198 AA = 8988 AA = 1755 AA = 7072 AA = 9999 AA = 0615 AA = 0243 AA = 5821 AA = 7811 AA = 5223 AA =
2228 AA = 0095 AA = 5049 AA = 6080 AA = 8144 AA = 3685 AA = 4820 AA = 2671 AA = 1540 AA = 6917 AA =
1638 AA = 7643 AA = 7060 AA = 1573 AA = 0980 AA = 0306 AA = 6266 AA = 0267 AA = 1587 AA = 6999 AA =
2221 AA = 4134 AA = 5189 AA = 6030 AA = 3817 AA = 1742 AA = 9040 AA = 0256 AA = 9985 AA = 0901 AA =
1358 AA = 8478 AA = 9971 AA = 6357 AA = 7146 AA = 7013 AA = 0110 AA = 2383 AA = 2009 AA = 3139 AA =
0853 AA = 9265 AA = 3751 AA = 2584 AA = 5003 AA = 8119 AA = 1247 AA = 8602 AA = 7997 AA = 6748 AA =
5868 AA = 9043 AA = 6677 AA = 1173 AA = 9084 AA = 7003 AA = 1764 AA = 1879 AA = 9530 AA = 3190 AA =
0667 AA = 4267 AA = 8290 AA = 6482 AA = 2092 AA = 3236 AA = 4069 AA = 6628 AA = 4013 AA = 0558 AA =
1269 AA = 2726 AA = 5598 AA = 0920 AA = 9591 AA = 1132 AA = 5169 AA = 5950 AA = 3102 AA = 1625 AA =
8760 AA = 7451 AA = 2106 AA = 7744 AA = 7601 AA = 3184 AA = 1821 AA = 6345 AA = 0017 AA = 0125 AA =
1557 AA = 4661 AA = 1685 AA = 4391 AA = 4724 AA = 1813 AA = 8022 AA = 8186 AA = 2584 AA = 2869 AA =
1086 AA = 9743 AA = 1138 AA = 7492 AA = 7717 AA = 5634 AA = 7284 AA = 4931 AA = 2811 AA = 7305 AA =
8377 AA = 3729 AA = 6063 AA = 7788 AA = 5696 AA = 2144 AA = 1819 AA = 6647 AA = 6629 AA = 8133 AA =
4711 AA = 6418 AA = 0416 AA = 5688 AA = 9523 AA = 8130 AA = 7375 AA = 2822 AA = 2679 AA = 9456 AA =
4465 AA = 0264 AA = 3420 AA = 9842 AA = 3571 AA = 3848 AA = 2262 AA = 8947 AA = 2974 AA = 7276 AA =
7972 AA = 4054 AA = 7393 AA = 6158 AA = 6615 AA = 0132 AA = 13205 K

7759 kHz, 13-04, 0915 UTC

XXX KALIBR 3062 K

7421 kHz, 24-04, 0553 UTC

XXX LW6T WTULKA 5036 K

8440 kHz, 18-04, 0431 UTC

PFKX DE 1XSR K

PFKX DE 1XSR QSA ? K

PFKX DE 1XSR QSA 3 K

8440 kHz, 18-04, 0436-0625 UTC

XXX 2V8I 42426 31393 PACANENOK 9357 5353 K

PFKX DE 1XSR K

PFKX DE 1XSR RPT K

1XSR 116 21 K

1XSR 120 132 7 K

1XSR 120 132 7 K

1XSR 125 083 0 K

1XSR 129 061 4 K

1XSR RPT K

1XSR R K

1XSR 126 24 0910 K

1XSR 145 06 50 K 1XSR R K

5350 kHz, 25-04

1445 UTC AZ5X QTC AR. AZ5X 792 = 2858 1762 7831 1576 9857 6143 6420 7294 2858 2509 QLN K

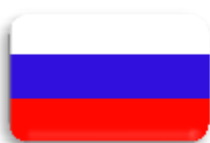
1448 UTC AZ5X QTC AR. AZ5X 275 = 3534 4989 9995 7882 2165 4384 3534 2507 QLN K

1450 UTC AZ5X QTC AR. AZ5X 010 = 7226 3796 9163 4457 3651 7226 2506 QLN K

1452 UTC AZ5X QTC AR. AZ5X 617 = 5348 2980 6080 7709 1273 5348 2506 QLN K

8440 kHz, 20-04, 0335-0652 UTC

XXX 2V8I 92405 83213 OSELOTAZ 0523 1688 K
PFKX DE 1XSR K
XXX TE1W 03959 WOZDERVNYJ 7991 0774 K
1XSR TE1P 03949 WOZDERVNYJ 7991 0774 K
1XSR DE PFKX K
1XSR DE PFKX K
PFKX DE 1XSR K
XXX 2V8I 95202 41817 PAHTALXNYJ 3059 3514 K
1XSR R XXX 2V8I 95202 41817 PAHTALXNYJ 3059 3514 K
FPKX OK K
PFKX DE 1XSR K PFKX DE 1XSR K
PFKX DE 1XSR K
PFKX DE 1XSR K PFKX DE 1XSR K
1XSR DE PFKX K
1XSR DE PFKX K
1XSR DE PFKX K 0652z 1XSR DE PFKX K



M32a
Russian Navy
Voyenno-Morskoy Flot Rossii

7632 kHz, 05-04, 1914 UTC (Pacific Fleet HQ, Vladivostok)

VVV RMEG DE RJS QSA ? K
VVV RMEG DE RJS QSA ? K
VVV RHY75 DE RJS QSA ? K
VVV RHY75 DE RJS QSA ? K
VVV RFE78 DE RJS QSA ? K
VVV RFE78 DE RJS QSA ? K

2558 kHz, 01-04, 1822 UTC

RCQK wkg RJD52
QTC SML 181 18 1 2105 181 =
FM RCQK FOR RJD52 RJD88 =
01181 99435 10478 41/// 80910 40070 58005 70200 83000 22242 88000 80000 01014 =
AR RBGR K

2558 kHz, 01-04, 1827 UTC

RBGR wkg RJD52
QTC SML 198 18 1 2100 198 =
FM RBGR FOR RJD52 RJD88 =
01181 99429 10475 41/97 01504 10040 40266 54017 70100 80/// 0210 00260 88000 80000 01014
AR RBGR K

6458 kHz, 03-04, 0445 UTC

XXX RLO ÉLASTIÔNYJ 01 1295 0731 K

11155 kHz, 12-04, 0641 UTC

XXX RLO 45912 LAKOCHKET 0189 1424 K
XXX RLO 21007 KASATOÖYA 4927 9499 K
XXX RLO 18433 WINEGRET 2147 7891 K

6290 kHz, 12-04, 1555 UTC, RHO62: Rus Navy Ship Admiral Vladimirskiy

rit de rho62 qsa? qtc k

RMFE: Russian Navy

RHO62: Russian Navy Ship Admiral Vladimirskiy

RJP30: Russian Navy Ship Senezh

RMNW: Russian Navy

RMMA: Russian Navy ship Victor Leonov (SSV-175)

RHN85: Russian Navy

8345 kHz, 12-04

0604 UTC RIT DE RMFE 286 19 12 0900 286 =
SML FOR RJH45 RJD38 RJH74 =
12061 99573 50110 44/98 62713 10006 49959 54071 70321 8//// 22200 00070 2//// 399// 12014 =
+ RMFE K

0650 UTC RIW DE RHO62 112 20 12 0904 112 =
SML FOR RJH45 RJD38 RIF4 =
12061 99486 70059 42598 53405 10096 40235 57005 84231 22253 00114 20301 314// 40401 88000 12015 =
+ RHO62 K

0703 UTC RIW DE RHO62 792 34 12 0958 792 =
FOR RJH45 RJD38 RIF4 = KKXX
12047 0600/ 74838 00557 88881

0914 UTC RIT DE RMFE 454 19 12 1205 454 =
SML FOR RJH45 RJD38 RJH74 =
12121 99573 50110 44/98 62716 10006 4*9933 54035 70222 8//// 22200 00070 2//// 399// 12014 =
+ RMFE K

1200 UTC RIT DE RMFE 233 18 12 1450 233 =
SML FOR RJH45 RJD38 RJH74 =
12001 99573 50110 44/98 52715 10006 49933 54035 70222 8//// 22200 00070 2//// 399// 12014 =
+ RMFE K

1548 UTC RIT DE RHO62 722 20 12 1803 722 =
SML FOR RJH45 RJD38 RIF4 =
12151 99475 70069 42598 63506 10106 40230 58015 86280 22250 00124 20301 3//// 88000 80000 12015 =
+ RHO62 K OK QWH 6290 K

1811 UTC RIT DE RHO62 469 21 12 2104 469 =
SML FOR RJH45 RJD38 RIF4 =
12181 99471 70072 42598 50308 10119 40220 57010 85280 22252 00129 20402 314// 40503 88000 80000
12016 =
+ RHO62 K

1820 UTC RIT DE RMFE 602 19 12 2112 602 =
SML FOR RJH45 RJD38 RJH74 =
12181 99573 50110 44/98 52709 10006 49919 54035 70222 8//// 22200 00070 2//// 399// 12014 =
+ RMFE K

1958 UTC RIT DE RHO62 284 34 12 2253 284 =
FOR RJH45 RJH74 RJD38 = KKXX 12047 1800/ 74706 00715 88881

2009 UTC RIT DE RJP30 208 16 12 2104 208 =
FOR RJH74 RJH45 =
12181 99741 10382 41497 60713 11030 40120 52020 70222 885.1 22221 00020 20404 12013 =
+ RJP30 K

2011 UTC RIT DE RJP30 668 38 12 2130 668 =
FOR RJH74 RJH45 = KKHH 11047 2010/ 17254 03815 88882

2041 UTC RIW DE RMMA QYT9 QSA4 QSA? K

12464 kHz, 12-04

1214 UTC RCV DE RMNW 352 16 12 1500 352 =
 FOR RJE73 RJH45 = 12121 (QRM RHO62 CLG RMP) 99374 10262 41797 73204 10190
 70312 87200 22261 00170

1215 UTC ? DE RHO62 313 20 12 1500 313 =
 SML FOR RJH45 RJD38 RIF4 =
 12121 99475 70068 42598 23405 10109 40245 54001 82510 22253 00126 20301 314// 40402 88000 80000
 12016 =
 + RHO K (QRM RMNW TO RCV)

0904 UTC RIW DE RHN85 708 59 12 1045 708 =
 FM RAA =
 12951 71052 43539 12057 K

2558 kHz, 17-04, 1807 UTC

QTC SML 197 20 17 2105 197 = FM RCJO FOR RJD52 RJD88 =
 WWHH/ 17181 99454 10478 41/95 /1403 10110
 40213 54000 70211 80000 22200 20000 40000 88000 80000 17016 =
 AR RCJO K



M32b
Russian Naval Aviation
Aviatsiya Voennno-morskogo Flota Rossii

8816 kHz, 07-04, 0715 UTC

RJF94 RJC38 DE 42112 QTO
 0700 QRD XUMU XLRKE QRE 0900 QBD 0415 K
 QTH 15231 14041 QTR 0811 QRE XUMU 0855 K
 QQM XUMU 0848 SK

8816 kHz, 07-04, 1312 UTC

RJF94 RJC38 DE 75275 QTO
 1300 QRD XLMV XLLV QBD 0600 QRE 1510 K
 QQL ULPE 1402 QBD 0500 QRE 1505 K
 QQM XLMV 1505 SK

8816 kHz, 07-04, 1101 UTC

RJF94 RJC38 DE 42112 QTO
 1045 QRD XLMV XUMU QRE 1250 QBD 0415 K
 QAY XLPB 1152 QRE XLMV 1300 K
 QQM XLMV 1302 SK



M32c
Russian Air Force
Voyenno-vozdushnye sily Rossii

7412 kHz, 12-04

1645 UTC XXX 1QRF 10497 BASON 7129 2234 K //7397
 1648 UTC XXX WEGI 34640 NAGRUZKA 4646 3211 IBISOPIRS 7398 3725 K //7397
 1653 UTC XXX W6BY 23236 REJNOGA 8549 0830 ANUSOBOD 0851 4806 TRAKONRAW 2993 2220
 UZORODXG 5073 9899 K //7397

Tu-95MS Bear H net

8029 kHz, 06-04, 0820 UTC W-marker
 8029 kHz, 10-04, 0641 UTC W-marker
 8029 kHz, 10-04, 0920 UTC W-marker
 8029 kHz, 12-04, 0640 UTC 2QLC 2QLC 2QLC DE TL5 TRL5 K
 8029 kHz, 12-04, 0647 UTC 486 240 457 107 306 305 x55 705 K
 8029 kHz, 12-04, 0940 UTC W-markers
 8029 kHz, 14-04, 0600 UTC W-markers
 8090 kHz, 14-04, 0614 UTC Voice net
 8029 kHz, 24-04, 0920 UTC W-markers

8170 kHz, 11-04

0320 UTC MWTL DE 2GM9 QTC K and 2GM9 QTC NR 7 = 890 952 534 028 534 085 138 K
 0332 UTC MWTL DE 4SG8 QTC K and 4SG8 657 578 532 622 300 304 954 834 086 722 496 085 656 K
 0337 UTC 4SG8 216 611 534 424 274 123 K
 0342 UTC MWTL DE 2GM9 QTC K and 2GM9 QTC NR 8 = 890 521 899 847 282 085 132
 0347 UTC MWTL DE 4WDY QTC K and 4WDY 329 846 085 422 K
 0351 UTC MWTL DE 4SG8 QTC K and 4SG8 9 = 549 532 899 200 807 251 863 086 722 396 085 933 K
 0357 UTC MWTL DE 2GM9 QTC K and 2GM9 QTC NW 9 = 890 631 065 884 704 808 085 479 K
 0409 UTC MWTL DE 4SG8 QTC K and 4SG8 = 579 955 218 616 532 263 834 086 361 032 K
 0425 UTC MWTL DE 4SG8 QTC K and 4SG8 = 549 014 785 626 808 785 405 863 361 692 K



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

31-03, 1814 UTC		30 chr EAM NMDBTH JAZ23ZGMTSD7XRPZZWTQCKM
08-04, 1519 UTC	Detergent	30 chr EAM K6FAT4 TR63NU3Y5DIWDHGNDISW25LZ
08-04, 1531 UTC	Detergent	30 chr EAM for Horse J6XCZE 5VS3KLNJ3X2KM5TBV5HJJFSG
08-04, 1607 UTC	Detergent	30 chr EAM for Popover J642M6 DXHCSEFJICQEXICG55KUAGTV
08-04, 1623 UTC	Detergent	30 chr EAM for popover J6IMLA 7XIFEHBUPWCVCVKFKQ3BKFXK
09-04, 0437 UTC	Guidepost	30 chr EAM K64XAF MIT5HKQW3PUTLGCMRPSYPJ4L
12-04, 1448 UTC	Suitable	30 chr EAM for Trudy-67 LHLDTK CKDCYI33TB3TFCQILHESBDUF
12-04, 1506 UTC	Suitable	30 chr EAM K6URZD SU77XIGG675PGC6HTGMVMTU65
12-04, 1509 UTC	Suitable	30 chr EAM K66NLO GCEDNJGUTRAJJV25KG4XS5U7
12-04, 1513 UTC	Suitable	30 chr EAM K65BCO BNXG7UIZGZ7H4O75VQ3XB5TC
12-04, 1704 UTC	Suitable	30 chr EAM LHARZ5 X6GMNW7S6DOP6X5US6QL disregard this message
12-04, 1707 UTC	Suitable	30 chr EAM LHARZ5 X6GMNW7S6DOP6X5US6SQL6XL
13-04, 1631 UTC	Fletcher	30 chr EAM K6GMXE QW22HRUTUPLPUP4KWY6CHTHK
13-04, 1636 UTC	Fletcher	30 chr EAM K6GMXE QW22HRUTUPLPUP4KWY6CHTHK
14-04, 1705 UTC	Prescott	30 chr EAM for Wimp LHORX7 LRL47FBLGFOB3CDPFAAKIQSD
14-04, 1410 UTC	Prescott	102 chr EAM ZYIWXJ 4FGIRFUL7NYHWPIGZTPUZCOKTVLTHEWY6V25WWWYDQINP7 BRQD7 B4TI5BICKFG7WRKVZH7TT4GQNBGNMCOXY3PGU6C74EGF
14-04, 1510 UTC	Prescott	52 chr EAM LHVPXO OWWLGN5O2YCNNTOXRA6DOSN7G5NBOEOXRH83YSNQ3VUMTN
14-04, 1723 UTC	Prescott	All stations this is Wimp. This is Prescott; disregard this message
14-04, 1723 UTC	Prescott	30 chr EAM for Wimp LHIC7T 2D5QZVXZTQ3CYNUPJFJS7SN
17-04, 1334 UTC	Calloway	30 chr EAM for Stylish LHQLRK D4DMT3MS4D5LM3KZJWL3D2IM
17-04, 1352 UTC	Calloway	30 chr EAM for Stylish LHWCP E FG2QRRWBXJGOHDKQVHKPV232
19-04, 2022 UTC	Forseen ???	30 chr EAM N7UO2J IEVYY7IGNAAFVN0U7MJWJHI
24-04, 1645 UTC	Crossfire	EAM i.p. ERHAOMTPI2DOPKK5
26-04, 1745 UTC	Combatant	17 chr EAM for Baldy-27 LHGVOQ IDDW7RL5VNP
26-04, 1800 UTC	Combatant	30 chr EAM SONAUX SVIHVAY2CWFY7ZGQSZXXWFJ
26-04, 1802 UTC	Combatant	30 chr EAM SOVSOA AP7VFAFRWISLXPPTAJSO2OVX

26-04, 1804 UTC	Combatant	30 chr EAM SOI5I3 VMGZIW4UZNC4GXQUNJ5KPSDZ
26-04, 1839 UTC	Combatant	30 chr EAM SONAUX SVIHVAY2CWFY7ZGQSZXXWFI
26-04, 1843 UTC	Combatant	30 chr EAM SOI5I3 VMGZIW4UZNC4GXQUNJ5KPSDZ

LOGS SECTION

Code	Freq	Date	UTC	Day	Details	Mode	ctrb
---	5446	3-4	1702	Mon	VVV 3HS (x3) DE L5G (x2) Q... 12 K	CW	(AB)
---	10815.5	6-4	1012	Thu	LTN DE LEA K. LTO DE LEA K. LTP DE LEA K. LTP R 73 AS = LTE DE LEA K. LTQ 2/SO. R R R B. .. WM7. AS = LTG DE R R R	CW	(JPL-NZL)
---	3197	11-4	1747	Tue	VVV LV LV STN STN DE 5101 5101 85331 = = QTC NR 1014 20 04 12 0200 002 5101 = 39967 54192 69485 ...	CW	(F5JBR-J)
---	3361.7	11-4	1811	Tue	GA9 DE H2Z QRU QTC = 0474 R7306 R9706 R0408 R6834 R7879 K ABV = 0474 R7306 R9706 R0408 R6834 R7879 K K K	CW	(F5JBR-J)
---	3311.4	11-4	1829	Tue	VVV GA9 (x2) DE M4D (x2) QRU WG WG MATCH = = = 0633 R7799 R6805 R0408 R1443 KK CMG CMG = = =	CW	(F5JBR-J)
---	4306	13-4	1500	Thu	VVV = RWXE RWXE RWXE (R4) AR NIL SK GB	CW	(F5JBR-J)
---	4306	13-4	1631	Thu	VVV = WZMV WZMV WZNV AR (R4) NIL SK GB	CW	(F5JBR-J)
---	4306	13-4	1700	Thu	VVV = RWXE RWXE RWXE AR (R4) NIL SK GB	CW	(F5JBR-J)
---	5942	16-4	0730	Sun	VVV CQ (x3) DE A29 (x2) QSA ? K. ZU4 QSA 5 QSA ? K. ZU4 QRU VA (see N&O 235)	CW	(F5JBR-J)
---	6661	19-4	1545	Wed	Unid pirate sending: UNLIS BEACON RUS	CW	(JPL-NZL)
---	12856	27-4	0712	Thu	XSG: Shanghai Radio sending M95 messages: N/W XSG NR 166 CK 41/37 26 1618 = 3337 43TT 6UU6 (0315) 7DT6 3AD4 ... AR	CW	(JPL-NZL)
---	8600	27-4	0809	Thu	XSV: Tanjin Radio sending M95 messages: N/W XSV NR 026 CK 034 12 1429 = T33T 53TT 6UU6 (0064) 3U5D 3ADN T7DA ... AR XSV SK	CW	(JPL-NZL)
---	12856	28-4	0705	Fri	XSG: Shanghai Radio sending M95 type messages. NEXT BT N/W NR 175 = N/W XSG NR 175 CK 60/54 27 2208 = 7T44 53TT 6UU6 ...	CW	(JPL-NZL)
---	8600	28-4	0726	Fri	XSV: Tianhin Radio sending M95 type messages. N/W XSV NR .67 CK .3 23 2004 = ..170540 AA3. 3A6T 3.63 ...	CW	(JPL-NZL)
E06	15645	6-4	0500	Thu	951 842 106 69408 34184 91092 ... 14864 40874 76970 842 106 00000	USB	(AB-RUS/ES/HFD)
E06	17470	6-4	0600	Thu	951 842 106 69408 34184 91092 ... 14864 40874 76970 842 106 00000	USB	(AB-RUS/ES/HFD)
E06	5186	6-4	2030	Thu	891 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000	USB	(AB)
E06	15645	7-4	0500	Fri	951 842 106 69408 34184 91092 ... 14864 40874 76970 842 106 00000	USB	(AB-RUS/ES)
E06	17470	7-4	0600	Fri	951 842 106 69408 34184 91092 ... 14864 40874 76970 842 106 00000	USB	(AB-RUS/ES)
E06	5197	7-4	2130	Fri	634 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000	USB	(AB)
E06	17437	15-4	1100	Sat	E06 instead of F06. 832 759 60 10749 89081 91903 ... 96201 49833 83660 759 60 00000	USB	(AB-RUS/Danix-GRC)
E06	15626	15-4	1200	Sat	E06 instead of F06. 832 759 60 10749 89081 91903 ... 96201 49833 83660 759 60 00000	USB	(AB/Danix/HFD)
E06	17437	16-4	1100	Sun	E06 instead of F06. 832 759 60 10749 89081 91903 ... 96201 49833 83660 759 60 00000	USB	(AB/Danix/ES)
E06	15626	16-4	1200	Sun	E06 instead of F06. 832 759 60 10749 89081 91903 ... 96201 49833 83660 759 60 00000	USB	(AB/Danix/MPJ/ES)
E06	15645	21-4	0500	Fri	951 842 106 69408 34184 91092 ... 14864 40874 76970 842 106 00000	USB	(AB-RUS)
E06	17470	21-4	0600	Fri	951 842 106 69408 34184 91092 ... 14864 40874 76970 842 106 00000	USB	(AB-RUS)
E06	5197	21-4	2130	Fri	634 634 634 00000. Stops, then at 2133 UTC a message followed	USB	(AB/Sha)
E06	5197	21-4	2133	Fri	634 149 52 12265 10965 47839 ... 53234 05124	USB	(AB/Sha)

					95732 149 52 00000		
E07	9064	1-4	0600	Sat	024 1 289 49 72698 65165 52647 ... 02621 48799 40553 000 000	USB	(AB/Wix)
E07	10264	1-4	0620	Sat	024 1 289 49 72698 65165 52647 ... 02621 48799 40553 000 000	USB	(AB/ES)
E07	11464	1-4	0640	Sat	024 1 289 49 72698 65165 52647 ... 02621 48799 40553 000 000	USB	(AB/ES)
E07	9064	2-4	0600	Sun	024 1 289 49 72698 65165 52647 ... 02621 48799 40553 000 000	USB	(AB/Wix)
E07	10264	2-4	0620	Sun	024 1 289 49 72698 65165 52647 ... 02621 48799 40553 000 000	USB	(AB)
E07	11464	2-4	0640	Sun	024 1 289 49 72698 65165 52647 ... 02621 48799 40553 000 000	USB	(AB)
E07	14603	2-4	1700	Sun	641 1 866 83 36440 83922 63930 ... 88345 46673 69807 000 000	AM	(AB/MPJ/HFD)
E07	13403	2-4	1720	Sun	641 1 866 83 36440 83922 63930 ... 88345 46673 69807 000 000	AM	(AB/MPJ/SP1)
E07	12103	2-4	1740	Sun	641 1 866 83 36440 83922 63930 ... 88345 46673 69807 000 000	AM	(AB/MPJ)
E07	14603	5-4	1700	Wed	641 641 641 000	AM	(AB/MPJ/HFD)
E07	13403	5-4	1720	Wed	641 641 641 000	AM	(AB/HFD)
E07	7526	6-4	2030	Thu	358 1 984 68 #9579	USB	(HFD)
E07	7526	6-4	2030	Thu	358 1 984 68 09579 38471 93064 ... 66114 33695 30321 000 000	USB	(AB/HFD)
E07	5884	6-4	2050	Thu	358 1 984 68 09579 38471 93064 ... 66114 33695 30321 000 000	USB	(AB/HFD)
E07	9064	8-4	0600	Sat	024 024 024 000	USB	(AB/ES/HFD)
E07	10264	8-4	0620	Sat	024 024 024 000	USB	(AB/ES/HFD)
E07	9064	9-4	0600	Sun	024 024 024 000	USB	(AB)
E07	10264	9-4	0620	Sun	024 024 024 000	USB	(AB)
E07	14603	9-4	1700	Sun	641 641 641 000	AM	(AB/MPJ)
E07	13403	9-4	1720	Sun	641 641 641 000	AM	(AB)
E07	20574	11-4	1100	Tue	Unable to read if but zeros audible.	USB	(ES-AUT)
E07	19074	11-4	1120	Tue	Unable to read if but zeros audible.	USB	(ES-AUT)
E07	14603	12-4	1700	Wed	641 641 641 000	AM	(AB/MPJ)
E07	13403	12-4	1720	Wed	641 641 641 000	AM	(AB/PW2)
E07	15819	12-4	1900	Wed	842 842 842 000	USB	(AB/MPJ/PW2/HFD)
E07	14419	12-4	1920	Wed	842 842 842 000	USB	(AB/MPJ/HFD)
E07	9387	13-4	2010	Thu	358 1 984 68 09579 38471 93064 ... 66114 33695 30321 000 000	AM	(AB/ES)
E07	7526	13-4	2030	Thu	358 1 984 68 09579 38471 93064 ... 66114 33695 30321 000 000	AM	(AB/ES)
E07	5884	13-4	2050	Thu	358 1 984 68 09579 38471 93064 ... 66114 33695 30321 000 000	AM	(AB/ES)
E07	20574	14-4	1100	Fri	504 504 504 000	USB	(AB-RUS/HFD)
E07	19074	14-4	1120	Fri	504 504 504 000	USB	(AB-RUS/HFD)
E07	9064	15-4	0600	Sat	024 1 310 18 65928 90935 33261 69857 08703 46640 40846 72308 26844 52071 39790 49856 42583 73496 58963 38194 22564 82529 000 000	USB	(AB/ES)
E07	10264	15-4	0620	Sat	024 1 310 18 65928 90935 33261 69857 08703 46640 40846 72308 26844 52071 39790 49856 42583 73496 58963 38194 22564 82529 000 000	USB	(AB/ES)
E07	11464	15-4	0640	Sat	024 1 310 18 65928 90935 33261 69857 08703 46640 40846 72308 26844 52071 39790 49856 42583 73496 58963 38194 22564 82529 000 000	USB	(AB/ES)
E07	9064	16-4	0600	Sun	024 1 310 18 65928 90935 33261 69857 08703 46640 40846 72308 26844 52071 39790 49856 42583 73496 58963 38194 22564 82529 000 000	USB	(AB)
E07	10264	16-4	0620	Sun	024 1 310 18 65928 90935 33261 69857 08703 46640 40846 72308 26844 52071 39790 49856 42583 73496 58963 38194 22564 82529 000 000	USB	(AB)
E07	11464	16-4	0640	Sun	024 1 310 18 65928 90935 33261 69857 08703 46640 40846 72308 26844 52071 39790 49856 42583 73496 58963 38194 22564 82529 000 000	USB	(AB)
E07	14603	16-4	1700	Sun	641 641 641 000	AM	(AB/MPJ)
E07	13403	16-4	1720	Sun	641 641 641 000	AM	(AB)
E07	15819	17-4	1900	Mon	842 842 842 000	USB	(MPJ)

E07	14419	17-4	1920	Mon	842 842 842 000	USB	(MPJ/RL)
E07	20574	18-4	1100	Tue	504 1 861 117 61839 68622 04148 ... 61006 22684 01683 000 000	USB	(AB)
E07	19074	18-4	1120	Tue	504 1 861 117 61839 68622 04148 ... 61006 22684 01683 000 000	USB	(AB)
E07	17474	18-4	1140	Tue	504 1 861 117 61839 68622 04148 ... 61006 22684 01683 000 000	USB	(AB/MPJ-HOL)
E07	14603	19-4	1700	Wed	641 641 641 000	AM	(AB/MPJ)
E07	13403	19-4	1720	Wed	641 641 641 000	AM	(AB/MPJ)
E07	15819	19-4	1900	Wed	842 842 842 000	USB	(AB)
E07	14419	19-4	1920	Wed	842 842 842 000	USB	(AB/MPJ)
E07	7526	20-4	2030	Thu	358 358 358 000	AM	(AB)
E07	20574	21-4	1100	Fri	504 1 861 117 61839 68622 04148 ... 61006 22684 01683 000 000	USB	(AB-NZL)
E07	19074	21-4	1120	Fri	504 1 861 117 61839 68622 04148 ... 61006 22684 01683 000 000	USB	(AB-NZL/MPJ)
E07	17474	21-4	1140	Fri	504 1 861 117 61839 68622 04148 ... 61006 22684 01683 000 000	USB	(AB-NZL/MPJ)
E07	9064	22-4	0600	Sat	024 024 024 000	USB	(AB/ES/BvR)
E07	10264	22-4	0620	Sat	024 024 024 000	USB	(AB/ES/BvR)
E07	9064	23-4	0600	Sun	024 024 024 000	USB	(AB/BvR)
E07	10264	23-4	0620	Sun	024 024 024 000	USB	(AB/BvR)
E07	14603	23-4	1700	Sun	641 641 641 000	AM	(AB/MPJ)
E07	13403	23-4	1720	Sun	641 641 641 000	AM	(AB/MPJ)
E07	15819	24-4	1900	Mon	842 842 842 000	USB	(AB)
E07	14419	24-4	1920	Mon	842 842 842 000	USB	(AB)
E07	20574	25-4	1100	Tue	504 504 504 000	USB	(AB-RUS/ES-RUS)
E07	19074	25-4	1120	Tue	504 504 504 000	USB	(AB-RUS)
E07	14603	26-4	1700	Wed	641 641 641 000	AM	(AB/MPJ)
E07	13403	26-4	1720	Wed	641 641 641 000	AM	(AB/MPJ)
E07	15819	26-4	1900	Wed	842 842 842 000	USB	(AB/MPJ)
E07	14419	26-4	1920	Wed	842 842 842 000	USB	(AB/MPJ)
E07	7526	27-4	2030	Thu	358 358 358 000	AM	(AB)
E07	10574	28-4	1120	Fri	504 504 504 000	USB	(ES-RUS)
E07	19074	28-4	1120	Fri	504 504 504 000	USB	(AB-RUS/ES-RUS)
E07	9064	29-4	0600	Sat	024 024 024 000	USB	(AB/ES)
E07	10264	29-4	0620	Sat	024 024 024 000	USB	(AB/ES)
E07	9064	30-4	0600	Sun	024 024 024 000	USB	(AB)
E07	10264	30-4	0620	Sun	024 024 024 000	USB	(AB)
E07	14603	30-4	1700	Sun	641 641 641 000	AM	(AB/MPJ)
E07	13403	30-4	1720	Sun	641 641 641 000	AM	(AB/MPJ)
E07a	12218	1-4	0800	Sat	244 244 244 000	USB	(AB/HFD)
E07a	13418	1-4	0820	Sat	244 244 244 000	USB	(AB/HFD)
E07a	8144	5-4	2000	Wed	197 197 197 000	USB	(AB/MPJ)
E07a	6944	5-4	2020	Wed	197 197 197 000	USB	(AB)
E07a	6788	6-4	0430	Thu	741 741 741 000	USB	(ES/HFD)
E07a	7488	6-4	0450	Thu	741 741 741 000	USB	(ES/HFD)
E07a	12174	7-4	1510	Fri	102 102 102 000	USB	(AB/MPJ/HFD)
E07a	11074	7-4	1530	Fri	102 102 102 000	USB	(AB/HFD)
E07a	12218	8-4	0800	Sat	244 244 244 000	USB	(AB)
E07a	13418	8-4	0820	Sat	244 244 244 000	USB	(AB/ES/HFD)
E07a	8144	12-4	2000	Wed	197 197 197 000	USB	(AB/MPJ/HFD)
E07a	6944	12-4	2020	Wed	197 197 197 000	USB	(AB/RL/HFD)
E07a	6788	13-4	0430	Thu	741 741 741 000	USB	(ES)
E07a	7488	13-4	0450	Thu	741 741 741 000	USB	(ES)
E07a	12174	14-4	1510	Fri	102 102 102 000	USB	(AB/MPJ)
E07a	11074	14-4	1530	Fri	102 102 102 000	USB	(AB/MPJ)
E07a	12218	15-4	0800	Sat	244 244 244 000	USB	(AB/ES)
E07a	13418	15-4	0820	Sat	244 244 244 000	USB	(AB/ES)
E07a	8144	19-4	2000	Wed	197 197 197 000	USB	(AB)
E07a	6944	19-4	2020	Wed	197 197 197 000	USB	(AB)
E07a	6788	20-4	0430	Thu	741 741 741 000	USB	(AB/ES)
E07a	7488	20-4	0450	Thu	741 741 741 000	USB	(AB/ES)
E07a	12174	21-4	1510	Fri	102 102 102 000	USB	(AB)
E07a	11074	21-4	1530	Fri	102 102 102 000	USB	(AB/MPJ)
E07a	12218	22-4	0800	Sat	244 244 244 000	USB	(AB/ES)
E07a	13418	22-4	0820	Sat	244 244 244 000	USB	(AB/ES/BvR)

E07a	8144	26-4	2000	Wed	197 1 33420 928 49 82616 15473 00498 ... 80388 83504 80775 000 000	USB	(AB/MPJ)
E07a	6944	26-4	2020	Wed	197 1 33420 928 49 82616 15473 00498 ... 80388 83504 80775 000 000	USB	(AB)
E07a	5744	26-4	2040	Wed	197 1 33420 928 49 82616 15473 00498 ... 80388 83504 80775 000 000	USB	(AB)
E07a	6788	27-4	0430	Thu	741 1 33420 928 49 82616 15473 00498 ... 80388 83504 80775 000 000	USB	(AB/ES)
E07a	7488	27-4	0450	Thu	741 1 33420 928 49 82616 15473 00498 ... 80388 83504 80775 000 000	USB	(AB/ES)
E07a	8188	27-4	0510	Thu	741 1 33420 928 49 82616 15473 00498 ... 80388 83504 80775 000 000	USB	(AB/ES)
E07a	12174	28-4	1510	Fri	102 102 102 000	USB	(AB/MPJ)
E07a	11074	28-4	1530	Fri	102 102 102 000	USB	(AB/MPJ)
E07a	12218	29-4	0800	Sat	244 244 244 000	USB	(AB/ES)
E07a	13418	29-4	0820	Sat	244 244 244 000	USB	(AB/ES)
E11	14769	1-4	0710	Sat	491/00	USB	(AB)
E11	10302	1-4	1300	Sat	583/00	USB	(AB/MPJ)
E11	13046	1-4	1345	Sat	919/00	USB	(AB/MPJ/ES)
E11	10213	1-4	1705	Sat	390/00	USB	(MPJ)
E11	5844	1-4	1730	Sat	403/00	USB	(AB/MPJ)
E11	8530	1-4	1911	Sat	613/00	USB	(chpa)
E11	8186	1-4	2005	Sat	363/00	USB	(AnEur)
E11	6397	2-4	1605	Sun	231/00	USB	(AB/MPJ)
E11	10448	2-4	1625	Sun	976/00	USB	(MPJ)
E11	13470	2-4	1745	Sun	247/00	USB	(MPJ)
E11	8530	2-4	1910	Sun	618/00	USB	(AnEur)
E11	8186	2-4	2005	Sun	363/00	USB	(MPJ)
E11	12202	3-4	0600	Mon	180/00	USB	(AB-POL)
E11	10213	3-4	0745	Mon	261/00	USB	(AB)
E11	13470	3-4	1745	Mon	245/00	USB	(MPJ)
E11	9963	4-4	0710	Tue	632/00	USB	(AB/HFD)
E11	7840	4-4	1000	Tue	300/00	USB	(AB/ES)
E11	8102	4-4	1045	Tue	577/00	USB	(AB)
E11	9443	4-4	1205	Tue	463/00	USB	(AB)
E11	13046	4-4	1345	Tue	910/00	USB	(AB-POL/MPJ/ES)
E11	6397	4-4	1605	Tue	238/00	USB	(AB/MPJ)
E11	10620	4-4	1925	Tue	523/00	USB	(AB)
E11	7850	5-4	0315	Wed	258/00	USB	(ES)
E11	11450	5-4	0805	Wed	310/00	USB	(AB/ES)
E11	12530	5-4	0820	Wed	131/00	USB	(AB)
E11	9443	5-4	1205	Wed	463/00	USB	(AB)
E11	10448	5-4	1625	Wed	970/00	USB	(AB/MPJ/GHn)
E11	10213	5-4	1705	Wed	395/00	USB	(MPJ)
E11	5844	5-4	1730	Wed	403/00	USB	(AB/MPJ)
E11	6807	6-4	0930	Thu	275/00	USB	(ES)
E11	10302	6-4	1300	Thu	588/00	USB	(AB/ES)
E11	10330	6-4	1530	Thu	266/00	USB	(AB/GHn/MPJ)
E11	10620	6-4	1925	Thu	527/00	USB	(AB-POL)
E11	12202	7-4	0600	Fri	185/00	USB	(AB/ES)
E11	9963	7-4	0710	Fri	630/00	USB	(AB)
E11	7840	7-4	1000	Fri	309/00	USB	(AB/ES)
E11	7377	7-4	2000	Fri	579/00	USB	(AB)
E11	10302	8-4	1300	Sat	585/00	USB	(AB/MPJ/ES)
E11	13046	8-4	1345	Sat	915/00	USB	(MPJ/ES)
E11	10213	8-4	1705	Sat	390/00	USB	(AB/MPJ)
E11	5844	8-4	1730	Sat	406/00	USB	(AB)
E11	11450	9-4	0805	Sun	312/00	USB	(AB)
E11	6397	9-4	1605	Sun	235/00	USB	(AB)
E11	10448	9-4	1625	Sun	974/00	USB	(MPJ)
E11	13470	9-4	1745	Sun	247/00	USB	(MPJ)
E11	7317	10-4	0530	Mon	647/00	USB	(AB)
E11	12202	10-4	0600	Mon	185/00	USB	(AB)
E11	10213	10-4	0745	Mon	268/00	USB	(HFD)
E11	6804	10-4	0820	Mon	432/00	USB	(AB/HFD)
E11	9399	10-4	0900	Mon	538/00	USB	(AB)
E11	20286	10-4	1225	Mon	528/00	USB	(AB)

E11	13470	10-4	1745	Mon	249/00	USB	(AB)
E11	10800	11-4	0645	Tue	512/00	USB	(AB)
E11	9963	11-4	0710	Tue	636/00	USB	(AB)
E11	7840	11-4	1000	Tue	302/00	USB	(AB/MPJ/ES)
E11	8102	11-4	1045	Tue	575/00	USB	(AB/MPJ/ES)
E11	9443	11-4	1205	Tue	462/00	USB	(AB/MPJ/ES)
E11	13046	11-4	1345	Tue	910/00	USB	(AB/GHn/MPJ)
E11	6397	11-4	1605	Tue	236/00	USB	(AB/RL)
E11	8102	12-4	0315	Wed	253/00	USB	(ES)
E11	9399	12-4	0900	Wed	535/00	USB	(AB/ES)
E11	6807	12-4	0930	Wed	275/00	USB	(ES)
E11	9443	12-4	1205	Wed	463/00	USB	(AB/RL)
E11	10213	12-4	1705	Wed	393/00	USB	(AB/MPJ)
E11	5844	12-4	1730	Wed	406/00	USB	(AB)
E11	7317	13-4	0530	Thu	646/00	USB	(AB/ES)
E11	10800	13-4	0645	Thu	510/00	USB	(AB)
E11	14769	13-4	0710	Thu	496/00	USB	(AB-POL)
E11	14575	13-4	0745	Thu	333/00	USB	(AB)
E11	6804	13-4	0820	Thu	430/00	USB	(AB/MPJ)
E11	6807	13-4	0930	Thu	279/00	USB	(AB)
E11	10302	13-4	1300	Thu	587/00	USB	(AB)
E11	10330	13-4	1530	Thu	260/00	USB	(AB/GHn/MPJ)
E11	10620	13-4	1925	Thu	523/00	USB	(AB/MPJ/ES)
E11	9963	14-4	0710	Fri	635/00	USB	(AB)
E11	7840	14-4	1000	Fri	309/00	USB	(AB)
E11	13873	14-4	1650	Fri	921/00	USB	(AB)
E11	8530	14-4	1910	Fri	614/00	USB	(AB)
E11	7377	14-4	2000	Fri	579/00	USB	(AB/MPJ/RL)
E11	14769	15-4	0710	Sat	495/00	USB	(AB)
E11	10302	15-4	1300	Sat	585/00	USB	(AB/GHn/MPJ)
E11	13046	15-4	1345	Sat	919/00	USB	(AB/MPJ)
E11	10213	15-4	1705	Sat	390/00	USB	(AB/MPJ)
E11	5844	15-4	1730	Sat	400/00	USB	(AB)
E11	8186	15-4	2005	Sat	364/00	USB	(AB)
E11	11450	16-4	0805	Sun	312/00	USB	(AB)
E11	6397	16-4	1605	Sun	233/00	USB	(AB/MPJ)
E11	10448	16-4	1625	Sun	974/00	USB	(AB/MPJ)
E11	13873	16-4	1650	Sun	924/00	USB	(AB-POL/MPJ)
E11	13470	16-4	1745	Sun	246/00	USB	(AB)
E11	8530	16-4	1910	Sun	611/00	USB	(AB/MPJ)
E11	8186	16-4	2005	Sun	360/00	USB	(AB)
E11	7317	17-4	0530	Mon	649/00	USB	(AB)
E11	12202	17-4	0600	Mon	183/00	USB	(AB)
E11	6804	17-4	0820	Mon	436/00	USB	(AB/BvR)
E11	9399	17-4	0900	Mon	534/00	USB	(AB/BvR)
E11	20286	17-4	1225	Mon	522/00	USB	(AB)
E11	10800	18-4	0645	Tue	517/00	USB	(AB)
E11	14575	18-4	0745	Tue	337/00	USB	(AB)
E11	8102	18-4	1045	Tue	573/00	USB	(AB/MPJ)
E11	10620	18-4	1925	Tue	523/00	USB	(AB-POL/MPJ)
E11	9399	19-4	0900	Wed	536/00	USB	(AB/ES)
E11	6807	19-4	0930	Wed	273/00	USB	(AB/ES)
E11	7727	19-4	1205	Wed	463/00	USB	(AB)
E11	10448	19-4	1625	Wed	976/00	USB	(AB)
E11	10213	19-4	1705	Wed	399/00	USB	(MPJ)
E11	7850	20-4	0315	Thu	253/00	USB	(HFD/ES)
E11	10800	20-4	0645	Thu	512/00	USB	(AB-POL)
E11	14769	20-4	0710	Thu	491/00	USB	(AB-POL)
E11	6804	20-4	0820	Thu	432/00	USB	(AB-POL)
E11	6807	20-4	0930	Thu	279/00	USB	(AB-I)
E11	10620	20-4	1925	Thu	527/00	USB	(ES)
E11	12202	21-4	0600	Fri	182/00	USB	(AB-RUS)
E11	13873	21-4	1650	Fri	924/00	USB	(AB)
E11	8530	21-4	1910	Fri	617/00	USB	(AB/MPJ)
E11	7377	21-4	2000	Fri	573/00	USB	(MPJ)
E11	10213	22-4	1705	Sat	394/00	USB	(AB/MPJ)
E11	10213	22-4	1705	Sat	394/00	USB	(AB/MPJ)

E11	10448	23-4	1625	Sun	975/00	USB	(AB/MPJ)
E11	13873	23-4	1650	Sun	920/00	USB	(AB-S)
E11	8530	23-4	1910	Sun	613/00	USB	(MPJ)
E11	8186	23-4	2005	Sun	365/00	USB	(AB)
E11	7317	24-4	0530	Mon	641/00	USB	(AB)
E11	6804	24-4	0820	Mon	438/00	USB	(AB)
E11	9399	24-4	0900	Mon	532/00	USB	(AB)
E11	13470	24-4	1745	Mon	240/00	USB	(AB)
E11	10800	25-4	0645	Tue	515/00	USB	(AB/ES)
E11	9963	25-4	0710	Tue	639/00	USB	(AB)
E11	7840	25-4	1000	Tue	309/00	USB	(AB/ES)
E11	13046	25-4	1345	Tue	914/00	USB	(MPJ)
E11	6397	25-4	1605	Tue	230/00	USB	(AB/MPJ)
E11	7850	26-4	0315	Wed	250/00	USB	(ES)
E11	9399	26-4	0900	Wed	537/00	USB	(AB/ES)
E11	5844	26-4	1730	Wed	409/00	USB	(MPJ)
E11	7317	27-4	0530	Thu	644/00	USB	(AB/ES)
E11	10800	27-4	0645	Thu	510/00	USB	(AB-POL)
E11	5804	27-4	0820	Thu	438/00	USB	(AB/ES)
E11	10302	27-4	1300	Thu	581/00	USB	(AB/MPJ)
E11	10330	27-4	1530	Thu	266/00	USB	(AB/MPJ/PW2)
E11	9963	28-4	0710	Fri	631/00	USB	(AB/ES)
E11	7840	28-4	1000	Fri	300/00	USB	(AB)
E11	20286	28-4	1225	Fri	522/00	USB	(AB-POL/ES)
E11	13873	28-4	1650	Fri	929/00	USB	(AB)
E11	8530	28-4	1910	Fri	616/00	USB	(AB/MPJ)
E11	10302	29-4	1300	Sat	588/00	USB	(MPJ/ES)
E11	13046	29-4	1345	Sat	918/00	USB	(AB/MPJ/ES)
E11	5844	29-4	1730	Sat	405/00	USB	(AB/MPJ)
E11	8186	29-4	2005	Sat	366/00	USB	(AB/MPJ)
E11	6397	30-4	1605	Sun	237/00	USB	(AB/MPJ)
E11	13873	30-4	1650	Sun	922/00	USB	(MPJ)
E11	13470	30-4	1745	Sun	244/00	USB	(MPJ)
E11	8530	30-4	1910	Sun	618/00	USB	(AB/MPJ)
E11	8186	30-4	2005	Sun	364/00	USB	(AB)
E11a	7317	3-4	0530	Mon	641/35 Attention 96189 56117 12114 ... 20755 29194 06161 Attention, rpt msg, out	USB	(AB)
E11a	6804	3-4	0820	Mon	431/32 Attention 23948 67612 16782 ... 28992 85136 36045 Attention, rpt msg, out	USB	(AB)
E11a	9399	3-4	0900	Mon	530/37 Attention 01945 81522 60749 ... 03646 33202 01621 Attention, rpt msg, out	USB	(AB)
E11a	20286	3-4	1225	Mon	520/30 Attention 21034 09044 96741 ... 99197 03443 05982 Attention, rpt msg, out	USB	(AB)
E11a	10800	4-4	0645	Tue	512/40 Attention 55792 54215 84719 ... 13769 77361 09446 Attention, rpt msg, out	USB	(AB/ES)
E11a	14575	4-4	0745	Tue	334/36 Attention 70590 77011 98101 ... 91198 72158 80633 Attention, rpt msg, out	USB	(AB)
E11a	9399	5-4	0900	Wed	530/37 Attention 01945 81522 60749 ... 03646 33202 01621 Attention, rpt msg, out	USB	(AB)
E11a	7317	6-4	0530	Thu	641/35 Attention 96189 56117 12114 ... 20755 29194 06161 Attention, rpt msg, out	USB	(AB/ES)
E11a	10800	6-4	0645	Thu	512/40 Attention 55792 54215 84719 ... 13769 77361 09446 Attention, rpt msg, out	USB	(AB)
E11a	14769	6-4	0710	Thu	497/32 Attention 11476 85166 23168 ... 00413 62216 14185 Attention, rpt msg, out	USB	(AB-POL)
E11a	14575	6-4	0745	Thu	334/36 Attention 70590 77011 98101 ... 91198 72158 80633 Attention, rpt msg, out	USB	(AB)
E11a	6804	6-4	0820	Thu	431/32 Attention 23948 67612 16782 ... 28992 85136 36045 Attention, rpt msg, out	USB	(AB/ES)
E11a	20286	7-4	1225	Fri	520/30 ATTENTION 21034 09044 à... 03443 05982 OUT	USB	(ES)
E11a	14769	8-4	0710	Sat	497/32 Attention 11476 85166 23168 ... 00413 62216 14185 Attention, rpt msg, out	USB	(AB)
E11a	8186	8-4	2005	Sat	367/33 Attention 41576 21163 96052 ... 80123 35147 68406 Attention, rpt msg, out	USB	(AB)
E11a	13873	9-4	1650	Sun	924/39 Attention 61596 19680 32790 ... 05370 37192 35834 Attention, rpt msg, out	USB	(AB/MPJ)

E11a	8530	9-4	1910	Sun	613/38 Attention 20671 59350 81300 15512 91741 ... 08663 71160 95576 92369 95911	USB	(MPJ)
E11a	8186	9-4	2005	Sun	367/33 Attention ...	USB	(AnEur)
E11a	12530	12-4	0820	Wed	131/34 Attention 98289 46065 41453 ... 01347 13239 80139 Attention, rpt msg, out	USB	(AB)
E11a	10213	17-4	0745	Mon	268/35 Attention 14011 28334 31768 ... 71302 86874 06583 Attention, rpt msg, out. Sends only 33 groups vs the announced 35	USB	(AB/BvR)
E11a	13470	17-4	1745	Mon	248/31 Attention 06195 77773 80389 ... 23032 93657 89856 Attention, rpt msg, out	USB	(AB-I)
E11a	9963	18-4	0710	Tue	636/34 Attention 69190 37902 16466 ... 08869 10129 54391 Attention, rpt msg, out	USB	(AB)
E11a	7840	18-4	1000	Tue	305/25 Attention 04083 62361 40271 ... 70593 15727 82182 Attention, rpt msg, out	USB	(AB/MPJ/ES)
E11a	13046	18-4	1345	Tue	912/39 Attention 20968 77116 44480 ... 74516 09049 87961 Attention, rpt msg, out	USB	(AB-POL/MPJ)
E11a	6397	18-4	1605	Tue	236/32 Attention 28787 98841 80907 ... 10985 48591 98884 Attention, rpt msg, out	USB	(AB)
E11a	5844	19-4	1730	Wed	408/40 Attention 27704 73938 25261 ... 12054 72592 68421 Attention, rpt msg, out	USB	(AB/MPJ)
E11a	10302	20-4	1300	Thu	588/37 Attention 80007 40240 93991 47488 15646 ... 95279 13988 91608 03770 35107	USB	(MPJ)
E11a	9963	21-4	0710	Fri	636/34 Attention 69190 37902 16466 ... 08869 10129 54391 Attention, rpt msg, out	USB	(AB)
E11a	7840	21-4	1000	Fri	305/25 Attention 04083 62361 40271 ... 70593 15727 82182 Attention, rpt msg, out	USB	(MPJ)
E11a	10302	22-4	1300	Sat	588/37 Attention 80007 40240 93991 47488 15646 ... 95279 13988 91608 03770 35107	USB	(MPJ/ES/BvR)
E11a	13046	22-4	1345	Sat	912/39 Attention 20968 77116 44480 ... 74516 09049 87961 Attention, rpt msg, out	USB	(MPJ)
E11a	5844	22-4	1730	Sat	408/40 Attention 27704 73938 25261 ... 12054 72592 68421 Attention, rpt msg, out	USB	(AB)
E11a	6397	23-4	1605	Sun	236/32 Attention 28787 98841 80907 ... 10985 48591 98884 Attention, rpt msg, out	USB	(AB)
E11a	13470	23-4	1745	Sun	248/31 Attention 06195 77773 80389 ... 23032 93657 89856 Attention, rpt msg, out	USB	(AB/MPJ)
E11a	12202	24-4	0600	Mon	181/33 Attention 51477 48654 18596 ... 44671 47748 64137 Attention, rpt msg, out	USB	(AB)
E11a	8102	25-4	1045	Tue	579/35 Attention 06234 34316 86058 ... 10546 07643 88530 Attention, rpt msg, out	USB	(AB/MPJ)
E11a	7727	25-4	1205	Tue	465/31 Attention 10266 48718 15400 ... 62294 07245 99863 Attention, rpt msg, out	USB	(AB)
E11a	10620	25-4	1925	Tue	522/34 Attention 07852 55403 30506 61438 41603 ... 12460 96875 73914 25789 67814	USB	(MPJ)
E11a	6807	26-4	0930	Wed	273/35 Attention 44779 73524 73702 ... 99720 49309 08091 Attention, rpt msg, out	USB	(AB/ES)
E11a	7727	26-4	1205	Wed	465/31 Attention 10266 48718 15400 ... 62294 07245 99863 Attention, rpt msg, out	USB	(AB/ES)
E11a	10448	26-4	1625	Wed	978/35 Attention 84420 87992 64589 ... 33555 32964 34409 Attention, rpt msg, out	USB	(AB/MPJ)
E11a	10213	26-4	1705	Wed	392/37 Attention 27386 77697 60283 ... 13904 36288 76711 Attention, rpt msg, out	USB	(AB/MPJ)
E11a	6807	27-4	0930	Thu	273/35 Attention 44779 73524 73702 ... 99720 49309 08091 Attention, rpt msg, out	USB	(AB/ES)
E11a	12202	28-4	0600	Fri	181/33 Attention 51477 48654 18596 ... 44671 47748 64137 Attention, rpt msg, out	USB	(AB-POL)
E11a	7377	28-4	2000	Fri	579/35 Attention 06234 34316 86058 ... 10546 07643 88530 Attention, rpt msg, out	USB	(AB/MPJ/GHn)
E11a	10448	30-4	1625	Sun	978/35 Attention 84420 87992 64589 78397 69146 ... 02839 07764 33555 32964 34409	USB	(MPJ)
E17z	14260	6-4	0800	Thu	674 980 5 88620 58069 61732 47537 54470 980 5 00000	USB	(AB/ES)
E17z	12930	6-4	0810	Thu	674 980 5 88620 58069 61732 47537 54470 980 5 00000	USB	(AB/MPJ/ES)
E17z	14260	13-4	0800	Thu	674 980 5 88620 58069 61732 47537 54470 980 5 00000	USB	(AB)
E17z	12930	13-4	0810	Thu	674 980 5 88620 58069 61732 47537 54470 980 5 00000	USB	(AB/MPJ)

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E17z	14260	20-4	0800	Thu	674 908 5 28548 59014 32424 75078 97520 908 5 00000	USB	(AB-I/ES-I/MPJ)	
E17z	12930	20-4	0810	Thu	674 908 5 28548 59014 32424 75078 97520 908 5 00000	USB	(AB-I/ES-I)	
E17z	14260	27-4	0800	Thu	674 908 5 28548 59014 32424 75078 97520 908 5 00000	USB	(AB/ES)	
E17z	12930	27-4	0810	Thu	674 908 5 28548 59014 32424 75078 97520 908 5 00000	USB	(AB/ES)	
E25	6140	4-4	0745	Tue	250 Message 2642 6080 8410 4416 1145 6014 6462 8410 Rebeat 2642 6080 8410 4416 1145 6014 6462 8410 EOM EOT	AM	(ES-ISR)	
E25	6140	11-4	0819	Tue	Windows 7 logon sound. 111	AM	(PW2/ES-ISR)	
E25	6140	11-4	0900	Tue	Windows 7 logon sound. 111 Message 1213 1310 1011 ... Rebeat 1213 1310 1011 ... EOM EOT	AM	(PW2/ES-ISR)	
E25	6140	11-4	0915	Tue	Windows sounds. 950 Message 1001 7543 6410 ... Rebeat 1001 7543 6410 ... EOM EOT Windows 7 shutdown sound	AM	(PW2/ES-ISR)	
E25	6140	12-4	0945	Wed	350 Message 6273 6530 1001 2350 5460 6551 0703 1209 9876 6530 Rebeat 6273 6530 1001 2350 5460 6551 0703 1209 9876 6530 EOM EOT	AM	(ES-ISR/PW3)	
EGY	16223. 7	5-4	1302	Wed	Egyptian Embassy, Havana hex off-line crypto and ATU-80 tfc to MFA Cairo	SITOR-A 100/170	(MCO)	
EGY	13416. 7	29-4	0817	Sat	Egyptian diplo i.p. Ends with QRVF XBVF EJVF YKZK GQFY 55341 +? KY	SITOR-A 100/170	(AB)	
F01	14517	1-4	1810	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/Danix)	
F01	12196	1-4	1820	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/Danix)	
F01	10413	1-4	1830	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/Danix)	
F01	12194	5-4	1840	Wed	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/Danix/RL/MPJ)	
F01	10581	5-4	1850	Wed	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/Danix/RL/MPJ)	
F01	8112	5-4	1900	Wed	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/Danix/MPJ)	
F01	14517	8-4	1810	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/Danix/HFD)	
F01	12196	8-4	1820	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/Danix/HFD)	
F01	10413	8-4	1830	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/Danix/HFD)	
F01	14517	15-4	1810	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/Danix)	
F01	12196	15-4	1820	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/Danix)	
F01	10413	15-4	1830	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/Danix)	
F01	14517	22-4	1810	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/Danix)	
F01	12196	22-4	1820	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/Danix)	
F01	10413	22-4	1830	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/Danix)	
F01	14517	29-4	1810	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/Danix/MPJ)	
F01	12196	29-4	1820	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/Danix/MPJ)	
F01	10413	29-4	1830	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/Danix/MPJ)	
F06	17437	1-4	1100	Sat	Russian diplo/intel. Link ID 36882, Date 31st, Serial #90, Groups 300	FSK 200/1000	(AB/Danix)	
F06	15626	1-4	1110	Sat	Russian diplo/intel. Link ID 36882, Date 31st, Serial #90, Groups 300	FSK 200/1000	(AB/Danix)	
F06	13464	1-4	1120	Sat	Russian diplo/intel. Link ID 36882, Date 31st, Serial #90, Groups 300	FSK 200/1000	(AB/Danix)	
F06	20386	1-4	2100	Sat	Russian diplo/intel. Link ID 32821, Null message	FSK 200/1000	(Danix)	
F06	18509	1-4	2110	Sat	Russian diplo/intel. Link ID 32821, Null message	FSK 200/1000	(Danix)	
F06	16231	1-4	2120	Sat	Russian diplo/intel. Link ID 32821, Null message	FSK 200/1000	(Danix)	
F06	17437	2-4	1100	Sun	Russian diplo/intel. Link ID 36882, Date 31st, Serial #90, Groups 300	FSK 200/1000	(AB/Danix/MPJ)	
F06	15626	2-4	1110	Sun	Russian diplo/intel. Link ID 36882, Date 31st, Serial #90, Groups 300	FSK 200/1000	(AB/Danix/MPJ)	
F06	13464	2-4	1120	Sun	Russian diplo/intel. Link ID 36882, Date 31st, Serial #90, Groups 300	FSK 200/1000	(AB/Danix/MPJ)	
F06	18626	2-4	1530	Sun	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(Danix)	
F06	16325	2-4	1540	Sun	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(Danix)	
F06	13458	2-4	1550	Sun	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(Danix)	
F06	8184	3-4	0410	Mon	Russian diplo/intel. Null msg on link 45079	FSK 200/1000	(AB/Danix)	
F06	6773	3-4	0420	Mon	Russian diplo/intel. Null msg on link 45079	FSK 200/1000	(AB/Danix)	
F06	15626	4-4	1510	Tue	Russian diplo/intel. Null message on link 16404	FSK 200/1000	(Danix)	
F06	12214	4-4	1520	Tue	Russian diplo/intel. Null message on link 16404	FSK 200/1000	(Danix)	
F06	18726	4-4	1650	Tue	Russian diplo/intel. Null message on link 20501	FSK 200/1000	(Danix)	
F06	16238	4-4	1700	Tue	Russian diplo/intel. Null message on link 20501	FSK 200/1000	(Danix)	

F06	13378	4-4	1710	Tue	Russian diplo/intel. Null message on link 20501	FSK 200/1000	(Danix)
F06	16325	5-4	0600	Wed	Russian diplo/intel. Link ID 32817, Date 1st, Serial #13, Groups 328	FSK 200/1000	(AB-J/Danix-J)
F06	14724	5-4	0610	Wed	Russian diplo/intel. Link ID 32817, Date 1st, Serial #13, Groups 328	FSK 200/1000	(AB-J/Danix-J)
F06	12172	5-4	0620	Wed	Russian diplo/intel. Link ID 32817, Date 1st, Serial #13, Groups 328	FSK 200/1000	(AB-J/Danix-J)
F06	14367	5-4	0810	Wed	Russian diplo/intel. Null msg on link 45075	FSK 200/1000	(AB)
F06	12208	5-4	0820	Wed	Russian diplo/intel. Null msg on link 45075	FSK 200/1000	(AB)
F06	18476	5-4	1230	Wed	Russian diplo/intel. Null msg on link 53277	FSK 200/1000	(AB/Danix/RL)
F06	16168	5-4	1240	Wed	Russian diplo/intel. Null msg on link 53277	FSK 200/1000	(AB/Danix)
F06	16168	5-4	1242	Wed	Russian diplo/intel. 11166 90073 52369 05001 00049 00000	FSK 200/1000	(MCO)
F06	14643	5-4	1250	Wed	Russian diplo/intel. Null msg on link 53277	FSK 200/1000	(AB/Danix/MPJ)
F06	14643	5-4	1256	Wed	Russian diplo/intel. 11166 90073 52369 05001 00049 00000	FSK 200/1000	(MCO)
F06	16325	6-4	0600	Thu	Russian diplo/intel. Link ID 32817, Date 1st, Serial #13, Groups 328	FSK 200/1000	(AB-J/Danix-J)
F06	14724	6-4	0610	Thu	Russian diplo/intel. Link ID 32817, Date 1st, Serial #13, Groups 328	FSK 200/1000	(AB-J/Danix-J)
F06	12172	6-4	0620	Thu	Russian diplo/intel. Link ID 32817, Date 1st, Serial #13, Groups 328	FSK 200/1000	(AB-J/Danix-J)
F06	16351	6-4	1330	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB/Danix)
F06	14367	6-4	1340	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB/Danix)
F06	11483	6-4	1350	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB/Danix)
F06	13466	8-4	0800	Sat	Russian diplo/intel. Message on link 45114	FSK 200/1000	(AB/Danix)
F06	11543	8-4	0810	Sat	Russian diplo/intel. Message on link 45114	FSK 200/1000	(AB/Danix)
F06	9328	8-4	0820	Sat	Russian diplo/intel. Message on link 45114	FSK 200/1000	(AB/Danix)
F06	17481	8-4	0900	Sat	Russian diplo/intel. Message on link 45057	FSK 200/1000	(AB/Danix)
F06	15946	8-4	0910	Sat	Russian diplo/intel. Message on link 45057	FSK 200/1000	(AB/Danix)
F06	13543	8-4	0920	Sat	Russian diplo/intel. Message on link 45057	FSK 200/1000	(AB/Danix)
F06	17437	8-4	1100	Sat	Russian diplo/intel. Message on link 36882	FSK 200/1000	(AB-RUS/Danix)
F06	15626	8-4	1110	Sat	Russian diplo/intel. Message on link 36882	FSK 200/1000	(AB/Danix/MPJ)
F06	13464	8-4	1120	Sat	Russian diplo/intel. Message on link 36882	FSK 200/1000	(AB/Danix/MPJ)
F06	20386	8-4	2100	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(AB-RUS/Danix)
F06	18509	8-4	2110	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(AB-RUS/Danix)
F06	16231	8-4	2120	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(AB-RUS/Danix)
F06	13466	9-4	0800	Sun	Russian diplo/intel. Message on link 45114	FSK 200/1000	(AB/Danix)
F06	11543	9-4	0810	Sun	Russian diplo/intel. Message on link 45114	FSK 200/1000	(AB/Danix)
F06	9328	9-4	0820	Sun	Russian diplo/intel. Message on link 45114	FSK 200/1000	(AB/Danix)
F06	17481	9-4	0900	Sun	Russian diplo/intel. Message on link 45057	FSK 200/1000	(AB/Danix)
F06	15946	9-4	0910	Sun	Russian diplo/intel. Message on link 45057	FSK 200/1000	(AB/Danix)
F06	13543	9-4	0920	Sun	Russian diplo/intel. Message on link 45057	FSK 200/1000	(AB/Danix)
F06	17437	9-4	1100	Sun	Russian diplo/intel. Message on link 36882	FSK 200/1000	(AB-RUS/Danix)
F06	15626	9-4	1110	Sun	Russian diplo/intel. Message on link 36882	FSK 200/1000	(AB/Danix/MPJ)
F06	13464	9-4	1120	Sun	Russian diplo/intel. Message on link 36882	FSK 200/1000	(AB/Danix/MPJ)
F06	18626	9-4	1530	Sun	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB-I/Danix)
F06	16325	9-4	1540	Sun	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB-RUS/Danix)
F06	13458	9-4	1550	Sun	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB-RUS/Danix/MPJ)
F06	17534	11-4	1500	Tue	Russian diplo/intel. Null message on link 16405	FSK 200/1000	(AB/Danix)
F06	15626	11-4	1510	Tue	Russian diplo/intel. Null message on link 16405	FSK 200/1000	(AB/Danix)
F06	12214	11-4	1520	Tue	Russian diplo/intel. Null message on link 16405	FSK 200/1000	(AB/Danix/MPJ)
F06	18726	11-4	1650	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix)
F06	16238	11-4	1700	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix)
F06	13378	11-4	1710	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix)
F06	16325	12-4	0600	Wed	Russian diplo/intel. Message on link ID 32817	FSK 200/1000	(AB-J)
F06	14724	12-4	0610	Wed	Russian diplo/intel. Message on link ID 32817	FSK 200/1000	(AB-NZL)
F06	12172	12-4	0620	Wed	Russian diplo/intel. Message on link ID 32817	FSK 200/1000	(AB-NZL)
F06	16064	12-4	0800	Wed	Russian diplo/intel. Null message on link 45075	FSK 200/1000	(AB/Danix)
F06	19138	12-4	0800	Wed	Russian diplo/intel. Msg on link 16405	FSK 200/1000	(AB-RUS/Danix)
F06	14367	12-4	0810	Wed	Russian diplo/intel. Null message on link 45075	FSK 200/1000	(AB/Danix)
F06	17545	12-4	0810	Wed	Russian diplo/intel. Msg on link 16405	FSK 200/1000	(AB-RUS/Danix)
F06	12208	12-4	0820	Wed	Russian diplo/intel. Null message on link 45075	FSK 200/1000	(AB/Danix)
F06	15626	12-4	0820	Wed	Russian diplo/intel. Msg on link 16405	FSK 200/1000	(AB-RUS/Danix)
F06	17538	12-4	0915	Wed	Russian diplo/intel. Null message on link 20492	FSK 200/1000	(AB/Danix)
F06	14576	12-4	0925	Wed	Russian diplo/intel. Null message on link 20492	FSK 200/1000	(AB/Danix)

F06	11639	12-4	0935	Wed	Russian diplo/intel. Null message on link 20492	FSK 200/1000	(AB/Danix)
F06	13983	12-4	2200	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(Danix-RUS)
F06	12209	12-4	2210	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(Danix-RUS)
F06	10203	12-4	2220	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(Danix-RUS)
F06	16325	13-4	0600	Thu	Russian diplo/intel. Message on link ID 32817	FSK 200/1000	(AB-NZL)
F06	14724	13-4	0610	Thu	Russian diplo/intel. Message on link ID 32817	FSK 200/1000	(AB-NZL)
F06	12172	13-4	0620	Thu	Russian diplo/intel. Message on link ID 32817	FSK 200/1000	(AB-NZL)
F06	19138	13-4	0800	Thu	Russian diplo/intel. Msg on link 16405	FSK 200/1000	(Danix)
F06	17545	13-4	0810	Thu	Russian diplo/intel. Msg on link 16405	FSK 200/1000	(Danix)
F06	15626	13-4	0820	Thu	Russian diplo/intel. Msg on link 16405	FSK 200/1000	(Danix)
F06	16351	13-4	1330	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB/Danix/MPJ)
F06	14367	13-4	1340	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB/Danix)
F06	11483	13-4	1350	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB/Danix)
F06	20386	15-4	2100	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(AB-RUS/Danix-RUS)
F06	18509	15-4	2110	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(AB-RUS/Danix-RUS)
F06	16231	15-4	2120	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(AB-RUS/Danix-RUS)
F06	18626	16-4	1530	Sun	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB-RUS/Danix)
F06	16325	16-4	1540	Sun	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB-RUS/Danix/MPJ)
F06	13458	16-4	1550	Sun	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB-RUS/Danix/MPJ)
F06	10686	17-4	0400	Mon	Russian diplo/intel. Null msg on link 45079	FSK 200/1000	(Danix)
F06	8184	17-4	0410	Mon	Russian diplo/intel. Null msg on link 45079	FSK 200/1000	(Danix)
F06	6773	17-4	0420	Mon	Russian diplo/intel. Null msg on link 45079	FSK 200/1000	(Danix)
F06	17534	18-4	1500	Tue	Russian diplo/intel. Null message on link 16405	FSK 200/1000	(AB/Danix)
F06	15626	18-4	1510	Tue	Russian diplo/intel. Null message on link 16405	FSK 200/1000	(AB/Danix)
F06	12214	18-4	1520	Tue	Russian diplo/intel. Null message on link 16405	FSK 200/1000	(AB/Danix/MPJ)
F06	18726	18-4	1650	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix)
F06	16238	18-4	1700	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix)
F06	13378	18-4	1710	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix/MPJ)
F06	16325	19-4	0600	Wed	Russian diplo/intel. Null msg on link ID 32817	FSK 200/1000	(AB-J)
F06	14724	19-4	0610	Wed	Russian diplo/intel. Null msg on link ID 32817	FSK 200/1000	(AB-J)
F06	12172	19-4	0620	Wed	Russian diplo/intel. Null msg on link ID 32817	FSK 200/1000	(AB-J)
F06	16064	19-4	0800	Wed	Russian diplo/intel. Null message on link 45075	FSK 200/1000	(AB/Danix)
F06	14367	19-4	0810	Wed	Russian diplo/intel. Null message on link 45075	FSK 200/1000	(AB/Danix)
F06	12208	19-4	0820	Wed	Russian diplo/intel. Null message on link 45075	FSK 200/1000	(AB/Danix)
F06	18476	19-4	1230	Wed	Russian diplo/intel. Null message on link 53277	FSK 200/1000	(AB/Danix)
F06	16168	19-4	1240	Wed	Russian diplo/intel. Null message on link 53277	FSK 200/1000	(AB/Danix/MPJ)
F06	14643	19-4	1250	Wed	Russian diplo/intel. Null message on link 53277	FSK 200/1000	(AB/Danix/MPJ)
F06	16351	20-4	1330	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB/Danix/MPJ)
F06	14367	20-4	1340	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB/Danix/MPJ)
F06	11483	20-4	1350	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB/Danix/MPJ)
F06	13466	22-4	0800	Sat	Russian diplo/intel. Link ID 45115, Date 21st, Serial #55, Groups 272	FSK 200/1000	(AB/Danix)
F06	11543	22-4	0810	Sat	Russian diplo/intel. Link ID 45115, Date 21st, Serial #55, Groups 272	FSK 200/1000	(AB/Danix)
F06	9328	22-4	0820	Sat	Russian diplo/intel. Link ID 45115, Date 21st, Serial #55, Groups 272	FSK 200/1000	(AB/Danix/BvR)
F06	17481	22-4	0900	Sat	Russian diplo/intel. Link ID 45057, Date 7th, Serial #94, Groups 188	FSK 200/1000	(AB-RUS/Danix)
F06	15946	22-4	0910	Sat	Russian diplo/intel. Link ID 45057, Date 7th, Serial #94, Groups 188	FSK 200/1000	(AB/Danix)
F06	13543	22-4	0920	Sat	Russian diplo/intel. Link ID 45057, Date 7th, Serial #94, Groups 188	FSK 200/1000	(AB/Danix)
F06	17437	22-4	1100	Sat	Russian diplo/intel. Link ID 36882, Date 21st, Serial #92, Groups 114	FSK 200/1000	(Danix)
F06	15626	22-4	1110	Sat	Russian diplo/intel. Link ID 36882, Date 21st, Serial #92, Groups 114	FSK 200/1000	(Danix/MPJ)
F06	13464	22-4	1120	Sat	Russian diplo/intel. Link ID 36882, Date 21st, Serial #92, Groups 114	FSK 200/1000	(Danix/MPJ)
F06	20386	22-4	2100	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(Danix-RUS)
F06	18509	22-4	2110	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(Danix-RUS)
F06	16231	22-4	2120	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(Danix-RUS)
F06	13466	23-4	0800	Sun	Russian diplo/intel. Link ID 45115, Date 21st, Serial	FSK 200/1000	(AB/Danix)

					#55, Groups 272		
F06	11543	23-4	0810	Sun	Russian diplo/intel. Link ID 45115, Date 21st, Serial #55, Groups 272	FSK 200/1000	(AB/Danix)
F06	9328	23-4	0820	Sun	Russian diplo/intel. Link ID 45115, Date 21st, Serial #55, Groups 272	FSK 200/1000	(AB/Danix/BvR)
F06	17481	23-4	0900	Sun	Russian diplo/intel. Link ID 45057, Date 7th, Serial #94, Groups 188	FSK 200/1000	(AB/Danix)
F06	15946	23-4	0910	Sun	Russian diplo/intel. Link ID 45057, Date 7th, Serial #94, Groups 188	FSK 200/1000	(AB/Danix)
F06	13543	23-4	0920	Sun	Russian diplo/intel. Link ID 45057, Date 7th, Serial #94, Groups 188	FSK 200/1000	(AB/Danix)
F06	17437	23-4	1100	Sun	Russian diplo/intel. Link ID 36882, Date 21st, Serial #92, Groups 114	FSK 200/1000	(AB/Danix)
F06	15626	23-4	1110	Sun	Russian diplo/intel. Link ID 36882, Date 21st, Serial #92, Groups 114	FSK 200/1000	(AB/Danix/BvR)
F06	13464	23-4	1120	Sun	Russian diplo/intel. Link ID 36882, Date 21st, Serial #92, Groups 114	FSK 200/1000	(AB/Danix/BvR)
F06	18626	23-4	1530	Sun	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB-RUS/Danix)
F06	16325	23-4	1540	Sun	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB-RUS/Danix)
F06	13458	23-4	1550	Sun	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB-RUS/Danix)
F06	17534	25-4	1500	Tue	Russian diplo/intel. Null message on link 16405	FSK 200/1000	(AB/Danix)
F06	15626	25-4	1510	Tue	Russian diplo/intel. Null message on link 16405	FSK 200/1000	(AB/Danix)
F06	12214	25-4	1520	Tue	Russian diplo/intel. Null message on link 16405	FSK 200/1000	(AB/Danix/MPJ)
F06	18726	25-4	1650	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB-RUS/Danix)
F06	16238	25-4	1700	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB-RUS/Danix)
F06	13378	25-4	1710	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB-RUS/Danix)
F06	16325	26-4	0600	Wed	Russian diplo/intel. Message on link ID 32816	FSK 200/1000	(AB-J)
F06	14724	26-4	0610	Wed	Russian diplo/intel. Message on link ID 32816	FSK 200/1000	(AB-J)
F06	12172	26-4	0620	Wed	Russian diplo/intel. Message on link ID 32816	FSK 200/1000	(AB-J)
F06	16064	26-4	0800	Wed	Russian diplo/intel. Null message on link 45075	FSK 200/1000	(AB/Danix)
F06	19138	26-4	0800	Wed	Russian diplo/intel. Msg on link 16405	FSK 200/1000	(AB-RUS/Danix)
F06	14367	26-4	0810	Wed	Russian diplo/intel. Null message on link 45075	FSK 200/1000	(AB/Danix)
F06	17545	26-4	0810	Wed	Russian diplo/intel. Msg on link 16405	FSK 200/1000	(AB-RUS/Danix)
F06	12208	26-4	0820	Wed	Russian diplo/intel. Null message on link 45075	FSK 200/1000	(AB/Danix)
F06	15626	26-4	0820	Wed	Russian diplo/intel. Msg on link 16405	FSK 200/1000	(AB-RUS/Danix)
F06	17538	26-4	0915	Wed	Russian diplo/intel. Null message on link 20492	FSK 200/1000	(AB/Danix)
F06	14576	26-4	0925	Wed	Russian diplo/intel. Null message on link 20492	FSK 200/1000	(AB/Danix)
F06	11639	26-4	0935	Wed	Russian diplo/intel. Null message on link 20492	FSK 200/1000	(AB/Danix)
F06	16325	27-4	0600	Thu	Russian diplo/intel. Message on link ID 32816	FSK 200/1000	(AB-J)
F06	14724	27-4	0610	Thu	Russian diplo/intel. Message on link ID 32816	FSK 200/1000	(AB-J)
F06	12172	27-4	0620	Thu	Russian diplo/intel. Message on link ID 32816	FSK 200/1000	(AB-J)
F06	16351	27-4	1330	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB/Danix)
F06	14367	27-4	1340	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB/Danix/MPJ)
F06	11483	27-4	1350	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB/Danix/MPJ)
F06	17437	29-4	1100	Sat	Russian diplo/intel. Link ID 36882, Date 28th, Serial #93, Groups 132	FSK 200/1000	(AB/Danix/MPJ)
F06	15626	29-4	1110	Sat	Russian diplo/intel. Link ID 36882, Date 28th, Serial #93, Groups 132	FSK 200/1000	(AB/Danix/MPJ)
F06	13464	29-4	1120	Sat	Russian diplo/intel. Link ID 36882, Date 28th, Serial #93, Groups 132	FSK 200/1000	(AB/Danix/MPJ)
F06	20386	29-4	2100	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(AB-RUS/Danix-RUS)
F06	18509	29-4	2110	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(AB-RUS/Danix-RUS)
F06	16231	29-4	2120	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(AB-RUS/Danix-RUS)
F06	17437	30-4	1100	Sun	Russian diplo/intel. Link ID 36882, Date 28th, Serial #93, Groups 132	FSK 200/1000	(AB/Danix/MPJ)
F06	15626	30-4	1110	Sun	Russian diplo/intel. Link ID 36882, Date 28th, Serial #93, Groups 132	FSK 200/1000	(AB/Danix)
F06	13464	30-4	1120	Sun	Russian diplo/intel. Link ID 36882, Date 28th, Serial #93, Groups 132	FSK 200/1000	(AB/Danix/MPJ)
F06	18626	30-4	1530	Sun	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix)
F06	16325	30-4	1540	Sun	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix)
F06	13458	30-4	1550	Sun	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix/MPJ)
F11	7371	3-4	0515	Mon	0446 88888 88888 96189 56117 12114 ... 20755 29194 06161 88888 88888 00039 00039	FSK 100/620	(AB)

F11	7371	3-4	0520	Mon	0446 88888 88888 96189 56117 12114 ... 20755 29194 06161 88888 88888 00039 00039	FSK 100/620	(AB)
F11	6906	3-4	0800	Mon	0434 88888 88888 23948 67612 16782 ... 28992 85136 36045 88888 88888 00036 00036	FSK 100/620	(AB)
F11	6906	3-4	0805	Mon	0434 88888 88888 23948 67612 16782 ... 28992 85136 36045 88888 88888 00036 00036	FSK 100/620	(AB)
F11	9339	3-4	0845	Mon	0353 88888 88888 01945 81522 60749 ... 03646 33202 01621 88888 88888 00041 00041	FSK 100/620	(AB)
F11	9339	3-4	0850	Mon	0353 88888 88888 01945 81522 60749 ... 03646 33202 01621 88888 88888 00041 00041	FSK 100/620	(AB)
F11	10728	4-4	0630	Tue	0574 88888 88888 55792 54215 84719 ... 13769 77361 09446 88888 88888 00044 00044	FSK 100/620	(AB)
F11	10728	4-4	0635	Tue	0574 88888 88888 55792 54215 84719 ... 13769 77361 09446 88888 88888 00044 00044	FSK 100/620	(AB)
F11	9052	4-4	0655	Tue	0684 00000	FSK 100/620	(AB)
F11	9052	4-4	0700	Tue	0684 00000	FSK 100/620	(AB)
F11	14753	4-4	0730	Tue	0433 88888 88888 70590 77011 98101 ... 91198 72158 80633 88888 88888 00040 00040	FSK 100/620	(AB)
F11	14753	4-4	0735	Tue	0433 88888 88888 70590 77011 98101 ... 91198 72158 80633 88888 88888 00040 00040	FSK 100/620	(AB)
F11	7371	4-4	0900	Tue	0554 00000	FSK 100/620	(AB)
F11	7371	4-4	0905	Tue	0554 00000	FSK 100/620	(AB)
F11	9079	4-4	1150	Tue	0325 00000	FSK 100/620	(AB)
F11	9079	4-4	1155	Tue	0325 00000	FSK 100/620	(AB)
F11	9339	5-4	0845	Wed	0353 88888 88888 01945 81522 60749 ... 03646 33202 01621 88888 88888 00041 00041	FSK 100/620	(AB)
F11	9339	5-4	0850	Wed	0353 88888 88888 01945 81522 60749 ... 03646 33202 01621 88888 88888 00041 00041	FSK 100/620	(AB)
F11	9079	5-4	1150	Wed	0325 00000	FSK 100/620	(AB)
F11	9079	5-4	1155	Wed	0325 00000	FSK 100/620	(AB)
F11	7371	6-4	0515	Thu	0446 88888 88888 96189 56117 12114 ... 20755 29194 06161 88888 88888 00039 00039	FSK 100/620	(AB)
F11	7371	6-4	0520	Thu	0446 88888 88888 96189 56117 12114 ... 20755 29194 06161 88888 88888 00039 00039	FSK 100/620	(AB)
F11	10728	6-4	0630	Thu	0574 88888 88888 55792 54215 84719 ... 13769 77361 09446 88888 88888 00044 00044	FSK 100/620	(AB)
F11	10728	6-4	0635	Thu	0574 88888 88888 55792 54215 84719 ... 13769 77361 09446 88888 88888 00044 00044	FSK 100/620	(AB)
F11	14753	6-4	0730	Thu	0433 88888 88888 70590 77011 98101 ... 91198 72158 80633 88888 88888 00040 00040	FSK 100/620	(AB)
F11	14753	6-4	0735	Thu	0433 88888 88888 70590 77011 98101 ... 91198 72158 80633 88888 88888 00040 00040	FSK 100/620	(AB)
F11	6906	6-4	0800	Thu	0434 88888 88888 23948 67612 16782 ... 28992 85136 36045 88888 88888 00036 00036	FSK 100/620	(AB)
F11	6906	6-4	0805	Thu	0434 88888 88888 23948 67612 16782 ... 28992 85136 36045 88888 88888 00036 00036	FSK 100/620	(AB)
F11	9052	7-4	0655	Fri	0684 00000	FSK 100/620	(AB)
F11	9052	7-4	0700	Fri	0684 00000	FSK 100/620	(AB)
F11	7371	7-4	0900	Fri	0554 00000	FSK 100/620	(AB)
F11	7371	7-4	0905	Fri	0554 00000	FSK 100/620	(AB)
F11	7371	10-4	0515	Mon	0446 00000	FSK 100/620	(AB)
F11	7371	10-4	0520	Mon	0446 00000	FSK 100/620	(AB)
F11	6906	10-4	0800	Mon	0434 00000	FSK 100/620	(AB)
F11	6906	10-4	0805	Mon	0434 00000	FSK 100/620	(AB)
F11	9339	10-4	0845	Mon	0353 00000	FSK 100/620	(AB)
F11	9339	10-4	0850	Mon	0353 00000	FSK 100/620	(AB)
F11	10728	11-4	0630	Tue	0574 00000	FSK 100/620	(AB)
F11	10728	11-4	0635	Tue	0574 00000	FSK 100/620	(AB)
F11	9052	11-4	0655	Tue	0684 00000	FSK 100/620	(AB)
F11	9052	11-4	0700	Tue	0684 00000	FSK 100/620	(AB)
F11	14753	11-4	0730	Tue	0433 00000	FSK 100/620	(AB)
F11	14753	11-4	0735	Tue	0433 00000	FSK 100/620	(AB)
F11	7371	11-4	0900	Tue	0554 88888 88888 08912 62572 87080 ... 05407 20062 91406 88888 88888 00037 00037	FSK 100/620	(AB)
F11	7371	11-4	0905	Tue	0554 88888 88888 08912 62572 87080 ... 05407 20062 91406 88888 88888 00037 00037	FSK 100/620	(AB)
F11	9079	11-4	1150	Tue	0325 00000	FSK 100/620	(AB)

F11	9079	11-4	1155	Tue	0325 00000	FSK 100/620	(AB)
F11	9339	12-4	0845	Wed	0353 00000	FSK 100/620	(AB)
F11	9339	12-4	0850	Wed	0353 00000	FSK 100/620	(AB)
F11	9079	12-4	1150	Wed	0325 00000	FSK 100/620	(AB)
F11	9079	12-4	1155	Wed	0325 00000	FSK 100/620	(AB)
F11	7371	13-4	0515	Thu	0446 00000	FSK 100/620	(AB)
F11	7371	13-4	0520	Thu	0446 00000	FSK 100/620	(AB)
F11	10728	13-4	0630	Thu	0574 00000	FSK 100/620	(AB)
F11	10728	13-4	0635	Thu	0574 00000	FSK 100/620	(AB)
F11	14753	13-4	0730	Thu	0433 00000	FSK 100/620	(AB)
F11	14753	13-4	0735	Thu	0433 00000	FSK 100/620	(AB)
F11	6906	13-4	0800	Thu	0434 00000	FSK 100/620	(AB)
F11	6906	13-4	0805	Thu	0434 00000	FSK 100/620	(AB)
F11	9052	14-4	0655	Fri	0684 00000	FSK 100/620	(AB)
F11	9052	14-4	0700	Fri	0684 00000	FSK 100/620	(AB)
F11	7371	14-4	0900	Fri	0554 88888 88888 08912 62572 87080 ... 05407 20062 91406 88888 88888 00037 00037	FSK 100/620	(AB)
F11	7371	14-4	0905	Fri	0554 88888 88888 08912 62572 87080 ... 05407 20062 91406 88888 88888 00037 00037	FSK 100/620	(AB)
F11	7371	17-4	0515	Mon	0446 00000	FSK 100/620	(AB)
F11	7371	17-4	0520	Mon	0446 00000	FSK 100/620	(AB)
F11	6906	17-4	0800	Mon	0434 00000	FSK 100/620	(AB)
F11	6906	17-4	0805	Mon	0434 00000	FSK 100/620	(AB)
F11	9339	17-4	0845	Mon	0353 00000	FSK 100/620	(AB)
F11	9339	17-4	0850	Mon	0353 00000	FSK 100/620	(AB)
F11	10728	18-4	0630	Tue	0574 00000	FSK 100/620	(AB)
F11	10728	18-4	0635	Tue	0574 00000	FSK 100/620	(AB)
F11	9052	18-4	0655	Tue	0684 88888 88888 69190 37902 16466 ... 08869 10129 54391 88888 88888 00038 00038	FSK 100/620	(AB)
F11	9052	18-4	0700	Tue	0684 88888 88888 69190 37902 16466 ... 08869 10129 54391 88888 88888 00038 00038	FSK 100/620	(AB)
F11	14753	18-4	0730	Tue	0433 00000	FSK 100/620	(AB)
F11	14753	18-4	0735	Tue	0433 00000	FSK 100/620	(AB)
F11	7371	18-4	0900	Tue	0554 00000	FSK 100/620	(AB)
F11	7371	18-4	0905	Tue	0554 00000	FSK 100/620	(AB)
F11	9339	19-4	0845	Wed	0353 00000	FSK 100/620	(AB)
F11	9339	19-4	0850	Wed	0353 00000	FSK 100/620	(AB)
F11	10728	20-4	0630	Thu	0574 00000	FSK 100/620	(AB-POL)
F11	10728	20-4	0635	Thu	0574 00000	FSK 100/620	(AB-POL)
F11	6906	20-4	0800	Thu	0434 00000	FSK 100/620	(AB-POL)
F11	6906	20-4	0805	Thu	0434 00000	FSK 100/620	(AB-POL)
F11	9052	21-4	0655	Fri	0684 88888 88888 69190 37902 16466 ... 08869 10129 54391 88888 88888 00038 00038	FSK 100/620	(AB)
F11	9052	21-4	0700	Fri	0684 88888 88888 69190 37902 16466 ... 08869 10129 54391 88888 88888 00038 00038	FSK 100/620	(AB)
F11	7371	21-4	0900	Fri	0554 00000	FSK 100/620	(AB)
F11	7371	21-4	0905	Fri	0554 00000	FSK 100/620	(AB)
F11	7371	24-4	0515	Mon	0446 00000	FSK 100/620	(AB)
F11	7371	24-4	0520	Mon	0446 00000	FSK 100/620	(AB)
F11	6906	24-4	0800	Mon	0434 00000	FSK 100/620	(AB)
F11	6906	24-4	0805	Mon	0434 00000	FSK 100/620	(AB)
F11	9339	24-4	0845	Mon	0353 00000	FSK 100/620	(AB)
F11	9339	24-4	0850	Mon	0353 00000	FSK 100/620	(AB)
F11	10728	25-4	0630	Tue	0574 00000	FSK 100/620	(AB)
F11	10728	25-4	0635	Tue	0574 00000	FSK 100/620	(AB)
F11	9052	25-4	0655	Tue	0684 00000	FSK 100/620	(AB)
F11	9052	25-4	0700	Tue	0684 00000	FSK 100/620	(AB)
F11	7371	25-4	0900	Tue	0554 00000	FSK 100/620	(AB)
F11	7371	25-4	0905	Tue	0554 00000	FSK 100/620	(AB)
F11	7670	25-4	1150	Tue	0325 88888 88888 10266 48718 15400 ... 62294 07245 99863 88888 88888 00035 00035	FSK 100/620	(AB)
F11	7670	25-4	1155	Tue	0325 88888 88888 10266 48718 15400 ... 62294 07245 99863 88888 88888 00035 00035	FSK 100/620	(AB)
F11	9339	26-4	0845	Wed	0353 00000	FSK 100/620	(AB)
F11	9339	26-4	0850	Wed	0353 00000	FSK 100/620	(AB)
F11	7670	26-4	1150	Wed	0325 88888 88888 10266 48718 15400 ... 62294 07245 99863 88888 88888 00035 00035	FSK 100/620	(AB)

F11	7670	26-4	1155	Wed	0325 88888 88888 10266 48718 15400 ... 62294 07245 99863 88888 88888 00035 00035	FSK 100/620	(AB)
F11	7371	27-4	0515	Thu	0446 00000	FSK 100/620	(AB)
F11	7371	27-4	0520	Thu	0446 00000	FSK 100/620	(AB)
F11	10728	27-4	0630	Thu	0574 00000	FSK 100/620	(AB-POL)
F11	10728	27-4	0635	Thu	0574 00000	FSK 100/620	(AB-POL)
F11	6906	27-4	0800	Thu	0434 00000	FSK 100/620	(AB)
F11	6906	27-4	0805	Thu	0434 00000	FSK 100/620	(AB)
F11	9052	28-4	0655	Fri	0684 00000	FSK 100/620	(AB)
F11	9052	28-4	0700	Fri	0684 00000	FSK 100/620	(AB)
F11	7371	28-4	0900	Fri	0554 00000	FSK 100/620	(AB)
F11	7371	28-4	0905	Fri	0554 00000	FSK 100/620	(AB)
G06	6810	3-4	0750	Mon	11 Windows error sound	USB	(AB-POL)
G06	6810	3-4	0758	Mon	329 329 329 00000	USB	(AB-POL/ES)
G06	4784	3-4	1659	Mon	691 691 691 00000	USB	(AB/MPJ)
G06	4784	3-4	1705	Mon	111 111	USB	(AB)
G06	4784	3-4	1711	Mon	111 111 111 00000	USB	(AB)
G06	5460	3-4	1759	Mon	691 691 691 00000	USB	(AB/MPJ)
G06	4598	6-4	1300	Thu	329 329 329 00000	USB	(HFD)
G06	4784	10-4	1659	Mon	691 691 691 00000. Windows error sound	USB	(AB/MPJ)
G06	4784	10-4	1712	Mon	111 111 111 00000	USB	(AB)
G06	5460	10-4	1759	Mon	691 691 691 00000. Windows shut down sound	USB	(AB/MPJ/RL)
G06	5934	13-4	1828	Thu	579 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000	USB	(AB/MPJ/ES)
G06	5442	14-4	1929	Fri	947 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000	USB	(AB)
G06	6810	17-4	0800	Mon	329 329 329 00000 Windows shutdown sound	USB	(AB/BvR)
G06	5934	27-4	1930	Thu	579 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000. Windows shut down sound	USB	(AB/W9SPY)
HM01	11435	1-4	1555	Sat	58675 62551 44101 45612 28555 70471	AM/RDFT	(RR2)
HM01	11435	2-4	1556	Sun	58675 62551 44101 45612 28555 70471 (Repeating 1 April groups)	AM/RDFT	(RR2)
HM01	10715	2-4	2200	Sun	58675 62551 44101 45612 28555 70471	AM/RDFT	(Dan)
HM01	11435	3-4	1556	Mon	58675 62551 44101 45612 28555 70471 (Repeating 1 April groups)	AM/RDFT	(RR2)
HM01	11435	4-4	1558	Tue	58675 62551 44101 45612 28555 70471 (Repeating 1 April groups)	AM/RDFT	(RR2)
HM01	11435	5-4	1600	Wed	13501 62552 44101 45613 28556 70472	AM/RDFT	(RR2)
HM01	10715	5-4	2157	Wed	13501 62552 44101 45613 28556 70472	AM/RDFT	(RL)
HM01	11435	6-4	1605	Thu	13502 62553 44102 45614 28557 70473	AM/RDFT	(RR2)
HM01	17480	6-4	2200	Thu	13502 62553 44102 45614 28557 70473. After data transmission a brief music ID from Radio Habana Cuba	AM/RDFT	(Dan)
HM01	8136	6-4	2303	Thu	HM01 sent in stead of M08a	LSB	(Sha)
HM01	11435	7-4	1559	Fri	13503 62554 44103 45615 28558 70474	AM/RDFT	(RR2)
HM01	16180	8-4	2057	Sat	13504 62555 44104 45616 28559 70475	AM/RDFT	(RL)
HM01	17480	8-4	2157	Sat	13504 62555 44104 45616 28559 70475	AM/RDFT	(RL)
HM01	11635	9-4	2057	Sun	13505 62556 44105 45617 80611 70476	AM/RDFT	(RL)
HM01	11435	10-4	1600	Mon	13506 62557 44106 45618 80611 70477	AM/RDFT	(RR2)
HM01	11530	11-4	1701	Tue	13507 62558 44107 83211 80612 75371	AM/RDFT	(RR2)
HM01	16180	11-4	2057	Tue	13507 62558 44107 83211 80612 75371	AM/RDFT	(RL)
HM01	11435	12-4	1600	Wed	13507 62558 44107 83211 80612 75371 (repeating 11 April groups)	AM/RDFT	(RR2)
HM01	11635	12-4	2057	Wed	13507 62558 44107 83211 80612 75371 (repeating 11 April groups)	AM/RDFT	(RL)
HM01	10715	12-4	2157	Wed	13507 62558 44107 83211 80612 75371 (repeating 11 April groups)	AM/RDFT	(RL)
HM01	11435	13-4	1600	Thu	13507 62558 44107 83211 80612 75371 (repeating 11 April groups)	AM/RDFT	(RR2)
HM01	16180	13-4	2057	Thu	13507 62558 44107 83211 80612 75371 (repeating 11 April groups)	AM/RDFT	(RL)
HM01	17480	13-4	2157	Thu	13507 62558 44107 83211 80612 75371 (repeating 11 April groups)	AM/RDFT	(RL)
HM01	11435	14-4	1602	Fri	i.p. 13507 62558 44107 83211 80612 75371 (repeat- ing 11 April groups)	AM/RDFT	(RR2)
HM01	11635	14-4	1818	Fri	13507 62558 44107 83211 80612 75371 (repeating 11 April groups)	AM/RDFT	(DSch)

HM01	10715	14-4	2158	Fri	13507 62558 44107 83211 80612 75371 (repeating 11 April groups)	AM/RDFT	(RL)
HM01	11435	15-4	1603	Sat	i.p. 13507 62558 44107 83211 80612 75371 (repeating 11 April groups)	AM/RDFT	(RR2)
HM01	16180	15-4	2057	Sat	13507 62558 44107 83211 80612 75371 (repeating 11 April groups)	AM/RDFT	(RL)
HM01	17480	15-4	2157	Sat	13507 62558 44107 83211 80612 75371 (repeating 11 April groups)	AM/RDFT	(RL)
HM01	9065	16-4	0835	Sun	13507 62558 44107 83211 80612 75371 (repeating 11 April groups)	AM/RDFT	(BvR)
HM01	11635	16-4	2046	Sun	Abruptly on at 2046z right into groups & data till 2050z then open carrier til 2058z	AM/RDFT	(RR2)
HM01	11635	16-4	2058	Sun	13507 62558 44107 83211 80612 75371 (repeating 11 April groups)	AM/RDFT	(RR2)
HM01	11635	16-4	2141	Sun	13507 62558 44107 83211 80612 75371 (repeating 11 April groups)	AM/RDFT	(DSch)
HM01	11435	17-4	1600	Mon	13507 62558 44107 83211 80612 75371 (repeating 11 April groups)	AM/RDFT	(RR2)
HM01	11435	18-4	1604	Tue	Windows sounds, then "uno" repeated till 1606z then new groups: 31104 32856 33004 83217 80619 75377	AM/RDFT	(RR2)
HM01	11435	18-4	1640	Tue	31104 32856 33004 83217 80619 75377 at 181640	AM/RDFT	(DSch)
HM01	11435	19-4	1611	Wed	i.p. 31104 32856 33004 83217 80619 75377 (repeating 18 April groups)	AM/RDFT	(RR2)
HM01	11635	19-4	1800	Wed	31104 32856 330 4 83217 80619 75377 (repeating 18 April groups)	AM/RDFT	(DSch)
HM01	11435	20-4	1621	Thu	31104 32856 33004 83217 80619 75377 (Repeats 18 April groups)	AM/RDFT	(DSch)
HM01	17480	20-4	2230	Thu	31104 32856 33004 83217 80619 75377 (Repeats 18 April groups)	AM/RDFT	(RR2)
HM01	11435	21-4	1559	Fri	31104 32856 33004 83217 80619 75377 (Repeats 18 April groups)	AM/RDFT	(RR2)
HM01	11435	21-4	1633	Fri	31104 32856 33004 83217 80619 75377 (Repeats 18 April groups)	AM/RDFT	(DSch)
HM01	10715	21-4	2200	Fri	31104 32856 33004 83217 80619 75377 (Repeating 18 April groups)	AM/RDFT	(Dan)
HM01	11435	22-4	1630	Sat	31104 32856 33004 83217 80619 75377 (Repeating 18 April groups)	AM/RDFT	(RR2)
HM01	11635	22-4	1820	Sat	i.p. 31104 32856 33004 83217 80619 75377 (Repeating 18 April groups)	AM/RDFT	(DSch)
HM01	10345	23-4	0529	Sun	i.p. 31104 32856 33004 83217 80619 75377 (Repeating 18 April groups)	AM/RDFT	(BvR)
HM01	11435	23-4	1559	Sun	31104 32856 33004 83217 80619 75377 (Repeating 18 April groups)	AM/RDFT	(RR2)
HM01	11530	23-4	1700	Sun	31104 32856 33004 83217 80619 75377 (Repeating 18 April groups)	AM/RDFT	(RR2)
HM01	11435	25-4	1559	Tue	31104 32856 33004 83217 80619 75377 (Repeating 18 April groups)	AM/RDFT	(RR2)
HM01	11635	25-4	1838	Tue	i.p. 31104 32856 33004 83217 80619 75377 (Repeating 18 April groups)	AM/RDFT	(DSch)
HM01	9330	26-4	0709	Wed	i.p. 31104 32856 33004 83217 80619 75377 (Repeating 18 April groups)	AM/RDFT	(RS111)
HM01	11435	26-4	1559	Wed	31104 32856 33004 83217 80619 75377 (Repeating 18 April groups)	AM/RDFT	(RR2)
HM01	11435	26-4	1644	Wed	i.p. 31104 32856 33004 83217 80619 75377 (Repeating 18 April groups)	AM/RDFT	(DSch)
HM01	11435	27-4	1601	Thu	i.p. 31104 32856 33004 83217 80619 75377 (Repeating 18 April groups)	AM/RDFT	(DSch)
HM01	11530	28-4	1711	Fri	i.p. 31104 32856 33004 83217 80619 75377 (Repeating 18 April groups)	AM/RDFT	(DSch)
HM01	11435	29-4	1601	Sat	i.p. 31104 32856 33004 83217 80619 75377 (Repeating 18 April groups)	AM/RDFT	(DSch)
HM01	16180	29-4	2057	Sat	31104 32856 33004 83217 80619 75377 (Repeating 18 April groups)	AM/RDFT	(RL)
HM01	17480	29-4	2157	Sat	31104 32856 33004 83217 80619 75377 (Repeating 18 April groups)	AM/RDFT	(RL)
HM01	11435	30-4	1630	Sun	i.p. 31104 32856 33004 83217 80619 75377 (Repeating 18 April groups)	AM/RDFT	(RR2)

					ing 18 April groups)		
HM01	11530	30-4	1701	Sun	i.p. 31104 32856 33004 83217 80619 75377 (Repeating 18 April groups)	AM/RDFT	(DSch)
HM02	4761	2-4	0420	Sun	191 47 = 05627 01316 65341 ... 77445 13718 34240 = 191 47 191 47 = repeats message = 191 47 000	FSK- 19.8bd/129Hz/F SK-CW	(AB)
HM02	4761	3-4	0420	Mon	121 41 = 40061 15774 82263 ... 23403 53456 90500 = 121 41 121 41 = repeats message = 121 41 000	FSK- 19.8bd/129Hz/F SK-CW	(AB)
HM02	4761	4-4	0420	Tue	803 46 = 72787 89083 41375 ... 64262 62587 61422 = 803 46 803 46 = repeats message = 803 46 000	FSK- 19.8bd/129Hz/F SK-CW	(AB)
HM02	4761	5-4	0420	Wed	915 47 = 27687 30547 88377 ... 83272 66007 72646 = 915 47 915 47 = repeats message = 915 47 000	FSK- 19.8bd/129Hz/F SK-CW	(AB)
HM02	4761	6-4	0420	Thu	678 48 = 27687 30547 88377 ... 66007 72646 57635 = 679 48 679 48 = repeats message = 679 48 000	FSK- 19.8bd/129Hz/F SK-CW	(AB)
HM02	4761	7-4	0422	Fri	531 44 = 82247 76594 81625 ... 18702 79835 03370 = 531 44 531 44 = repeats message = 531 44 000	FSK- 19.8bd/129Hz/F SK-CW	(AB)
HM02	4761	8-4	0420	Sat	962 43 = 19067 93318 42856 ... 02446 96428 97902 = 962 43 962 43 = repeats message = 962 43 000	FSK- 19.8bd/129Hz/F SK-CW	(AB)
HM02	4761	10-4	0420	Mon	960 44 = 60284 96562 81625 ... 18702 86642 64752 = 960 44 960 44 = repeats message = 960 44 000	FSK- 19.8bd/129Hz/F SK-CW	(AB)
HM02	4761	11-4	0420	Tue	247 43 = 09720 34403 60708 ... 88599 36210 74234 = 247 43 247 43 = repeats message = 247 43 000	FSK- 19.8bd/129Hz/F SK-CW	(AB)
HM02	4761	12-4	0420	Wed	921 46 = 04206 45081 55355 ... 38017 91236 50093 = 921 46 921 46 = repeats message = 921 46 000	FSK- 19.8bd/129Hz/F SK-CW	(AB)
HM02	4761	14-4	0420	Fri	128 49 = 16413 64834 18670 ... 27182 85607 11742 = 128 49 128 49 = repeats message = 128 49 000	FSK- 19.8bd/129Hz/F SK-CW	(AB)
HM02	4761	15-4	0420	Sat	931 47 = 27687 30547 88377 ... 83272 66007 72646 = 931 47 931 47 = repeats message = 931 47 000	FSK- 19.8bd/129Hz/F SK-CW	(AB)
HM02	4761	16-4	0420	Sun	817 46 = 64146 40156 91476 ... 02917 85549 21999 = 817 46 817 46 = repeats message = 817 46 000	FSK- 19.8bd/129Hz/F SK-CW	(AB)
HM02	4761	18-4	0420	Tue	275 46 = 55148 73896 64069 ... 33524 90990 85536 = 275 46 275 46 = repeats message = 275 46 000	FSK- 19.8bd/129Hz/F SK-CW	(AB)
HM02	4761	19-4	0420	Wed	257 42 = 03400 32973 77141 ... 66667 42792 15139 = 257 42 257 42 = repeats message = 257 42 000	FSK- 19.8bd/129Hz/F SK-CW	(AB)
HM02	4761	20-4	0420	Thu	207 46 = 65005 63233 12690 ... 68104 07352 76873 = 207 46 207 46 = repeats message = 207 46 000	FSK- 19.8bd/129Hz/F SK-CW	(AB-POL)
HM02	4761	22-4	0420	Sat	497 53 = 65005 63233 12690 ... 69396 43119 21687 = 497 53 497 53 = repeats message = 497 53 000	FSK- 19.8bd/129Hz/F SK-CW	(AB)
HM02	4761	24-4	0420	Mon	107 56 = 65005 63233 12690 ... 56874 32954 40912 = 107 56 107 56 = repeats message = 107 56 000	FSK- 19.8bd/129Hz/F SK-CW	(AB)
HM02	4761	26-4	0420	Wed	529 46 = 87484 42925 67103 ... 03370 75803 52272 = 529 46 29 46 = repeats message = 529 46 000	FSK- 19.8bd/129Hz/F SK-CW	(AB)
HM02	4761	27-4	0420	Thu	294 48 = 12649 08179 48307 ... 08862 78314 50613 = 294 48 294 48 = repeats message = 294 48 000	FSK- 19.8bd/129Hz/F SK-CW	(AB)
HM02	4761	28-4	0420	Fri	984 45 = 12649 08179 48307 ... 31639 06868 75986 = 984 45 984 45 = repeats message = 984 45 000	FSK- 19.8bd/129Hz/F SK-CW	(AB)
HM02	4761	30-4	0420	Sun	849 46 = 12649 08179 48307 ... 06868 75986 39695	FSK-	(AB)

					= 849 46 849 46 = repeats message = 849 46 000	19.8bd/129Hz/F SK-CW	
Jam-mer	13735	3-4	1400	Mon	Vietnamese siren jammer	AM	(ES)
M01	6260	1-4	1500	Sat	463 127 30 30 == 65076 95109 59823 ... 94705 71656 36690 == 127 127 30 30 000	CW	(AB/chpa/MPJ/ES)
M01	5475	4-4	1800	Tue	463 235 30 == 71570 23498 23080 23143 53976 ... (faded) ... 66442 96153 == 235 30 000	CW	(MPJ)
M01	5475	6-4	1759	Thu	463 573 30 == 09834 12173 67016 94083 37413 ... 74543 05103 92533 26483 14827 == 573 30 000	CW	(MPJ)
M01	5020	6-4	2002	Thu	463 537 30 == 49824 73874 29941 64009 87148 ...58946 72947 68497 19126 84152 == 463 537 30 000	CW	(MPJ)
M01	6260	8-4	1500	Sat	463 105 30 105 30 == 34197 05146 34903 ... 23463 53392 53889 == 105 105 30 30 000	CW	(AB/MPJ/ES)
M01	6510	9-4	0700	Sun	463 289 30 = 34449 66346 16004 51215 37609 29028 64347 75439 86635 22992 ...	CW	(AB-RUS)
M01	5475	11-4	1800	Tue	463 911 911 30 30 == 56473 55598 18528 ... 36136 12839 11996 = 911 911 30 30 000	CW	(AB/MPJ)
M01	5020	11-4	2000	Tue	463 723 30 = 77052 42807 57367 04723 82240 ... 91967 70967 88434 57752 01001 = 723 30 000	CW	(MPJ)
M01	5475	13-4	1800	Thu	463 128 30 = 57045 83356 52706 ... 06995 89432 63015 = 128 30 000	CW	(ES-POL)
M01	5475	13-4	1800	Thu	463 128 30 = 57045 83356 52706 38748 52127 ... 44910 22853 06995 89432 63015 = 127 30 00	CW	(MPJ/ES)
M01	5020	13-4	2000	Thu	463 218 30 = 72417 91524 29290 ... 75293 28845 90525 = 218 30 000	CW	(ES)
M01	5020	13-4	2001	Thu	VVV 463 218 30 = 72417 91524 29290 34049 86392 ... 77268 03892 75293 28845 90525 == 218 30 000	CW	(MPJ/ES)
M01	6260	15-4	1500	Sat	463 921 91 30 30 == 99241 36671 52813 ... 14866 90518 39530 == 921 921 30 30 000	CW	(AB/MPJ)
M01	6510	16-4	0700	Sun	463 732 30 = 98136 86693 48245 ... 96267 71110 91959 = 732 30 000	CW	(ES)
M01	5020	20-4	2000	Thu	463 425 30 == 41708 .4858 56.30 19837 35734 ... 20726 70944 22781 63793 49417 = 425 30 000	CW	(MPJ/ES)
M01	6260	22-4	1500	Sat	463 228 228 30 30 = 18233 98272 77289 ... 79228 12204 12508 228 228 30 30 000	CW	(AB/ES)
M01	5475	25-4	1800	Tue	463 129 129 30 30 = 41068 34287 51603 ... 29149 19402 46471 == 129 129 30 30 000	MCW	(AB/MPJ)
M01	6260	29-4	1450	Sat	VVV	CW	(AB-RUS)
M01	6260	29-4	1500	Sat	463 131 131 30 30 = 22447 95673 76728 ... 92738 85508 81317 = 131 131 30 30 000	CW	(AB-RUS/MPJ/ES)
M01	6510	30-4	0700	Sun	463 223 223 30 30 = 23544 72605 54677 ... 98840 37078 34266 == 223 223 30 30 000	MCW	(AB)
M01b	3520	1-4	2010	Sat	582 713 33 == 03498 80124 75656 38310 63072 ... 08615 83011 30018 90117 65724 == 713 33 000 //4585 kHz	MCW	(MPJ)
M01b	4584	1-4	2010	Sat	582 713 33 == 03498 80124 75656 38310 63072 ... 08615 83011 30018 90117 65724 == 713 33 000 //3520 kHz	MCW	(MPJ)
M01b	3535	3-4	1810	Mon	420 521 35 = 49675 3535 //4590	CW	(HFD)
M01b	4590	3-4	1810	Mon	420 521 35 = 49675 3535 //3535	CW	(HFD)
M01b	3645	3-4	1915	Mon	771 521 35 == 49675 77332 46821 71413 70078 ... 32131 02452 46124 36007 05387 == 521 35 000 //4455 kHz	MCW	(MPJ/HFD)
M01b	4455	3-4	1915	Mon	771 521 35 == 49675 77332 46821 71413 70078 ... 32131 02452 46124 36007 05387 == 521 35 000 //3645 kHz	MCW	(MPJ/HFD)
M01b	3510	6-4	1832	Thu	771 521 35 == 49675 77332 46821 71413 70078 ... 32131 02452 46124 36007 05387 == 521 35 000 //4605 kHz	MCW	(MPJ)
M01b	4605	6-4	1832	Thu	771 521 35 == 49675 77332 46821 71413 70078 ... 32131 02452 46124 36007 05387 == 521 35 000 //3510 kHz	MCW	(MPJ)
M01b	3715	6-4	1942	Thu	771 521 35 == 49675 77332 46821 71413 70078 ... 32131 02452 46124 36007 05387 == 521 35 000	MCW	(MPJ/HFD)

					//4570 kHz		
M01b	4570	6-4	1942	Thu	771 521 35 = = 49675 77332 46821 71413 70078 ... 32131 02452 46124 36007 05387 = = 521 35 000 //3715 kHz	MCW	(MPJ/HFD)
M01b	3265	7-4	1902	Fri	153 521 35 = = 49675 77332 46821 71413 70078 ... 32131 02452 46124 36007 05387 = = 521 35 000 //4940 kHz	MCW	(MPJ)
M01b	4940	7-4	1902	Fri	153 521 35 = = 49675 77332 46821 71413 70078 ... 32131 02452 46124 36007 05387 = = 521 35 000 //3625 kHz	MCW	(MPJ)
M01b	3535	10-4	1810	Mon	420 521 35 = = 49675 77332 46821 71413 70078 ... 32131 02452 46124 36007 05387 = = 521 35 000 //4590 kHz	MCW	(MPJ)
M01b	4590	10-4	1810	Mon	420 521 35 = = 49675 77332 46821 71413 70078 ... 32131 02452 46124 36007 05387 = = 521 35 000 //3535 kHz	MCW	(MPJ)
M01b	3645	10-4	1915	Mon	771 521 35 = = 49675 77332 ... 36007 05387 = = 521 35 000 //4455 kHz	MCW	(MPJ)
M01b	4455	10-4	1915	Mon	771 521 35 = = 49675 77332 ... 36007 05387 = = 521 35 000 //3645 kHz	MCW	(MPJ/RL)
M01b	3510	13-4	1832	Thu	201 521 35 = 49675 77332 à... 36007 05387 = 521 35 000 //4605 kHz	MCW	(ES-POL)
M01b	3510	13-4	1832	Thu	201 521 35 = = 49675 77332 46821 71413 70078 ... 32131 02452 46124 26007 05387 = = 521 35 000 //4605 kHz	MCW	(MPJ/ES)
M01b	3510	13-4	1832	Thu	201 521 35 = 49675 77332 46821 ... 46124 36007 05387 = 521 35 000 //4605 kHz	MCW	(ES-POL)
M01b	4605	13-4	1832	Thu	201 521 35 = = 49675 77332 46821 71413 70078 ... 32131 02452 46124 26007 05387 = = 521 35 000 //3510 kHz	MCW	(MPJ/ES)
M01b	4605	13-4	1832	Thu	201 521 35 = 49675 77332 à... 36007 05387 = 521 35 000 //3510 kHz	MCW	(ES-POL)
M01b	4605	13-4	1832	Thu	201 521 35 = 49675 77332 46821 ... 46124 36007 05387 = 521 35 000 //3510 kHz	MCW	(ES-POL)
M01b	3715	13-4	1942	Thu	201 521 35 = = 49675 77332 46821 71413 70078 ... 32131 02452 46124 26007 05387 = = 521 35 000 //4570 kHz	MCW	(MPJ/ES)
M01b	3715	13-4	1942	Thu	477 521 35 = 49675 77332 à... 36007 05387 = 521 35 000 //4570 kHz	MCW	(ES-POL)
M01b	4570	13-4	1942	Thu	477 521 35 = 49675 77332 à... 36007 05387 = 521 35 000 //3715 kHz	MCW	(ES-POL)
M01b	4570	13-4	1942	Thu	201 521 35 = = 49675 77332 46821 71413 70078 ... 32131 02452 46124 26007 05387 = = 521 35 000 //3715 kHz	MCW	(MPJ/ES)
M01b	3625	14-4	1902	Fri	153 521 35 = = 49675 77332 46821 71413 70078 ... 32131 02452 46124 26007 05387 = = 521 35 000 //4940 kHz	MCW	(MPJ/HFD)
M01b	4940	14-4	1902	Fri	153 521 35 = = 49675 77332 46821 71413 70078 ... 32131 02452 46124 26007 05387 = = 521 35 000 //3625 kHz	MCW	(MPJ/HFD)
M01b	3520	14-4	2010	Fri	582 521 35 = 49765 3520 //4585	CW	(HFD)
M01b	4585	14-4	2010	Fri	582 521 35 = 49765 3520 //3520	CW	(HFD)
M01b	3535	17-4	1810	Mon	420 521 35 = = 49675 77332 46821 71414 ... 32131 02452 46124 26007 05387 = = 521 35 000 //4590 kHz	MCW	(MPJ)
M01b	4590	17-4	1810	Mon	420 521 35 = = 49675 77332 46821 71414 ... 32131 02452 46124 26007 05387 = = 521 35 000 //3535 kHz	MCW	(MPJ)
M01b	3645	17-4	1915	Mon	771 521 35 = = 49675 77332 46821 71414 ... 32131 02452 46124 26007 05387 = = 521 35 //4455 kHz	MCW	(MPJ)
M01b	4455	17-4	1915	Mon	771 521 35 = = 49675 77332 46821 71414 ... 32131 02452 46124 26007 05387 = = 521 35 //3645 kHz	MCW	(MPJ)
M01b	3510	20-4	1832	Thu	201 521 35 = = 49675 77332 46821 ... 46124 36007 05387 = = 521 35 000 //4605 kHz	MCW	(MPJ/ES/HFD)
M01b	4605	20-4	1832	Thu	201 521 35 = = 49675 77332 46821 ... 46124 36007 05387 = = 521 35 000 //3510 kHz	MCW	(AB/MPJ/ES/HFD)
M01b	3715	20-4	1942	Thu	477 521 35 = = 49675 77332 46821 ... 46124 36007	MCW	(AB/MPJ/ES)

					05387 = = 521 35 000		
M01b	3535	24-4	1810	Mon	420 521 521 35 35 = = 49675 77332 46821 ... 46124 36007 05387 = = 521 521 35 35 000 //4590 kHz	MCW	(MPJ)
M01b	4590	24-4	1810	Mon	420 521 521 35 35 = = 49675 77332 46821 ... 46124 36007 05387 = = 521 521 35 35 000 //3535 kHz	MCW	(MPJ)
M01b	3645	24-4	1915	Mon	771 521 521 35 35 = = 49675 77332 46821 ... 46124 36007 05387 = = 521 521 35 35 000 //4455 kHz	MCW	(AB/MPJ)
M01b	4455	24-4	1915	Mon	771 521 521 35 35 = = 49675 77332 46821 ... 46124 36007 05387 = = 521 521 35 35 000 //3645 kHz	MCW	(AB/MPJ)
M01b	3625	28-4	1902	Fri	153 521 521 35 35 = = 49675 77332 46821 ... 46124 36007 05387 = = 521 521 35 35 000	MCW	(MPJ)
M01b	4940	28-4	1902	Fri	153 521 521 35 35 = = 49675 77332 46821 ... 46124 36007 05387 = = 521 521 35 35 000	MCW	(AB/MPJ)
M12	8176	1-4	0500	Sat	134 134 134 000	CW	(AB/ES/HFD)
M12	9376	1-4	0520	Sat	134 134 134 000	CW	(AB/ES/HFD)
M12	14468	1-4	1310	Sat	451 1 1017 73 = 13904	CW	(HFD)
M12	14468	1-4	1310	Sat	451 1 1017 73 13904 97074 25443 ... 71575 85000 45025 000 000	CW	(AB/MPJ/ES/HFD)
M12	13568	1-4	1330	Sat	451 1 1017 73 13904 97074 25443 ... 71575 85000 45025 000 000	CW	(AB/MPJ/ES/HFD)
M12	12178	1-4	1350	Sat	451 1 1017 73 13904 97074 25443 ... 71575 85000 45025 000 000	CW	(AB/ES)
M12	18524	3-4	1400	Mon	548 548 648 000	CW	(AB)
M12	17424	3-4	1420	Mon	548 548 648 000	CW	(AB)
M12	18524	5-4	1400	Wed	548 548 548 000	CW	(AB/MPJ/ES)
M12	17424	5-4	1420	Wed	548 548 548 000	CW	(AB/MPJ/ES)
M12	6793	5-4	2100	Wed	785 1 4739 127 45648 63513 76313 61575 8955 47321 05796 67746 57808 ...	CW	(AB)
M12	5893	5-4	2120	Wed	785 1 4739 127 45648 63513 76313 61575 8955 47321 05796 67746 57808 ...	CW	(AB)
M12	4593	5-4	2140	Wed	785 1 4739 127 45648 63513 76313 61575 8955 47321 05796 67746 57808 ...	CW	(AB)
M12	12203	6-4	0500	Thu	262 262 262 000	CW	(AB-J)
M12	10693	6-4	0520	Thu	262 262 262 000	CW	(AB-J)
M12	14468	6-4	1310	Thu	451 451 451 000	CW	(AB/RL/MPJ/ES)
M12	13568	6-4	1330	Thu	451 451 451 000	CW	(AB/MPJ/ES)
M12	8176	8-4	0500	Sat	134 4739 127 45648 63513 76313 ... 12802 70145 43108 000 000	CW	(AB/ES)
M12	9376	8-4	0520	Sat	134 4739 127 45648 63513 76313 ... 12802 70145 43108 000 000	CW	(AB/ES)
M12	10476	8-4	0540	Sat	134 4739 127 45648 63513 76313 ... 12802 70145 43108 000 000	CW	(AB/ES)
M12	14468	8-4	1310	Sat	451 451 451 000	CW	(AB/MPJ/ES)
M12	13568	8-4	1330	Sat	451 451 451 000	CW	(AB/MPJ/ES)
M12	11469	8-4	2110	Sat	441 441 441 000	CW	(RL)
M12	18524	10-4	1400	Mon	548 1 9984 103 84602 72221 75068 35902 80866 ... 68787 49850 79257 36020 66910 000 000	CW	(MPJ)
M12	17424	10-4	1420	Mon	548 1 9984 103 84602 72221 75068 35902 80866 ... 68787 49850 79257 36020 66910 000 000	CW	(MPJ)
M12	15824	10-4	1440	Mon	548 1 9984 103 84602 72221 75068 35902 80866 ... 68787 49850 79257 36020 66910 000 000	CW	(MPJ)
M12	18524	12-4	1400	Wed	548 1 9984 103 14602 72221 75068 ... 79257 36020 66910 000 000	CW	(AB-RUS)
M12	17424	12-4	1420	Wed	548 1 9984 103 14602 72221 75068 ... 79257 36020 66910 000 000	CW	(AB-RUS)
M12	15824	12-4	1440	Wed	548 1 9984 103 14602 72221 75068 ... 79257 36020 66910 000 000	CW	(AB-RUS)
M12	8047	12-4	1900	Wed	463 1	CW	(HFD)
M12	6802	12-4	1920	Wed	463 1	CW	(HFD)
M12	5788	12-4	1940	Wed	463 1	CW	(HFD)
M12	6793	12-4	2100	Wed	785 785 785 000	CW	(AB/HFD)
M12	11469	12-4	2110	Wed	441 1	CW	(AB/HFD)
M12	5893	12-4	2120	Wed	785 785 785 000	CW	(AB/HFD)
M12	10469	12-4	2130	Wed	441 1	CW	(HFD)
M12	9169	12-4	2150	Wed	441 1	CW	(HFD)
M12	12203	13-4	0500	Thu	262 1 432 57 51091 87766 11294 ... 68826 99993 99378 000 000	CW	(AB-J)

M12	10693	13-4	0520	Thu	262 1 432 57 51091 87766 11294 ... 68826 99993 99378 000 000	CW	(AB-J)
M12	9293	13-4	0540	Thu	262 1 432 57 51091 87766 11294 ... 68826 99993 99378 000 000	CW	(AB-J)
M12	14468	13-4	1310	Thu	451 1 8839 61 35735 69572 23486 ... 01491 37889 77439 000 000	CW	(AB/MPJ/ES)
M12	13568	13-4	1330	Thu	451 1 8839 61 35735 69572 23486 ... 01491 37889 77439 000 000	CW	(AB/MPJ/ES)
M12	12178	13-4	1340	Thu	451 1 8839 61 35735 69572 23486 ... 01491 37889 77439 000 000	CW	(AB/MPJ/ES)
M12	8176	15-4	0500	Sat	134 134 134 000	CW	(AB/ES)
M12	9376	15-4	0520	Sat	134 134 134 000	CW	(AB/ES)
M12	14468	15-4	1310	Sat	451 1 8839 61 35735 69572 23486 ... 01491 37889 77439 000 000	CW	(AB/MPJ/ES)
M12	13568	15-4	1330	Sat	451 1 8839 61 35735 69572 23486 ... 01491 37889 77439 000 000	CW	(AB/MPJ/ES)
M12	12178	15-4	1340	Sat	451 1 8839 61 35735 69572 23486 ... 01491 37889 77439 000 000	CW	(AB/MPJ/ES)
M12	11469	15-4	2110	Sat	441 1 2277 99 51941 48179 ... 40527 89574 000 000	CW	(ES)
M12	10469	15-4	2130	Sat	441 1 2277 99 51941 48179 ... 40527 89574 000 000	CW	(ES)
M12	9169	15-4	2150	Sat	441 1 2277 99 51941 48179 ... 40527 89574 000 000	CW	(ES)
M12	18524	17-4	1400	Mon	548 548 548 000	CW	(AB-RUS)
M12	17424	17-4	1420	Mon	548 548 548 000	CW	(AB-RUS/MPJ)
M12	7931	17-4	1720	Mon	257 1 9385 102 9385 101 07556 17903 31860 91504 94669 46892 70634 ... 000 000	CW	(F5JBR-J)
M12	6904	17-4	1740	Mon	257 1 9385 102 9385 101 07556 17903 31860 91504 94669 46892 70634 ... 000 000	CW	(F5JBR-J)
M12	18524	19-4	1400	Wed	548 548 548 000	CW	(AB-RUS/ES)
M12	17424	19-4	1420	Wed	548 548 548 000	CW	(AB-RUS/ES)
M12	6793	19-4	2100	Wed	785 1 7494 91 94541 75431 66040 ... 39828 13283 47539 000 000	CW	(AB)
M12	5893	19-4	2120	Wed	785 1 7494 91 94541 75431 66040 ... 39828 13283 47539 000 000	CW	(AB)
M12	4593	19-4	2140	Wed	785 1 7494 91 94541 75431 66040 ... 39828 13283 47539 000 000	CW	(AB)
M12	14468	20-4	1310	Thu	451 451 451 000	CW	(AB-RUS/ES)
M12	13568	20-4	1330	Thu	451 451 451 000	CW	(AB-RUS/MPJ/ES)
M12	8176	22-4	0500	Sat	134 1 7494 91 94541 75431 66040 ... 39828 13283 47539 000 000	CW	(AB/ES)
M12	9376	22-4	0520	Sat	134 1 7494 91 94541 75431 66040 ... 39828 13283 47539 000 000	CW	(AB/ES)
M12	10476	22-4	0540	Sat	134 1 7494 91 94541 75431 66040 ... 39828 13283 47539 000 000	CW	(AB/ES)
M12	14468	22-4	1310	Sat	451 451 451 000	CW	(AB/MPJ/ES)
M12	13568	22-4	1330	Sat	451 451 451 000	CW	(AB/MPJ/ES)
M12	18524	24-4	1400	Mon	548 1 6491 87 40704 01383 74484 ... 17105 68567 66443 000 000	CW	(ES-RUS)
M12	17424	24-4	1420	Mon	548 1 6491 87 40704 01383 74484 ... 17105 68567 66443 000 000	CW	(ES-RUS)
M12	15824	24-4	1440	Mon	548 1 6491 87 40704 01383 74484 ... 17105 68567 66443 000 000	CW	(ES-RUS)
M12	15824	24-4	1440	Mon	548 1 6491 87 40704 01383 74484 911.6 09164 ... 61287 69356 17105 68567 66443 000 000	CW	(MPJ)
M12	10693	25-4	0500	Tue	262 262 262 1 589 71 589 71 48980 08317 96590 ... 61377 12936 26055 000 000	CW	(AB-J)
M12	12203	25-4	0500	Tue	262 262 262 1 589 71 589 71 48980 08317 96590 ... 61377 12936 26055 000 000	CW	(AB-J)
M12	9293	25-4	0540	Tue	262 262 262 1 589 71 589 71 48980 08317 96590 ... 61377 12936 26055 000 000	CW	(AB-J)
M12	18524	26-4	1400	Wed	548 1 6491 87 40704 01383 74484 ... 17105 68567 66443 000 000	CW	(AB-RUS/MPJ)
M12	17424	26-4	1420	Wed	548 1 6491 87 40704 01383 74484 ... 17105 68567 66443 000 000	CW	(AB-RUS/MPJ)
M12	15824	26-4	1440	Wed	548 1 6491 87 40704 01383 74484 ... 17105 68567 66443 000 000	CW	(AB-RUS/MPJ)
M12	6793	26-4	2100	Wed	785 785 785 000	CW	(AB)
M12	11469	26-4	2110	Wed	441 1 ...	CW	(MCO)

M12	5893	26-4	2120	Wed	785 785 785 000	CW	(AB)
M12	14468	27-4	1310	Thu	451 1 3294 83 29939 62651 14574 22302 13569 ... 88016 45995 40042 45039 38825 000 000	CW	(AB/ES)
M12	13568	27-4	1330	Thu	451 1 3294 83 29939 62651 14574 22302 13569 ... 88016 45995 40042 45039 38825 000 000	CW	(AB/ES)
M12	12178	27-4	1350	Thu	451 1 3294 83 29939 62651 14574 22302 13569 ... 88016 45995 40042 45039 38825 000 000	CW	(AB/ES)
M12	8176	29-4	0500	Sat	134 134 134 000	CW	(AB/ES)
M12	9376	29-4	0520	Sat	134 134 134 000	CW	(AB/ES)
M12	14468	29-4	1310	Sat	451 1 3294 83 29939 62651 14574 ... 40042 45039 38825 000 000	CW	(AB/MPJ/ES)
M12	13568	29-4	1330	Sat	451 1 3294 83 29939 62651 14574 ... 40042 45039 38825 000 000	CW	(AB/MPJ/ES)
M12	12178	29-4	1350	Sat	451 1 3294 83 29939 62651 14574 ... 40042 45039 38825 000 000	CW	(AB/MPJ/ES)
M14	5430	1-4	0800	Sat	171 184 59 13253 26472 48950 ... 49653 12311 84502 184 59 00000	CW	(AB-RUS)
M14	5560	1-4	0900	Sat	171 184 59 13253 26472 48950 ... 49653 12311 84502 184 59 00000	CW	(AB-RUS/ES)
M14	5240	2-4	2300	Sun	376 184 59 13253 26472 48950 ... 49653 12311 84502 184 59 00000	CW	(AB)
M14	5825	3-4	0000	Mon	376 184 59 13253 26472 48950 ... 49653 12311 84502 184 59 00000	CW	(AB)
M14	9463	4-4	0832	Tue	i.p. sending 801 for over an hour	CW	(ES)
M14	4635	4-4	1600	Tue	273 273 273 00000	CW	(AB/MPJ)
M14	18041	5-4	0500	Wed	952 718 50 = = 28379 26566 04021 ... 59644 78180 90642 = = 718 718 50 50 00000	CW	(AB-J)
M14	18041	7-4	0500	Fri	952 738 738 50 50 = = 12423 88844 82397 ... 10288 69450 61340 = = 738 738 50 50 00000	CW	(AB-NZL)
M14	5944	7-4	1700	Fri	382 382 382 00000	CW	(HFD)
M14	5477	7-4	1800	Fri	382 382 382 00000	CW	(HFD)
M14	5430	8-4	0800	Sat	171 490 490 91 91 52378 90126 42876 ... 73809 62841 32465 490 490 490 91 91 00000	CW	(AB-RUS/ES)
M14	5560	8-4	0900	Sat	171 490 490 91 91 52378 90126 42876 ... 73809 62841 32465 490 490 490 91 91 00000	CW	(AB-RUS/ES)
M14	5240	9-4	2300	Sun	376 ...	CW	(AB)
M14	5825	10-4	0000	Mon	376 ...	CW	(AB)
M14	17458	10-4	0930	Mon	617 617 617 00000	CW	(AB/ES)
M14	18041	12-4	0500	Wed	952 814 814 60 60 = = 52611 48558 36313 ... 53140 14251 10708 = = 814 814 60 60 00000	CW	(AB-J)
M14	5469	12-4	1920	Wed	537 (R) 518 518 86 86 32498 53900 12865 ... 20943 57286 61220 518 518 86 86 00000	CW	(AB/MPJ)
M14	18041	14-4	0500	Fri	952 784 784 60 60 93577 69242 82470 ... 72792 63649 37033 = = 784 784 60 60 00000	CW	(AB-J)
M14	5430	15-4	0800	Sat	171 184 59 13253 26472 48950 ... 49653 12311 84502 184 59 00000	CW	(AB/ES)
M14	5560	15-4	0900	Sat	171 184 59 13253 26472 48950 ... 49653 12311 84502 184 59 00000	CW	(AB/ES)
M14	5240	16-4	2300	Sun	376 184 59 13253 26472 48950 ... 49653 12311 84502 184 59 00000	CW	(AB)
M14	5825	17-4	0000	Mon	376 184 59 13253 26472 48950 ... 49653 12311 84502 184 59 00000	CW	(AB)
M14	4635	18-4	1600	Tue	273 273 273 00000	CW	(AB-RUS)
M14	5475	20-4	1800	Thu	463 868 868 30 30 = = 51501 17849 41898 ... 50411 84904 84912 = = 868 868 30 30 000	CW	(AB/MPJ/ES)
M14	5430	22-4	0800	Sat	171 184 59 13253 26472 48950 ... 49653 12311 84502 184 59 00000	CW	(AB)
M14	5560	22-4	0900	Sat	171 184 59 13253 26472 48950 ... 49653 12311 84502 184 59 00000	CW	(ES)
M14	6818	23-4	0600	Sun	382 382 382 00000	CW	(AB)
M14	17458	25-4	0930	Tue	617 617 617 00000	CW	(ES-RUS)
M14	5463	26-4	1920	Wed	537 518 518 86 86 32498 53900 12865 ... 20943 57286 61220 518 518 86 86 00000	CW	(AB/MPJ)
M14	5440	29-4	0800	Sat	171 025 025 30 30 34253 75648 07912 ... 25634 75624 70689 025 025 30 30 00000	CW	(AB-RUS/ES)
M14	5570	29-4	0900	Sat	171 025 025 30 30 34253 75648 07912 ... 25634 75624 70689 025 025 30 30 00000	CW	(AB-RUS/ES)

M14	5240	30-4	2300	Sun	376 184 184 59 59 13253 26472 48950 ... 49653 12311 84502 184 184 59 59 00000	CW	(AB)
M21	4202.5	2-4	0411	Sun	9623868099102 962586869391 EEEEE 9625868693 902 96278682 93402 962486103 8102 9629868092904	CW	(F5JBR)
M21	4416	9-4	1821	Sun	=992120??0???? =992121??0???? =992122??0???? =992123??0????	CW	(F5JBR-J)
M21	4601	10-4	1632	Mon	1920082300000 834663092 5131009001930 4334811 0083466203934	CW	(F5JBR-J)
M21	4391	13-4	1615	Thu	=991916??0???? =991917??0???? =991918??0????	CW	(AB-RUS)
M22	6607	6-4	1708	Thu	VVV DE 4XZ 4XZ = =	CW	(AB)
M22	7455	12-4	1803	Wed	4XZ clg and messages //8319 kHz	CW	(F5JBR-J)
M22	8319	12-4	1803	Wed	4XZ clg and messages //7455 kHz	CW	(F5JBR-J)
M22	4331	13-4	1610	Thu	VVV DE 4XZ 4XZ = =	CW	(AB-RUS)
M22	8319	13-4	2304	Thu	4XZ Israeli Navy, Haifa with short 5LGs messages	CW	(MCO)
M22	8319	15-4	1657	Sat	VVV DE 4XZ 4XZ = =	CW	(AB)
M22	8319	17-4	0648	Mon	VVV DE 4XZ 4XZ = =	CW	(AB)
M22	8319	17-4	1542	Mon	VVV DE 4XZ 4XZ = =	CW	(BvR)
M32	3954.5	2-4	0448	Sun	XXX U624 MAJORAN 0563 K	CW	(F5JBR)
M32	2217	3-4	0333	Mon	XXX E5W7 de T6BI 55555 55555 = 00900 00900 (x2) and R ? K	CW	(F5JBR)
M32	2217	3-4	0333	Mon	XXX E5W7 de T6BI 55555 55555 = 00900 00900 (x2) and R ? K	CW	(F5JBR)
M32	3954.5	3-4	0448	Mon	XXX U624 MAJORAN 0563 K	CW	(F5JBR)
M32	7767	10-4	0424	Mon	XXX ONM6 BOK 3551 K	CW	(F5JBR-J)
M32	7785	11-4	0620	Tue	i.p. 5401 = 3301 = 1774 = 4584 = 6526 = 4777 = 0047 = 1524 = 0014 = 1483 = 7928 = 8252 = 4762 = 4075 = 4895 = 5817 = 8090 = 1125 K	CW	(F5JBR-J)
M32	7421	11-4	0705	Tue	XXX LW6T AWANSE 985 K	CW	(F5JBR-J)
M32	7785	11-4	0712	Tue	LW6T = 5045 = 4204 = 9438 = 9234 = 1700 = 6484 = 8502 = 5678 = 9616 ... 4092 = 9282 = 2730 = 11126 K	CW	(F5JBR-J)
M32	7759	13-4	0611	Thu	OMN6 DE RR7X QTC NR 4748 AA = 4474 AA = 1954 AAA = 0137 AA ...	CW	(F5JBR-J)
M32	7759	13-4	0625	Thu	XXX OZERO 34118 XXX OZERO 3418 K. OMN6 DE RR7X RR7X == LEWKO AA 1269 K. OMN6 DE à. XXX KAPKAN 1214 K	CW	(F5JBR-J)
M32	7759	13-4	0758	Thu	XXX ANKETA 7267 K. DE RR7X R AA = DOBLADE 4108 K	CW	(F5JBR-J)
M32	7759	13-4	0809	Thu	OMN6 DE RR7X QTC NR 3036 AA OMN6 AA K. RR7X AA = 8235 AA = 8553 AA = ... = 6615 AA = 0132 AA = 13205 K	CW	(F5JBR-J)
M32	7759	13-4	0915	Thu	XXX KALIBR 3062 K	CW	(F5JBR-J)
M32	10683	14-4	1219	Fri	XXX XXX LNUC LNUC 85955 RAVODVAZ 4999 6170 on 10683//12688//13443 kHz	CW	(JU)
M32	12688	14-4	1219	Fri	XXX XXX LNUC LNUC 85955 RAVODVAZ 4999 6170 on 10683//12688//13443 kHz	CW	(JU)
M32	13443	14-4	1219	Fri	XXX XXX LNUC LNUC 85955 RAVODVAZ 4999 6170 on 10683//12688//13443 kHz	CW	(JU)
M32	10683	14-4	1232	Fri	XXX XXX LNUC LNUC 36611 KLIOeOMEe 4478 7169 on 10683//12688//13443 kHz	CW	(JU)
M32	12688	14-4	1232	Fri	XXX XXX LNUC LNUC 36611 KLIOeOMEe 4478 7169 on 10683//12688//13443 kHz	CW	(JU)
M32	13443	14-4	1232	Fri	XXX XXX LNUC LNUC 36611 KLIOeOMEe 4478 7169 on 10683//12688//13443 kHz	CW	(JU)
M32	10683	14-4	1233	Fri	XXX XXX LNUC LNUC 18953 ROWOSTIH 5831 4768 PUDLINGOWYJ 8318 0823 TOROOeUM 5354 9851 on 10683//12688//13443 kHz	CW	(JU)
M32	12688	14-4	1233	Fri	XXX XXX LNUC LNUC 18953 ROWOSTIH 5831 4768 PUDLINGOWYJ 8318 0823 TOROOeUM 5354 9851 on 10683//12688//13443 kHz	CW	(JU)
M32	13443	14-4	1233	Fri	XXX XXX LNUC LNUC 18953 ROWOSTIH 5831 4768 PUDLINGOWYJ 8318 0823 TOROOeUM 5354 9851 on 10683//12688//13443 kHz	CW	(JU)
M32	12605	14-4	1350	Fri	HKSX HKSX HKSX DE PRND PRND K K	CW	(AB)
M32	10987	16-4	1130	Sun	B129 B129 DE MVIA K. MZHM MZHM DE MVIA K. IVV9 IVV9 DE MVIA K. PNX4 PNX4 DE MVIA K. I12X	CW	(RL)

					II2X DE MVIA K. NLBA? DE MVIA K		
M32a	6458	3-4	0445	Mon	XXX RLO ELASTIONYJ 01 1295 0731 K	CW	(F5JBR)
M32a	7632	5-4	1021	Wed	i.p. RJS 954 23 5 1310 954 = 672 = .DN.C MMMMM UDF\OB KEILQ ...	CW	(JPL-NZL)
M32a	7602	5-4	1536	Wed	RLO DE RIT QTC 437 36 5 1833 437 = PROGNOZ POGODY S 19 'OSTOW 5 APREL\A DO 19 'OASTOW 6 APREL\A RAJONY ...	CW	(JPL-NZL)
M32a	7632	5-4	1914	Wed	VVV RMEG DE RJS QSA ? K. VVV RHY75 DE RJS QSA ? K. VVV RFE78 DE RJS QSA ? K	CW	(JPL-NZL)
M32a	2558	17-4	1807	Mon	RCJO wkg RJD52 (QTC SML 197 20 17 2105 197 = FM RCJO FOR RJD52 RJD88 = WWHH/ 17181 99454 10478 ... 88000 80000 17016 = AR RCJO K	CW	(F5JBR-J)
M32a	3796	18-4	1641	Tue	RCV: Russian Navy Sevastopol, weather i.p. SEWERO ZAPADNYJ ZAPADNYJ 7/10 PORYWY 12 MORE 3 UTROM DNEM 4 W KONCE SROKA 2/3 MESTAMI ...	CW	(AB)
M32a	9145	20-4	1821	Thu	i.p. RIW QSV K. RMFE DE RIW QSA 1 QSV K	CW	(JPL-NZL)
M32b	8816	7-4	0715	Fri	rjf94 rjc38 de 42112 qto. 0700 qrd XUMU XLRKE QRE 0900 qbd 0415 k. qth 15231 14041 qtr 0811 qre XUMU 0855 k. qqm XUMU 0848 sk	CW	(WP3)
M32b	8816	7-4	1101	Fri	rjf94 rjc38 de 42112 qto. 1045 qrd XLMV XUMU qre 1250 qbd 0415 k. qay XLPB 1152 qre XLMV 1300 k. qqm XLMV 1302 sk	CW	(WP3)
M32b	8816	7-4	1312	Fri	rjf94 rjc38 de 75275 qto. 1300 qrd XLMV XLLV qbd 0600 qre 1510 k. qql ULPE 1402 qbd 0500 qre 1505 k. qqm XLMV 1505	CW	(WP3)
M32c	8029	4-4	0940	Tue	W-markers: Tu-95MS Bear H net	CW	(Tom)
M32c	8029	6-4	0820	Thu	W-markers: Tu-95MS Bear H net	CW	(Tom)
M32c	8029	10-4	0641	Mon	W-marker: Tu-95MS Bear H net	CW	(SP1)
M32c	8029	10-4	0920	Mon	W-marker: Tu-95MS Bear H net	CW	(Tom)
M32c	8029	12-4	0640	Wed	2QLC 2QLC 2QLC DE TL5 TRL5 K	CW	(SP1)
M32c	8029	12-4	0647	Wed	= 486 240 457 107 306 305 .. 55 705 K	CW	(SP1)
M32c	8029	12-4	0940	Wed	W-markers: Tu-95MS Bear H net	CW	(Tom)
M32c	8029	14-4	0600	Fri	W-markers: Tu-95MS Bear H net	CW	(Tom)
M32c	8029	24-4	0920	Mon	W-markers: Tu-95MS Bear H net	CW	(Tom)
M32c	8029	26-4	0800	Wed	W-markers: Tu-95MS Bear H net	CW	(Tom)
M32c	8029	27-4	1200	Thu	W-markers: Tu-95MS Bear H net	CW	(Tom)
M41	7988.5	13-4	0802	Thu	T53U wkg 4 outstations. QJR ? WZD	CW	(F5JBR-J)
M42	13372	5-4	0935	Wed	Russian diplo/intel i.p.	MFSK-80/250bd BPSK	(AB)
M42	16350. 6	6-4	1215	Thu	Russian diplo/intel i.p.	MFSK-80/250bd BPSK	(AAI)
M42	14397. 5	6-4	1346	Thu	Russian diplo/intel i.p.	MFSK-80/250bd BPSK	(AB)
M42	14447. 5	7-4	1520	Fri	Russian diplo/intel i.p.	MFSK-80/250bd BPSK	(AB)
M42	11063. 5	7-4	1530	Fri	Russian diplo/intel i.p.	MFSK-80/250bd BPSK	(AB)
M42	12215. 5	8-4	0750	Sat	Russian diplo/intel i.p.	MFSK-80/250bd BPSK	(AB)
M42	12189. 5	11-4	1651	Tue	Russian diplo/intel i.p.	MFSK-80/250bd BPSK	(AB)
M42	7581.5	14-4	0637	Fri	Russian diplo/intel i.p.	MFSK-80/250bd BPSK	(AB)
M42	9083	15-4	0600	Sat	Russian diplo/intel. Started at 0600z, ends 0620z	MFSK-80/250bd BPSK	(AB)
M42	11151. 5	15-4	1713	Sat	Russian diplo/intel. i.p.	MFSK-80/250bd BPSK	(AB)
M42	11063	15-4	1715	Sat	Russian diplo/intel. i.p.	MFSK-80/250bd BPSK	(AB)
M42	15897	17-4	0900	Mon	Russian diplo/intel	MFSK-80/250bd BPSK	(Danix)
M42	20552	17-4	0900	Mon	Russian diplo/intel	MFSK-80/250bd BPSK	(Danix)
M42	13372	17-4	0930	Mon	Russian diplo/intel	MFSK-80/250bd BPSK	(Danix)
M42	13372	17-4	0933	Mon	Russian diplo/intel i.p.	MFSK-80/250bd BPSK	(AB)

M42	12137	17-4	1000	Mon	Russian diplo/intel	MFSK-80/250bd BPSK	(Danix)
M42	19598	17-4	1000	Mon	Russian diplo/intel	MFSK-80/250bd BPSK	(Danix)
M42	10172	18-4	1345	Tue	Russian diplo/intel i.p.	MFSK-80/250bd BPSK	(Dan)
M42	11560	22-4	0635	Sat	Russian Intel i.p.	MFSK-80/250bd BPSK	(AB)
M42	10212. 5	22-4	1700	Sat	Russian Intel.	MFSK-80/250bd BPSK	(AB)
M42	11151	24-4	1705	Mon	Russian Intel i.p. Ends 1722 UTC	MFSK-80/250bd BPSK	(AB)
M42b	12220	1-4	0402	Sat	Header: 11100 90105 00000 01195 01003	CW	(F5JBR)
M42b	6977	12-4	1722	Wed	PKNV DE P84O QSA NO QSY 95643 K	CW	(F5JBR-J)
M42b	7409	13-4	0924	Thu	2PIU de 5V4R QSY 63020 OK CFM QSW K	CW	(F5JBR-J)
M42b	5430	13-4	1325	Thu	i.p. =100= separator	FSK 50/500	(tiNG)
M42b	10218	22-4	0530	Sat	K4MT wkg NT9P. Message in FSK 50/500, opchat: QRU NIL SK	CW	(F5JBR-J)
M51a	6825	21-4	1907	Fri	FAV22: French Morse Lessons	CW	(MPJ)
M89	6779	3-4	1451	Mon	i.p. 3D4A 77DT DU47 U5N6 ... III 6D34 AR K. R U GA K. R R RPT K. R GA K	CW	(JPL)
M89	4847	3-4	1458	Mon	V Z4RQ DE 3WRX	CW	(JPL)
M89	4781	3-4	1459	Mon	i.p. TAD4 DN7T D37T UDTT N5A5 ... III HR 13P GA = 73T3 475. 47AD 653D ...	CW	(JPL)
M89	4141	3-4	1528	Mon	i.p. 53AT 5UN5 TUN7 DN4D 3D6N 4U7	CW	(JPL)
M89	3777	3-4	1530	Mon	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	3-4	1530	Mon	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	3642	3-4	1537	Mon	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	3-4	1537	Mon	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4847	3-4	1649	Mon	V Z4RQ DE 3WRX	CW	(JPL)
M89	10180	4-4	0951	Tue	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	10253	4-4	0955	Tue	V Z4RQ DE 3WRX (IP - New R/S	CW	(JPL)
M89	9260	4-4	1000	Tue	i.p. N6UU D645 D4N6 AA7T DA4U TT67 ... K K (see N&O 235)	CW	(JPL)
M89	6840	4-4	1020	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//10640	CW	(JPL)
M89	10640	4-4	1020	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840	CW	(JPL)
M89	3777	4-4	1027	Tue	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	4-4	1027	Tue	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	8350	4-4	1030	Tue	VVV WNF DE FXM QSA ? QSV K	CW	(JPL)
M89	6840	4-4	1120	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//10640	CW	(JPL)
M89	10640	4-4	1120	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840	CW	(JPL)
M89	4847	4-4	1229	Tue	V Z4RQ DE 3WRX	CW	(JPL)
M89	4532	4-4	1235	Tue	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4720	4-4	1430	Tue	VVV WNF DE FXM QSA ? QSV K //5150	CW	(JPL)
M89	5150	4-4	1430	Tue	VVV WNF DE FXM QSA ? QSV K //4720	CW	(JPL)
M89	5678	4-4	1433	Tue	i.p. 5T366 AR OR AJOJARAL OK I. 19W 4U..OK ...35W = 45654 OK OK	CW	(JPL)
M89	4860	4-4	1520	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840	CW	(JPL)
M89	6840	4-4	1520	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//4860	CW	(JPL)
M89	4720	4-4	1530	Tue	VVV WNF DE FXM QSA ? QSV K //5150	CW	(JPL)
M89	5150	4-4	1530	Tue	VVV WNF DE FXM QSA ? QSV K //4720	CW	(JPL)
M89	4847	4-4	1534	Tue	V Z4RQ DE 3WRX	CW	(JPL)
M89	4131	4-4	1902	Tue	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	3642	4-4	1904	Tue	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	4860	4-4	1920	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840	CW	(JPL)
M89	6840	4-4	1920	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//4860	CW	(JPL)
M89	3777	4-4	2235	Tue	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	10253	6-4	1006	Thu	V Z4RQ (x3) DE 3WRX (x2)	CW	(JPL)
M89	5801	6-4	1008	Thu	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	10180	6-4	1008	Thu	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	3777	6-4	1010	Thu	V M8JF (x3) DE RIS9 (x2) //4532 and 8060	CW	(JPL)
M89	4532	6-4	1010	Thu	V M8JF (x3) DE RIS9 (x2) //3777 and 8060	CW	(JPL)
M89	8060	6-4	1010	Thu	V M8JF (x3) DE RIS9 (x2) //4532 and 3777	CW	(JPL)
M89	6840	6-4	1020	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//10640	CW	(JPL)
M89	10640	6-4	1020	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840	CW	(JPL)
M89	4131	6-4	1513	Thu	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	3642	6-4	1514	Thu	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)

M89	7602	6-4	1514	Thu	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4834	6-4	1518	Thu	V Z4RQ (x3) DE 3WRX (x2) Note: New frequency for this R/S.	CW	(JPL)
M89	4860	6-4	1520	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840	CW	(JPL)
M89	6840	6-4	1520	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//4860	CW	(JPL)
M89	4720	6-4	1530	Thu	VVV WNF DE FXM QSA ? QSV K //5150	CW	(JPL)
M89	5150	6-4	1530	Thu	VVV WNF DE FXM QSA ? QSV K //4720	CW	(JPL)
M89	5725	6-4	1530	Thu	i.p. N65A DT64 N4D5 TU3D TTT6 6A73 ... AR HR NR 116 EE C NR 116	CW	(JPL)
M89	4860	6-4	1720	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840	CW	(JPL)
M89	6840	6-4	1720	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//4860	CW	(JPL)
M89	4834	6-4	1725	Thu	V Z4RQ (x3) DE 3WRX (x2)	CW	(JPL)
M89	3777	6-4	1727	Thu	V M8JF (x3) DE RIS9 (x2) //4532 and 8060	CW	(JPL)
M89	4532	6-4	1727	Thu	V M8JF (x3) DE RIS9 (x2) //3777 and 8060	CW	(JPL)
M89	3642	6-4	1730	Thu	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	4720	6-4	1730	Thu	VVV WNF DE FXM QSA ? QSV K //5150	CW	(JPL)
M89	5150	6-4	1730	Thu	VVV WNF DE FXM QSA ? QSV K //4720	CW	(JPL)
M89	7602	6-4	1730	Thu	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	10253	7-4	0758	Fri	V Z4RQ (x3) DE 3WRX (x2)	CW	(JPL)
M89	10415	7-4	0807	Fri	i.p. T5U3 U37A T7UT ...	CW	(JPL)
M89	6793	7-4	0816	Fri	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	8060	7-4	0816	Fri	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	10640	7-4	0820	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)	CW	(JPL)
M89	5801	7-4	1214	Fri	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	10180	7-4	1214	Fri	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	6840	7-4	1220	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//10640	CW	(JPL)
M89	10640	7-4	1220	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840	CW	(JPL)
M89	3777	7-4	1225	Fri	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	7-4	1225	Fri	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4847	7-4	1227	Fri	V Z4RQ (x3) DE 3WRX (x2)	CW	(JPL)
M89	3642	7-4	1750	Fri	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	7-4	1750	Fri	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	10180	8-4	0226	Sat	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	10180	8-4	1105	Sat	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3777	8-4	1106	Sat	V M8JF (x3) DE RIS9 (x2) 4532	CW	(JPL)
M89	4532	8-4	1106	Sat	V M8JF (x3) DE RIS9 (x2) 3777	CW	(JPL)
M89	4847	8-4	1135	Sat	V Z4RQ (x3) DE 3WRX (x2)	CW	(JPL)
M89	6793	9-4	0440	Sun	M8JF (x3) de RIS9 (x2) V //8060	CW	(F5JBR-J)
M89	8060	9-4	0440	Sun	M8JF (x3) de RIS9 (x2) V //6793	CW	(F5JBR-J)
M89	3777	9-4	1620	Sun	M8JF (x3) de RIS9 (x2) V //4532	CW	(F5JBR-J)
M89	4532	9-4	1620	Sun	M8JF (x3) de RIS9 (x2) V //3777	CW	(F5JBR-J)
M89	3642	9-4	1655	Sun	DKG6 (x3) de 3A7D (x2) V //7600	CW	(F5JBR-J)
M89	7600	9-4	1655	Sun	DKG6 (x3) de 3A7D (x2) V //3642	CW	(F5JBR-J)
M89	3642	9-4	1736	Sun	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3777	9-4	1737	Sun	V M8JF (x3) DE RIS9 (x2) 4532	CW	(JPL)
M89	4532	9-4	1737	Sun	V M8JF (x3) DE RIS9 (x2) 3777	CW	(JPL)
M89	4847	9-4	1738	Sun	V Z4RQ (x3) DE 3WRX (x2)	CW	(JPL)
M89	3850	9-4	1822	Sun	Q2M (x3) de NYZ (x2) VVV //4620	CW	(F5JBR-J)
M89	4620	9-4	1822	Sun	Q2M (x3) de NYZ (x2) VVV //3850	CW	(F5JBR-J)
M89	4847	9-4	1826	Sun	Z4RQ (x3) de 3WRX (x2) V	CW	(F5JBR-J)
M89	3777	10-4	0954	Mon	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	10-4	0954	Mon	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	10253	10-4	0955	Mon	V Z4RQ (x3) DE ORX (x2)	CW	(JPL)
M89	10180	10-4	0958	Mon	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	6840	10-4	1020	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//10640	CW	(JPL)
M89	10640	10-4	1020	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840	CW	(JPL)
M89	8350	10-4	1030	Mon	V WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4847	10-4	1101	Mon	V Z4RQ (x3) DE ORX (x2)	CW	(JPL)
M89	6840	10-4	1120	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//10640	CW	(JPL)
M89	10640	10-4	1120	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840	CW	(JPL)
M89	8350	10-4	1130	Mon	V WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	5801	10-4	1155	Mon	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	10180	10-4	1155	Mon	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	3642	10-4	1858	Mon	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	10-4	1858	Mon	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4847	10-4	1901	Mon	V BTGU (x3) DE GR4W (x2)	CW	(JPL)
M89	4842	10-4	1907	Mon	R QSA 2 K H JELF RPT K WTLN IEC = = 5933 AR K	CW	(JPL)

M89	4860	10-4	1920	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840	CW	(JPL)
M89	6840	10-4	1920	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//4860	CW	(JPL)
M89	10640	10-4	2320	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//N/H	CW	(JPL)
M89	6793	10-4	2333	Mon	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	8060	10-4	2333	Mon	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	6793	11-4	0322	Tue	M8JF (x3) de RIS9 (x2) V //8060	CW	(F5JBR-J)
M89	8060	11-4	0322	Tue	M8JF (x3) de RIS9 (x2) V //6793	CW	(F5JBR-J)
M89	10253	11-4	0745	Tue	V BTGU (x3) DE GR4W (x2)	CW	(JPL)
M89	5801	11-4	1213	Tue	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	10180	11-4	1213	Tue	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	3777	11-4	1214	Tue	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	11-4	1214	Tue	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4847	11-4	1216	Tue	V BTGU (x3) DE GR4W (x2)	CW	(JPL)
M89	5165	11-4	1216	Tue	i.p. 62U = A6DA AR K. R R 65W = N.56 AR K. 86W = U.5A AR K	CW	(JPL)
M89	4131	11-4	1524	Tue	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4847	11-4	1526	Tue	V 6TGU (x3) DE GR4W (x2)	CW	(JPL)
M89	3642	11-4	1528	Tue	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	11-4	1528	Tue	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4847	11-4	1650	Tue	6TGU (x3) de GR4W (x2) V	CW	(F5JBR-J)
M89	3642	11-4	1707	Tue	DKG6 (x3) de 3A7D (x2) V //7602	CW	(F5JBR-J)
M89	7602	11-4	1707	Tue	DKG6 (x3) de 3A7D (x2) V //3642	CW	(F5JBR-J)
M89	3777	12-4	0930	Wed	V M8JF (x3) DE RIS9 (x2) //4532, 6793, and 8060	CW	(JPL)
M89	4532	12-4	0930	Wed	UGT COMM = 802/3459/5060/04/12/1800/003/A AR V M8JF (x3) DE RIS9 (x2) //3777//6793/8060	CW	(JPL)
M89	6793	12-4	0930	Wed	V M8JF (x3) DE RIS9 (x2) //3777, 4532, and 8060	CW	(JPL)
M89	8060	12-4	0930	Wed	V M8JF (x3) DE RIS9 (x2) //3777, 4532, and 6793	CW	(JPL)
M89	10253	12-4	0936	Wed	V 6TGU (x3) DE GR4W (x2)	CW	(JPL)
M89	10180	12-4	1102	Wed	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	4847	12-4	1105	Wed	V 6TGU (x3) DE GR4W (x2)	CW	(JPL)
M89	3642	12-4	1533	Wed	i.p. RMKS 1329 TO 10171.41.. 8 15. 1174 08731 0931309 = D376 AD5. 7T4N 3TA6 ... //7602	CW	(JPL)
M89	7602	12-4	1533	Wed	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4847	12-4	1542	Wed	V 6TGU (x3) DE GR4W (x2)	CW	(JPL)
M89	3777	12-4	1630	Wed	M8JF (x3) de RIS9 (x2) V //4532	CW	(F5JBR-J)
M89	4532	12-4	1630	Wed	M8JF (x3) de RIS9 (x2) V //3777	CW	(F5JBR-J)
M89	7759	13-4	0752	Thu	QV4D DE DE DS5C K. HR NR 3284/EX 1663 RMKS 1517 TO 1573 KK QV4D DE DE DS5C GA R R	CW	(F5JBR-J)
M89	10253	13-4	0928	Thu	V 6TGU (x3) DE GR4W (x2)	CW	(JPL)
M89	10180	13-4	0929	Thu	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	8350	13-4	0930	Thu	VVV WNF DE FXM QSA ? QSV K	CW	(JPL)
M89	3777	13-4	0933	Thu	V M8JF (x3) DE RIS9 (x2) //4532, 6793, and 8060	CW	(JPL)
M89	4532	13-4	0933	Thu	V M8JF (x3) DE RIS9 (x2) //3777, 6793, and 8060	CW	(JPL)
M89	6793	13-4	0933	Thu	V M8JF (x3) DE RIS9 (x2) //3777, 4532, and 8060	CW	(JPL)
M89	8060	13-4	0933	Thu	V M8JF (x3) DE RIS9 (x2) //3777, 4532, and 6793	CW	(JPL)
M89	6840	13-4	1020	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//10640	CW	(JPL)
M89	10640	13-4	1020	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840	CW	(JPL)
M89	4847	13-4	1435	Thu	6TGU (x3) de GR4W (x2) V	CW	(F5JBR-J)
M89	3777	13-4	1441	Thu	M8JF (x3) de RIS9 (x2) V //4532	CW	(F5JBR-J)
M89	4532	13-4	1441	Thu	M8JF (x3) de RIS9 (x2) V //3777	CW	(F5JBR-J)
M89	4307	13-4	1443	Thu	G7GY DE 6TLT K. G7GY DE 6TLT R GA G7GY DE 6TLT R QSL 2251 K	CW	(F5JBR-J)
M89	3642	13-4	1449	Thu	M8JF (x3) de RIS9 (x2) V //DKG6 (x3) de 3A7D (x2) V	CW	(F5JBR-J)
M89	3642	13-4	1458	Thu	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	13-4	1458	Thu	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4847	13-4	1459	Thu	V 6TGU (x3) DE GR4W (x2)	CW	(JPL)
M89	4131	13-4	1501	Thu	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4326	13-4	1520	Thu	DE SCFH QSA 3 K. VVV QAK1 DE SCFH QSA 3 K. QAK1 DE SCFH R RPT K. QAK1 DE SCFH TY KL AA HR NR 413 K	CW	(F5JBR-J)
M89	4860	13-4	1520	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840	CW	(JPL)
M89	6840	13-4	1520	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//4860	CW	(JPL)
M89	10253	14-4	0853	Fri	V 6TGU (x3) DE GR4W (x2)	CW	(JPL)
M89	6840	14-4	0920	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//10640	CW	(JPL)
M89	10640	14-4	0920	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840	CW	(JPL)
M89	8350	14-4	0930	Fri	VVV WNF DE FXM QSA ? QSV K	CW	(JPL)
M89	10180	14-4	0942	Fri	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)

M89	3642	14-4	1447	Fri	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	14-4	1447	Fri	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	3777	14-4	1449	Fri	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	14-4	1449	Fri	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4847	14-4	1450	Fri	V 6TGU (x3) DE GR4W (x2)	CW	(JPL)
M89	4131	14-4	1632	Fri	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	10253	15-4	0858	Sat	V 6TGU (x3) DE GR4W (x2)	CW	(JPL)
M89	4532	15-4	0859	Sat	V M8JF (x3) DE RIS9 (x2) //6793 and 8060	CW	(JPL)
M89	6793	15-4	0859	Sat	V M8JF (x3) DE RIS9 (x2) //4532 and 8060	CW	(JPL)
M89	8060	15-4	0859	Sat	V M8JF (x3) DE RIS9 (x2) //4532 and 6793	CW	(JPL)
M89	7714	15-4	0902	Sat	i.p. 34TN 3KK4 7TDU35T 3AUN à / à AR K. GA OK OK RR QSL 1709 1709 VA VA	CW	(JPL-NZL)
M89	8076	15-4	0902	Sat	i.p. GA K. QSL 1705 1705 HR MSG K. HR MSG GA K. RR HR MSG NR NR 4795 CK41 17 04 15 1700 RMKS 1668 TO 0208 K (QX 7714 kHz)	CW	(JPL-NZL)
M89	6840	15-4	0920	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//10640	CW	(JPL)
M89	10640	15-4	0920	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840	CW	(JPL)
M89	8350	15-4	0930	Sat	VVV WNF DE FXM QSA ? QSV K	CW	(JPL)
M89	10180	15-4	0932	Sat	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	4847	15-4	1351	Sat	V 6TGU (x3) DE GR4W (x2)	CW	(JPL)
M89	3642	15-4	1352	Sat	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3777	15-4	1353	Sat	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	15-4	1353	Sat	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	5461	15-4	1442	Sat	i.p. R MSG NR 19 CK 211 22 0415 1210 RMKS 8660 TO 6090 K	CW	(JPL)
M89	4387	15-4	1459	Sat	i.p. RPT K R R 95. = 6UN4 6UN4 K = RPT K R	CW	(JPL)
M89	4392	15-4	1503	Sat	i.p. II K GA R (Other station also on this frequency) = 7D44 3T6. ND4U 33TT ...	CW	(JPL)
M89	4433	15-4	1503	Sat	i.p. AR H AR H	CW	(JPL)
M89	4131	15-4	1812	Sat	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4532	15-4	2311	Sat	V M8JF (x3) DE RIS9 (x2) //6793 and 8060	CW	(JPL)
M89	6793	15-4	2311	Sat	V M8JF (x3) DE RIS9 (x2) //4532 and 8060	CW	(JPL)
M89	8060	15-4	2311	Sat	V M8JF (x3) DE RIS9 (x2) //4532 and 6793	CW	(JPL)
M89	10253	16-4	1058	Sun	V Z4RQ (x3) DE 3WRX (x2)	CW	(JPL)
M89	10180	16-4	1100	Sun	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	6782	16-4	1114	Sun	i.p. 7NDD AA.4 N76A .AAN ... AR K K RPT 2P 05W K (see N&O 235)	CW	(JPL)
M89	6840	16-4	1120	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//10640	CW	(JPL)
M89	10640	16-4	1120	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840	CW	(JPL)
M89	3777	16-4	1123	Sun	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	16-4	1123	Sun	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4847	16-4	1129	Sun	V Z4RQ (x3) DE 3WRX (x2) VV NR 06. CK 59. 14 0417 .AAA = 56DT ...	CW	(JPL)
M89	8350	16-4	1130	Sun	VVV WNF DE FXM QSA ? QSV K	CW	(JPL)
M89	5566	16-4	1433	Sun	i.p. RMKS 6235 TO 6491 K R HR C R RR HT TC PTBL ? K K (see N&O 235)	CW	(JPL)
M89	4847	16-4	1605	Sun	V Z4RQ (x3) DE 3WRX (x2) VV NR 06. CK 59. 14 0417 .AAA = 56DT ...	CW	(JPL)
M89	4620	16-4	1920	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//4860 and 6840	CW	(JPL)
M89	4860	16-4	1920	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//4620 and 6840	CW	(JPL)
M89	6840	16-4	1920	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//4860 and 4620	CW	(JPL)
M89	5255	16-4	1926	Sun	Z2VW i.p. 5NT7 4N6A 4653 7D34 63A5 ... AR (see N&O 235)	CW	(JPL)
M89	10253	17-4	0915	Mon	V Z4RQ (x3) DE 3WRX (x2) Note: Switched to 4847 at 1100z	CW	(JPL)
M89	6793	17-4	0917	Mon	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	8060	17-4	0917	Mon	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	6840	17-4	0920	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//10640	CW	(JPL)
M89	10640	17-4	0920	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840	CW	(JPL)
M89	6840	17-4	1020	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//10640	CW	(JPL)
M89	10640	17-4	1020	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840	CW	(JPL)
M89	8350	17-4	1030	Mon	VVV WNF DE FXM QSA ? QSV K	CW	(JPL)
M89	10253	17-4	1059	Mon	V Z4RQ (x3) DE 3WRX (x2) Note: Switched to 4847 at 1100z	CW	(JPL)

M89	4847	17-4	1100	Mon	V Z4RQ (x3) DE 3WRX (x2	CW	(JPL)
M89	6840	17-4	1120	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//10640	CW	(JPL)
M89	10640	17-4	1120	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840	CW	(JPL)
M89	8350	17-4	1130	Mon	VVV WNF DE FXM QSA ? QSV K	CW	(JPL)
M89	4186	17-4	1427	Mon	i.p. 436T TD37 N.3U 7NU5 ... RPT 1P .. K SK SK GB	CW	(JPL)
M89	4720	17-4	1430	Mon	VVV WNF DE FXM QSA ? QSV K //5150	CW	(JPL)
M89	5150	17-4	1430	Mon	VVV WNF DE FXM QSA ? QSV K //4270	CW	(JPL)
M89	3777	17-4	1431	Mon	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	17-4	1431	Mon	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	10253	18-4	0950	Tue	V Z4RQ (x3) DE 3WRX (x2)	CW	(JPL)
M89	3777	18-4	0951	Tue	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	18-4	0951	Tue	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	10180	18-4	0953	Tue	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	7123	18-4	1008	Tue	C4LS DE Z2VW K. R DE D1EV K. R QSA 2 QSA ? K (see N&O 235)	CW	(JPL)
M89	3642	18-4	1448	Tue	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	18-4	1448	Tue	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4847	18-4	1454	Tue	V Z4RQ (x3) DE 3WRX (x2)	CW	(JPL)
M89	10253	19-4	0719	Wed	V Z4RQ (x3) DE 3WRX (x2)	CW	(JPL)
M89	10640	19-4	0720	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)	CW	(JPL)
M89	6793	19-4	0728	Wed	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	8060	19-4	0728	Wed	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	4720	19-4	1530	Wed	VVV WNF DE FXM QSA ? QSV K //5150	CW	(JPL)
M89	3642	19-4	1531	Wed	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	19-4	1531	Wed	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	3777	19-4	1536	Wed	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	19-4	1536	Wed	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	3777	21-4	1729	Fri	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	21-4	1729	Fri	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4720	21-4	1730	Fri	VVV WNF DE FXM QSA ? QSV K //5150	CW	(JPL)
M89	5150	21-4	1730	Fri	VVV WNF DE FXM QSA ? QSV K //4270	CW	(JPL)
M89	3642	21-4	1733	Fri	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	21-4	1733	Fri	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4847	21-4	1735	Fri	V Z4RQ (x3) DE 3WRX (x2)	CW	(JPL)
M89	4131	21-4	1739	Fri	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	6793	22-4	0533	Sat	M8JF (x3) de RIS9 (x2) V //8060 kHz	CW	(F5JBR-J)
M89	8060	22-4	0533	Sat	M8JF (x3) de RIS9 (x2) V //6793 kHz	CW	(F5JBR-J)
M89	10253	22-4	0548	Sat	Z4RQ (x3) de 3WRX (x2) V	CW	(F5JBR-J)
M89	10253	22-4	0751	Sat	V Z4RQ (x3) DE 3WRX (x2)	CW	(JPL)
M89	8060	22-4	0756	Sat	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	10180	22-4	1149	Sat	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3777	22-4	1151	Sat	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	3642	22-4	1352	Sat	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	22-4	1352	Sat	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4847	22-4	1354	Sat	V Z4RQ (x3) DE 3WRX (x2)	CW	(JPL)
M89	4131	22-4	1753	Sat	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	3777	23-4	1257	Sun	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	23-4	1257	Sun	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	3642	23-4	1301	Sun	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	23-4	1301	Sun	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4102	23-4	1302	Sun	i.p. D3NA 3.UU 54T7 (...)	CW	(JPL)
M89	4131	23-4	1741	Sun	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4847	23-4	1742	Sun	V Z4RQ (x3) DE 3WRX (x2)	CW	(JPL)
M89	3642	23-4	1746	Sun	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	23-4	1746	Sun	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4840	23-4	1750	Sun	i.p. D3ND 3T67 A4DT 6N43 ... K. R =TT.N A537 7.A3 7N3T AR K HR WK NR 568 K R SK SK	CW	(JPL)
M89	3777	23-4	1756	Sun	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	23-4	1756	Sun	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	7550	24-4	1010	Mon	i.p. 01W GA = 7A6U UU55 467N UT5D ... K K (see N&O 235)	CW	(JPL)
M89	10253	24-4	1036	Mon	V Z4RQ (x3) DE 3WRX (x2)	CW	(JPL)
M89	10180	24-4	1037	Mon	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3777	24-4	1039	Mon	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	24-4	1039	Mon	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	5451	24-4	1047	Mon	i.p. 76TA A5AD 73UT ... AR R = TN65 T.D3 A45A 7DN3 ... AR	CW	(JPL)

M89	4834	24-4	1107	Mon	i.p. RMKS 66.. 7 .. K. R Q EEEE GA K	CW	(JPL)
M89	8350	24-4	1130	Mon	VVV WNF DE FXM QSA ? QSV K //4720	CW	(JPL)
M89	3642	24-4	1419	Mon	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	24-4	1419	Mon	V DKG6 (x3) DE 3A7D (x2) //36422	CW	(JPL)
M89	4860	24-4	1420	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840	CW	(JPL)
M89	6840	24-4	1420	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//4860	CW	(JPL)
M89	4847	24-4	1423	Mon	V Z4RQ (x3) DE 3WRX (x2)	CW	(JPL)
M89	5239	24-4	1429	Mon	i.p. 7N7A III = NN7N 575N ... AR	CW	(JPL)
M89	6793	25-4	0050	Tue	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	8060	25-4	0050	Tue	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	10253	25-4	0816	Tue	V Z4RQ (x3) DE 3WRX (x2)	CW	(JPL)
M89	8060	25-4	0817	Tue	i.p. 9/47.4/4 K. UGT COMM = 195/5378/9/4704/4 AR V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	10640	25-4	0820	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//N/H	CW	(JPL)
M89	4847	25-4	1301	Tue	V Z4RQ (x3) DE 3WRX (x2)	CW	(JPL)
M89	3777	25-4	1302	Tue	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	25-4	1302	Tue	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	3642	25-4	1702	Tue	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	25-4	1702	Tue	V DKG6 (x3) DE 3A7D (x2) //36422	CW	(JPL)
M89	10253	26-4	1055	Wed	V Z4RQ (x3) DE 3WRX (x2)	CW	(JPL)
M89	10180	26-4	1056	Wed	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3777	26-4	1059	Wed	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	26-4	1059	Wed	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	5454	26-4	1107	Wed	i.p. VV PN6J DE 59CM K K. VV 89OF DE 59CM K K (see N&O 235)	CW	(JPL)
M89	3642	26-4	1512	Wed	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	26-4	1512	Wed	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4847	26-4	1513	Wed	V Z4RQ (x3) DE 3WRX (x2)	CW	(JPL)
M89	4131	26-4	2212	Wed	V JKDJ (x3) DE SLBC (x2) (Remote tuner Sweden)]	CW	(JPL)
M89	10253	27-4	0731	Thu	V Z4RQ (x3) DE 3WRX (x2)	CW	(JPL)
M89	3642	27-4	1402	Thu	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	27-4	1402	Thu	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	3777	27-4	1403	Thu	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	27-4	1403	Thu	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4847	27-4	1405	Thu	V Z4RQ (x3) DE 3WRX (x2)	CW	(JPL)
M89	4131	27-4	1406	Thu	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	10640	28-4	0720	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)	CW	(JPL)
M89	10253	28-4	0741	Fri	V Z4RQ (x3) DE 3WRX (x2)	CW	(JPL)
M89	5801	28-4	1542	Fri	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	10180	28-4	1542	Fri	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	3777	28-4	1543	Fri	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	28-4	1543	Fri	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	5126	28-4	1545	Fri	i.p. U QSY 21 U QSY 21 K. R HR 7G 2 K. R GA	CW	(JPL)
M89	4131	28-4	1705	Fri	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	5801	28-4	1706	Fri	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	10180	28-4	1706	Fri	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	4847	28-4	1709	Fri	V Z4RQ (x3) DE 3WRX (x2)	CW	(JPL)
M89	10640	30-4	0620	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)	CW	(JPL)
M89	10253	30-4	0623	Sun	V Z4RQ (x3) DE 3WRX (x2)	CW	(JPL)
M89	8060	30-4	0625	Sun	V M8JF (x3) DE RIS9 (x2) //N/H	CW	(JPL)
M89	6793	30-4	0742	Sun	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	8060	30-4	0742	Sun	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	3777	30-4	1312	Sun	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	30-4	1312	Sun	i.p. NR 5106 CK 93 40 0430 2110 RMKS ...6 5221 5429 5280 = 3AT7 3N5U ... AR. V M8JF DE RIS9 //3777	CW	(JPL)
M89	4860	30-4	1320	Sun	V DKG6 (x3) DE 3A7D (x2) //6840	CW	(JPL)
M89	6840	30-4	1320	Sun	V DKG6 (x3) DE 3A7D (x2) //4860	CW	(JPL)
M89	3642	30-4	1349	Sun	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	30-4	1349	Sun	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M95	4364	4-4	1136	Tue	V BNGC (x3) DE XSV85 HR 7G GA NR 0309 CK 165 35 0404 1548 = TT4 3U6 3AN 3U... //8073 kHz	CW	(JPL-NZL)
M95	8073	4-4	1136	Tue	V BNGC (x3) DE XSV85 HR 7G GA NR 0309 CK 165 35 0404 1548 = TT4 3U6 3AN 3U... //4364 kHz	CW	(JPL-NZL)
M95	4243	4-4	1147	Tue	VV HR MSG TO YR PSE CY NR 013 CK 25 35 0404 1445 = 5TD UTT TT4 3U6 3A4 ... //9054 kHz	CW	(JPL-NZL)
M95	9054	4-4	1147	Tue	VV HR MSG TO YR PSE CY NR 013 CK 25 35 0404	CW	(JPL-NZL)

					1445 = 5TD UTT TT4 3U6 3A4 ... //4243 kHz		
M95	8660	5-4	1033	Wed	05 W.. ? BT .OGPRUCNXXKVW ? 4A.PUFUCBTLWSKRVZDSS TZDEW HNKNTCEM- ZFFP..BD FL ...	CW	(JPL-NZL)
M95	4364	5-4	1136	Wed	V BNGC (x3) DE XSV85 (x2) HR MSG GA PSE CY NR 0310 CK 175 35 0405 1534 = TT5 3U6 3.N 3.7 TAU ... //8073 kHz	CW	(JPL-NZL)
M95	8073	5-4	1136	Wed	V BNGC (x3) DE XSV85 (x2) HR MSG GA PSE CY NR 0310 CK 175 35 0405 1534 = TT5 3U6 3.N 3.7 TAU ... //4364 kHz	CW	(JPL-NZL)
M95	4243	5-4	1146	Wed	VV HR 7G TO YR PSE CY NR 015 CK 20 35 0405 1516 = 5TD UTT TT5 3U6 3A4 ... //9054 kHz	CW	(JPL-NZL)
M95	9054	5-4	1146	Wed	VV HR 7G TO YR PSE CY NR 015 CK 20 35 0405 1516 = 5TD UTT TT5 3U6 3A4 ... //4243 kHz	CW	(JPL-NZL)
M95	8990	6-4	1028	Thu	= P2QT/G8VZ AR K = P2QT/G8VZ IEC IEC BT BT 3655 AR K. RMKS RMKS RMKS RMKS 5301 TO 5694 TO 6028 TO 6421 TO 6755 ...	CW	(JPL-NZL)
M95	4364	6-4	1138	Thu	V BNGC (x3) DE XSV85 (x2) HR MSG GA PSE CY NR 0312 CK 178 35 0406 1525 = TT6 3U6 3AN 3U7 TAU 773 ... //8073 kHz	CW	(JPL-NZL)
M95	8073	6-4	1138	Thu	V BNGC (x3) DE XSV85 (x2) HR MSG GA PSE CY NR 0312 CK 178 35 0406 1525 = TT6 3U6 3AN 3U7 TAU 773 ... //4364 kHz	CW	(JPL-NZL)
M95	4243	6-4	1144	Thu	VV HR 7G TO YR PSE CY NR 017 CK 20 35 0406 1416 = 5TD UTT TT6 3U6 3A4 ... //9054 kHz	CW	(JPL-NZL)
M95	9054	6-4	1144	Thu	VV HR 7G TO YR PSE CY NR 017 CK 20 35 0406 1416 = 5TD UTT TT6 3U6 3A4 ... //4243 kHz	CW	(JPL-NZL)
M95	4243	7-4	1217	Fri	i.p. NR 027 CK 22 0407 1625 = //9054 kHz	CW	(JPL-NZL)
M95	9054	7-4	1217	Fri	i.p. NR 027 CK 22 0407 1625 = //4243 kHz	CW	(JPL-NZL)
M95	8925	7-4	1230	Fri	i.p. GCVXD VTNCU NQYJO KETVP YMEMJ WEGCV GNWKU ... AR QSL GET NR 03369 NR 03369 CK 62 = (see N&O 235)	CW	(JPL-NZL)
M95	8925	7-4	1713	Fri	i.p. XNXVF.TMPI PWZUS FWXAU ... AR W 9W PTMGG PTMGG (see N&O 235)	CW	(JPL-NZL)
M95	4363	10-4	1138	Mon	V BNGC (x3) DE XSV85 (x2). Appears to be having technical problems. Eventually in CW on 4364, but not on 8073 kHz	CW	(JPL-NZL)
M95	4243	10-4	1148	Mon	VV HR MSG TO YR PSE CY NR 025 33 35 0410 1420 = 5TD UTT TAT 3U6 7T1 N44 3A4 357 473 4AA ... //9054 kHz	CW	(JPL-NZL)
M95	9054	10-4	1148	Mon	VV HR MSG TO YR PSE CY NR 025 33 35 0410 1420 = 5TD UTT TAT 3U6 7T1 N44 3A4 357 473 4AA ... //4243 kHz	CW	(JPL-NZL)
M95	3210	10-4	1453	Mon	XJ6O de MGA7 MSG NR0410/CCK CK 19 67 04 10 2300 RMKS 5676 TO AU34 = (see N&O 235)	CW	(F5JBR-J)
M95	10210	11-4	1530	Tue	i.p. RPT 11W TO 14W BT 7DA. ...45 DAN 6.. AR K (see N&O 235)	CW	(JPL-NZL)
M95	3132	11-4	1708	Tue	Msg i.p. (outstations on 3366 kHz)	CW	(F5JBR-J)
M95	3366	11-4	1708	Tue	W1RX R OK QSL 0120 0120 K. NIL SK GB (see N&O 235)	CW	(F5JBR-J)
M95	7533	13-4	0938	Thu	i.p. 354 373 N3D 353 4AD 445 II 445 N3D 446 467 4DD TAT ... //9153 kHz	CW	(JPL-NZL)
M95	9153	13-4	0938	Thu	i.p. 354 373 N3D 353 4AD 445 II 445 N3D 446 467 4DD TAT ... //7533 kHz	CW	(JPL-NZL)
M95	3132	13-4	1700	Thu	IEHC (x3) de D2HR (x2) V. TE2Y QSO with outstations on 3366 kHz)	CW	(F5JBR-J)
M95	9054	14-4	0905	Fri	i.p. 4D4 AR A HR MSG GA NR 048 CK 14 35 14 1537 = UT5 TA4 3U6 3A4 TTA TTU TT3 773 356 36U ...	CW	(JPL-NZL)
M95	4243	15-4	0913	Sat	i.p. U7U N4A 444 3DA TTU TT3 773 435 AR A HR MSG GA NR 30 CK 145 35 0415 1635 = UTU TA5 3U6 3A4 TTU 773 357 34A N3U ... //9054 kHz	CW	(JPL-NZL)
M95	9054	15-4	0913	Sat	i.p. U7U N4A 444 3DA TTU TT3 773 435 AR A HR MSG GA NR 30 CK 145 35 0415 1635 = UTU TA5 3U6 3A4 TTU 773 357 34A N3U ... //4243 kHz	CW	(JPL-NZL)
M95	4364	16-4	1137	Sun	V BNGC (x3) DE XSV85 (x2) HR MSG GA PSE CY NR 0332 CK .94 35 0416 1613 = T63U6 3AN 3U7 TAU 773 353 363 4AD ... //8073 kHz	CW	(JPL-NZL)

M95	8073	16-4	1137	Sun	V BNGC (x3) DE XSV85 (x2) HR MSG GA PSE CY NR 0332 CK .94 35 0416 1613 = T63U6 3AN 3U7 TAU 773 353 363 4AD ... //4364 kHz	CW	(JPL-NZL)
M95	4243	16-4	1148	Sun	VV HR 7G TO YR PSE CY NR 037 CK 20 35 0416 1517 = 5TD UTT TA6 3U6 3A4 354 373 4NN N3D 4A5 ... //9054 kHz	CW	(JPL-NZL)
M95	3132	17-4	1700	Mon	IEHC (x3) de D2HR (x2) V	CW	(F5JBR-J)
M95	3132	17-4	1704	Mon	TE2Y clg 5KKN R5JY JKHZ 5RWD 2TEP F2JK JKS1 USI2, then: HR MSG NR 213/CCK CK 99 63 04 17 0100 RMKS = CQ AR = N35D TA7D 63D7 T75N ... AR	CW	(F5JBR-J)
M95	7553	18-4	0956	Tue	XSV70 i.p. III N3D 4T3 445 4D3 75D 4DU ... MSG AGN NR 322 CK 145 35 0418 0659 4DA UT3 TAD 4U4 3A5 ... //9153 kHz	CW	(JPL-NZL)
M95	9153	18-4	0956	Tue	XSV70 i.p. III N3D 4T3 445 4D3 75D 4DU ... MSG AGN NR 322 CK 145 35 0418 0659 4DA UT3 TAD 4U4 3A5 ... //7553 kHz	CW	(JPL-NZL)
M95	4364	22-4	1138	Sat	V BNGC (x3) DE XSV85 (x2) HR MSG PSE CY NR 0351 CK 241 35 0422 1542 = TUU 3U6 3AN 3U7 TAU ... //8073 kHz	CW	(JPL-NZL)
M95	8073	22-4	1138	Sat	V BNGC (x3) DE XSV85 (x2) HR MSG PSE CY NR 0351 CK 241 35 0422 1542 = TUU 3U6 3AN 3U7 TAU ... //4364 kHz	CW	(JPL-NZL)
M95	4243	22-4	1151	Sat	V HR 7G TO YR PSE CY NR 049 CK 20 35 0422 15.. = 5TD UTT TUU 3U6 7TA ... //9054 kHz	CW	(JPL-NZL)
M95	9054	22-4	1151	Sat	V HR 7G TO YR PSE CY NR 049 CK 20 35 0422 15.. = 5TD UTT TUU 3U6 7TA ... //4243 kHz	CW	(JPL-NZL)
M95	7553	23-4	1320	Sun	BNEC DE XSV70 HR MSG TO YR PSE NOTE CY NR 20 CK 42 49 0423 1700 364 U7D 7TT 4DN 4D6 7TT 7U4 77T A76 75T ...	CW	(JPL-NZL)
M95	4364	24-4	1137	Mon	V BNGC (x3) DE XSV85 (x2) HR MSG GA NR 0355 CK 232 35 0424 1554 = TU4 3U6 3AN 3U7 TAU 773 ... //8073 kHz	CW	(JPL-NZL)
M95	8073	24-4	1137	Mon	V BNGC (x3) DE XSV85 (x2) HR MSG GA NR 0355 CK 232 35 0424 1554 = TU4 3U6 3AN 3U7 TAU 773 ... //4364 kHz	CW	(JPL-NZL)
M95	4243	24-4	1146	Mon	HR MSG TO YR PSE CY NR 053 CK 25 35 0424 1426 = 5TD UTT TU4 3U6 7T3 ... //9054 kHz	CW	(JPL-NZL)
M95	9054	24-4	1146	Mon	HR MSG TO YR PSE CY NR 053 CK 25 35 0424 1426 = 5TD UTT TU4 3U6 7T3 ... //4243 kHz	CW	(JPL-NZL)
M95	7553	25-4	0922	Tue	BNEC DE XSV70 A HR MSG TO YR PSE CY NR 344 CK 154 35 0425 1548 4DA UT3 TU5 3U6 3A4 ...	CW	(JPL-NZL)
M95	7553	30-4	1324	Sun	i.p. 466 4D6 33D 75D 4DU 3DU TTD 773 35A ... III 3DU TAD 773 35A U46 353 4T3 ... A HR MSG GA	CW	(JPL-NZL)
M96	8130	16-4	0807	Sun	HPQV (x3) de RPLC (x2) VVV HR MSG NR 32/CCK CK 28 39 04 16 1600 RMKS 5594 TO 9661 9334 0255 1433 9940 =	CW	(F5JBR-J)
MX	5466	3-4	2050	Mon	Beacon V	CW	(AB)
MX	7508.7	4-4	1942	Tue	Beacon D, Sevastopol	CW	(VL)
MX	7508.9	4-4	1942	Tue	Beacon S, Severomorsk	CW	(VL)
MX	7509.1	4-4	1942	Tue	Beacon A, Astrakhan	CW	(VL)
MX	10871.9	5-4	0808	Wed	Beacon S, Sevoromorsk	CW	(AB)
MX	10872	5-4	0808	Wed	Beacon C, Moscow	CW	(AB)
MX	13527.7	5-4	0808	Wed	Beacon D, Sevastopol	CW	(AB)
MX	13527.9	5-4	0808	Wed	Beacon S, Sevoromorsk	CW	(AB)
MX	13528	5-4	0808	Wed	Beacon C, Moscow	CW	(AB)
MX	16331.7	5-4	0808	Wed	Beacon D, Sevastopol	CW	(AB)
MX	16331.9	5-4	0808	Wed	Beacon S, Sevoromorsk	CW	(AB)
MX	16332	5-4	0808	Wed	Beacon C, Moscow	CW	(AB)
MX	16332.1	5-4	0808	Wed	Beacon A, Astrakhan	CW	(AB)
MX	7508.7	8-4	0923	Sat	Beacon D, Sevastopol	CW	(AB)
MX	8495.2	8-4	0923	Sat	Beacon F, Vladivostok	CW	(AB-NZL)

MX	8495.4	8-4	0923	Sat	Beacon M, Magadan	CW	(AB-NZL)
MX	10871. 7	8-4	0923	Sat	Beacon D, Sevastopol	CW	(AB)
MX	10872	8-4	0923	Sat	Beacon C, Moscow	CW	(AB)
MX	13527. 7	8-4	0923	Sat	Beacon D, Sevastopol	CW	(AB)
MX	13527. 9	8-4	0923	Sat	Beacon S, Severomorsk	CW	(AB)
MX	13528	8-4	0923	Sat	Beacon C, Moscow	CW	(AB)
MX	13528. 2	8-4	0923	Sat	Beacon F, Vladivostok	CW	(AB-J)
MX	13528. 4	8-4	0923	Sat	Beacon M, Magadan	CW	(AB-NZL)
MX	16332. 1	8-4	0923	Sat	Beacon A, Astrakhan	CW	(AB)
MX	8497.8	8-4	1355	Sat	Beacon L, St Petersburg	CW	(AB)
MX	5466	11-4	2016	Tue	Beacon V	CW	(AB/MPJ)
MX	16332. 2	13-4	0607	Thu	Beacon F, Vladivostok	CW	(AB)
MX	16332. 4	13-4	0607	Thu	Beacon M, Magadan	CW	(AB)
MX	13528. 2	13-4	0608	Thu	Beacon F, Vladivostok	CW	(AB)
MX	10872. 2	13-4	0617	Thu	Beacon F, Vladivostok	CW	(AB)
MX	10872. 4	13-4	0617	Thu	Beacon M, Magadan	CW	(AB)
MX	5466	13-4	1557	Thu	Beacon V	CW	(AB-RUS)
MX	4150	13-4	1608	Thu	Beacon V	CW	(AB-RUS)
MX	10871. 7	15-4	2015	Sat	Beacon D, Sevastopol	CW	(RL)
MX	10871. 7	16-4	0537	Sun	Beacon D, Sevastopol	CW	(AB)
MX	10871. 9	16-4	0537	Sun	Beacon S, Severomorsk	CW	(AB)
MX	10872	16-4	0537	Sun	Beacon C, Moscow	CW	(AB)
MX	10872. 1	16-4	0537	Sun	Beacon A, Astrakhan	CW	(AB)
MX	16332. 1	16-4	0538	Sun	Beacon A, Astrakhan	CW	(AB)
MX	13527. 7	16-4	0539	Sun	Beacon D, Sevastopol	CW	(AB)
MX	7508.7	16-4	0540	Sun	Beacon D, Sevastopol	CW	(AB)
MX	7508.9	16-4	0540	Sun	Beacon S, Severomorsk	CW	(AB)
MX	13528. 2	16-4	0543	Sun	Beacon F, Vladivostok	CW	(AB-J)
MX	13528. 4	16-4	0543	Sun	Beacon M, Magadan	CW	(AB-J)
MX	10872. 4	16-4	0544	Sun	Beacon M, Magadan	CW	(AB-J)
MX	8495.2	16-4	0547	Sun	Beacon F, Vladivostok	CW	(AB-J)
MX	8495.4	16-4	0547	Sun	Beacon M, Magadan	CW	(AB-J)
MX	16332. 4	16-4	0549	Sun	Beacon M, Magadan	CW	(AB-NZL)
MX	7508.7	17-4	0524	Mon	Beacon D, Sevastopol	CW	(BvR)
MX	7508.9	17-4	0524	Mon	Beacon S, Severomorsk	CW	(BvR)
MX	5153.7	17-4	1713	Mon	Beacon D, Sevromorsk	CW	(AB)
MX	5153.9	17-4	1713	Mon	Beacon S, Severomorsk	CW	(AB)
MX	5154.1	17-4	1713	Mon	Beacon A, Astrakhan	CW	(AB)
MX	5156.8	17-4	1713	Mon	Beacon L, St Petersburg	CW	(AB)
MX	5174	17-4	1713	Mon	Beacon C, Moscow	CW	(AB)
MX	7508.1	17-4	1713	Mon	Beacon A, Astrakhan	CW	(AB)
MX	8497.8	17-4	1713	Mon	Beacon L, St Petersburg	CW	(AB)
MX	5466	17-4	1715	Mon	Beacon V	CW	(AB)
MX	8495.4	17-4	1813	Mon	Beacon M, Magadan	CW	(F5JBR-J)
MX	9116.8	17-4	1813	Mon	Beacon M, Magadan. Switches to 7039.4 kHz at 1830 UTC	CW	(F5JBR-J)

MX	7039.4	17-4	1830	Mon	Beacon M, Magadan	CW	(F5JBR-J)
MX	8821	19-4	0900	Wed	Beacon S	CW	(ES)
MX	8821	19-4	0930	Wed	Beacon S	CW	(ES)
MX	8821	19-4	1000	Wed	Beacon S	CW	(ES)
MX	8821	19-4	1030	Wed	Beacon S	CW	(ES)
MX	4150	20-4	2016	Thu	Beacon V	CW	(ES-POL)
MX	8495.4	21-4	0849	Fri	Beacon M, Magadan	CW	(AB-NZL)
MX	13527. 7	21-4	0849	Fri	Beacon D, Sevoromorsk	CW	(AB-NZL)
MX	13528. 2	21-4	0849	Fri	Beacon F, Vladivostok	CW	(AB-NZL)
MX	13528. 3	21-4	0849	Fri	Beacon K, Petropavlovsk Kamchatskiy	CW	(AB-NZL)
MX	13528. 4	21-4	0849	Fri	Beacon M, Magadan	CW	(AB-NZL)
MX	10872. 4	21-4	0852	Fri	Beacon M, Magadan	CW	(AB-NZL)
MX	7039.2	21-4	0856	Fri	Beacon F, Vladivostok	CW	(AB-NZL)
MX	7039.3	21-4	0856	Fri	Beacon TI (defective K?)	CW	(AB-NZL)
MX	7039.4	21-4	0856	Fri	Beacon M, Magadan	CW	(AB-NZL)
MX	5154.2	21-4	1135	Fri	Beacon F, Vladivostok	CW	(AB-NZL)
MX	5156.8	22-4	0755	Sat	Beacon L, St Petersburg	CW	(AB)
MX	5466	23-4	1539	Sun	Beacon V	CW	(AB-RUS)
MX	7727	25-4	1401	Tue	Beacon V	CW	(F5JBR-J)
MX	5466	26-4	1919	Wed	Beacon V	CW	(MPJ)
Q26	4364	4-4	1131	Tue	Messages //8073 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	8073	4-4	1131	Tue	Messages //4364 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	4243	4-4	1141	Tue	Messages //9054 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	9052	4-4	1141	Tue	Messages //4243 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	4364	5-4	1131	Wed	Messages //8073 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	8073	5-4	1131	Wed	Messages //4364 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	4243	5-4	1140	Wed	Messages //9054 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	9054	5-4	1140	Wed	Messages //4243 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	4243	6-4	1140	Thu	Messages //9054 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	9054	6-4	1140	Thu	Messages //4243 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	4364	10-4	1134	Mon	Messages //8073 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	8073	10-4	1134	Mon	Messages //4364 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	4243	10-4	1145	Mon	Messages //9054 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	9054	10-4	1145	Mon	Messages //4243 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	7553	14-4	0902	Fri	Messages. Odd transmission in both USB and LSB at the same time.	4+4 QPSK 75/3000 DSB	(JPL-NZL)
Q26	9153	14-4	0902	Fri	Messages //7553 kHz	4+4 QPSK 75/3000 DSB	(JPL-NZL)
Q26	4243	16-4	1142	Sun	Messages //9054 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	4364	16-4	1142	Sun	Messages //8073 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	8073	16-4	1142	Sun	Messages //4364 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	9054	16-4	1142	Sun	Messages //4243 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	9054	16-4	1142	Sun	Messages //4243 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)

Q26	4364	22-4	1131	Sat	Messages //8073 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	8073	22-4	1131	Sat	Messages //4364 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	4243	22-4	1142	Sat	Messages //9054 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	9054	22-4	1142	Sat	Messages //4243 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	7553	23-4	1305	Sun	Messages	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	4243	24-4	1130	Mon	Messages //9054 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	9054	24-4	1130	Mon	Messages //4243 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	4364	24-4	1132	Mon	Messages //8073 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	8073	24-4	1132	Mon	Messages //4364 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	7553	25-4	0911	Tue	Messages. Double sideband transmission	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	19382	28-4	0230	Fri	F MCEU MCEU MCEU DE VSF17 VSF17 VSF17 XY- XYXYXYXY HR MSG TO U PSE CY 0058 20 51 0427 2200 9079---7476=9091 7174 0524 0443 ...	4+4 QPSK 75/3000 LSB	(EW)
Q26	19382	28-4	0232	Fri	F CJGN CJGN CJGN DE VSF17 VSF17 VSF17 XY- XYXYXYXY HR MSG TO U PSE CY 0057 40 51 0427 1630 9079---7471=9091 6432 3497 5790 ...	4+4 QPSK 75/3000 LSB	(EW)
RADv	3789	18-4	1633	Tue	Russian Air Defense. Bearing/range reports. Male operator	USB	(AB)
RAv	8090	14-4	0614	Fri	Tu-95MS Bear H voice net	USB	(Tom)
S06	4538	1-4	1900	Sat	913 913 91300000	USB	(AnEur)
S06	3894	1-4	2000	Sat	913 913 91300000	USB	(AnEur)
S06	9463	4-4	1000	Tue	480 591 40 34507 52090 24544 ... 70217 45945 94752 591 40 00000	USB	(ES)
S06	7353	4-4	1030	Tue	480 591 40 34507 52090 24544 ... 70217 45945 94752 591 40 00000	USB	(ES)
S06	12129	4-4	1230	Tue	480 591 40 34507 52090 24544 ... 70217 45945 94752 591 40 00000. Cut off after the 10th group. Came back, cut off again and restarted.	USB	(ES)
S06	10846	4-4	1300	Tue	480 591 40 34507 52090 24544 ... 70217 45945 94752 591 40 00000	USB	(ES)
S06	9327	7-4	1900	Fri	514 514 514 00000	USB	(AB/MPJ/HFD)
S06	6774	7-4	2000	Fri	514 514 514 00000	USB	(AB/MPJ/HFD)
S06	9463	11-4	1000	Tue	480 215 43 02603 75046 63126 ... 10558 06941 43904 215 43 00000	USB	(AB/ES)
S06	7353	11-4	1030	Tue	480 215 43 02603 75046 63126 ... 10558 06941 43904 215 43 00000	USB	(AB/ES)
S06	12129	11-4	1230	Tue	480 215 43 02603 75046 63126 ... 10558 06941 43904 215 43 00000	USB	(AB/ES)
S06	10846	11-4	1300	Tue	480 215 43 02603 75046 63126 ... 10558 06941 43904 215 43 00000	USB	(AB/ML4/ES)
S06	16318	13-4	0930	Thu	842 605 39 38807 28458 67304 ... 31711 56273 9815 605 39 00000	USB	(AB-J)
S06	15721	14-4	0400	Fri	480 ...	USB	(HFD-USA)
S06	4538	15-4	1900	Sat	913 0	USB	(HFD)
S06	3894	15-4	2000	Sat	913 913 913 00000	USB	(AB/HFD)
S06	6855	19-4	0930	Wed	624 624 624 00000	USB	(ES)
S06	6935	19-4	0940	Wed	624 624 624 00000	USB	(ES)
S06	19078	21-4	0830	Fri	842 971 40 68885 49844 67893 ... 86329 83215 28599 971 40 00000	USB	(AB-J)
S06	16318	21-4	0930	Fri	842 971 40 68885 49844 67893 ... 86329 83215 28599 971 40 00000	USB	(AB-J)
S06	9237	21-4	1900	Fri	514 514 514 00000	USB	(AB/MPJ)
S06	6774	21-4	2000	Fri	514 514 514 00000	USB	(AB/MPJ)
S06	19078	27-4	0830	Thu	842 305 41 38690	USB	(HFD-HK)
S06	16318	27-4	0930	Thu	842 305 41 38690 74414 30329 ... 46544 06899 93444 305 41 00000	USB	(PW2-J)
S06	19078	28-4	0830	Fri	842 305 41 38690 74414 30329 ... 46544 06899	USB	(AB-J/ES-J)

93444 305 41 00000								
S06	16318	28-4	0930	Fri	842	USB	(HFD-HK)	
S06c	9933	8-4	1103	Sat	i.p. 11212	USB	(ES)	
S06c	6123	18-4	1005	Tue	111625	USB	(ES)	
S06c	8171	18-4	1005	Tue	111625	USB	(ES)	
S06c	7823	18-4	1015	Tue	111625	USB	(ES)	
S06c	6123	19-4	0950	Wed	111625	USB	(ES)	
S06c	8171	19-4	0950	Wed	111625	USB	(ES)	
S06c	6123	19-4	1005	Wed	111625	USB	(ES)	
S06c	8171	19-4	1005	Wed	111625	USB	(ES)	
S06c	6981	26-4	1133	Wed	i.p. 11021	USB	(ES)	
S06s	10350	1-4	0800	Sat	254 980 6 26634 14690 95590 60386 88569 89617 980 6 00000	USB	(AB/ES)	
S06s	8520	1-4	0810	Sat	254 980 6 26634 14690 95590 60386 88569 89617 980 6 00000	USB	(AB/ES)	
S06s	9220	3-4	0830	Mon	371 458 6 95051 13808 71909 83981 24035 48115 458 6 00000	USB	(AB)	
S06s	8270	3-4	0840	Mon	371 458 6 95051 13808 71909 83981 24035 48115 458 6 00000	USB	(AB)	
S06s	14580	3-4	0900	Mon	872 491 5 88569 89617 25757 77159 95225 491 5 00000	USB	(AB)	
S06s	13165	3-4	0910	Mon	872 491 5 88569 89617 25757 77159 95225 491 5 00000	USB	(AB)	
S06s	9145	3-4	1200	Mon	831 257 6 21676 53672 11834 81022 36903 41412 257 6 00000	USB	(AB/MPJ)	
S06s	11460	3-4	1210	Mon	831 257 6 21676 53672 11834 81022 36903 41412 257 6 00000	USB	(AB/MPJ)	
S06s	5760	4-4	0700	Tue	374 925 6 26634 14690 95590 60386 03009 81413 925 6 00000	USB	(AB)	
S06s	6930	4-4	0715	Tue	374 925 6 26634 14690 95590 60386 03009 81413 925 6 00000	USB	(AB)	
S06s	7425	4-4	0730	Tue	427 906 5 95041 10544 98003 68909 45279 906 5 00000	USB	(AB)	
S06s	11560	4-4	0740	Tue	427 906 5 95041 10544 98003 68909 45279 906 5 00000	USB	(AB)	
S06s	6410	4-4	1000	Tue	893 245 6 92060 11749 70552 56936 57989 88569 245 6 00000	USB	(AB)	
S06s	7340	4-4	1010	Tue	893 245 6 92060 11749 70552 56936 57989 88569 245 6 00000	USB	(AB)	
S06s	6190	4-4	1100	Tue	754 920 6 30485 96632 52537 53317 06675 41736 920 6 00000	USB	(AB/ES)	
S06s	7230	4-4	1110	Tue	754 920 6 30485 96632 52537 53317 06675 41736 920 6 00000	USB	(AB)	
S06s	6464	4-4	1500	Tue	537 284 6 13808 71908 83981 24035 48115 61135 284 6 00000	USB	(AB)	
S06s	7242	4-4	1510	Tue	537 284 6 13808 71908 83981 24035 48115 61135 284 6 00000	USB	(AB)	
S06s	8630	5-4	0620	Wed	471 560 8 52401 63919 92699 14600 74248 48754 65125 41879 560 8 00000	USB	(AB)	
S06s	9255	5-4	0630	Wed	471 560 8 52401 63919 92699 14600 74248 48754 65125 41879 560 8 00000	USB	(AB/ES)	
S06s	9082	5-4	0830	Wed	464 952 7 46062 68672 97478 39685 30485 96632 52537 952 7 00000	USB	(AB)	
S06s	11530	5-4	0830	Wed	745 216 8 39783 35468 35208 35868 49131 45326 30478 39686 216 8 00000	USB	(AB)	
S06s	9952	5-4	0840	Wed	464 952 7 46062 68672 97478 39685 30485 96632 52537 952 7 00000	USB	(AB/ES)	
S06s	12140	5-4	0840	Wed	745 216 8 39783 35468 35208 35868 49131 45326 30478 39686 216 8 00000	USB	(AB/ES)	
S06s	13365	5-4	1000	Wed	729 416 5 39382 45739 49645 32975 45356 416 5 00000	USB	(AB/MPJ)	
S06s	14505	5-4	1010	Wed	729 416 5 39382 45739 49645 32975 45356 416 5 00000	USB	(AB/MPJ)	
S06s	9081	6-4	0930	Thu	314 587 6 62916 42017 62813 83442 41035 63027 587 6 00000	USB	(AB)	
S06s	10514	6-4	0940	Thu	314 587 6 62916 42017 62813 83442 41035 63027 587 6 00000	USB	(AB/ES)	

S06s	12415	6-4	1200	Thu	425 963 7 92016 52416 73968 12183 62914 03514 52418 963 7 00000	USB	(AB/ES)
S06s	14212	6-4	1210	Thu	425 963 7 92016 52416 73968 12183 62914 03514 52418 963 7 00000	USB	(AB)
S06s	6524	7-4	0910	Fri	624 801 5 17099 94961 35826 65906 77233 00000	USB	(ES)
S06s	12140	7-4	0930	Fri	516 423 7 14600 74248 48754 65125 41879 84648 42036 423 7 00000	USB	(AB)
S06s	13515	7-4	0940	Fri	516 423 7 14600 74248 48754 65125 41879 84648 42036 423 7 00000	USB	(AB/ES)
S06s	9220	10-4	0830	Mon	371 458 6 95051 13808 71909 83981 24035 48115 458 6 00000	USB	(AB)
S06s	8270	10-4	0840	Mon	371 458 6 95051 13808 71909 83981 24035 48115 458 6 00000	USB	(AB)
S06s	14580	10-4	0900	Mon	872 491 5 88569 89617 25757 77159 95225 491 5 00000	USB	(AB-I)
S06s	13165	10-4	0910	Mon	872 491 5 88569 89617 25757 77159 95225 491 5 00000	USB	(AB)
S06s	9145	10-4	1200	Mon	831 257 6 21676 53672 11834 81022 36903 41412 257 6 00000	USB	(AB-F)
S06s	11460	10-4	1210	Mon	831 257 6 21676 53672 11834 81022 36903 41412 257 6 00000	USB	(AB/MPJ)
S06s	15855	11-4	0600	Tue	438 unreadable	USB	(AB-S)
S06s	16485	11-4	0610	Tue	438 207 5 27734 14670 75590 60x86 03009 207 5 00000. Uncertain about several groups. Barely audi- ble	USB	(AB-S)
S06s	5760	11-4	0700	Tue	374 925 6 26634 14690 95590 60386 03009 81413 925 6 00000	USB	(AB)
S06s	6930	11-4	0715	Tue	374 925 6 26634 14690 95590 60386 03009 81413 925 6 00000	USB	(AB)
S06s	7425	11-4	0730	Tue	427 906 5 95041 10544 98003 68909 45279 906 5 00000	USB	(AB)
S06s	11560	11-4	0740	Tue	427 906 5 95041 10544 98003 68909 45279 906 5 00000	USB	(AB)
S06s	11635	11-4	0800	Tue	352 961 7 34072 83030 32030 34002 36870 39553 35530 961 7 00000	USB	(AB)
S06s	10420	11-4	0810	Tue	352 961 7 34072 83030 32030 34002 36870 39553 35530 961 7 00000	USB	(AB/ES)
S06s	6780	11-4	0830	Tue	471 471 471 00000	USB	(ES)
S06s	7025	11-4	0840	Tue	471 471 471 00000	USB	(ES)
S06s	8060	11-4	0900	Tue	471 471 471 00000	USB	(ES)
S06s	9140	11-4	0910	Tue	471 471 471 00000	USB	(ES)
S06s	6410	11-4	1000	Tue	893 245 6 92060 11749 70552 56936 57989 88569 245 6 00000	USB	(AB/ES)
S06s	7340	11-4	1010	Tue	893 245 6 92060 11749 70552 56936 57989 88569 245 6 00000	USB	(AB/MPJ)
S06s	6190	11-4	1100	Tue	754 920 6 30485 96632 52537 53317 06675 41736 920 6 00000	USB	(AB)
S06s	7230	11-4	1110	Tue	754 920 6 30485 96632 52537 53317 06675 41736 920 6 00000	USB	(AB/MPJ)
S06s	6464	11-4	1500	Tue	537 284 6 13808 71908 83981 24035 48115 61135 284 6 00000	USB	(AB-I)
S06s	7242	11-4	1510	Tue	537 284 6 13808 71908 83981 24035 48115 61135 284 6 00000	USB	(AB/MPJ)
S06s	9082	12-4	0830	Wed	464 952 7 46062 68672 97478 39685 30485 96632 52537 952 7 00000	USB	(AB)
S06s	11530	12-4	0830	Wed	745 216 8 39783 35468 35208 35868 49131 45326 30478 39686 216 8 00000	USB	(AB)
S06s	9952	12-4	0840	Wed	464 952 7 46062 68672 97478 39685 30485 96632 52537 952 7 00000	USB	(AB/ES)
S06s	12140	12-4	0840	Wed	745 216 8 39783 35468 35208 35868 49131 45326 30478 39686 216 8 00000	USB	(AB/ES)
S06s	13365	12-4	1000	Wed	729 416 5 39382 45739 49645 32975 45356 416 5 00000	USB	(AB/ES)
S06s	14505	12-4	1010	Wed	729 416 5 39382 45739 49645 32975 45356 416 5 00000	USB	(AB)
S06s	9081	13-4	0930	Thu	314 587 6 62916 42017 62813 83442 41035 63027 587 6 00000	USB	(AB)

S06s	10514	13-4	0940	Thu	314 587 6 62916 42017 62813 83442 41035 63027 587 6 00000	USB	(AB)
S06s	12415	13-4	1200	Thu	425 963 7 92016 52416 73968 12183 62914 03514 52418 963 7 00000	USB	(AB/MPJ)
S06s	14212	13-4	1210	Thu	425 963 7 92016 52416 73968 12183 62914 03514 52418 963 7 00000	USB	(AB/MPJ)
S06s	5744	14-4	0900	Fri	624 801 5 17099 94961 35826 65906 77233 00000	USB	(AB)
S06s	6524	14-4	0910	Fri	624 801 5 17099 94961 35826 65906 77233 00000	USB	(AB)
S06s	12140	14-4	0930	Fri	516 423 7 14600 74248 48754 65125 41879 84648 42036 423 7 00000	USB	(AB)
S06s	13515	14-4	0940	Fri	516 423 7 14600 74248 48754 65125 41879 84648 42036 423 7 00000	USB	(AB)
S06s	9220	17-4	0830	Mon	371 852 6 37947 39747 31323 31829 47694 45680 852 6 00000	USB	(AB/BvR)
S06s	8270	17-4	0840	Mon	371 852 6 37947 39747 31323 31829 47694 45680 852 6 00000	USB	(AB)
S06s	14580	17-4	0900	Mon	872 453 6 32392 81631 32313 36382 34917 36823 453 6 00000	USB	(AB-GRC)
S06s	13165	17-4	0910	Mon	872 453 6 32392 81631 32313 36382 34917 36823 453 6 00000	USB	(AB-GRC/BvR)
S06s	9145	17-4	1200	Mon	831 256 7 46062 68672 97478 39685 30485 66932 76321 256 7 00000	USB	(AB)
S06s	11460	17-4	1210	Mon	831 256 7 46062 68672 97478 39685 30485 66932 76321 256 7 00000	USB	(AB/MPJ)
S06s	15855	18-4	0600	Tue	438 279 ...	USB	(AB-S)
S06s	5760	18-4	0700	Tue	374 826 5 11171 64385 82707 06124 88290 826 5 00000	USB	(AB-UKR)
S06s	6930	18-4	0715	Tue	374 826 5 11171 64385 82707 06124 88290 826 5 00000	USB	(AB-UKR)
S06s	7425	18-4	0730	Tue	427 861 5 40614 77249 40678 17977 42998 861 5 00000	USB	(AB)
S06s	11560	18-4	0740	Tue	427 861 5 40614 77249 40678 17977 42998 861 5 00000	USB	(AB)
S06s	11635	18-4	0800	Tue	352 961 7 34072 83030 32030 34002 36870 39553 35530 961 7 00000	USB	(AB)
S06s	10420	18-4	0810	Tue	352 961 7 34072 83030 32030 34002 36870 39553 35530 961 7 00000	USB	(AB)
S06s	6410	18-4	1000	Tue	893 406 5 39534 17228 15636 47891 23247 406 5 00000	USB	(AB/MPJ)
S06s	7340	18-4	1010	Tue	893 406 5 39534 17228 15636 47891 23247 406 5 00000	USB	(AB)
S06s	6190	18-4	1100	Tue	754 293 6 88620 58069 61732 74537 57440 10597 293 6 00000	USB	(AB-UKR)
S06s	7230	18-4	1110	Tue	754 293 6 88620 58069 61732 74537 57440 10597 293 6 00000	USB	(AB-UKR/ES)
S06s	6464	18-4	1500	Tue	537 418 6 33796 13577 74527 47746 89302 69901 418 6 00000	USB	(AB-I)
S06s	7242	18-4	1510	Tue	537 418 6 33796 13577 74527 47746 89302 69901 418 6 00000	USB	(AB/MPJ)
S06s	8630	19-4	0820	Wed	471 560 8 52401 63919 92699 14600 74248 48754 65125 41879 560 8 00000	USB	(AB/ES)
S06s	9082	19-4	0830	Wed	464 879 5 17228 15636 47891 23247 17099 879 5 00000	USB	(AB)
S06s	9255	19-4	0830	Wed	471 560 8 52401 63919 92699 14600 74248 48754 65125 41879 560 8 00000	USB	(AB)
S06s	11530	19-4	0830	Wed	745 238 6 15009 34140 78386 91497 82963 24162 238 6 00000	USB	(AB)
S06s	9952	19-4	0840	Wed	464 879 5 17228 15636 47891 23247 17099 879 5 00000	USB	(AB)
S06s	12140	19-4	0840	Wed	745 238 6 15009 34140 78386 91497 82963 24162 238 6 00000	USB	(AB/ES)
S06s	13365	19-4	1000	Wed	729 861 5 24036 48115 24151 51802 23807 861 5 00000	USB	(AB/MPJ)
S06s	14505	19-4	1010	Wed	729 861 5 24036 48115 24151 51802 23807 861 5 00000	USB	(AB/ES)
S06s	9081	20-4	0930	Thu	314 927 5 24047 58195 66626 48646 32937 927 5 00000	USB	(AB)

S06s	10514	20-4	0940	Thu	314 927 5 24047 58195 66626 48646 32937 927 5 00000	USB	(AB-POL/ES)
S06s	12415	20-4	1200	Thu	425 938 6 47773 55580 95628 02465 48955 05317 938 6 00000	USB	(AnEUR)
S06s	14212	20-4	1210	Thu	425 938 6 47773 55580 95628 02465 48955 05317 938 6 00000	USB	(AnEur)
S06s	5744	21-4	0900	Fri	624 910 5 43785 67625 55500 61642 91505 910 5 00000	USB	(AB/ES)
S06s	6524	21-4	0910	Fri	624 910 5 43785 67625 55500 61642 91505 910 5 00000	USB	(AB)
S06s	12140	21-4	0930	Fri	516 493 7 28548 59014 32424 75078 97520 27569 05518 493 7 00000	USB	(AB)
S06s	13515	21-4	0940	Fri	516 493 7 28548 59014 32424 75078 97520 27569 05518 493 7 00000	USB	(AB/ES)
S06s	20050	23-4	0640	Sun	624 ...	USB	(BvR)
S06s	9220	24-4	0830	Mon	371 852 6 37947 39747 31323 31829 47694 45680 852 6 00000	USB	(AB)
S06s	8270	24-4	0840	Mon	371 852 6 37947 39747 31323 31829 47694 45680 852 6 00000	USB	(AB)
S06s	14580	24-4	0900	Mon	872 453 6 32392 81631 32313 36382 34917 36823 453 6 00000	USB	(AB)
S06s	13165	24-4	0910	Mon	872 453 6 32392 81631 32313 36382 34917 36823 453 6 00000	USB	(AB)
S06s	9145	24-4	1200	Mon	831 256 7 46062 68672 97478 39685 30485 66932 76321 256 7 00000	USB	(AB/ES)
S06s	11460	24-4	1210	Mon	831 256 7 46062 68672 97478 39685 30485 66932 76321 256 7 00000	USB	(AB)
S06s	15855	25-4	0600	Tue	438 279 5 88620 58069 61732 74537 57440 279 5 00000	USB	(AB)
S06s	16485	25-4	0610	Tue	438 279 5 88620 58069 61732 74537 57440 279 5 00000	USB	(AB/ES)
S06s	5760	25-4	0700	Tue	374 826 5 11171 64385 82707 06124 88290 826 5 00000	USB	(AB-UKR)
S06s	6930	25-4	0715	Tue	374 826 5 11171 64385 82707 06124 88290 826 5 00000	USB	(AB)
S06s	7425	25-4	0730	Tue	427 861 5 40614 77249 40678 17977 42998 861 5 00000	USB	(AB)
S06s	11560	25-4	0740	Tue	427 861 5 40614 77249 40678 17977 42998 861 5 00000	USB	(AB)
S06s	11635	25-4	0800	Tue	352 864 7 88146 57865 98835 46186 16945 80744 86200 864 7 00000	USB	(AB/ES)
S06s	10420	25-4	0810	Tue	352 864 7 88146 57865 98835 46186 16945 80744 86200 864 7 00000	USB	(AB)
S06s	6410	25-4	1000	Tue	893 406 5 39534 17228 15636 47891 23247 406 5 00000	USB	(AB/MPJ)
S06s	7340	25-4	1010	Tue	893 406 5 39534 17228 15636 47891 23247 406 5 00000	USB	(AB/ES-POL/MPJ)
S06s	6190	25-4	1100	Tue	754 293 6 88620 58069 61732 74537 57440 10597 293 6 00000	USB	(AB-UKR/ES-POL)
S06s	7230	25-4	1110	Tue	754 293 6 88620 58069 61732 74537 57440 10597 293 6 00000	USB	(AB-UKR)
S06s	6464	25-4	1500	Tue	537 418 6 33796 13577 74527 47746 89302 69901 418 6 00000	USB	(AB-I)
S06s	7242	25-4	1510	Tue	537 418 6 33796 13577 74527 47746 89302 69901 418 6 00000	USB	(AB)
S06s	8630	26-4	0820	Wed	471 471 471 00000	USB	(AB)
S06s	9082	26-4	0830	Wed	464 879 5 17228 15636 47891 23247 17099 879 5 00000	USB	(AB)
S06s	9255	26-4	0830	Wed	471 471 471 00000	USB	(AB/ES)
S06s	11530	26-4	0830	Wed	745 238 6 15009 34140 78386 91497 82963 24162 238 6 00000	USB	(AB/ES)
S06s	9952	26-4	0840	Wed	464 879 5 17228 15636 47891 23247 17099 879 5 00000	USB	(AB/ES)
S06s	12140	26-4	0840	Wed	745 238 6 15009 34140 78386 91497 82963 24162 238 6 00000	USB	(AB)
S06s	13365	26-4	1000	Wed	729 861 5 24036 48115 24151 51802 23807 861 5 00000	USB	(AB/MPJ/ES)

S06s	14505	26-4	1010	Wed	729 861 5 24036 48115 24151 51802 23807 861 5 00000	USB	(AB/MPJ)
S06s	9081	27-4	0930	Thu	314 927 5 24047 58195 66626 48646 32937 927 5 00000	USB	(AB/ES)
S06s	10514	27-4	0940	Thu	314 927 5 24047 58195 66626 48646 32937 927 5 00000	USB	(AB/PW2)
S06s	12415	27-4	1200	Thu	425 938 6 47773 55580 95628 02465 48955 05317 938 6 00000	USB	(AB/MPJ/ES/PW2)
S06s	14212	27-4	1210	Thu	425 938 6 47773 55580 95628 02465 48955 05317 938 6 00000	USB	(AB/MPJ)
S06s	5744	28-4	0900	Fri	624 910 5 43785 67625 55500 61642 91505 910 5 00000	USB	(AB/ES)
S06s	6524	28-4	0910	Fri	624 910 5 43785 67625 55500 61642 91505 910 5 00000	USB	(AB)
S06s	12140	28-4	0930	Fri	516 493 7 28548 59014 32424 75078 97520 27569 05518 493 7 00000	USB	(AB/ES)
S06s	13515	28-4	0940	Fri	516 493 7 28548 59014 32424 75078 97520 27569 05518 493 7 00000	USB	(AB)
S11a	18045	3-4	0715	Mon	381/00	USB	(AB-POL)
S11a	16112	3-4	1015	Mon	478/31 Vnimanaye 75643 34616 19189 ... 44066 70670 15136 Vnimanaye, rpt msg, konets	USB	(AB)
S11a	5358	4-4	0450	Tue	322/00	USB	(AB/ES)
S11a	7317	4-4	0915	Tue	486/00	USB	(AB/ES)
S11a	9960	4-4	1020	Tue	420/00	USB	(AB/ES)
S11a	18405	5-4	0715	Wed	387/00	USB	(AB-POL)
S11a	10800	5-4	1540	Wed	561/00	USB	(AB/MPJ)
S11a	4016	5-4	1955	Wed	379/00	USB	(AB/MPJ)
S11a	16112	6-4	1015	Thu	478/31 Vnimanaye 75643 34616 19189 ... 44066 70670 15136 Vnimanaye, rpt msg, konets	USB	(AB-I/ES)
S11a	5358	7-4	0455	Fri	322/00	USB	(AB/ES)
S11a	7317	7-4	0915	Fri	487/00	USB	(AB/ES)
S11a	9960	7-4	1020	Fri	429/00	USB	(AB)
S11a	4016	7-4	1955	Fri	376/00	USB	(AB/MPJ)
S11a	10800	8-4	1540	Sat	560/00	USB	(AB/MPJ)
S11a	18405	10-4	0715	Mon	382/00	USB	(AB-POL)
S11a	5358	11-4	0455	Tue	327/39 Vnimanaye 79126 00267 97762 ... 11082 62125 31326 Vnimanaye, rpt msg, konets	USB	(ES)
S11a	7317	11-4	0915	Tue	487/33 Vnimanaye 08912 62572 87080 ... 05407 20062 91406 Vnimanaye, rpt msg, konets	USB	(AB/ES)
S11a	9960	11-4	1020	Tue	427/40 Vnimanaye 42328 27364 67544 ... 24428 71437 06176 Vnimanaye, rpt msg, out	USB	(AB)
S11a	18405	12-4	0715	Wed	382/00	USB	(AB-POL)
S11a	4016	12-4	1955	Wed	377/00	USB	(AB/MPJ)
S11a	5358	14-4	0455	Fri	327/39 Vnimanaye 79126 00267 97762 ... 11082 62125 31326 Vnimanaye, rpt msg, konets	USB	(AB)
S11a	7317	14-4	0915	Fri	487/33 Attention 08912 62572 87080 ... 05407 20062 91406 Attention, rpt msg, out	USB	(AB)
S11a	9960	14-4	1020	Fri	427/40 Vnimanaye 42328 27364 67544 ... 24428 71437 06176 Vnimanaye, rpt msg, out	USB	(AB/ML4)
S11a	4016	14-4	1955	Fri	373/00	USB	(AB/MPJ)
S11a	10800	15-4	1540	Sat	563/00	USB	(AB/MPJ)
S11a	5358	18-4	0455	Tue	328/00	USB	(AB)
S11a	7317	18-4	0915	Tue	481/00	USB	(AB)
S11a	9960	18-4	1020	Tue	420/00	USB	(AB)
S11a	18405	19-4	0715	Wed	384/00	USB	(AB-POL)
S11a	10800	19-4	1540	Wed	466/00	USB	(AB)
S11a	4016	19-4	1955	Wed	373/32 Vnimanaye 54880 14965 14796 ... 76594 90583 63395 Vnimanaye, rpt msg, konets	USB	(AB)
S11a	4016	19-4	1955	Wed	377/00	USB	(AB/GHn/MPJ)
S11a	5358	21-4	0455	Fri	321/00	USB	(AB/ES)
S11a	7317	21-4	0915	Fri	484/00	USB	(AB)
S11a	9960	21-4	1020	Fri	420/00	USB	(AB/MPJ/ES)
S11a	4016	21-4	1955	Fri	379/00	USB	(AB/MPJ)
S11a	10800	22-4	1540	Sat	565/00	USB	(MPJ)
S11a	5358	25-4	0455	Tue	322/00	USB	(AB/ES)
S11a	7317	25-4	0915	Tue	482/00	USB	(AB/ES)
S11a	9960	25-4	1020	Tue	424/00	USB	(AB/ES/MPJ)

S11a	10800	26-4	1540	Wed	467/35 Vnimanaye 86596 ...	USB	(AB)
S11a	5358	28-4	0455	Fri	326/00	USB	(AB/ES)
S11a	7317	28-4	0915	Fri	480/00	USB	(AB)
S11a	9960	28-4	1020	Fri	425/00	USB	(AB/ES)
S11a	4016	28-4	1955	Fri	373/32 Vnimanaye 54880 14965 14796 ... 76594 90583 63395 Vnimanaye, rpt msg, konets	USB	(AB)
S11a	10800	29-4	1540	Sat	567/35 vnimanaye ...	USB	(AB)
S28	4625	1-4	1918	Sat	Buzzer channel marker	USB	(chpa)
S28	4625	6-4	1319	Thu	ZhUOZ 16187 DUVROChAJ 78848108 (CW interference due to bad channel separation)	USB	(Priyom)
S28	4625	6-4	1329	Thu	ZhUOZ 12494 GRIBOFUT 94070344 ISHIMOSTOK 62647974 (CW interference due to bad channel separation)	USB	(Priyom)
S28	4625	6-4	1436	Thu	ZhUOZ 50353 VZMYeT 68477981 BYeDOKURKA 01001091 (CW interference due to bad channel separation)	USB	(Priyom)
S28	4625	6-4	1455	Thu	ZhUOZ 57978 KLADChIK 15851564 (CW interference due to bad channel separation)	USB	(Priyom)
S28	4625	13-4	0901	Thu	ZhUOZ 87093 DIODOSLOM 41618641 (CW interference due to bad channel separation)	USB	(Priyom)
S28	4625	13-4	1012	Thu	ZhUOZ 97333 DAROKRON 79243467 BYeRYeZhNOST' 81951137 (CW interference due to bad channel separation)	USB	(Priyom)
S28	4625	13-4	1053	Thu	ZhUOZ 10312 BRAKOPAK 37431648 ZASTRYeVANIYe 83024709 (CW interference due to bad channel separation)	USB	(Priyom)
S28	4625	13-4	1136	Thu	ZhUOZ 82581 KOKSOHIMIYa 74687335 (CW interference due to bad channel separation)	USB	(Priyom)
S28	4625	13-4	1319	Thu	ZhUOZ 10797 BOGOZOB 51584274 (CW interference due to bad channel separation)	USB	(Priyom)
S28	4625	13-4	1327	Thu	ZhUOZ 24723 LYeGKOKRYLYJ 99616868 (CW interference due to bad channel separation)	USB	(Priyom)
S28	4625	13-4	1329	Thu	ZhUOZ 77869 BRAKOCHeS 92278147 (CW interference due to bad channel separation)	USB	(Priyom)
S28	4625	13-4	1336	Thu	ZhUOZ 82630 80801 KRYMOKOKOS 26903956 (CW interference due to bad channel separation)	USB	(Priyom)
S28	4625	13-4	1338	Thu	ZhUOZ 47528 KLINOSHvAB 47725401 (CW interference due to bad channel separation)	USB	(Priyom)
S28	4625	13-4	1341	Thu	ZhUOZ 49544 KRYeZOSHIFR 41494791 (CW interference due to bad channel separation)	USB	(Priyom)
S28	4625	13-4	1344	Thu	ZhUOZ 51900 37540 VYBBROSKA 17382691 (CW interference due to bad channel separation)	USB	(Priyom)
S28	4625	13-4	1404	Thu	ZhUOZ 64425 DYuRALYuMINIJ 49849526 (CW interference due to bad channel separation)	USB	(Priyom)
S28	4625	13-4	1441	Thu	Buzzer channel marker	USB	(AB-RUS)
S28	4625	17-4	1022	Mon	ZhUOZ 19593 KURDOTOL' 02722385 (CW interference due to bad channel separation)	USB	(Priyom)
S28	4625	17-4	1120	Mon	ZhUOZ 10390 ZACHITYVANIYe 41981556 (CW interference due to bad channel separation)	USB	(Priyom)
S28	9250	17-4	1755	Mon	Buzzer channel marker. Harmonic of 4625 kHz	USB	(SP1)
S28	9250	17-4	3043	Mon	Buzzer channel marker. Harmonic of 4625 kHz	USB	(AB)
S30	3756	1-4	1920	Sat	Pip channel marker	USB	(chpa)
S30	3756	13-4	0259	Thu	49FT 42BV 81BR 37949 62331 37185 ZOLOTUHA 09357784. Time mark after the message	USB	(Priyom)
S30	5448	13-4	1440	Thu	Pip channel marker (day freq)	USB	(AB-RUS)
S30	3756	13-4	1603	Thu	Pip channel marker (night freq)	USB	(AB-RUS)
S30	3756	13-4	1716	Thu	Y8VM 6I2Zh 8CSHchJ 27Shch' N1DU 53OB 78MV DEAY JH'J 12CI	USB	(Priyom)
S30	5448	23-4	1538	Sun	Pip channel amarker	USB	(AB-RUS)
S30	3756	23-4	1600	Sun	Pip channel amarker	USB	(AB-RUS)
S32	3828	1-4	1921	Sat	Squeaky Wheel channel marker	USB	(chpa)
S32	5473	13-4	1440	Thu	Squeaky Wheel channel marker (day freq)	USB	(AB-RUS)
S32	3828	13-4	1602	Thu	Squeaky Wheel channel marker (night freq)	USB	(AB-RUS)
S32	3828	13-4	1657	Thu	K3V' DSAS PMV5 08528 72293 23153 SOTKA 43886165	USB	(Priyom)
S32	3828	13-4	1730	Thu	PYeSOChNYJ-21 ShULER-60 STUPA-32 RYeZINA-38 BURKA-37	USB	(Priyom)

S32	5436	23-4	0703	Sun	Squeaky Wheel channel marker //5473 kHz	USB	(AB)
S32	5473	23-4	0703	Sun	Squeaky Wheel channel marker //5436 kHz	USB	(AB)
S32	5111	23-4	1536	Sun	Squeaky Wheel channel marker //5432//5453 kHz. Stops at 1538z on all freqs and switches to its night freq 3828 kHz	USB	(AB-RUS)
S32	5432	23-4	1536	Sun	Squeaky Wheel channel marker //5111//5453 kHz. Stops at 1538z on all freqs and switches to its night freq 3828 kHz	USB	(AB-RUS)
S32	5453	23-4	1536	Sun	Squeaky Wheel channel marker //5111//5432 kHz. Stops at 1538z on all freqs and switches to its night freq 3828 kHz	USB	(AB-RUS)
S32	3828	23-4	1539	Sun	Squeaky Wheel channel marker	USB	(AB-RUS)
S4020	4020	1-4	1646	Sat	Airhorn channel marker	USB	(chpa)
S4020	4020	11-4	1226	Tue	Air Horn channel marker	USB	(AB-RUS/Danix)
S4020	4020	13-4	1438	Thu	Air Horn channel marker	USB	(AB-RUS)
S4020	4020	18-4	1604	Tue	Airhorn channel marker	USB	(AB)
S4020	4020	19-4	1959	Wed	Airhorn channel marker	USB	(AB)
S4524	4524	18-4	1604	Tue	Dash channel marker	USB	(AB)
S4524	4524	25-4	1815	Tue	Dash channel marker	USB	(AB)
S4525	4524	11-4	1226	Tue	Dash channel marker	USB	(AB-RUS/Danix)
S4525	4524	13-4	1438	Thu	Dash channel marker	USB	(AB-RUS)
S5292	5292	13-4	1442	Thu	Channel marker D	USB	(AB-RUS)
S6360	6360	17-4	0559	Mon	OHVAT-98 45742 ATOLL 10418743. Counts before the message	USB	(Priyom)
S6360	6360	17-4	1256	Mon	OHVAT-98 49644 FURAN 01782575. Counts before the message	USB	(Priyom)
S6360	6360	17-4	1447	Mon	1 2 3 4 5 6 7 8 9 10 Test counts	USB	(Priyom)
S6360	6360	17-4	1638	Mon	Russian military. New channel marker	USB	(AB)
S6360	6360	17-4	1748	Mon	OHVAT-98 04723 BYESKROVNYJ 10922195. Counts before the message	USB	(Priyom)
S6360	6360	17-4	1800	Mon	Count followed by a message	USB	(tING)
S6360	6360	17-4	1800	Mon	Marker stopped; then a ten count in Russian follo- wed by a message	USB	(tING)
S6360	3012	17-4	1932	Mon	Channel marker	USB	(AB)
S6360	6360	18-4	1605	Tue	channel marker	USB	(AB)
S6360	6360	24-4	1627	Mon	Channel marker	USB	(AB)
S6360	6360	25-4	1050	Tue	10-counts before the message. Okhvat-98 Okhvat-98 45 742 ATOLL 10 41 87 43 Priyom	USB	(AB-POL)
S6930	4224	17-4	1252	Mon	KATOK-65 49644 FURAN 01782575 Counts before the message. Same message on S6360	USB	(Priyom)
UM03	7920	3-4	0943	Mon	X2M i.p. CK 100 CK 100 TIME 1643 TIME 1643 DATE 0404 DATE 0404 = 4N7UD 5T3A7 D4U5N .NTD3 7U.3N ... (7920//8250//8410 kHz)	CW	(JPL-NZL)
UM03	8250	3-4	0943	Mon	X2M i.p. CK 100 CK 100 TIME 1643 TIME 1643 DATE 0404 DATE 0404 = 4N7UD 5T3A7 D4U5N .NTD3 7U.3N ... (7920//8250//8410 kHz)	CW	(JPL-NZL)
UM03	8410	3-4	0943	Mon	X2M i.p. CK 100 CK 100 TIME 1643 TIME 1643 DATE 0404 DATE 0404 = 4N7UD 5T3A7 D4U5N .NTD3 7U.3N ... (7920//8250//8410 kHz)	CW	(JPL-NZL)
UM03	4065	6-4	1729	Thu	10-mins net: NZO6	CW	(JPL-NZL)
UM03	3315	6-4	1737	Thu	10-mins net: S3DN //3955 kHz	CW	(JPL-NZL)
UM03	3955	6-4	1737	Thu	10-mins net: S3DN //3315 kHz	CW	(JPL-NZL)
UM03	7920	7-4	0852	Fri	X2M i.p. AR 09 09 CK 100 CK 100 TIME 1... TIME 1555 DATE 0704 DATE 0704 = ..D4. 4D5T. ... (7920//8250//8410 kHz)	CW	(JPL-NZL)
UM03	8410	7-4	0852	Fri	X2M i.p. AR 09 09 CK 100 CK 100 TIME 1... TIME 1555 DATE 0704 DATE 0704 = ..D4. 4D5T. ... (7920//8250//8410 kHz)	CW	(JPL-NZL)
UM03	8410	7-4	0852	Fri	X2M i.p. AR 09 09 CK 100 CK 100 TIME 1... TIME 1555 DATE 0704 DATE 0704 = ..D4. 4D5T. ... (7920//8250//8410 kHz)	CW	(JPL-NZL)
UM03	10178	8-4	1115	Sat	II II CH NR 07 NR 07 CK 44 CK 44 TK TK DATE 0804 TIME 1830 TIME 1830 = = 83683 49902 51417 ... 72181 50567 49037 AR AR ZNN K OK VA VA T	CW	(JPL-NZL)
UM03	10217	10-4	0959	Mon	i.p. D1P MSG MSG CH CH K. VVV (x 2) 3RT (x3) DE D1P (x3) MSG (2) CH (x2) K K	CW	(JPL-NZL)
UM03	7920	11-4	0948	Tue	X2M i.p. 07 07 CK 100 CK 100 TIME 1547 TIME 1547	CW	(JPL-NZL)

					DATE 1104 DATE 1104 = (7920//8250//8410 kHz)		
UM03	8250	11-4	0948	Tue	X2M i.p. 07 07 CK 100 CK 100 TIME 1547 TIME 1547 DATE 1104 DATE 1104 = (7920//8250//8410 kHz)	CW	(JPL-NZL)
UM03	8410	11-4	0948	Tue	X2M i.p. 07 07 CK 100 CK 100 TIME 1547 TIME 1547 DATE 1104 DATE 1104 = (7920//8250//8410 kHz)	CW	(JPL-NZL)
UM03	7920	13-4	0919	Thu	X2M i.p. AR 17 17 CK 100 CK 100 TIME 1619 TIME 1619 DATE 1304 DATE 1304 = NT6U. 3NT6U T6374 U7D45 ... (on 7920//8250//8410 kHz)	CW	(JPL-NZL)
UM03	8250	13-4	0919	Thu	X2M i.p. AR 17 17 CK 100 CK 100 TIME 1619 TIME 1619 DATE 1304 DATE 1304 = NT6U. 3NT6U T6374 U7D45 ... (on 7920//8250//8410 kHz)	CW	(JPL-NZL)
UM03	8410	13-4	0919	Thu	X2M i.p. AR 17 17 CK 100 CK 100 TIME 1619 TIME 1619 DATE 1304 DATE 1304 = NT6U. 3NT6U T6374 U7D45 ... (on 7920//8250//8410 kHz)	CW	(JPL-NZL)
UM03	7920	14-4	0924	Fri	i.p. CQ (x3) DE X2M (x2) VVV (x3) MSG (x2) ENG (x2) 61 61 CK 100 CK 100 TIME 1631 TIME 1631 DATE 1404 DATE 1404 = (on 7920//8250//8410 kHz)	CW	(JPL-NZL)
UM03	8250	14-4	0924	Fri	i.p. CQ (x3) DE X2M (x2) VVV (x3) MSG (x2) ENG (x2) 61 61 CK 100 CK 100 TIME 1631 TIME 1631 DATE 1404 DATE 1404 = (on 7920//8250//8410 kHz)	CW	(JPL-NZL)
UM03	8410	14-4	0924	Fri	i.p. CQ (x3) DE X2M (x2) VVV (x3) MSG (x2) ENG (x2) 61 61 CK 100 CK 100 TIME 1631 TIME 1631 DATE 1404 DATE 1404 = (on 7920//8250//8410 kHz)	CW	(JPL-NZL)
UM03	7920	15-4	0924	Sat	X2M i.p. AR 19 19 CK 100 CK 100 TIME 1623 TIME 1623 DATE 1504 DATE 1504 = 73A4T 3A4TN ... //8410 kHz	CW	(JPL-NZL)
UM03	8410	15-4	0924	Sat	X2M i.p. AR 19 19 CK 100 CK 100 TIME 1623 TIME 1623 DATE 1504 DATE 1504 = 73A4T 3A4TN ... //7920 kHz	CW	(JPL-NZL)
UM03	6580	15-4	1820	Sat	tentative UM03 i.p.: 4AS4A U4A5N UNT43 4N635 6NDU7 4NNA5 4NTA4 5TN6D 4NNA5 4NTU4 5T775 4N7TD 4NAAA ...	CW	(JPL-NZL)
UM03	9128	15-4	1835	Sat	tentative UM03 i.p.: 50775 4N7AN 5T466 4N7UU 4N7UU 4N7TD 4N7UN 5T775 4N7TD 4N337 5T775 5T775 5T35T 5TU57 4635N AR	CW	(JPL-NZL)
UM03	7474	17-4	1109	Mon	VVV RMQE (x3) DE YHDI (x3) = YR NR 06 MSG QSL TIME 1806 AR	CW	(JPL-NZL)
UM03	7920	18-4	0940	Tue	X2M i.p. 74DN5 DN56U 56U4T ... AR 05 //8410 kHz	CW	(JPL-NZL)
UM03	8410	18-4	0940	Tue	X2M i.p. 74DN5 DN56U 56U4T ... AR 05 //7920 kHz	CW	(JPL-NZL)
UM03	7920	25-4	0920	Tue	X2M i.p. AR 17 17 CK 100 CK 100 TIME 1519 TIME 1619 DATE 2504 DATE 2504 = NT.. //8250//8410 kHz	CW	(JPL-NZL)
UM03	8250	25-4	0920	Tue	X2M i.p. AR 17 17 CK 100 CK 100 TIME 1519 TIME 1619 DATE 2504 DATE 2504 = NT.. //7920//8410 kHz	CW	(JPL-NZL)
UM03	8410	25-4	0920	Tue	X2M i.p. AR 17 17 CK 100 CK 100 TIME 1519 TIME 1619 DATE 2504 DATE 2504 = NT.. //7920//8250 kHz	CW	(JPL-NZL)
UM03	3568	30-4	1350	Sun	10-mins net: NZO6 //4065 kHz	CW	(JPL-NZL)
UM03	4065	30-4	1350	Sun	10-mins net: NZO6 //3568 kHz	CW	(JPL-NZL)
UM10	5845	5-4	1010	Wed	10-mins net: ZUBW	CW	(JPL-NZL)
UM10	3568	5-4	1529	Wed	10-mins net: NZO5 //4065 kHz	CW	(JPL-NZL)
UM10	4065	5-4	1529	Wed	10-mins net: NZO5 //3568 kHz	CW	(JPL-NZL)
UM10	3568	5-4	1658	Wed	10-mins net: NZO5 //4065 kHz	CW	(JPL-NZL)
UM10	4065	5-4	1658	Wed	10-mins net: NZO5 //3568 kHz	CW	(JPL-NZL)
UM10	3315	9-4	1805	Sun	10-mins net: S3DN	CW	(F5JBR-J)
UM10	3568	9-4	1850	Sun	10-mins net: NZO6 //4065 kHz	CW	(F5JBR-J)
UM10	4065	9-4	1850	Sun	10-mins net: NZO6 //3568 kHz	CW	(F5JBR-J)
UM10	3568	10-4	1550	Mon	10-mins net: NZO6 //4065 kHz	CW	(F5JBR-J)
UM10	4065	10-4	1550	Mon	10-mins net: NZO6 //3568 kHz	CW	(F5JBR-J)
UM10	3568	14-4	1456	Fri	10-mins net: NZO6 //4065 kHz	CW	(JPL-NZL)
UM10	4065	14-4	1456	Fri	10-mins net: NZO6 //3568 kHz	CW	(JPL-NZL)
UM10	3568	14-4	1629	Fri	10-mins net: NZO6 //4065 kHz	CW	(JPL-NZL)
UM10	4065	14-4	1629	Fri	10-mins net: NZO6 //3568 kHz	CW	(JPL-NZL)
UM10	7378	17-4	1028	Mon	10-mins net: RVOX. New callsign and freq.	CW	(JPL-NZL)
UM10	3568	17-4	1750	Mon	10-mins net: NZO6 //4065 kHz	CW	(F5JBR-J)
UM10	4065	17-4	1750	Mon	10-mins net: NZO6 //3568 kHz	CW	(F5JBR-J)
UM10	3568	22-4	1751	Sat	10-mins net: NZO6 //4065 kHz	CW	(JPL-NZL)
UM10	4065	22-4	1751	Sat	10-mins net: NZO6 //3568 kHz	CW	(JPL-NZL)
UM10	3568	23-4	1758	Sun	10-mins net: NZO6 //4065 kHz	CW	(JPL-NZL)

UM10	4065	23-4	1758	Sun	10-mins net: NZO6 //3568 kHz	CW	(JPL-NZL)
V07	14823	3-4	0300	Mon	845 845 845 1 ...	USB	(Dan)
V07	13423	3-4	0320	Mon	845 845 845 1 ...	USB	(Dan)
V07	11523	3-4	0340	Mon	845 845 845 1 ...	USB	(Dan)
V07	14823	9-4	0300	Sun	845 845 845 000	USB	(Dan)
V07	13423	9-4	0320	Sun	845 845 845 000	USB	(Dan)
V07	14823	16-4	0300	Sun	845 845 845 1 546 71 83016 37038 65715 000 000	USB	(Dan)
V07	13423	16-4	0320	Sun	845 845 845 1 546 71 83016 37038 65715 000 000	USB	(Dan)
V07	11523	16-4	0340	Sun	845 845 845 1 546 71 83016 37038 65715 000 000	USB	(Dan)
V07	14823	23-4	0300	Sun	845 845 845 000	USB	(Dan)
V07	13423	23-4	0320	Sun	845 845 845 000	USB	(Dan)
V13	11430	13-4	0508	Thu	New Star Broadcasting Station i.p.	AM	(AB-J)
V13	11430	13-4	0617	Thu	New Star Broadcasting Station i.p.	AM	(AB-J)
V15	6400	27-4	1615	Thu	North Korean numbers transmission	AM	(kimi)
V24	4900	27-4	1530	Thu	South Korean numbers	AM	(PW2)
V26	4243	4-4	1139	Tue	Callup in Chinese. Female operator //9054 kHz	USB	(JPL-NZL)
V26	9054	4-4	1139	Tue	Callup in Chinese. Female operator //4243 kHz	USB	(JPL-NZL)
V26	4243	4-4	1218	Tue	Messages in Chinese. Female operator //9054 kHz	USB	(JPL-NZL)
V26	9054	4-4	1218	Tue	Messages in Chinese. Female operator //4243 kHz	USB	(JPL-NZL)
V26	4364	5-4	1130	Wed	Callup in Chinese. Male operator //8073 kHz	USB	(JPL-NZL)
V26	8073	5-4	1130	Wed	Callup in Chinese. Male operator //4364 kHz	USB	(JPL-NZL)
V26	4243	6-4	1209	Thu	Messages in Chinese. Female operator //9054 kHz	USB	(JPL-NZL)
V26	9054	6-4	1209	Thu	Messages in Chinese. Female operator //4243 kHz	USB	(JPL-NZL)
V26	4243	7-4	1222	Fri	Messages in Chinese. Female operator //9054 kHz	USB	(JPL-NZL)
V26	9054	7-4	1222	Fri	Messages in Chinese. Female operator //4243 kHz	USB	(JPL-NZL)
V26	4243	10-4	1220	Mon	Messages in Chinese. Female operator //9054 kHz	USB	(JPL-NZL)
V26	9054	10-4	1220	Mon	Messages in Chinese. Female operator //4243 kHz	USB	(JPL-NZL)
V26	9054	15-4	0917	Sat	Messages in Chinese. Female operator	USB	(JPL-NZL)
V26	4364	16-4	1130	Sun	Callup in Chinese //8073 kHz	USB	(JPL-NZL)
V26	8073	16-4	1130	Sun	Callup in Chinese //4364 kHz	USB	(JPL-NZL)
V26	4364	22-4	1130	Sat	Callup in Chinese. Male operator //8973 kHz	USB	(JPL-NZL)
V26	8073	22-4	1130	Sat	Callup in Chinese. Male operator //4364 kHz	USB	(JPL-NZL)
V26	4243	22-4	1222	Sat	Messages in Chinese. Female operator //9054 kHz	USB	(JPL-NZL)
V26	9054	22-4	1222	Sat	Messages in Chinese. Female operator //4243 kHz	USB	(JPL-NZL)
V26	4243	24-4	1129	Mon	Callup in Chinese. Female operator //9054 kHz	USB	(JPL-NZL)
V26	9054	24-4	1129	Mon	Callup in Chinese. Female operator //4243 kHz	USB	(JPL-NZL)
V26	4364	24-4	1130	Mon	Callup in Chinese. Male operator //8073 kHz	USB	(JPL-NZL)
V26	8073	24-4	1130	Mon	Callup in Chinese. Male operator //4364 kHz	USB	(JPL-NZL)
V26	4243	24-4	1200	Mon	Messages in Chinese. Female operator //9054	USB	(JPL-NZL)
V26	9054	24-4	1200	Mon	Messages in Chinese. Female operator //4243 kHz	USB	(JPL-NZL)
V28	3067	27-4	1030	Thu	Parrot. North Korean numbers transmission	USB	(kimi)
V28	3277	27-4	1030	Thu	Parrot. North Korean numbers transmission	USB	(kimi)
VC01	5433	9-4	1846	Sun	Chinese Robot	USB	(JPL-NZL)
VC01	5433	17-4	1119	Mon	Chinese Robot	USB	(JPL-NZL)
VC01	5433	18-4	1115	Tue	Chinese Robot	USB	(NC)
VC01	5433	18-4	1358	Tue	Chinese Robot	USB	(AB-NZL)
VC01	5433	21-4	1000	Fri	Chinese Robot	USB	(NC)
VC01	5439	21-4	1000	Fri	Chinese Robot	LSB	(NC)
VC01	5433	21-4	1042	Fri	Chinese Robot	USB	(AB-NZL)
X06	13401	4-4	0833	Tue	Mazielka. Sequenc: 154263	MFSK	(ES)
X06	13419	12-4	0934	Wed	Mazielka. Sequence: 465132	MFSK	(ES)
X06	11548	15-4	0625	Sat	Mazielka. Sequence: 1--6--	MFSK	(AB)
X06	12138	19-4	0829	Wed	Mazielka i.p. Sequence: 362154	MFSK	(ES)
X06	16257	25-4	0834	Tue	Mazielka. Sequence: 542136	MFSK	(ES)
X06b	16147	7-4	1409	Fri	Mazielka. Sequence: 1--6-- before XPA2	MFSK	(AB)
X06b	16114	7-4	1805	Fri	Mazielka. Sequence: 1--6--	MFSK	(Dan)
X06b	16114	7-4	1810	Fri	Mazielka. Sequence: 1--6--	MFSK	(Dan)
X06b	16114	7-4	1812	Fri	Mazielka. Sequence: 1--6--	MFSK	(Dan)
X06b	16114	7-4	1814	Fri	Mazielka. Sequence: 1--6--	MFSK	(Dan)
X06b	14828	8-4	1820	Sat	Mazielka. Sequence: 1--6-- before XPA2	MFSK	(Dan)
X06b	14828	8-4	1823	Sat	Mazielka. Sequence: 1--6-- before XPA2	MFSK	(Dan)
X06b	17462	8-4	1825	Sat	Mazielka. Sequence: 1--6-- before XPA2	MFSK	(Dan)
X06b	16114	8-4	1828	Sat	Mazielka. Sequence: 1--6-- before XPA2	MFSK	(Dan)
X06b	14447	9-4	1355	Sun	Mazielka. Sequence: 1--6-- before XPA2	MFSK	(Dan)

X06b	14947	9-4	1356	Sun	Mazielka. Sequence: 1--6-- before XPA2	MFSK	(Dan)
X06b	16147	9-4	1357	Sun	Mazielka. Sequence: 1--6-- before XPA2	MFSK	(Dan)
X06b	14947	9-4	1358	Sun	Mazielka. Sequence: 1--6-- before XPA2	MFSK	(Dan)
X06b	16147	9-4	1359	Sun	Mazielka. Sequence: 1--6-- before XPA2	MFSK	(Dan)
X06b	16100	13-4	1222	Thu	Mazielka. Sequence: 6--1-- ends 1259 UTC	MFSK	(AB)
X06b	14947	14-4	1410	Fri	Mazielka. Sequence: 1--6-- before XPA2	MFSK	(Dan)
X06b	16147	14-4	1411	Fri	Mazielka. Sequence: 1--6-- before XPA2	MFSK	(Dan)
X06b	16147	14-4	1414	Fri	Mazielka. Sequence: 1--6-- before XPA2	MFSK	(Dan)
X06b	16147	14-4	1421	Fri	Mazielka. Sequence: 1--6-- before XPA2	MFSK	(Dan)
X06b	10212.	22-4	1700	Sat	Mazielka. Sequence: 6--1--	MFSK	(AB)
5							
X06b	11650	25-4	1137	Tue	Mazielka i.p. Sequence: 1--6--	MFSK	(ES)
X06b	11650	25-4	1158	Tue	Mazielka. Sequence: 1--6--	MFSK	(ES)
X06b	14447	30-4	1405	Sun	Mazielka. Sequence: 1--6-- before XPA2	MFSK	(Dan)
X06b	16147	30-4	1406	Sun	Mazielka. Sequence: 1--6-- before XPA2	MFSK	(Dan)
X06b	14947	30-4	1407	Sun	Mazielka. Sequence: 1--6-- before XPA2	MFSK	(Dan)
X06b	16147	30-4	1408	Sun	Mazielka. Sequence: 1--6-- before XPA2	MFSK	(Dan)
X06b	14447	30-4	1412	Sun	Mazielka. Sequence: 1--6-- before XPA2	MFSK	(Dan)
X06b	14447	30-4	1419	Sun	Mazielka. Sequence: 1--6-- before XPA2	MFSK	(Dan)
X06b	16147	30-4	1420	Sun	Mazielka. Sequence: 1--6-- before XPA2	MFSK	(Dan)
X06b	14947	30-4	1421	Sun	Mazielka. Sequence: 1--6-- before XPA2	MFSK	(Dan)
X06b	16147	30-4	1423	Sun	Mazielka. Sequence: 1--6-- before XPA2	MFSK	(Dan)
X06b	14447	30-4	1426	Sun	Mazielka. Sequence: 1--6-- before XPA2	MFSK	(Dan)
X06b	14947	30-4	1428	Sun	Mazielka. Sequence: 1--6-- before XPA2	MFSK	(Dan)
X06b	16147	30-4	1429	Sun	Mazielka. Sequence: 1--6-- before XPA2	MFSK	(Dan)
X06c	12190	7-4	1100	Fri	Mazielka. Sequence: 123456	MFSK	(ES)
X06c	12190	7-4	1100	Fri	Mazielka. Sequence: 123456	MFSK	(ES)
X06c	12214	10-4	0934	Mon	Mazielka. Sequence: 463125	MFSK	(ES)
XPA	10359	1-4	0600	Sat	355 355 355 000 01376 00001 00000 10140	MFSK-20/10Bd	(AB/ES)
XPA	11559	1-4	0620	Sat	355 355 355 000 01376 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	13559	1-4	0640	Sat	355 355 355 000 01376 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	10359	5-4	0600	Wed	355 1 06701 00151 01622 ... 95615 67315 06742	MFSK-20/10Bd	(AB)
XPA	11559	5-4	0620	Wed	355 1 06701 00151 01622 ... 95615 67315 06742	MFSK-20/10Bd	(AB)
XPA	13559	5-4	0640	Wed	355 1 06701 00151 01622 ... 95615 67315 06742	MFSK-20/10Bd	(AB)
XPA	10359	8-4	0600	Sat	355 1 06701 00151 01622 ... 95615 67315 06742	MFSK-20/10Bd	(AB)
XPA	11559	8-4	0620	Sat	355 1 06701 00151 01622 ... 95615 67315 06742	MFSK-20/10Bd	(AB)
XPA	13559	8-4	0640	Sat	355 1 06701 00151 01622 ... 95615 67315 06742	MFSK-20/10Bd	(AB)
XPA	10359	12-4	0600	Wed	355 355 355 000 04634 00001 00000 10140	MFSK-20/10Bd	(AB/HFD)
XPA	11559	12-4	0620	Wed	355 355 355 000 04634 00001 00000 10140	MFSK-20/10Bd	(AB/HFD)
XPA	13559	12-4	0640	Wed	355 355 355 000 04634 00001 00000 10140	MFSK-20/10Bd	(AB/HFD)
XPA	10359	15-4	0600	Sat	355 355 355 000 04971 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	11559	15-4	0620	Sat	355 355 355 000 04971 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	13559	15-4	0640	Sat	355 355 355 000 04971 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	10359	19-4	0600	Wed	355 1 02022 00137 85862 ... 43501 13974 70444	MFSK-20/10Bd	(AB)
XPA	11559	19-4	0620	Wed	355 1 02022 00137 85862 ... 43501 13974 70444	MFSK-20/10Bd	(AB)
XPA	13559	19-4	0640	Wed	355 1 02022 00137 85862 ... 43501 13974 70444	MFSK-20/10Bd	(AB)
XPA	10359	22-4	0600	Sat	355 1 02022 00137 85862 ... 43501 13974 70444	MFSK-20/10Bd	(AB)
XPA	11559	22-4	0620	Sat	355 1 02022 00137 85862 ... 43501 13974 70444	MFSK-20/10Bd	(AB)
XPA	13559	22-4	0640	Sat	355 1 02022 00137 85862 ... 43501 13974 70444	MFSK-20/10Bd	(AB)
XPA	10359	26-4	0600	Wed	355 355 355 000 06637 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	11559	26-4	0620	Wed	355 355 355 000 06637 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	13559	26-4	0640	Wed	355 355 355 000 06637 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	10359	29-4	0600	Sat	355 355 355 000 08475 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	11559	29-4	0620	Sat	355 355 355 000 08475 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	13559	29-4	0640	Sat	355 355 355 000 08475 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA2	16147	2-4	1500	Sun	06048 00001 00000 10140	MFSK-16-20Bd	(AB/MPJ)
XPA2	14947	2-4	1520	Sun	06048 00001 00000 10140	MFSK-16-20Bd	(AB/MPJ)
XPA2	14447	2-4	1540	Sun	06048 00001 00000 10140	MFSK-16-20Bd	(AB/MPJ)
XPA2	14538	2-4	1800	Sun	07204 00093 26499 ... 85425 35444 13315	MFSK-16-20Bd	(AB/MPJ)
XPA2	13538	2-4	1820	Sun	07204 00093 26499 ... 85425 35444 13315	MFSK-16-20Bd	(AB/MPJ)
XPA2	12138	2-4	1840	Sun	07204 00093 26499 ... 85425 35444 13315	MFSK-16-20Bd	(AB/MPJ)
XPA2	16347	4-4	0700	Tue	02369 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	17447	4-4	0720	Tue	02369 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	18747	4-4	0740	Tue	02369 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14538	4-4	1800	Tue	07204 00093 26499 ... 85425 35444 13315	MFSK-16-20Bd	(AB/MPJ/HFD)
XPA2	13538	4-4	1820	Tue	07204 00093 26499 ... 85425 35444 13315	MFSK-16-20Bd	(AB/MPJ/HFD)
XPA2	12138	4-4	1840	Tue	07204 00093 26499 ... 85425 35444 13315	MFSK-16-20Bd	(AB/MPJ/HFD)

XPA2	16347	7-4	0700	Fri	08133 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	17447	7-4	0720	Fri	08133 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	18747	7-4	0740	Fri	08133 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	16147	7-4	1500	Fri	08547 00147 52586 ... 57790 66768 45671	MFSK-16/20Bd	(AB/MPJ/HFD)
XPA2	14947	7-4	1520	Fri	08547 00147 52586 ... 57790 66768 45671	MFSK-16/20Bd	(AB/GHn/MPJ/MDK 2/HFD)
XPA2	14447	7-4	1540	Fri	08547 00147 52586 ... 57790 66768 45671	MFSK-16/20Bd	(AB/MPJ/HFD)
XPA2	17462	7-4	1900	Fri	04116 00061 31080 70460 ... 55365 35672 44844 47126	MFSK-16/20Bd	(Dan/HFD)
XPA2	16114	7-4	1920	Fri	04116 00061 31080 70460 ... 55365 35672 44844 47126	MFSK-16/20Bd	(Dan/MPJ/HFD)
XPA2	14828	7-4	1940	Fri	04116 00061 31080 70460 ... 55365 35672 44844 47126	MFSK-16/20Bd	(Dan/MPJ/HFD)
XPA2	17462	8-4	1900	Sat	04116 00061 31080 70460 ... 55365 35672 44844 47126	MFSK-16/20Bd	(AB/Dan/RL)
XPA2	16114	8-4	1920	Sat	04116 00061 31080 70460 ... 55365 35672 44844 47126	MFSK-16/20Bd	(AB/Dan/RL)
XPA2	14828	8-4	1940	Sat	04116 00061 31080 70460 ... 55365 35672 44844 47126	MFSK-16/20Bd	(AB/Dan)
XPA2	16147	9-4	1500	Sun	08547 00147 52586 ... 57790 66768 45671	MFSK-16/20Bd	(AB)
XPA2	14947	9-4	1520	Sun	08547 00147 52586 ... 57790 66768 45671	MFSK-16/20Bd	(AB-I)
XPA2	14447	9-4	1540	Sun	08547 00147 52586 ... 57790 66768 45671	MFSK-16/20Bd	(AB-I/MPJ)
XPA2	14538	9-4	1800	Sun	07810 00001 00000 10140	MFSK-16-20Bd	(AB/MPJ)
XPA2	13538	9-4	1820	Sun	07810 00001 00000 10140	MFSK-16-20Bd	(AB/MPJ)
XPA2	12138	9-4	1840	Sun	07810 00001 00000 10140	MFSK-16-20Bd	(AB/MPJ)
XPA2	16347	11-4	0700	Tue	Message	MFSK-16/20Bd	(AB)
XPA2	17447	11-4	0720	Tue	Message	MFSK-16/20Bd	(AB)
XPA2	18747	11-4	0740	Tue	Message	MFSK-16/20Bd	(AB)
XPA2	14538	11-4	1800	Tue	08601 00001 00000 10140	MFSK-16-20Bd	(AB/MPJ)
XPA2	13538	11-4	1820	Tue	08601 00001 00000 10140	MFSK-16-20Bd	(AB/RL)
XPA2	12138	11-4	1840	Tue	08601 00001 00000 10140	MFSK-16-20Bd	(AB/MPJ)
XPA2	16147	14-4	1500	Fri	09975 00001 00000 10140	MFSK-16/20Bd	(AB/Dan/RL)
XPA2	14947	14-4	1520	Fri	09975 00001 00000 10140	MFSK-16/20Bd	(AB/Dan/MPJ)
XPA2	14447	14-4	1540	Fri	09975 00001 00000 10140	MFSK-16/20Bd	(AB/Dan)
XPA2	17462	14-4	1900	Fri	09211 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	16114	14-4	1920	Fri	09211 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14828	14-4	1940	Fri	09211 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	17462	15-4	1900	Sat	02317 00001 00000 10140	MFSK-16/20Bd	(AB/Dan/RL)
XPA2	16114	15-4	1920	Sat	02317 00001 00000 10140	MFSK-16/20Bd	(AB/Dan/RL)
XPA2	14828	15-4	1940	Sat	02317 00001 00000 10140	MFSK-16/20Bd	(AB/Dan)
XPA2	16147	16-4	1500	Sun	03888 00000 00000 10040	MFSK-16/20Bd	(AB/MPJ/RL)
XPA2	14947	16-4	1520	Sun	03888 00000 00000 10040	MFSK-16/20Bd	(AB/MPJ)
XPA2	14447	16-4	1540	Sun	03888 00000 00000 10040	MFSK-16/20Bd	(AB)
XPA2	14538	16-4	1800	Sun	04581 00101 53391 ... 56085 73966 45263	MFSK-16-20Bd	(AB/GHn/MPJ)
XPA2	13538	16-4	1820	Sun	04581 00101 53391 ... 56085 73966 45263	MFSK-16-20Bd	(AB/MPJ)
XPA2	12138	16-4	1840	Sun	04581 00101 53391 ... 56085 73966 45263	MFSK-16-20Bd	(AB/MPJ)
XPA2	16347	18-4	0700	Tue	01005 00001 00000 10140	MFSK-16/20Bd	(AB-I)
XPA2	17447	18-4	0720	Tue	01005 00001 00000 10140	MFSK-16/20Bd	(AB-I)
XPA2	18747	18-4	0740	Tue	01005 00001 00000 10140	MFSK-16/20Bd	(AB-I)
XPA2	14538	18-4	1800	Tue	04581 00101 53391 ... 56085 73966 45263	MFSK-16-20Bd	(AB/MPJ)
XPA2	13538	18-4	1820	Tue	04581 00101 53391 ... 56085 73966 45263	MFSK-16-20Bd	(AB/MPJ)
XPA2	12138	18-4	1840	Tue	04581 00101 53391 ... 56085 73966 45263	MFSK-16-20Bd	(AB/MPJ)
XPA2	16347	21-4	0700	Fri	06355 00001 00000 10140	MFSK-16/20Bd	(AB-RUS)
XPA2	17447	21-4	0720	Fri	06355 00001 00000 10140	MFSK-16/20Bd	(AB-RUS)
XPA2	18747	21-4	0740	Fri	06355 00001 00000 10140	MFSK-16/20Bd	(AB-RUS)
XPA2	16147	21-4	1500	Fri	07850 00103 09421 ... 19515 54584 16364	MFSK-16/20Bd	(AB/MPJ)
XPA2	14947	21-4	1520	Fri	07850 00103 09421 ... 19515 54584 16364	MFSK-16/20Bd	(AB/MPJ)
XPA2	14447	21-4	1540	Fri	07850 00103 09421 ... 19515 54584 16364	MFSK-16/20Bd	(AB/MPJ)
XPA2	17462	21-4	1900	Fri	08648 00107 44010 ... 41531 22220 14705	MFSK-16/20Bd	(AB)
XPA2	16114	21-4	1920	Fri	08648 00107 44010 ... 41531 22220 14705	MFSK-16/20Bd	(AB)
XPA2	14828	21-4	1940	Fri	08648 00107 44010 ... 41531 22220 14705	MFSK-16/20Bd	(AB/MPJ)
XPA2	16147	23-4	1500	Sun	07850 00103 09421 ... 19515 54584 16364	MFSK-16/20Bd	(AB)
XPA2	14947	23-4	1520	Sun	07850 00103 09421 ... 19515 54584 16364	MFSK-16/20Bd	(AB)
XPA2	14447	23-4	1540	Sun	07850 00103 09421 ... 19515 54584 16364	MFSK-16/20Bd	(AB)
XPA2	14538	23-4	1800	Sun	07557 00001 00000 10140	MFSK-16-20Bd	(AB/MPJ)
XPA2	13538	23-4	1820	Sun	07557 00001 00000 10140	MFSK-16-20Bd	(AB/MPJ)
XPA2	12138	23-4	1840	Sun	07557 00001 00000 10140	MFSK-16-20Bd	(AB/MPJ)

XPA2	16347	25-4	0700	Tue	05338 00085 60596 ... 57507 78347 30552	MFSK-16/20Bd	(AB)
XPA2	17447	25-4	0720	Tue	05338 00085 60596 ... 57507 78347 30552	MFSK-16/20Bd	(AB-I)
XPA2	18747	25-4	0740	Tue	05338 00085 60596 ... 57507 78347 30552	MFSK-16/20Bd	(AB-RUS)
XPA2	14538	25-4	1800	Tue	02451 00001 00000 10140	MFSK-16-20Bd	(AB/MPJ)
XPA2	13538	25-4	1820	Tue	02451 00001 00000 10140	MFSK-16-20Bd	(AB/MPJ)
XPA2	12138	25-4	1840	Tue	02451 00001 00000 10140	MFSK-16-20Bd	(AB/MPJ)
XPA2	16347	28-4	0700	Fri	05338 00085 60596 ... 56507 77336 30552	MFSK-16/20Bd	(AB-RUS)
XPA2	17447	28-4	0720	Fri	05338 00085 60596 ... 56507 77336 30552	MFSK-16/20Bd	(AB-RUS)
XPA2	18747	28-4	0740	Fri	05338 00085 60596 ... 56507 77336 30552	MFSK-16/20Bd	(AB-RUS)
XPA2	16147	28-4	1500	Fri	08061 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	14947	28-4	1520	Fri	08061 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	14447	28-4	1540	Fri	08061 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	17462	28-4	1900	Fri	05816 00000 00000 10140	MFSK-16/20Bd	(AB-RUS/MPJ)
XPA2	16114	28-4	1920	Fri	05816 00000 00000 10140	MFSK-16/20Bd	(AB-RUS/MPJ)
XPA2	14828	28-4	1940	Fri	05816 00000 00000 10140	MFSK-16/20Bd	(AB-RUS)
XPA2	17462	29-4	1900	Sat	01605 00001 00000 10140	MFSK-16/20Bd	(AnEur)
XPA2	16114	29-4	1920	Sat	01605 00001 00000 10140	MFSK-16/20Bd	(AnEur/MPJ)
XPA2	14828	29-4	1940	Sat	01605 00001 00000 10140	MFSK-16/20Bd	(AnEur/MPJ)
XPA2	16147	30-4	1500	Sun	05034 00001 00000 10140	MFSK-16/20Bd	(AB/Dan)
XPA2	14947	30-4	1520	Sun	05034 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ/Dan)
XPA2	14447	30-4	1540	Sun	05034 00001 00000 10140	MFSK-16/20Bd	(AB/Dan)
XPA2	14538	30-4	1800	Sun	08229 00085 04079 ... 78949 07201 76727	MFSK-16-20Bd	(AB/MPJ)
XPA2	13538	30-4	1820	Sun	08229 00085 04079 ... 78949 07201 76727	MFSK-16-20Bd	(AB/MPJ)
XPA2	12138	30-4	1840	Sun	08229 00085 04079 ... 78949 07201 76727	MFSK-16-20Bd	(AB/GHn/MPJ)

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AB-GRC	Ary Boender via remote rx Greece	HFD-USA	Hans-Friedrich Dumrese via remote rx USA
AB-I	Ary Boender via remote rx Italy	JPL	JPL, Ontario, Canada (and various remotes)
AB-J	Ary Boender via remote rx Japan	JPL-NZL	JPL via remote rx New Zealand
AB-NZL	Ary Boender via remote rx New Zealand	JU	Jay Updike, W. Europe
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723 87629 37677 32612 53498 71296 28756 18276 98716 87
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
67 87432 74328 78674 29867 32867 67867 86786 43266 43
57 68768 68763 34234 34238 68768 62342 48273 48768 23
936 98432 32432 86743 43286 43286 43286 43286 43286 43
743 86743 86743 39867 32867 86743 43286 43286 43243 86
791 86743 86743 86743 86743 86743 86743 86743 86743 4
743 98798 98754 98754 98754 98754 29867 67543 67986 86
76 87698 69876 87698 69876 87612 12341 34867 86798 652
667 43298 65656 56756 56123 32143 14321 32143 14321 321
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