

6	27364	92836	89428	61298	71282	36198	32764	31277	
86	48932	78987	32123	49817	26346	81287	65491	87364	8
721	75654	55656	12737	72727	72727	91918	63473	67867	7
723	87629	37677	32612	53498	71296	28756	18276	98716	87
269	76329	74698	76857	98678	27681	56781	57681	73648	1
1	87364	87265	96718	27638	12673	84769	28743	98127	2
8	63298	75698	27465	87326	49876	28376	81273	98615	
7	87432	74328	78674	29867	32867	67867	86786	43286	87
17	68768	68763	34234	34238	68768	62342	48273	48768	2
26	98432	32432	86743	43286	43286	43286	43286	43286	48
43	86743	86743	39867	32867	86743	43286	43286	43243	86
8	86743	86743	86743	86743	86743	86743	86743	86743	2
99	98798	98754	98754	98754	98754	29867	67543	67986	87
8	87698	69876	87698	69876	87612	12341	34867	86798	6
3298	65656	56756	56123	32143	14321	32143	14321	32143	37
787	58765	76587	58765	76587	58765	76587	58765	76587	8

Numbers & Oddities *a.k.a. The Spooks Newsletter* *Edition #250, July 2018*

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.



FOREWORD



We did it: 250x Numbers & Oddities.

I never expected that we would come this far!! I said it before: N&O wouldn't exist without your contributions. So, thanks to the huge number of contributors who sent us information and logs since we started in February 1995. I counted no less than 1287 contributors in the 23 year of N&O's existence. Wow !!!

Numbers & Oddities started as a column in the first newsletter of WUN, the Worldwide Utility News club.

As we also included the logs from the Spooks mailing list we soon decided that N&O should also be published as a separate newsletter. The newsletter included the Spooks logs and later also those from HF Underground. Both with permission of the list owner.

The fact that many new readers asked for earlier N&O editions was the main reason to create a website so that everyone could download them. The N&O website was launched on May 1st, 1999

So, welcome to the 250th edition of Numbers & Oddities !!!

Besides the usual logs and transcripts of numbers transmissions, we have news about the old Buzzer transmitter site in Povarovo.

André sent us a huge amount of North Korean military logs and Japanese military logs. You can find them in the Utility Roundup section. He also provided a lot of Russian military logs. I included some of them in the Russian military section.

JP found out that UM03 was more active than usual. The increased activity of the Chinese UM03 stations and the North Korean military stations is likely related to the Chinese Navy which was conducting a 6 day exercise at that time.

André, Attu and Ary copied several transmissions of MC03 which isn't reported very often.

Enjoy, and keep those logs coming !!!

VOICE STATIONS

E06

13366/11438 kHz, 01-07, 1100/1200 UTC. E06 instead of F06

832 791 40

54157 61177 13224 34085 91529 54397 66689 54737 30623 50365

61317 67760 90461 70954 94964 38865 32814 55680 48842 64630

90415 64161 00129 19492 21687 18580 92550 97254 36622 11489

65615 95017 02445 67895 12220 92236 67749 11100 17348 41948

791 40 00000

15615 kHz, 05-07, 0600 UTC

13825/15615 kHz, 06-07, 0500/0600 UTC

679 483 51

91237 74361 57502 29301 84584 55546 53546 49363 31880 58331
68434 75794 59830 56260 44965 72854 17072 01671 65601 31742
28998 43582 60667 05224 40189 83572 06488 92082 05367 74333
36901 88448 14831 90583 16601 48223 65304 27042 49715 19762
12122 03128 22090 51024 63704 79097 00699 80361 04265 13283
38612

483 51 00000

5934 kHz, 05-07, 2028 UTC

724 149 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

5740 kHz, 06-07, 2130 UTC

315 149 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

13825/15615 kHz, 19-07/20-06, 0500/0600 UTC

679 821 50

32778 58569 25822 30928 12517 84949 15571 66088 06236 72314
92260 78839 66389 04606 58875 75477 56375 33346 20750 96331
21076 74138 86838 15830 55949 95847 34352 59463 60585 32143
85221 79823 87674 70087 67806 58924 23325 95470 62302 28964
59664 99565 53271 28746 45661 76999 37743 37922 27111 69418
821 50 00000

5731 kHz, 20-07, 2128 UTC. Early start

315 847 58

67391 24518 97497 42873 48732 35875 94589 43543 93269 73231
39317 43073 24893 21956 58946 58943 68951 29618 93648 91693
64134 86596 42384 84274 56741 38549 74375 13248 24389 34923
43241 38432 49321 89589 32385 48434 91893 24832 39532 65764
32893 76738 78346 57263 75329 65287 41291 31284 82564 37539
38578 43969 35434 54363 25487 21645 72848 69529

847 58 00000

12223/11023/10123 kHz, 04-07/08-07, 1700/1720/1740 UTC

201 201 201 1 220 93 220 93
58460 26529 20030 82303 79601 51043 14100 37573 21127 31816
78066 06464 81076 09087 15334 76552 91637 60391 55800 42776
66308 78898 88219 74507 94702 78225 16829 90652 43878 75314
73483 27584 01421 38048 62810 53240 61023 60061 43326 99618
12183 56199 88641 43165 51396 76434 81637 87074 84026 25257
58264 02983 46645 63654 36448 85735 65738 09751 35693 29155
94340 27558 89258 43240 19316 26711 56496 93447 41529 44487
92957 73098 55800 66676 54237 05007 70591 02157 57665 40390
37457 12656 02530 65865 89431 82765 98715 08905 09810 21211
92674 55538 96829 000 000

9064/10264/11464 kHz, 07-07, 0600/0620/0640 UTC

024 024 024 1 835 89 835 89
77170 60471 05166 47522 66360 48264 06835 28417 14701 75529
45653 92123 75430 13645 90373 03757 39828 10014 86816 76671
41734 71265 76451 34962 63835 46036 77879 68779 82530 71862
51992 12590 18973 32257 26393 96358 75093 33993 76195 53857
03702 50789 73101 01026 30616 56427 95920 52472 74938 19779
17953 54492 39320 83035 92555 85783 94898 99625 96073 34264
14197 29589 00098 42479 78290 73361 53759 41866 99655 09511
33609 55729 01256 66690 96326 38325 72072 65406 48477 71171
97956 79248 68819 22063 92955 48771 31600 76640 68963 000 000

15962/17462/18542 kHz, 10-07/13-07, 0700/0720/0740 UTC

945 945 945 1 2378 153 2378 153
66377 17190 76955 55091 00314 84859 28243 00641 06412 11360
62098 03561 15763 55745 23562 07745 34608 20539 78136 09401
59083 21178 06124 90510 76166 45206 77561 87608 77932 81994
29380 67775 22147 56461 17531 12491 14498 07750 81964 72542
69862 46090 88073 76866 58912 97105 84128 68124 17259 36999
23453 07865 78426 67944 03620 99527 10774 65005 35591 27631
55111 05806 70760 53682 34509 84244 41325 07034 20996 30291
61043 69530 87634 93944 79612 64271 17283 92233 61972 33078
36353 17646 67111 68068 76822 71854 56403 94524 38797 58145
23685 29257 51843 14122 48348 14281 92744 03649 73793 62469
72725 53924 23459 89639 87269 46612 99462 96335 71697 64702
00724 97788 23173 24639 06421 18014 37247 77299 72221 29445
29880 77325 27987 90445 35669 27701 69460 27271 79626 85771
31612 08515 16276 83686 70535 01071 63053 87222 43467 93852
20876 24266 57271 37638 03901 80542 00361 72982 82755 57622
86278 82895 20399 000 000

19252/17452/16252 kHz, 10-07/13-07, 1100/1120/1140 UTC

242 242 242 1 274 105 274 105
01130 76201 52425 47489 72303 03016 83753 76376 36059 72847
11308 48712 75661 44741 81068 54550 75820 34115 98880 12378
52902 12523 37933 80334 39075 99080 82558 02445 93587 44513
75290 72982 65585 91689 89528 32435 61771 82434 46026 27179
12763 06313 40272 70049 56171 62686 13186 32976 35760 31987
31131 58235 86105 27944 78043 14176 34282 30884 21330 32467
39217 94932 93170 09513 49246 71742 06440 87931 40952 89685
01608 24651 70243 21679 12255 20191 86385 99578 38280 06726
09026 89030 05229 98539 17180 79451 04722 73408 61972 92180
57056 68642 37563 60538 99039 22563 44749 34309 28851 25693
30370 35397 61126 56073 07039 000 000

11593/10547/9388 kHz, 12-07, 2010/2030/2050 UTC

553 553 553 1 3308 43 3308 43
96670 87488 98214 68772 82237 89139 92693 84980 44975 68165
92818 12626 78768 34429 09098 78532 50412 80472 11996 82402
66513 25634 58676 22154 42517 08581 21642 20445 38915 96253
17194 16489 35080 92295 42443 82469 11725 46122 77982 91011
53001 91097 07113 000 000

9064/10264/11464 kHz, 14-07/15-07/21-07/22-07/28-07/29-07, 0600/0620/0640 UTC

024 024 024 1 401 61 401 61
36201 09304 35321 81950 11119 83814 15951 95377 79150 45388
09415 26728 96133 96314 56386 56919 24103 43677 64549 65552
26121 88712 65522 35089 83839 46288 79412 83270 19491 07333
00816 79929 95668 72592 53578 15318 14428 03562 49127 70058
90453 30599 66130 16660 93255 03562 55544 40485 23803 11184
79316 37695 93420 25138 87283 64427 03370 66765 65947 97944
08424 000 000

16263/14763/13363 kHz, 16-07/18-07/23-07/25-07/30-07, 1900/1920/1940 UTC

273 273 273 1 523 61 523 61
89217 93231 95886 95226 61374 85670 98437 32213 34459 66685
40019 03167 19984 93406 66919 92124 47992 70069 65056 67746
03177 65548 01902 98434 56711 32439 99683 13759 01387 27522
73992 28146 67605 67740 24297 56425 49972 80067 15447 86993
12271 64112 68502 42531 73578 39638 93687 85128 09740 58781
76317 03044 31524 66888 23916 20338 94879 68228 09237 76622
56323 000 000

12223/11023/10123 kHz, 25-07/29-07, 1700/1720/1740 UTC

201 201 201 1 7504 81 7504 81
02549 02086 12359 80094 51462 27691 06813 03930 99519 62413
94608 17780 66447 64609 68882 31289 72453 11255 99709 52252
18478 18271 54500 85211 82948 72321 40336 98394 72527 24725
14632 06142 97899 98666 76468 04958 46398 80740 69735 72705
57183 85562 13270 70148 18546 82399 21322 78788 92914 81688
78070 54656 65572 28029 15045 01845 40094 60476 35357 03122
95851 70294 21931 70537 96987 33243 60291 27095 48031 79799
32607 68871 56344 12133 47211 52826 66999 90190 81727 10520
08943 000 000

15962/17462/18542 kHz, 27-07, 0700/0720/0740 UTC

945 945 945 1 161 131 161 131
45768 20455 90842 50399 44475 13447 48583 83639 79306 29526
65266 68168 60555 99909 18217 80128 77897 03739 27365 11335
19160 85846 22025 21262 69365 39975 23510 37890 46850 14353
40787 42006 50110 22248 84775 77790 44618 66377 99129 95540
32997 47277 35344 28028 36480 37496 18229 64164 22353 59059
67438 56442 65506 33159 12634 85529 11453 38283 63570 13684
99544 37929 05978 94637 49938 14523 37125 75603 95660 94122
37366 52035 31690 90454 97470 78804 28721 57263 09801 37392
39790 27419 74124 83312 01577 73737 01960 74807 84262 35864
14393 48536 58922 03232 26916 11601 20050 44882 99077 45041
31604 32076 35660 38610 91316 38253 50066 22177 02368 08009
32070 11196 71092 51404 11116 44204 71482 90496 18873 39659
07110 79715 01159 98497 27083 29175 60805 61551 15517 56032
73194 000 000

19252/17452/16252 kHz, 27-07, 1100/1120/1140 UTC

242 242 242 1 4631 139 4631 139
 41427 75598 76414 73727 08751 36989 22037 90657 77323 92830
 85283 60770 29011 06327 70638 54138 59380 54128 63353 16728
 85699 71170 70994 96815 72725 35387 95958 44026 11169 81717
 94219 27646 33064 59099 87151 18346 69414 12802 59875 09985
 45496 71446 76209 09946 59791 75491 35001 27687 48103 76674
 33784 47276 62275 23343 07376 61166 26944 42685 65103 32449
 33573 93305 52488 35391 73131 16054 45188 15393 38955 93791
 64592 24042 25072 85055 59908 67598 91604 61306 25005 04079
 78558 32419 50958 42937 30532 18429 52072 39280 84113 68348
 36782 47219 70168 44145 64983 73463 61333 18083 41652 70042
 08868 85989 99610 36925 54623 28089 52358 90897 02176 29591
 09679 08817 96586 40655 19662 58070 69321 22519 65742 84111
 88433 19602 86569 43465 95617 41503 77666 08170 78294 05388
 72915 22238 06895 28504 38914 16837 66015 43387 33962 000 000

E07a**12166/10766/9266 kHz, 04-07, 2000/2020/2040 UTC**

172 172 172 1 69198 230 67 230 67
 46756 42029 89891 84324 52981 11789 59262 88577 43510 14121
 47694 27458 81194 18950 46134 86411 78025 94397 69364 79422
 54511 39066 57136 25632 38155 71284 31758 61295 80030 34078
 44006 97996 59218 77350 35326 82640 59867 84682 53518 15601
 49978 76487 53553 63154 98732 80855 55715 86200 60740 53623
 18861 05616 25038 52737 26290 70246 20916 69625 05293 40140
 07915 41968 92163 71148 12436 47907 82425 000 000

7933/9133/10233 kHz, 05-07, 0430/0450/0510 UTC

912 912 912 1 69198 230 67 230 67
 46756 42029 89891 84324 52981 11789 59262 88577 43510 14121
 47694 27458 81194 18950 46134 86411 78025 94397 69364 79422
 54511 39066 57136 25632 38155 71284 31758 61295 80030 34078
 44006 97996 59218 77350 35326 82640 59867 84682 53518 15601
 49978 76487 53553 63154 98732 80855 55715 86200 60740 53623
 18861 05616 25038 52737 26290 70246 20916 69625 05293 40140
 07915 41968 92163 71148 12436 47907 82425 000 000

12213/11413/10113 kHz, 06-07, 1510/1530/1550 UTC

241 241 241 1 64249 382 61 382 61
 25202 17486 38777 82875 64252 29786 00317 56586 98476 90144
 84902 54523 44055 59750 30035 43429 09195 23383 66675 49562
 86180 82927 04405 04095 42391 98583 73267 77538 70738 01034
 13086 95735 48546 54422 28541 80837 12339 26193 74742 61641
 84015 58204 64459 81418 69630 40435 30954 05608 10665 87533
 38731 70799 04682 27912 14096 16072 18358 82445 06094 40965
 46127 000 000

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

198 198 198 1 64249 382 61 382 61
 25202 17486 38777 82875 64252 29786 00317 56586 98476 90144
 84902 54523 44055 59750 30035 43429 09195 23383 66675 49562
 86180 82927 04405 04095 42391 98583 73267 77538 70738 01034
 13086 95735 48546 54422 28541 80837 12339 26193 74742 61641
 84015 58204 64459 81418 69630 40435 30954 05608 10665 87533
 38731 70799 04682 27912 14096 16072 18358 82445 06094 40965
 46127 000 000

12166/10766/9266 kHz, 25-07, 2000/2020/2040 UTC

172 172 172 1 32016 524 36 524 36
28634 77807 73625 58950 50766 95027 79128 40351 26561 02308
66380 54617 60452 61999 89477 91985 65028 89938 32541 81011
47649 11077 00107 71052 90121 78384 67082 67746 33506 04921
32187 77042 24030 41326 37783 06155 000 000

7933/9133/10233 kHz, 26-07, 0430/0450/0510 UTC

912 912 912 1 32016 524 36 524 36
28634 77807 73625 58950 50766 95027 79128 40351 26561 02308
66380 54617 60452 61999 89477 91985 65028 89938 32541 81011
47649 11077 00107 71052 90121 78384 67082 67746 33506 04921
32187 77042 24030 41326 37783 06155 000 000

E11a

9610 kHz, 02-07/05-07, 0745 UTC

264/39 Attention
06075 03707 01747 32528 94161 08091 89077 87860 94375 33121
78408 24203 34405 62882 11047 41368 20478 61223 36866 42492
35764 38700 14519 21908 64595 90923 35186 09770 55516 73240
61058 37948 65437 07680 53457 64100 81626 02959 23694
Attention (message repeated) Out

5082 kHz, 02-07/05-07, 0820 UTC

439/34 Attention
18509 03706 40774 39916 18642 14089 63167 94344 26963 91007
35633 27286 28802 78333 50010 59959 74156 81025 27960 26018
62578 24851 75924 22421 90322 80948 55194 02442 26097 45519
12741 09945 76681 70363
Attention (message repeated) Out

6849 kHz, 03-07/06-07, 0700 UTC

574/35 Attention
67599 97425 17576 66151 45209 01725 22508 97491 10326 35221
12746 34173 97226 82850 47161 23329 18894 08740 76618 71854
58425 22611 31525 67043 86411 40109 15287 51206 57852 06484
69177 35836 74400 84412 08527
Attention (message repeated) Out

12397 kHz, 03-07, 1000 UTC

308/40
24499 67042 32490 09247 20504 10197 33851 06757 66443 81563
75415 20418 44913 44198 81920 43887 85255 68024 72324 63215
82749 78587 07486 34923 95936 31637 98286 99458 58795 98331
33190 30436 52233 23035 64701 19128 77391 07710 36121 56004
(message repeated) Out. No "Attention"

6304 kHz, 03-07/04-07, 1205 UTC

465/32 Attention
28444 70826 94778 24095 99642 34177 67305 44539 03153 65252
42941 42362 23313 52668 32114 59897 72951 76371 32332 43384
77086 31340 99240 88468 05701 17392 33131 57707 91735 01508
20552 97996
Attention (message repeated) Out

11581 kHz, 03-07/05-07, 1925 UTC

552/31

16538 56845 67381 93788 03890 45594 79468 92609 87178 32294
97888 01270 88726 76855 28196 63129 99704 02264 75667 85956
58260 49584 25107 92976 65004 57109 39197 29380 75992 33750
37570

(message repeated) Out. No "Attention"

15720 kHz, 04-07/06-07, 0745 UTC

342/39

14485 30503 98025 57910 84384 14917 32045 71641 89600 99752
51308 55149 31076 28921 64758 68966 20358 27410 61070 64308
22887 72883 02049 41995 52646 43873 28894 44607 60032 47593
13118 77585 05673 78682 77012 09241 90151 42584 45063

(message repeated) Out. No "Attention"

15795 kHz, 04-07/08-07, 1625 UTC

974/34

43139 47292 00987 43273 52640 91456 72599 77333 08093 25673
19298 55716 37650 20104 35562 19223 72867 03312 35935 91191
98088 93728 72087 24562 77824 39848 72797 44263 44312 81828
80995 51482 31904 29606

(message repeated) Out. No "Attention"

13873 kHz, 06-07, 0600 UTC

184/29 Attention

01211 29509 90765 06477 19470 22789 54282 03832 16155 12676
27386 76395 14697 07775 00580 82831 74329 87182 46122 91485
38698 89424 41931 88217 84898 34520 47102 28459 26761

Attention (message repeated) Out

12397 kHz, 06-07, 1000 UTC

308/40

75415 20419 44913 44198 81920 43887 85255 68024 72324 63215
82749 78587 07486 34923 95936 31637 98286 99458 58795 98331
33190 30436 52233 23035 64701 19128 77391 07710 36121 56004
24499 67042 32490 09247 20504 10197 33851 06757 66443 81563

(message repeated) Out. No "Attention"

9610 kHz, 06-07/08-07, 1910 UTC

618/32

14623 04978 02717 22474 52251 43953 77787 96397 00145 59916
67591 80232 51789 81392 73012 15875 42246 79479 09427 84265
94606 79728 40543 30255 70738 46424 32947 24141 91350 57467
04961 86005

(message repeated) Out. No "Attention"

9130 kHz, 08-07, 2005 UTC

363/39

42798 39917 77116 15652 98151 92983 43493 25032 47044 47166
63462 56261 44208 54450 77781 50705 33333 63631 30084 46372
22926 94513 29369 54795 61570 30969 95373 22469 72083 66139
06005 24804 11066 81749 53714 69463 29001 32353 85301

(message repeated) Out. No "Attention"

13537 kHz, 09-07/13-07, 1225 UTC

527/38

36152 51863 54547 85143 30587 56656 98801 57491 72610 89248
16845 12593 42792 65050 60793 68763 82801 84832 37985 57060
53130 56149 31764 79812 13318 92373 03132 81324 24572 00337
95319 66263 86348 61784 87804 83463 67259 37935

(message repeated) Out. No "Attention"

12202 kHz, 10-07/12-07, 0845 UTC

154/20 Attention

11085 55038 74731 59753 19555 78957 15932 95888 55017 72232
11679 61963 29916 91655 57765 98384 36350 95721 87056 01865

Attention (message repeated) Out

7984 kHz, 11-07/14-07, 1730 UTC

403/39

65212 61400 93281 86364 02546 17566 57770 77746 11934 79909
51971 30369 07620 55402 17967 86689 58791 84606 11870 50070
43827 99184 30470 07607 97694 50045 68916 01939 77813 69606
14218 96430 96647 71384 59797 50279 70808 06992 46785

(message repeated) Out. No "Attention"

11581 kHz, 12-07/14-07, 1300 UTC

583/33

39430 20799 98110 38473 13283 03441 94751 48264 92372 83803
39212 33142 20487 57183 78258 78023 15016 68089 56931 91842
77637 97888 53688 31774 08947 59577 22956 59665 45524 26888
58038 66314 77736

(message repeated) Out. No "Attention"

9079 kHz, 14-07/15-07, 0805 UTC

315/31

13111 81501 55769 50046 58621 97464 02310 79585 52314 94029
95941 44225 90726 48786 89990 61806 85432 53472 83903 25843
16814 03736 53310 46759 43158 23004 81082 01058 68119 21735
94533

(message repeated) Out. No "Attention"

7469 kHz, 16-07, 0450 UTC

8088 kHz, 19-07, 1730 UTC

414/33 Attention

34989 72090 68208 04330 68560 44340 56864 22339 75476 12032
95126 11732 69397 29806 39640 82643 20580 72694 49943 01206
81638 10269 27850 74266 50747 86505 89181 06648 28517 23105
75382 47200 19619

Attention (message repeated) Out

8545 kHz, 16-07/18-07, 1045 UTC

693/30 Attention

14470 76937 02808 55128 08067 03289 06734 58253 95875 23392
54769 90090 77171 76758 49725 75552 75206 24777 85051 47299
42909 61028 19327 81260 98490 95036 33564 75220 95872 06989

Attention (message repeated) Out

7600 kHz, 16-07/19-07, 1900 UTC

646/38

96867 88677 56181 66960 61676 94132 72339 40229 97540 12446
60663 24779 27906 04407 24425 58074 66974 86750 10727 98265
13870 31474 12280 58959 23928 15516 75430 69783 29216 52303
21072 20569 77109 33500 67839 95715 72410 04411

(message repeated) Out. No "Attention"

13424 kHz, 17-07/19-07, 0645 UTC

515/35 Attention

03715 43616 19070 55819 67466 82616 73112 49195 24196 65939
46756 15843 63175 04863 42378 46189 08742 45254 39282 36446
13838 25171 05735 51036 51185 70257 92830 21801 23474 05320
30242 03022 78210 94709 93115

Attention (message repeated) Out

15825 kHz, 17-07, 1345 UTC

910/36

38963 70751 30073 19062 97766 12943 24127 41938 27219 45675
09259 93522 52171 62263 19592 71229 21688 00295 81851 26148
45982 61223 62774 55883 18001 50044 76220 19167 54907 29561
67476 86767 61825 65447 21936 71350

(message repeated) Out. No "Attention"

4783 kHz, 17-07, 1605 UTC

237/32

35027 04520 29852 37420 60598 19814 19002 25056 30322 75680
38616 39515 94822 60183 46882 14432 86312 51204 11127 10893
79944 99523 58335 83375 70315 05380 05862 70741 79837 21130
41418 89418

(message repeated) Out. No "Attention"

6480 kHz, 21-07/22-07, 0710 UTC

496/32

25391 67999 60114 38345 31375 50114 05610 10780 60788
16226 95002 72194 67363 63950 98008 28701 20069 67436
36195 37512 87660 83140 37233 53221 63643 30544 28500
89369 38703

(message repeated) Out. No "Attention"

15800 kHz, 23-07/25-07, 0640 UTC

942/29

57547 50208 70738 34029 89604 01380 53756 66481 75441 16602
21462 47866 60480 71908 39621 55240 11676 90390 60732 16520
98722 46952 58546 12008 18103 38404 64347 94427 69667

(message repeated) Out. No "Attention"

14410 kHz, 23-07/29-07, 1745 UTC

249/31

27840 37802 26692 16869 81166 09127 49907 64461 32764 76899
49873 80199 68951 16715 34153 18299 38104 30370 44193 41468
64712 82071 67918 92765 13792 41309 70316 28923 26403 15367
65740

(message repeated) Out. No "Attention"

14575 kHz, 24-07/26-07, 1645 UTC

331/31

79931 53023 01634 35466 02249 72138 84152 23425 50526 08444
41003 38873 39261 44755 59980 63951 55301 63643 88761 79717
11240 24788 03644 69303 51340 60277 48399 10082 51372 45936
80275

(message repeated) Out. No "Attention"

17378 kHz, 25-07, 0820 UTC

138/37 Attention

26508 06954 40888 57791 38564 24418 66443 99197 13710 70042
87946 49102 66906 26316 93411 76394 04343 27522 55847 79309
45567 22852 93981 40564 04577 89406 38539 96543 78068 23971
04210 78911 67955 32903 41442 12426 05845

Attention (message repeated) Out

6304 kHz, 25-07/26-07, 0930 UTC

271/36 Attention

90197 74676 27738 73214 78007 70755 89557 43512 40513 16741
63934 83241 22733 01247 43798 63786 51644 83453 78664 66736
22332 05271 21901 23100 80876 01055 38625 26358 33943 63397
86968 02608 04494 37125 42027 51139

Attention (message repeated) Out

14865 kHz, 25-07/28-07, 1705 UTC

391/33

27747 17929 12465 77298 42994 45180 07933 48596 53695 85664
34893 29252 30414 40855 61325 61680 30053 99552 34684 80744
85080 00945 91671 69525 21175 84675 85946 48936 37711 29092
49865 85004 32763

(message repeated) Out. No "Attention"

10429 kHz, 27-07, 0715 UTC

639/37 Attention

45424 18060 55017 15874 77691 26834 15655 37465 50208 92267
87530 20472 85534 38991 83263 58785 11569 16381 85236 78835
89186 22687 93258 95945 39189 70182 14114 37138 45849 43411
63506 69974 13070 95368 00531 61255 95060

Attention (message repeated) Out

10429 kHz, 31-07, 0715 UTC

No id/group count. Attention

13402 21203 40821 72070 08808 71399 75709 32155 35813 62469
25526 36571 03907 97839 70524 15395 14656 01307 12495 46339
80431 99147 16020 93917 98044 59250 39026 56260 93251 31152
49825 26742 40428 70863 20150 50380 28662 47305 22484 17844
37581 52805 53075 17561 01675 69473 52215 86142 43516

Attention (message repeated) Out

E17z

16780/12850 kHz, 05-07/12-07, 0800/0810 UTC

674 829 5 46062 68672 97478 39685 30485 829 5 00000

16780/12850 kHz, 19-07/26-07, 0800/0810 UTC

674 802 5 32537 42983 35751 35375 57176 802 5 00000

G06

6887 kHz, 12-07, 1830 UTC

842 273 62
64537 27364 28374 34736 39291 27384 37438 28372 27480 94832
74563 38458 83492 29310 18237 74391 37281 17283 84032 72362
84393 67482 56464 69738 26491 32642 13794 83842 23810 47131
95437 82683 73913 74592 43618 74932 74924 74297 43621 94724
84538 85937 34021 83929 90184 72641 84829 74826 48231 83732
72642 85914 38539 34752 75392 83482 75637 73892 95736 64612
84759 76491
273 62 00000

5943 kHz, 13-07, 1930 UTC

218 273 62
64537 27364 28374 34736 39291 27384 37438 28372 27480 94832
74563 38458 83492 29310 18237 74391 37281 17283 84032 72362
84393 67482 56464 69738 26491 32642 13794 83842 23810 47131
95437 82683 73913 74592 43618 74932 74924 74297 43621 94724
84538 85937 34021 83929 90184 72641 84829 74826 48231 83732
72642 85914 38539 34752 75392 83482 75637 73892 95736 64612
84759 76491
273 62 00000

6887 kHz, 26-07, 1830 UTC

842 149 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

5943 kHz, 27-07, 1930 UTC

218 289 54
12345 89657 45632 75684 95463 84567 06854 84657 91745 19567
85674 82821 85674 21972 91297 27890 84672 74284 73581 83861
74581 91248 17671 41812 97128 90486 43716 47534 85494 24353
91486 17410 97272 49191 04171 42468 12893 89758 43673 48727
51534 87281 87462 64874 74728 87284 84926 82941 81749 92471
67578 64618 84021 72492
289 54 00000

S06

13469 kHz, 12-07, 0930 UTC

15875/13469 kHz, 13-07, 0830/0930 UTC

842 670 38
43091 44131 71240 59216 00723 38790 18739 76234 25919 77688
39831 24752 34086 97894 95025 58166 21490 02095 79566 36765
84851 25337 00899 33771 45342 23746 65983 90709 19157 96144
33176 95526 01861 74532 08339 81899 58689 44336
670 38 00000

4870 kHz, 04-07/06-07, 1955 UTC

379/32

95991 88964 63851 16762 10557 24104 64890 91199 68636 15160
53236 72518 92012 87249 91500 91364 17656 27895 75379 98083
37898 64384 24300 14494 22568 42656 18278 31966 07556 83962
45492 12435

(message repeated) Konets. No "Vnimaniye"

5737 kHz, 04-07/08-07, 2050 UTC

481/36

21201 98469 21953 75585 03550 60520 94656 74690 02387 32864
74222 91397 93208 81197 45502 66609 90299 45381 52018 90767
92708 39012 77135 27047 84167 00794 27687 68618 61459 22065
59084 46851 37524 82578 99275 19762

(message repeated) Konets. No "Vnimaniye"

6977 kHz, 03-07, 1020 UTC

424/36 Vnimaniye

19607 41499 01804 12104 56025 77698 48866 06144 07901 58242
17510 95138 19868 86754 86365 78914 89537 42667 59643 82566
62218 05316 63414 46957 73951 66478 80883 85682 46725 69412
34008 50792 58026 10104 01770 92238

Vnimaniye (message repeated) Konets

11092 kHz, 11-07/14-07, 1540 UTC

569/36

63475 88894 02869 30100 02867 22226 78938 38782 47649 36337
33970 57245 57795 78496 05132 71264 73598 92520 01655 05896
66625 30804 55676 22858 43816 94012 03413 16839 29632 46370
00920 56020 15896 20034 15332 13418

(message repeated) Konets. No "Vnimaniye"

10210 kHz, 16-07/19-07, 1015 UTC

477/39 Vnimaniye

06158 11153 12439 19288 54904 43300 17350 57659 49179 11816
66801 29313 78959 76300 26635 29423 89430 77542 73361 03163
03276 10061 81551 49110 22005 90653 73221 59650 06480 88397
95843 57413 01038 00123 36150 01269 03808 66625 36036

Vnimaniye (message repeated) Konets

12457 kHz, 18-07/21-07, 1850 UTC

282/38

17741 97729 85161 69586 15223 68894 74618 69823 88350 65307
85306 09837 11475 46237 10915 47766 92742 52981 24531 60227
82317 25793 55702 42035 88237 59229 16891 40467 27347 26416
23460 05999 08010 34193 12085 39820 22173 41587

(message repeated) Konets. No "Vnimaniye"

17378 kHz, 19-07, 0735 UTC

384/32

37324 87127 81844 97136 30976 13627 77611 14207 83981 93575
11838 46825 83105 76276 61300 77243 10770 79556 84793 94355
53525 32178 12082 08488 95074 25130 09904 97458 91628 39593
95884 55482

(message repeated) Konets. No "Vnimaniye"

S28 - The Buzzer

The old Povarovo site has been demolished and is replaced by a Mercedes Benz factory

<https://www.google.com/maps/@56.0828487,37.0889782,986m/data=!3m1!1e3>



Picture © Google

V07

13563/12163/10263 kHz, 08-07, 0700/0720/0740 UTC

512 512 512 1 7523 47 7523 47

18002 85225 95828 40998 56459 55513 61953 95960 35157 46159

43013 51144 05701 22521 31331 44065 06628 36269 05006 07340

25843 33147 20633 65710 62877 09970 82951 05572 92256 78697

70736 68026 68152 65805 13633 55249 87192 25017 62913 66352

36859 79966 99922 72251 21969 78164 42855 000 000

13563/12163/10263 kHz, 22-07, 0700/0720/0740 UTC

512 512 512 1 8317 71 8317 71

11927 83686 73304 95212 66384 99775 58304 19024 45317 37094

38342 61883 52211 01155 58844 28998 77217 17095 83001 28497

20223 04423 50487 73742 95071 08121 43479 34750 83410 75012

07282 63661 76180 30919 69228 76867 91502 32567 83537 91351

37408 98746 65594 32312 22722 23283 75324 15297 24611 80396

38316 14613 31020 50660 90975 77935 61311 15088 42508 35777

64952 73280 41809 94117 08368 71569 49914 04698 94463 08270

28272 000 000

V15 via PBS Pyongyang Pansong

3320 kHz, 21-07, 1445 UTC, AM

North Korea Intelligence via PBS Pyongyang Pansong. Message in Korean

<http://www.numbersoddities.nl/V15-2018-07-21-1445utc-3320khz.mp3>

V28

All logs by HK.

2932.5 kHz, 05-07, 1200 UTC, AM	Parrot. Messages in Korean
3049 kHz, 05-07, 1200 UTC, AM	Parrot. Messages in Korean. Male operator
3518 kHz, 05-07, 1200 UTC, AM	Parrot. Messages in Korean. Male operator
2996 kHz, 05-07, 1202 UTC, AM	Parrot. Messages in Korean. Female operator
4494 kHz, 09-07, 2105 UTC, AM	Parrot. Messages in Korean. Female operator
4622 kHz, 09-07, 2105 UTC, AM	Parrot. Messages in Korean. Female operator
4963 kHz, 09-07, 2105 UTC, AM	Parrot. Messages in Korean. Female operator
5215 kHz, 09-07, 2105 UTC, AM	Parrot. Messages in Korean. Female operator
2932 kHz, 27-07, 1206 UTC, AM	Parrot. Messages in Korean. Female operator
2996 kHz, 27-07, 1206 UTC, AM	Parrot. Messages in Korean. Male operator
3049 kHz, 27-07, 1206 UTC, AM	Parrot. Messages in Korean. Female operator
2929 kHz, 31-07, 1200 UTC, AM	Parrot. Messages in Korean. Female operator
3050 kHz, 31-07, 1200 UTC, AM	Parrot. Messages in Korean. Female operator
3504 kHz, 31-07, 1200 UTC, AM	Parrot. Messages in Korean. Female operator

MORSE STATIONS

M01

5280 kHz, 03-07, 1800 UTC

025 711 711 30 30 = =
94855 10077 41440 43044 34209 84216 48464 69574 31315 93703
15050 80872 22047 40636 00668 39661 76491 88922 07940 86825
80915 52999 73769 76688 76120 97828 80945 75792 43249 57139
= = 711 711 30 30 30 000

4905 kHz, 03-07, 2000 UTC

025 712 712 30 30 = =
00590 53309 46233 28889 87008 52420 18314 21381 63485 01150
01509 16909 75369 44326 84524 29506 02643 72022 45134 50175
64962 31849 17956 95272 89710 32235 03321 66237 85862 39041
= = 712 712 30 30 000

6780 kHz, 08-07, 0700 UTC

025 642 642 30 30 = =
19464 84017 48554 21109 93468 33007 47630 90657 52956 41044
10030 06664 86891 68155 68467 19946 37773 70766 63571 06813
89103 11127 74254 98301 66106 62482 78232 01652 40587 17376
642 642 30 30 000

6435 kHz, 14-07, 1500 UTC, as sent:

025 643 30 643 30
87804 87804 99904 99904 74362 74362 37090 37090 58424 58424
8493 88493 7662 47662 665R EEEEE 66516 66516 96933 96933
26479 26479 37053 37053 04352 04352 44168 44168 18700 18700
34327 34327 62076 62076 89798 89798 35035 35035 75342 75342
88.19 EEEEE 88129 88129 53388 53388 7351 EEEE 73526 73526
22356 22356 54162 54162 83772 83772 90563 90563 47261 47261
88732 88732 90551 90551
643 30 000

6780 kHz, 15-07, 0700 UTC

025 644 644 30 30 = =
 10467 56446 46572 13320 41476 35153 61284 19804 88602 95012
 11984 24184 78227 89144 08043 21857 19131 26281 02121 83094
 16364 29683 79037 76062 40081 33968 70316 74941 28536 43606
 = = 644 644 30 30 000

6435 kHz, 21-07, 1500 UTC

025 937 937 30 30 = =
 32948 36116 48128 48658 93667 47253 34247 11482 29601 32606
 85085 00531 18639 59114 67188 77602 30706 98140 35358 84996
 00427 89268 31084 40662 45262 34103 22228 95734 87303 44827
 = = 937 937 30 30 000

5280 kHz, 24-07, 1800 UTC

025 812/30 812/30
 02727 36076 82624 95386 93546 54773 46604 77836 55287 57367
 52558 63531 73697 70974 40064 02559 57362 19791 94024 82113
 14571 19973 84359 54138 49512 52555 99706 22425 92907 47508
 812/30 000

6435 kHz, 28-07, 1455 UTC VVV VVV**6435 kHz, 28-07, 1500 UTC**

025 136/30 136/30
 55125 05770 72844 97896 68984 26769 23016 75323 80983 99242
 99255 25723 63586 72542 04551 34649 82330 00249 61907 37985
 86288 62520 86479 76104 44843 87194 48566 17940 37163 51820
 136/30 000

6780 kHz, 29-07, 0700 UTC

025 138/30 138/30
 01208 34606 76523 97091 28331 18036 67269 80653 88601 08259
 52591 61215 53438 03245 37599 21820 61246 56121 21820 81428
 28950 61110 39290 39035 73350 73676 37232 84138 64859 43658
 138/30 000

M01a**8042 kHz, 01-07, 1533 UTC**

111 333 15
 111 333 16
 333 16
 111 000

9053 kHz, 01-07, 1542 UTC

269 269 269
 27688 27688
 55 333 27671
 333 27108
 333 27108
 333 27538
 333 23638
 040 1
 269 269 269 333 25463
 333 28863
 333 27563
 040 02
 111 000

8042 kHz, 01-07, 1533 UTC

111 333 15
111 333 16
333 16
111 000 01

9053 kHz, 01-07, 1542 UTC

269 269 269 27688 27688
55 333 27671
333 27108
333 27108
333 27538
333 23638
040 1
269 269 269 333 25463
333 28863
333 27563
040 02
111 000

5430 kHz, 05-07, 1648 UTC. i.p.

94013 24648 04613 54798 74425
111 000

6772 kHz, 21-07, 0806 UTC

895 895
111
111 000

M12**8047/6802/5788 kHz, 02-07, 1800/1820/1840 UTC**

463 463 463 1 7222 95 7222 95
96025 49272 71041 52248 53712 54899 14022 88845 20160 56140
02316 04064 72483 34935 33071 00160 77840 19382 32089 18600
88926 24491 15420 03507 36275 63071 13218 31241 98414 84968
87499 86691 97728 74256 50689 96072 26992 57146 88785 29873
78828 20917 51845 31583 72734 25871 18656 08391 82339 03724
64606 65039 36916 12772 03512 46530 54367 17558 21801 24757
49112 81526 95862 75885 56126 49284 74070 48959 57229 95057
20153 43185 07398 68135 60812 89624 66615 90988 63102 09737
98752 17432 20248 76481 61005 82785 63149 73114 61104 51402
33313 29765 35340 25581 98018 000 000

10343/9264/8116 kHz, 02-07, 2000/2020/2040 UTC

124 124 124 1 4069 110 4069 110
01530 80876 84521 57585 22261 98335 53272 43703 52481 49994
71876 12227 63436 47823 88426 84514 78067 93985 05900 18341
98731 19603 06147 65028 80941 12570 63509 47400 08830 33764
07251 52072 72460 17814 87151 17173 25278 14807 39406 65897
60547 61707 14545 09383 49216 91309 91887 62331 40411 43032
46132 71180 24523 39127 50566 17213 91301 77168 13750 79786
76594 12700 03012 26205 55205 26683 41708 71544 47816 93465
33132 59180 14175 29849 81622 62289 34203 09299 50233 81394
16326 18739 67156 97470 92902 81693 35507 48446 93105 57671
81133 97548 07007 39267 14671 75431 40959 13161 42533 19218
16686 42210 98165 91046 82400 18897 76979 74394 83032 06576
000 000

12103 kHz, 03-07, 0700 UTC

12103/10603/9303 kHz, 05-07, 0700/0720/0740 UTC

163 163 163 1 4345 53 5345 53
07805 14675 03514 19691 80638 39815 04276 42963 46194 46276
84788 70976 42176 89445 98611 91230 15404 65512 16981 57949
70417 06887 64814 18895 73307 90321 30282 75350 55617 14768
11067 87081 70344 68962 74693 58517 24004 86598 31923 48426
85315 87405 17147 89635 23688 28048 00442 01901 09147 40159
38422 36625 15632 000 000

9373/7979/6879 kHz, 04-07, 2100/2120/2140 UTC

398 398 398 1 525 81 525 81
09000 20136 69025 36191 19417 28943 01980 99272 18929 13848
13683 05359 30123 94501 85265 45491 71900 22355 01905 40297
79118 02538 16427 89819 68539 02187 19081 65215 87274 63075
13481 54627 35363 05545 22807 12596 73700 01123 10634 86076
24746 93512 71767 16704 85996 22997 84513 19717 32022 60311
37969 70988 99158 73735 99755 82502 79757 80668 68177 93350
96503 52984 97323 11960 91576 94694 46232 59704 02139 94351
32987 31218 10681 72716 97935 23986 11895 64202 67689 61788
77087 000 000

14377/13461/12114 kHz, 05-07, 1700/1720/1740 UTC

317 317 317 1 8191 110 8191 110
86331 51350 18480 28094 67247 95973 53253 51136 87853 22391
62551 30408 59998 76152 21775 47082 23365 51992 35373 78202
01834 54097 87242 87027 99698 97244 44328 86828 12689 18733
51766 90713 92910 72279 25356 37430 11596 21136 56235 72897
99503 48688 83485 61103 58976 08168 35566 13398 39299 31703
00946 65828 15240 56354 59110 31588 05715 38407 12204 06709
42412 33282 66396 48218 07916 07404 62115 82416 12317 29694
63703 41201 87752 31664 09562 59276 62721 11494 13740 28251
23226 67240 87658 76405 51478 52222 17300 91551 71117 00608
21356 11599 98147 07177 22552 19345 99136 39828 90970 33655
08523 85772 87928 69256 52986 32135 60255 90705 61357 53271
000 000

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

262 262 262 1 525 81 525 81
09000 20136 69025 36191 19417 28943 01980 99272 18929 13848
13683 05359 30123 94501 85265 45491 71900 22355 01905 40297
79118 02538 16427 89819 68539 02187 19081 65215 87274 63075
13481 54627 35363 05545 22807 12596 73700 01123 10634 86076
24746 93512 71767 16704 85996 22997 84513 19717 32022 60311
37969 70988 99158 73735 99755 82502 79757 80668 68177 93350
96503 52984 97323 11960 91576 94694 46232 59704 02139 94351
32987 31218 10681 72716 97935 23986 11895 64202 67689 61788
77087 000 000

15821/13921/12221 kHz, 09-07/11-07, 1400/1420/1440 UTC

892 892 892 1 250 121 250 121
53799 41684 37427 25274 01337 52791 87319 48692 78132 10199
01593 01954 65856 77324 83616 20878 40626 51803 44775 53977
24558 22370 58378 90674 39866 98514 91722 94275 40515 98883
42195 44080 04819 06881 36080 24883 32194 13169 97050 91170
27133 00970 22038 60067 94124 37730 70563 19999 10672 84867
93883 71832 46442 33105 04069 63232 96307 88053 21630 15520
82472 27344 42409 59746 56283 77146 41129 95992 33191 94461
50641 69701 41599 51963 78645 26027 44917 85006 38603 88035
56255 09304 63342 57950 28748 59848 61560 65834 94059 12720
90362 90215 03197 16392 40802 53497 27692 03339 27015 57679

24005 07279 98130 92096 03078 58962 55527 95125 02718 54658
67941 25066 70922 15957 47768 25126 51343 40071 34026 27977
81265 000 000

8047/6802/5788 kHz, 09-07, 1800/1820/1840 UTC

463 463 463 1 4768 91 4768 91
30651 85353 87135 45545 08518 27881 21907 16048 19813 13156
77068 11369 68709 49518 30817 19704 02834 24152 07331 42963
67888 70717 12426 17771 37861 05430 92511 19070 09643 19662
83485 82902 49579 01871 08540 44762 47055 41711 04183 13519
28643 14609 82801 77478 51159 37686 14681 77605 04539 68103
08475 18833 21552 80166 18574 30893 87616 42073 82401 30769
43118 64162 16336 09674 72883 15098 94216 40898 14430 02698
25649 99758 71641 92844 49752 58120 05001 27595 07766 35888
64741 51319 92576 87670 48038 17287 51042 38217 77446 38244
99986 000 000

10343/9264/8116 kHz, 09-07, 2000/2020/2040 UTC

124 124 124 1 6316 103 6316 103
65752 73345 98600 72271 17404 76651 47524 12576 71767 15407
33969 43626 15664 75874 23563 41550 45131 90552 45955 86928
33681 54655 35392 27405 84240 33790 68417 67938 93796 25642
53663 68498 67243 32418 64291 61838 83773 02462 34124 31531
63230 41763 05737 08600 76804 96016 21634 99337 41692 99182
02674 54289 45816 04183 18196 31354 38084 42991 55408 14986
54404 57900 60883 72745 04882 51587 32785 19785 68187 06179
12780 23760 67412 64598 71873 85594 14443 71850 03920 23390
36255 67807 37115 67093 26851 70056 21426 83869 47036 01233
95434 32704 49529 91363 42902 42814 56678 52429 87395 65387
10478 68361 99178 000 000

14377/13461/12114 kHz, 12-07, 1700/1720/1740 UTC

317 317 317 1 4328 101 4328 101
20116 31745 40346 36335 75172 57203 72560 82111 78370 98771
30393 77774 46379 06497 36684 70368 78658 11552 30401 25360
05615 66268 63075 60901 22398 22479 02479 39362 16771 58421
66023 86804 92867 99523 58157 17472 30877 12113 39878 66349
02606 94042 54035 88909 08580 08139 75173 59969 44268 62358
65873 13198 45685 72037 65289 31643 00906 77259 77544 42457
57506 28268 23603 43037 24137 50305 93429 47870 75152 24975
48819 70732 20210 83548 16906 41517 92345 50725 25017 41834
13204 78938 77057 79308 61668 08141 97249 27783 36907 77773
99081 19075 00134 67023 17362 58095 40041 13398 26535 98438
46339 000 000

10343/9264/8116 kHz, 12-07, 1900/1920/1940 UTC

124 124 124 1 5426 112 5426 112
15166 22889 88978 95075 72272 86202 19920 46477 84524 10171
97514 92056 86699 35221 45160 24565 37225 54560 39344 10299
16341 46487 64863 93895 04195 23558 08255 03109 80589 16535
82529 45366 95089 51171 49096 66914 47763 52564 53046 31025
47025 04945 58112 37067 93901 34517 73970 63871 88654 95541
50379 97996 97269 75507 91761 02619 32636 54272 85392 94592
75531 16392 66718 27715 57094 80920 44661 97249 07842 33694
15715 25243 90537 72645 17410 11250 19634 01727 12247 84771
50021 46172 11281 77013 97389 06561 33187 01529 30409 00179
31195 23340 58330 60140 56105 08709 95471 42865 16924 45415
89268 26395 55586 38929 50235 12382 35377 38835 94188 15280
64741 85735 000 000

8047/6802/5788 kHz, 16-07, 1800/1820/1840 UTC

463 463 463 1 2623 94 2623 94
08037 32317 83934 38381 63842 83781 66184 21672 89024 22073
43658 45021 84668 60106 02484 96812 22525 09729 57954 84187
83012 92857 99994 53579 48396 35399 04207 05606 77814 46109
07312 55193 29235 70955 98289 39677 10445 46698 60845 01099
66989 44091 14439 63096 24904 94230 67028 96169 93543 02984
79019 05064 01026 92292 75865 03998 54490 30154 78502 01737
02329 65813 13746 40885 34807 44242 17356 62456 34687 44798
95285 01035 51636 62191 86235 24211 52257 04435 84659 22742
46459 38818 27135 51735 47566 26239 55192 72034 83491 83296
70253 92560 55915 85295 000 000

12103/10603/9303 kHz, 17-07/19-07, 0700/0720/0740 UTC

163 163 163 1 8003 45 8003 45
62719 38123 23192 83218 54426 06856 51537 76305 60514 29037
57018 66278 75713 30211 20405 86498 92774 87331 35862 82152
95413 61829 45887 86156 47802 57013 83255 52689 81375 70719
41648 75295 57310 60744 95602 27044 54818 27706 35746 88686
15332 87537 90412 94228 13129 000 000

9373/7979/6879 kHz, 18-07, 2100/2120/2140 UTC

398 398 398 1 394 137 394 137
29985 13104 64491 10185 00927 33659 80946 55269 86364 65375
30029 27641 01019 94051 85531 46200 25394 45166 38954 77250
46738 17421 00885 60444 68571 82643 78335 44164 90387 28158
57106 49512 79079 86470 85108 59218 42601 26424 20689 19375
05494 86624 48685 38404 58665 16134 54401 81412 53837 32595
20118 98533 85236 35789 86931 26675 36806 27455 95889 26482
36701 69470 65379 69504 35161 40918 39488 10837 58500 03027
52943 65062 05731 54149 78765 71148 48368 64817 40891 62568
86905 77281 39101 28456 38575 10188 03752 54825 64656 64387
58844 56173 19599 60135 66015 19462 72581 49764 97343 45578
70220 27298 16828 57845 76444 00071 62483 51023 60586 68484
61102 20124 37476 33132 32898 03097 28750 16948 00890 92925
16514 12579 88804 00166 69203 47621 31776 46206 21587 18120
88275 10374 21811 59352 98239 35079 38594 000 000

10343/9264/8116 kHz, 19-07, 1900/1920/1940 UTC

124 124 124 1 1120 123 1120 123
23468 04929 82102 29714 89945 43395 33330 53846 36146 31865
20443 15017 48655 08843 88972 58459 76091 69963 58872 22076
04771 72420 63428 37961 14443 65872 49134 54642 47065 33152
58981 22814 32303 87687 39814 15184 00564 42395 73880 94530
48109 94620 61021 64291 57893 45803 91096 71517 02351 65622
35077 59326 15038 01089 03939 20222 61811 17248 17292 13481
37197 15553 82165 72964 01372 55153 19415 16498 74660 95660
64380 26665 47311 16227 90521 51391 04514 71260 04686 36794
18461 55783 50061 88069 49601 78010 91085 61571 81425 02174
71271 00100 19493 05577 61711 02863 60384 21825 92851 43343
90203 28013 37374 13697 37780 11102 70736 99225 22527 85664
19927 06814 87898 34755 61146 15626 60613 10834 31852 38830
49493 75862 44746 000 000

9217/10617/12217 kHz, 21-07, 0500/0520/0540 UTC

262 262 262 1 394 137 394 137
29985 13104 64491 10185 00927 33659 80946 55269 86364 65375
30029 27641 01019 94051 85531 46200 25394 45166 38954 77250
46738 17421 00885 60444 68571 82643 78335 44164 90387 28158
57106 49512 79079 86470 85108 59218 42601 26424 20689 19375
05494 86624 48685 38404 58665 16134 54401 81412 53837 32595

20118 98533 85236 35789 86931 26675 36806 27455 95889 26482
36701 69470 65379 69504 35161 40918 39488 10837 58500 03027
52943 65062 05731 54149 78765 71148 48368 64817 40891 62568
86905 77281 39101 28456 38575 10188 03752 54825 64656 64387
58844 56173 19599 60135 66015 19462 72581 49764 97343 45578
70220 27298 16828 57845 76444 00071 62483 51023 60586 68484
61102 20124 37476 33132 32898 03097 28750 16948 00890 92925
16514 12579 88804 00166 69203 47621 31776 46206 21587 18120
88275 10374 21811 59352 98239 35079 38594 000 000

15821/13921/12221 kHz, 23-07/25-07, 1400/1420/1440 UTC

892 892 892 1 476 155 476 155
88022 26552 69009 73177 56734 20355 74657 89414 07499 66576
26761 55960 07840 45922 44655 87672 20295 68239 70998 31465
86692 91624 63784 38777 28715 27137 72424 63407 51470 87270
16411 12398 34969 54315 69779 27425 83069 51746 47157 79170
99317 47216 88160 19408 66051 62290 12709 85421 58134 82814
46237 91559 96376 54273 03622 00652 51788 66590 95506 68738
75586 62608 16291 30603 82470 55478 55510 07403 38604 09577
41838 23230 17249 65988 38998 42732 72541 31377 89123 98423
11686 37896 64495 57514 33595 61659 29056 25455 97815 28917
23399 33754 13654 99013 58638 10625 09598 12702 27390 45650
76944 02932 52467 62824 25676 93872 89012 08649 05639 49318
61953 75298 56848 20343 98829 07121 48882 00811 31305 12492
05868 29755 72621 35846 46207 00535 87095 94834 84332 09879
96963 39207 17610 89586 47140 88464 46639 27288 07904 91515
34743 20910 15304 73510 53866 56520 58075 70396 18534 95131
16092 18763 06717 65516 22177 000 000

8047/6802/5788 kHz, 23-07, 1800/1820/1840 UTC

463 463 463 1 1288 92 1288 92
43350 40695 20334 73360 79457 46270 03095 87844 94598 41307
36739 80921 32960 62118 77316 09345 06773 87511 41772 31147
96069 79151 85712 46605 39071 98315 01980 15514 82358 83381
50345 01576 63409 32417 86429 46570 87400 65441 76518 40742
41114 75209 72232 95605 63616 28960 14930 19795 04453 82189
91693 45526 19708 05405 40219 54926 34322 17417 47807 78593
77831 23664 03531 80144 60968 85587 86042 11849 76781 95404
27134 28304 50020 23707 11802 45707 73369 34702 13839 17783
21978 73177 03952 14149 57159 72428 40923 22383 79684 44335
02915 02949 000 000

10343/9264/8116 kHz, 23-07, 2000/2020/2040 UTC

124 124 124 1 2292 104 2292 104
85955 45733 56509 11861 89189 18406 63047 15161 03281 71317
23663 00675 54829 24196 38683 75850 52666 79708 56494 08334
71331 77446 00670 45819 69284 55725 66356 77247 57166 83872
78734 69272 38773 78571 01956 68533 85399 26287 85058 39657
41880 54220 15617 98712 56073 62976 11193 21618 47750 59470
22784 04445 15667 57224 66395 00344 56710 00079 81304 14814
93679 31835 32274 60512 85725 46460 31846 24215 04831 66842
92156 20118 20314 31189 49983 48997 66334 03060 17596 77287
60367 28819 07145 97396 86049 09553 24490 02648 12029 68203
43924 67311 56148 63477 92861 35750 11432 81551 85997 88689
83474 22994 01138 25518 000 000

14377/13461/12114 kHz, 26-07, 1700/1720/1740 UTC

317 317 317 1 2286 102 2286 102
55053 73898 77342 78224 09572 47685 78229 17699 94145 57516
21291 98312 17727 12990 39726 61242 10485 54678 63425 75512
92149 56979 67267 58928 66913 19788 67478 74424 38698 59041
34073 58146 86208 76102 42319 16780 94852 72004 36818 53484
86208 17478 27417 23723 17315 68197 24354 43666 05335 94736
56637 39814 39378 16854 74151 96793 10327 77863 44974 41192
62134 73073 20012 32594 13992 79318 22760 02494 76157 52544
07632 05555 80316 06695 99537 04528 10770 54461 99199 10130
24206 28116 45808 41325 88716 15823 08357 42375 28271 36587
86690 75236 91747 23242 31101 73625 98981 86482 18296 81827
82710 18303 000 000

10343/9264/8116 kHz, 26-07, 2000/2020/2040 UTC

124 124 124 1 3419 115 3429 115
79676 96330 90580 81345 61510 57143 75542 18249 54473 94365
13920 70934 25499 65491 87252 67561 84484 26647 75851 27124
51336 68263 67476 16443 96305 08298 07841 84927 73776 39995
19873 39688 50494 17699 44608 46841 28472 72535 80830 34774
09001 65315 11782 58173 55767 93649 23366 66665 26022 12077
30593 96667 34452 19830 21025 08951 19840 86695 43348 57416
03447 60412 90569 76629 69750 42940 40377 75218 66913 20701
15947 17322 72582 65003 59518 49536 09142 30959 92454 33363
68732 10860 35287 81613 89457 15765 69231 17182 05597 44631
59149 06881 40949 70754 06426 69271 23506 74275 46249 24670
08723 74865 16689 84422 21655 51830 08361 89317 69931 81579
47016 18531 50313 38611 21198 000 000

10343/9264/8116 kHz, 30-07, 2000/2020/2040 UTC

124 124 124 1 6221 106 6221 106
27895 38501 13122 30839 61984 06313 41497 13009 13713 06530
36597 55051 55017 29209 03073 71750 66439 97707 43029 72597
79580 52102 60379 75563 58579 12576 48027 41876 63186 02143
79654 85943 43837 59412 19354 21586 71848 39190 09654 21685
99997 44827 32847 17472 80765 88029 84125 87636 59733 79446
77327 21291 29693 78747 46278 57058 69466 48157 64684 36231
80672 45591 48765 05006 50790 52684 52806 14010 99285 24579
36305 18852 12033 51943 74375 36430 68035 44430 00110 01302
28051 54041 80813 59927 98767 05943 22542 29349 46434 39007
30685 33775 64894 84580 24460 94844 50948 76276 22834 25039
21987 78626 79359 71173 58179 01232 000 000

M14**18041 kHz, 02-07, 0500 UTC**

952 684 684 50 50 = =
68298 68830 87898 57584 64285 46902 19225 70536 67977 46631
57345 24020 77450 42467 69780 07086 70168 57728 28192 28301
15299 44978 03950 62367 50594 89132 77481 65599 03496 31780
53574 21180 61179 40115 99816 00138 19201 68945 50382 48991
63449 89201 42320 39988 65091 81389 76568 44872 93180 17416
= = 684 684 50 50 00000

18041 kHz, 03-07, 0500 UTC

952 137 137 55 55 = =
 29506 36146 31368 36959 34109 99853 23603 17694 90972 26985
 57588 00645 77773 55887 49933 68240 78602 41762 25358 62610
 71758 89354 48864 90192 71532 556xx 08010 76829 22448 xx402
 06208 78040 xxxxx x2407 53005 74150 xxxxx xx908 81422 62273
 05018 96655 96809 94237 23869 05502 11148 02301 75243 63665
 38396 70585 26408 15756 17980 53136
 = = 137 137 55 55 00000

18041 kHz, 04-07, 0500 UTC

952 608 608 50 50 = =
 46373 77187 33163 44049 86067 21839 92665 49653 88833 80768
 69761 32037 08594 35491 06467 48513 43128 05931 32556 73712
 69366 70655 85478 92906 78782 87601 32716 07548 73826 19968
 20022 70196 11324 96974 93968 91037 03789 64178 72255 83157
 14586 03022 60210 38788 07871 24305 36910 53687 39263 65277
 = = 608 608 50 50 00000

10755/9073 kHz, 04-07, 1300/1330 UTC. Unscheduled transmission. New id.

818 354 354 60 60 = =
 98687 16863 02246 69011 63625 73378 94254 27662 07238 29842
 01687 55926 31728 06329 45212 33602 93293 44837 14875 86174
 70699 70901 71915 62686 98399 77959 64362 82466 43900 32918
 48589 11629 34049 26334 34008 55311 59935 15677 93094 76561
 15089 35087 03942 778_4 46677 70071 17510 05969 24364 20592
 66776 66778 56542 00955 59970 59862 08617 49963 25068 69906
 = = 354 354 60 60 00000

18041 kHz, 05-07, 0500 UTC

952 417 417 60 60 = =
 35173 45288 21131 81110 81921 01033 49217 65145 04001 40372
 87798 53309 50310 45375 10085 00988 19439 92268 88585 02630
 18183 62754 45465 12301 08043 95278 02613 62761 44409 99670
 48603 69031 38098 83601 64743 27358 93946 64300 77378 45528
 06143 63953 28671 65472 14983 12239 83007 64090 54741 04431
 11254 43232 47340 88492 20012 44781 21509 79632 18102 51772
 = = 417 417 60 60 00000

18041 kHz, 06-07, 0500 UTC

952 308 308 55 55 = =
 58194 75134 93350 53481 31828 99262 76091 89301 79623 72242
 63637 03452 48405 85890 78524 00876 99194 01830 86461 73080
 79343 80926 87266 71567 83448 56577 25039 77456 95206 12775
 22261 90736 27429 52904 67513 87583 02379 70194 11488 19184
 39635 55770 50988 50496 43653 05234 05614 62395 08235 09730
 16796 65628 80064 42407 23893
 = = 308 308 55 55 00000

5560 kHz, 07-07, 0905 UTC, i.p.

??? 935 935 65 65
 ????? ???? 63426 14767 45667 45644 45646 81348 44564 24779
 75948 19745 17217 95475 91751 79891 45794 51791 89789 14579
 14571 71714 78975 45632 54697 45456 32468 45313 15879 24566
 56613 98763 65460 51212 53489 17597 95795 97594 56346 12745
 79576 56459 79456 57945 41626 52795 95175 97597 56564 57959
 43179 55678 89731 38979 32465 64878 67894 32156 56489 56489
 89789 56313 64987 54897 31189
 935 935 65 65 00000

18041 kHz, 09-07, 0500 UTC

952 461 461 50 50 = =
08638 28055 50458 96623 60915 88286 72700 47518 85197 15678
24234 01411 52475 24631 49313 15773 06134 87230 59113 75273
88440 84406 81316 08423 67510 59545 21889 65254 69456 97974
56268 41972 45399 80764 92124 63518 28030 86282 70890 59980
57408 37948 00250 97785 80687 21600 34773 51621 55454 20948
= = 461 461 50 50 00000

18041 kHz, 10-07, 0500 UTC

952 378 378 55 55 = =
87946 34713 75610 63099 78975 92509 66038 63393 25795 76307
48274 64535 49971 32779 24891 00459 01513 88699 88434 02237
52468 62687 98865 79013 70308 75864 55616 72073 57034 91133
12727 24243 64937 35754 10475 31814 24968 86909 21957 71175
48628 24944 38037 17333 89348 83973 39124 96519 74264 54532
27192 40070 42346 17975 16500
= = 378 378 55 55 00000

18041 kHz, 12-07, 0500 UTC

952 731 731 60 60 = =
14640 07595 67370 10023 11043 24282 02986 43056 21197 51062
72306 43600 77909 25967 10476 87354 34555 65261 20777 75469
95589 59757 74913 29730 61223 41918 67307 57758 22185 03456
21826 80428 65530 68101 74392 38669 77419 49246 79917 21850
53802 47122 16980 84941 54953 65226 88693 46627 64792 50678
43219 85562 40929 88174 62321 76965 66363 02261 91449 36727
= = 731 731 60 60 00000

18041 kHz, 13-07, 0500 UTC

952 480 480 55 55 = =
12906 26666 34288 16740 26791 71516 19955 73526 59921 17811
27974 63045 88138 29493 76765 45931 32269 73951 94564 94782
87415 62229 89192 86762 04693 51429 28858 51364 48833 26522
19934 03051 80118 03735 92647 13443 34059 22706 30614 02738
97267 19598 05157 55063 02961 98359 00349 87443 94526 42315
39716 27058 30598 33273 50541
= = 480 480 55 55 00000

5560 kHz, 14-07, 0900 UTC

171 725 725 25 25
45323 09898 65423 76878 65543 23443 23121 09087 54237 78452
23541 09099 43265 77177 89982 00709 54543 07089 13265 82836
09901 56732 89346 01070 67812
725 725 25 25 00000

18041 kHz, 18-07, 0500 UTC

952 610 610 50 50 = =
53754 48512 85042 20593 83737 56049 73625 31948 52552 09439
32742 16404 59330 66516 37486 53993 02069 81404 54149 29567
46985 70034 61577 08322 49924 35917 73793 17681 09499 54616
56085 96457 56661 40339 51729 97238 10384 43098 61550 52935
54143 49881 43502 43427 12890 88251 24452 23237 35199 55843
= = 610 610 50 50 00000

18041 kHz, 19-07, 0500 UTC

952 374 374 60 60 = =
43729 56489 46202 86555 83421 49042 37524 76484 52295 52742
68605 74383 52207 94139 33499 32036 24673 68769 24700 61019
48049 45833 50303 87230 53959 69073 32118 10217 67645 77272
01926 53212 01932 92822 38067 14840 59486 51798 09560 58416
23076 73966 19909 99785 38496 96183 67820 79625 19858 17602
66998 31170 31935 30130 92202 79272 29244 32592 43772 31758
= = 374 374 60 60 00000

18041 kHz, 20-07, 0500 UTC

952 180 180 55 55 = =
35189 68838 74415 16013 52935 09099 07084 04848 67854 53736
62019 45986 44418 83775 12681 23392 60814 57027 57470 50825
69609 30152 23804 60949 87027 23790 87515 71096 65523 04196
74781 61629 29350 79816 38746 27842 77798 36245 28050 91325
85803 57989 89434 81757 56595 10503 71614 25020 06098 80893
22618 98623 83745 00777 97756
= = 180 180 55 55 00000

5430/5560 kHz, 21-07, 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

18041 kHz, 23-07, 0500 UTC

952 364 364 50 50 = =
94303 47660 44951 76718 51127 70968 83897 15829 30171 91769
56330 22755 01825 01043 87327 48857 27633 05329 78615 22842
26608 51993 03620 69832 89275 93260 96383 99662 37930 81201
95257 69107 56508 10863 27322 47713 38533 53741 44459 41947
26559 48762 47034 57318 41564 42973 56103 03181 25714 99131
= = 364 364 50 50 00000

6856 kHz, 24-07, 1820 UTC

163 732 732 32 32
98878 54347 07091 00700 34512 56432 07054 54632 87956 45321
98021 07051 75634 78643 54654 87943 05082 13267 92935 01070
90091 54532 98213 05056 67834 56734 00100 63728 98458 77277
56734 98890
732 732 32 00000

18041 kHz, 25-07, 0500 UTC

952 606 606 50 50 = =
49165 26476 14381 64792 16912 30975 59371 70473 90283 29216
40203 86349 46112 79940 98512 35221 46510 09316 18136 76276
62500 22815 53273 89685 15706 07436 08325 19486 11548 91436
05310 54464 62385 53773 99830 51705 24031 00441 31503 32511
94087 49889 19803 05370 45530 94714 41257 95657 93992 31802
= = 606 606 50 50 00000

[illegible]

Errors in the header and at the end.

952 743 743 55 55 = =
 46657 35536 64200 44035 26568 85070 76914 08503 31812 17910
 34650 67102 85658 47537 65532 39053 52150 08894 92880 58990
 69671 94948 61786 28618 02966 85547 27121 75490 30801 54489
 32656 67365 11468 65756 35983 55553 93294 94852 58920 45714
 62369 36164 68105 19532 44661 82300 15433 55701 04718 86347
 93059 23674 08135 42960 82640
 = = 743 743 55 55 00000

952 810 810 60 60 = =
 16164 13456 95159 27768 75630 85953 52140 78385 23610 31870
 69516 92827 76492 13981 40347 07255 44442 04967 12291 56229
 56594 07112 54839 52616 79303 37325 53208 00788 00909 44696
 64824 22811 81429 52743 99347 02316 90652 43565 08168 75724
 83018 26074 94313 25527 82781 55493 78700 55306 77845 96315
 83672 51177 45734 45907 19767 59346 60131 60940 86629 34469
 = = 810 810 60 60 00000

171 349 349 56 56
45644 45646 81348 44564 24779 45456 32468 45313 15879 24566
56631 98763 65460 51212 53489 43179 55678 89731 38979 32465
64878 67894 32156 56489 56489 89789 56313 64987 54897 31189
56478 56789 32188 32478 21568 24878 32485 24589 32489 23458
89731 23132 32456 54231 21553 84763 32488 02121 03213 21022
31034 56450 31545 02458 81230 67312
349 349 56 56 00000

171 707 707 42 42
89734 67523 56423 45678 45398 87943 76834 67843 67854 89056
78654 89543 87645 98007 00578 56743 09854 67230 63028 56489
42367 98054 34578 32189 01017 65732 98023 56723 78923 01234
54677 78923 56743 75623 07089 45467 01925 01023 56723 92934
65723 76534
707 707 42 42 00000

952 647 647 50 50 = =
 33695 70167 31698 13945 16824 07816 62692 46255 82945 50633
 84591 28699 29331 00568 60137 14997 99657 26374 59938 67349
 25706 65833 42300 99325 60552 85480 20649 56743 01712 90056
 79490 41219 27656 98836 24851 06086 96140 31052 80109 79362
 77798 67579 63200 93457 23420 81086 06080 26301 88353 51816
 = = 647 647 50 50 00000

18041 kHz, 31-07, 0500 UTC

952 138 138 55 55 = =

44941 15014 81858 33560 79883 77654 57650 40220 25410 35077

36994 14398 65158 85825 89339 62021 97098 36421 05670 04865

39457 99745 34156 77616 09786 59146 44441 68007 19370 09201

75208 73443 50146 09081 44755 72586 06333 09451 29228 35307

57958 38837 38228 19454 18461 60411 42468 27881 23570 35116

33165 24163 03637 52081 17857

= = 138 138 55 55 00000

M21 - Russian Air Defence Forces (Во́йска ПВО Voyska PVO)

8616 kHz, 01-07, 0840 UTC

=99?1140?9?????

8616 kHz, 01-07, 1142 UTC

=99?1144?9?????

8616 kHz, 01-07, 1148 UTC

=99?1150?9?????

5431 kHz, 01-07, 0923 UTC

=99?1223?9?????

6843.5 kHz, 02-07, 0638 UTC

=991935??0?????

3300.5 kHz, 04-07, 1429 UTC

=99?1728?9?????

8616 kHz, 05-07, 1153 UTC

=99?1453?9?????

4582 kHz, 05-07, 1227 UTC

=991527??0?????

4440 kHz, 05-07, 1231 UTC

=11003020696830 =991531??8?????

5221.5 kHz, 18-07, 2038 UTC

=992348??0?????

3691.5 kHz, 21-07, 1823 UTC

=992123??0?????

4385.5 kHz, 24-07, 1858 UTC

=99?2158?9?????

6440.5 kHz, 25-07, 0330 UTC

=10371168519432 =113091456495428 =21391701090804 =990631??0?????

5431 kHz, 25-07, 0429 UTC

=99?0728?9????? =11391454593827 =21391901100922 =99?0732?9??????

6222 kHz, 25-07, 0440 UTC

=990742?0??????

4582 kHz, 24-07, 1337 UTC

=991636??0?????

3267 kHz, 25-07, 1303 UTC

=991603??0?????

4601 kHz, 25-07, 1429 UTC

=00830956059514030 =0154090821851100900

7460 kHz, 24-07, 0536 UTC

=10003701050620 = 10004363371836 =10005163393637 =10006163393937

=10007163393137 =10008163399437 =10009363378238

5323 kHz, 29-07, 0719 UTC

=991019??0?????

M41 - Russian Air Defence Forces (Во́йска ПВО Voyska PVO)**5037 kHz, 04-07, 1800 UTC, i.p.**

GPY1 GPY1 AR

4635.5 kHz, 05-07, 0505 UTC, i.p.

836604 =

9723252838804

9724252837204 9728252837104 =

009727252933991000806511800 =

9728252838608 9924252838808 9731252232008

9727252239508 9732252 939108

4959 kHz, 05-07, 1522 UTC, i.p.

99621 ... V6OD V6OD AR

5044 kHz, 05-07, 1701 UTC, i.p.

O38R O38R AR

M51a - FAV22 etc.

8566 kHz, 04-0, 1345 UTC, i.p..

RXCDG CBXVM YHFGC BSKLA IKQLS DLMXB VWHRT 27648 01984 DHNVX
WBSHZ QJKAJ KLSGF CGVXO LAIJH BXNDY RZYSU QJAIK SKHNQ WCXYR
TJGBC VJAPL UJDGB ZYHSK 376/3 DHBXJ QKALP SJHGB CVRPA LKHNB
CJDUR UJDVG KBSJZ QJNWN LAUZR DHBCN XJSUK QLKFG CHNDU HJSTY
IKGHD VXB DG 35271 HNVCH 45383 SHBXJ QJAKL DGFUY HVCND ETDFX
IKDHB VDP AJ CHFGT SJWNS KQLAI UJDGC BXHRT DHSKZ QJKSG UJGBC
VSHRT SJQHU 35473 SJAKI UHFGC 563/9 HNVXJ SJAKL SMQPO IKHNB
CGDLR DHFCV FGCKL SJNWK ZUHGC VFRZT SHBWN JSELZ QLHJR GBCJT
GXBWH QJNAJ QKALO QMLKA UJSHD GBXJW SUZTQ AJHDK SOQMA IKDJS
36281 89374 AIKDH WNB SH APLDJ SKAMP DJSKZ QJAKI QOLAI PDJSH
WBSGZ 37628 QJNAK WJHSU AIKDM SIUAP QMALU QJNHD GDHSJ ZUHQJ
AKJQL IJWNB XKCVD QKAJM SPJHF XHNDJ SUJZO QKKAP WNBCH YHDNW
PLQJU ZIKSM QLKAO YHDGX 53728 10197 XBDGS QNWJR SJZKA PLAHJ
WVXBD QHAJE SKALP QMLAK JHSGD VXBWN QJHAU SJETS ZJHQB YHSLK
APMSH WVC GD FMAPL WNBXP DYHEU 32763 WNBXH SJZKA ILSJH HJDKZ
WBXVS QJASI J8719 YGDHX HDGZU 6735/ WBJXU DGAPM WNQHZ HJSKA
WXJE SJZHQ AIKSP QLKAU DGC VX WBSHZ QUJAG SJQKZ APMHF UALDP
WNBXJ ZYSGQ 37219 WBXHD YZIGH QKJNI AIKDL WMQPH BCHRT TGSCV
AUJDG WBVXH QKJAP OGDVX WGFRT SHAUJ 45287 BWNSH ZUJAP YHDKA
IOAHG VCFDC XBWHX ZJHNN QKAOL DHSUY //367 GBCJF XJSIK OKDHS
WBXVD QAJAK QLAMP UJGCV DHETS QRGDG XVCJD WKJZI QKJAO UJFHD
WXJS ZKLQP 28645 SGWBX JQKAO PLAUH /764/ JNFHD UJDKS IKALO
SJDGF CJD LA PMQKX WJFML TYHFK DHN XD SJEKZ UJSLK UJDHX CKDGE
SHGDB XNSJZ QKALM PLOLK NCHFK 65483 SGBXJ WJSUZ PLGHL XNB DK
SKLZM QNWJZ AHJDK WCXVD 53872 WBNXJ 01875 UJDKL WNB JD ZYHDK
QLKMA HNDJC UJDKL SJHTF SJHTF CBXGR GSHZQ MQJFV PMAUH BCFVG
SHZYA 37619 NWSJS DGSZ QJNWK ZUJAP LQMAY DGC VX IJFHC XBSKA
UJQLW NXVCJ SKEUD OLSPA MQKJG CBFGT JDXKC 20617 DHEMS WBKHD
SJAIO QKLAY DLFGC VSHDF XJSKZ WQKDH XAJEO ZHQJZ AHDJS WVKXS
AUJSK AJNWX KLQPE SHGDU ZHDFX WBSJZ HDJSI 36287 10638 HSGDT
XVDJS KQLAP UJDLS XNFGC ZUJSL PAKLD GBXJS ZJQKA PLWCV DGXVF
CNETS 46382 BXNTG SJAUJ GDFSJ ZUHDF XCAIK LOMAI PQKAU DHSJR
ZTGSB BVC FX WNSJZ QKAUI UFOLA MPLKJ HNBVF CXHSU AJGQD XKNJI
52718 9462/ HNCVS WNSGR PMLDF HNERZ CXVWH ZUJSK AIKQJ HNXVS
WHZRT AUJSL WOKLJ NQHDG YHDGS XVCHZ TSGQJ AOLQP MAUJM 27489
JNVBF KGS HA 23482 HNXVD SHAZJ OLNHB NCJRY DFXCS WBQHZ AJKSM
QPJKV BXNDH ZUHSJ QKNHY GBFR YHGBV CNDFR SJOLQ LPAMU UJHGD
VWCXG DHRTZ QJNAU JKLIZ IKHBY DZVVC BCHUJ SKLAZ PMJKL 74538
ZUJGV XBSJZ QJNKA KLQPO IOBNG UHNBG VFCKO LAZSO WLKNP FVSHL
MAOKP SHQJL BHDGX WVDJR CJNGH YUZGW XNSJK ALPMD XHNFJ RTSU3
46378 HGCBD WNSDZ AJKQL PMYGV PALKF HCB DU RTSJZ QJAKI DKLSV
WBQHA JKQIO LK DGR VXC DG CBXVM YHFGC BSKLA IKQLS DLMXB VWHRT
27648 01982 DHNVX WBSHZ QRTKL KLSGF CGVXO LAIJH BXNDY RZYSU
QJAIK SKHNQ WCXYR TJGBC VJAPL UJDGB ZYHSK 376/3 DHBXJ QKALP
SJHGB CVRPA LKHNB CJDUR UJDVG XBSJZ QJNWN LAUZR DHBCN XJSUK
QLKFG CHNDU HJSTY IKGHD VXB DG 35271 HNVCH 45383 SHBXJ QJAKL
DGFUY HVCND ETDFX IKDHB VDP AJ CHFGT SJWNS KQLAI UJDGC BXHRT
DHSKZ QJKSG UJGBC VIEHC SJQHU 35473 SJAKI UHFGC 563/9 HNVXJ
SJAKL SMQPO IKHNB CGDLR DHF-- FGCKL SJNWK ZUHGC VFRZT SHBIJ
SKLTD QLHRC GBCAG GDFSQ BWCXV SDARF STYUI QLOMA YTGDF RTGSR
ZCWVS QNHNB VCGFT PMAIK NCVXG QJKIH KAUE R SQFZR ATGDT 45273
KÄLAP MOAUJ BCNGY YHTGF DJSUY RTZWX QCAVB 26177 HNDVX RYEGH
DK%BD CNBVX WJQUW YHDGE ZUSHQ WNBXV ZUJAI KQLAP MQNHJ WKIU-
YDHGU ETIFI MMAPL BUGF- XTWHZ QJAWK (s/off)

M89 - Chinese military

9090 kHz, 09-07, 1102 UTC, i.p.

VV HLP9DE 0MQR K
VV HLP9 DE 0MQR QSY 13 K QSY 13 K QSY 13 K
VV HLP9 DE 0MQR K
VV HLP9 DE 0MQR K QSY 10 K QSY 10 K
VV HLP9 DE 0MQR QSY 21 QSY 21 K QSY 21 K QSY 21 K
VV HLP9 DE 0MQR K
VV HLP9 DE 0MQR K

4894 kHz, 27-07, 1500 UTC, i.p.

DP81.1 QSA 2 I ?
DP8191 QSA 2 U ?
DP91E DP8191 QSA 2 .?
DP8191 QSA 2 ? K
DP7191 QSA .. ?
DP7191 QSA I U ?
DP8391 QSA 2 U ?

5478 kHz, 27-07, 1517 UTC, i.p.

53N7 53U6 35A4 AR K
OK U GA
R QSL 2325 K
HR WK NR 12981829 K
OK K
SK SK
GB SK GB

7623 kHz, 27-07, 0037 UTC, i.p.

VV NNDL ... K
NNDL
QSA 2 ?
QSA 2 (Both station on this frequency)
OK GA
OK
NR 361 CK 50 22 0727 0837 K
R NR
NR NR 361 CK 50 22 0727 0837 K
GA
OK DYXXJ K
GA
R OK =
WLQT URVT QONZ LTWQ RTUK EPFR XTGD MUAO MJLS HGDM NBOR VCXR (Cont'd - Rare 4 letter code) AR K
.YXXJ QST EEEE QSL 0844
OK SK OK SK

7811 kHz, 27-07, 0847 UTC, i.p.

R AS
R FF NR 0330/EX 1647 K
R R FF NR 0330/EX K
R BT GMF. K
R R GA K
R GA K
R QSL 165. K
R HR .. GA
NR 331 CK 15.
R RPT K
QSL 1657 K
HR 7G

.31 NR 13.1 CK 151 .1 0727 1658 RMKS 6123 TO 6122 K
R = .ATU 645A 5U47 (Cont'd)

8888 kHz, 27-07, 0056 UTC, i.p.

NR 3025 CK 20 24 0727 0856 RMKS .931 TO 3901 AR K
HW ?
DE LWBH R QSA 3 ANS IEC = 2BBB AR
OK PSE GA
CY OK PSE GA
QSL 0858 OK
NIL SK
GB

4272 kHz, 29-07, 1359 UTC, i.p.

RPT 88W TO 91W K
RPT 88W TO 91W = N463 DT.A 7N.3 AR K
RPT 88W TO 98W K (Both stations on this frequency)
RPT 88W TO 98W = = N463 DT7A 7N43 UTD5 6A4T 73A5 ...
RPT 88W TO 98W = = N463 DT7A 7N43 UTD5 6A4T 73A5 D.N. NT35 7N.D U.5A AR K
RPT ?
RPT ?
RPT 88W TO 91W K K
R RPT 88W TO 91W = = N463 DT7A 7N43 ? 7N5T 3AN K
R QSL 2206 .. K
R HR WK NR 225.. K
R NIL SK
OK NIL SK GB

3340 kHz, 31-07, 1146 UTC, i.p.

NJE8 DE H2IF NR 1211 / EX 1948 RKMS 9229 TO 9227 9221 = /465C AR K
HR MSG NR 9305 CK 81 32 03 07 31 1951 RMKS 9229 TO 9227 9221 =
TNU3 3DNT 3573 N64N 4D6N ... / ...

M95

4381 kHz, 25-07, 1321-1332 UTC, i.p.

NR 1204/EX 0809 = YDS7/DF9D AR
QSY 5 QSY 5 VVV SD87
NR 18 AR
NR 1205 / EX 0812 = 345S/7DS7 (repeated 2x)
1206 / EX 0812 = 345S/7DSQ AR
QSY 6 QSY 6
DSOP
NR1206 /EX 08 AR
NR1206 EX 0815 = 173EI/OEO AR (repeated 2x)
QSY 7 QSY 7
VVV QWE9
QWE9 QWE9
NR 1207 / EX 0818 = 4D8D/KDI9AR
NR 1207 / EX 080 18 = 4D8S/KDI9 AR
QSY 8 QSY 8 VVV 6CVS
NR 1208 / EX 0821 = D4FE/OSMD AR
NR 1208/EX 0821 = D4FE/OSMD AR
QSY 9 QSY 9 VVV 4VH5 4VH5
NR 1209 / EX 0824 = O4DV/VDK5 AR
QSY 10 VVV 8UIV 8UIV
NR 1210 / EX 0827 = VHSO/VUF3 AR SK SK

9054 kHz, 26-07, 1146 UTC

HR 7G TO YR PSE CY
NR 39 CK 16 35 0727 0.18 =
.. T73 43A4 TTA TTU TT3 773 353 N3D (Cont'd)
7G AGN
NR 39 CK 16 35 0727 06.. =
U.5 TU7 3U4 4A4 TTA TTU TT3 773 353 N3D (Cont'd)
HR 7G GA
NR 070 CK 23 35 0727 0644 =
5TD UTT TU7 3U4 3A4 354 374 (Cont'd - 2350z)
AR
7G AGN
NR 070 CK 23 35 0727 0644 =
5TD UTT TU7 3U4 3A4 354 374 (Cont'd)
AR
HR 7G GA
NR 53 CK 080 35 0727 0705 =
UTU TU7 3U4 34T (Cont'd)

4364 kHz, 27-07, 0012 UTC

V BNGC (x3) DE XSV85 (x2)
HR 7G GA
NR 0642 CK 139 35 0727 0655 =
TU7 3.. 3A4 TAU
773 356 4AA NN3 434 (Cont'd)

Note: V26 and Q26 started at 0001 resp. 0003 UTC on 4364//8073 kHz. Q26 started on 8076 kHz but they quickly switched to 8073 kHz. M95 however was only sent on 4364 kHz

MC03 - Chinese Air Defense

Uses short numbers: AU34567DNT = 1234567890

3250.5 kHz, 01-07, 1638 UTC. Time marker

AU34567DNT 0034
AU34567DNT 0035
AU34567DNT 0036
AU34567DNT 0037
AU34567DNT 0038
AU34567DNT 0039
AU34567DNT 0040
AU34567DNT 0041

3250.5 kHz, 04-07, 1350-1404 UTC. Time marker

AU34567DNT UAT6
AU34567DNT UAT7
AU34567DNT UATD
AU34567DNT UATN
AU34567DNT UAAT
AU34567DNT UAAA
AU34567DNT UAAU
AU34567DNT UAA3
AU34567DNT UAA4
AU34567DNT UAA5
AU34567DNT UAA6
AU34567DNT UAA7
AU34567DNT UAAD
AU34567DNT UAAN
AU34567DNT UAUT

3250.5 kHz, 05-07, 1553 UTC. Chinese Air Defense tracking i.p.

373 UAA358 TTUUN3A DN3 DA5D5T
373 UAA357 TTUUN3A DNU 6A5D5A
373UAA357 TTUUN3A DNN AA5D5A
373 UAA357 TTUUN3A DND 4A5D5U
373UAA357 ATUUN3A DND AA755U
373UAA357 TTUUUAA 357 TUUN3ADNAAA6D53
373 UAA357 TTUUN3A DN3 NA5D40
373 UAA357 TTUUN3A DN3 DA5DHT
373 UAA357 TTUUN3A DNU 6A5D5A
373 UAA357 TTUUN3A DND 4A5D5U
373 UAA357 TTUUN3A DNA 7AD553

Same traffic converted to digits:

373 211358 0022931 893 815850
373 211357 0022931 892 615851
373 211357 0022931 899 115851
373 211357 0022931 898 415852
373 211357 1022931 898 117552
373 211357 0022211 3570022931891116853
373 211357 0022931 893 915840
373 211357 0022931 893 815850
373 211357 0022931 892 615851
373 211357 0022931 898 415852
373 211357 0022931 891 718553

3250.5 kHz, 05-07, 1619 UTC. Chinese Air Defense tracking i.p.

373 UAA357 TTAUN3A NAU 3A5DA7
373 UAA357 TTUUN3A NAU NA5DA7
373 UAA357 TTUUN3A NAU 7 A5DAD
373 UAA357 TTUUN3A NAD UA5DAN
373 UAA357 TTUUN3A D3UA A5DA

8960 kHz, 27-07, 1130 UTC Cut numbers. Grid tracking, garbled transmitter

5089.5 kHz, 27-07, 1235 UTC Chinese Air Defense. Grid tracking

5089.5 kHz, 27-07, 1254 UTC

373 UAA4DT DN37U73 T76 5U
373 UAA5NN D737AN6 T33 UT5U
373 UAA57D DD37N5U 63U 5U
373 UAA6U5 DD37U4T 63U T5

5089.5 kHz, 27-07, 1445 UTC

556 UAA3UA D73NAN3 TDN 4U
373 4TA7DD NT35U57 TNA 43
373 UAA3U3 DN373DN T75 43
373 UA557N 5N3A663 TN7 43
373 UA56AD 6U44367 A73 43
373 UA557N 5N4A6A7 TN7 44
373 UA56AD 7U443N6 T76 44
447 UAA3U3 DN374A7 T7N 44
373 UA557N 5N5ADN5 TN7 45
373 UAA375 DD3D3AN AN3 U546
37A UA56AD 7A457A4 T7D 47
446 UAA373 D73D7A5 TD5 47
373 UAA3DT D737A64 T36 UU47
373 UA557N 5N4T3N4 TN7 47
373 UAA377 D63DA76 T4D 4D

UM03 – Chinese X2M net

7920, 8250, 8410 kHz, 26-07, 0021 UTC, i.p.

AR

07 07 CK 100 CK 100 TIME 0720 TIME 0720 DATE 2707 DATE 2707 =

XZORG PRGJY VKMBE TVKNC LZODF ODGVX YZBQT RTILA DXMPE YNPEW (Cont'd)

7920, 8250, 8410 kHz, 26-07, 0837 UTC, i.p.

CK 100 CK 100 TIME 1536 TIME 1536 DATE 2707 DATE 2707 =

A74D6 N57AU A3UN4 3DT57 UA3NT 4TA75 (Cont'd)

5525 kHz, 26-07, 1420 UTC, i.p. (Rare 5 letter code)

TBXPG UGVRF CSDDM AR W

NR 45490 NR 45490 CK 62 62 =

MZZFI RZACW VLEMP (Cont'd)

5525 kHz, 26-07, 1521 UTC, i.p. (Rare 5 letter code)

JRJYF XGS.Q EGEPS PLGSD AGUII CLSQP ZSUBA

AR

NR 46691 NR 46691 CK 62 62 =

GAGXU JCQDM BFUGV B.RW. (Cont'd)

4108 kHz, 26-07, 1536 UTC, i.p. (Rare 5 letter code)

PPGXG PVHBA NNUKP

AR

NR 46991 NR 403991 CK 62 62 =

EIR.. ABCAV A..BN (Cont'd)

UM10 - 10-minutes net

7380 kHz, 01-07, 0855 UTC	MIBH
7380 kHz, 01-07, 0925 UTC	MIBH
7380 kHz, 02-07, 0555 UTC	MIBH
4310 kHz, 03-07, 1355 UTC	QK4S
3542 kHz, 24-07, 1821 UTC	HDNA
3257 kHz, 25-07, 1254 UTC	SDXL
3542 kHz, 26-07, 1751 UTC	HDNA //4116 kHz
3629 kHz, 26-07, 1754 UTC	SDXL
3629 kHz, 27-07, 1320 UTC	SDXL
3629 kHz, 27-07, 1350 UTC	SDXL
3542 kHz, 27-07, 1621 UTC	HDNA //4116 kHz
3629 kHz, 27-07, 1623 UTC	SDXL
3542 kHz, 28-07, 1621 UTC	HDNA //3629 kHz
3629 kHz, 28-07, 1621 UTC	HDNA //3542 kHz
3629 kHz, 28-07, 1623 UTC	SDXL
3629 kHz, 29-07, 1620 UTC	SDXL
4116 kHz, 29-07, 1550 UTC	HDNA
5918 kHz, 30-07, 0922 UTC	QUXF //6780 kHz. New callsign
6790 kHz, 30-07, 0922 UTC	JATD
3629 kHz, 30-07, 1800 UTC	SDXL

HM01 - Dirección General de Inteligencia

HM01 RDFT file log by MDK2

Date (DDMMYYYY): Numbers: File name or repeat: Frequency (kHz) and time(UTC):

01/07/2018	03268	20070326.txt *	11435 1600
	15381	12821538.txt	
	10707	78201070.txt *	
	36366	34203636.txt *	
	17002	15621700.txt *	
	40351	50844035.txt	

* First transmitted in June 2018. None of these are new as of 01 July.

12821538.txt appears to be in unencrypted Chinese. 50844035.txt in encrypted per usual practice.

02/07/2018	03269	repeat	11435 1600
	12281	78421228.txt	
	10708	repeat	
	36367	repeat	
	17003	repeat	
	40351	repeat	

New file appears to be unencrypted Chinese.

03/07/2018	07481	00520748.txt	11435 1600
	15382	repeat	
	12281	repeat	
	36368	repeat	
	17004	repeat	
	40352	repeat	

Tuned in at 15:57, strong carrier. But no audio until 16:16:25, when the last 15~ seconds of the sixth RDFT file was transmitted. It's typical for HM01 to "join the broadcast already in progress" when it starts late.

04/07/2018	07481	repeat	11435 1600
	15383	repeat	
	12282	repeat	
	51681	50005168.f1c	
	17005	repeat	
	40353	repeat	

05/07/2018	07482	repeat	11435 1600
	15384	repeat	
	12283	repeat	
	51681	repeat	
	17006	repeat	
	40354	repeat	

06/07/2018	07483	repeat	11435 1600
	15385	repeat	
	12284	repeat	
	51682	repeat	
	17007	repeat	
	40355	repeat	

07/07/2018	07484	repeat	11435 1600
	15386	repeat	
	12285	repeat	
	51683	repeat	
	17008	repeat	
	40356	repeat	

08/07/2018	07485	repeat	11530 1700
	15387	repeat	
	12286	repeat	
	51684	repeat	
	20461	48652046.txt**	
	40357	repeat	

** Technical problems on all broadcasts copied today. Very weak signal with occasional sporadic moments of HM01 at full strength, which allowed me to hear the number sets and identify a new one, but not copy the RDFT file associated with it. HM01 continued to have troubles throughout the day, with broadcasts entirely missing, possibly not on the air at all for the 0500-1000 set (excepting a carrier without audio, but with significant distortion, for part of the 0500 hour). The file was finally received on 10 July at 0500z.

09/07/2018	07486	repeat	11462 0500 (10 JUL)
	60301	52886030.txt	
	12287	repeat	
	51685	repeat	
	20461	repeat	
	40358	repeat	

No broadcast at 1600 1700 or 1800. I forgot to check for 2100 or 2200 broadcasts, but did see a report that the 2200 broadcast on 10715 was on. This transmission was strong and solid.

10/07/2018	07486	repeat	11435 1600
	60301	repeat	
	12287	repeat	
	51685	repeat	
	20461	repeat	
	40358	repeat	

REPEAT of 09 July's number sets and files, perhaps making up for lost transmissions for 1600-1800.

11/07/2018	07486	repeat	11435 1600
	60301	repeat	
	12287	repeat	
	51685	repeat	
	20461	repeat	
	40358	repeat	

REPEAT of 09 July's number sets and files. This is now looking like one of HM01's occasional periods where it repeats for days or even weeks on end.

12/07/2018	07486	repeat	11435 1600
	60301	repeat	
	12287	repeat	
	51685	repeat	
	20461	repeat	
	40358	repeat	

REPEAT of 09 July's number sets and files.

13/07/2018	07486	repeat	11435 1600
	60301	repeat	
	12287	repeat	
	51685	repeat	
	20461	repeat	
	40358	repeat	

REPEAT of 09 July's number sets and files.

14/07/2018	07486	repeat	11530 1700
	60301	repeat	
	12287	repeat	
	51685	repeat	
	20461	repeat	
	40358	repeat	

REPEAT of 09 July's number sets and files. Very faint signal today.

15/07/2018	07487	repeat	11530 1700
	60301	repeat	
	46621	86514662.txt	
	51686	repeat	
	20462	repeat	
	74861	62547486.txt	

First new set since 09 July. 86514662.txt appears to be in unencrypted Chinese, but 62547486.txt is encrypted.

16/07/2018	07488	repeat	11435 1600
	60302	repeat	
	46621	repeat	
	51687	repeat	
	20463	repeat	
	74861	repeat	

17/07/2018	07489	repeat	11435 1600
	60303	repeat	
	46622	repeat	
	12041	51551204.txt	
	20464	repeat	
	74862	repeat	

18/07/2018	77001	36227700.f1g	11435 1600
	60304	repeat	
	46623	repeat	
	12041	repeat	
	20465	repeat	
	74863	repeat	

19/07/2018	77001	repeat	16180 2100
	60305	repeat	
	46624	repeat	
	12042	repeat	
	20466	repeat	
	74864	repeat	

20/07/2018	77002	repeat	11435 1600
	60306	repeat	
	46625	repeat	
	12043	repeat	
	20467	repeat	
	74865	repeat	

21/07/2018	77003	repeat	11435 1600
	60307	repeat	
	46626	repeat	
	12044	repeat	
	20468	repeat	
	74866	repeat	

22/07/2018	77004	repeat	11435	1600
	80171	47568017.txt		
	46627	repeat		
	12045	repeat		
	32571	08313257.txt		
	74867	repeat		
23/07/2018	77005	repeat	11435	1600
	80171	repeat		
	38871	38533887.txt		
	12046	repeat		
	32571	repeat		
	75431	13327543.txt		
24/07/2018	77006	repeat	11435	1600
	80172	repeat		
	38871	repeat		
	12047	repeat		
	32572	repeat		
	75431	repeat		
25/07/2018	77007	repeat	11435	1600
	80173	repeat		
	38872	repeat		
	25541	40752554.txt		
	32573	repeat		
	75432	repeat		
26/07/2018	68281	48676828.txt	16180	2100
	80174	repeat		
	38873	repeat		
	25541	repeat		
	32574	repeat		
	75433	repeat		
27/07/2018	68281	repeat	11435	1600
	80175	repeat		
	38874	repeat		
	25542	repeat		
	32575	repeat		
	75434	repeat		
28/07/2018	68282	repeat	11435	1600
	80176	repeat		
	38875	repeat		
	25543	repeat		
	32576	repeat		
	75435	repeat		
29/07/2018	68283	repeat	11435	1600
	80177	repeat		
	38876	repeat		
	25544	repeat		
	32577	repeat		
	75436	repeat		

30/07/2018	68284	repeat	11435 1600
	00121	63130012.txt	
	38877	repeat	
	25545	repeat	
	32578	repeat	
	75437	repeat	
31/07/2018	68285	repeat	11435 1600
	00121	repeat	
	38878	repeat	
	25546	repeat	
	32579	repeat	
	75438	repeat	

HM01 RDFT file reference

All July RDFT files have been logged, all copies of received files are online and may be viewed or downloaded here:

<https://www.dropbox.com/sh/drwzohiihg1qrrh/AAAAEAqaphlOLPpUZD3aR3ma?dl=0>

Sort by file name

File Name:	Number group:	Date first transmitted (DDMMYYYY):
00520748.txt	0748#	03/07/2018
12821538.txt	1538#	01/07/2018
13327543.txt	7543#	23/07/2018
15621700.txt	1700#	29/06/2018 *
20070326.txt	0326#	23/06/2018 *
34203636.txt	3636#	25/06/2018 *
36227700.f1g	7700#	18/07/2018
38533887.txt	3887#	23/07/2018
40752554.txt	2554#	25/07/2018
48652046.txt	2046#	08/07/2018
48676828.txt	6828#	26/07/2018
50005168.f1c	5168#	04/07/2018
50844035.txt	4035#	01/07/2018
51551204.txt	1204#	17/07/2018
52886030.txt	6030#	09/07/2018
62547486.txt	7486#	15/07/2018
63130012.txt	0012#	30/07/2018
78201070.txt	1070#	24/06/2018 *
78421228.txt	1228#	02/07/2018
86514662.txt	4662#	15/07/2018

Sort by Date

Date (DDMMYYYY)	File name or repeat:	Numbers:
23/06/2018	20070326.txt	0326# *
24/06/2018	78201070.txt	1070# *
25/06/2018	34203636.txt	3636# *
29/06/2018	15621700.txt	1700# *
01/07/2018	12821538.txt	1538#
01/07/2018	50844035.txt	4035#
02/07/2018	78421228.txt	1228#
03/07/2018	00520748.txt	0748#
04/07/2018	50005168.f1c	5168#
08/07/2018	48652046.txt	2046#
09/07/2018	52886030.txt	6030#
15/07/2018	86514662.txt	4662#
15/07/2018	62547486.txt	7486#
17/07/2018	51551204.txt	1204#
18/07/2018	36227700.f1g	7700#
23/07/2018	38533887.txt	3887#
23/07/2018	13327543.txt	7543#
25/07/2018	40752554.txt	2554#
26/07/2018	48676828.txt	6828#
30/07/2018	63130012.txt	0012#

Sort by number group

Number group:	file name:	Date:
0012#	63130012.txt	30/07/2018
0326#	20070326.txt	23/06/2018 *
0748#	00520748.txt	03/07/2018
1070#	78201070.txt	24/06/2018 *
1204#	51551204.txt	17/07/2018
1228#	78421228.txt	02/07/2018
1538#	12821538.txt	01/07/2018
1700#	15621700.txt	29/06/2018 *
2046#	48652046.txt	08/07/2018
2554#	40752554.txt	25/07/2018
3636#	34203636.txt	25/06/2018 *
3887#	38533887.txt	23/07/2018
4035#	50844035.txt	01/05/2018
4662#	86514662.txt	15/07/2018
5168#	50005168.f1c	04/07/2018
6030#	52886030.txt	09/07/2018
6828#	48676828.txt	26/07/2018
7486#	62547486.txt	15/07/2018
7543#	13327543.txt	23/07/2018
7700#	36227700.f1g	18/07/2018

* these files were first transmitted in June 2018 and continued to be transmitted into July. Please see Numbers & Oddities # 249 for information regarding their initial transmission and a link to the June 2018 files.

F01, F06, F06a, M42, M42a, M42b & X06

Russian Government & Intelligence



M42 – various modes

kHz	Date	UTC	Day	Details	Mode
11083	04-07, 1438		Wed	Russian diplo/intel. i.p.	MFSK-66
11154	11-07, 0807		Wed	Russian diplo/intel.	3000Bd PSK-8/45Bd MFSK-66
15602	12-07, 0811		Thu	Russian diplo/intel. i.p.	MFSK-66
10509	23-07, 0845		Mon	Russian embassy Warsaw after X06	3000Bd PSK-8
16257	24-07, 0824		Tue	Russian diplo after X06	3000Bd PSK-8/MFSK-66
15820	24-07, 1003		Tue	Russian diplo after X06	MFSK-66
15602	26-07, 0800		Thu	Russian diplo/intel i.p.	MFSK-66
14442	26-07, 1109		Thu	Russian diplo/intel.	3000Bd PSK-8
14442	26-07, 1118		Thu	Russian diplo/intel.	MFSK-66
12177	27-07, 0821		Fri	Russian diplo/intel Moscow	MFSK-66

M42b – FSK 50/500

kHz	Date	UTC	Day	Details
8027	01-07, 1534		Sun	PMFD msg in FSK50/500, opchat in CW
6875	06-07, 0845		Fri	WYGL wkg QGGR msg in FSK50/500, opchat in CW
6865	06-07, 0848		Fri	WYGL wkg QGGR msg in FSK50/500, opchat in CW

F01 – FSK 200/500

14829/12214/10932 kHz, 04-07, 1840/1850/1900 UTC

Null message:)576 100000+++++++162

14421 kHz, 13-07, 0100 UTC. Poor signal. Mostly undecodable.

74276 37673 46194 91274 08647 88790 ... 82406 79378 24575

F06 – FSK 200/1000

Link 00052

15634/13596/11466 kHz, 11-07/12-07, 0800/0810/0820 UTC

11166 00052 19534 10030 02149
25250 86120 48866 22078 36977 44815 62404 40426 58359 36297
07392 97356 39154 38428 21722 16126 37182 62854 67439 58361
47788 53829 46239 37648 11435 20477 25955 83144 51682 07648
93066 06140 07956 79812 27020 82176 14479 09628 15125 61520
64354 01388 01918 16730 81603 72364 17396 41994 27985 73713
57957 82033 73633 68078 59857 79313 53354 75602 51046 75686

80803 64472 76820 81356 43959 48864 24569 24722 08109 72429
16311 21096 98105 31218 26941 84755 25102 89012 55087 63144
06408 37500 46404 48174 42229 17636 31058 59711 35176 48061
69149 78855 42553 62276 27536 60422 91648 68709 54355 40126
39807 93698 08454 55180 24665 19415 70658 17339 31887 07069
07334 95533 98544 17157 30258 82131 82353 66998 59672 65494
05585 49338 97595 75592 56216 25672 84720 98970 03392 43843
30903 75543 30138 56284 79437 50718 81644 80867 55754 21696
09196 64815 35691 59825 61001 09241 45547 85644 32718 07130
80375 53879 99938 05321 37163 11794 23646 32525 02137 13791
38763 24776 95121 31599 53592 95510 95685 19328 75033 46744
22856 05629 75435 58294 58040 48572 03309 66904 93526 82331
79145 26160 65955 84474 46644 33424 47893 42313 72675 16519
76582 93428 85964 72167 51616 22835 40516 85126 44742 47597
86493 55740 74446 67981 36048 88474 54426 34258 08986 64494
91952 75158 30212 00000

15634/13596/11466 kHz, 25-07/26-07, 0800/0810/0820 UTC

11166 00052 19534 10030 02149
25250 86120 48866 22078 36977 44815 62404 40426 58359 36297
07392 97356 39154 38428 21722 16126 37182 62854 67439 58361
47788 53829 46239 37648 11435 20477 25955 83144 51682 07648
93066 06140 07956 79812 27020 82176 14479 09628 15125 61520
64354 01388 01918 16730 81603 72364 17396 41994 27985 73713
57957 82033 73633 68078 59857 79313 53354 75602 51046 75686
80803 64472 76820 81356 43959 48864 24569 24722 08109 72429
16311 21096 98105 31218 26941 84755 25102 89012 55087 63144
06408 37500 46404 48174 42229 17636 31058 59711 35176 48061
69149 78855 42553 62276 27536 60422 91648 68709 54355 40126
39807 93698 08454 55180 24665 19415 70658 17339 31887 07069
07334 95533 98544 17157 30258 82131 82353 66998 59672 65494
05585 49338 97595 75592 56216 25672 84720 98970 03392 43843
30903 75543 30138 56284 79437 50718 81644 80867 55754 21696
09196 64815 35691 59825 61001 09241 45547 85644 32718 07130
80375 53879 99938 05321 37163 11794 23646 32525 02137 13791
38763 24776 95121 31599 53592 95510 95685 19328 75033 46744
22856 05629 75435 58294 58040 48572 03309 66904 93526 82331
79145 26160 65955 84474 46644 33424 47893 42313 72675 16519
76582 93428 85964 72167 51616 22835 40516 85126 44742 47597
86493 55740 74446 67981 36048 88474 54426 34258 08986 64494
91952 75158 30212 00000

Link 10031

14948/12176/10177 kHz, 11-07, 0915/0925/0935 UTC

11166 10031 24680 11026 00049 00000 00000 00000 00000

14948/12176/10177 kHz, 25-07, 0915/0925/0935 UTC

11166 10031 13579 25001 00049 00000 00000 00000 00000

Link 10053

19466/16189/13576 kHz, 01-07, 1530/1540/1550 UTC

11166 10053 13579 01001 00049 00000 00000 00000 00000

11049/9126/8137 kHz, 02-07, 0400/0410/0420 UTC

11166 10053 13579 01001 00049 00000 00000 00000 00000

19535/16348/13588 kHz, 03-07, 1650/1700/1710 UTC

11166 10053 15987 03068 00049 00000 00000 00000 00000

19466/16189/13576 kHz, 08-07, 1530/1540/1550 UTC

11166 10053 13579 08064 00049 00000 00000 00000 00000

19535/16348/13588 kHz, 10-07, 1650/1700/1710 UTC

11166 10053 13579 10001 00049 00000 00000 00000 00000

19466/16189/13576 kHz, 15-07, 1530/1540/1550 UTC

11166 10053 12345 15064 00049 00000 00000 00000 00000

19535/16348/13588 kHz, 17-07, 1650/1700/1710 UTC

11166 10053 45891 17068 00049 00000 00000 00000 00000

19466/16189/13576 kHz, 22-07, 1530/1540/1550 UTC

11166 10053 13579 22001 00049 00000 00000 00000 00000

19535/16348/13588 kHz, 24-07, 1650/1700/1710 UTC

11166 10053 17935 24068 00049 00000 00000 00000 00000

19466/16189/13576 kHz, 29-07, 1530/1540/1550 UTC

10053 45698 29064 00049 00000 00000 00000 00000 00000

Link 40122

17419/15707/13446 kHz, 11-07/12-07, 0600/0610/0620 UTC. Two messages

24681 07083 02329

11166 40122 43682 07082 03049

05339 73673 75212 84123 69168 93805 24064 85629 44479 16998

11773 75794 17743 17276 91846 14018 20295 98072 90215 48778

63658 37585 75764 89023 90195 10785 14156 92049 06283 24038

84646 66326 90186 23246 64581 12706 91841 61473 11242 52439

66704 36973 95755 15456 10879 37569 68739 87328 89700 52317

62363 38367 76964 36393 58540 83282 46982 40141 77905 44853

86661 38214 69286 20028 19794 19756 04354 71916 60731 25551

07130 96092 39653 43091 73046 34645 66596 95479 57254 36431

26441 85131 36836 86948 22052 78187 76654 56284 07734 40595

53487 38555 80226 61780 18156 81300 19390 26861 00329 28250

95794 23331 85687 23903 87386 93150 20147 53370 72432 66191

20808 15903 90905 35958 98339 55546 91534 63541 20476 97371

06668 20727 71309 62695 22171 08199 86076 61755 34522 09784

66115 87258 12303 68667 03692 57243 04278 96515 71370 80700

61236 51448 55628 44383 63793 45799 39390 44245 73339 69590

63185 09950 48312 40681 19591 95873 93000 17497 60681 37062

31045 35310 23138 93559 20840 51979 00730 31551 55011 14111

18844 14768 11170 79560 90755 04575 46119 57221 60319 92193

50707 50034 60776 11488 07508 12165 44366 05754 18532 56265

62419 46956 95129 71785 00633 30832 27301 40245 99200 96326

74583 58424 12507 42768 45707 05398 88043 43244 59207 14353

69266 77601 02189 35134 52055 33516 29410 98445 49479 49063

69896 17655 44549 95231 33256 89120 35647 21818 32895 77008

04317 15131 68306 93506 60109 40958 33634 10393 42157 71217

44697 62884 82187 17742 01651 31712 58640 21628 29484 14357

96586 71588 63536 21380 93140 49750 72221 58787 73042 28322

34144 82373 04105 65589 11801 34970 27216 74657 89050 02542

80574 63385 64538 50069 22850 68949 18269 23156 84963 35479

93508 26292 05162 08183 61207 13717 27081 42431 59130 53820

65491 51209 22880 53008 69399 39388 51003 49990 37203 98248

71368 16403 82302 00000

11166 40122 24681 07083 02329
18269 48787 77575 52207 52484 82757 69977 67506 98064 69258
61403 48816 73480 30410 86248 62143 53852 42277 02161 57305
71260 55176 85310 13096 84294 60177 56642 37227 21529 25225
56247 06998 28611 49335 08088 61621 73651 08291 42227 82149
90602 90280 66771 19936 65308 44916 06711 59569 93925 94068
51833 27214 68389 77948 80915 80304 68616 34895 54368 39519
66141 38275 92524 48981 68859 38964 81763 75616 61570 86819
75648 83610 22015 29604 83279 44901 17086 12782 62034 71642
08895 28636 56892 81581 25403 88134 53530 32274 75278 13993
37374 85103 11689 78360 75792 84999 74694 33580 65629 66836
66960 09446 13248 24416 42438 75401 39286 02996 12735 91123
25306 01281 00846 93918 44525 93830 96927 96366 43818 09814
95822 92672 69172 29046 20999 97128 51790 81252 64611 63152
97027 59487 98354 56332 43342 83656 34816 79905 83457 75068
43993 76120 64919 27963 54679 51913 12228 88950 95403 02341
37752 80292 54601 30201 33589 27975 64716 85289 61571 80499
39915 71710 83612 29339 22100 96706 99562 66982 14911 59414
84778 43527 10408 03015 44583 07733 38108 78683 27811 43491
91081 94811 66619 37644 08780 49905 34762 40082 21294 72616
41499 02067 84724 17349 03350 03723 62351 88855 60852 06609
31293 94285 32542 92344 19340 46109 23320 73193 01657 64353
29397 85566 12025 51602 07020 02365 48336 39174 97142 25119
76999 27946 23252 41839 65971 72222 04518 61531 01081 80131
83230 00000

17419/15707/13446 kHz, 18-07, 0600/0610/0620 UTC

11166 40122 82496 18094 00049 00000 00000 00000 00000

17419/15707/13446 kHz, 25-07/26-07, 0600/0610/0620 UTC

11166 40122 58791 21084 03869
69923 23808 83688 99289 02731 94404 86575 48690 51812 86427
60923 97338 08416 80310 04863 90750 49419 81897 29924 73072
03046 44781 41447 32898 96709 03280 72221 15199 35431 58241
80279 54064 84246 82878 46793 05914 53070 40801 35004 87900
07431 33447 96120 51172 53518 19097 33138 43675 70997 70652
58491 42214 92000 64376 06503 58419 49756 16780 86551 48339
45281 11833 87900 80328 05582 85701 72119 40927 31784 61191
14047 83410 60659 49082 77228 48711 87952 58547 34750 13382
26974 83842 71440 44305 00875 59449 28339 64819 92055 00868
75399 61972 97143 73235 23345 89556 60967 54971 10630 46652
87979 88620 26428 36331 54551 36104 55599 34232 70593 80534
56562 21685 63919 41817 08019 63072 85808 98199 85460 32115
61195 30969 53399 16778 31923 34477 84256 57466 66505 58691
39853 98221 34828 76445 76431 55584 71224 92595 59152 34821
74378 37242 96999 48210 17466 10237 34034 15057 67005 69141
57932 48135 33822 77824 11750 56250 04587 57899 19841 17592
27359 10180 63877 03585 49563 98335 69904 57906 31858 11953
92367 60378 86305 51168 06050 30398 12308 00077 41856 49612
28729 81099 27383 08523 25647 07486 18214 06696 84167 76156
30868 61278 37754 68068 13355 03499 73482 48272 14256 67847
96692 82884 36286 03617 07438 15123 85262 63497 62203 67624
50418 48903 19309 63213 77003 16732 91442 81317 17114 77233
53757 92215 69669 37683 80978 36298 45500 71535 11945 40550
18458 17766 65033 89411 48514 40061 52899 92228 87751 00575
69970 14477 05216 27908 51133 64932 91547 84028 25044 55998
29337 59793 10513 79353 40140 53776 29385 64126 44089 14081
34370 09777 93046 47836 75246 10868 63218 28049 51877 15922
18191 52504 27494 87546 78307 34417 00656 56021 57330 29494
59350 83516 52331 29120 65651 81162 97733 74340 44386 46119

19463 70330 74244 10871 50118 06045 04761 21899 91129 08729
47621 89947 32820 87976 15717 79058 68313 49034 08392 26554
62230 80020 66321 11175 60107 42770 44454 11546 49472 21971
76458 22159 08523 12293 29112 19065 03333 48189 70068 92462
19540 06065 97443 88368 39438 33493 04648 26548 00417 85173
78918 86919 95688 70310 56980 81588 03240 41111 86264 54721
53936 77076 65139 77436 74731 44792 60582 29902 67911 37881
26725 87831 12304 26831 72718 55555 97407 73367 53355 12865
26363 89064 80876 67818 48709 42883 81412 32683 08865 47324
44487 65215 21269 77876 84384 00000

Link 40133

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

11166 40133 13579 07001 00049 00000 00000 00000 00000

17436/15789/13473 kHz, 14-07, 2100/2110/2120 UTC

11166 40133 15397 14038 00049 00000 00000 00000 00000

17436/15789/13473 kHz, 21-07, 2100/2110/2120 UTC

11166 09160 40133 21093 00049 00000 00000 00000 00000

17436/15789/13473 kHz, 28-07, 2100/2110/2120 UTC

11166 40133 13579 28001 00049 00000 00000 00000 00000

Link 50046

13366/11438 kHz, 01-07, 1100/1200 UTC. E06 instead of F06

13363/11404/9299 kHz, 07-07/08-07, 1100/1110/1120 UTC

11166 50046 65493 06045 00729

14347 01154 14224 34085 51719 94374 67689 54737 90813 90342
62317 67760 19871 79803 34003 11040 86492 00476 79842 51804
09527 81660 52908 42983 18867 54586 78892 03401 71048 51523
27654 38282 81576 00944 24704 02112 30628 90132 12460 48754
30398 46762 46575 66729 46167 11345 38811 46774 37094 36020
15051 88598 26787 16904 52834 37801 66353 98516 75720 78679
77419 12969 50569 32121 62659 97766 95076 59486 48324 88103
45070 00000 00000

13363/11404/9299 kHz, 14-07/15-07, 1100/1110/1120 UTC

11166 50046 83514 13046 01369

28986 51161 14224 34085 65358 44381 67689 54737 04452 40359
62317 67760 53437 93927 52464 38665 33910 40950 09851 68193
71841 80573 76972 64166 90761 68807 49900 49490 65672 41458
89548 59500 67288 87086 53841 85526 58955 06256 57657 70508
26138 50139 58450 38188 22805 05620 81297 62463 71013 45366
28172 58332 92171 79269 62285 12760 60300 88431 25343 20874
15494 05812 88175 41093 36593 56683 83068 37483 67635 62479
65192 94343 95628 53108 77898 40054 64335 27197 14868 17647
29934 75400 34612 91881 98984 61123 84339 83515 60878 19169
16194 83091 59871 59042 72752 24582 24341 98822 82193 29559
63168 80356 39090 70277 70276 31344 10026 07804 98420 28001
99673 97803 05695 08764 24463 45186 66543 68624 87346 60016
67064 71721 52841 03632 20165 86013 95699 74211 15023 11561
79879 55857 82645 93315 46134 00000

13363/11404/9299 kHz, 21-07/22-07, 1100/1110/1120 UTC

11166 50046 97538 19047 00449
39317 11167 14223 34085 76789 04387 67688 54737 15883 00355
62316 67760 46939 80251 25948 63484 47777 35343 41035 17731
07695 05551 84882 53496 21309 75105 89061 72609 39205 96575
44923 78714 99000 58489 31017 53616 02018 71451 02261 13230
41884 75599 47042 00000

13363/11404/9299 kHz, 28-07/29-07, 1100/1110/1120 UTC

11166 50046 36987 27048 02209
14376 51175 14224 34085 51748 44395 67689 54737 90842 40363
62317 67760 06381 59724 53797 34660 91062 96257 43902 19208
14235 20166 75396 34402 13930 83060 38400 46265 28130 03927
64144 52624 59409 88192 27855 82378 44532 91022 97931 22623
18410 66767 89787 40422 98778 53892 94579 44629 03276 72866
64039 82714 79894 67104 54476 16635 27240 14808 97150 84944
58547 96201 19056 43949 33265 27930 50222 19349 80609 52326
13479 02185 92500 16645 94483 76285 52490 47511 01204 64169
57173 12326 50123 34566 14157 74306 40752 05776 95864 95675
82845 07515 17261 73829 48662 65852 27656 27614 58681 30608
58207 60377 24005 00836 20000 39001 31198 75054 33568 60386
70569 81572 02814 82579 96643 48817 87323 36777 12266 03013
06957 46160 54397 82721 01355 58146 30951 65843 40151 16745
81696 73028 63263 84598 27312 99458 83697 43346 69246 86353
48167 83349 89722 21649 11355 74381 25177 15598 07350 65242
92762 79909 86210 92921 44068 63962 46688 19647 91916 96093
21313 96141 78464 88566 11585 01317 21042 84435 48995 55029
76121 17444 44524 76151 95508 12987 36204 01384 17985 15814
62879 07306 76713 66077 20018 98646 02666 03536 30859 00704
78922 02706 25172 75898 82347 60881 94511 60952 58360 79473
97485 25249 70072 66109 30139 25473 50291 72240 81349 65620
94903 59358 60478 59274 06088 14175 60620 97654 48218 00000

Link 60070

11438/9446/7939 kHz, 24-07, 0030/0040/0050 UTC

11166 60070 35698 24074 00049 00000 00000 00000 00000

11438/9446/7939 kHz, 31-07, 0030/0040/0050 UTC

11166 60070 56248 31001 00049 00000 00000 00000 00000

Link 60146

16321 kHz, 13-07, 0200 UTC

11166 60146 00000 13125 02459
41210 02270 70236 48755 86361 82386 42134 62375 12902 46247
12077 39396 05141 96145 70217 99012 76216 58582 28133 69498
94428 84697 64742 36542 18657 96113 99276 26830 10052 12132
70978 25331 12177 19202 30240 49700 16802 68624 70845 30256
57522 13409 58014 68955 98399 20231 31939 75816 09814 17427
91492 06217 48702 64951 87802 47506 85385 57260 82374 28378
44164 95026 49453 49428 49869 86653 27312 58345 97553 65499
48151 18163 87529 33771 01306 42025 92906 69012 09428 92882
51853 54127 22358 71574 01742 16872 58353 41723 97381 89765
47368 64886 80519 26343 56067 44398 92798 34690 99279 01336
49356 14210 67546 31065 15264 06542 25485 13770 51979 96580
60630 77445 26004 24531 87464 36752 96900 92484 49901 74445
04997 91949 39917 86443 85882 61325 17053 37879 92233 81824
88718 96284 16842 47835 85763 06208 02762 49860 48613 60119
90730 18301 93643 38419 76174 81203 69306 05306 26491 68302

81839 38480 74499 87005 93582 87922 63256 34147 46206 41220
38648 44639 45396 98192 52436 56372 42800 28783 09668 82976
52264 07465 93639 84302 41680 09641 99815 16731 28971 64764
34393 46673 33023 39175 00428 35864 04600 48888 07681 52317
81553 89803 58629 35048 04858 59086 28294 58913 28281 80693
91825 10198 76727 77289 28991 76792 50556 46020 48026 85065
75422 50903 56475 39816 62431 65792 32980 98886 89661 49169
16178 05310 72343 26241 72112 44105 21251 65079 59862 22061
83099 57775 29280 54148 17984 56864 24000 00000

Link 70004

16089/14384/12173 kHz, 14-07/15-07, 0900/0910/0920 UTC

11166 70004 37592 13009 00559
06557 18648 09056 59081 86701 32716 61234 29059 80366 18740
84492 16706 16414 93623 55742 21459 64065 93148 73486 68819
56969 51811 23203 58833 54958 86199 64039 25716 86399 11661
32103 09573 67543 35895 04963 84345 48674 10662 74547 46444
76749 77607 88359 19990 62131 31087 89005 84748 61265 81344
74469 27412 12281 09053 00000

16089/14384/12173 kHz, 28-07/29-07, 0900/0910/0920 UTC

11166 70004 37592 13009 00559
06557 18648 09056 59081 86701 32716 61234 29059 80366 18740
84492 16706 16414 93623 55742 21459 64065 93148 73486 68819
56969 51811 23203 58833 54958 86199 64039 25716 86399 11661
32103 09573 67543 35895 04963 84345 48674 10662 74547 46444
76749 77607 88359 19990 62131 31087 89005 84748 61265 81344
74469 27412 12281 09053 00000

Link 70048

13994/12058/10174 kHz, 04-07, 0800/0810/0820 UTC

11166 70048 48713 04043 00049 00000 00000 00000 00000

13994/12058/10174 kHz, 11-07, 0800/0810/0820 UTC

70048 48713 11056 00049 00000 00000 00000 00000

13994/12058/10174 kHz, 18-07, 0800/0810/0820 UTC

11166 70048 98451 18049 00049 00000 00000 00000 00000

13994/12058/10174 kHz, 25-07, 0800/0810/0820 UTC

11166 70048 59214 25036 00049 00000 00000 00000 00000

Link 70059

11049/9126/8137 kHz, 16-07, 0400/0410/0420 UTC

11166 70059 17935 16020 00049 00000 00000 00000 00000

Link 70147

11646/9479/7609 kHz, 14-07/15-07, 0800/0810/0820 UTC

11166 70147 91735 13085 00809
40894 73199 99688 58128 26460 53976 82480 94306 32254 47307
87744 84902 85744 73046 74205 93243 59527 53237 09696 43524
33955 83558 96066 78354 28342 00586 18618 22486 97982 48550
02015 69687 44771 53042 43561 46112 25302 75066 26904 25158
43229 31089 09053 75326 87779 21969 25162 15134 50869 92759
17428 44623 62906 02936 25774 68159 36090 89285 55053 71952
06140 98061 77565 89198 09926 66088 36744 41659 91376 47418
05024 61279 71629 58844 49348 49551 49483 74437 85078 00000

11646/9479/7609 kHz, 28-07/29-07, 0800/0810/0820 UTC

11166 70147 98751 27086 03609
80714 83103 99688 58128 66380 63980 82480 94306 72174 57311
87744 84902 90778 50868 14263 49824 67277 26699 38641 85353
36059 84332 54269 22417 37641 11505 13255 35108 86475 53065
26150 33596 97468 55289 22175 92860 77675 62280 89333 63504
78647 87936 56561 92072 33147 37475 52844 40806 94217 00364
21672 17144 50823 29751 80874 09223 25381 36290 27971 39123
05760 45768 01441 11101 08018 98943 49367 28514 51996 30403
56538 97635 44295 54725 24118 92406 81780 87306 83400 80198
58672 07641 22779 15836 07383 87212 54587 12038 49182 04581
32117 31332 38572 25989 54365 86167 95714 70765 12893 86690
49327 65025 72042 59552 85188 95137 92692 74632 71123 38783
22162 66506 22043 26081 85779 76013 42008 15381 40630 57537
77131 96139 41237 74168 46603 51888 18965 02683 78778 08852
50915 27126 19190 07143 12100 40845 94037 74009 86743 48600
12997 38626 25856 65622 00773 08302 54695 13896 05806 66259
09763 56572 02936 12614 55876 33945 83236 63600 66016 62578
06935 83552 91133 47532 25736 30252 18830 53208 06604 99719
46571 78649 07714 01435 25314 66800 01025 74666 37421 94713
29589 89425 70389 60578 40456 78216 01725 22822 23423 43288
41890 29527 49425 81384 80516 83168 27140 84649 16274 53536
49409 28780 40657 05792 54597 79960 62547 65577 19825 06998
45937 32547 93213 29531 17999 22978 38845 09225 71268 26885
73514 65084 88928 96296 23490 19502 66315 24748 00506 06752
13681 29404 71646 28837 26123 77052 20775 86683 08862 71233
47108 89504 70724 18527 63535 52770 83400 26703 82272 41209
08313 41461 77716 44965 34572 99957 22631 74228 47839 09632
00588 62972 22686 66466 21739 62362 81937 92799 71742 78715
51036 77297 47242 11926 99707 69312 25830 10962 74951 18005
98019 11020 15866 05663 36765 95630 71930 48513 65261 10743
87152 44123 33658 81499 90848 66233 11477 24387 87733 72772
58941 73701 85100 46921 62315 89716 91090 87037 19934 23353
13770 39891 68974 68443 96734 35435 93937 60600 65315 50885
74875 71161 21833 06974 44720 75811 03789 03190 90312 13630
21837 59774 69478 14130 51656 42067 49222 38495 64784 98848
11922 39042 12047 40605 47210 92130 17970 86777 30252 87491
19280 47291 74179 09223 15288 28626 10885 41763 86358 00000

Link 80214

13184/11643/9925 kHz, 05-07, 1330/1340/1350 UTC

11166 80214 15842 05062 00049 00000 00000 00000 00000

13184/11643/9925 kHz, 12-07, 1330/1340/1350 UTC

80214 12345 12063 00049 00000 00000 00000 00000 00000

13184/11643/9925 kHz, 19-07, 1330/1340/1350 UTC

11166 80214 56897 19095 00049 00000 00000 00000 00000

13184/11643/9925 kHz, 26-07, 1330/1340/1350 UTC

11166 80214 45129 26016 00049 00000 00000 00000 00000

Danix was able to link a X06 to a transmission of the Russian embassy in Paris. Here is the log:
12199 kHz, 16-07, 1541 UTC. Sequence: 532614.

Danix writes: Around that time, the Russian embassy in Paris was sending a lot of 3000Bd PSK-8 bursts at least on 11438, 10179, 10695, and possibly 10270 as well (not simultaneously). Moscow started responding at 1552 UTC on 12199, while Paris was on 11438. Sadly no MFSK-66 link was established.

Code	Freq	Date	UTC	Day	Sequence
X06	14615	3-7	0759	Tue	Sequence: 125643
X06	12157	3-7	0800	Tue	Sequence: 165423
X06	13524	3-7	0809	Tue	Sequence: 125643
X06	13401	3-7	0839	Tue	Sequence: 154263
X06	16487	3-7	0851	Tue	Sequence: 154263 (very short and out of band, operator error?)
X06	17517	5-7	0724	Thu	Sequence: 314265
X06	10372	5-7	0946	Thu	Sequence: 431625
X06	14538	8-7	2006	Sun	Sequence: 116611 before XPA2
X06	14538	8-7	2010	Sun	Sequence: 111666 before XPA2
X06	14655	11-7	0747	Wed	Sequence: 164253
X06	11153	11-7	0807	Wed	Sequence: 465132
X06	14442	12-7	1055	Thu	Sequence: 564213
X06	15828	13-7	0955	Fri	Sequence: 256134
X06	14863	13-7	0957	Fri	Sequence: 615243
X06	14825	16-7	0732	Mon	Sequence: 641523
X06	12152	16-7	0743	Mon	Sequence: 432516
X06	12199	16-7	1541	Mon	Sequence: 532614
X06	12149	17-7	0836	Tue	Sequence: 154263
X06	11462	17-7	0851	Tue	Sequence: 165423
X06	17454	17-7	1142	Tue	Sequence: 325614
X06	15866	19-7	0716	Thu	Sequence: 436512
X06	15710	22-7	1125	Sun	Sequence: 261453
X06	11537	23-7	0801	Mon	Sequence: 421635
X06	11525	23-7	0819	Mon	Sequence: 156234
X06	16257	24-7	0814	Tue	Sequence: 542136
X06	13510	24-7	0959	Tue	Sequence: 612534
X06	17444	25-7	0721	Wed	Sequence: 435621
X06	15651	25-7	0727	Wed	Sequence: 435621
X06	10814	25-7	0737	Wed	Sequence: 412356
X06	13369	25-7	0748	Wed	Sequence: 412356
X06	11153	25-7	0757	Wed	Sequence: 465132
X06	14655	25-7	0801	Wed	Sequence: 164253
X06	18245	25-7	0850	Wed	Sequence: 134265
X06	16116	25-7	0903	Wed	Sequence: 134265
X06	18660	25-7	1035	Wed	Sequence: 621543
X06	18660	25-7	1051	Wed	Russian diplo/intel after X06
X06	13854	26-7	0759	Thu	Sequence: 521634
X06	13506	26-7	0943	Thu	Sequence: 164532
X06	14442	26-7	1059	Thu	Sequence: 564213
X06	14812	26-7	1413	Thu	Sequence: 263145
X06	10653	27-7	0833	Fri	Sequence: 356412
X06	12213	27-7	1007	Fri	Sequence: 615243
X06b	13884	21-7	2002	Sat	Sequence: 111666 before XPA2
X06b	15967	21-7	2003	Sat	Sequence: 111666 before XPA2
X06b	13884	21-7	2005	Sat	Sequence: 111666 before XPA2
X06b	15967	21-7	2006	Sat	Sequence: 111666 before XPA2

Code	Freq	Date	UTC	Day	Sequence
X06b	16263	23-7	1801	Mon	Sequence: 111666 before E07
X06b	14763	23-7	1802	Mon	Sequence: 111666 before E07
X06b	14763	23-7	1806	Mon	Sequence: 111666 before E07
X06b	16263	23-7	1808	Mon	Sequence: 111666 before E07
X06b	16263	23-7	1819	Mon	Sequence: 111666 before E07
X06b	14763	23-7	1820	Mon	Sequence: 111666 before E07
X06b	13884	28-7	1920	Sat	Sequence: 111666 before XPA2
X06b	15967	28-7	1922	Sat	Sequence: 111666 before XPA2
X06b	13884	28-7	1926	Sat	Sequence: 111666 before XPA2
X06b	15967	28-7	1926	Sat	Sequence: 111666 before XPA2
X06b	13538	29-7	2007	Sun	Sequence: 111666 before XPA2
X06b	14538	29-7	2008	Sun	Sequence: 111666 before XPA2
X06b	13538	29-7	2012	Sun	Sequence: 111666 before XPA2
X06b	14538	29-7	2013	Sun	Sequence: 111666 before XPA2

XPA

11409/13509/14609 kHz, 02-07/04-07, 0600/0620/0640 UTC

456 456 456 1 456 456 456 1 456 456 456 1
06373 00119 28125 66875 54527 66330 19177 76108 63509 90615
22610 65366 87836 66940 92175 72447 87095 46113 35290 60289
91289 76076 51541 05748 06627 91980 14229 39555 82315 89700
33592 09886 40128 24059 92964 61511 12678 93040 20893 04076
79289 94133 01901 55168 32041 34096 80913 49566 97923 74948
83452 37429 23053 18863 46438 01527 39088 03049 54914 47153
44921 68854 72591 10834 49143 79681 25023 05941 28814 38197
86815 91237 58039 15883 21198 48326 23471 31420 58710 55434
87758 62026 62554 93985 85330 28817 70664 68483 34370 06540
13095 17988 45387 76900 87097 20136 67406 60436 40907 76969
23441 58574 93940 09075 92790 02694 87990 11026 04537 96209
99025 88166 28599 37347 62366 47775 00013 06450 60326 87463
71342 76416

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

456 456 456 000
01585 00001 00000 36261

11409/13509/14609 kHz, 11-07, 0600/0620/0640 UTC

456 456 456 000
01451 00001 00000 33656

11409/13509/14609 kHz, 16-07/18-07, 0600/0620/0640 UTC

456 456 456 1 456 456 456 1 456 456 456 1
00145 00091 46508 01536 94315 63268 46816 35655 21516 04025
21953 93225 36898 56952 57811 57319 26703 29020 44428 69728
42991 50541 15782 80353 04439 91911 61417 27526 83717 42129
42557 38862 65297 33439 07952 08067 69219 33510 65026 05850
19009 08829 37105 81125 29009 45484 28300 03167 42090 83190
93216 66911 66301 07455 09084 66369 91493 66251 93561 29777
24975 79404 19172 78689 87587 26986 37023 16090 37219 83931
12715 01400 68938 80342 82169 80926 59526 52539 86391 65784
41024 46990 50057 68704 56849 35933 30772 41587 64843 27302
92813 80295 95657 75236

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

456 456 456 000

07700 00001 00000 34657

11409/13509/14609 kHz, 25-07, 0600/0620/0640 UTC

456 456 456 000

05228 00001 00000 36257

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

456 456 456 000

09083 00001 00000 32671

XPA2

14538/13538/12138 kHz, 01-07/03-07, 2100/2120/2140 UTC

00408 00063 43843 80659 24797 97442 17976 62037 54595 25919

20542 68101 16408 76535 89815 90546 58847 83260 78382 39156

48705 90540 65891 76446 44322 51679 28104 15287 18148 30983

85604 18774 69124 31644 48363 10373 33802 08338 99677 75295

14456 76193 68252 22524 87363 41319 39892 31329 09064 08254

50595 71253 07085 70353 40663 48599 87852 07697 09301 77614

29841 38165 51222 71882 38691 65623

11167/12167/13567 kHz, 04-07, 0700/0720/0740 UTC

01076 00001 00000 34260

13445/12145/11545 kHz, 05-07/07-07, 0910/0930/0950 UTC

05895 00079 41329 37725 27981 89680 49041 18543 24140 25483

45928 42330 95537 28368 98488 86595 28863 45222 05883 92376

22055 84912 07680 48860 70270 07073 99704 93212 48099 82778

97288 18899 03474 61128 20650 48191 33181 73136 57418 77157

02197 99440 53629 96249 87252 07572 94836 90917 78139 19152

88172 26662 26123 22840 81184 52334 43728 13101 31852 03828

87677 69163 97572 54279 11107 83508 69935 37054 59010 59301

91217 44576 22795 84142 30614 15697 02365 13564 50104 55808

90749 57176

15967/13884/12217 kHz, 06-07/07-07, 2100/2120/2140 UTC

00569 00091 18826 49953 86321 31790 84151 01027 35580 08371

50980 46166 78725 93658 62281 78723 27373 57682 09452 13863

76692 62694 77270 47945 06933 26851 30061 02010 46947 53008

55713 41143 71509 00992 17314 41567 28759 90032 45153 31618

36744 67843 79097 32783 48012 79448 25833 14036 16113 33951

54619 72598 03527 32320 43192 17413 42415 90377 51364 04371

43579 66181 25425 79693 22932 39584 21965 23480 34154 83398

66307 55175 16185 23670 22806 60435 38479 93464 10702 18679

28214 13454 13177 84398 50572 60156 35756 74055 19876 51761

27598 23719 24389 43645

14538/13538/12138 kHz, 08-07, 2100/2120/2140 UTC

01109 00001 00000 36252

11167/12167/13567 kHz, 09-07/11-07, 0700/0720/0740 UTC

06401 00167 38995 61739 43762 49870 49332 24789 96910 84156
52510 95648 62120 13339 28891 65321 63973 59371 50884 69511
88932 75073 42248 64731 08406 17272 96999 15625 79426 76156
08572 16687 33258 23199 28371 79650 91229 02912 03184 88407
97430 74268 00326 91471 46525 44081 44791 80677 91769 92912
17495 11993 76037 53725 53199 46846 92631 06575 89303 23646
01209 47246 06253 98407 31459 86123 60649 65976 49403 44449
86881 47923 07770 02627 70520 50103 32534 22755 17411 75355
96547 25585 51462 05180 42639 84280 56043 41458 14050 86317
54325 55307 43707 33398 36492 58309 09294 03799 97846 23275
11329 75955 83594 83835 45447 48559 73082 74387 76921 14160
83884 65848 54136 98228 35465 03924 61314 28154 42628 18091
42560 68332 15971 01528 20408 36169 33027 85125 22788 31808
36575 31235 82709 73217 11227 56724 94019 38556 52673 82709
49678 57597 78413 86677 84238 59059 59949 14123 82812 91506
10533 20887 01857 63740 35442 31203 31039 48219 06437 41800
99225 32037 64860 71459 50276 09856 54645 58564 50243 11347

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

03084 00001 00000 33263

13445/12145/11545 kHz, 12-07, 0910/0930/0950 UTC

06572 00001 00000 34665

13445/12145/11545 kHz, 14-07, 0910/0930/0950 UTC

08760 00001 00000 35266

15967/13884/12217 kHz, 14-07, 2100/2120/2140 UTC

05638 00001 0000 40260

14538/13538/12138 kHz, 15-07/17-07, 2100/2120/2140 UTC

00288 00101 58645 98981 63688 99661 30190 14280 11139 67429
81720 09674 88412 36240 48830 62065 09346 82210 00673 60720
97483 64041 06509 74646 31785 06024 46013 18311 67576 60185
97845 67108 98567 04364 36808 94210 91594 82076 13565 30678
00962 58188 20366 11057 20808 66293 27044 57546 11408 94923
62901 46682 95740 55063 39472 73099 12462 51552 81886 64478
70871 46537 92269 76333 74244 39275 82736 48070 76070 61278
68728 99758 43591 00972 09737 45503 42183 74389 42200 72334
75624 44501 90941 60384 16717 42335 28478 16206 25466 37125
74926 75342 92956 01988 54635 91162 65086 29094 46173 02824
70322 17925 84570 42225

11167/12167/13567 kHz, 16-07, 0700/0720/0740 UTC

03072 00001 00000 32262

11167/12167/13567 kHz, 18-07, 0700/0720/0740 UTC

07869 00001 00000 41665

13445/12145/11545 kHz, 19-07/21-07, 0910/0930/0950 UTC

07192 00085 70573 87524 84405 57025 41805 66367 34872 89453
84348 08344 61656 89784 66285 16068 33917 65809 57782 83920
57743 19903 89828 48121 16211 96081 54278 92968 19880 35652
81093 74093 90442 13866 68250 70472 57408 26445 49354 92754
64399 08552 42305 23958 96641 96352 54721 09303 13835 25655
28235 62013 19125 59129 28291 39748 90823 13427 68457 00842
42170 62155 45234 06374 54915 80915 30329 51840 87649 22141
91550 84295 93450 57840 56949 84712 16222 80263 05095 20211
91811 64200 87973 96284 77281 88881 55645 71626

15967/13884/12217 kHz, 20-07/21-07, 2100/2120/2140 UTC

09608 00127 52704 91591 81087 56307 51731 27174 33660 10430
59510 07727 40821 00180 04003 13683 52629 71383 16317 85640
44740 77948 22099 54928 09034 54646 43612 45425 81447 89455
30018 41757 37921 66820 84144 38528 29841 11620 93411 65421
36832 64845 87961 29023 61135 73872 30597 57919 56163 02568
51912 06930 92138 09206 39451 92330 86766 22570 81817 13435
79815 90092 75074 35749 95396 51119 59424 09718 45083 69664
65037 18714 39776 34600 09916 68862 16838 66266 28441 09642
88533 70105 18709 08006 85646 60471 52134 68389 89169 46176
63517 60302 99539 74262 08920 53415 80409 44602 36356 55288
78663 25718 70764 68592 39950 34695 45104 03666 16113 91880
52421 00353 16739 88135 79726 46587 27540 01563 86809 17693
58359 93482 54215 56538 80956 86382 47895 99780 24411 24404

14538/13538/12138 kHz, 22-07, 2100/2120/2140 UTC

03938 00001 00000 41656

11167/12167/13567 kHz, 23-07/25-07, 0700/0720/0740 UTC

05994 00145 02746 72512 88665 34127 23662 78806 67276 39402
91666 97001 16986 74714 42203 37150 10157 96901 98714 24941
02672 48256 87028 26295 30295 94824 03888 73443 40703 11011
90823 91436 24953 97336 35898 13786 05015 51578 69509 69439
87382 86101 49174 89761 29209 33329 34656 68028 80674 05946
92715 14191 89301 50311 19359 61727 04566 18216 21844 34637
98521 53943 63944 80174 84068 10841 87382 09565 44948 86977
32740 82400 28446 47034 29403 29182 49692 83312 98426 04967
68520 37229 20087 81591 47283 08830 76599 30026 89107 90514
45690 34888 32322 11245 32869 10058 80157 75379 63574 47394
24338 03137 38211 28814 02906 35330 56757 76483 93035 97343
40295 97572 30439 44555 67898 41460 79504 10337 00129 31262
42802 12078 12800 74310 66687 64477 16926 75387 56556 87770
17255 54475 87643 17798 33380 42231 77168 25515 72330 15209
11961 38905 24359 48368 28952 93506 21088 31153

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

06654 00001 00000 36263

13445/12145/11545 kHz, 26-07, 0910/0930/0950 UTC

04877 00001 00000 40663

15967/13884/12217 kHz, 27-07, 2100/2120/2140 UTC

01260 00001 00000 32257

13445/12145/11545 kHz, 28-07, 0910/0930/0950 UTC

02459 00001 00000 36557

15967/13884/12217 kHz, 28-07, 2100/2120/2140 UTC

01260 00001 00000 32257

14538/13538/12138 kHz, 29-07, 2100/2120/2140 UTC

07457 00079 66689 86344 30225 92641 21505 08610 51696 53995
15600 95200 53531 01159 91494 36307 84357 08224 53627 29511
79108 17000 49014 43809 78230 09285 64357 90229 32328 48064
38182 87464 62524 44111 51776 81185 54993 14636 96022 12905
71403 24221 78375 87712 16904 08284 06488 99580 60440 86434
56188 06011 20536 15778 78707 84434 42838 08588 70335 22521
92816 66826 22322 05153 24818 05449 88295 10800 76325 58264
36448 42047 54072 21658 47487 84074 78632 02477 82155 22797
59092 45464

11167/12167/13567 kHz, 30-07, 0700/0720/0740 UTC

01629 00001 00000 40653

F11

6280 kHz, 03-07/04-07, 1150/1155 UTC

0325 0325 0325 0325 0325
88888 88888 28444 70826 94778 24095 99642 34177 67305 44539
03153 65252 42941 42362 23313 52668 32114 59897 72951 76371
32332 43384 77086 31340 99240 88468 05701 17392 33131 57707
91735 01508 20552 97996 88888 88888
00036 00036

13424 kHz, 09-07/11-07, 0845/0850 UTC

88888 88888 16756 29986 74343 41027 37089 96177 75783 52719
73585 71152 37833 41409 72200 33311 02172 63465 05637 71740
24848 01991 82204 19480 64341 13420 32903 59856 89177 04808
64820 24514 02833 25482 23282 40799 18799 64153 23714 83707
56692 05681 88888 88888
00044 00044

13424 kHz, 30-07, 0845 UTC

0353 0353 0353 0353 0353
00000 00000 00000 00000 00000 00000 00000 00000 00000 00000

13424 kHz, 30-07, 0850 UTC

Not the repeat of the null message but a new message was sent:

0353 0353 0353 0353 0353
88888 88888 16756 29986 74343 41027 37089 96177 75783 52719
73585 71152 37833 41409 72200 33311 02172 63465 05637 71740
24848 01991 82204 19480 64341 13401 32903 59856 89177 04808
64820 24514 02833 25482 23282 40799 18799 63153 23714 83707
56692 05681 88888 88888
00044 00044

Q26 - Chinese military

9111 kHz, 24-07, 2312 UTC

JYJYJYJY QSA 3 HR EF MSG GA PSE CY 0064 16 18 0725 0700 3503---
0181 5482 8016 4942 8145 9566 9623 6587 7289 8296 0035
JYJYJYJY CY HW + QSL + NR 3624 ?
QSL+QSL+QSL+
JYJYJYJY CY GD QSL 0714 JYJYJYJYJYX AT NW FREQ

DIPLOMATIC STATIONS

North Korean diplomatic stations

12455 kHz, 05-07, 1212 UTC, DPRK-ARQ 600 LSB
14444 kHz, 05-07, 1212 UTC, DPRK-ARQ 600 LSB
17415 kHz, 25-07, 0556 UTC, DPRK-ARQ 600 LSB
16003 kHz, 31-07, 0700 UTC, DPRK-ARQ 600 LSB
17415 kHz, 31-07, 0734 UTC, DPRK-ARQ 600 LSB
17450 kHz, 31-07, 0734 UTC, DPRK-ARQ 600 LSB

Egyptian diplomatic stations

9067.7 kHz, 15-07, 0942 UTC, SITOR-A 100/170
MFA Cairo clg XBVX: Egyptian embassy Bucharest

UTILITY ROUND-UP

Japanese Military

2421 kHz, 26-07, 1000 UTC
PÛÛR wkg 11 outstations: PÛÂZ, PÇPÇ, PÂMP, PÂDÇ : PÛPÛ, PÛVZ, RÛSÛ, PÛÇP, RÛÂM, RÛDÂ, RÛÛÇ
Collective callsign: PÂÂR

2590 kHz, 26-07, 1030 UTC
ÂOÇZ wkg 20 outstations: ÂMÛÛ, ÂMÛÇ, ÂZÂM, Â..., ÂÛÇÂ, ÂÇPÇ, ÂDÇÛ ÂRÛM, ÂPÂR, ÂÛÇÛ, ÂMÇÇ, ÂÇKM, ÂZÇU, ÂÇÛD, ÂZÇR, ÂOÛR, ÂÂÂD, ÂSÛO, ÂÂÇD, ÂPÛZ
Collective callsign: ÂJÂS

Japanese Air Force

5775 kHz, 25-07, 0935 UTC
VVV JJT88 VVV VVV JJT88 AR

3195 kHz, 26-07, 0955 UTC
JJT88 wkg JJT20 JJT55 JJS21 JJV56 JJZ37 JJT44 JJU22

2671 kHz, 26-07, 1000 UTC
JJU22 wkg JJU33 JJZ44 JJU55 JJU66

2685 kHz, 26-07, 1000 UTC
JJT44 wkg JJT30 JJT88 JJW35 JJV89 JJV40 JJW46 JJS76 JJT99

3210 kHz, 26-07,1000 UTC
JJT88 wkg JJX25 JJX36 JJZ59 JJZ48 JJZ26

3195 kHz, 26-07,1010 UTC
JJT88 wkg JJT20 JJT55 JJS21 JJV56 JJZ37 JJT44 JJU22

3587.5 kHz, 26-07, 1010 UTC
JJT88 wkg JJS21 JJR20 JJT77 JJT22 JJT46

3852.5 kHz, 26-07, 1015 UTC

JJZ37 wkg JJZ82 JJX58 JJX47 JJZ71 JJZ50 JJZ93 JJZ60
CQ de JJZ37 QRK ? K

2356 kHz, 26-07, 1020 UTC

JJS21 wkg JJR75 JJS65 JJS54 JJR64 JJR31 JJR42 JJR53

3691 kHz, 26-07, 1020 UTC

JJT88 wkg JJT20 JJT55 JJS32 JJT33 JJV23 JJV90 JJT44

3650.5 kHz, 26-07, 1030 UTC

JJT88 wkg JJV34 JJV56 JJT66 JJV67 JJW24

4577.5 kHz, 26-07, 1144 UTC

JJC20 wkg JJA20 JJB20 JJC20 JJD20 JJE20

5131 kHz, 30-07, 2005 UTC

VVV JJT66 VA (Japanese Air Force, Tokyo)

5131 kHz, 30-07, 2006 UTC

VVV DE JJT88 (Japanese Air Force, Kumagaya)

You can find the id's of the mentioned stations on our website <http://udxf.nl/Japanese-military.pdf>

North Korean Military

Notes:

North Korean military stations are using 3-character callsigns and ABV for "repeat"

Logs submitted by F5JBR and JPL.

They stations were very active in July, probably related to a Chinese Navy exercise.

4780 kHz, 24-07, 1342 UTC

VVV (x2) XNI (x2) de MC3 (x2) QRU

VVV (x2) XNI (x2) de MC3 (x2) QRU

SK SK

3764 kHz, 24-07, 1838 UTC

VVV NIS de B3A QSA 5 QTC QTC NR 61 W5 =

03231 45361 00558 06020 39133 K (repeated 3x)

QRU K

3764 kHz, 24-07, 1843 UTC

VVV NIS de B3A QSA 5 QTC QTC NR 61 W5 =

03231 45361 00558 06020 39133 K (repeated 3x)

QRU K

5553 kHz, 25-07, 0500 UTC

VVV CQ (x3) de JWN (x2)

QTC NR 115 QTC NR 125 QTC 135 QTC NR 145 (transmitted several times)

5553 kHz, 25-07, 0503 UTC

QTC NR 115 QTC 02 17 =

05308 45544 60493 09484 90196 56679 61743 43410 92927 40711 78151 93027 77890 65703 55884 62674 88782 K

ABV QTC 02 17 =

05308 45544 60493 09484 90196 56679 61743 43410 92927 40711 78151 93027 77890 65703 55884 62674 88782 K

5553 kHz, 25-07, 0507 UTC

QTC NR 125 QTC 02 11 = =

55001 40000 08698 38573 86560 64550 46453 43568 15916 26693 63280 K

ABV QTC 02 11 = =

55001 40000 08698 38573 86560 64550 46453 43568 15916 26693 63280 K

5553 kHz, 25-07, 0511 UTC

QTC NR 135 QTC 02 19 = =

40541 47572 37188 52754 41316 58937 98588 71677 40622 42823 01713

70854 85326 04461 54600 03601 60208 79263 06378 =

ABV QTC 02 19 = =

40541 47572 37188 52754 41316 58937 98588 71677 40622 42823 01713

70854 85326 04461 54600 03601 60208 79263 06378 K

5553 kHz, 25-07, 0514 UTC

QTC NR 145 QTC 02 21 = =

01003 88434 53243 ... = K

ABV Message repeated K

QRU SK SK

4763 kHz, 25-07, 1316 UTC

QTC 08 12 = 20812 21725 75944 22275 38789 38336 51760 26072 41377

61412 92345 98932 K

QRU QRU SK

4763 kHz, 25-07, 1335 UTC

VVV VVV VFH de 2PK

QTC VVV VVV VFH de 2PK

QTC = 01 15 =

22225 16015 70086 73580 43465 25478 86733 81512 02231 80023 21476 03107 83841 63846 21351 K

ABV VV QTC 01 15 =

22225 16015 70086 73580 43465 25478 86733 81512 02231 80023 21476 03107 83841 63846 21351 K

QRU K VVV VVV VFH de 2PK

QTC VVV VFH de 2PK QTC = 01 15 =

22225 16015 70086 73580 43465 25478 86733 81512 02231 80023 21476 03107 83841 63846 21351 K

ABV VV QTC 01 15 =

22225 16015 70086 73580 43465 25478 86733 81512 02231 80023 21476 03107 83841 63846 21351 K

QRU SK

3706.6 kHz, 25-07, 1417-1506 UTC

VVV CQ (x23) de L83 (x3) QSA ? 9554 (x3)

6PD de L83 QSA5 AS 9554 K 6PD OK OK K

L83 de AZO QSA 5 OK AS 9554 K

CQ de L83 QSA ? 9554 K

AZO de L83 QSA 5 AS 9554 K

VVV VVV CQ CQ De L83

QTC QTC NR 01 14 010 07 25 2300 3000 510 =

20624 06245 70624 06257 06254 70625 78062 06247 90990 48062 K

20624 06245 70624 06257 06254 70625 78062 06247 90990 48062 K

QSL ? K

L83 de AZO ABV ABV ABV QTC NR 01 14 010 07 25 2300 3000 510 =

20624 06245 70624 06257 06254 70625 78062 06247 90990 48062 K

AZO de L83 OK OK SK SK

4169 kHz, 24-07, 1901 UTC, i.p.

605410 12666 84281 71863 76599 48502 01672 23225 69811 k qru QRU SK

3578 kHz, 24-07, 1903 UTC, i.p.

1502013 95805 58794 62788 97496 05410 12666 84281 71863 76599 48502 04682 23224 69811 K QRU SK QRU SK

5553 kHz, 25-07, 0500 UTC

VVV CQ (x3) de JWN (x2) QTC NR 115 QTC NR 125 QTC 135 QTC NR 145 (transmitted several times)

5553 kHz, 25-07, 0503 UTC

QTC NR 115 QTC 02 17 =

05308 45544 60493 09484 90196 56679 61743 43410 92927 40711 78151 93027 77890 65703 55884 62674 88782 K

ABV QTC 02 17 =

05308 45544 60493 09484 90196 56679 61743 43410 92927 40711 78151 93027 77890 65703 55884 62674 88782 K

5553 kHz, 25-07, 0507 UTC

QTC NR 125 QTC 02 11 =

55001 40000 08698 38573 86560 64550 46453 43568 15916 26693 63280 K

ABV QTC 02 11 =

55001 40000 08698 38573 86560 64550 46453 43568 15916 26693 63280 K

5582 kHz, 25-07, 0731 UTC

FAG wkg 7SJ 9BT PW6

CQ de FAG ? 79 ? 79 K

3413 kHz, 25-07, 1313 UTC

HMX65 wkg HMX61

QRK ? QRV K

4115 kHz, 25-07, 0900 UTC

Outstations on 4113/4114 kHz

AJ54 wkg AJ51

5553 kHz, 25-07, 0511 UTC

QTC NR 135 QTC 02 19 =

40541 47572 37188 52754 41316 58937 98588 71677 40622 42823

01713 70854 85326 04461 54600 03601 60208 79263 06378 =

ABV QTC 02 19 =

40541 47572 37188 52754 41316 58937 98588 71677 40622 42823

01713 70854 85326 04461 54600 03601 60208 79263 06378 K

5553 kHz, 25-07, 0514 UTC

QTC NR 145 QTC 02 21 = = 01003 88434 53243 ... / ... = K

ABV (message repeated) K

QRU SK SK

4763 kHz, 25-07, 1335 UTC

VVV VVV VFH de 2PK QTC

VVV VVV VFH de 2PK QTC = 01 15 =

22225 16015 70086 73580 43465 25478 86733 81512 02231 80023 21476 03107 83841 63846 21351 K

ABV VV QTC 01 15 =

22225 16015 70086 73580 43465 25478 86733 81512 02231 80023 21476 03107 83841 63846 21351 K

QRU K

VVV VVV VFH de 2PK QTC

VVV VFH de 2PK QTC = 01 15 =

22225 16015 70086 73580 43465 25478 86733 81512 02231 80023 21476 03107 83841 63846 21351 K

ABV VV QTC 01 15 =

22225 16015 70086 73580 43465 25478 86733 81512 02231 80023 21476 03107 83841 63846 21351 K

QRU SK

3706.6 kHz, 25-07, 1417-1506 UTC

VVV CQ (x23) de L83 (x3) QSA ? 9554 (x3)

6PD de L83 QSA5 AS 9554 K 6PD OK OK K

L83 de AZO QSA 5 OK AS 9554 K

CQ de L83 QSA ? 9554 K

AZO de L83 QSA 5 AS 9554 K

VVV VVV CQ CQ de L83 QTC QTC NR 01 14 010 07 25 2300 3000 510 =

20624 06245 70624 06257 06254 70625 78062 06247 90990 48062 K (sent twice)

QSL ? K

L83 de AZO ABV ABV ABV QTC NR 01 14 010 07 25 2300 3000 510 =

20624 06245 70624 06257 06254 70625 78062 06247 90990 48062 K

AZO de L83 OK OK SK SK

4254.5 kHz, 25-07, 1737 UTC

1LM de NDF QTC NR 26 14 10 10 07 25 0240 825 966 =

28963 82639 57415 26396 57451 52398 40370 89569 99820 K

4254.5 kHz, 25-07, 1741 UTC

1LM de VM7 QTC NR 26 14 10 10 07 25 .../...

3639.5 kHz, 25-07, 1751 UTC

QRC NR 82921 44617 32010 87838 21586 34363 44712 57867 11130 62077 18165 K

ABV

82921 44617 32010 87838 21586 34363 44712 57867 11130 62077 18165 K

QRU SK

3639.5 kHz, 25-07, 1800 UTC

QTC NR 02 17 =

05308 45544 60493 09484 90196 56679 61743 43410 92927 40711 78151 93027 77890 65703 55884 62674 88782 K

ABV QTC 02 17 =

05308 45544 60493 09484 90196 56679 61743 43410 92927 40711 78151 93027 77890 65703 55884 62674 88782 K

3764 kHz, 25-07, 1803 UTC

VVV NIS de B3A QSA 5 QTC QTC NR NR 63 W4 =

41087 54952 73534 73053 K

ABV

41087 54952 73534 73053 K

3385 kHz, 25-07, 1806 UTC

505 wkg PC6 GAE 3MD KS6 MGL

Outstations send numbers 6787 6848 ...

3640 kHz, 25-07, 1817 UTC

AJC de LNK QTC NR 02 W13 =

38831 45910 73805 94172 59996 65294 04367 56272 18656 67681 80521 35310 83278 K

ABV QTC NR 02 W13 =

38831 45910 73805 94172 59996 65294 04367 56272 18656 67681 80521 35310 83278 K QRU K

3777.5 kHz, 25-07, 1822 UTC

QTC 03 14 =

43701 08038 59124 60984 68025 88418 63813 41004 32943 71319 71574 30652 84957 87815 K

ABV QTC 03 14 =

43701 08038 59124 60984 68025 88418 63813 41004 32943 71319 71574 30652 84957 87815 K

3639.5 kHz, 25-07, 1827 UTC

VVV PK2 de OVU QSL QTC 03 14 =

43701 08038 59124 60984 68025 88418 63813 41004 32943 71319 71574 30652 84957 87815 K

ABV QTC 03 14 =

43701 08038 59124 60984 68025 88418 63813 41004 32943 71319 71574 30652 84957 87815 K

QRU SK

3633 kHz, 25-07, 1828 UTC

QTC 2 13 26 0202 2 =
39645 52865 97430 70596 43034 06326 25180 95700 25932 50897 04238
04036 41042 75935 44936 26927 28487 11275 91153 67998 65210 13178 K
ABV QTC 2 13 26 0202 2 =
39645 52865 97430 70596 43034 06326 25180 95700 25932 50897 04238
04036 41042 75935 44936 26927 28487 11275 91153 67998 65210 13178 K
ABV ABV QTC 2 13 26 0202 2 =
39645 52865 97430 70596 43034 06326 25180 95700 25932 50897 04238
04036 41042 75935 44936 26927 28487 11275 91153 67998 65210 13178 K
QRU SK

3777.5 kHz, 25-07, 1840 UTC

PK2 de 8RI QSL QTC
VVV PK2 de 8RI QSL QTC

3764 kHz, 25-07, 1842 UTC

VVV NIS de B3A QSA 5 QTC QTC NR NR 62 W10 =
41244 86085 82700 63387 95416 35347 87951 35885 54619 03578 K
ABV QTC NR 62 W10 =
41244 86085 82700 63387 95416 35347 87951 35885 54619 03578 K

3639.5 kHz, 25-07, 1847 UTC

PK2 de 8RI QSL QTC VVV PK2 de 8RI QSL QTC

3593 kHz, 25-07, 1850 UTC

QTC QTC NR 62 W10 =
41244 86085 82700 63387 95416 35347 87951 35885 55619 03578 K
ABV QTC NR 62 W10 =
41244 86085 82700 63387 95416 35347 87951 35885 55619 03578 K QRU

5522 kHz, 26-07, 0816 UTC

FSG de 2G7 QSA 0
638.48 K BK BK QSA 3 K
QRU SK

5614.5 kHz 26-07, 0832 UTC

8RI de PK2 QSA ? K
QSA 2 638.41 K
QRU QRU SK SK

4781 kHz 26-07, 0840 UTC

VVV LMT (x3) de LTI (x3) QRU VVV

4177 kHz 26-07, 1310 UTC

FBC wkg XF3

4780 kHz 26-07, 1340 UTC

VVV XNI de MC3 QRU

4729 kHz 26-07, 1344 UTC

VVV FHV de A3B QTC 17 08 = =
22326 17008 02080 02919 03747 98591 68078 16936
VVV VFH de A3B QTC 17 08 =
22326 17008 02080 02919 03747 98591 68078 16936
QRU SK

4763 kHz 26-07, 1350 UTC

FHV de A3B QTC 17 08 = =
22326 17008 02080 02919 03747 98591 68078 16936
VVV VFH de A3B QTC 17 08 =
22326 17008 02080 02919 03747 98591 68078 16936
QRU SK

4729 kHz 26-07, 1356 UTC

VVV QTC 17 08 = =
22326 17008 02080 02919 03747 98591 68078 16936 K
QRU SK

4780 kHz 26-07, 1401 UTC

XNI de M64 QSA 3.4 QRU SK

4026.8 kHz 26-07, 1538 UTC

P3B de GV7 QSA ?
VVV P3B de GV7 QSA ? K

3758 kHz 26-07, 1606 UTC

3BN de 9L4 QRU
VVV 3BN de 9B4 QRU
SK SK

3433 kHz 26-07, 1612 UTC

VVV LV JZS de 1601
QRU SK

3811 kHz 26-07, 1742 UTC

ML5 de 2G7 QSA 2
4644.2144 QRX 2115 QRX 2115
QRU SK

3811 kHz 26-07, 1744 UTC

WBT de 2G7 QSA ? K
WBT de 2G7 QSA 0
638.47 K
WBT de 2G7 QSA 0
638.44 K
WBT de 2G7 QSA 0
638.43 K

3640 kHz 26-07, 1745 UTC

QSL QTC
VVV AJC de AVF
QSL QTC NR 04 W12 = =
76174 86959 28049 40907 71441 98491 02137 30662 34059 38376 07574 17265 K

3578 kHz 26-07, 1800 UTC

J3D de XVD QTC NR =
22275 01227 00022 47470 41226195 606171298 2510 60643 54354 17165 95136 00096 09510 34101 07800 92695 92694
95240 902135986

3635.5 kHz 26-07, 1810 UTC

5O5 wkg K7C L8M GQE

3640 kHz 26-07, 1820 UTC

AJC de LNK
QSL QTC NR 03 W13 =
73110 72554 47383 59955 37601 79228 89894 263801 59187 71401 75515 16304 06095 K

3593 kHz, 27-07, 1845 UTC

NIS de B3A QSA 5 QTC QTC NR 63 W4 =
96634 61783 52579 62260 K
QTC NR 63 W4 =
96634 61783 52579 62260 K

5553 kHz 27-07, 0500 UTC

CQ de JWN
NR115 QTC NR 125 QTC NR 145
QTC NR 115 QTC 04 76 = Text groups 5 Figures
ABV repeat message
QTC NR 125 QTC 04 55 = Text groups 5 Figures
ABV repeat message
QTC NR 145 QTC 04 56 = = Text groups 5 Figures
ABV repeat message
QRU SK

5317 kHz 27-07, 0530 UTC, i.p.

88752 24587
ABV QTC 04 56 = 29848 Text groups 5 Figures
QTC NR 225 QTC 04 56 = Text groups 5 Figures
ABV repeat message
QTC NR 235 QTC 04 41 = Text groups 5 Figures
ABV repeat message
QTC NR 245 QTC 04 41 = Text groups 5 Figures
ABV repeat message
QRU SK

5339 kHz 27-07, 0607 UTC, i.p.

41592 83578 04448 K
QTC NR 225 QTC 04 33 =
75515 41364 ...
ABV repeat message
NR 235 QTC 04 45 =
02620 66722 86316 03499 27869 84597 65536 77610 44917 50703
55740 57269 53809 25579 38231 20384 01812 67499 49079 97657
41218 78610 61674 43171 88757 81400 98454 54547 51522 10816
72556 62979 98596 14502 95694 37165 67474 54693 46139 07432
12936 51696 45376 28556 38248 K
ABV QTC 04 45 =
02620 66722 86316 03499 27869 84597 65536 77610 44917 50703
55740 57269 53809 25579 38231 20384 01812 67499 49079 97657
41218 78610 61674 43171 88757 81400 98454 54547 51522 10816
72556 62979 98596 14502 95694 37165 67474 54693 46139 07432
12936 51696 45376 28556 38248 K
QTC NR 245 QTC 04 33 = 67455 86134 ...
ABV repeat message
QRU SK

5610,5 kHz 27-07, 0701 UTC

OVU de PK2 QSA ? K
AS
QTC 03 76 =
59587 37560 26001 64391 ...
ABV repeat message
QRU SK

5442.5 kHz 27-07, 0731 UTC

CQ CQ de PK2 QTC NR 321 QTC NR 341
QTC NR 321 QTC 03 76 = =
57973 83665 68980 68845 43899 ...
ABV repeat message
QTC NR 341 QTC 03 76 =
44818 46644 68442 61284 ...
ABV repeat message
QRU SK

4933 kHz 27-07, 1611 UTC

3P8 de 2GO =
42594 57750 221 28057 42594 577501 221 28057 42594 57750 221 28057 5361 SK SK

5048.5 kHz 27-07, 1629 UTC, i.p.

ABV NR 732 72 30 07 28 0200 798 095 = =
10690 06558 2839 28681 084389 27203 QRX QRX 0700 0700 QRX K SK GL GL

3777.2 kHz, 27-07, 1708 UTC

VVV PK2 de XOR QTC QTC

3764 kHz 27-07, 1723 UTC

VVV VVV NIS de 9FP
QSL QTC NR 05 W8 =
60949 13087 47875 23746 45459 79072 76444 16945 K
ABV QTC NR 05 W8 = repeat message

3593 kHz 27-07, 1728 UTC

VVV VVV NIS de 9FP
QSL QTC NR 05 W8 =
60949 13087 47875 23746 45459 79072 76444 16945 K
ABV QTC NR 05 W8 = repeat message

3600 kHz 27-07, 1731 UTC

5GO de MBM QSA ?

3685.2 kHz 26-07, 1736 UTC

NX8 DE LRO

3578 kHz 27-07, 1752 UTC

VVV J3D de XVD
QTC 15 29 =
21529 21728 13307 43245 ...
ABV (repeat message)
QRU SK

3578 kHz 27-07, 1758 UTC

VVV J3D de WP6
QTC 04 51 =
22228 04051 51814 86678 ...
ABV (repeat message)
QRU SK

3764 kHz 27-07, 1801 UTC

VVV NIS de B3A
QSA 5 QTC QTC NR NR 65 W4 =
34315 12525 63991 03492 K
ABV (repeat message) K

3593 kHz 27-07, 1804 UTC

VVV NIS de B3A

QSA 5 QTC QTC NR NR 65 W4 =

34315 12525 63991 03492 K

ABV (repeat message) K

3578 kHz 27-07, 1809 UTC

VVV J3D de WP6

QTC 15 29 =

21529 21728 13307 43245 ...

ABV (repeat message)

QRU SK

4169 kHz 27-07, 1815 UTC

VVV J3D de WP6

QTC 15 29 =

21529 21728 13307 43245 ...

ABV (repeat message)

QRU SK

3640 kHz 27-07, 1820 UTC

AJC de LNK

QSL QTC NR 04 W8 =

53696 26381 35146 12548 21540 23298 K

QRU SK

3578 kHz 27-07, 1841 UTC

J3D de A1L

QTC 05 40

QTC 05 42 =

28021 05040 66604 26502 49954 ...

ABV (repeat message)

QRU SK

3593 kHz 27-07, 1844 UTC

VVV NIS de B3A

QSA 5 QTC QTC NR NR 64 W4 =

06253 30092 14345 36260 K

ABV

06253 30092 14345 36260 K

4169 kHz 27-07, 1850 UTC

J3D de A1L

QTC 05 40

QTC 05 42 =

28021 05040 66604 26502 49954 ...

ABV (repeat message)

QRU SK

3789 kHz 27-07, 1900 UTC

UJT wkg JWN

QTC 214 28 91 034 =

15298 10236 30618 43339 961384 72241 33121 01443 08761 00557 56659 61592 K

ABV QTC 214 28 91 034 =

15298 10236 30618 43339 961384 72241 33121 01443 08761 00557 56659 61592 K

5553 kHz 28-07, 0500 UTC

CQ de JWN

NR115 QTC NR 125 QTC NR 135 QRC NR 145

QTC NR 115 QTC 05 14 = 5 fig groups

ABV repeat message

QTC NR 125 QTC 05 35 = 5 fig groups

ABV repeat message

QTC NR 135 QTC 05 26 = = 5 fig groups

ABV repeat message

QTC NR 145 QTC 05 36 = = 5 fig groups

ABV repeat message

QRU SK

5317 kHz 28-07, 0530 UTC

CQ de J3D

QTC NR 215 QTC NR 225 QTC NR 235 QTC NR 245

QTC NR 215 QTC 05 14 = 5 fig groups

ABV repeat message

QTC NR 225 QTC 05 34 = 5 fig groups

ABV repeat message

QTC NR 235 QTC 05 26 = = 5 fig groups

ABV repeat message

QTC NR 245 QTC 05 36 = = 5 fig groups

ABV repeat message

QRU SK

4729 kHz, 28-07, 1322 UTC

VFH de A3B

VVV QTC 19 15 = =

222228 19035 21106 91221 52452 96456 69156 91802 62153 43493 91912 99158 80317 69049 37117 K

ABV repeat message K

4619 kHz, 28-07, 1340 UTC

VVV J3D de WP6 QSA ? K

4763 kHz, 28-06, 1350 UTC

A3B: VVV QTC 19 09 =

22328 19009 91650 99752 26402 85429 89965 72115 84030 K

ABV repeat message

QRU SK K

4763 kHz, 28-07, 1365 UTC

VVV VFH de CP1 QSA ? K

4780 kHz, 28-07, 1400 UTC

XNI QSA ? K QRU K

4729 kHz, 28-07, 1402 UTC

VFH de 4V3 QRU SK

4626 kHz, 28-07, 1406 UTC

8XB de 8R1 QRU VVV

4459 SK SK

5317 kHz, 29-07, 0735 UTC

WP6 de J3D QSA 3 QSA K

431.21.22.23

QTC NR 21 06 W 16 = 4897

ABV 21 06 16 = 79231 23897 87400

5442.5 kHz, 29-07

ABV QTC 99 49 = 07057 01173

5339 kHz, 29-05, 0803 UTC

CQ NIS QTCNR 215 QTC NR 225 QTC NR 235 QTC NR 245 QTC NR 215 QTC NR 06 14 = 5 fig groups

ABV repeat message

QTC NR 225 QTC 06 19 = 5 fig groups

ABV repeat message

QTC NR 235 QTC 06 21 = = 5 fig groups

ABV repeat message

QTC NR 245 QTC 06 20 = = 5 fig groups

ABV repeat message

QRU SK

4670.5 kHz, 29-07, 0837 UTC

VMG de LNI QSA ? K

5294 kHz, 29-07, 0850 UTC

J3D de A1L QSA ? K

5289 kHz, 29-07, 0854 UTC

NIS de RJR QSA ? K

QSA 2 QRV K

4611 kHz, 29-07, 0859 UTC

3FI de 1LT QSA ? K

4615 kHz, 29-07, 0905 UTC

1LT de 3FI QSA ? K

5278 kHz, 29-07, 0910 UTC

4L9 de 7XM QRU QRU 4453 SK

5702.2 kHz, 29-07, 0912 UTC

GMC de LOM QSA ? K

QSA 3 QSA ? K

4640 kHz, 29-07, 1139 UTC

DB6 de 63W QRU

VVV DB6 de 63W QRU 7288 SK

4668 kHz, 29-07, 1144 UTC

VVV S26 DE TN7 QSA ? K

4867 kHz, 29-07, 1201 UTC

GRND wkg 4 outstations

4177 kHz, 29-07, 1218 UTC

VVV CO2 de FBC QSA ? K

XF3 de FBC QSA ? K

4763 kHz, 29-07, 1313 UTC

VFH de CP1 QTC 10 13 =

21013 21729 50153 09005 65958 10813 67856 91158 53678 53014 14199 22759 18780 K

ABV VVV QTC 10 13 = repeat message

QRU SK

4763 kHz, 29-07, 1325 UTC

2PK wkg VFH

QTC 20 15 =

22229 20015 26066 29898 73253 60685 80200 575007 99016 51714 98283 01299 16855 89818 75849 K

ABV repeat message

4763 kHz, 29-07, 1347 UTC

VFH de A3B QTC 20 09 =

22320 82009 86855 75082 80719 76168 88841 23422 19453 K =

VVV QTC 20 09 =

22320 82009 86855 75082 80719 76168 88841 23422 19453 K

4640 kHz, 29-07, 1538 UTC

DB6 de 63W QRU

VVV DB6 de 63W QRU 7288 SK

3873.8 kHz, 29-07, 1606 UTC, i.p.

ABV QTC 23 18 =

30888 68167 50195 83361 33722 91995 35119 68912

4179 kHz, 29-07, 1617 UTC

VVV J5K de FBC QSA 5 QRU

3603 kHz, 29-07, 1621 UTC

VVV 3BN de 9L4 QRU

VVV 3BN de 9L4 QRU

1742 SK

5442.5 kHz, 29-07, 0734 UTC, i.p.

46241 22890 51219 18374 37640 90037 57252 51599 17901 74373

98930 00551 62842 77446 87015 67117 30486 33107 26473 77337

18834 36846 80482 70277 76438 45144 65397 66833 41937 42020

75827 21198 28918 K

ABV **QTC 99 49** = =

07057 31173 34137 21347 82938 03963 97370 94489 712.0 09026

70295 94452 63672 85510 31813 872xx 46241 22890 51219 17364

37640 90037 57252 51699 17901 74373 98930 00551 62842 77446

87015 67117 30486 33107 26473 77337 18834 36846 70277 76438

45144 6..97 66833 ..937 42020 7.827 21198 28918 K

QRU SK

4653.5 kHz, 29-07, 1418 UTC

VVV FG9 DE AH9 QSA ?

7308 7308 SK SK

4665 kHz, 30-07, 0952 UTC, i.p.

CTCX T 55 NR 96 CK 06 0730 1850 =

70509 87598 95989 95821 38745 41170 AR

QSL .. K (0953z)

QSL IS DA = NO ISB ISEE (0955z - Silent)

3619.5 kHz, 30-07, 1604 UTC

= = 93965 30315 22769 29346 72729 67005 08136 59858 70506 97981

64590 05665 24883 35077 49205 79674 17383 04122 94390 29041

92980 11669 43823 71508 87342 95441 26447 50810 84213 K

QRV K

QSL QRU K

3811.5 kHz, 30-07, 1613 UTC, i.p..

82710 44518 52392 94643 17962 33482 57638 15039 94784 89189
64060 16256 K (1613z) (T = 0)
2 = 82710 K
2 = 82710 K
2 = 82710 K
1 = 22218 K
3 = 44518 K
4 = 52392 K
QRU SK

3619.5 kHz, 30-07, 1628 UTC, i.p.

18999 52674 01243 14359 91286 93189 18735 52550 02394 41237
51732 20086 68784 86548 82183 11685 86837 43995 02549 73282
02673 56884 18212 80417 76003 K
10 = = 93189 K
20 = 11685 K
? K
? K
20 = 11685 K
22 = 43995 K
? K
QTC NR 01W 29 = =
33045 87164 13555 89737 18999 52674 01243 14359 91286
93189 18735 52550 02394 41237 51732 20086 68784 86548
82183 11685 86837 43995 02549 73282 02673 56884 18212
80417 76003 K
QRU SK
VVV HFV (x2) DE CIO (x2) QSA ? K
BK
QSA 5 QTC K
QTC NR 99W 13 = =
71729 21232 91339 54054 17029 76705 17182 34107 27691 48488
21697 84108 70794 K
8 = 34107 K
5 = 17029 K
? K
? K
= 6 = 76705 K
6 = 76705 K
7 = 17182 K
QRV K
.. 7 ?
7 K
4 ? K
QSL QRU SK

3811.5 kHz, 30-07, 1652 UTC, i.p.

10 = 21697 K
1 = 71729 K
9 = 27691 K
? K
10 = 21697 K EEEEEEEE
10 = 48488 K
QRU SK

3764 kHz, 30-07, 1802 UTC, i.p.

QTC K

QTC NR 6I8W 13 =

89601 3..20 02241 94775 19268 8606 05372 952 EEEEE

QTC QTC NR 68W 13 =

89601 69802 42075 76... 734 58851 58319 24782 6..56 67.35 73204

03..6 2307 18701 K

ABV

QTC NR 68W 13 =

89601 69802 42075 76... 8841 58319 24782 65656 67235 73204

03026 23057 18701 K

ABV QTC

NR 68W 13 =

89601 69802 42075 76734 58851 58319 24782 65656 67235 73204

03026 23057 18701 K

3593 kHz, 30-07, 1810 UTC, i.p..

24782 65656 67235 73204 0326 2367 18701 K

QTC NR 68W 13 = (Same message sent on 3764 at 1802z)

89601 69802 42075 76734 58851 58319 ...

3633 kHz, 30-07, 1910 UTC

VVV JWN DE TJ7 QSL QTC NR 07 NR 08

VVV JWN DE TJ7 QSL QTC NR 07 NR 08

FFF 389 AAA ... FF 389

5553 kHz, 30-07, 0500 UTC

CQ de JWN NR115 QTC NR 125 QTC NR 135 QRC NR 145

QTC NR 115 QTC 07 41 = 5 fig groupd

ABV repeat message

QTC NR 125 QTC 07 50 = 5 fig groupd

ABV repeat message

QTC NR 135 QTC 07 46 = = 5 fig groups

ABV repeat message

QTC NR 145 QTC 07 36 = = 5 fig groupd

ABV repeat message

QRU SK

5317 kHz, 30-07, 0530 UTC

CQ de J3D QTC NR 215 QTC NR 225 QTC NR 235 QTC NR 245

QTC NR 215 QTC 07 50 = 5 fig groups

ABV repeat message

QTC NR 225 QTC 05 34 = 5 fig groups

ABV repeat message

QTC NR 235 QTC 05 26 = = 5 fig groups

ABV repeat message

QTC NR 245 QTC 05 36 = = 5 fig groups

ABV repeat message

QRU SK

5409 kHz, 30-07,.0536 UTC, i.p.

NR 125 QTC 07 38 = 42875 09702 93842 ...

ABV QTC 07 38 = 42875 09702 93842...

QTC NR 135 QTC 07 35 = 01480 89144 52276 ...

ABV QTC 07 35 = 01480 89144 52276 ...

QTC NR 145 QTC 07 37 = 23592 62341 99107 ...

ABV QTC 07 35 = 23592 62341 99107 ... K

QRU SK

5339 kHz, 30-07, 0607 UTC

CQ NIS QTC NR 215 QTC NR 225 QTC NR 235 QTC NR 245
QTC NR 215 QTC NR 07 37 = Text groups 5 Figures
ABV repeat message a
QTC NR 225 QTC 07 38 =
92080 09100 55742 Text groups 5 Figures
ABV repeat message
QTC NR 235 QTC 07 46 = = 10230 77641 79377 ...
ABV repeat message
QTC NR 245 QTC 07 31 = = 19875 12846 90202 ...
ABV repeat message
QRU SK

6365 kHz, 30-07, 0608 UTC

6RE wkg 7X4 LV9 4SL
QSA ? QSA 3 7X4 de 6RE QSA ? K
VVV LV9 de 6RE QSA ? K
QSA 3 K
VVV 4SL de 6RE QSA ? 465 K
VVV VVV 4SL de 6RE QSA ? 645 K
VVV 4SL de 6RE QSA 2 QSA ? K
QSA 3
QRU K SK
7XJ de 6RE QSA ? 465 K
LV9 de 6RE QSA ? 645 K

5609.5 kHz, 30-07, 0631 UTC

GXG: North Korean Military 0631z CW
TMA DE GXG QTC 1 =
VVV TMA de GXG QTC 1 = 2024 50 07 30 1530 =
45417 04467 73728 51210 84204 ... K
ABV ABV = NR 2024 50 30 07 1530 = 45417 04467 73728 51210 84204 ...
QRU = = SK SK

5425.2 kHz, 30-07, 0743 UTC, i.p.

ABV ABV QTC 21 11 =
60060 36240 64483 49552 75090 24107 04238 60739 73088 32988 09933 K
QRU SK

5425 kHz, 30-07,0651 UTC

VVV VHB de INA QTC NR 18 06 = =
05650 51265 26415 94752 34582 71562 =
ABV ABV = 18 06 = =
05650 51265 26415 94752 34582 71562 K
QRU SK

4641 kHz, 30-07,1206 UTC

5MK de 5PT QRU K
VVV 5MK de 5PT QRU K
5MK de 5PT QRU 4566 SK

4641 kHz, 30-07,1509 UTC

5MK de 5PT QRU K
VVV 5MK de 5PT QRU K
5MK de 5PT QRU 4981 SK

4644 kHz, 30-07,1512 UTC

X6S de CMT QRU K
VVV X6S de CMT QRU
0745 SK SK

3811.5 kHz, 30-07, 1516 UTC, i.p.

33831 31725 45527 73940 98825 95578 07643 71327 5151 42912 06019 84768 10701 65877 89695 06386 30789 K
QRV QSL
QRU SK

3811.5 kHz, 30-07, 1530 UTC

VVV JZ2 de V7W QSA 5 QSA ?
KQTC NR 99 W55 = 23448 94099 70806 ... K
QRV QSL
QRU SK

3795.5 kHz, 30-07, 1558 UTC

VVV Y0V de JRH QSA ? K
VVV Y0V de JRH QSA ? K
QSA 5 8756 K

3619.5 kHz, 30-07, 1607 UTC

V7W de JZ2 QTC NR 99 W29 = 93965 30313 22769 ... K
QRV QSL
QRU SK

3548 kHz, 30-07, 1606 UTC

5MK de 5PT QRU K
VVV 5MK de 5PT QRU K
5MK de 5PT QRU 2198 SK

3811.5 kHz, 30-07, 1611 UTC

V7W QTC 99 W13 =
22218 82810 44518 52392 94643 17962 33482 58638 15039 94784 89189 64060 16256 K

3764 kHz, 30-07, 1801 UTC

VVV NIS de B3A QSA 5 QTC QTC NR 68 W13 =
89061 69802 42075 76734 58851 58319 24782 65656 67245 73204 03026 23057 18051 K
ABV (repeat message) K

3593 kHz, 30-07, 1808 UTC

VVV NIS de B3A QSA 5 QTC QTC NR 68 W13 =
89061 69802 42075 76734 58851 58319 24782 65656 67245 73204 03026 23057 18051 K
ABV (repeat message) K
QRU K SK

3640 kHz, 30-07, 1820 UTC

AJC de LNK QSL QTC NR 07 W4 = 83558 38599 31493 20347
QRU SK

3764 kHz, 30-07, 1838 UTC

VVV NIS de B3A QSA 5 QTC QTC NR 67 W10 =
97063 54857 48689 29177 82740 59137 29116 93105 35142 17001 K
ABV QTC NR 67 W10 = (repeat message 3 times)
QRU K

3764 kHz, 30-07, 1846 UTC

VVV NIS de B3A QSA 5 QTC QTC NR 67 W10 =
97063 54857 48689 29177 82740 59137 29116 93105 35142 17001 K
ABV QTC NR 67 W10 = (repeat message 3 times)
QRU K

4169 kHz, 30-07, 1908 UTC

J3D de A1L QTC 08 33 = 22331 08033 10582 70359 ...

ABV Repeat message

QRU

3578 kHz, 30-07, 1908 UTC

(J3D de A1L QTC 08 33 = 22331 08033 10582 70359 ...

ABV Repeat message

QRU

3789 kHz, 30-07, 1900 UTC

UJT wkg JWN

QTC 214 28 91 034 =

15298 10236 30618 43339 961384 72241 33121 01443 08761 00557 56659 61592 K

ABV QTC 214 28 91 034 =

15298 10236 30618 43339 961384 72241 33121 01443 08761 00557 56659 61592 K

5409 kHz, 31-07, 0530 UTC

CQ de AJC QTC NR 215 QTC NR 225 QTC NR 235 QTC NR 245

QTC NR 115 QTC NR 08 18 = 40499 79875 79148 13846 38845 96772 ...

ABV repeat message

QTC NR 125 QTC 08 13 = 45746 35838 45703 36384 ...

ABV repeat message

QTC NR 135 QTC 08 08 = 76555 60747 81091 90639 ...

ABV repeat message

QTC NR 145 QTC 08 16 = = 1837 95125 1866 73000 ...

ABV repeat message

QRU SK

5317 kHz, 31-07, 0530 UTC

CQ de J3D QTC NR 215 QTC NR 225 QTC NR 235 QTC NR 245

QTC NR 215 QTC 08 28 = 5 fig groups

ABV repeat message

QTC NR 225 QTC 08 24 = 5 fig groups

ABV repeat message

QTC NR 235 QTC 08 14 = = 5 fig groups

ABV repeat message

QTC NR 245 QTC 05 26 = = 5 fig groups

ABV repeat message

QRU SK

5339 kHz, 31-07, 0607 UTC

CQ NIS QTC NR 215.225 QTC NR 235 QTC NR 245

QTC NR215 NR225 QTC 99 18 =

30499 79874 79148 13836 38845 96772 14501 84248 25392 46864 33917 86014 96485 37651 23662 82288 70423 73184 K

ABV repeat message

QTC NR 235 QTC 08 15 = =

75241 44259 14544 36865 43858 52155 57110 72489 53063 70996 94647 75836 38590 51430 42251 K

ABV repeat message

QTC NR 245 QTC 08 16 = =

74494 37799 02197 66874 43113 14781 60019 42954 05369 91615 59316 60597 80775 21568 49588 21447 K

ABV repeat message

QRU SK

5715 kHz, 31-07, 0804 UTC

VVV KVV de VM3 QRU

VVV KVV de VM3 QRU SK

3454.5 kHz, 31-07, 1721 UTC

VVV L47 de WE5 QSA ? K VVV

VVV L47 de WE5 QSA ? K

3618 kHz, 31-07, 1707 UTC

VVV 7JW de 6BK QRU K and 9271 SK

3764 kHz, 31-07, 1721 UTC

NIS de 9FP QTC NR 09 07 =

82488 46852 92032 66342 08937 87166 52088 K

ABV QTC NR 09 07 =

82488 46852 92032 66342 08937 87166 52088 K

3593 kHz, 31-07, 1729 UTC

NIS de 9FP QTC NR 09 07 =

82488 46852 92032 66342 08937 87166 52088 K

ABV QTC NR 09 07 =

82488 46852 92032 66342 08937 87166 52088 K

QRU SK

3789 kHz, 31-07, 1740 UTC

VVV VV9 de OXP QSA ? K

3633 kHz, 31-07, 1744 UTC

JWL de MCV QSL QTC 08 19 =

20819 12801 63474 33536 10522 17547 61429 10598 64030

95196 28087 19566 89529 46140 94398 89941 42290 45519 82523 K

ABV ABV QTC 08 19 = repeat message

SK

3578 kHz, 31-07, 1800 UTC

VVV J3D de WP6 QTC 08 16 =

22201 08016 50896 99041 38327 68146 58391 68192 00709 37062 36835 90039 94911 41147 32303 08225 K

ABV QTC 08 16 =

22201 08016 50896 99041 38327 68146 58391 68192 00709 37062 36835 90039 94911 41147 32303 08225 K

QRU SK

3593 kHz, 31-07, 1800 UTC

VVV NIS de B3A QSA 5 QTC QTC NR 69 W12 =

13191 29284 62693 35775 74837 56051 69089 30906 55578 09556 55392 21214 K ABV

ABV 69 W12 = 13191 29284 62693 35775 74837 56051 69089 30906 55578 09556 55392 21214 K

3637 kHz, 31-07, 1808 UTC

VVV 7JW de 6BK QRU K and 9271 SK

3633 kHz, 31-07, 1820 UTC

VVV JWN de TJ7 QSL QTC

QTC 09 25 =

20925 13801 08842 32822 72848 56485 49909 30158 59548 11694

46945 37052 28083 24016 68775 99544 11751 70450 34378 68920

48641 82898 76164 95580 04327 46621 83635 K A

BV ABV QTC 09 25 =

20925 13801 08842 32822 72848 56485 49909 30158 59548 11694

46945 37052 28083 24016 68775 99544 11751 70450 34378 68920

48641 82898 76164 95580 04327 46621 83635 K

QRU SK

3578 kHz, 31-07, 1839 UTC

VVV J3D de A1L QTC 09 12 =

VVV J3D de A1L QTC 09 12 =

22301 09012 75880 97566 32611 08075 63202 23382 87588 86390 75156 12160

ABV QTC 09 12 = (repeat message)

QRU SK

3593 kHz, 31-07, 1844 UTC

VVV NIS de B3A QSA 5 QTC QTC NR NR 69 W4 =

04125 29003 24152 62015 K

ABV (repeat message)

4169 kHz, 31-07, 1848 UTC

J3D de A1L QTC 05 40

QTC QTC 09 12 =

22301 09012 82860 97445 32611 08085 63202 23382 97588 86390 75156 12160

ABV (repeat message)

QRU SK

3640 kHz, 31-07, 1907 UTC

BWE wkg AJC

QSL QTC QTC NR 68 W4 =

71177 42163 38684 75041 K

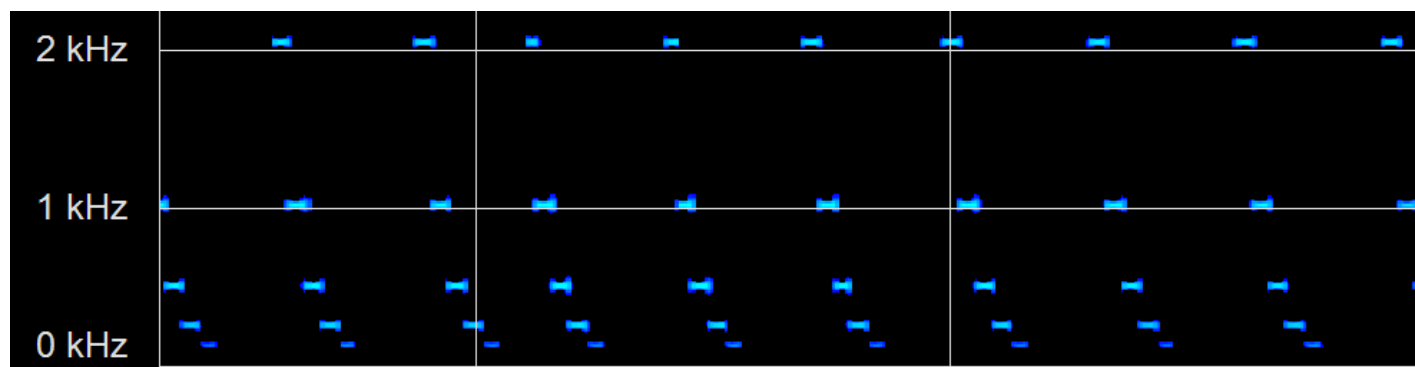
ABV NR 68 W4 =

71177 42163 38684 75041 K

Unid stations

An odd tone sequencer was heard on 6 July, 16591 kHz USB with full carrier. Copied by MCO.

Tones at 2044, 1012, 500, 250 & 125Hz

Recording by MCO: <http://www.numbersoddities.nl/Tone-sequencer.mp3>

On 11 July, Daniel found it active on its channels 7674, 10222, 14462, 16591, 17139 kHz. TDoA precisely showed Frankfurt area as the origin. Claudio also heard the station on 11 July at 1950 UTC on 14462 kHz.

10384 kHz, 26-07, 2325 UTC, i.p.. Logged by JPL

DE UKEU K

DE UKE

DE UKE

OK OK B QBJ 7G ?

OK OK DE UKE UKE ZNN ZNN

VA

VA

DE QLT

DE QLT QLT

DE

OK B QBJ 7G ?

OK OK DE QLT QLT ZNN ZNN
VA
VA
DE UKW UKW
DE UKW
DE UKW
DE UKW
VA
VA

4520 kHz, 26-07, 1431 UTC, i.p. Logged by JPL

VV QNO (x3) DE NLE (x2)
QSV K
QSV K
DE DE DE DE DE
QSV
DE DE DE DE DE NI DE DE
QSV
VV QNO DE NLE QSV K
DE DE DE .. ?
G ZC V VA

RUSSIAN MILITARY TRANSCRIPTS

Excerpts from logs submitted by F5JBR AnEur, and JPL.

RMv/RNv/RNAv/RAv - Russian military voice transmissions

RADv – Russian Air Defense

4230 kHz, 05-07, 1641 UTC. Tracking

M32 - Russian / CIS Military CW Stations

4523 kHz, 04-07, 1903 UTC

RBL91 clg collective c/s RADJ and wkg RFN72, RFN32, RFN33, RFN68, RFN76, RFN77, RFN74

4603 kHz, 06-07, 0600 UTC. Channel marker D for 5 minutes

4603 kHz, 06-07, 0800 UTC. Channel marker D for 5 minutes //5013 kHz

5013 kHz, 06-07, 0800 UTC. Channel marker D for 5 minutes //4603 kHz

4651 kHz, 06-07, 0700, 0730, 0800, 0830 UTC. Channel marker D for 5 minutes

4603 kHz, 06-07, 0706 UTC B8KL wkg YBY7. RPT QTC 04 01 0500 = 1379 K

4603 kHz, 06-07, 0708 UTC B8KL wkg YBY7. RPT QTC 03 03 0435 = 4904 7273 0680 K

4603 kHz, 06-07, 0724 UTC B8KL wkg YBY7. RPT QTC 01 07 0400 = 3736 8224 0299 3393 3041 5007 1759 K

7817//10561 kHz, 02-07, 1238 UTC

XXX XXX WEGI WEGI 51680 URALOZALP 2099 2653 XXX XXX WEGI WEGI 51680 URALOZALP 2099 2653 K

7817//10561 kHz, 02-07, 1315 UTC

XXX XXX WEGI WEGI 92708 STIHOCEP 4553 0625 XXX XXX WEGI WEGI 92708 STIHOCEP 4553 0625 K

6880 kHz, 26-07, 0817 UTC

1663 = 6812 = 3149 = 8711 = 8977 = 5409 = 4973 = 7162 = 7042 = 5066 = 6678 = 6701 = 2394 = 7388 = 9694 = 8725 = 9562 =
0725 = 7330 = 4415 = 9793 = 9886 = 5301 = 3054 = 5077 = 5241 = 8933 = 8087 = 3779 =

7817//10561 kHz 03-07, 0802 UTC

WLHN WLHN WLHN 019 =

CTCHÃO ANBLW RGPDU ŪZSOA RGPDU ŪZSOA RGPDU ŪZSOA ELRTO TDSCE WNOBZ EVRTM NVDHU PRPÂE = K

Net Control: 13963 kHz / Outstations: 14384 kHz, 08-07

0926 UTC

2YJ9 wkg W4PH

554 26 8 1230 554 = FM 360811 FOR 710435 571 = UQPFE ...

0930 UTC W4PH wkg 2YJ9

502 22 8 1230 502 = ZAR 285 =

5897 1269 49.. 8388 0425 9819 9261 1327 4358 9483 3351 4502 6931 9774 4539 1035 0184 3638 7862 0819 QTC K

0943 UTC W4PH wkg 2YJ9

756 15 8 1232 756 = ZIY 285 =

5897 5794 1630 6337 3839 0410 2292 8191 4747 6218 0568 5794 0812 K

1004 UTC 3RYX wkg 2YJ9 *1)

243 19 8 1225 243 = ZMO 838 =

5897 3075 0545 5059 788. 8846 5351 3935 1596 4350 3794 4256 8002 2884 9527 3798 0816 QTC K

1006 UTC 3RYX wkg 2YJ9 *2)

716 18 8 1230 716 = ZLQ 838 =

5897 4045 3451 4644 9339 6300 0297 7474 8689 0346 3528 6809 9309 2866 7968 0815 QTC K

1009 UTC 3RYX wkg 2YJ9 *3)

705 20 8 1235 705 = ZVR 838 =

5897 9973 4075 8966 8733 7722 2437 7884 9442 6866 4860 8778 7853 3889 4593 0413 4123 0817 K

1023 UTC 3RYX wkg NSQL *1)

721 19 8 1240 721 = ZTD 606 =

5897 3075 0545 4059 7880 8846 5351 3935 1596 4350 3794 4256 8002 2884 9627 3798 0816 QTC K

1030 UTC 3RYX wkg NSQL *2)

631 18 8 1245 631 = ZIQ 606 =

5897 4045 3451 4644 9339 6300 0297 7474 8689 0346 3528 6809 9309 2866 7968 0815

1033 UTC 3RYX wkg NSQL *3)

333 20 8 1250 333 = ZUH 606 =

5897 9973 4075 8966 8733 7722 2437 7884 9442 6866 4860 8778 7853 3889 4593 0413 4123 0817 K

1041 UTC 2YJ9 wkg 3RYX

700 26 8 1300 700 = FM 360811 FOR 406909 571 =

UQPFE PÔRRS WCHT UTCFMSOI WCHT UTC...

1105 UTC 2YJ9 wkg 1ZCP

852 26 8 1330 852 = FM 360811 FOR 242497 571 =

UQPFE NBLZ. ..XNG CMBWT ZÂXN UTC...

1123 UTC 2YJ9 wkg LST1

218 26 8 1400 218 = FM 360811 FOR 055964 571 = UQPFE PYCRF ZVNJ UTCÔSÔAW ZVNZJ ...

1133 UTC 3RYX wkg NSQL

140 29 8 1421 140 =

571 PPPPP ÂBVTU FZDMA AÛDTO GXMPB AÛD.. ?

***1), *2) *3) :**

Note the 1^e groups and the repeats of the messages sent by 3RYX (sent earlier by 2YJ9 to 3RYX and then by 3RYX to NSQL)
2YJ9 and NSQL are both on 13964 kHz

M32a - Russian Navy (Voyenno-Morskoy Flot Rossii)

3098.7 kHz, 21-07, 2003 UTC

VVV LV (x2) XOK (x2) de 8101 QTC NR 01 14 10 07 22 0300 002 8101 = 01156021587 29054 95126 ...

Pacific Fleet

5882 kHz, 02-07, 0600 UTC

RJI35 wkg RJD93: SML FM RJI35 FOR RJE60 RJH45 RJH48 =
02061 99467 11502 41/92 92007 101110 40080 57010 22212 = AR RJI35

5882 kHz, 02-07, 0604 UTC

RJY52 wkg RJD93: QTC SML FM RJY52 FOR RJH45 48 RJZ4 =
02061 99521 11414 43192 80207 11030 40185 52023 70222 22000 02010 = AR RJY52 K

5054 kHz, 03-07, 1220 UTC

RJI20 wkg RJC60: QTC SML 567 12 3 1635 567 = FM RJI20 FOR RJH45/RJH48 =
03141 99506 11573 41/94 91804 10090 40160 51000 70022 8///// = AR RJI20 K

3201 kHz, 04-07, 1804 UTC

RJI35 wkg RCC: QTC SML 354 13 4 2100 354 = FM RJI35 FOR RJC60 RJH45 RJH48 =
04181 99504 11571 41497 80510 10060 50146 54000 22211 = AR RJI35 K

5054 kHz, 05-07, 1501 UTC

RJP42 wkg RJD93: QTC SML 688 20 5 1800 688 FM RJP42 FOR RJH48 RJH45 =
05151 99466 11426 41/97 93610 10110 40102 54000 70222 8///// 22200 00120 20803 30211 40803 5///// 6///// = AR RJP42 K

5882 kHz, 06-07, 0602 UTC

RJY52 wkg RJD93: QTC SML 249 14 06 0900 249 = FM RJY352 FOR RJH45 RJH48 RJZ4 =
06061 99522 11414 43797 30703 10200 40240 57020 70102 22200 06010 =RJY52 K

5882 kHz, 06-07, 0607 UTC

RAI44 wkg RJD93: QTC SML = RAI44 818 106 0900 818 = FM RAI44 FOR RJH45 / RJH48 / RJZ4 =
06060 99480 11400 44/98 21505 40139 57007 70000 22243 06009 = AR K

6423 kHz, 06-07, 1204 UTC

RJI99 wkg RJS: QTC SML 929 16 6 1501 929 = FM RJI99 FOR RJH48 =
06121 99466 11427 41597 60000 10140 40180 54000 70322 86220 22200 00120 20000 06013 = AR RJI99

3719 kHz, 29-07, 1408 UTC, i.p.

69565 19745 05360 01537 42963 47049 11332 46653 77920 42769 47486 29024 =
AR RGL80 K
RGL80 RPT 03197
RJD93 R 235 K
RGL80 OK K

8167 kHz, 30-07, 0936 UTC, i.p.

RJS OK QRU K
VVV RJS DE RJP42 QSA ? QRU ? K
RJP42 DE RJS QSA 3 QTC K
RJS DE RJP42 QRV K
RJS 758 29 30 1202 758 =
ZGL =
11111 81949 29950 04766 54665 23005 69189 52938 91538 00244 (Cont'd)

5889 31-07, 0737 UTC, i.p.

RGK34 DE RJS ZNF
RGK34 RPT

Northern Fleet

4537.5 kHz, 05-07, 1201 UTC

RMB81 wkg RJD99: QTC SML 345 18 5 1500 345 = FOR RJH74 RJD90 =

05121 99666 10348 41198 80814 10170 40040 54000 70202 22200 00100 20202 312// 88000 80000 05015 = AR RMB81 K

4537.5 kHz, 05-07, 1205 UTC

RCQE wkg RJD99: QTC SML FOR RJH45 RJD90 = 05121 99647 10354 ... = AR RCQE K

Baltic Fleet

3201 kHz, 21-07, 1506 UTC

RJB22 wkg RCC

QTC SML FM RJB22 FOR RJH45 RJH48 RJE60

21151 99530 11599 42/96 90901 10012 40050 5440 76106 22200 00010 = AR RJB22 = RJB22

3201 kHz, 22-07, 1501 UTC

RJB22 wkg RCC

QTC SML FM RJB22 FOR RJH45 RJH48 RJE60 =

22151 99530 11599 42/95 90516 10120 40060 52001 74545 22200 00013 = AR RJB22 = RJB22

3201 kHz, 22-07, 1506 UTC

RJQ75 wkg RCC

QSO and QTC SML FOR RJH45/RJH48 RJE60 =

22151 99567 11679 4197 70507 10110 40115 52005 70122 22213 00080 20301 = AR RJQ75

5054 kHz, 21-07, 1347 UTC

RJI20 wkg RJC60

QTC 234 12 21 1640 234 = FM RJI20 FOR RJH45 / RJH48 =

21141 99427 11337 41/96 92303 10190 40070 54000 70044 8//// = AR RJI20 K

5807 kHz, 21-07, 0906 UTC

RJB22 wkg RCC

QTC SML FOR RJH45 RJH48 RJE60

21091 99530 11599 42/96 90904 10014 40050 54000 76166 22200 00010 = RJB22

5807 kHz, 21-07, 0911 UTC

RJQ75 wkg RCC

QTC SML 867 18 21 1205 867 = FM RJQ75 FOR RJH45 / RJH48 / RJE60 =

21091 99539 11597 41/96 81603 10120 40050 54000 75266 8//// 22213 00090 299// 317// = AR RJQ75 K

6423 kHz, 22-07, 1404 UTC

RHB81 wkg RJS

QTC SML 271 22 22 1700 271 = RJS/RCC = 11111

6423 kHz, 22-07, 1501 UTC

RHB81 wkg RJS

QTC SML 271 18 22 1822 271 = RJH45/RJH48/RJE60 =

22151 99511 11577 41/97 90514 10114 40026 54000 70222 8//// 22253 00110 20203 309//40303 = AR RHB81 K

8167 kHz, 19-07, 0609 UTC

RGL80 wkg RJS

QTC SML 569 19 19 0900 569 = RJH45 RJH48 =

19091 99449 11386 41/93 92110 10168 40051 57011 74722 22252 00168 20303 = AR RGL80 K and RJS R 569 K

5807 kHz, 29-07, 0747 UTC

VVV RJQ75 DE RCC QSA ? K

5807 kHz, 30-07, 0927 UTC, i.p.

RJQ75 RNII NR 447 RPT 16 K

RCC RPT 52357 K

RPT 16 K

RCC RPT 52357 K

RJQ75 NR 447 RPT 19

RCC RPT 74935 K

RJQ75 NR 447 RPT 20

RCC RPT 13066 K

RJQ75 NR 447 RPT 24 (Cont'd)

M32b - Russian Naval Aviation (Aviatsiya Voenno-morskogo Flota Rossii)

4977 kHz, 05-07, 1700 UTC

RAL2 wkg RIB2, RGH2, RMW2, RHQ2, RBL66

CONTRIBUTORS

AAI	Antonio Anselmi, Italy	F5JBR	F5JBR André, France
AB	Ary Boender, Netherlands	F5JBR-CHN	F5JBR via remote rx China
AB-ATN	Ary Boender via remote rx Bonaire	F5JBR-J	F5JBR André via remote rx Japan
AB-AUT	Ary Boender via remote rx Austria	GHn	Gary Hagermann, UK
AB-CHN	Ary Boender via remote rx China	HFD	Hans-Friedrich Dumrese, Germany
AB-G	Ary Boender via remote rx UK	HFD-RUS	Hans-Friedrich Dumrese via remote rx Russia
AB-IRL	Ary Boender via remote rx in Ireland	HK	Hiroyuki Komatsubara, Japan
AB-J	Ary Boender via remote rx Japan	JPL	JPL, NB, Canada (and various remote rx)
AB-NZL	Ary Boender via remote rx New Zealand	JPL-CHN	JPL via remote rx China
AB-POL	Ary Boender via remote rx Poland	JPL-J	JPL via remote rx Japan
AB-RUS	Ary Boender via remote rx Russia	JPL-Sib	JPL via remote rx Siberia
AB-UKR	Ary Boender via remote rx Ukraine	MCO	Mike Chace-Ortiz, PA, USA
AB-USA	Ary Boender via remote rx USA	MDK2	MDK2, USA
AnEur	Anonymous Europe	MPJ	Jim, SW England
AtB	Attu Bosch, AK, USA	MPJ-AUT	Jim via remote rx Austria
Avare	Avare, Russia	MPJ-HOL	Jim via remote rx Netherlands
BW3	Barry Williams, AL, USA	MPJ-I	Jim via remote rx Italy
BW3-J	Barry Williams via remote rx Japan	MPJ-RUS	Jim via remote rx Russia
CM2	Chris Malboef	Phi-CHN	Philby via remote rx China
Dan	Daniel, Argentina	qsr711	QSR711
Danix	Danix111, Poland	Rizla	Rizla, AZ, USA
Danix-RUS	Danix via remote rx Russia	RL	Roberto Landolpho, Brazil
DK8OK	DK8OK Nils Schiffhaur, D	RR2	Rich Ray, IL, USA
ES-HOL	Edward Smith via remote rx Netherlands	SDX	Sat Dxr
F4LKC	F4LKC Frank, France	skx	skeezix, MN, USA

LOGS SECTION

Code	Freq	Date	UTC	Day	Details	Mode	Ctrb
---	4780	24-7	1342	Tue	Unid, probably North Korean military. VVV (x2) XNI (x2) de MC3 (x2) QRU SK SK	CW	(F5JBR)
---	3764	24-7	1838	Tue	Unid, probably North Korean military. VVV NIS de B3A QSA 5 QTC QTC NR 61 W5 = 03231 45361 00558 06020 39133 K (message repeated 3x) QRU K	CW	(F5JBR)
---	3764	24-7	1843	Tue	Unid, probably North Korean military. VVV NIS de B3A QSA 5 QTC QTC NR 61 W5 = 03231 45361 00558 06020 39133 K (message repeated 3x) QRU K	CW	(F5JBR)
---	5553	25-7	0500	Wed	North Korean military. VVV CQ (x3) de JWN (x2) QTC NR 115 QTC NR 125 QTC 135 QTC NR 145 (transmitted several times)	CW	(F5JBR-J)
---	5553	25-7	0503	Wed	North Korean military. QTC NR 115 QTC 02 17 = 05308 45544 60493 09484 90196 56679 61743 43410 92927 40711 78151 ...	CW	(F5JBR-J)
---	5553	25-7	0507	Wed	North Korean military. QTC NR 125 QTC 02 11 = = 55001 40000 08698 38573 86560 64550 46453 43568 15916 26693 63280 K ABV QTC 02 11 = = ...	CW	(F5JBR-J)
---	5553	25-7	0511	Wed	North Korean military. QTC NR 135 QTC 02 19 = = 40541 47572 37188 52754 41316 58937 98588 71677 40622 42823 01713 ...	CW	(F5JBR-J)
---	5553	25-7	0514	Wed	North Korean military. QTC NR 145 QTC 02 21 = = 01003 88434 53243 ... = K ABV (msg rptd) K QRU SK SK	CW	(F5JBR-J)
---	5582	25-7	0731	Wed	FAG wkg 7SJ 9BT PW6. CQ de FAG ? 79 ? 79 K	CW	(F5JBR)
---	4115	25-7	0900	Wed	AJ54 wkg AJ51. Outstations on 4113/4114 kHz	CW	(F5JBR)
---	3413	25-7	1313	Wed	HMX65 wkg HMX61. QRK ? QRV K	CW	(F5JBR)
---	4763	25-7	1316	Wed	North Korean military. QTC 08 12 = 20812 21725 75944 22275 38789 38336 51760 26072 41377 61412 92345 98932 K QRU QRU SK	CW	(F5JBR-J)
---	4763	25-7	1335	Wed	North Korean military. VVV VVV VFH de 2PK QTC VVV VVV VFH de 2PK QTC = 01 15 = 22225 16015 70086 73580 43465 25478 86733 81512 02231 ...	CW	(F5JBR-J)
---	3706.6	25-7	1417	Wed	North Korean military. VVV CQ (x23) de L83 (x3) QSA ? 9554 (x3) wkg A70 PA6	CW	(F5JBR-J)
---	3706.6	25-7	1418	Wed	North Korean military. 6PD de L83 QSA5 AS 9554 K 6PD OK OK K. L83 de AZO QSA 5 OK AS 9554 K. CQ de L83 QSA ? 9554 K	CW	(F5JBR-J)
---	4520	26-7	1431	Thu	VV QNO (x3) DE NLE (x2) QSV K G ZC V VA	CW	(JPL-CHN)
---	10384	26-7	2325	Thu	Unid. DE UKEU K. DE UKE OK OK B QBJ 7G ? OK OK DE UKE UKE ZNN ZNN VA DE QLT DE QLT QLT DE OK B QBJ 7G ? OK DE QLT ZNN VA DE UKW UKW	CW	(JPL-CHN)
---	4933	27-7	1611	Fri	North Korean Military. 3P8 de 2GO = 42594 57750 221 28057 42594 577501 221 28057 42594 57750 221 28057 5361 SK SK	CW	(F5JBR-J)
---	5442.5	29-7	0734	Sun	North Korean military i.p. 46241 22890 51219 18374 37640 ... ABV QTC 99 49 = = 07057 31173 34137 21347 82938 ... QRU SK	CW	(JPL-J)
---	4653.5	29-7	1418	Sun	North Korean military: VVV FG9 DE AH9 QSA ? 7308 7308 SK SK	CW	(JPL-J)
---	4665	30-7	0952	Mon	North Korean military i.p. CTCX T 55 NR 96 CK 06 0730 1850 = 70509 87598 95989 95821 38745 41170 AR	CW	(JPL-J)
---	3619.5	30-7	1604	Mon	North Korean military i.p. = = 93965 30315 22769 29346 72729 67005 08136 59858 70506 97981 ... 26447 50810 84213 K	CW	(JPL-J)

---	3811.5	30-7	1613	Mon	North Korean military i.p. 82710 44518 52392 94643 17962 33482 57638 15039 94784 89189 64060 16256 K. 2 = 82710 K	CW	(JPL-J)
---	3619.5	30-7	1628	Mon	North Korean military i.p. 18999 52674 01243 14359 91286 93189 18735 52550 02394 41237 ... 18212 80417 76003 K	CW	(JPL-J)
---	3811.5	30-7	1652	Mon	North Korean military i.p. 10 = 21697 K. 1 = 71729 K. 9 = 27691 K	CW	(JPL-J)
---	3764	30-7	1802	Mon	North Korean military i.p. QTC K QTC NR 618W 13 = 89601 3..20 02241 94775 19268 8606 05372 952 EEEEE	CW	(JPL-J)
---	3593	30-7	1810	Mon	North Korean military i.p. 24782 65656 67235 73204 0326 2367 18701 K. QTC NR 68W 13 = (Same message sent on 3764 at 1802z)	CW	(JPL-J)
---	3633	30-7	1910	Mon	North Korean military i.p. VVV JWN DE TJ7 QSL QTC NR 07 NR 08 VVV JWN DE TJ7 QSL QTC NR 07 NR 08	CW	(JPL-J)
---	5131	30-7	2005	Mon	VVV JJT66 VA (Japanese Air Force, Tokyo)	CW	(JPL-J)
---	5131	30-7	2006	Mon	VVV DE JJT88 (Japanese Air Force, Kumagaya)	CW	(JPL-J)
DPRK	12455	5-7	1212	Thu	North Korean diplo i.p.	DPRK-ARQ 600 LSB	(AB)
DPRK	14444	5-7	1212	Thu	North Korean diplo i.p.	DPRK-ARQ 600 LSB	(AB)
DPRK	17415	25-7	0556	Wed	North Korean diplo i.p.	DPRK-ARQ 600 LSB	(AB-J)
DPRK	16003	31-7	0700	Tue	North Korean diplo i.p.	DPRK-ARQ 600 LSB	(AB-RUS)
DPRK	17415	31-7	0734	Tue	North Korean diplo i.p.	DPRK-ARQ 600 LSB	(AB-G)
DPRK	17450	31-7	0734	Tue	North Korean diplo i.p.	DPRK-ARQ 600 LSB	(AB-G)
E06	13366	1-7	1100	Sun	E06 instead of F06. 832 791 40 54157 61177 13224 ... 11100 17348 41948 791 40 00000	USB	(MPJ)
E06	11438	1-7	1200	Sun	E06 instead of F06. 832 791 40 54157 61177 13224 ... 11100 17348 41948 791 40 00000	USB	(MPJ)
E06	15615	5-7	0600	Thu	679 483 51 91237 74361 57502 ... 04265 13283 38612 483 51 00000	USB	(AB)
E06	5934	5-7	2028	Thu	724 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000	USB	(AB)
E06	13825	6-7	0500	Fri	679 483 51 91237 74361 57502 ... 04265 13283 38612 483 51 00000	USB	(AB)
E06	15615	6-7	0600	Fri	679 483 51 91237 74361 57502 ... 04265 13283 38612 483 51 00000	USB	(AB)
E06	5740	6-7	2130	Fri	315 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000	USB	(AB)
E06	13825	19-7	0500	Thu	679 821 50 32778 58569 25822 ... 37922 27111 69418 821 50 00000	USB	(AB)
E06	15615	19-7	0600	Thu	679 821 50 32778 58569 25822 ... 37922 27111 69418 821 50 00000	USB	(AB)
E06	5948	19-7	2030	Thu	724 under BC QRM	USB	(HFD)
E06	13825	20-7	0500	Fri	679 821 50 32778	USB	(HFD)
E06	13825	20-7	0500	Fri	679 821 50 32778 58569 25822 ... 37922 27111 69418 821 50 00000	USB	(AB)
E06	15615	20-7	0600	Fri	679 821 50 32778 58569 25822 ... 37922 27111 69418 821 50 00000	USB	(AB)
E06	15615	20-7	0600	Fri	679	USB	(HFD)
E06	5731	20-7	2128	Fri	Early start. 315 847 58 67391 24518 97497 ... 21645 72848 69529 847 58 00000	USB	(AB)
E07	9064	1-7	0600	Sun	024 024 024 000	USB	(AB)
E07	10264	1-7	0620	Sun	024 024 024 000	USB	(AB)
E07	12223	1-7	1700	Sun	201 201 201 000	USB	(AB)
E07	11023	1-7	1720	Sun	201 201 201 000	USB	(AB)
E07	16263	2-7	1900	Mon	273 273 273 000	USB	(AB/MPJ/RL)
E07	16263	2-7	1900	Mon	273 0	USB	(HFD)

E07	14763	2-7	1920	Mon	273 0		USB	(HFD)
E07	14763	2-7	1920	Mon	273 273 273 000		USB	(AB/RL)
E07	19252	3-7	1100	Tue	242 242 242 000		USB	(AB-RUS/MPJ)
E07	17452	3-7	1120	Tue	242 242 242 000		USB	(AB/MPJ)
E07	12223	4-7	1700	Wed	201 1 220 93 58460		USB	(HFD)
E07	12223	4-7	1700	Wed	201 201 201 1 220 93 220 93 58460 26529 20030 ... 92674 55538 96829 000 000		USB	(AB/MPJ)
E07	11023	4-7	1720	Wed	201 1		USB	(HFD)
E07	11023	4-7	1720	Wed	201 201 201 1 220 93 220 93 58460 26529 20030 ... 92674 55538 96829 000 000		USB	(AB/MPJ)
E07	10123	4-7	1740	Wed	201 1		USB	(HFD)
E07	10123	4-7	1740	Wed	201 201 201 1 220 93 220 93 58460 26529 20030 ... 92674 55538 96829 000 000		USB	(AB/MPJ)
E07	16263	4-7	1900	Wed	273 273 273 000		USB	(AB/MPJ/RL)
E07	14763	4-7	1920	Wed	273 273 273 000		USB	(AB/MPJ/RL)
E07	11593	5-7	2010	Thu	553 553 553 000		AM	(AB)
E07	10547	5-7	2030	Thu	553 553 553 000		AM	(AB)
E07	15962	6-7	0700	Fri	945 945 945 000		USB	(AB)
E07	17462	6-7	0720	Fri	945 945 945 000		USB	(AB)
E07	19252	6-7	1100	Fri	242 242 242 000		USB	(AB)
E07	17452	6-7	1120	Fri	242 242 242 000		USB	(AB)
E07	9064	7-7	0600	Sat	024 024 024 1 835 89 835 89 77170 60471 05166 ... 31600 76640 68963 000 000		USB	(AB)
E07	10264	7-7	0620	Sat	024 024 024 1 835 89 835 89 77170 60471 05166 ... 31600 76640 68963 000 000		USB	(AB)
E07	11464	7-7	0640	Sat	024 024 024 1 835 89 835 89 77170 60471 05166 ... 31600 76640 68963 000 000		USB	(AB)
E07	9064	8-7	0600	Sun	024 024 024 1 835 89 835 89 77170 60471 05166 ... 31600 76640 68963 000 000		USB	(AB)
E07	10264	8-7	0620	Sun	024 024 024 1 835 89 835 89 77170 60471 05166 ... 31600 76640 68963 000 000		USB	(AB)
E07	11464	8-7	0640	Sun	024 024 024 1 835 89 835 89 77170 60471 05166 ... 31600 76640 68963 000 000		USB	(AB)
E07	12223	8-7	1700	Sun	201 201 201 1 220 93 220 93 58460 26529 20030 ... 21211 92674 55538 96829 000 000		USB	(AB/MPJ)
E07	11023	8-7	1720	Sun	201 201 201 1 220 93 220 93 58460 26529 20030 ... 21211 92674 55538 96829 000 000		USB	(AB/MPJ)
E07	10123	8-7	1740	Sun	201 201 201 1 220 93 220 93 58460 26529 20030 ... 21211 92674 55538 96829 000 000		USB	(AB/MPJ)
E07	16263	9-7	1900	Mon	273 273 273 000		USB	(AB/MPJ/RL)
E07	14763	9-7	1920	Mon	273 273 273 000		USB	(AB/MPJ/RL)
E07	15962	10-7	0700	Tue	945 945 945 1 2378 153 2378 153 66377 17190 76955 ... 86278 82895 20399 000 000		USB	(AB)
E07	15962	10-7	0700	Tue	945 1 2378 153 6637		USB	(HFD)
E07	17462	10-7	0720	Tue	945 945 945 1 2378 153 2378 153 66377 17190 76955 ... 86278 82895 20399 000 000		USB	(AB)
E07	17462	10-7	0720	Tue	945 1 via KiwiSDR R		USB	(HFD-RUS)
E07	18542	10-7	0740	Tue	945 945 945 1 2378 153 2378 153 66377 17190 76955 ... 86278 82895 20399 000 000		USB	(AB)
E07	18562	10-7	0740	Tue	945 1 via KiwiSDR R		USB	(HFD-RUS)
E07	19252	10-7	1100	Tue	242 242 242 1 274 105 274 105 01130 76201 52425 ... 61126 56073 07039 000 000		USB	(AB-RUS/MPJ-RUS)
E07	17452	10-7	1120	Tue	242 242 242 1 274 105 274 105 01130 76201 52425 ... 61126 56073 07039 000 000		USB	(AB/MPJ-RUS)
E07	16252	10-7	1140	Tue	242 242 242 1 274 105 274 105 01130 76201 52425 ... 61126 56073 07039 000 000		USB	(AB/MPJ-RUS)
E07	12223	11-7	1700	Wed	201 201 201 000		USB	(AB/MPJ)
E07	11023	11-7	1720	Wed	201 201 201 000		USB	(AB/MPJ)

E07	16263	11-7	1900	Wed	273 273 273 000	USB	(AB/MPJ/RL)
E07	14763	11-7	1920	Wed	273 273 273 000	USB	(AB)
E07	11593	12-7	2010	Thu	553 553 553 1 3308 43 3308 43 96670 87488 98214 ... 53001 91097 07113 000 000	AM	(AB)
E07	10547	12-7	2030	Thu	553 553 553 1 3308 43 3308 43 96670 87488 98214 ... 53001 91097 07113 000 000	AM	(AB/GHn)
E07	9388	12-7	2050	Thu	553 553 553 1 3308 43 3308 43 96670 87488 98214 ... 53001 91097 07113 000 000	AM	(AB)
E07	15962	13-7	0700	Fri	945 945 945 1 2378 153 2378 153 66377 17190 76955 ... 86278 82895 20399 000 000	USB	(AB)
E07	17462	13-7	0720	Fri	945 945 945 1 2378 153 2378 153 66377 17190 76955 ... 86278 82895 20399 000 000	USB	(AB)
E07	18542	13-7	0740	Fri	945 945 945 1 2378 153 2378 153 66377 17190 76955 ... 86278 82895 20399 000 000	USB	(AB)
E07	19252	13-7	1100	Fri	242 242 242 1 274 105 274 105 01130 76201 52425 ... 61126 56073 07039 000 000	USB	(AB-RUS/MPJ)
E07	17452	13-7	1120	Fri	242 242 242 1 274 105 274 105 01130 76201 52425 ... 61126 56073 07039 000 000	USB	(AB/MPJ)
E07	16252	13-7	1140	Fri	242 242 242 1 274 105 274 105 01130 76201 52425 ... 61126 56073 07039 000 000	USB	(AB/MPJ)
E07	9064	14-7	0600	Sat	024 024 024 1 401 61 401 61 36201 09304 35321 ... 65947 97944 08424 000 000	USB	(AB)
E07	10264	14-7	0620	Sat	024 024 024 1 401 61 401 61 36201 09304 35321 ... 65947 97944 08424 000 000	USB	(AB)
E07	11464	14-7	0640	Sat	024 024 024 1 401 61 401 61 36201 09304 35321 ... 65947 97944 08424 000 000	USB	(AB)
E07	9064	15-7	0600	Sun	024 024 024 1 401 61 401 61 36201 09304 35321 ... 65947 97944 08424 000 000	USB	(AB)
E07	10264	15-7	0620	Sun	024 024 024 1 401 61 401 61 36201 09304 35321 ... 65947 97944 08424 000 000	USB	(AB)
E07	11464	15-7	0640	Sun	024 024 024 1 401 61 401 61 36201 09304 35321 ... 65947 97944 08424 000 000	USB	(AB)
E07	12223	15-7	1700	Sun	201 201 201 000	USB	(AB/MPJ)
E07	11023	15-7	1720	Sun	201 201 201 000	USB	(AB/MPJ)
E07	16263	16-7	1900	Mon	273 273 273 1 523 61 523 61 89217 93231 95886 ... 09237 76622 56323 000 000	USB	(AB)
E07	14763	16-7	1920	Mon	273 273 273 1 523 61 523 61 89217 93231 95886 ... 09237 76622 56323 000 000	USB	(AB/skx)
E07	13363	16-7	1940	Mon	273 273 273 1 523 61 523 61 89217 93231 95886 ... 09237 76622 56323 000 000	USB	(AB/skx)
E07	15962	17-7	0700	Tue	945 945 945 000	USB	(AB)
E07	17462	17-7	0720	Tue	945 945 945 000	USB	(AB)
E07	19252	17-7	1100	Tue	242 242 242 000	USB	(AB)
E07	19252	17-7	1100	Tue	242 0	USB	(HFD)
E07	17452	17-7	1120	Tue	242 242 242 000	USB	(AB/MPJ)
E07	17452	17-7	1120	Tue	242 0	USB	(HFD)
E07	12223	18-7	1700	Wed	201 201 201 000	USB	(AB/MPJ)
E07	11023	18-7	1720	Wed	201 201 201 000	USB	(AB/MPJ)
E07	16263	18-7	1900	Wed	273 273 273 1 523 61 523 61 89217 93231 95886 ... 09237 76622 56323 000 000	USB	(AB/MPJ)
E07	14763	18-7	1920	Wed	273 273 273 1 523 61 523 61 89217 93231 95886 ... 09237 76622 56323 000 000	USB	(AB/MPJ)
E07	13363	18-7	1940	Wed	273 273 273 1 523 61 523 61 89217 93231 95886 ... 09237 76622 56323 000 000	USB	(AB/MPJ)
E07	11593	19-7	2010	Thu	553 553 553 000	AM	(AB)
E07	10547	19-7	2030	Thu	553 553 553 000	AM	(AB)
E07	15962	20-7	0700	Fri	945 945 945 000	USB	(AB)
E07	17462	20-7	0720	Fri	945 945 945 000	USB	(AB)
E07	19252	20-7	1100	Fri	242 242 242 000	USB	(AB/MPJ)
E07	17452	20-7	1120	Fri	242 242 242 000	USB	(AB/MPJ)
E07	9064	21-7	0600	Sat	024 024 024 1 401 61 401 61 36201 09304 35321 ... 65947 97944 08424 000 000	USB	(AB)

E07	10264	21-7	0620	Sat	024 024 024 1 401 61 401 61 36201 09304 35321 ... 65947 97944 08424 000 000	USB	(AB)
E07	11464	21-7	0640	Sat	024 024 024 1 401 61 401 61 36201 09304 35321 ... 65947 97944 08424 000 000	USB	(AB)
E07	9064	22-7	0600	Sun	024 024 024 1 401 61 401 61 36201 09304 35321 ... 65947 97944 08424 000 000	USB	(AB)
E07	10264	22-7	0620	Sun	024 024 024 1 401 61 401 61 36201 09304 35321 ... 65947 97944 08424 000 000	USB	(AB)
E07	11464	22-7	0640	Sun	024 024 024 1 401 61 401 61 36201 09304 35321 ... 65947 97944 08424 000 000	USB	(AB)
E07	12223	22-7	1700	Sun	201 201 201 000	USB	(AB/MPJ)
E07	11023	22-7	1720	Sun	201 201 201 000	USB	(AB/MPJ)
E07	16263	23-7	1900	Mon	273 273 273 1 523 61 523 61 89217 93231 95886 ... 09237 76622 56323 000 000	USB	(AB/MPJ/RL/Dan)
E07	14763	23-7	1920	Mon	273 273 273 1 523 61 523 61 89217 93231 95886 ... 09237 76622 56323 000 000	USB	(AB/MPJ/Dan)
E07	13363	23-7	1940	Mon	273 273 273 1 523 61 523 61 89217 93231 95886 ... 09237 76622 56323 000 000	USB	(AB/RL)
E07	17452	24-7	1120	Tue	242 242 242 1 4631 139 41427 75598 76414 ... 66015 43387 33962 000 000	USB	(MPJ)
E07	16252	24-7	1140	Tue	242 242 242 1 4631 139 41427 75598 76414 ... 66015 43387 33962 000 000	USB	(MPJ)
E07	12223	25-7	1700	Wed	201 201 201 1 7504 81 7504 81 02549 02086 12359 ... 81727 10520 08943 000 000	USB	(AB/MPJ)
E07	11023	25-7	1720	Wed	201 201 201 1 7504 81 7504 81 02549 02086 12359 ... 81727 10520 08943 000 000	USB	(AB/MPJ)
E07	10123	25-7	1740	Wed	201 201 201 1 7504 81 7504 81 02549 02086 12359 ... 81727 10520 08943 000 000	USB	(AB/MPJ)
E07	16263	25-7	1900	Wed	273 273 273 1 523 61 523 61 89217 93231 95886 ... 09237 76622 56323 000 000	USB	(AB/MPJ/RL/skx)
E07	14763	25-7	1920	Wed	273 273 273 1 523 61 523 61 89217 93231 95886 ... 09237 76622 56323 000 000	USB	(AB/MPJ/RL/skx)
E07	13363	25-7	1940	Wed	273 273 273 1 523 61 523 61 89217 93231 95886 ... 09237 76622 56323 000 000	USB	(AB/MPJ/RL/skx)
E07	15962	27-7	0700	Fri	945 945 945 1 161 131 161 131 45768 20455 90842 ... 15517 56032 73194 000 000	USB	(AB)
E07	17462	27-7	0720	Fri	945 945 945 1 161 131 161 131 45768 20455 90842 ... 15517 56032 73194 000 000	USB	(AB)
E07	18542	27-7	0740	Fri	945 945 945 1 161 131 161 131 45768 20455 90842 ... 15517 56032 73194 000 000	USB	(AB)
E07	19252	27-7	1100	Fri	242 242 242 1 4631 139 4631 139 41427 75598 76414 ... 66015 43387 33962 000 000	USB	(AB-RUS/MPJ)
E07	17452	27-7	1120	Fri	242 242 242 1 4631 139 4631 139 41427 75598 76414 ... 66015 43387 33962 000 000	USB	(AB-RUS/MPJ)
E07	16252	27-7	1140	Fri	242 242 242 1 4631 139 4631 139 41427 75598 76414 ... 66015 43387 33962 000 000	USB	(AB/MPJ)
E07	9064	28-7	0600	Sat	024 024 024 1 401 61 401 61 36201 09304 35321 ... 65947 97944 08424 000 000	USB	(AB)
E07	10264	28-7	0620	Sat	024 024 024 1 401 61 401 61 36201 09304 35321 ... 65947 97944 08424 000 000	USB	(AB)
E07	11464	28-7	0640	Sat	024 024 024 1 401 61 401 61 36201 09304 35321 ... 65947 97944 08424 000 000	USB	(AB)
E07	9064	29-7	0600	Sun	024 024 024 1 401 61 401 61 36201 09304 35321 ... 65947 97944 08424 000 000	USB	(AB)
E07	10264	29-7	0620	Sun	024 024 024 1 401 61 401 61 36201 09304 35321 ... 65947 97944 08424 000 000	USB	(AB)
E07	11464	29-7	0640	Sun	024 024 024 1 401 61 401 61 36201 09304 35321 ... 65947 97944 08424 000 000	USB	(AB)
E07	12223	29-7	1700	Sun	201 201 201 1 7504 81 7504 81 02549 02086 12359 ... 81727 10520 08943 000 000	USB	(AB/MPJ)
E07	11023	29-7	1720	Sun	201 201 201 1 7504 81 7504 81 02549 02086 12359 ... 81727 10520 08943 000 000	USB	(AB/MPJ)
E07	10123	29-7	1740	Sun	201 201 201 1 7504 81 7504 81 02549 02086 12359 ... 81727 10520 08943 000 000	USB	(AB/MPJ)
E07	16263	30-7	1900	Mon	273 273 273 1 523 61 523 61 89217 93231 95886 ... 09237 76622 56323 000 000	USB	(AB/MPJ-I/RL)
E07	14763	30-7	1920	Mon	273 273 273 1 523 61 523 61 89217 93231 95886 ... 09237 76622 56323 000 000	USB	(AB/RL)
E07	13363	30-7	1940	Mon	273 273 273 1 523 61 523 61 89217 93231 95886 ... 09237 76622 56323 000 000	USB	(AB/RL)
E07	15962	31-7	0700	Tue	945 945 945 000	USB	(AB)
E07	17462	31-7	0720	Tue	945 945 945 000	USB	(AB)
E07	17452	31-7	1120	Tue	242 242 242 000	USB	(MPJ)
E07a	12166	4-7	2000	Wed	172 172 172 1 69198 230 67 230 67 46756 42029 89891 ... 12436 47907 82425 000 000	USB	(AB/RL)

E07a	10766	4-7	2020	Wed	172 172 172 1 69198 230 67 230 67 46756 42029 89891 ... 12436 47907 82425 000 000	USB	(AB/RL)
E07a	9266	4-7	2040	Wed	172 172 172 1 69198 230 67 230 67 46756 42029 89891 ... 12436 47907 82425 000 000	USB	(AB)
E07a	7933	5-7	0430	Thu	912 912 912 1 69198 230 67 230 67 46756 42029 89891 ... 12436 47907 82425 000 000	USB	(AB)
E07a	9133	5-7	0450	Thu	912 912 912 1 69198 230 67 230 67 46756 42029 89891 ... 12436 47907 82425 000 000	USB	(AB)
E07a	10233	5-7	0510	Thu	912 912 912 1 69198 230 67 230 67 46756 42029 89891 ... 12436 47907 82425 000 000	USB	(AB)
E07a	12213	6-7	1510	Fri	241 241 241 1 64249 382 61 382 61 25202 17486 38777 ... 06094 40965 46127 000 000	USB	(AB)
E07a	11413	6-7	1530	Fri	241 241 241 1 64249 382 61 382 61 25202 17486 38777 ... 06094 40965 46127 000 000	USB	(AB)
E07a	10113	6-7	1550	Fri	241 241 241 1 64249 382 61 382 61 25202 17486 38777 ... 06094 40965 46127 000 000	USB	(AB)
E07a	12173	7-7	0800	Sat	198 198 198 1 64249 382 61 382 61 25202 17486 38777 ... 06094 40965 46127 000 000	USB	(AB)
E07a	13973	7-7	0820	Sat	198 198 198 1 64249 382 61 382 61 25202 17486 38777 ... 06094 40965 46127 000 000	USB	(AB)
E07a	14873	7-7	0840	Sat	198 198 198 1 64249 382 61 382 61 25202 17486 38777 ... 06094 40965 46127 000 000	USB	(AB)
E07a	12166	11-7	2000	Wed	172 172 172 000	USB	(AB)
E07a	10766	11-7	2020	Wed	172 172 172 000	USB	(AB/RL)
E07a	7933	12-7	0430	Thu	912 912 912 000	USB	(AB)
E07a	9133	12-7	0450	Thu	912 912 912 000	USB	(AB)
E07a	12213	13-7	1510	Fri	241 241 241 000	USB	(AB/MPJ)
E07a	11413	13-7	1530	Fri	241 241 241 000	USB	(AB/MPJ)
E07a	12173	14-7	0800	Sat	198 0	USB	(HFD)
E07a	12173	14-7	0800	Sat	198 198 198 000	USB	(AB)
E07a	13973	14-7	0820	Sat	198 0	USB	(HFD)
E07a	13973	14-7	0820	Sat	198 198 198 000	USB	(AB)
E07a	12166	18-7	2000	Wed	172 172 172 000	USB	(AB)
E07a	10766	18-7	2020	Wed	172 172 172 000	USB	(AB)
E07a	7933	19-7	0430	Thu	912 912 912 000	USB	(AB)
E07a	9133	19-7	0450	Thu	912 912 912 000	USB	(AB)
E07a	12213	20-7	1510	Fri	241 241 241 000	USB	(MPJ)
E07a	11413	20-7	1530	Fri	241 241 241 000	USB	(AB)
E07a	12173	21-7	0800	Sat	198 198 198 000	USB	(AB)
E07a	13973	21-7	0820	Sat	198 198 198 000	USB	(AB)
E07a	12166	25-7	2000	Wed	172 172 172 1 32016 524 36 524 36 28634 77807 73625 ... 41326 37783 06155 000 000	USB	(AB/RL/skx)
E07a	10766	25-7	2020	Wed	172 172 172 1 32016 524 36 524 36 28634 77807 73625 ... 41326 37783 06155 000 000	USB	(AB/RL/skx)
E07a	9266	25-7	2040	Wed	172 172 172 1 32016 524 36 524 36 28634 77807 73625 ... 41326 37783 06155 000 000	USB	(AB/RL)
E07a	7933	26-7	0430	Thu	912 912 912 1 32016 524 36 524 36 28634 77807 73625 ...41326 37783 06155 000 000	USB	(AB)
E07a	9133	26-7	0450	Thu	912 912 912 1 32016 524 36 524 36 28634 77807 73625 ...41326 37783 06155 000 000	USB	(AB)
E07a	10233	26-7	0510	Thu	912 912 912 1 32016 524 36 524 36 28634 77807 73625 ...41326 37783 06155 000 000	USB	(AB)
E07a	12213	27-7	1510	Fri	241 241 241 000	USB	(AB/MPJ)
E07a	12213	27-7	1510	Fri	241 0	USB	(HFD)
E07a	11413	27-7	1530	Fri	241 0	USB	(HFD)
E07a	11413	27-7	1530	Fri	241 241 241 000	USB	(AB/MPJ)
E07a	12173	28-7	0800	Sat	198 198 198 000	USB	(AB)

E07a	13973	28-7	0820	Sat	198 198 198 000	USB	(AB)
E11	6480	1-7	0710	Sun	498/00	USB	(AB)
E11	9079	1-7	0805	Sun	310/00	USB	(AB)
E11	4783	1-7	1605	Sun	232/00	USB	(AB/MPJ)
E11	14940	1-7	1650	Sun	920/00	USB	(MPJ-AUT)
E11	14410	1-7	1745	Sun	240/00	USB	(AB/MPJ)
E11	9610	1-7	1910	Sun	614/00	USB	(AB/MPJ)
E11	9130	1-7	2005	Sun	366/00	USB	(AB)
E11	7469	2-7	0450	Mon	414/00	USB	(AB)
E11	15800	2-7	0600	Mon	too weak to copy	USB	(AB)
E11	15800	2-7	0640	Mon	948/00	USB	(AB)
E11	8545	2-7	1045	Mon	696/00	USB	(AB)
E11	13537	2-7	1225	Mon	527/00	USB	(MPJ)
E11	14410	2-7	1745	Mon	245/00	USB	(AB/MPJ)
E11	7600	2-7	1900	Mon	648/00	USB	(AB/MPJ)
E11	13424	3-7	0645	Tue	519/00	USB	(AB)
E11	10429	3-7	0715	Tue	633/00	USB	(AB)
E11	12202	3-7	0845	Tue	155/00	USB	(AB)
E11	15825	3-7	1345	Tue	919/00	USB	(AB-POL/MPJ-I)
E11	14783	3-7	1605	Tue	231/00	USB	(AB/MPJ)
E11	14575	3-7	1645	Tue	333/00	USB	(AB/MPJ)
E11	15800	4-7	0640	Wed	940/00	USB	(AB)
E11	17378	4-7	0820	Wed	133/00	USB	(AB)
E11	6304	4-7	0930	Wed	275/00	USB	(AB)
E11	8545	4-7	1045	Wed	691/00	USB	(AB/MPJ)
E11	14865	4-7	1705	Wed	396/00	USB	(AB/MPJ/RL)
E11	13424	5-7	0645	Thu	517/00	USB	(AB)
E11	12202	5-7	0845	Thu	159/00	USB	(AB)
E11	6304	5-7	0930	Thu	279/00	USB	(AB)
E11	11581	5-7	1300	Thu	585/00	USB	(AB/MPJ)
E11	14575	5-7	1645	Thu	335/00	USB	(AB)
E11	8088	5-7	1730	Thu	411/00	USB	(AB/MPJ)
E11	7600	5-7	1900	Thu	649/00	USB	(AB/MPJ)
E11	10429	6-7	0715	Fri	639/00	USB	(AB)
E11	13537	6-7	1225	Fri	525/00	USB	(AB)
E11	14940	6-7	1650	Fri	926/00	USB	(AB-POL)
E11	6480	7-7	0710	Sat	498/00	USB	(AB)
E11	9079	7-7	0805	Sat	311/00	USB	(AB)
E11	11581	7-7	1300	Sat	589/00	USB	(AB/MPJ)
E11	15825	7-7	1345	Sat	911/00	USB	(MPJ)

E11	14865	7-7	1705	Sat	392/00	USB	(AB/MPJ)
E11	7984	7-7	1730	Sat	405/00	USB	(AB)
E11	6480	8-7	0710	Sun	498/00	USB	(AB)
E11	9079	8-7	0805	Sun	310/00	USB	(AB)
E11	4783	8-7	1605	Sun	231/00	USB	(AB/MPJ)
E11	14940	8-7	1650	Sun	924/00	USB	(AB/MPJ)
E11	14410	8-7	1745	Sun	246/00	USB	(AB/MPJ)
E11	7469	9-7	0450	Mon	414/00	USB	(AB)
E11	13873	9-7	0600	Mon	185/00	USB	(AB)
E11	9610	9-7	0745	Mon	266/00	USB	(AB)
E11	5082	9-7	0820	Mon	439/00	USB	(AB)
E11	8545	9-7	1045	Mon	696/00	USB	(AB/MPJ)
E11	14410	9-7	1745	Mon	245/00	USB	(AB/MPJ)
E11	7600	9-7	1900	Mon	643/00	USB	(AB/MPJ)
E11	13424	10-7	0645	Tue	511/00	USB	(AB)
E11	6849	10-7	0700	Tue	574/00	USB	(AB)
E11	10429	10-7	0715	Tue	635/00	USB	(AB)
E11	17378	10-7	0820	Tue	131/00	USB	(AB-G)
E11	12397	10-7	1000	Tue	309/00	USB	(AB)
E11	6304	10-7	1205	Tue	462/00	USB	(AB-AUT/MPJ)
E11	15825	10-7	1345	Tue	915/00	USB	(MPJ)
E11	4783	10-7	1605	Tue	235/00	USB	(MPJ)
E11	14575	10-7	1645	Tue	333/00	USB	(AB/MPJ)
E11	11581	10-7	1925	Tue	551/00	USB	(GHn)
E11	15800	11-7	0640	Wed	949/00	USB	(AB)
E11	6304	11-7	0930	Wed	275/00	USB	(AB)
E11	8545	11-7	1045	Wed	698/00	USB	(AB/MPJ)
E11	6304	11-7	1205	Wed	466/00	USB	(AB-AUT/MPJ)
E11	15795	11-7	1625	Wed	976/00	USB	(AB-AUT/MPJ)
E11	14865	11-7	1705	Wed	395/00	USB	(AB/MPJ/RL)
E11	13424	12-7	0645	Thu	517/00	USB	(AB)
E11	5082	12-7	0820	Thu	436/00	USB	(AB)
E11	6304	12-7	0930	Thu	275/00	USB	(AB)
E11	14575	12-7	1645	Thu	332/00	USB	(AB-G/MPJ-I)
E11	8088	12-7	1730	Thu	410/00	USB	(AB/MPJ)
E11	7600	12-7	1900	Thu	640/00	USB	(AB)
E11	13873	13-7	0600	Fri	182/00	USB	(AB)
E11	6849	13-7	0700	Fri	574/00	USB	(AB)
E11	15720	13-7	0745	Fri	340/00	USB	(AB)
E11	14940	13-7	1650	Fri	925/00	USB	(MPJ)

E11	9610	13-7	1910	Fri	612/00	USB	(AB/MPJ)
E11	6480	14-7	0710	Sat	492/00	USB	(AB)
E11	15825	14-7	1345	Sat	917/00	USB	(AB-POL/MPJ)
E11	14865	14-7	1705	Sat	390/00	USB	(AB/MPJ)
E11	9130	14-7	2005	Sat	367/00	USB	(AB)
E11	6480	15-7	0710	Sun	497/00	USB	(AB)
E11a	9079	15-7	0805	Sun	315/31 13111 81501 55769 ... 68119 21735 94533 (message repeated) Out. No "Attention"	USB	(AB)
E11	4783	15-7	1605	Sun	230/00	USB	(AB/MPJ)
E11	15795	15-7	1625	Sun	977/00	USB	(AB-IRL/MPJ)
E11	14940	15-7	1650	Sun	925/00	USB	(AB/MPJ)
E11	14410	15-7	1745	Sun	240/00	USB	(AB/MPJ)
E11	9610	16-7	0745	Mon	266/00	USB	(AB)
E11	5082	16-7	0820	Mon	434/00	USB	(AB)
E11	13537	16-7	1225	Mon	525/00	USB	(AB/MPJ)
E11	14410	16-7	1745	Mon	240/00	USB	(AB/MPJ)
E11	6849	17-7	0700	Tue	576/00	USB	(AB)
E11	10429	17-7	0715	Tue	635/00	USB	(AB)
E11	17378	17-7	0820	Tue	133/00	USB	(AB-G)
E11	12202	17-7	0845	Tue	154/00	USB	(AB)
E11	12397	17-7	1000	Tue	305/00	USB	(AB)
E11	6304	17-7	1205	Tue	465/00	USB	(AB/MPJ)
E11	14575	17-7	1645	Tue	331/00	USB	(AB/MPJ)
E11	11581	17-7	1925	Tue	550/00	USB	(AB/MPJ)
E11	15800	18-7	0640	Wed	945/00	USB	(AB)
E11	15720	18-7	0745	Wed	344/00	USB	(AB)
E11	17378	18-7	0820	Wed	133/00	USB	(AB-G)
E11	6304	18-7	0930	Wed	279/00	USB	(AB)
E11	6304	18-7	1205	Wed	464/00	USB	(AB)
E11	15795	18-7	1625	Wed	970/00	USB	(AB-G/MPJ)
E11	7984	18-7	1730	Wed	408/00	USB	(AB/MPJ)
E11	5082	19-7	0820	Thu	431/00	USB	(AB)
E11	6304	19-7	0930	Thu	276/00	USB	(AB)
E11	11581	19-7	1300	Thu	583/00	USB	(AB/GHn/MPJ)
E11	10356	19-7	1530	Thu	260/00	USB	(AB/MPJ)
E11	14575	19-7	1645	Thu	333/00	USB	(AB-G/MPJ)
E11a	8088	19-7	1730	Thu	414/33 Attention 34989 72090 68208 ... 75382 47200 19619 Attention (message repeated) Out	USB	(AB/MPJ)
E11	13873	20-7	0600	Fri	180/00	USB	(AB)
E11	6849	20-7	0700	Fri	571/00	USB	(AB)
E11	10429	20-7	0715	Fri	634/00	USB	(AB)
E11	15720	20-7	0745	Fri	346/00	USB	(AB-G)

E11	13537	20-7	1225	Fri	520/00	USB	(AB/MPJ)
E11	9610	20-7	1910	Fri	613/00	USB	(AB/MPJ)
E11	9079	21-7	0805	Sat	311/00	USB	(AnEur)
E11	11581	21-7	1300	Sat	583/00	USB	(AB/MPJ)
E11	14865	21-7	1705	Sat	399/00	USB	(AB/MPJ)
E11	7984	21-7	1730	Sat	400/00	USB	(AB)
E11	9130	21-7	2005	Sat	367/00	USB	(AB)
E11	9079	22-7	0805	Sun	313/00	USB	(AB)
E11	15795	22-7	1625	Sun	972/00	USB	(AB-G/MPJ)
E11	14410	22-7	1745	Sun	249/00	USB	(AB/MPJ)
E11	9610	22-7	1910	Sun	617/00	USB	(HFD)
E11	9610	22-7	1910	Sun	617/00	USB	(AB/MPJ)
E11	7469	23-7	0450	Mon	411/00	USB	(AB)
E11	13873	23-7	0600	Mon	183/00	USB	(AB)
E11	9610	23-7	0745	Mon	268/00	USB	(AB)
E11	5082	23-7	0820	Mon	432/00	USB	(HFD)
E11	5082	23-7	0820	Mon	432/00	USB	(AB)
E11	8545	23-7	1045	Mon	697/00	USB	(AB)
E11	13537	23-7	1225	Mon	525/00	USB	(AB/MPJ)
E11	6304	24-7	1205	Tue	461/00	USB	(MPJ)
E11	15825	24-7	1345	Tue	919/00	USB	(MPJ)
E11	4783	24-7	1605	Tue	237/00	USB	(MPJ)
E11a	14575	24-7	1645	Tue	331/31 79931 53023 01634 ... 51372 45936 80275. Rpts. Out	USB	(MPJ)
E11	11581	24-7	1925	Tue	558/00	USB	(AB)
E11	15720	25-7	0745	Wed	344/00	USB	(AB-G)
E11	8545	25-7	1045	Wed	692/00	USB	(AB/MPJ)
E11	6304	25-7	1205	Wed	466/00	USB	(AB/MPJ)
E11	15795	25-7	1625	Wed	978/00	USB	(AB/MPJ)
E11	7984	25-7	1730	Wed	404/00	USB	(AB/MPJ)
E11	13424	26-7	0645	Thu	510/00	USB	(AB)
E11	5082	26-7	0820	Thu	439/00	USB	(AB)
E11	12202	26-7	0845	Thu	155/00	USB	(AB)
E11	11581	26-7	1300	Thu	588/00	USB	(AB)
E11	10356	26-7	1530	Thu	262/00	USB	(AB/MPJ/BW3)
E11	8088	26-7	1730	Thu	418/00	USB	(AB/MPJ/skx)
E11	7600	26-7	1900	Thu	643/00	USB	(MPJ)
E11	11582	26-7	1925	Thu	556/00	USB	(AB-IRL)
E11	13873	27-7	0600	Fri	185/00	USB	(AB)
E11	6849	27-7	0700	Fri	575/00	USB	(AB)
E11	15720	27-7	0745	Fri	347/00	USB	(AB-G)

E11	12397	27-7	1000	Fri	304/00	USB	(AB/MPJ)
E11	13537	27-7	1225	Fri	524/00	USB	(AB-IRL)
E11	14940	27-7	1650	Fri	925/00	USB	(AB-POL/MPJ)
E11	9610	27-7	1910	Fri	611/00	USB	(AB-POL)
E11	6480	28-7	0710	Sat	491/00	USB	(AB)
E11	9079	28-7	0805	Sat	313/00	USB	(AB)
E11	11581	28-7	1300	Sat	580/00	USB	(AB/MPJ)
E11	15825	28-7	1345	Sat	918/00	USB	(AB/MPJ)
E11	7984	28-7	1730	Sat	405/00	USB	(AB/MPJ)
E11	9130	28-7	2005	Sat	367/00	USB	(AB)
E11	6480	29-7	0710	Sun	497/00	USB	(AB)
E11	9079	29-7	0805	Sun	313/00	USB	(AB)
E11	4783	29-7	1605	Sun	235/00	USB	(AB)
E11	15795	29-7	1625	Sun	970/00	USB	(MPJ)
E11	14940	29-7	1650	Sun	922/00	USB	(MPJ)
E11	9610	29-7	1910	Sun	618/00	USB	(AB-POL/MPJ)
E11	9130	29-7	2005	Sun	367/00	USB	(AB)
E11	7469	30-7	0450	Mon	416/00	USB	(AB)
E11	13873	30-7	0600	Mon	184/00	USB	(AB-G)
E11	15800	30-7	0640	Mon	940/00	USB	(AB-G)
E11	9610	30-7	0745	Mon	260/00	USB	(AB)
E11	5082	30-7	0820	Mon	439/00	USB	(AB)
E11	8545	30-7	1045	Mon	693/00	USB	(AB/MPJ)
E11	13537	30-7	1225	Mon	522/00	USB	(AB/MPJ)
E11	14410	30-7	1745	Mon	249/00	USB	(MPJ)
E11	7600	30-7	1900	Mon	646/00	USB	(AB/MPJ)
E11	6849	31-7	0700	Tue	573/00	USB	(AB)
E11	17378	31-7	0820	Tue	135/00	USB	(AB)
E11	12202	31-7	0845	Tue	159/00	USB	(AB)
E11	12397	31-7	1000	Tue	306/00	USB	(AB)
E11	6304	31-7	1205	Tue	465/00	USB	(AB/MPJ)
E11	14575	31-7	1645	Tue	331/00	USB	(AB/MPJ)
E11	11581	31-7	1925	Tue	556/00	USB	(AB)
E11a	9610	2-7	0745	Mon	264/39 Attention 06075 03707 01747 ... 81626 02959 23694 Attention (message repeated) Out	USB	(AB)
E11a	5082	2-7	0820	Mon	439/34 Attention 18509 03706 40774 ... 09945 76681 70363 Attention (message repeated) Out	USB	(AB)
E11a	6849	3-7	0700	Tue	574/35 Attention 67599 97425 17576 ... 74400 84412 08527 Attention (message repeated) Out	USB	(AB)
E11a	12397	3-7	1000	Tue	308/40 24499 67042 32490 ... 07710 36121 56004 (message repeated) Out. No "Attention"	USB	(AB)
E11a	6304	3-7	1205	Tue	465/32 Attention 28444 70826 94778 ... 01508 20552 97996 Attention (message repeated) Out	USB	(AB-AUT/MPJ)
E11a	11581	3-7	1925	Tue	552/31 16538 56845 67381 ... 75992 33750 37570 (message repeated) Out. No "Attention"	USB	(AB)
E11a	15720	4-7	0745	Wed	342/39 14485 30503 98025 ... 90151 42584 45063 (message repeated) Out. No "Attention"	USB	(AB)

E11a	6304	4-7	1205	Wed	465/32 Attention 28444 70826 94778 ... 01508 20552 97996 Attention (message repeated) Out	USB	(AB-AUT/MPJ)
E11a	15795	4-7	1625	Wed	974/34 43139 47292 00987 ... 51482 31904 29606. Rpts. Out	USB	(MPJ-I)
E11a	5082	5-7	0820	Thu	439/34 Attention 18509 03706 40774 ... 09945 76681 70363 Attention (message repeated) Out	USB	(AB)
E11a	10356	5-7	1530	Thu	264/39 Attention 06075 03707 01747 ... 81626 02959 23694 Attention (message repeated) Out	USB	(AB/MPJ)
E11a	11581	5-7	1925	Thu	552/31 16538 56845 67381 ... 75992 33750 37570 (message repeated) Out. No "Attention"	USB	(AB)
E11a	13873	6-7	0600	Fri	184/29 Attention 01211 29509 90765 ... 47102 28459 26761 Attention (message repeated) Out	USB	(AB)
E11a	6849	6-7	0700	Fri	574/35 Attention 67599 97425 17576 ... 74400 84412 08527 Attention (message repeated) Out	USB	(AB)
E11a	15720	6-7	0745	Fri	342/39 14485 30503 98025 ... 90151 42584 45063 (message repeated) Out. No "Attention"	USB	(AB)
E11a	12397	6-7	1000	Fri	308/40 75415 20419 44913 ... 06757 66443 81563 (message repeated) Out. No "Attention"	USB	(AB)
E11a	9610	6-7	1910	Fri	618/32 14623 04978 02717 ... 57467 04961 86005 (message repeated) Out. No "Attention"	USB	(AB)
E11a	15795	8-7	1625	Sun	974/34 43139 47292 00987 ... 51482 31904 29606 (message repeated) Out. No "Attention"	USB	(AB-G/MPJ)
E11a	9610	8-7	1910	Sun	618/32 14623 04978 02717 ... 57467 04961 86005 (message repeated) Out. No "Attention"	USB	(AB/MPJ)
E11a	9130	8-7	2005	Sun	363/39 42798 39917 77116 ... 29001 32353 85301 (message repeated) Out. No "Attention"	USB	(AB)
E11a	13537	9-7	1225	Mon	527/38 36152 51863 54547 ... 83463 67259 37935 (message repeated) Out. No "Attention"	USB	(AB/MPJ)
E11a	12202	10-7	0845	Tue	154/20 Attention 11085 55038 74731 ... 95721 87056 01865 Attention (message repeated) Out	USB	(AB)
E11	15720	11-7	0745	Wed	340/00	USB	(AB)
E11a	7984	11-7	1730	Wed	403/39 65212 61400 93281 ... 70808 06992 46785 (message repeated) Out. No "Attention"	USB	(AB/MPJ)
E11a	12202	12-7	0845	Thu	154/20 Attention 11085 55038 74731 ... 95721 87056 01865 Attention (message repeated) Out	USB	(AB)
E11a	11581	12-7	1300	Thu	583/33 39430 20799 98110 ... 58038 66314 77736 (message repeated) Out. No "Attention"	USB	(AB)
E11	11581	12-7	1925	Thu	553/00	USB	(GHn)
E11a	13537	13-7	1225	Fri	527/38 36152 51863 54547 ... 83463 67259 37935 (message repeated) Out. No "Attention"	USB	(AB/MPJ)
E11a	9079	14-7	0805	Sat	315/31 13111 81501 55769 ... 68119 21735 94533 (message repeated) Out. No "Attention"	USB	(AB)
E11a	11581	14-7	1300	Sat	583/33 39430 20799 98110 ... 58038 66314 77736 (message repeated) Out. No "Attention"	USB	(MPJ)
E11a	7984	14-7	1730	Sat	403/39 65212 61400 93281 ... 70808 06992 46785 (message repeated) Out. No "Attention"	USB	(AB)
E11	9610	15-7	1910	Sun	616/00	USB	(MPJ)
E11	9130	15-7	2005	Sun	366/00	USB	(AB)
E11a	7469	16-7	0450	Mon	414/33 Attention 34989 72090 68208 ... 75382 47200 19619 Attention (message repeated) Out	USB	(AB)
E11a	8545	16-7	1045	Mon	693/30 Attention 14470 76937 02808 ... 75220 95872 06989 Attention (message repeated) Out	USB	(AB)
E11a	7600	16-7	1900	Mon	646/38 96867 88677 56181 ... 95715 72410 04411 (message repeated) Out. No "Attention"	USB	(AB/MPJ/skx)
E11a	13424	17-7	0645	Tue	515/35 Attention 03715 43616 19070 ... 78210 94709 93115 Attention (message repeated) Out	USB	(AB)
E11a	15825	17-7	1345	Tue	910/36 38963 70751 30073 ... 65447 21936 71350 (message repeated) Out. No "Attention"	USB	(AB-G/MPJ)
E11a	4783	17-7	1605	Tue	237/32 35027 04520 29852 ... 21130 41418 89418 (message repeated) Out. No "Attention"	USB	(AB/MPJ-HOL)
E11a	8545	18-7	1045	Wed	693/30 Attention 14470 76937 02808 ... 75220 95872 06989 Attention (message repeated) Out	USB	(AB)
E11a	13424	19-7	0645	Thu	515/35 Attention 03715 43616 19070 ... 78210 94709 93115 Attention (message repeated) Out	USB	(AB)
E11	12202	19-7	0845	Thu	150/00	USB	(AB)
E11a	7600	19-7	1900	Thu	646/38 96867 88677 56181 ... 95715 72410 04411 (message repeated) Out. No "Attention"	USB	(AB/MPJ)
E11a	14940	20-7	1650	Fri	929/37 76450 26797 74324 ... 78215 24147 35878. Rpts Out	USB	(MPJ)
E11a	6480	21-7	0710	Sat	496/32 25391 67999 60114 ... 28500 89369 38703 (message repeated) Out. No "Attention"	USB	(AB)
E11a	15825	21-7	1345	Sat	910/36 38963 70751 30073 ... 65447 21936 71350 (message repeated) Out. No "Attention"	USB	(AB/MPJ)
E11a	6480	22-7	0710	Sun	496/32 25391 67999 60114 ... 28500 89369 38703 (message repeated) Out. No "Attention"	USB	(AB)

E11a	4783	22-7	1605	Sun	237/32 35027 04520 29852 ... 21130 41418 89418 (message repeated) Out. No "Attention"	USB	(AB/MPJ)
E11a	14940	22-7	1650	Sun	929/37 76450 26797 74324 ... 78215 24147 35878. Rpts. Out	USB	(MPJ)
E11	9130	22-7	2005	Sun	365/00	USB	(AB)
E11a	15800	23-7	0640	Mon	942/29 57547 50208 70738 ... 64347 94427 69667 (message repeated) Out. No "Attention"	USB	(AB)
E11a	14410	23-7	1745	Mon	249/31 27840 37802 26692 ... 26403 15367 65740 (message repeated) Out. No "Attention"	USB	(AB/MPJ)
E11	7600	23-7	1900	Mon	644/00	USB	(AB/MPJ)
E11a	15800	25-7	0640	Wed	942/29 57547 50208 70738 ... 64347 94427 69667 (message repeated) Out. No "Attention"	USB	(AB-G)
E11a	17378	25-7	0820	Wed	138/37 Attention 26508 06954 40888 ... 41442 12426 05845 Attention (message repeated) Out	USB	(AB-G)
E11a	6304	25-7	0930	Wed	271/36 Attention 90197 74676 27738 ... 37125 42027 51139 Attention (message repeated) Out	USB	(AB)
E11a	14865	25-7	1705	Wed	391/33 27747 17929 12465 ... 49865 85004 32763 (message repeated) Out. No "Attention"	USB	(AB/MPJ)
E11a	6304	26-7	0930	Thu	271/36 Attention 90197 74676 27738 ... 37125 42027 51139 Attention (message repeated) Out	USB	(AB)
E11a	14575	26-7	1645	Thu	331/31 79931 53023 01634 ... 51372 45936 80275 (message repeated) Out. No "Attention"	USB	(AB-G/MPJ)
E11a	10429	27-7	0715	Fri	639/37 Attention 45424 18060 55017 ... 00531 61255 95060 Attention (message repeated) Out	USB	(AB-IRL)
E11a	14865	28-7	1705	Sat	391/33 27747 17929 12465 ... 49865 85004 32763 (message repeated) Out. No "Attention"	USB	(AB/MPJ)
E11a	14410	29-7	1745	Sun	249/31 27840 37802 26692 ... 26403 15367 65740 (message repeated) Out. No "Attention"	USB	(MPJ)
E11	13424	31-7	0645	Tue	517/00	USB	(AB)
E11a	10429	31-7	0715	Tue	No id/group count. Attention 13402 21203 40821 ... 52215 86142 43516 Attention (message re- peated) Out	USB	(AB-G/Avare)
E11	4783	31-7	1605	Tue	337/00	USB	(MPJ-I)
E17z	16780	5-7	0800	Thu	674 829 5 46062 68672 97478 39685 30485 829 5 00000	USB	(AB)
E17z	12850	5-7	0810	Thu	674 829 5 46062 68672 97478 39685 30485 829 5 00000	USB	(AB)
E17z	16780	12-7	0800	Thu	674 829 5 46062 68672 97478 39685 30485 829 5 00000	USB	(AB)
E17z	12850	12-7	0810	Thu	674 829 5 46062 68672 97478 39685 30485 829 5 00000	USB	(AB)
E17z	16780	19-7	0800	Thu	674 802 5 32537 42983 35751 35375 57176 802 5 00000	USB	(AB)
E17z	12850	19-7	0810	Thu	674 802 5 32537 42983 35751 35375 57176 802 5 00000	USB	(AB)
E17z	16780	26-7	0800	Thu	674 802 5 32537 42983 35751 35375 57176 802 5 00000	USB	(AB)
E17z	12850	26-7	0810	Thu	674 802 5 32537 42983 35751 35375 57176 802 5 00000	USB	(AB)
EGY	9067.7	15-7	0942	Sun	MFA Cairo clg XBVBX: Egyptian embassy Bucharest	SITOR-A 100/170	(AB)
F01	14829	4-7	1840	Wed	Russian diplo/intel.)576 100000+++++++162	FSK 200/500	(AB/MPJ)
F01	14829	4-7	1840	Wed	FSK 200/500 6 55	FSK 200/500	(HFD)
F01	12214	4-7	1850	Wed	Russian diplo/intel.)576 100000+++++++162	FSK 200/500	(AB/MPJ)
F01	12214	4-7	1850	Wed	FSK 200/500	FSK 200/500	(HFD)
F01	10932	4-7	1900	Wed	FSK 200/500	FSK 200/500	(HFD)
F01	10932	4-7	1900	Wed	Russian diplo/intel.)576 100000+++++++162	FSK 200/500	(AB/MPJ)
F01	14421	13-7	0100	Fri	Russian diplo/intel. 74276 37673 46194 91274 08647 88790 ... 82406 79378 24575	FSK 200/500	(AB-RUS)
F03a	8423	2-7	1030	Mon	Polish Intel.	FSK 100/200	(AB)
F03a	8423	2-7	1035	Mon	Polish Intel.	FSK 100/200	(AB)
F03a	6304	2-7	1830	Mon	Polish Intel.	FSK 100/200	(AB)
F03a	6304	2-7	1835	Mon	Polish Intel.	FSK 100/200	(AB)
F03a	12385	3-7	0835	Tue	Polish Intel.	FSK 100/200	(AB)

F03a	12385	3-7	0840	Tue	Polish Intel.	FSK 100/200	(AB)
F03a	11531	3-7	0945	Tue	Polish Intel.	FSK 100/200	(AB)
F03a	11531	3-7	0950	Tue	Polish Intel.	FSK 100/200	(AB)
F03a	12385	3-7	1800	Tue	Polish Intel.	FSK 100/200	(AB)
F03a	12385	3-7	1805	Tue	Polish Intel.	FSK 100/200	(AB)
F03a	8423	4-7	1030	Wed	Polish Intel.	FSK 100/200	(AB)
F03a	8423	4-7	1035	Wed	Polish Intel.	FSK 100/200	(AB)
F03a	12385	5-7	0835	Thu	Polish Intel.	FSK 100/200	(AB)
F03a	12385	5-7	0840	Thu	Polish Intel.	FSK 100/200	(AB)
F03a	12385	5-7	1800	Thu	Polish Intel.	FSK 100/200	(AB/MPJ)
F03a	12385	5-7	1805	Thu	Polish Intel.	FSK 100/200	(AB/MPJ)
F03a	6304	5-7	1830	Thu	Polish Intel.	FSK 100/200	(AB)
F03a	6304	5-7	1835	Thu	Polish Intel.	FSK 100/200	(AB)
F03a	11531	6-7	0945	Fri	Polish Intel.	FSK 100/200	(AB)
F03a	11531	6-7	0950	Fri	Polish Intel.	FSK 100/200	(AB)
F03a	8423	9-7	1030	Mon	Polish Intel.	FSK 100/200	(AB)
F03a	8423	9-7	1035	Mon	Polish Intel.	FSK 100/200	(AB)
F03a	6304	9-7	1830	Mon	Polish Intel.	FSK 100/200	(AB/MPJ)
F03a	6304	9-7	1835	Mon	Polish Intel.	FSK 100/200	(AB/MPJ)
F03a	12385	10-7	0835	Tue	Polish Intel.	FSK 100/200	(AB)
F03a	12385	10-7	0840	Tue	Polish Intel.	FSK 100/200	(AB)
F03a	11531	10-7	0945	Tue	Polish Intel.	FSK 100/200	(AB)
F03a	11531	10-7	0950	Tue	Polish Intel.	FSK 100/200	(AB)
F03a	8423	11-7	1030	Wed	Polish Intel.	FSK 100/200	(AB/MPJ)
F03a	8423	11-7	1035	Wed	Polish Intel.	FSK 100/200	(AB/MPJ)
F03a	12385	12-7	0835	Thu	Polish Intel.	FSK 100/200	(AB)
F03a	12385	12-7	0840	Thu	Polish Intel.	FSK 100/200	(AB)
F03a	12385	12-7	1800	Thu	Polish Intel.	FSK 100/200	(AB)
F03a	12385	12-7	1805	Thu	Polish Intel.	FSK 100/200	(AB/MPJ)
F03a	11531	13-7	0945	Fri	Polish Intel.	FSK 100/200	(AB)
F03a	11531	13-7	0950	Fri	Polish Intel.	FSK 100/200	(AB)
F03a	8423	16-7	1030	Mon	Polish Intel.	FSK 100/200	(AB)
F03a	8423	16-7	1035	Mon	Polish Intel.	FSK 100/200	(AB)
F03a	6304	16-7	1830	Mon	Polish Intel.	FSK 100/200	(AB/MPJ)
F03a	6304	16-7	1835	Mon	Polish Intel.	FSK 100/200	(AB/MPJ)
F03a	12385	17-7	0835	Tue	Polish Intel.	FSK 100/200	(AB)
F03a	12385	17-7	0840	Tue	Polish Intel.	FSK 100/200	(AB)
F03a	11531	17-7	0945	Tue	Polish Intel.	FSK 100/200	(AB)
F03a	11531	17-7	0950	Tue	Polish Intel.	FSK 100/200	(AB)
F03a	12385	17-7	1800	Tue	Polish Intel.	FSK 100/200	(AB)

F03a	12385	17-7	1805	Tue	Polish Intel.	FSK 100/200	(AB)
F03a	8423	18-7	1030	Wed	Polish Intel.	FSK 100/200	(AB)
F03a	8423	18-7	1035	Wed	Polish Intel.	FSK 100/200	(AB)
F03a	12385	19-7	0835	Thu	Polish Intel.	FSK 100/200	(AB)
F03a	12385	19-7	0840	Thu	Polish Intel.	FSK 100/200	(AB)
F03a	12385	19-7	1800	Thu	Polish Intel.	FSK 100/200	(AB)
F03a	12385	19-7	1805	Thu	Polish Intel.	FSK 100/200	(AB)
F03a	6304	19-7	1830	Thu	Polish Intel.	FSK 100/200	(AB/MPJ)
F03a	6304	19-7	1835	Thu	Polish Intel.	FSK 100/200	(AB/MPJ)
F03a	11531	20-7	0945	Fri	Polish Intel.	FSK 100/200	(AB)
F03a	11531	20-7	0950	Fri	Polish Intel.	FSK 100/200	(AB)
F03a	8423	23-7	1030	Mon	Polish Intel.	FSK 100/200	(AB)
F03a	8423	23-7	1035	Mon	Polish Intel.	FSK 100/200	(AB)
F03a	6304	23-7	1830	Mon	Polish Intel.	FSK 100/200	(AB/MPJ)
F03a	6304	23-7	1835	Mon	Polish Intel.	FSK 100/200	(AB/MPJ)
F03a	12385	24-7	1800	Tue	Polish Intel.	FSK 100/200	(AB)
F03a	12385	24-7	1805	Tue	Polish Intel.	FSK 100/200	(AB)
F03a	8423	25-7	1030	Wed	Polish Intel.	FSK 100/200	(AB/MPJ)
F03a	8423	25-7	1035	Wed	Polish Intel.	FSK 100/200	(AB/MPJ)
F03a	12385	26-7	0835	Thu	Polish Intel.	FSK 100/200	(AB)
F03a	12385	26-7	0840	Thu	Polish Intel.	FSK 100/200	(AB)
F03a	12385	26-7	1800	Thu	Polish Intel.	FSK 100/200	(AB)
F03a	12385	26-7	1805	Thu	Polish Intel.	FSK 100/200	(AB)
F03a	6304	26-7	1830	Thu	Polish Intel.	FSK 100/200	(AB/MPJ)
F03a	6304	26-7	1835	Thu	Polish Intel.	FSK 100/200	(AB/MPJ)
F03a	11531	27-7	0945	Fri	Polish Intel.	FSK 100/200	(AB)
F03a	11531	27-7	0950	Fri	Polish Intel.	FSK 100/200	(AB)
F03a	8423	30-7	1030	Mon	Polish Intel.	FSK 100/200	(AB)
F03a	8423	30-7	1035	Mon	Polish Intel.	FSK 100/200	(AB)
F03a	6304	30-7	1830	Mon	Polish Intel.	FSK 100/200	(AB)
F03a	6304	30-7	1835	Mon	Polish Intel.	FSK 100/200	(AB)
F03a	12385	31-7	0835	Tue	Polish Intel.	FSK 100/200	(AB)
F03a	12385	31-7	0840	Tue	Polish Intel.	FSK 100/200	(AB)
F03a	11531	31-7	0945	Tue	Polish Intel.	FSK 100/200	(AB)
F03a	11531	31-7	0950	Tue	Polish Intel.	FSK 100/200	(AB)
F03a	12385	31-7	1800	Tue	Polish Intel.	FSK 100/200	(AB)
F03a	12385	31-7	1805	Tue	Polish Intel.	FSK 100/200	(AB)
F03b	7670	5-7	0915	Thu	Polish Intel.	FSK 200/400	(AB)
F03b	7670	5-7	0920	Thu	Polish Intel.	FSK 200/400	(AB)
F03b	7670	12-7	0915	Thu	Polish Intel.	FSK 200/400	(AB)

F03b	7670	12-7	0920	Thu	Polish Intel.		FSK 200/400	(AB)
F03b	7670	18-7	0915	Wed	Polish Intel.		FSK 200/400	(AB)
F03b	7670	18-7	0920	Wed	Polish Intel.		FSK 200/400	(AB)
F03b	7670	19-7	0915	Thu	Polish Intel.		FSK 200/400	(AB)
F03b	7670	19-7	0920	Thu	Polish Intel.		FSK 200/400	(AB)
F03b	7670	25-7	0915	Wed	Polish Intel.		FSK 200/400	(AB)
F03b	7670	25-7	0920	Wed	Polish Intel.		FSK 200/400	(AB)
F03b	7670	25-7	0920	Wed	Polish Intel.		FSK 200/400	(AB)
F03b	7670	26-7	0915	Thu	Polish Intel.		FSK 200/400	(AB)
F03c	10210	9-7	0940	Mon	Polish Intel.		FSK 400/960	(AB)
F03c	10210	9-7	0945	Mon	Polish Intel.		FSK 400/960	(AB)
F03c	10210	16-7	0940	Mon	Polish Intel.		FSK 400/960	(AB)
F03c	10210	16-7	0945	Mon	Polish Intel.		FSK 400/960	(AB)
F03c	10210	23-7	0940	Mon	Polish Intel.		FSK 400/960	(AB)
F03c	10210	23-7	0945	Mon	Polish Intel.		FSK 400/960	(AB)
F03c	10210	30-7	0940	Mon	Polish Intel.		FSK 400/960	(AB)
F03c	10210	30-7	0945	Mon	Polish Intel.		FSK 400/960	(AB)
F06	19466	1-7	1530	Sun	Russian diplo/intel. 11166 10053 13579 01001 00049 00000 00000 00000 00000		FSK 100/2000	(AB-RUS/MPJ)
F06	16189	1-7	1540	Sun	Russian diplo/intel. 11166 10053 13579 01001 00049 00000 00000 00000 00000		FSK 100/2000	(AB-RUS/MPJ)
F06	13576	1-7	1550	Sun	Russian diplo/intel. 11166 10053 13579 01001 00049 00000 00000 00000 00000		FSK 100/2000	(AB/MPJ)
F06	11049	2-7	0400	Mon	Russian diplo/intel. 11166 10053 13579 01001 00049 00000 00000 00000 00000		FSK 100/2000	(AB)
F06	9126	2-7	0410	Mon	Russian diplo/intel. 11166 10053 13579 01001 00049 00000 00000 00000 00000		FSK 100/2000	(AB)
F06	8137	2-7	0420	Mon	Russian diplo/intel. 11166 10053 13579 01001 00049 00000 00000 00000 00000		FSK 100/2000	(AB)
F06	19535	3-7	1650	Tue	Russian diplo/intel. 11166 10053 15987 03068 00049 00000 00000 00000 00000		FSK 100/2000	(AB-RUS/MPJ-RUS)
F06	16348	3-7	1700	Tue	Russian diplo/intel. 11166 10053 15987 03068 00049 00000 00000 00000 00000		FSK 100/2000	(AB-RUS/MPJ-RUS)
F06	13588	3-7	1710	Tue	Russian diplo/intel. 11166 10053 15987 03068 00049 00000 00000 00000 00000		FSK 100/2000	(AB/MPJ-RUS)
F06	13994	4-7	0800	Wed	Russian diplo/intel. 11166 70048 48713 04043 00049 00000 00000 00000 00000		FSK 100/2000	(AB)
F06	12058	4-7	0810	Wed	Russian diplo/intel. 11166 70048 48713 04043 00049 00000 00000 00000 00000		FSK 100/2000	(AB)
F06	10174	4-7	0820	Wed	Russian diplo/intel. 11166 70048 48713 04043 00049 00000 00000 00000 00000		FSK 100/2000	(AB)
F06	13184	5-7	1330	Thu	Russian diplo/intel. 11166 80214 15842 05062 00049 00000 00000 00000 00000		FSK 100/2000	(AB/MPJ)
F06	11643	5-7	1340	Thu	Russian diplo/intel. 11166 80214 15842 05062 00049 00000 00000 00000 00000		FSK 100/2000	(AB/MPJ)
F06	9925	5-7	1350	Thu	Russian diplo/intel. 11166 80214 15842 05062 00049 00000 00000 00000 00000		FSK 100/2000	(AB/MPJ)
F06	13363	7-7	1100	Sat	Russian diplo/intel. Header: 11166 50046 65493 06045 00729		FSK 100/2000	(AB)
F06	11404	7-7	1110	Sat	Russian diplo/intel. Header: 11166 50046 65493 06045 00729		FSK 100/2000	(AB)
F06	9299	7-7	1120	Sat	Russian diplo/intel. Header: 11166 50046 65493 06045 00729		FSK 100/2000	(AB)
F06	17436	7-7	2100	Sat	Russian diplo/intel. 11166 40133 13579 07001 00049 00000 00000 00000 00000		FSK 100/2000	(AB)
F06	15789	7-7	2110	Sat	Russian diplo/intel. 11166 40133 13579 07001 00049 00000 00000 00000 00000		FSK 100/2000	(AB)
F06	13473	7-7	2120	Sat	Russian diplo/intel. 11166 40133 13579 07001 00049 00000 00000 00000 00000		FSK 100/2000	(AB)
F06	13363	8-7	1100	Sun	Russian diplo/intel. Header: 11166 50046 65493 06045 00729		FSK 100/2000	(AB)
F06	11404	8-7	1110	Sun	Russian diplo/intel. Header: 11166 50046 65493 06045 00729		FSK 100/2000	(AB)

F06	9299	8-7	1120	Sun	Russian diplo/intel. Header: 11166 50046 65493 06045 00729	FSK 100/2000	(AB)
F06	19466	8-7	1530	Sun	Russian diplo/intel. 11166 10053 13579 08064 00049 00000 00000 00000 00000	FSK 100/2000	(AB-RUS/MPJ)
F06	16189	8-7	1540	Sun	Russian diplo/intel. 11166 10053 13579 08064 00049 00000 00000 00000 00000	FSK 100/2000	(AB/MPJ)
F06	13576	8-7	1550	Sun	Russian diplo/intel. 11166 10053 13579 08064 00049 00000 00000 00000 00000	FSK 100/2000	(AB/MPJ)
F06	19535	10-7	1650	Tue	Russian diplo/intel. 11166 10053 13579 10001 00049 00000 00000 00000 00000	FSK 100/2000	(MPJ-RUS)
F06	16348	10-7	1700	Tue	Russian diplo/intel. 11166 10053 13579 10001 00049 00000 00000 00000 00000	FSK 100/2000	(MPJ-RUS)
F06	13588	10-7	1710	Tue	Russian diplo/intel. 11166 10053 13579 10001 00049 00000 00000 00000 00000	FSK 100/2000	(MPJ-RUS/RL)
F06	17419	11-7	0600	Wed	Russian diplo/intel. Headers: 11166 40122 43682 07082 03049 and 11166 40122 24681 07083 02329	FSK 100/2000	(Danix-RUS)
F06	15707	11-7	0610	Wed	Russian diplo/intel. Headers: 11166 40122 43682 07082 03049 and 11166 40122 24681 07083 02329	FSK 100/2000	(Danix-RUS)
F06	13446	11-7	0620	Wed	Russian diplo/intel. Headers: 11166 40122 43682 07082 03049 and 11166 40122 24681 07083 02329	FSK 100/2000	(Danix-RUS)
F06	13994	11-7	0800	Wed	Russian diplo/intel. 11166 70048 48713 11056 00049 00000 00000 00000 00000	FSK 100/2000	(AB/Danix)
F06	15634	11-7	0800	Wed	Russian diplo/intel. Header: 11166 00052 19534 10030 02149	FSK 100/2000	(Danix)
F06	12058	11-7	0810	Wed	Russian diplo/intel. 11166 70048 48713 11056 00049 00000 00000 00000 00000	FSK 100/2000	(AB/Danix)
F06	13596	11-7	0810	Wed	Russian diplo/intel. Header: 11166 00052 19534 10030 02149	FSK 100/2000	(Danix)
F06	10174	11-7	0820	Wed	Russian diplo/intel. 11166 70048 48713 11056 00049 00000 00000 00000 00000	FSK 100/2000	(AB/Danix)
F06	11466	11-7	0820	Wed	Russian diplo/intel. Header: 11166 00052 19534 10030 02149	FSK 100/2000	(Danix)
F06	14948	11-7	0915	Wed	Russian diplo/intel. 11166 10031 24680 11026 00049 00000 00000 00000 00000	FSK 100/2000	(AB)
F06	12176	11-7	0925	Wed	Russian diplo/intel. 11166 10031 24680 11026 00049 00000 00000 00000 00000	FSK 100/2000	(AB)
F06	10177	11-7	0935	Wed	Russian diplo/intel. 11166 10031 24680 11026 00049 00000 00000 00000 00000	FSK 100/2000	(AB)
F06	17419	12-7	0600	Thu	Russian diplo/intel. Headers: 11166 40122 43682 07082 03049 and 11166 40122 24681 07083 02329	FSK 100/2000	(AB-RUS)
F06	15707	12-7	0610	Thu	Russian diplo/intel. Headers: 11166 40122 43682 07082 03049 and 11166 40122 24681 07083 02329	FSK 100/2000	(AB-RUS)
F06	13446	12-7	0620	Thu	Russian diplo/intel. Headers: 11166 40122 43682 07082 03049 and 11166 40122 24681 07083 02329	FSK 100/2000	(AB-RUS)
F06	15634	12-7	0800	Thu	Russian diplo/intel. Header: 11166 00052 19534 10030 02149	FSK 100/2000	(AB)
F06	13596	12-7	0810	Thu	Russian diplo/intel. Header: 11166 00052 19534 10030 02149	FSK 100/2000	(AB)
F06	11466	12-7	0820	Thu	Russian diplo/intel. Header: 11166 00052 19534 10030 02149	FSK 100/2000	(AB)
F06	13184	12-7	1320	Thu	Russian diplo/intel. Test: 464646464646464646464646464646	FSK 100/2000	(AB)
F06	13184	12-7	1330	Thu	Russian diplo/intel. 11166 80214 12345 12063 00049 00000 00000 00000 00000 00000	FSK 100/2000	(AB/MPJ)
F06	11643	12-7	1340	Thu	Russian diplo/intel. 11166 80214 12345 12063 00049 00000 00000 00000 00000 00000	FSK 100/2000	(AB/MPJ)
F06	9925	12-7	1350	Thu	Russian diplo/intel. 11166 80214 12345 12063 00049 00000 00000 00000 00000 00000	FSK 100/2000	(AB/MPJ)
F06	16321	13-7	0200	Fri	Russian diplo/intel. Header: 11166 60146 00000 13125 02459	FSK 200/500	(AB-J)
F06	11646	14-7	0800	Sat	Russian diplo/intel. Header: 11166 70147 91735 13085 00809	FSK 100/2000	(AB)
F06	9479	14-7	0810	Sat	Russian diplo/intel. Header: 11166 70147 91735 13085 00809	FSK 100/2000	(AB)
F06	7609	14-7	0820	Sat	Russian diplo/intel. Header: 11166 70147 91735 13085 00809	FSK 100/2000	(AB)
F06	16089	14-7	0850	Sat	Russian diplo/intel. Test: 46		

F06	9299	14-7	1120	Sat	Russian diplo/intel. Header: 11166 50046 83514 13046 01369	FSK 100/2000	(AB/MPJ)
F06	17436	14-7	2100	Sat	Russian diplo/intel. 11166 40133 15397 14038 00049 00000 00000 00000 00000	FSK 100/2000	(AB)
F06	15789	14-7	2110	Sat	Russian diplo/intel. 11166 40133 15397 14038 00049 00000 00000 00000 00000	FSK 100/2000	(AB)
F06	13473	14-7	2120	Sat	Russian diplo/intel. 11166 40133 15397 14038 00049 00000 00000 00000 00000	FSK 100/2000	(AB)
F06	11646	15-7	0800	Sun	Russian diplo/intel. Header: 11166 70147 91735 13085 00809	FSK 100/2000	(AB)
F06	9479	15-7	0810	Sun	Russian diplo/intel. Header: 11166 70147 91735 13085 00809	FSK 100/2000	(AB)
F06	7609	15-7	0820	Sun	Russian diplo/intel. Header: 11166 70147 91735 13085 00809	FSK 100/2000	(AB)
F06	16089	15-7	0900	Sun	Russian diplo/intel. Header: 11166 70004 37592 13009 00559	FSK 100/2000	(AB)
F06	14384	15-7	0910	Sun	Russian diplo/intel. Header: 11166 70004 37592 13009 00559	FSK 100/2000	(AB)
F06	12173	15-7	0920	Sun	Russian diplo/intel. Header: 11166 70004 37592 13009 00559	FSK 100/2000	(AB)
F06	13363	15-7	1100	Sun	Russian diplo/intel. Header: 11166 50046 83514 13046 01369	FSK 100/2000	(AB/MPJ)
F06	11404	15-7	1110	Sun	Russian diplo/intel. Header: 11166 50046 83514 13046 01369	FSK 100/2000	(AB/MPJ)
F06	9299	15-7	1120	Sun	Russian diplo/intel. Header: 11166 50046 83514 13046 01369	FSK 100/2000	(AB/MPJ)
F06	19466	15-7	1530	Sun	Russian diplo/intel. 11166 10053 12345 15064 00049 00000 00000 00000 00000	FSK 100/2000	(AB-RUS/MPJ)
F06	16189	15-7	1540	Sun	Russian diplo/intel. 11166 10053 12345 15064 00049 00000 00000 00000 00000	FSK 100/2000	(AB-RUS/MPJ)
F06	13576	15-7	1550	Sun	Russian diplo/intel. 11166 10053 12345 15064 00049 00000 00000 00000 00000	FSK 100/2000	(AB/MPJ)
F06	11049	16-7	0400	Mon	Russian diplo/intel. 11166 70059 17935 16020 00049 00000 00000 00000 00000	FSK 100/2000	(AB)
F06	9126	16-7	0410	Mon	Russian diplo/intel. 11166 70059 17935 16020 00049 00000 00000 00000 00000	FSK 100/2000	(AB)
F06	8137	16-7	0420	Mon	Russian diplo/intel. 11166 70059 17935 16020 00049 00000 00000 00000 00000	FSK 100/2000	(AB)
F06	19535	17-7	1650	Tue	Russian diplo/intel. 11166 10053 45891 17068 00049 00000 00000 00000 00000	FSK 100/2000	(AB/MPJ)
F06	16348	17-7	1700	Tue	Russian diplo/intel. 11166 10053 45891 17068 00049 00000 00000 00000 00000	FSK 100/2000	(AB/MPJ)
F06	13588	17-7	1710	Tue	Russian diplo/intel. 11166 10053 45891 17068 00049 00000 00000 00000 00000	FSK 100/2000	(AB/MPJ)
F06	17419	18-7	0600	Wed	Russian diplo/intel. 11166 40122 82496 18094 00049 00000 00000 00000 00000	FSK 100/2000	(AB-RUS)
F06	15707	18-7	0610	Wed	Russian diplo/intel. 11166 40122 82496 18094 00049 00000 00000 00000 00000	FSK 100/2000	(AB-RUS)
F06	13446	18-7	0620	Wed	Russian diplo/intel. 11166 40122 82496 18094 00049 00000 00000 00000 00000	FSK 100/2000	(AB-RUS)
F06	13994	18-7	0800	Wed	Russian diplo/intel. 11166 70048 98451 18049 00049 00000 00000 00000 00000	FSK 100/2000	(AB)
F06	12058	18-7	0810	Wed	Russian diplo/intel. 11166 70048 98451 18049 00049 00000 00000 00000 00000	FSK 100/2000	(AB)
F06	10174	18-7	0820	Wed	Russian diplo/intel. 11166 70048 98451 18049 00049 00000 00000 00000 00000	FSK 100/2000	(AB)
F06	13184	19-7	1330	Thu	Russian diplo/intel. 11166 80214 56897 19095 00049 00000 00000 00000 00000	FSK 100/2000	(AB/MPJ)
F06	11643	19-7	1340	Thu	Russian diplo/intel. 11166 80214 56897 19095 00049 00000 00000 00000 00000	FSK 100/2000	(AB/MPJ)
F06	9925	19-7	1350	Thu	Russian diplo/intel. 11166 80214 56897 19095 00049 00000 00000 00000 00000	FSK 100/2000	(AB/MPJ)
F06	13363	21-7	1050	Sat	Russian diplo/intel. Test: 46		

F06	9299	22-7	1120	Sun	Russian diplo/intel. Header: 11166 50046 97538 19047 00449	FSK 100/2000	(AB/MPJ)
F06	19466	22-7	1530	Sun	Russian diplo/intel. 11166 10053 13579 22001 00049 00000 00000 00000 00000	FSK 100/2000	(AB-RUS)
F06	16189	22-7	1540	Sun	Russian diplo/intel. 11166 10053 13579 22001 00049 00000 00000 00000 00000	FSK 100/2000	(AB-RUS)
F06	13576	22-7	1550	Sun	Russian diplo/intel. 11166 10053 13579 22001 00049 00000 00000 00000 00000	FSK 100/2000	(AB-RUS)
F06	11438	24-7	0030	Tue	Russian diplo/intel. 11166 60070 35698 24074 00049 00000 00000 00000 00000	FSK 100/2000	(AB)
F06	9446	24-7	0040	Tue	Russian diplo/intel. 11166 60070 35698 24074 00049 00000 00000 00000 00000	FSK 100/2000	(AB)
F06	7939	24-7	0050	Tue	Russian diplo/intel. 11166 60070 35698 24074 00049 00000 00000 00000 00000	FSK 100/2000	(AB)
F06	13588	24-7	1650	Tue	Russian diplo/intel. 11166 10053 17935 24068 00049 00000 00000 00000 00000	FSK 200/1000	(MPJ/RL)
F06	16348	24-7	1650	Tue	Russian diplo/intel. 11166 10053 17935 24068 00049 00000 00000 00000 00000	FSK 200/1000	(MPJ/RL)
F06	19535	24-7	1650	Tue	Russian diplo/intel. 11166 10053 17935 24068 00049 00000 00000 00000 00000	FSK 200/1000	(MPJ/RL)
F06	17419	25-7	0600	Wed	Russian diplo/intel. Header: 11166 40122 58791 21084 03869	FSK 100/2000	(AB-RUS)
F06	15707	25-7	0610	Wed	Russian diplo/intel. Header: 11166 40122 58791 21084 03869	FSK 100/2000	(AB-RUS)
F06	13446	25-7	0620	Wed	Russian diplo/intel. Header: 11166 40122 58791 21084 03869	FSK 100/2000	(AB-RUS)
F06	15634	25-7	0750	Wed	Russian diplo/intel. Test: 46464646 46464646 46464646	FSK 100/2000	(AB)
F06	13994	25-7	0800	Wed	Russian diplo/intel. 11166 70048 59214 25036 00049 00000 00000 00000 00000	FSK 100/2000	(AB)
F06	15634	25-7	0800	Wed	Russian diplo/intel. Header: 11166 00052 19534 10030 02149	FSK 100/2000	(AB)
F06	12058	25-7	0810	Wed	Russian diplo/intel. 11166 70048 59214 25036 00049 00000 00000 00000 00000	FSK 100/2000	(AB)
F06	13596	25-7	0810	Wed	Russian diplo/intel. Header: 11166 00052 19534 10030 02149	FSK 100/2000	(AB)
F06	10174	25-7	0820	Wed	Russian diplo/intel. 11166 70048 59214 25036 00049 00000 00000 00000 00000	FSK 100/2000	(AB)
F06	11466	25-7	0820	Wed	Russian diplo/intel. Header: 11166 00052 19534 10030 02149	FSK 100/2000	(AB)
F06	14948	25-7	0915	Wed	Russian diplo/intel. 11166 10031 13579 25001 00049 00000 00000 00000 00000	FSK 100/2000	(AB)
F06	12176	25-7	0925	Wed	Russian diplo/intel. 11166 10031 13579 25001 00049 00000 00000 00000 00000	FSK 100/2000	(AB)
F06	10177	25-7	0935	Wed	Russian diplo/intel. 11166 10031 13579 25001 00049 00000 00000 00000 00000	FSK 100/2000	(AB)
F06	17419	26-7	0600	Thu	Russian diplo/intel. Header: 11166 40122 58791 21084 03869	FSK 100/2000	(AB-RUS)
F06	15707	26-7	0610	Thu	Russian diplo/intel. Header: 11166 40122 58791 21084 03869	FSK 100/2000	(AB-RUS)
F06	13446	26-7	0620	Thu	Russian diplo/intel. Header: 11166 40122 58791 21084 03869	FSK 100/2000	(AB-RUS)
F06	15634	26-7	0800	Thu	Russian diplo/intel. Header: 11166 00052 19534 10030 02149	FSK 100/2000	(AB)
F06	13596	26-7	0810	Thu	Russian diplo/intel. Header: 11166 00052 19534 10030 02149	FSK 100/2000	(AB)
F06	11466	26-7	0820	Thu	Russian diplo/intel. Header: 11166 00052 19534 10030 02149	FSK 100/2000	(AB)
F06	13184	26-7	1330	Thu	Russian diplo/intel. 11166 80214 45129 26016 00049 00000 00000 00000 00000	FSK 100/2000	(AB)
F06	11643	26-7	1340	Thu	Russian diplo/intel. 11166 80214 45129 26016 00049 00000 00000 00000 00000	FSK 100/2000	(AB)
F06	9925	26-7	1350	Thu	Russian diplo/intel. 11166 80214 45129 26016 00049 00000 00000 00000 00000	FSK 100/2000	(AB)
F06	11646	28-7	0800	Sat	Russian diplo/intel. Header: 11166 70147 98751 27086 03609	FSK 100/2000	(AB)
F06	9479	28-7	0810	Sat	Russian diplo/intel. Header: 11166 70147 98751 27086 03609	FSK 100/2000	(AB)
F06	7609	28-7	0820	Sat	Russian diplo/intel. Header: 11166 70147 98751 27086 03609	FSK 100/2000	(AB)
F06	16089	28-7	0900	Sat	Russian diplo/intel. Header: 11166 70004 37592 13009 00559	FSK 100/2000	(AB)
F06	14384	28-7	0910	Sat	Russian diplo/intel. Header: 11166 70004 37592 13009 00559	FSK 100/2000	(AB)
F06	12173	28-7	0920	Sat	Russian diplo/intel. Header: 11166 70004 37592 13009 00559	FSK 100/2000	(AB)
F06	13363	28-7	1100	Sat	Russian diplo/intel. Header: 11166 50046 36987 27048 02209	FSK 100/2000	(AB/MPJ)
F06	11404	28-7	1110	Sat	Russian diplo/intel. Header: 11166 50046 36987 27048 02209	FSK 100/2000	(AB/MPJ)

F06	9299	28-7	1120	Sat	Russian diplo/intel. Header: 11166 50046 36987 27048 02209	FSK 100/2000	(AB/MPJ)
F06	17436	28-7	2100	Sat	Russian diplo/intel. 11166 40133 13579 28001 00049 00000 00000 00000 00000	FSK 100/2000	(AB/RL)
F06	15789	28-7	2110	Sat	Russian diplo/intel. 11166 40133 13579 28001 00049 00000 00000 00000 00000	FSK 100/2000	(AB)
F06	13473	28-7	2120	Sat	Russian diplo/intel. 11166 40133 13579 28001 00049 00000 00000 00000 00000	FSK 100/2000	(AB)
F06	11646	29-7	0800	Sun	Russian diplo/intel. Header: 11166 70147 98751 27086 03609	FSK 100/2000	(AB)
F06	9479	29-7	0810	Sun	Russian diplo/intel. Header: 11166 70147 98751 27086 03609	FSK 100/2000	(AB)
F06	7609	29-7	0820	Sun	Russian diplo/intel. Header: 11166 70147 98751 27086 03609	FSK 100/2000	(AB)
F06	16089	29-7	0850	Sun	Russian diplo/intel. Test: 46464646464646464646464646464646	FSK 100/2000	(AB)
F06	16089	29-7	0900	Sun	Russian diplo/intel. Header: 11166 70004 37592 13009 00559	FSK 100/2000	(AB)
F06	14384	29-7	0910	Sun	Russian diplo/intel. Header: 11166 70004 37592 13009 00559	FSK 100/2000	(AB)
F06	12173	29-7	0920	Sun	Russian diplo/intel. Header: 11166 70004 37592 13009 00559	FSK 100/2000	(AB)
F06	13363	29-7	1050	Sun	Russian diplo/intel. Test: 46464646464646464646464646464646	FSK 100/2000	(AB)
F06	13363	29-7	1100	Sun	Russian diplo/intel. Header: 11166 50046 36987 27048 02209	FSK 100/2000	(AB/MPJ)
F06	11404	29-7	1110	Sun	Russian diplo/intel. Header: 11166 50046 36987 27048 02209	FSK 100/2000	(AB/MPJ)
F06	9299	29-7	1120	Sun	Russian diplo/intel. Header: 11166 50046 36987 27048 02209	FSK 100/2000	(AB/MPJ)
F06	19466	29-7	1530	Sun	Russian diplo/intel. 11166 10053 45698 29064 00049 00000 00000 00000 00000 00000	FSK 100/2000	(AB-RUS/MPJ-RUS)
F06	16189	29-7	1540	Sun	Russian diplo/intel. 11166 10053 45698 29064 00049 00000 00000 00000 00000 00000	FSK 100/2000	(AB-RUS/MPJ-RUS)
F06	13576	29-7	1550	Sun	Russian diplo/intel. 11166 10053 45698 29064 00049 00000 00000 00000 00000 00000	FSK 100/2000	(AB-RUS/MPJ-RUS)
F06	11438	31-7	0030	Tue	Russian diplo/intel. 11166 60070 56248 31001 00049 00000 00000 00000 00000	FSK 100/2000	(AB)
F06	9446	31-7	0040	Tue	Russian diplo/intel. 11166 60070 56248 31001 00049 00000 00000 00000 00000	FSK 100/2000	(AB)
F06	7939	31-7	0050	Tue	Russian diplo/intel. 11166 60070 56248 31001 00049 00000 00000 00000 00000	FSK 100/2000	(AB)
F06	19535	31-7	1650	Tue	Russian diplo/intel. 11166 10053 13579 31001 00049 00000 00000 00000 00000	FSK 100/2000	(AB/MPJ)
F06	16348	31-7	1700	Tue	Russian diplo/intel. 11166 10053 13579 31001 00049 00000 00000 00000 00000	FSK 100/2000	(AB/MPJ)
F06	13588	31-7	1710	Tue	Russian diplo/intel. 11166 10053 13579 31001 00049 00000 00000 00000 00000	FSK 100/2000	(AB/MPJ)
F11	13424	2-7	0845	Mon	0353 0353 0353 0353 0353 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/620	(AB)
F11	13424	2-7	0850	Mon	0353 0353 0353 0353 0353 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/620	(AB)
F11	6280	3-7	1150	Tue	0325 88888 88888 28444 70826 94778 ... 01508 20552 97996 88888 88888 00036 00036	FSK 100/620	(AB-AUT)
F11	6280	3-7	1155	Tue	0325 88888 88888 28444 70826 94778 ... 01508 20552 97996 88888 88888 00036 00036	FSK 100/620	(AB-AUT)
F11	13424	4-7	0845	Wed	0353 0353 0353 0353 0353 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/620	(AB)
F11	13424	4-7	0850	Wed	0353 0353 0353 0353 0353 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/620	(AB)
F11	6280	4-7	1150	Wed	0325 88888 88888 28444 70826 94778 ... 01508 20552 97996 88888 88888 00036 00036	FSK 100/620	(AB-AUT/MPJ)
F11	6280	4-7	1155	Wed	0325 88888 88888 28444 70826 94778 ... 01508 20552 97996 88888 88888 00036 00036	FSK 100/620	(AB-AUT/MPJ)
F11	13424	9-7	0845	Mon	88888 88888 16756 29986 74343 ... 83707 56692 05681 88888 88888 00044 00044	FSK 100/620	(AB)
F11	13424	9-7	0850	Mon	88888 88888 16756 29986 74343 ... 83707 56692 05681 88888 88888 00044 00044	FSK 100/620	(AB)
F11	6280	10-7	1150	Tue	0325 0325 0325 0325 0325 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/620	(AB-AUT/MPJ)
F11	6280	10-7	1155	Tue	0325 0325 0325 0325 0325 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/620	(AB-AUT/MPJ)
F11	13424	11-7	0845	Wed	88888 88888 16756 29986 74343 ... 83707 56692 05681 88888 88888 00044 00044	FSK 100/620	(AB)
F11	13424	11-7	0850	Wed	88888 88888 16756 29986 74343 ... 83707 56692 05681 88888 88888 00044 00044	FSK 100/620	(AB)
F11	6280	11-7	1150	Wed	0325 0325 0325 0325 0325 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/620	(AB-AUT/MPJ)
F11	6280	11-7	1155	Wed	0325 0325 0325 0325 0325 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/620	(AB-AUT/MPJ)

F11	13424	16-7	0845	Mon	0353 0353 0353 0353 0353 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/620	(AB)
F11	13424	16-7	0850	Mon	0353 0353 0353 0353 0353 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/620	(AB)
F11	6280	17-7	1150	Tue	0325 0325 0325 0325 0325 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/620	(AB/MPJ-I)
F11	6280	17-7	1155	Tue	0325 0325 0325 0325 0325 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/620	(AB/MPJ-I)
F11	13424	18-7	0845	Wed	0353 0353 0353 0353 0353 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/620	(AB)
F11	13424	18-7	0850	Wed	0353 0353 0353 0353 0353 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/620	(AB)
F11	6280	18-7	1150	Wed	0325 0325 0325 0325 0325 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/620	(AB)
F11	6280	18-7	1155	Wed	0325 0325 0325 0325 0325 00000 00000 00 000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/620	(AB)
F11	13424	23-7	0845	Mon	0353 0353 0353 0353 0353 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/620	(AB)
F11	13424	23-7	0850	Mon	0353 0353 0353 0353 0353 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/620	(AB)
F11	6280	24-7	1155	Tue	0325 0325 0325 0325 0325 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/620	(MPJ)
F11	13424	25-7	0845	Wed	0353 0353 0353 0353 0353 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/620	(AB)
F11	13424	25-7	0850	Wed	0353 0353 0353 0353 0353 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/620	(AB)
F11	6280	25-7	1150	Wed	0325 0325 0325 0325 0325 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/620	(AB/MPJ)
F11	6280	25-7	1155	Wed	0325 0325 0325 0325 0325 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/620	(AB/MPJ)
F11	13424	30-7	0845	Mon	0353 0353 0353 0353 0353 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/620	(AB)
F11	13424	30-7	0850	Mon	Not the repeat of the null message but a new message was sent: 0353 88888 88888 16756 29986 74343 ... 83707 56692 05681 88888 88888 00044 00044	FSK 100/620	(AB)
F11	6280	31-7	1150	Tue	0325 0325 0325 0325 0325 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/620	(MPJ)
F11	6280	31-7	1155	Tue	0325 0325 0325 0325 0325 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/620	(MPJ)
G06	7320	2-7	0800	Mon	329 329 329 00000	USB	(AB)
G06	5287	2-7	1658	Mon	938 0	USB	(HFD)
G06	5287	2-7	1659	Mon	938 938 938 00000	USB	(AB/MPJ/HFD)
G06	4935	2-7	1759	Mon	938 938 938 00000	USB	(AB/MPJ/HFD)
G06	4935	2-7	1800	Mon	938 0	USB	(HFD)
G06	6978	4-7	1159	Wed	938 0	USB	(HFD)
G06	6978	4-7	1200	Wed	938 938 938 00000	USB	(MPJ/HFD)
G06	7423	4-7	1258	Wed	938 0	USB	(HFD)
G06	7423	4-7	1300	Wed	938 938 938 00000	USB	(AB/MPJ/HFD)
G06	5287	9-7	1658	Mon	938 938 938 00000 Early start	USB	(AB/MPJ)
G06	5287	9-7	1704	Mon	111 111 111 00000	USB	(AB)
G06	5287	9-7	1710	Mon	111 111 111 00000	USB	(AB)
G06	4935	9-7	1759	Mon	938 938 938 00000 Early start	USB	(AB/MPJ)
G06	6975	11-7	1158	Wed	938 938 938 00000 Early start	USB	(AB)
G06	7423	11-7	1241	Wed	11	USB	(AB)
G06	7423	11-7	1258	Wed	938 938 938 00000 Early start	USB	(AB/MPJ)
G06	6887	12-7	1830	Thu	842 273 62 64537 27364 28374 ... 64612 84759 76491 273 62 00000	USB	(MPJ)
G06	5943	13-7	1930	Fri	218 273 62 64537 27364 28374 ... 64612 84759 76491 273 62 00000	USB	(AB)
G06	7320	16-7	0713	Mon	111 111 111 00000	USB	(AB)
G06	7320	16-7	0758	Mon	329 329 329 00000. Early start	USB	(AB)

G06	5890	19-7	1258	Thu	329 329 329 00000. Early start	USB	(AB-POL/MPJ)
G06	6887	26-7	1830	Thu	842 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000 Windows shut down sound	USB	(AB/MPJ)
G06	5943	27-7	1930	Fri	218 289 54 12345 89657 45632 ... 64618 84021 72492 289 54 00000	USB	(AB)
HM01	9330	1-7	0728	Sun	i.p. 03267 18148 10706 36365 17001 45857	AM/RDFT	(AB)
HM01	9065	1-7	0754	Sun	03267 18148 10706 36365 17001 45857	AM/RDFT	(AB)
HM01	11435	1-7	1559	Sun	03268 15381 10707 36366 17002 40351	AM/RDFT	(RR2)
HM01	11435	2-7	1559	Mon	03269 15381 12281 36367 17003 40351	AM/RDFT	(RR2)
HM01	11435	3-7	1625	Tue	07481 15382 12281 36368 17004 40352	AM/RDFT	(RR2)
HM01	9330	4-7	0655	Wed	07481 15382 12281 36368 17004 40352	AM/RDFT	(AB)
HM01	11435	4-7	1556	Wed	07481 15383 12282 51681 17005 40353	AM/RDFT	(RR2)
HM01	11435	5-7	1557	Thu	07482 15384 12283 51681 17006 40354	AM/RDFT	(RR2)
HM01	11435	6-7	1556	Fri	07483 15385 12284 51682 17007 40355	AM/RDFT	(RR2)
HM01	11435	7-7	1555	Sat	07484 15386 12285 51683 17008 40356	AM/RDFT	(RR2)
HM01	10345	8-7	0554	Sun	07484 15386 12285 51683 17008 40357	AM/RDFT	(AB)
HM01	9330	8-7	0654	Sun	07484 15386 12285 51683 17008 40357	AM/RDFT	(AB)
HM01	9065	8-7	0754	Sun	07484 15386 12285 51683 17008 40357	AM/RDFT	(AB)
HM01	11435	8-7	1558	Sun	07485 15387 12286 51684 20461 40357	AM/RDFT	(RR2)
HM01	11635	9-7	2130	Mon	07486 60301 12287 51685 20461 40358	AM/RDFT	(RR2)
HM01	11462	10-7	0515	Tue	i.p. 07486 60301 12287 51685 20461 40358	AM/RDFT	(AB)
HM01	11435	10-7	1558	Tue	07486 60301 12287 51685 20461 40358 Repeating msg of 9 July	AM/RDFT	(RR2)
HM01	10345	11-7	0554	Wed	07486 60301 12287 51685 20461 40358 Repeating msg of 9 July	AM/RDFT	(AB)
HM01	11435	11-7	1555	Wed	07486 60301 12287 51685 20461 40358. Repeating msg of 9 July	AM/RDFT	(RR2)
HM01	11462	12-7	0516	Thu	i.p. 07486 60301 12287 51685 20461 40358. Repeating msg of 9 July	AM/RDFT	(AB)
HM01	11435	12-7	1555	Thu	07486 60301 12287 51685 20461 40358. Repeating msg of 9 July	AM/RDFT	(RR2)
HM01	10345	13-7	0554	Fri	07486 60301 12287 51685 20461 40358. Repeating msg of 9 July	AM/RDFT	(AB)
HM01	10345	13-7	0654	Fri	07486 60301 12287 51685 20461 40358. Repeating msg of 9 July. Should be on 9330 kHz. Switch at 0657 UTC	AM/RDFT	(AB)
HM01	9330	13-7	0657	Fri	07486 60301 12287 51685 20461 40358. Repeating msg of 9 July	AM/RDFT	(AB)
HM01	9065	13-7	0835	Fri	i.p. 07486 60301 12287 51685 20461 40358. Repeating msg of 9 July	AM/RDFT	(AB)
HM01	9240	13-7	0854	Fri	07486 60301 12287 51685 20461 40358. Repeating msg of 9 July	AM/RDFT	(AB)
HM01	11435	13-7	1553	Fri	07486 60301 12287 51685 20461 40358. Repeating msg of 9 July	AM/RDFT	(RR2)
HM01	11435	13-7	1558	Fri	07486 60301 12287 51685 20461 40358. Repeating msg of 9 July	AM/RDFT	(AB-ATN/RR2)
HM01	11530	13-7	1654	Fri	07486 60301 12287 51685 20461 40358. Repeating msg of 9 July	AM/RDFT	(AB-ATN)
HM01	10715	13-7	2157	Fri	07486 60301 12287 51685 20461 40358. Repeating msg of 9 July	AM/RDFT	(RL)
HM01	11462	14-7	0503	Sat	07486 60301 12287 51685 20461 40358. Repeating msg of 9 July	AM/RDFT	(AB)
HM01	11435	14-7	1554	Sat	07486 60301 12287 51685 20461 40358. Repeating msg of 9 July	AM/RDFT	(RR2)
HM01	11530	14-7	1657	Sat	i.p. 07486 60301 12287 51685 20461 40358. Repeating msg of 9 July	AM/RDFT	(AB-ATN)
HM01	10860	15-7	0543	Sun	i.p. 07486 60301 12287 51685 20461 40358. Repeating msg of 9 July	AM/RDFT	(AB)
HM01	10345	15-7	0554	Sun	07486 60301 12287 51685 20461 40358. Repeating msg of 9 July	AM/RDFT	(AB)
HM01	9330	15-7	0654	Sun	07486 60301 12287 51685 20461 40358. Repeating msg of 9 July	AM/RDFT	(AB)

HM01	9065	15-7	0754	Sun	07486 60301 12287 51685 20461 40358. Repeating msg of 9 July	AM/RDFT	(AB)
HM01	11435	15-7	1555	Sun	picking up where they left off 07487 60301 46621 51686 20462 74861	AM/RDFT	(RR2)
HM01	11435	16-7	1556	Mon	07488 60302 46621 51687 20463 74861	AM/RDFT	(RR2)
HM01	10715	16-7	2057	Mon	07488 60302 46621 51687 20463 74861	AM/RDFT	(RL)
HM01	11635	16-7	2057	Mon	07488 60302 46621 51687 20463 74861	AM/RDFT	(RL)
HM01	11435	17-7	1555	Tue	07489 60303 46622 12041 20464 74862	AM/RDFT	(RR2)
HM01	17480	17-7	2226	Tue	i.p. 07489 60303 46622 12041 20464 74862	AM/RDFT	(RL)
HM01	10345	18-7	0554	Wed	07489 60303 46622 12041 20464 74862	AM/RDFT	(AB)
HM01	9330	18-7	0654	Wed	07489 60303 46622 12041 20464 74862	AM/RDFT	(AB)
HM01	11435	18-7	1600	Wed	Abrupt and i.p. following Radio Habana Cuba broadcast: 77001 60304 46623 12041 20465 74863	AM/RDFT	(RR2)
HM01	10715	18-7	2157	Wed	77001 60304 46623 12041 20465 74863	AM/RDFT	(RL)
HM01	11462	19-7	0534	Thu	i.p. 77001 60304 46623 12041 20465 74863	AM/RDFT	(AB)
HM01	11435	19-7	1558	Thu	77001 60305 46624 12042 20466 74864	AM/RDFT	(RR2)
HM01	10860	20-7	0514	Fri	i.p. 77001 60305 46624 12042 20466 74864	AM/RDFT	(AB)
HM01	10345	20-7	0554	Fri	77001 60305 46624 12042 20466 74864	AM/RDFT	(AB)
HM01	11435	20-7	1557	Fri	77002 60306 46625 12043 20467 74865	AM/RDFT	(RR2)
HM01	11635	20-7	2057	Fri	77002 60306 46625 12043 20467 74865	AM/RDFT	(RL)
HM01	10715	20-7	2157	Fri	77002 60306 46625 12043 20467 74865	AM/RDFT	(RL)
HM01	11462	21-7	0527	Sat	i.p. 77002 60306 46625 12043 20467 74865	AM/RDFT	(AB)
HM01	11435	21-7	1559	Sat	77003 60307 46626 12044 20468 74866	AM/RDFT	(RR2)
HM01	16180	21-7	2057	Sat	77003 60307 46626 12044 20468 74866	AM/RDFT	(RL)
HM01	17480	21-7	2157	Sat	77003 60307 46626 12044 20468 74866	AM/RDFT	(RL)
HM01	10860	22-7	0507	Sun	i.p. 77003 60307 46626 12044 20468 74866	AM/RDFT	(AB)
HM01	10345	22-7	0554	Sun	77003 60307 46626 12044 20468 74866	AM/RDFT	(AB)
HM01	9330	22-7	0654	Sun	77003 60307 46626 12044 20468 74866	AM/RDFT	(AB)
HM01	9065	22-7	0754	Sun	77003 60307 46626 12044 20468 74866	AM/RDFT	(AB)
HM01	11435	22-7	1555	Sun	77004 80171 46627 12045 32571 74867	AM/RDFT	(RR2)
HM01	10860	23-7	0518	Mon	i.p. 77004 80171 46627 12045 32571 74867. Files sent: 08313257.TXT 36227700.F1G 47568017.TXT 51551204.TXT 62547486.TXT 86514662.TXT	AM/RDFT	(AB)
HM01	11435	23-7	1556	Mon	77005 80171 38871 12046 32571 75431	AM/RDFT	(RR2)
HM01	11530	23-7	1653	Mon	77005 80171 38871 12046 32571 75431	AM/RDFT	(BW3)
HM01	10715	23-7	2157	Mon	77005 80171 38871 12046 32571 75431	AM/RDFT	(RL)
HM01	16180	24-7	2126	Tue	77006 80172 38871 12047 32572 75431	AM/RDFT	(RL)
HM01	17480	24-7	2157	Tue	77006 80172 38871 12047 32572 75431	AM/RDFT	(RL)
HM01	10860	25-7	0537	Wed	i.p. 77006 80172 38871 12047 32572 75431	AM/RDFT	(AB)
HM01	10345	25-7	0554	Wed	77006 80172 38871 12047 32572 75431	AM/RDFT	(AB)
HM01	9330	25-7	0654	Wed	77006 80172 38871 12047 32572 75431	AM/RDFT	(AB)
HM01	11435	25-7	1554	Wed	77006 80172 38871 12047 32572 75431	AM/RDFT	(RR2)
HM01	11435	25-7	1554	Wed	77007 80173 38872 25541 32573 75432	AM/RDFT	(RR2)
HM01	11635	25-7	2054	Wed	77007 80173 38872 25541 32573 75432	AM/RDFT	(RL)

HM01	11435	26-7	1553	Thu	68281 80174 38873 25541 32574 75433	AM/RDFT	(BW3)
HM01	11435	26-7	1555	Thu	68281 80174 38873 25541 32574 75433	AM/RDFT	(AB)
HM01	11435	27-7	1554	Fri	68281 80175 38874 25542 32575 75434	AM/RDFT	(RR2)
HM01	16180	27-7	2133	Fri	i.p. 68281 80174 38873 25541 32574 75433	AM/RDFT	(RL)
HM01	10715	27-7	2154	Fri	68281 80175 38874 25542 32575 75434	AM/RDFT	(RL)
HM01	17480	27-7	2154	Fri	68281 80174 38873 25541 32574 75433	AM/RDFT	(RL)
HM01	11435	28-7	1556	Sat	68282 80176 38875 25543 32576 75435	AM/RDFT	(RR2)
HM01	17480	28-7	2153	Sat	Off and on between 2153 and 2157z. Began i.p. briefly, then again at 2206z. Finally working later on: 68283 80177 38876 25544 32577 75436	AM/RDFT	(BW3)
HM01	10860	29-7	0538	Sun	i.p. 68282 80176 38875 25543 32576 75435	AM/RDFT	(AB)
HM01	10345	29-7	0554	Sun	68282 80176 38875 25543 32576 75435	AM/RDFT	(AB)
HM01	9330	29-7	0654	Sun	68282 80176 38875 25543 32576 75435	AM/RDFT	(AB)
HM01	11435	29-7	1554	Sun	68283 80177 38876 25544 32577 75436	AM/RDFT	(RR2)
HM01	10715	29-7	2200	Sun	68283 80177 38876 25544 32577 75436	AM/RDFT	(Dan)
HM01	11435	30-7	1554	Mon	68284 00121 38877 25545 32578 75437	AM/RDFT	(RR2/BW3)
HM01	11635	30-7	2054	Mon	68284 00121 38877 25545 32578 75437	AM/RDFT	(RL)
HM01	10715	30-7	2154	Mon	68284 00121 38877 25545 32578 75437	AM/RDFT	(RL)
HM01	11435	31-7	1553	Tue	68285 00121 38878 25546 32579 75438	AM/RDFT	(RR2)
HM01	16180	31-7	2055	Tue	68285 00121 38878 25546 32579 75438	AM/RDFT	(BW3)
HM01	17480	31-7	2154	Tue	68285 00121 38878 25546 32579 75438	AM/RDFT	(RL/BW3)
M01	5280	3-7	1800	Tue	025 711 711 30 30 = = 94855 10077 41440 ... 75792 43249 57139 = = 711 711 30 30 30 000	CW	(AB)
M01	4905	3-7	2000	Tue	025 712 712 30 30 = = 00590 53309 46233 ... 66237 85862 39041 = = 712 712 30 30 30 000	CW	(AB)
M01	6435	7-7	1500	Sat	025 631/30 631/30 46742 41876 89277 ... 63989 02394 77762 631/30 000	CW	(MPJ)
M01	6780	8-7	0700	Sun	025 642 642 30 30 = = 19464 84017 48554 ... 01652 40587 17376 642 642 30 30 000	CW	(AB/HFD)
M01	6780	8-7	0700	Sun	025 642 30 19464	CW	(HFD)
M01	5280	10-7	1800	Tue	025 177 177 30 30 = = 75976 16918 01181 ... 96189 84471 87728 = = 177 3 Es 177 177 30 30 000	CW	(MPJ)
M01	5280	12-7	1800	Thu	025 315 315 30 30 = = 69754 12454 05819 ... 27676 70657 77698 = = 315 31H 32 O EEEEE 0	CW	(MPJ)
M01	6435	14-7	1500	Sat	025 643 30 643 30 87804 99904 74362 ... 47261 88732 90551 643 30 000	CW	(AB/MPJ)
M01	6780	15-7	0700	Sun	025 644 644 30 30 = = 10467 56446 46572 ... 74941 28536 43606 = = 644 644 30 30 000	CW	(AB)
M01	5280	17-7	1800	Tue	025 707 707 30 30 = = 97083 63625 67846 ... 46768 67475 90122 = = 707 707 30 30 000	CW	(AB/MPJ)
M01	5280	19-7	1800	Thu	025 179 179 30 30 = = 80939 38272 65134 ... 38246 71461 18852 = = 179 179 30 30 000	CW	(MPJ)
M01a	6772	21-7	0806	Sat	895 895 111 111 000	CW	(F5JBR)
M01	6435	21-7	1500	Sat	025 937 937 30 30 = = 32948 36116 48128 ... 95734 87303 44827 = = 937 937 30 30 000	CW	(AB/MPJ)
M01	5280	24-7	1800	Tue	025 812/30 812/30 02727 36076 82624 ... 22425 92907 47508 812/30 000	CW	(AB/MPJ)
M01	5280	26-7	1800	Thu	025 437 30 437 30 = = 24886 12018 95333 ... 24269 53496 78904 = = 437 30 437 30 000	CW	(AB)
M01	6435	28-7	1455	Sat	VVV VVV	CW	(AB)
M01	6435	28-7	1500	Sat	025 136/30 136/30 55125 05770 72844 ... 17940 37163 51820 136/30 000	CW	(AB/MPJ)
M01	6780	29-7	0700	Sun	025 138/30 138/30 01208 34606 76523 ... 84138 64859 43658 138/30 000	CW	(AB)
M01	5280	31-7	1800	Tue	025 181 181 030 30 = = 52801 51744 06146 ... 81086 25048 19258 = = 181 181 SK 30 30 000	CW	(MPJ)
M01a	8042	1-7	1533	Sun	111 333 15 111 333 16 333 16 111 000	CW	(F5JBR)

M01a	8042	1-7	1533	Sun	111 333 15 111 333 16 333 16 111 000	CW	(F5JBR)
M01a	9053	1-7	1542	Sun	269 (x3) 27688 (x2) 55 333 27671 333 27108 333 27108 333 27538 333 23638 ...	CW	(F5JBR)
M01a	9053	1-7	1542	Sun	269 269 269 27688 27688 55 333 27671 333 27108 ...	CW	(F5JBR)
M01a	5430	5-7	1648	Thu	94013 24648 04613 54798 74425 111 000	CW	(F5JBR)
M01b	5125	2-7	1810	Mon	364 238 38 == 68979 31408 65182 ... 74550 63072 90866 == 238 38 000 //5735 kHz	MCW	(MPJ-AUT)
M01b	5735	2-7	1810	Mon	364 238 38 == 68979 31408 65182 ... 74550 63072 90866 == 238 38 000 //5125 kHz	MCW	(MPJ-AUT)
M01b	5150	2-7	1915	Mon	858 238 38 == 68979 31408 65182 ... 74550 63072 90866 == 238 38 000 //5475 kHz	MCW	(MPJ)
M01b	5475	2-7	1915	Mon	858 238 38 == 68979 31408 65182 ... 74550 63072 90866 == 238 38 000 //5150 kHz	MCW	(MPJ)
M01b	5095	5-7	1832	Thu	815 238 38 == 68979 31408 65182 ... 74550 63072 90866 == 238 38 000	MCW	(MPJ)
M01b	5150	9-7	1810	Mon	364 238 38 == 68979 31408 65182 ... 74550 63072 90866 == 238 38 000	MCW	(MPJ)
M01b	5095	12-7	1832	Thu	815 238 38 == 68979 31408 65182 ... 74550 63072 90866 == 238 38 000 //5760 kHz	MCW	(MPJ)
M01b	5760	12-7	1832	Thu	815 238 38 == 68979 31408 65182 ... 74550 63072 90866 == 238 38 000 //5095 kHz	MCW	(MPJ)
M01b	5075	13-7	1902	Fri	336 238 38 == 68979 31408 65182 ... 74550 63072 90866 == 238 38 000 //5465 kHz	MCW	(MPJ-HOL)
M01b	5465	13-7	1902	Fri	336 238 38 == 68979 31408 65182 ... 74550 63072 90866 == 238 38 000 //5075 kHz	MCW	(MPJ-HOL)
M01b	5150	16-7	1810	Mon	364 238 38 == 68979 31408 65182 ... 74550 63072 90866 == 238 38 000 //5735 kHz	MCW	(MPJ)
M01b	5735	16-7	1810	Mon	364 238 38 == 68979 31408 65182 ... 74550 63072 90866 == 238 38 000 //5150 kHz	MCW	(MPJ)
M01b	5150	16-7	1915	Mon	858 238 38 == 68979 31408 65182 ... 74550 63072 90866 == 238 38 000 //5475 kHz	MCW	(MPJ)
M01b	5475	16-7	1915	Mon	858 238 38 == 68979 31408 65182 ... 74550 63072 90866 == 238 38 000 //5150 kHz	MCW	(MPJ)
M01b	5095	19-7	1832	Thu	815 238 38 == 68979 31408 65182 ... 74550 63072 90866 == 238 38 000	MCW	(MPJ-HOL)
M01b	5075	20-7	1902	Fri	336 238 38 == 68979 31408 65182 ... 74550 63072 90866 == 238 38 000 //5465 kHz	MCW	(MPJ-HOL)
M01b	5465	20-7	1902	Fri	336 238 38 == 68979 31408 65182 ... 74550 63072 90866 == 238 38 000 //5075 kHz	MCW	(MPJ-HOL)
M01b	5125	23-7	1810	Mon	364 131 31 == 72468 04445 75144 ... 04618 37344 33994 == 131 31 000 //5735 kHz	MCW	(MPJ)
M01b	5735	23-7	1810	Mon	364 131 31 == 72468 04445 75144 ... 04618 37344 33994 == 131 31 000 //5125 kHz	MCW	(MPJ)
M01b	5150	23-7	1915	Mon	858 131 131 31 = 31 = (!) 72468 04445 75144 ... 04618 37344 33994 = 131 31 000 //5475 kHz	MCW	(MPJ)
M01b	5475	23-7	1915	Mon	858 131 131 31 = 31 = (!) 72468 04445 75144 ... 04618 37344 33994 = 131 31 000 //5150 kHz	MCW	(MPJ)
M01b	5125	30-7	1810	Mon	364 131 31 == 72468 04445 75144 ... 04618 37344 33994 == 131 31 000 //5735 kHz	MCW	(MPJ-HOL)
M01b	5735	30-7	1810	Mon	364 131 31 == 72468 04445 75144 ... 04618 37344 33994 == 131 31 000 //5125 kHz	MCW	(MPJ-HOL)
M01b	5150	30-7	1915	Mon	858 131 31 == 72468 04445 75144 ... 04618 37344 33994 == 131 31 000 //5475 kHz	MCW	(MPJ-I)
M01b	5475	30-7	1915	Mon	858 131 31 == 72468 04445 75144 ... 04618 37344 33994 == 131 31 000 //5150 kHz	MCW	(MPJ-I)
M12	15821	2-7	1400	Mon	892 892 892 000	CW	(AB/MPJ)
M12	13921	2-7	1420	Mon	892 892 892 000	CW	(AB/MPJ)
M12	8047	2-7	1800	Mon	463 463 463 1 7222 95 7222 95 96025 49272 71041 ... 35340 25581 98018 000 000	CW	(AB/MPJ)
M12	6802	2-7	1820	Mon	463 463 463 1 7222 95 7222 95 96025 49272 71041 ... 35340 25581 98018 000 000	CW	(AB/MPJ)
M12	5788	2-7	1840	Mon	463 463 463 1 7222 95 7222 95 96025 49272 71041 ... 35340 25581 98018 000 000	CW	(AB/MPJ)
M12	10343	2-7	1900	Mon	124 124 124 1 4069 110 4069 110 01530 80876 84521 ... 74394 83032 06576 000 000	CW	(AB)
M12	9264	2-7	1920	Mon	124 124 124 1 4069 110 4069 110 01530 80876 84521 ... 74394 83032 06576 000 000	CW	(AB)
M12	8116	2-7	1940	Mon	124 124 124 1 4069 110 4069 110 01530 80876 84521 ... 74394 83032 06576 000 000	CW	(AB)
M12	12103	3-7	0700	Tue	163 163 163 1 4345 53 5345 53 07805 14675 03514 ... 38422 36625 15632 000 000	CW	(Danix)
M12	15821	4-7	1400	Wed	892 892 892 000	CW	(AB/MPJ/HFD)
M12	15821	4-7	1400	Wed	892 0	CW	(HFD)

M12	13921	4-7	1420	Wed	892 892 892 000	CW	(AB/MPJ/HFD)
M12	13921	4-7	1420	Wed	892 0	CW	(HFD)
M12	16323	4-7	1950	Wed	395 0	CW	(HFD)
M12	16323	4-7	1950	Wed	395 395 395 000	CW	(AB/RL/HFD)
M12	14923	4-7	2010	Wed	395 395 395 000	CW	(AB/RL/HFD)
M12	14923	4-7	2010	Wed	395 0	CW	(HFD)
M12	9373	4-7	2100	Wed	398 398 398 1 525 81 525 81 09000 20136 69025 ... 67689 61788 77087 000 000	CW	(AB)
M12	7979	4-7	2120	Wed	398 398 398 1 525 81 525 81 09000 20136 69025 ... 67689 61788 77087 000 000	CW	(AB)
M12	6879	4-7	2140	Wed	398 398 398 1 525 81 525 81 09000 20136 69025 ... 67689 61788 77087 000 000	CW	(AB)
M12	12103	5-7	0700	Thu	163 163 163 1 4345 53 4345 53 07805 14675 03514 ... 40159 38422 36625 15633 000 000	CW	(AB-RUS)
M12	10603	5-7	0720	Thu	163 163 163 1 4345 53 4345 53 07805 14675 03514 ... 40159 38422 36625 15633 000 000	CW	(AB-RUS)
M12	9303	5-7	0740	Thu	163 163 163 1 4345 53 4345 53 07805 14675 03514 ... 40159 38422 36625 15633 000 000	CW	(AB-RUS)
M12	14377	5-7	1700	Thu	317 317 317 1 8191 110 8191 110 86331 51350 18480 ... 90705 61357 53271 000 000	CW	(AB/MPJ)
M12	13461	5-7	1720	Thu	317 317 317 1 8191 110 8191 110 86331 51350 18480 ... 90705 61357 53271 000 000	CW	(AB/MPJ)
M12	12114	5-7	1740	Thu	317 317 317 1 8191 110 8191 110 86331 51350 18480 ... 90705 61357 53271 000 000	CW	(AB/MPJ)
M12	10343	5-7	1900	Thu	124 124 124 1 5791 120 5791 120 51998 53786 09852 ... 76702 49659 44311 000 000	CW	(AB/MPJ)
M12	9264	5-7	1920	Thu	124 124 124 1 5791 120 5791 120 51998 53786 09852 ... 76702 49659 44311 000 000	CW	(AB/MPJ)
M12	8116	5-7	1940	Thu	124 124 124 1 5791 120 5791 120 51998 53786 09852 ... 76702 49659 44311 000 000	CW	(AB/MPJ)
M12	16323	6-7	1950	Fri	395 395 395 000	CW	(AB)
M12	14923	6-7	2010	Fri	395 395 395 000	CW	(AB)
M12	13381	6-7	2110	Fri	317 317 317 000	CW	(AB)
M12	12181	6-7	2130	Fri	317 317 317 000	CW	(AB)
M12	9217	7-7	0500	Sat	262 262 262 1 525 81 525 81 09000 20136 69025 ... 67689 61788 77087 000 000	CW	(AB)
M12	10617	7-7	0520	Sat	262 262 262 1 525 81 525 81 09000 20136 69025 ... 67689 61788 77087 000 000	CW	(AB)
M12	12217	7-7	0540	Sat	262 262 262 1 525 81 525 81 09000 20136 69025 ... 67689 61788 77087 000 000	CW	(AB)
M12	15821	9-7	1400	Mon	892 892 892 1 250 121 250 121 53799 41684 37427 ... 34026 27977 81265 000 000	CW	(AB/MPJ)
M12	13921	9-7	1420	Mon	892 892 892 1 250 121 250 121 53799 41684 37427 ... 34026 27977 81265 000 000	CW	(AB/MPJ)
M12	12221	9-7	1440	Mon	892 892 892 1 250 121 250 121 53799 41684 37427 ... 34026 27977 81265 000 000	CW	(AB/MPJ)
M12	8047	9-7	1800	Mon	463 463 463 1 4768 91 4768 91 30651 85353 87135 ... 77446 38244 99986 000 000	CW	(AB/MPJ)
M12	6802	9-7	1820	Mon	463 463 463 1 4768 91 4768 91 30651 85353 87135 ... 77446 38244 99986 000 000	CW	(AB/MPJ)
M12	5788	9-7	1840	Mon	463 463 463 1 4768 91 4768 91 30651 85353 87135 ... 77446 38244 99986 000 000	CW	(AB/MPJ)
M12	10343	9-7	2000	Mon	124 124 124 1 6316 103 6316 103 65752 73345 98600 ... 10478 68361 99178 000 000	CW	(AB)
M12	9264	9-7	2020	Mon	124 124 124 1 6316 103 6316 103 65752 73345 98600 ... 10478 68361 99178 000 000	CW	(AB)
M12	8116	9-7	2040	Mon	124 124 124 1 6316 103 6316 103 65752 73345 98600 ... 10478 68361 99178 000 000	CW	(AB)
M12	13381	9-7	2110	Mon	317 317 317 000	CW	(AB/RL)
M12	12181	9-7	2130	Mon	317 317 317 000	CW	(AB/RL)
M12	15821	11-7	1400	Wed	892 892 892 1 250 121 250 121 53799 41684 37427 ... 34026 27977 81265 000 000	CW	(AB/MPJ)
M12	13921	11-7	1420	Wed	892 892 892 1 250 121 250 121 53799 41684 37427 ... 34026 27977 81265 000 000	CW	(AB/MPJ)
M12	12221	11-7	1440	Wed	892 892 892 1 250 121 250 121 53799 41684 37427 ... 34026 27977 81265 000 000	CW	(AB/MPJ)
M12	16323	11-7	1950	Wed	395 395 395 000	CW	(AB/RL)

M12	14923	11-7	2010	Wed	395 395 395 000	CW	(AB/RL)
M12	9373	11-7	2100	Wed	398 398 398 000	CW	(AB/HFD)
M12	9379	11-7	2100	Wed	398 0	CW	(HFD)
M12	7979	11-7	2120	Wed	398 0	CW	(HFD)
M12	7979	11-7	2120	Wed	398 398 398 000	CW	(AB/HFD)
M12	13469	11-7	2210	Wed	411 411 411 000	CW	(AB)
M12	12169	11-7	2230	Wed	411 411 411 000	CW	(AB)
M12	12103	12-7	0700	Thu	163 163 163 000	CW	(AB-RUS)
M12	10603	12-7	0720	Thu	163 163 163 000	CW	(AB-RUS)
M12	14377	12-7	1700	Thu	317 317 317 1 4328 101 4328 101 20116 31745 40346 ... 26535 98438 46339 000 000	CW	(AB/MPJ)
M12	13461	12-7	1720	Thu	317 317 317 1 4328 101 4328 101 20116 31745 40346 ... 26535 98438 46339 000 000	CW	(AB/MPJ)
M12	12114	12-7	1740	Thu	317 317 317 1 4328 101 4328 101 20116 31745 40346 ... 26535 98438 46339 000 000	CW	(AB/MPJ)
M12	10343	12-7	1900	Thu	124 124 124 1 5426 112 5426 112 15166 22889 88978 ... 94188 15280 64741 85735 000 000	CW	(AB/MPJ)
M12	9264	12-7	1920	Thu	124 124 124 1 5426 112 5426 112 15166 22889 88978 ... 94188 15280 64741 85735 000 000	CW	(AB/MPJ)
M12	8116	12-7	1940	Thu	124 124 124 1 5426 112 5426 112 15166 22889 88978 ... 94188 15280 64741 85735 000 000	CW	(AB/MPJ)
M12	13381	12-7	2110	Thu	317 317 317 000	CW	(AB/RL)
M12	12181	12-7	2130	Thu	317 317 317 000	CW	(AB/RL)
M12	16323	13-7	1950	Fri	395 395 395 000	CW	(AB)
M12	14923	13-7	2010	Fri	395 395 395 000	CW	(AB)
M12	9217	14-7	0500	Sat	262 262 262 000	CW	(AB)
M12	10617	14-7	0520	Sat	262 262 262 000	CW	(AB)
M12	15821	16-7	1400	Mon	892 892 892 000	CW	(AB/MPJ)
M12	13921	16-7	1420	Mon	892 892 892 000	CW	(AB/MPJ)
M12	8047	16-7	1800	Mon	463 463 463 1 2623 94 2623 94 08037 32317 83934 ... 92560 55915 85295 000 000	CW	(AB/MPJ)
M12	6802	16-7	1820	Mon	463 463 463 1 2623 94 2623 94 08037 32317 83934 ... 92560 55915 85295 000 000	CW	(AB/MPJ)
M12	5788	16-7	1840	Mon	463 463 463 1 2623 94 2623 94 08037 32317 83934 ... 92560 55915 85295 000 000	CW	(AB/MPJ)
M12	10343	16-7	2000	Mon	124 124 124 1 8917 107 8917 107 84753 84776 58696 37078 74275 87528 ...	CW	(AB)
M12	9264	16-7	2020	Mon	124 124 124 1 8917 107 8917 107 84753 84776 58696 37078 74275 87528 ...	CW	(AB)
M12	8116	16-7	2040	Mon	124 124 124 1 8917 107 8917 107 84753 84776 58696 37078 74275 87528 ...	CW	(AB)
M12	13381	16-7	2110	Mon	317 317 317 000	CW	(AB)
M12	12181	16-7	2130	Mon	317 317 317 000	CW	(AB)
M12	12103	17-7	0700	Tue	163 163 163 1 8003 45 8003 45 62719 38123 23192 ... 90412 94228 13129 000 000	CW	(AB-RUS)
M12	10603	17-7	0720	Tue	163 163 163 1 8003 45 8003 45 62719 38123 23192 ... 90412 94228 13129 000 000	CW	(AB-RUS)
M12	9303	17-7	0740	Tue	163 163 163 1 8003 45 8003 45 62719 38123 23192 ... 90412 94228 13129 000 000	CW	(AB-RUS)
M12	15821	18-7	1400	Wed	892 892 892 000	CW	(AB/MPJ)
M12	13921	18-7	1420	Wed	892 892 892 000	CW	(AB/MPJ)
M12	16323	18-7	1950	Wed	395 395 395 000	CW	(AB)
M12	14923	18-7	2010	Wed	395 395 395 000	CW	(AB)
M12	9373	18-7	2100	Wed	398 398 398 1 394 137 394 137 29985 13104 64491 ... 98239 35079 38594 000 000	CW	(AB)
M12	7979	18-7	2120	Wed	398 398 398 1 394 137 394 137 29985 13104 64491 ... 98239 35079 38594 000 000	CW	(AB)

M12	6879	18-7	2140	Wed	398 398 398 1 394 137 394 137 29985 13104 64491 ... 98239 35079 38594 000 000	CW	(AB)
M12	12103	19-7	0700	Thu	163 163 163 1 8003 45 8003 45 62719 38123 23192 ... 90412 94228 13129 000 000	CW	(AB-RUS)
M12	10603	19-7	0720	Thu	163 163 163 1 8003 45 8003 45 62719 38123 23192 ... 90412 94228 13129 000 000	CW	(AB-RUS)
M12	9303	19-7	0740	Thu	163 163 163 1 8003 45 8003 45 62719 38123 23192 ... 90412 94228 13129 000 000	CW	(AB-RUS)
M12	13461	19-7	1720	Thu	317 1 5231 107 34705 14139 69691 ... 15845 25572 55964 000 000	CW	(MPJ)
M12	12114	19-7	1740	Thu	317 1 5231 107 34705 14139 69691 ... 15845 25572 55964 000 000	CW	(MPJ)
M12	10343	19-7	1900	Thu	124 124 124 1 1120 123 1120 123 23468 04929 82102 ... 49493 75862 44746 000 000	CW	(AB)
M12	9264	19-7	1920	Thu	124 124 124 1 1120 123 1120 123 23468 04929 82102 ... 49493 75862 44746 000 000	CW	(AB)
M12	8116	19-7	1940	Thu	124 124 124 1 1120 123 1120 123 23468 04929 82102 ... 49493 75862 44746 000 000	CW	(AB)
M12	13381	19-7	2110	Thu	317 317 317 000	CW	(AB)
M12	12181	19-7	2130	Thu	317 317 317 000	CW	(AB)
M12	16323	20-7	1950	Fri	395 395 395 000	CW	(AB/RL)
M12	14923	20-7	2010	Fri	395 395 395 000	CW	(AB/RL)
M12	9217	21-7	0500	Sat	262 262 262 1 394 137 394 137 29985 13104 64491 ... 98239 35079 38594 000 000	CW	(AB/HFD)
M12	9217	21-7	0500	Sat	262 1	CW	(HFD)
M12	10617	21-7	0520	Sat	262 1	CW	(HFD)
M12	10617	21-7	0520	Sat	262 262 262 1 394 137 394 137 29985 13104 64491 ... 98239 35079 38594 000 000	CW	(AB/HFD)
M12	12217	21-7	0540	Sat	262 262 262 1 394 137 394 137 29985 13104 64491 ... 98239 35079 38594 000 000	CW	(AB/HFD)
M12	12217	21-7	0540	Sat	262 1	CW	(HFD)
M12	13469	21-7	2210	Sat	411 411 411 1 5463 93 5463 93 94060 ...	CW	(AB/RL)
M12	12169	21-7	2230	Sat	411 411 411 1 5463 93 5463 93 94060 ...	CW	(AB)
M12	11169	21-7	2250	Sat	411 411 411 1 5463 93 5463 93 94060 ...	CW	(AB)
M12	15821	23-7	1400	Mon	892 892 892 1 476 155 476 155 88022 26552 69009 ... 06717 65516 22177 000 000	CW	(AB/MPJ)
M12	13921	23-7	1420	Mon	892 892 892 1 476 155 476 155 88022 26552 69009 ... 06717 65516 22177 000 000	CW	(AB/MPJ)
M12	12221	23-7	1440	Mon	892 892 892 1 476 155 476 155 88022 26552 69009 ... 06717 65516 22177 000 000	CW	(AB/MPJ)
M12	8047	23-7	1800	Mon	463 463 463 1 1288 92 1288 92 43350 40695 20334 ... 44335 02915 02949 000 000	CW	(AB)
M12	6802	23-7	1820	Mon	463 463 463 1 1288 92 1288 92 43350 40695 20334 ... 44335 02915 02949 000 000	CW	(AB)
M12	5788	23-7	1840	Mon	463 463 463 1 1288 92 1288 92 43350 40695 20334 ... 44335 02915 02949 000 000	CW	(AB)
M12	10343	23-7	2000	Mon	124 124 124 1 2292 104 2292 104 85955 45733 56509 ... 22994 01138 25518 000 000	CW	(AB)
M12	9264	23-7	2020	Mon	124 124 124 1 2292 104 2292 104 85955 45733 56509 ... 22994 01138 25518 000 000	CW	(AB)
M12	8116	23-7	2040	Mon	124 124 124 1 2292 104 2292 104 85955 45733 56509 ... 22994 01138 25518 000 000	CW	(AB)
M12	13381	23-7	2110	Mon	317 317 317 000	CW	(AB/RL)
M12	12181	23-7	2130	Mon	317 317 317 000	CW	(AB/RL)
M12	15821	25-7	1400	Wed	892 892 892 1 476 155 476 155 88022 26552 69009 ... 06717 65516 22177 000 000	CW	(AB)
M12	13921	25-7	1420	Wed	892 892 892 1 476 155 476 155 88022 26552 69009 ... 06717 65516 22177 000 000	CW	(AB)
M12	12221	25-7	1440	Wed	892 892 892 1 476 155 476 155 88022 26552 69009 ... 06717 65516 22177 000 000	CW	(AB)
M12	16323	25-7	1950	Wed	395 395 395 000	CW	(AB/RL)
M12	14923	25-7	2010	Wed	395 395 395 000	CW	(AB)
M12	9373	25-7	2100	Wed	398 398 398 000	CW	(AB)
M12	7979	25-7	2120	Wed	398 398 398 000	CW	(AB/RL)

M12	12103	26-7	0700	Thu	163 163 163 000	CW	(AB-RUS)
M12	10603	26-7	0720	Thu	163 163 163 000	CW	(AB-RUS)
M12	14377	26-7	1700	Thu	317 317 317 1 2286 102 2286 102 55053 73898 77342 ... 81827 82710 18303 000 000	CW	(AB-RUS/MPJ)
M12	13461	26-7	1720	Thu	317 317 317 1 2286 102 2286 102 55053 73898 77342 ... 81827 82710 18303 000 000	CW	(AB-RUS/MPJ)
M12	12114	26-7	1740	Thu	317 317 317 1 2286 102 2286 102 55053 73898 77342 ... 81827 82710 18303 000 000	CW	(AB/MPJ)
M12	10343	26-7	1900	Thu	124 124 124 1 3419 115 3429 115 79676 96330 90580 ... 50313 38611 21198 000 000	CW	(AB/MPJ)
M12	9264	26-7	1920	Thu	124 124 124 1 3419 115 3429 115 79676 96330 90580 ... 50313 38611 21198 000 000	CW	(AB)
M12	8116	26-7	1940	Thu	124 124 124 1 3419 115 3429 115 79676 96330 90580 ... 50313 38611 21198 000 000	CW	(AB)
M12	13381	26-7	2110	Thu	317 317 317 000	CW	(RL)
M12	12181	26-7	2130	Thu	317 317 317 000	CW	(RL)
M12	16323	27-7	1950	Fri	395 395 395 000	CW	(AB/RL)
M12	14923	27-7	2010	Fri	395 395 395 000	CW	(AB/RL)
M12	9217	28-7	0500	Sat	262 262 262 000	CW	(AB)
M12	10617	28-7	0520	Sat	262 262 262 000	CW	(AB)
M12	13469	28-7	2210	Sat	411 411 411 000	CW	(RL)
M12	15821	30-7	1400	Mon	892 892 892 000	CW	(AB/MPJ)
M12	13921	30-7	1420	Mon	892 892 892 000	CW	(AB/MPJ)
M12	8047	30-7	1800	Mon	463 463 463 1 1027 97 1027 97 76568 74643 84669 ... 00147 38343 62053 000 000	CW	(AB/MPJ)
M12	6802	30-7	1820	Mon	463 463 463 1 1027 97 1027 97 76568 74643 84669 ... 00147 38343 62053 000 000	CW	(AB/MPJ)
M12	5788	30-7	1840	Mon	463 463 463 1 1027 97 1027 97 76568 74643 84669 ... 00147 38343 62053 000 000	CW	(AB/MPJ)
M12	10343	30-7	2000	Mon	124 124 124 1 6221 106 6221 106 27895 38501 13122 ... 71173 58179 01232 000 000	CW	(AB)
M12	9264	30-7	2020	Mon	124 124 124 1 6221 106 6221 106 27895 38501 13122 ... 71173 58179 01232 000 000	CW	(AB)
M12	8116	30-7	2040	Mon	124 124 124 1 6221 106 6221 106 27895 38501 13122 ... 71173 58179 01232 000 000	CW	(AB)
M12	13381	30-7	2110	Mon	317 317 317 000	CW	(AB)
M12	12181	30-7	2130	Mon	317 317 317 000	CW	(AB)
M12	12103	31-7	0700	Tue	163 163 163 000	CW	(AB-RUS)
M12	10603	31-7	0720	Tue	163 163 163 000	CW	(AB-RUS)
M14	18041	2-7	0500	Mon	952 684 684 50 50 = = 68298 68830 87898 ... 44872 93180 17416 = = 684 684 50 50 00000	CW	(AB-J)
M14	18041	3-7	0500	Tue	952 137 137 55 55 = = 29506 36146 31368 ... 15756 17980 53136 = = 137 137 55 55 00000	CW	(AB-J)
M14	6948	3-7	1600	Tue	725 725 725 00000	MCW	(AB/MPJ)
M14	18041	4-7	0500	Wed	952 608 608 50 50 = = 46373 77187 33163 ... 53687 39263 65277 = = 608 608 50 50 00000	CW	(AB)
M14	10755	4-7	1300	Wed	Unscheduled txm. New id. 818 354 354 60 60 = = 98687 16863 02246 ... 49963 25068 69906 = = 354 354 60 60 00000	CW	(qsr711)
M14	9073	4-7	1330	Wed	Unscheduled txm. New id. 818 354 354 60 60 = = 98687 16863 02246 ... 49963 25068 69906 = = 354 354 60 60 00000	CW	(qsr711)
M14	18041	5-7	0500	Thu	952 417 417 60 60 = = 35173 45288 21131 ... 79632 18102 51772 = = 417 417 60 60 00000	CW	(AB-J)
M14	18041	6-7	0500	Fri	952 308 308 55 55 = = 58194 75134 93350 ... 80064 42407 23893 = = 308 308 55 55 00000	CW	(AB-J)
M14	7605	6-7	1900	Fri	725 725 725 00000	MCW	(AB)
M14	6876	6-7	2000	Fri	725 725 725 00000	MCW	(AB)
M14	5560	7-7	0905	Sat	i.p. ??? 935 935 65 65 ????? ????? 63426 ... 64987 54897 31189 935 935 65 65 00000	MCW	(AB)

M14	18041	9-7	0500	Mon	952 461 461 50 50 == 08638 28055 50458 ... 51621 55454 20948 == 461 461 50 50 00000	CW	(AB-J)
M14	18041	10-7	0500	Tue	952 378 378 55 55 == 87946 34713 75610 ... 42346 17975 16500 == 378 378 55 55 00000	CW	(AB-J)
M14	16347	10-7	0930	Tue	617 617 617 00000	CW	(AB)
M14	6856	10-7	1820	Tue	163 732 32 98878 54347 07091 ... 17277 56734 98890 732 32 00000	MCW	(MPJ)
M14	5938	11-7	1920	Wed	417 732 32 98878 54347 07091 ... 77277 56734 98890 732 32 00000	MCW	(MPJ)
M14	18041	12-7	0500	Thu	952 731 731 60 60 == 14640 07595 67370 ... 02261 91449 36727 == 731 731 60 60 00000	CW	(AB-J)
M14	18041	13-7	0500	Fri	952 480 480 55 55 == 12906 26666 34288 ... 30598 33273 50541 == 480 480 55 55 00000	CW	(AB-J/SDX)
M14	5560	14-7	0900	Sat	171 725 725 25 25 45323 09898 65423 ... 89346 01070 67812 725 725 25 25 00000	MCW	(AB-RUS)
M14	18041	16-7	0500	Mon	952 163 163 50 50 == 74006 64843 38110 35752 ... 163 163 50 50 00000	CW	(AB-J)
M14	6948	17-7	1600	Tue	725 725 725 00000	MCW	(AB/MPJ)
M14	18041	18-7	0500	Wed	952 610 610 50 50 == 53754 48512 85042 ... 23237 35199 55843 == 610 610 50 50 00000	CW	(AB-J)
M14	18041	19-7	0500	Thu	952 374 374 60 60 == 43729 56489 46202 ... 32592 43772 31758 == 374 374 60 60 00000	CW	(AB-J)
M14	18041	20-7	0500	Fri	952 180 180 55 55 == 35189 68838 74415 ... 83745 00777 97756 == 180 180 55 55 00000	CW	(AB-J)
M14	7605	20-7	1900	Fri	735 735 735 00000	MCW	(AB/MPJ)
M14	6876	20-7	2000	Fri	735 735 735 00000	MCW	(AB)
M14	5430	21-7	0800	Sat	171 184 184 59 59 13253 26472 48950 ... 49653 12311 84502 184 184 59 59 00000	MCW	(AB-RUS)
M14	5560	21-7	0900	Sat	171 184 184 59 59 13253 26472 48950 ... 49653 12311 84502 184 184 59 59 00000	MCW	(AB-RUS)
M14	18041	23-7	0500	Mon	952 364 364 50 50 == 94303 47660 44951 ... 03181 25714 99131 == 364 364 50 50 00000	CW	(AB-J)
M14	6856	24-7	1820	Tue	163 732 732 32 32 98878 54347 07091 ... 77277 56734 98890 732 732 32 00000	MCW	(AB/MPJ)
M14	18041	25-7	0500	Wed	952 606 606 50 50 == 49165 26476 14381 ... 95657 93992 31802 == 606 606 50 50 00000	CW	(AB-J)
M14	16347	25-7	0930	Wed	617 617 617 00000	CW	(AB)
M14	5938	25-7	1920	Wed	417 897 20 = 65473	CW	(HFD)
M14	5938	25-7	1920	Wed	417 897 8897 20 20 65473 38754 39856 ... 38556 39917 897 89 885520 20 0500000000000000	MCW	(AB/MPJ/HFD)
M14	18041	26-7	0500	Thu	952 743 743 55 55 == 46657 35536 64200 ... 08135 42960 82640 == 743 743 55 55 00000	CW	(AB-J)
M14	18041	27-7	0500	Fri	952 810 810 60 60 == 16164 13456 95159 ... 60940 86629 34469 == 810 810 60 60 00000	CW	(AB-J)
M14	5430	28-7	0800	Sat	171 349 349 56 56 45644 45646 81348 ... 02458 81230 67312 349 349 56 56 00000	MCW	(AB-RUS)
M14	5560	28-7	0900	Sat	171 707 707 42 42 89734 67523 56423 ... 92934 65723 76534 707 707 42 42 00000 This should be a repeat of 0800 UTC	MCW	(AB-RUS)
M14	18041	30-7	0500	Mon	952 647 647 50 50 == 33695 70167 31698 ... 26301 88353 51816 == 647 647 50 50 00000	CW	(AB-J)
M14	18041	31-7	0500	Tue	952 138 138 55 55 == 44941 15014 81858 ... 03637 52081 17857 == 138 138 55 55 00000	CW	(AB)
M21	8616	1-7	0840	Sun	=99?1140?9?????	CW	(F5JBR-J)
M21	5431	1-7	0923	Sun	=99?1223?9????? =99?1226?9?????	CW	(F5JBR-J)
M21	8616	1-7	1142	Sun	=99?1144?9?????	CW	(F5JBR-J)
M21	8616	1-7	1148	Sun	=99?1150?9?????	CW	(F5JBR-J)
M21	6843.5	2-7	0638	Mon	=991935??0????? =991936??0?????	CW	(F5JBR-J)
M21	3300.5	4-7	1429	Wed	=99?1728?9????? =99?1731?9?????	CW	(F5JBR-J)
M21	8616	5-7	1153	Thu	=99?1453?9????? =99?1454?9?????	CW	(F5JBR-J)
M21	4582	5-7	1227	Thu	=991527??0????? =991528??0?????	CW	(F5JBR-J)
M21	4440	5-7	1231	Thu	11003020696830 =991531??8????? =991532??8?????	CW	(F5JBR-J)
M21	5221.5	18-7	2038	Wed	=992348??0????? =992349??0????? =992350??0?????	CW	(AB)

M21	3691.5	21-7	1823	Sat	Russian Air Defense: =992123??0????? =992124??0????? =992125??0?????	CW	(F5JBR-J)
M21	7460	24-7	0536	Tue	=10003701050620 =10004363371836 =10005163393637 =10006163393937 =10007163393137 =10008163399437 =10009363378238	CW	(F5JBR-J)
M21	4582	24-7	1337	Tue	=991636??0????? =991637??0????? =991638??0?????	CW	(F5JBR-J)
M21	4385.5	24-7	1858	Tue	=99?2158?9????? =99?2159?9????? =99?2200?9?????	CW	(F5JBR-J)
M21	6440.5	25-7	0330	Wed	=10371168519432 =113091456495428 =21391701090804 =990631??0????? =21391901090804	CW	(F5JBR-J)
M21	5431	25-7	0429	Wed	=99?0728?9????? =11391454593827 =21391901100922 =99?0732?9????? =11391454599931	CW	(F5JBR-J)
M21	6222	25-7	0440	Wed	=990742?0????? =990741??0????? =990742??0?????	CW	(F5JBR-J)
M21	3267	25-7	1303	Wed	=991603??0????? =991604??0????? =991605??0?????	CW	(F5JBR-J)
M21	4601	25-7	1429	Wed	=00830956059514030 =0154090821851100900	CW	(F5JBR-J)
M21	5323	29-7	0719	Sun	=991019??0????? =991020??0????? =991021??0?????	CW	(F5JBR-J)
M22	6607	14-7	1728	Sat	VVV DE 4XZ 4XZ = = VVV DE 4XZ 4XZ	CW	(AB)
M32	4523	4-7	1903	Wed	RBL91 clg collective c/s RADJ and wkg RFN72, RFN32, RFN33, RFN68, RFN76, RFN77, RFN74	CW	(F5JBR)
M32	4651	6-7	0630	Fri	Channel marker D	CW	(F5JBR)
M32	4603	6-7	0706	Fri	B8KL wkg YBY7. RPT QTC 04 01 0500 = 1379 K	CW	(F5JBR)
M32	4603	6-7	0708	Fri	B8KL wkg YBY7. RPT QTC 03 03 0435 = 4904 7273 0680 K	CW	(F5JBR)
M32	4603	6-7	0800	Fri	Channel marker D //5013 kHz	CW	(F5JBR)
M32	5013	6-7	0800	Fri	Channel marker D //4603 kHz	CW	(F5JBR)
M32	6880	26-7	0817	Thu	i.p. 1663 = 6812 = 3149 = 8711 = 8977 = 5409 = etc.	CW	(JPL-Sib)
M32a	5807	29-7	0747	Sun	VVV RJQ75 DE RCC QSA ? K	CW	(JPL-J)
M32a	3719	29-7	1408	Sun	i.p. 46653 77920 42769 47486 29024 = AR RGL80 K. RGL80 RPT 03197 RJD93 R 235 K. RGL80 OK K	CW	(JPL-J)
M32a	5807	30-7	0927	Mon	RJQ75 RNII NR 447 RPT 16 K. RCC RPT 52357 K. RPT 16 K. RCC RPT 52357 K. RJQ75 NR 447 RPT 19 RCC RPT 74935 K	CW	(JPL-Sib)
M32a	8167	30-7	0936	Mon	RJS OK QRU K. VVV RJS DE RJP42 QSA ? QRU ? K. RJP42 DE RJS QSA 3 QTC K	CW	(JPL-Sib)
M41	4635.5	5-7	0505	Thu	i.p. 836604 =9723252838804 9724252837204 9728252837104 =009727252933991000806511800...	CW	(F5JBR-J)
M41	4959,	5-7	1522	Thu	i.p. 99621 ... V6OD V6OD AR	CW	(F5JBR-J)
M41	5044	5-7	1710	Thu	i.p. O38R O38R AR	CW	(F5JBR-J)
M41	5037	5-7	1800	Thu	GPY1 GPY1 AR	CW	(F5JBR-J)
M42	11083	4-7	1438	Wed	Russian diplo/intel. i.p.	MFSK-66	(AB)
M42	11154	11-7	0807	Wed	Russian diplo/intel.	3000Bd PSK-8/45Bd MFSK-66	(Danix)
M42	15602	12-7	0811	Thu	Russian diplo/intel. i.p.	MFSK-66	(AB)
M42	10509	23-7	0845	Mon	Russian embassy Warsaw after X06	3000Bd PSK-8	(Danix)
M42	16257	24-7	0824	Tue	Russian diplo after X06	3000Bd PSK- 8/MFSK-66	(Danix)
M42	15820	24-7	1003	Tue	Russian diplo after X06	MFSK-66	(Danix)
M42	15602	26-7	0800	Thu	Russian diplo/intel i.p.	MFSK-66	(AB)
M42	14442	26-7	1109	Thu	Russian diplo/intel.	3000Bd PSK-8	(Danix)
M42	14442	26-7	1118	Thu	Russian diplo/intel.	MFSK-66	(Danix)
M42	12177	27-7	0821	Fri	Russian diplo/intel Moscow	MFSK-66	(Danix)

M42b	8027	1-7	1534	Sun	PMFD msg in FSK50/500, opchat in CW	CW	(F5JBR)
M42b	6875	6-7	0845	Fri	WYGL wkg QGGR msg in FSK50/500, opchat in CW	CW	(F5JBR)
M42b	6865	6-7	0848	Fri	WYGL wkg QGGR msg in FSK50/500, opchat in CW	CW	(F5JBR)
M51a	8566	4-7	1345	Wed	i.p. RXCDG CBXVM YHFGC BSKLA ... BUGF- XTWHZ QJAWK (s/off)	CW	(AB)
M51a	6825	5-7	1226	Thu	i.p. ADQRF TI894 ABI2 +?. SK FNDJE FLAME XVWTG SHAME CNBEJ SIZED ANDUE ZEPLI 12548 SAQWD .,?" JJFRU ASILE XVSGW ...	CW	(AB)
M51a	6825	5-7	1756	Thu	i.p. PLKMO ZXCVD 75301 XUWDL ...	CW	(MPJ)
M89	8157	1-7	0803	Sun	V M8JF (x3) DE RIS9 (x2) //6874 kHz	CW	(F5JBR-J)
M89	6874	2-7	0631	Mon	V M8JF (x3) DE RIS9 (x2)	CW	(F5JBR-J)
M89	5824	3-7	1344	Tue	4RF3 wkg Y6HN. QSX on 4721 kHz	CW	(F5JBR-J)
M89	4512	3-7	1347	Tue	4RF3 wkg Y6HN. RMKS 9270 TO 9990 = text groups 4 figures. QSX on 4721 kHz	CW	(F5JBR-J)
M89	3238	3-7	1401	Tue	V M8JF (x3) DE RIS9 (x2) //4870 kHz	CW	(F5JBR-J)
M89	3378	3-7	1402	Tue	V C4TY (x3) DE NHF5 (x2)	CW	(F5JBR-J)
M89	5801	3-7	1406	Tue	DKG6 de 3A7D V	CW	(F5JBR-J)
M89	3378	4-7	1746	Wed	V C4TY (x3) DE NSF5 (x2) //4783	CW	(JPL)
M89	4783	4-7	1746	Wed	V C4TY (x3) DE NSF5 (x2) //3378	CW	(JPL)
M89	3238	4-7	1747	Wed	V M8JF (x3) DE RIS9 (x2) //4870	CW	(JPL)
M89	4870	4-7	1747	Wed	V M8JF (x3) DE RIS9 (x2) //3238	CW	(JPL)
M89	4131	4-7	1754	Wed	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4783	5-7	1257	Thu	V C4TY (x3) DE NSF5 (x2)	CW	(F5JBR-J)
M89	4131	7-7	1751	Sat	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	3238	7-7	1752	Sat	V M8JF (x3) DE RIS9 (x2) //4870	CW	(JPL)
M89	4870	7-7	1752	Sat	V M8JF (x3) DE RIS9 (x2) //3238	CW	(JPL)
M89	3378	7-7	1755	Sat	V C4TY (x3) DE NSF5 (x2) //4783	CW	(JPL)
M89	4783	7-7	1755	Sat	V C4TY (x3) DE NSF5 (x2) //3378	CW	(JPL)
M89	9090	9-7	1102	Mon	VV HLP9DE 0MQR K. VV HLP9 DE 0MQR QSY 13 K QSY 13 K QSY 13 K. VV HLP9 DE 0MQR K	CW	(JPL)
M89	6840	9-7	1120	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //10640	CW	(JPL)
M89	10640	9-7	1120	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //6840	CW	(JPL)
M89	3238	9-7	1121	Mon	V M8JF (x3) DE RIS9 (x2) //4870	CW	(JPL)
M89	4870	9-7	1121	Mon	V M8JF (x3) DE RIS9 (x2) //3238	CW	(JPL)
M89	7620	9-7	1130	Mon	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K //8350	CW	(JPL)
M89	8350	9-7	1130	Mon	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K //7620	CW	(JPL)
M89	3238	9-7	1527	Mon	V M8JF (x3) DE RIS9 (x2) //4870	CW	(JPL)
M89	4870	9-7	1527	Mon	V M8JF (x3) DE RIS9 (x2) //3238	CW	(JPL)
M89	3378	9-7	1529	Mon	V C4TY (x3) DE NSF5 (x2)	CW	(JPL)
M89	4720	9-7	1530	Mon	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K //5150	CW	(JPL)
M89	5150	9-7	1530	Mon	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K //4720	CW	(JPL)
M89	3238	10-7	1037	Tue	V M8JF (x3) DE RIS9 (x2) //4870	CW	(JPL)
M89	4870	10-7	1037	Tue	V M8JF (x3) DE RIS9 (x2) //3238	CW	(JPL)
M89	3238	13-7	1848	Fri	V M8JF (x3) DE RIS9 (x2) //4870	CW	(JPL)

M89	4870	13-7	1848	Fri	V M8JF (x3) DE RIS9 (x2) //3238	CW	(JPL)
M89	3378	13-7	1849	Fri	V C4TY (x3) DE NSF5 (x2) //4783	CW	(JPL)
M89	4783	13-7	1849	Fri	V C4TY (x3) DE NSF5 (x2) //3378	CW	(JPL)
M89	3238	14-7	1601	Sat	V M8JF (x3) DE RIS9 (x2) //4870	CW	(JPL)
M89	4870	14-7	1601	Sat	V M8JF (x3) DE RIS9 (x2) //3238	CW	(JPL)
M89	3378	14-7	1604	Sat	V C4TY (x3) DE NSF5 (x2) //4783	CW	(JPL)
M89	4783	14-7	1604	Sat	V C4TY (x3) DE NSF5 (x2) //3378	CW	(JPL)
M89	4620	14-7	1620	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //4860 and 6840	CW	(JPL)
M89	4860	14-7	1620	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //4620 and 6840	CW	(JPL)
M89	6840	14-7	1620	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //4620 and 4860	CW	(JPL)
M89	8157	21-7	0721	Sat	V M8JF (x3) DE RIS9	CW	(F5JBR-J)
M89	3312	24-7	1433	Tue	QEF4 (x2) de SZW9 V. Then wkg PUN8 RMJ5 GTNO I4R4 RXZ6 OXFD GH8D. QSX 3650 kHz	CW	(F5JBR-J)
M89	3650	24-7	1433	Tue	QEF4 (x2) de SZW9 V. Then wkg PUN8 RMJ5 GTNO I4R4 RXZ6 OXFD GH8D. QSX 3312 kHz	CW	(F5JBR-J)
M89	3238	24-7	1745	Tue	V M8JF (x3) DE RIS9 (x2) //4870	CW	(JPL)
M89	4870	24-7	1745	Tue	V M8JF (x3) DE RIS9 (x2) //3238	CW	(JPL)
M89	3378	24-7	1748	Tue	V C4TY (x3) DE NSF5 (x2)	CW	(JPL)
M89	3642	24-7	1754	Tue	DKG6 de 3A7D V	CW	(F5JBR)
M89	3378	24-7	1758	Tue	V C4TY (x3) DE NHF5 (x2)	CW	(F5JBR)
M89	3238	25-7	1514	Wed	V M8JF (x3) DE RIS9 (x2) //4870	CW	(JPL)
M89	4870	25-7	1514	Wed	V M8JF (x3) DE RIS9 (x2) //3238	CW	(JPL)
M89	3378	25-7	1515	Wed	V C4TY (x3) DE NSF5 (x2) //4783	CW	(JPL)
M89	4783	25-7	1515	Wed	V C4TY (x3) DE NSF5 (x2) //3378	CW	(JPL)
M89	4620	25-7	1520	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //4860 and 6840	CW	(JPL)
M89	4860	25-7	1520	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //4620 and 6840	CW	(JPL)
M89	6840	25-7	1520	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //4620 and 4860	CW	(JPL)
M89	4720	25-7	1530	Wed	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K	CW	(JPL)
M89	6874	25-7	1544	Wed	V M8JF (x3) DE RIS9 (x2)	CW	(F5JBR)
M89	6874	26-7	0629	Thu	V M8JF (x3) DE RIS9 (x2) //8157	CW	(JPL)
M89	8157	26-7	0629	Thu	V M8JF (x3) DE RIS9 (x2) //6874	CW	(JPL)
M89	10846	26-7	0629	Thu	i.p. NT4A UNA. 756U 4763 DT3. ... AR K	CW	(JPL)
M89	10378	26-7	0641	Thu	V C4TY (x3) DE NSF5 (x2)	CW	(JPL)
M89	3238	26-7	1317	Thu	V M8JF (x3) DE RIS9 (x2) //4870	CW	(JPL)
M89	4870	26-7	1317	Thu	V M8JF (x3) DE RIS9 (x2) //3238	CW	(JPL)
M89	3378	26-7	1319	Thu	V C4TY (x3) DE NSF5 (x2) //4783	CW	(JPL)
M89	4783	26-7	1319	Thu	V C4TY (x3) DE NSF5 (x2) //3378	CW	(JPL)
M89	4620	26-7	1320	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //4860 and 6840	CW	(JPL)
M89	4860	26-7	1320	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //4620 and 6840	CW	(JPL)
M89	6840	26-7	1320	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //4620 and 4860	CW	(JPL)
M89	3378	26-7	1757	Thu	V C4TY (x3) DE NSF5 (x2) //N/H	CW	(JPL)
M89	7589	26-7	2317	Thu	i.p. TU63 D5N3 6T3N 3NUD TA6U ... AR K. R HR WK NR F EEEEE HR WK NR 11336286 K. R MP	CW	(JPL)

M89	6840	26-7	2320	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //10640	CW	(JPL)
M89	10640	26-7	2320	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //6840	CW	(JPL)
M89	8350	26-7	2330	Thu	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K	CW	(JPL)
M89	6840	27-7	0020	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //10640	CW	(JPL)
M89	10640	27-7	0020	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //6840	CW	(JPL)
M89	7620	27-7	0030	Fri	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K //8350	CW	(JPL)
M89	8350	27-7	0030	Fri	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K //7620	CW	(JPL)
M89	7623	27-7	0037	Fri	i.p. VV NNDL ... K NNDL QSA 2 ? QSA 2 OK GA OK NR 361 CK 50 22 0727 0837 K	CW	(JPL)
M89	10400	27-7	0049	Fri	i.p. N356 74DA 5UTD 3A4T U345 ...	CW	(JPL)
M89	8888	27-7	0056	Fri	i.p. NR 3025 CK 20 24 0727 0856 RMKS .931 TO 3901 AR K. HW ? DE LWBH R QSA 3 ANS IEC BT 2BBB AR	CW	(JPL)
M89	8980	27-7	0203	Fri	CQ (x3) DE DP91 (x2) V HR NIL SK GB (x3)	CW	(JPL)
M89	10378	27-7	0813	Fri	V C4TY (x3) DE NSF5 (x2) .	CW	(JPL)
M89	6874	27-7	0814	Fri	V M8JF (x3) DE RIS9 (x2) //8157	CW	(JPL)
M89	8157	27-7	0814	Fri	V M8JF (x3) DE RIS9 (x2) //6874	CW	(JPL)
M89	7778	27-7	0839	Fri	i.p. D4AU N3D6 D65N TD76 ...	CW	(JPL)
M89	7762	27-7	0841	Fri	i.p. R R MSG NR 2802 CK 1.99 36 0727 1500 RMKS 6980 TO 5280 K = 77NT 3DT5 U57D 65NA 5D4A UDA6 354U (Cont'd)	CW	(JPL)
M89	7811	27-7	0847	Fri	i.p. R AS R FF NR 0330/EX 1647 K. R R FF NR 0330/EX K. R BT GMF. K	CW	(JPL)
M89	8157	27-7	1045	Fri	M8JF M8JF M8JF de RIS9 RIS9 V	CW	(AtB)
M89	4131	27-7	1350	Fri	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	10158	27-7	1400	Fri	i.p. D674 3A7N 5AUN 5673 75TD ...	CW	(JPL)
M89	3378	27-7	1404	Fri	V C4TY (x3) DE NSF5 (x2)	CW	(JPL)
M89	3238	27-7	1405	Fri	V M8JF (x3) DE RIS9 (x2) //4870	CW	(JPL)
M89	4870	27-7	1405	Fri	V M8JF (x3) DE RIS9 (x2) //3238	CW	(JPL)
M89	5632	27-7	1414	Fri	i.p. 6D7U 5D3N A7D4 UAN4 43D5 TUDA DA75 ... AR K. R R GA	CW	(JPL)
M89	4620	27-7	1420	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //4860 and 6840	CW	(JPL)
M89	4860	27-7	1420	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //4620 and 6840	CW	(JPL)
M89	6840	27-7	1420	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //4620 and 4860	CW	(JPL)
M89	4564	27-7	1427	Fri	i.p. NR 5520 CK 91 . 4 0727 2150 RMKS 1298686 TO 1298683 K. R R = = U7TD 543N 5TUD 4NT7 5UD3 6A5D 5D7A (Cont'd)	CW	(JPL)
M89	4894	27-7	1500	Fri	i.p. DP81.1 QSA 2 I ? DP8191 QSA 2 U ? DP91E DP8191 QSA 2 .?	CW	(JPL)
M89	5478	27-7	1517	Fri	i.p. 53N7 53U6 35A4 AR K OK U GA	CW	(JPL)
M89	4131	28-7	1636	Sat	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	3232	28-7	1639	Sat	i.p. R NR 015/EX FU 199 = H NR 015/EX FU199 = TT629000/... 30..6 693 34HOHG8 1 66 00 31 6 7 UR YR = 6MBT 36 11 4124645..	CW	(JPL)
M89	3238	28-7	1649	Sat	V M8JF (x3) DE RIS9 (x2) //4870	CW	(JPL)
M89	4870	28-7	1649	Sat	V M8JF (x3) DE RIS9 (x2) //3238	CW	(JPL)
M89	3378	28-7	1651	Sat	V C4TY (x3) DE NSF5 (x2)	CW	(JPL)
M89	4272	29-7	1359	Sun	RPT 88W TO 91W K. RPT 88W TO 91W = N463 DT.A 7N.3 AR K. RPT 88W TO 98W K (Both stations on	CW	(JPL)

					this frequency)		
M89	4131	29-7	1549	Sun	JKDJ de SLBC V	CW	(F5JBR-J)
M89	10378	30-7	0917	Mon	V C4TY (x3) DE NSF5 (x2)	CW	(JPL)
M89	6874	30-7	0919	Mon	V M8JF (x3) DE RIS9 (x2) //8157	CW	(JPL)
M89	8157	30-7	0919	Mon	V M8JF (x3) DE RIS9 (x2) //6874	CW	(JPL)
M89	4193	30-7	1104	Mon	i.p. 7NT6 U7NA 3U76 ATDN 6N4U 4675 ...	CW	(JPL)
M89	4240	30-7	1105	Mon	i.p. /EX 2024 = 8UY2/98CL AR NR 8223/EX 2024 = 8UY2/98CL EEEE = 8UY2C EEEE = 8UY2/98CL AR	CW	(JPL)
M89	4672	30-7	1112	Mon	i.p. A5U6 67U3 3T4D A6T3 ...	CW	(JPL)
M89	4770	30-7	1114	Mon	i.p. 44TA 3UTN 37T3 6DTU 3U54 ...	CW	(JPL)
M89	3721	30-7	1120	Mon	i.p. RPT 32W K. QSL 1921 K	CW	(JPL)
M89	6840	30-7	1120	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5)	CW	(JPL)
M89	3238	30-7	1622	Mon	V M8JF (x3) DE RIS9 (x2) //4870	CW	(JPL)
M89	4870	30-7	1622	Mon	V M8JF (x3) DE RIS9 (x2) //3238	CW	(JPL)
M89	3378	30-7	1623	Mon	V C4TY (x3) DE NSF5 (x2) //4783	CW	(JPL)
M89	4783	30-7	1623	Mon	V C4TY (x3) DE NSF5 (x2) //3378	CW	(JPL)
M89	4131	30-7	1625	Mon	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	5630	31-7	0750	Tue	i.p. QSY LG VY 11549 RMKS S4003 TO 4026 K. BT UNTU NUTU D5AA 6D4T T5NA D6D4 7NUA ...	CW	(JPL)
M89	6874	31-7	0804	Tue	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	6874	31-7	0907	Tue	V M8JF (x3) DE RIS9 (x2) //8157	CW	(JPL)
M89	8157	31-7	0907	Tue	V M8JF (x3) DE RIS9 (x2) //6874	CW	(JPL)
M89	10378	31-7	0912	Tue	V C4TY (x3) DE NSF5 (x2)	CW	(JPL)
M89	3340	31-7	1146	Tue	NJE8 DE H2IF NR 1211 / EX 1948 RKMS 9229 TO 9227 9221 = /465C AR	CW	(F5JBR-J)
M89	3340	31-7	1146	Tue	NJE8 DE H2IF NR 1211 / EX 1948 RKMS 9229 TO 9227 9221 = /465C AR K	CW	(F5JBR-J)
M89	3650	31-7	1702	Tue	QEF4 (x2) de SZW9 V CLd QSO with 7 outstations Q8BP à. LY9M RXZ6 GIN9 8JHD	CW	(F5JBR-J)
M89	3238	31-7	1730	Tue	V M8JF (x3) DE RIS9 (x2) //4870	CW	(JPL)
M89	4870	31-7	1730	Tue	V M8JF (x3) DE RIS9 (x2) //3238	CW	(JPL)
M89	3378	31-7	1732	Tue	V C4TY (x3) DE NSF5 (x2) //4783	CW	(JPL)
M89	4783	31-7	1732	Tue	V C4TY (x3) DE NSF5 (x2) //3378	CW	(JPL)
M89	4131	31-7	1733	Tue	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M95	3378	4-7	1746	Wed	V C4TY (x3) DE NSF5 (x2) //4783	CW	(JPL)
M95	4783	4-7	1746	Wed	V C4TY (x3) DE NSF5 (x2) //3378	CW	(JPL)
M95	3238	4-7	1747	Wed	V M8JF (x3) DE RIS9 (x2) //4870	CW	(JPL)
M95	4870	4-7	1747	Wed	V M8JF (x3) DE RIS9 (x2) //3238	CW	(JPL)
M95	4131	4-7	1754	Wed	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M95	4775	5-7	1238	Thu	FYE5 wkg BVF3	CW	(F5JBR-J)
M95	4775	5-7	1248	Thu	8FGR wkg NX8W S..Q K8EQ Jà MSG NR 62/EX 2043 RMKS CQ = C7S/GK8 AR	CW	(F5JBR-J)
M95	4775	5-7	1251	Thu	FYE5 wkg NG9E BVF3 NHY6 MSG NR 62 a	CW	(F5JBR-J)
M95	5801	9-7	1100	Mon	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M95	10180	9-7	1100	Mon	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M95	3642	9-7	1524	Mon	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)

M95	7602	9-7	1524	Mon	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M95	7602	9-7	2114	Mon	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M95	3642	9-7	2141	Mon	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M95	10180	10-7	1030	Tue	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M95	7602	13-7	1404	Fri	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M95	10180	13-7	1404	Fri	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M95	7602	13-7	1857	Fri	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M95	10180	13-7	1857	Fri	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M95	3642	14-7	1557	Sat	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M95	7602	14-7	1557	Sat	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M95	6421	24-7	1221	Tue	SDY7 (x6) NR 3969 EX 2024 = C7P5/K8T9 AR QSY NR 23 QSY NR 23 VVV	CW	(F5JBR)
M95	3642	24-7	1739	Tue	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M95	7602	24-7	1739	Tue	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M95	6421	25-7	1221	Wed	SDY7 (x6) NR 3969 EX 2024 = C7P5/K8T9 AR QSY NR 23 QSY NR 23 VVV	CW	(F5JBR-J)
M95	4381	25-7	1321	Wed	NR 183/EX 086 = 5WHZ/Z45T AR QSY 4QSY 4 VVV NR 84/EX 0809 = 3SD7/D9D AR QSY 5 QSY 5 VVV	CW	(F5JBR-J)
M95	4381	25-7	1321	Wed	NR 1204/EX 0809 = YDS7/DF9D AR QSY 5 QSY 5 VVV SD87 NR 18 AR NR 1205 / EX 0812 = 345S/7DS7 (repeat 2 times)	CW	(F5JBR-J)
M95	10180	26-7	0619	Thu	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M95	4118	26-7	1313	Thu	i.p. 05 05 50 50 50 50 50 AU3 3S 50 50 ...	CW	(JPL)
M95	5801	26-7	1313	Thu	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M95	10180	26-7	1313	Thu	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M95	3642	26-7	1758	Thu	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M95	7602	26-7	1758	Thu	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M95	9054	26-7	2348	Thu	HR 7G TO YR PSE CY NR 39 CK 16 35 0727 0.18 = .. T73 43A4 TTA TTU TT3 773 353 N3D ...	CW	(JPL)
M95	8073	27-7	0001	Fri	BNGC DE XSV85 //4364	CW	(JPL)
M95	4364	27-7	0012	Fri	V BNGC (x3) DE XSV85 (x2) HR 7G GA NR 0642 CK 139 35 0727 0655 = TU7 3.. 3A4 TAU 773 356 4AA NN3 434 ...	CW	(JPL)
M95	5801	27-7	0211	Fri	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M95	10180	27-7	0211	Fri	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M95	10180	27-7	0805	Fri	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M95	5801	27-7	1316	Fri	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M95	10180	27-7	1316	Fri	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M95	3642	28-7	1634	Sat	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M95	7602	28-7	1634	Sat	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M95	10180	31-7	0745	Tue	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL-Sib)
MC03	3250.5	1-7	1638	Sun	Chinese Air Defense time marker AU34567DNT 0034. AU34567DNT 0035. AU34567DNT 0036	CW	(F5JBR-J)
MC03	3250.5	4-7	1350	Wed	AU34567DNT UAT6. AU34567DNT UAT7. AU34567DNT UATD	CW	(F5JBR-J)
MC03	3250.5	5-7	1553	Thu	Chinese Air Defense tracking: 373 UAA358TTUUN3ADN3DA5D5T 373 UAA357TTUUN3ADNU6A5D5A 373 UAA357TTUUN3ADNNAA5D5A	CW	(F5JBR-CHN)
MC03	3250.5	5-7	1619	Thu	Chinese Air Defense tracking: 373 UAA357TTAUN3ANAU3A5DA7 373 UAA357TTUUN3ANAUNA5DA7	CW	(F5JBR-CHN)

					373 UAA357TTUUN3ANAU7 A5DAD		
MC03	8960	27-7	1130	Fri	Chinese Air Defense. Grid tracking. Garbled xmtr	CW	(AtB)
MC03	5089.5	27-7	1235	Fri	Chinese Air Defense. Grid tracking	CW	(AtB)
MC03	5089.5	27-7	1254	Fri	Chinese Air Defense. Grid tracking: 373 UAA4DT DN37U73 T76 5U. 373 UAA5NN D737AN6 T33 UT5U. 373 UAA57D DD37N5U 63U 5U	CW	(AB-RUS)
MC03	5089.5	27-7	1445	Fri	Chinese Air Defense. Grid tracking: 556 UAA3UA D73NAN3 TDN 4U. 373 4TA7DD NT35U57 TNA 43. 373 UAA3U3 DN373DN T75 43	CW	(AB-RUS)
MX	5153.7	9-7	1923	Mon	Beacon D, Sevastopol	CW	(MPJ)
MX	5154.1	9-7	1924	Mon	Beacon A, Astrakhan	CW	(MPJ)
MX	16332.2	13-7	0157	Fri	Beacon F, Vladivostok	CW	(AB-J)
MX	13528.2	23-7	0634	Mon	Beacon F, Vladivostok	CW	(F5JBR-J)
MX	16332.2	23-7	0634	Mon	Beacon F, Vladivostok	CW	(F5JBR-J)
MX	20048.2	23-7	0634	Mon	Beacon F, Vladivostok	CW	(F5JBR-J)
MX	13528.4	23-7	0635	Mon	Beacon M, Magadan	CW	(F5JBR-J)
MX	16332.4	23-7	0635	Mon	Beacon M, Magadan	CW	(F5JBR-J)
MX	8495.4	25-7	1710	Wed	Beacon M, Magadan	CW	(F4LKC)
MX	8495.3	27-7	1107	Fri	Beacon K, Petropavlovsk Kamchatskiy	CW	(AtB)
MX	8495.4	27-7	1110	Fri	Beacon M, Magadan	CW	(AtB)
MX	8495.2	27-7	1229	Fri	Beacon F, Vladivostok	CW	(AB-RUS)
MX	8495.3	27-7	1229	Fri	Beacon K, Petropavlovsk Kamchatskiy	CW	(AB-RUS)
MX	8495.4	27-7	1229	Fri	Beacon M, Magadan	CW	(AB-RUS)
MX	10872.2	27-7	1242	Fri	Beacon F, Vladivostok	CW	(AB-J)
MX	10872.4	27-7	1242	Fri	Beacon M, Magadan	CW	(AB-J)
MX	16332.2	27-7	1244	Fri	Beacon F, Vladivostok	CW	(AB-J)
MX	13528.2	27-7	1245	Fri	Beacon F, Vladivostok	CW	(AB-J)
MX	13528.3	27-7	1245	Fri	Beacon K, Petropavlovsk Kamchatskiy	CW	(AB-J)
MX	13528.4	27-7	1245	Fri	Beacon M, Magadan	CW	(AB-J)
MX	7039.2	27-7	1246	Fri	Beacon F, Vladivostok	CW	(AB-J)
MX	7039.3	27-7	1246	Fri	Beacon K, Petropavlovsk Kamchatskiy	CW	(AB-J)
MX	7039.4	27-7	1246	Fri	Beacon M, Magadan	CW	(AB-J)
MX	5154.2	27-7	1247	Fri	Beacon F, Vladivostok	CW	(AB-J)
MX	5154.3	27-7	1247	Fri	Beacon K, Petropavlovsk Kamchatskiy	CW	(AB-J)
MX	16332	27-7	1250	Fri	Beacon C, Moscow	CW	(AB)
P03a	12385	1-7	1410	Sun	Polish Intel.	BPSK-63	(AB)
P03a	12385	1-7	1415	Sun	Polish Intel.	BPSK-63	(AB)
P03a	14769	1-7	1440	Sun	Polish Intel.	BPSK-63	(AB)
P03a	14769	1-7	1445	Sun	Polish Intel.	BPSK-63	(AB)
P03a	9130	1-7	1500	Sun	Polish Intel.	BPSK-63	(AB)
P03a	9130	1-7	1505	Sun	Polish Intel.	BPSK-63	(AB)
P03a	4840	1-7	1725	Sun	Polish Intel.	BPSK-63	(AB/MPJ)

P03a	4840	1-7	1730	Sun	Polish Intel.	BPSK-63	(AB/MPJ)
P03a	12385	2-7	1410	Mon	Polish Intel.	BPSK-63	(AB)
P03a	12385	2-7	1415	Mon	Polish Intel.	BPSK-63	(AB)
P03a	7840	2-7	1435	Mon	Polish Intel.	BPSK-63	(AB)
P03a	7840	2-7	1440	Mon	Polish Intel.	BPSK-63	(AB)
P03a	17505	2-7	1635	Mon	Polish Intel.	BPSK-63	(MPJ)
P03a	17505	2-7	1640	Mon	Polish Intel.	BPSK-63	(MPJ)
P03a	14940	3-7	1140	Tue	Polish Intel.	BPSK-63	(AB)
P03a	14940	3-7	1145	Tue	Polish Intel.	BPSK-63	(AB)
P03a	16357	3-7	1415	Tue	Polish Intel.	BPSK-63	(AB-POL/MPJ)
P03a	16357	3-7	1420	Tue	Polish Intel.	BPSK-63	(AB-POL/MPJ)
P03a	4840	3-7	1725	Tue	Polish Intel.	BPSK-63	(AB)
P03a	4840	3-7	1730	Tue	Polish Intel.	BPSK-63	(AB)
P03a	11107	4-7	1225	Wed	Polish Intel.	BPSK-63	(AB)
P03a	11107	4-7	1230	Wed	Polish Intel.	BPSK-63	(AB)
P03a	16357	4-7	1500	Wed	Polish Intel.	BPSK-63	(AB)
P03a	16357	4-7	1505	Wed	Polish Intel.	BPSK-63	(AB)
P03a	16125	4-7	1600	Wed	Polish Intel.	BPSK-63	(AB)
P03a	16125	4-7	1605	Wed	Polish Intel.	BPSK-63	(AB)
P03a	16357	5-7	1415	Thu	Polish Intel.	BPSK-63	(AB)
P03a	16357	5-7	1420	Thu	Polish Intel.	BPSK-63	(AB)
P03a	14769	6-7	1440	Fri	Polish Intel.	BPSK-63	(AB)
P03a	14769	6-7	1445	Fri	Polish Intel.	BPSK-63	(AB)
P03a	9130	6-7	1500	Fri	Polish Intel.	BPSK-63	(AB)
P03a	9130	6-7	1505	Fri	Polish Intel.	BPSK-63	(AB)
P03a	14940	7-7	1140	Sat	Polish Intel.	BPSK-63	(AB/MPJ)
P03a	14940	7-7	1145	Sat	Polish Intel.	BPSK-63	(AB/MPJ)
P03a	11107	7-7	1225	Sat	Polish Intel.	BPSK-63	(AB/MPJ)
P03a	11107	7-7	1230	Sat	Polish Intel.	BPSK-63	(AB/MPJ)
P03a	7840	7-7	1435	Sat	Polish Intel.	BPSK-63	(AB)
P03a	7840	7-7	1440	Sat	Polish Intel.	BPSK-63	(AB)
P03a	16125	7-7	1600	Sat	Polish Intel.	BPSK-63	(AB)
P03a	16125	7-7	1605	Sat	Polish Intel.	BPSK-63	(AB)
P03a	12385	8-7	1410	Sun	Polish Intel.	BPSK-63	(AB/MPJ)
P03a	12385	8-7	1415	Sun	Polish Intel.	BPSK-63	(AB/MPJ)
P03a	14769	8-7	1440	Sun	Polish Intel.	BPSK-63	(AB)
P03a	14769	8-7	1445	Sun	Polish Intel.	BPSK-63	(AB)
P03a	9130	8-7	1500	Sun	Polish Intel.	BPSK-63	(AB/MPJ)
P03a	9130	8-7	1505	Sun	Polish Intel.	BPSK-63	(AB/MPJ)
P03a	4840	8-7	1725	Sun	Polish Intel.	BPSK-63	(AB)

P03a	4840	8-7	1730	Sun	Polish Intel.	BPSK-63	(AB)
P03a	12385	9-7	1410	Mon	Polish Intel.	BPSK-63	(AB)
P03a	12385	9-7	1415	Mon	Polish Intel.	BPSK-63	(AB)
P03a	17505	9-7	1635	Mon	Polish Intel.	BPSK-63	(AB)
P03a	17505	9-7	1640	Mon	Polish Intel.	BPSK-63	(AB)
P03a	14940	10-7	1140	Tue	Polish Intel.	BPSK-63	(AB)
P03a	14940	10-7	1145	Tue	Polish Intel.	BPSK-63	(AB)
P03a	11107	11-7	1225	Wed	Polish Intel.	BPSK-63	(AB)
P03a	11107	11-7	1230	Wed	Polish Intel.	BPSK-63	(AB)
P03a	7840	11-7	1435	Wed	Polish Intel.	BPSK-63	(AB)
P03a	7840	11-7	1440	Wed	Polish Intel.	BPSK-63	(AB)
P03a	16357	11-7	1500	Wed	Polish Intel.	BPSK-63	(AB)
P03a	16357	11-7	1505	Wed	Polish Intel.	BPSK-63	(AB)
P03a	16125	11-7	1600	Wed	Polish Intel.	BPSK-63	(AB)
P03a	16125	11-7	1605	Wed	Polish Intel.	BPSK-63	(AB)
P03a	16357	12-7	1415	Thu	Polish Intel.	BPSK-63	(AB)
P03a	16357	12-7	1420	Thu	Polish Intel.	BPSK-63	(AB)
P03a	14769	13-7	1440	Fri	Polish Intel.	BPSK-63	(AB)
P03a	14769	13-7	1445	Fri	Polish Intel.	BPSK-63	(AB)
P03a	9130	13-7	1500	Fri	Polish Intel.	BPSK-63	(AB)
P03a	9130	13-7	1505	Fri	Polish Intel.	BPSK-63	(AB)
P03a	17504	13-7	1635	Fri	Polish Intel.	BPSK-63	(AB/MPJ)
P03a	17504	13-7	1640	Fri	Polish Intel.	BPSK-63	(AB/MPJ)
P03a	14940	14-7	1140	Sat	Polish Intel.	BPSK-63	(AB)
P03a	14940	14-7	1145	Sat	Polish Intel.	BPSK-63	(AB)
P03a	11107	14-7	1225	Sat	Polish Intel.	BPSK-63	(AB)
P03a	11107	14-7	1230	Sat	Polish Intel.	BPSK-63	(AB)
P03a	7840	14-7	1435	Sat	Polish Intel.	BPSK-63	(AB/MPJ)
P03a	7840	14-7	1440	Sat	Polish Intel.	BPSK-63	(AB/MPJ)
P03a	16357	14-7	1500	Sat	Polish Intel.	BPSK-63	(AB-POL)
P03a	16357	14-7	1505	Sat	Polish Intel.	BPSK-63	(AB-POL)
P03a	16125	14-7	1600	Sat	Polish Intel.	BPSK-63	(AB)
P03a	16125	14-7	1605	Sat	Polish Intel.	BPSK-63	(AB)
P03a	12385	15-7	1410	Sun	Polish Intel.	BPSK-63	(AB)
P03a	12385	15-7	1415	Sun	Polish Intel.	BPSK-63	(AB)
P03a	14769	15-7	1440	Sun	Polish Intel.	BPSK-63	(AB)
P03a	14769	15-7	1445	Sun	Polish Intel.	BPSK-63	(AB)
P03a	9130	15-7	1500	Sun	Polish Intel.	BPSK-63	(AB/MPJ)
P03a	9130	15-7	1505	Sun	Polish Intel.	BPSK-63	(AB/MPJ)
P03a	4840	15-7	1725	Sun	Polish Intel.	BPSK-63	(AB)

P03a	4840	15-7	1730	Sun	Polish Intel.	BPSK-63	(AB)
P03a	17505	16-7	1635	Mon	Polish Intel.	BPSK-63	(AB)
P03a	17505	16-7	1640	Mon	Polish Intel.	BPSK-63	(AB)
P03a	14940	17-7	1140	Tue	Polish Intel.	BPSK-63	(AB)
P03a	14940	17-7	1145	Tue	Polish Intel.	BPSK-63	(AB)
P03a	16357	17-7	1415	Tue	Polish Intel.	BPSK-63	(AB-G)
P03a	16357	17-7	1420	Tue	Polish Intel.	BPSK-63	(AB-G)
P03a	4840	17-7	1725	Tue	Polish Intel.	BPSK-63	(AB)
P03a	4840	17-7	1730	Tue	Polish Intel.	BPSK-63	(AB)
P03a	11107	18-7	1225	Wed	Polish Intel.	BPSK-63	(AB)
P03a	11107	18-7	1230	Wed	Polish Intel.	BPSK-63	(AB)
P03a	7840	18-7	1435	Wed	Polish Intel.	BPSK-63	(AB)
P03a	7840	18-7	1440	Wed	Polish Intel.	BPSK-63	(AB)
P03a	16357	18-7	1500	Wed	Polish Intel.	BPSK-63	(AB/MPJ)
P03a	16357	18-7	1505	Wed	Polish Intel.	BPSK-63	(AB/MPJ)
P03a	16125	18-7	1600	Wed	Polish Intel.	BPSK-63	(AB)
P03a	16125	18-7	1605	Wed	Polish Intel.	BPSK-63	(AB)
P03a	16357	19-7	1415	Thu	Polish Intel.	BPSK-63	(AB)
P03a	16357	19-7	1420	Thu	Polish Intel.	BPSK-63	(AB)
P03a	14769	20-7	1440	Fri	Polish Intel.	BPSK-63	(AB)
P03a	14769	20-7	1445	Fri	Polish Intel.	BPSK-63	(AB)
P03a	9130	20-7	1500	Fri	Polish Intel.	BPSK-63	(AB)
P03a	9130	20-7	1505	Fri	Polish Intel.	BPSK-63	(AB)
P03a	17504	20-7	1635	Fri	Polish Intel.	BPSK-63	(AB)
P03a	17504	20-7	1640	Fri	Polish Intel.	BPSK-63	(AB)
P03a	14940	21-7	1140	Sat	Polish Intel.	BPSK-63	(AB)
P03a	14940	21-7	1145	Sat	Polish Intel.	BPSK-63	(AB)
P03a	11107	21-7	1225	Sat	Polish Intel.	BPSK-63	(AB/MPJ)
P03a	11107	21-7	1230	Sat	Polish Intel.	BPSK-63	(AB/MPJ)
P03a	7840	21-7	1435	Sat	Polish Intel.	BPSK-63	(AB)
P03a	7840	21-7	1440	Sat	Polish Intel.	BPSK-63	(AB)
P03a	16357	21-7	1500	Sat	Polish Intel.	BPSK-63	(AB)
P03a	16357	21-7	1505	Sat	Polish Intel.	BPSK-63	(AB)
P03a	16125	21-7	1600	Sat	Polish Intel.	BPSK-63	(AB)
P03a	16125	21-7	1605	Sat	Polish Intel.	BPSK-63	(AB)
P03a	12385	22-7	1410	Sun	Polish Intel.	BPSK-63	(AB/MPJ)
P03a	12385	22-7	1415	Sun	Polish Intel.	BPSK-63	(AB/MPJ)
P03a	14769	22-7	1440	Sun	Polish Intel.	BPSK-63	(AB)
P03a	14769	22-7	1445	Sun	Polish Intel.	BPSK-63	(AB)
P03a	9130	22-7	1500	Sun	Polish Intel.	BPSK-63	(AB)

P03a	9130	22-7	1505	Sun	Polish Intel.	BPSK-63	(AB)
P03a	4840	22-7	1725	Sun	Polish Intel.	BPSK-63	(AB)
P03a	4840	22-7	1730	Sun	Polish Intel.	BPSK-63	(AB)
P03a	17505	23-7	1635	Mon	Polish Intel.	BPSK-63	(AB)
P03a	17505	23-7	1640	Mon	Polish Intel.	BPSK-63	(AB)
P03a	11107	25-7	1225	Wed	Polish Intel.	BPSK-63	(MPJ)
P03a	11107	25-7	1230	Wed	Polish Intel.	BPSK-63	(MPJ)
P03a	7840	25-7	1435	Wed	Polish Intel.	BPSK-63	(AB)
P03a	7840	25-7	1440	Wed	Polish Intel.	BPSK-63	(AB)
P03a	16357	25-7	1500	Wed	Polish Intel.	BPSK-63	(AB)
P03a	16357	25-7	1505	Wed	Polish Intel.	BPSK-63	(AB)
P03a	16125	25-7	1600	Wed	Polish Intel.	BPSK-63	(AB)
P03a	16125	25-7	1605	Wed	Polish Intel.	BPSK-63	(AB)
P03a	14769	27-7	1440	Fri	Polish Intel.	BPSK-63	(AB/MPJ)
P03a	14769	27-7	1445	Fri	Polish Intel.	BPSK-63	(AB/MPJ)
P03a	9130	27-7	1500	Fri	Polish Intel.	BPSK-63	(AB/MPJ)
P03a	9130	27-7	1505	Fri	Polish Intel.	BPSK-63	(AB)
P03a	17504	27-7	1635	Fri	Polish Intel.	BPSK-63	(AB-POL/MPJ-AUT)
P03a	17504	27-7	1640	Fri	Polish Intel.	BPSK-63	(AB-POL/MPJ-AUT)
P03a	14940	28-7	1140	Sat	Polish Intel.	BPSK-63	(AB)
P03a	14940	28-7	1145	Sat	Polish Intel.	BPSK-63	(AB)
P03a	7840	28-7	1435	Sat	Polish Intel.	BPSK-63	(AB/MPJ)
P03a	7840	28-7	1440	Sat	Polish Intel.	BPSK-63	(AB/MPJ)
P03a	16357	28-7	1500	Sat	Polish Intel.	BPSK-63	(AB)
P03a	16357	28-7	1505	Sat	Polish Intel.	BPSK-63	(AB)
P03a	16125	28-7	1600	Sat	Polish Intel.	BPSK-63	(AB)
P03a	16125	28-7	1605	Sat	Polish Intel.	BPSK-63	(AB)
P03a	12385	29-7	1410	Sun	Polish Intel.	BPSK-63	(AB/MPJ)
P03a	12385	29-7	1415	Sun	Polish Intel.	BPSK-63	(AB/MPJ)
P03a	14769	29-7	1440	Sun	Polish Intel.	BPSK-63	(AB)
P03a	14769	29-7	1445	Sun	Polish Intel.	BPSK-63	(AB)
P03a	9130	29-7	1500	Sun	Polish Intel.	BPSK-63	(AB)
P03a	9130	29-7	1505	Sun	Polish Intel.	BPSK-63	(AB)
P03a	4840	29-7	1725	Sun	Polish Intel.	BPSK-63	(AB)
P03a	4840	29-7	1730	Sun	Polish Intel.	BPSK-63	(AB)
P03a	16357	31-7	1415	Tue	Polish Intel.	BPSK-63	(AB)
P03a	16357	31-7	1420	Tue	Polish Intel.	BPSK-63	(AB)
P03b	9150	1-7	0610	Sun	Polish Intel.	QPSK-63	(AB)
P03b	9150	1-7	0615	Sun	Polish Intel.	QPSK-63	(AB)
P03b	15800	4-7	1120	Wed	Polish Intel.	QPSK-63	(AB)

P03b	15800	4-7	1125	Wed	Polish Intel.	QPSK-63	(AB)
P03b	5231	4-7	2035	Wed	Polish Intel.	QPSK-63	(AB)
P03b	5231	4-7	2040	Wed	Polish Intel.	QPSK-63	(AB)
P03b	5231	6-7	2035	Fri	Polish Intel.	QPSK-63	(AB)
P03b	5231	6-7	2040	Fri	Polish Intel.	QPSK-63	(AB)
P03b	9150	7-7	0610	Sat	Polish Intel.	QPSK-63	(AB)
P03b	9150	7-7	0610	Sat	Polish Intel.	QPSK-63	(AB)
P03b	9150	7-7	0615	Sat	Polish Intel.	QPSK-63	(AB)
P03b	9150	7-7	0615	Sat	Polish Intel.	QPSK-63	(AB)
P03b	15800	8-7	1120	Sun	Polish Intel.	QPSK-63	(AB)
P03b	15800	8-7	1125	Sun	Polish Intel.	QPSK-63	(AB)
P03b	15800	11-7	1120	Wed	Polish Intel.	QPSK-63	(AB)
P03b	15800	11-7	1125	Wed	Polish Intel.	QPSK-63	(AB)
P03b	5231	11-7	2035	Wed	Polish Intel.	QPSK-63	(AB)
P03b	5231	11-7	2040	Wed	Polish Intel.	QPSK-63	(AB)
P03b	5231	13-7	2035	Fri	Polish Intel.	QPSK-63	(AB)
P03b	5231	13-7	2040	Fri	Polish Intel.	QPSK-63	(AB)
P03b	9150	14-7	0610	Sat	Polish Intel.	QPSK-63	(AB)
P03b	9150	14-7	0615	Sat	Polish Intel.	QPSK-63	(AB)
P03b	9150	15-7	0610	Sun	Polish Intel.	QPSK-63	(AB)
P03b	9150	15-7	0615	Sun	Polish Intel.	QPSK-63	(AB)
P03b	15800	15-7	1120	Sun	Polish Intel.	QPSK-63	(AB)
P03b	15800	15-7	1125	Sun	Polish Intel.	QPSK-63	(AB)
P03b	15800	18-7	1120	Wed	Polish Intel.	QPSK-63	(AB)
P03b	15800	18-7	1125	Wed	Polish Intel.	QPSK-63	(AB)
P03b	5231	18-7	2035	Wed	Polish Intel.	QPSK-63	(AB)
P03b	5231	18-7	2040	Wed	Polish Intel.	QPSK-63	(AB)
P03b	5231	20-7	2035	Fri	Polish Intel.	QPSK-63	(AB)
P03b	5231	20-7	2040	Fri	Polish Intel.	QPSK-63	(AB)
P03b	9150	21-7	0610	Sat	Polish Intel.	QPSK-63	(AB)
P03b	9150	21-7	0615	Sat	Polish Intel.	QPSK-63	(AB)
P03b	9150	22-7	0610	Sun	Polish Intel.	QPSK-63	(AB)
P03b	9150	22-7	0615	Sun	Polish Intel.	QPSK-63	(AB)
P03b	15800	22-7	1120	Sun	Polish Intel.	QPSK-63	(AB)
P03b	15800	22-7	1125	Sun	Polish Intel.	QPSK-63	(AB)
P03b	15800	25-7	1120	Wed	Polish Intel.	QPSK-63	(AB)
P03b	15800	25-7	1125	Wed	Polish Intel.	QPSK-63	(AB)
P03b	5231	25-7	2035	Wed	Polish Intel.	QPSK-63	(AB)
P03b	5231	25-7	2040	Wed	Polish Intel.	QPSK-63	(AB)
P03b	5231	27-7	2035	Fri	Polish Intel.	QPSK-63	(AB)

P03b	5231	27-7	2040	Fri	Polish Intel.	QPSK-63	(AB)
P03b	9150	28-7	0610	Sat	Polish Intel.	QPSK-63	(AB)
P03b	9150	28-7	0615	Sat	Polish Intel.	QPSK-63	(AB)
P03b	9150	29-7	0610	Sun	Polish Intel.	QPSK-63	(AB)
P03b	9150	29-7	0615	Sun	Polish Intel.	QPSK-63	(AB)
P03b	15800	29-7	1120	Sun	Polish Intel.	QPSK-63	(AB)
P03b	15800	29-7	1125	Sun	Polish Intel.	QPSK-63	(AB)
POL	10210	5-7	1000	Thu	Polish Intel.	FSK 400/800	(AB)
POL	10210	5-7	1005	Thu	Polish Intel.	FSK 400/800	(AB)
POL	10210	9-7	1000	Mon	Polish Intel.	FSK 400/800	(AB)
POL	10210	9-7	1005	Mon	Polish Intel.	FSK 400/800	(AB)
POL	10210	12-7	1000	Thu	Polish Intel.	FSK 400/800	(AB)
POL	10210	12-7	1005	Thu	Polish Intel.	FSK 400/800	(AB)
POL	10210	16-7	1000	Mon	Polish Intel.	FSK 400/800	(AB)
POL	10210	16-7	1005	Mon	Polish Intel.	FSK 400/800	(AB)
POL	10210	19-7	1000	Thu	Polish Intel.	FSK 400/800	(AB/AAI)
POL	10210	19-7	1005	Thu	Polish Intel.	FSK 400/800	(AB/AAI)
POL	10210	23-7	1000	Mon	Polish Intel.	FSK 400/800	(AB)
POL	10210	23-7	1005	Mon	Polish Intel.	FSK 400/800	(AB)
POL	10210	26-7	1000	Thu	Polish Intel.	FSK 400/800	(AB)
POL	10210	26-7	1005	Thu	Polish Intel.	FSK 400/800	(AB)
POL	10210	30-7	1000	Mon	Polish Intel.	FSK 400/800	(AB)
POL	10210	30-7	1005	Mon	Polish Intel.	FSK 400/800	(AB)
Q26	9111	24-7	2312	Tue	JYJYJYJY QSA 3 HR EF MSG GA PSE CY 0064 16 18 0725 0700 3503---0181 5482 8016 4942 8145 9566 9623 6587 7289 8296 0035	4+4 QPSK 75/3000 LSB	(DK8OK)
Q26	9054	26-7	2345	Thu	Messages	4+4 QPSK 75/3000 LSB	(JPL)
Q26	4364	27-7	0003	Fri	Messages //8076 by error, switched to 8073 kHz	4+4 QPSK 75/3000 LSB	(JPL)
Q26	8073	27-7	0003	Fri	Messages //8076 by error, switched to 8073 kHz	4+4 QPSK 75/3000 LSB	(JPL)
Q26	8076	27-7	0003	Fri	Messages //8076 by error, switched to 8073 kHz	4+4 QPSK 75/3000 LSB	(JPL)
RADv	4230	5-7	1641	Thu	Russian Air Defense. Tracking	LSB	(F5JBR)
S06	9492	6-7	2000	Fri	483 483 483 00000	USB	(AB)
S06	7528	6-7	2100	Fri	483 483 483 00000	USB	(AB)
S06	6773	7-7	1900	Sat	263 263 263 00000	USB	(AB)
S06	5773	7-7	2000	Sat	263 263 263 00000	USB	(AB)
S06	15721	10-7	0400	Tue	480 msg	USB	(SDX)
S06	13469	12-7	0930	Thu	842 670 38 43091 44131 71240 ... 81899 58689 44336 670 38 00000	USB	(AB-RUS)

S06	15875	13-7	0830	Fri	842 670 38 43091 44131 71240 ... 81899 58689 44336 670 38 00000	USB	(AB-RUS)
S06	13469	13-7	0930	Fri	842 670 38 43091 44131 71240 ... 81899 58689 44336 670 38 00000	USB	(AB-RUS)
S06	9492	20-7	2000	Fri	483 483 483 00000	USB	(AB)
S06	6773	21-7	1900	Sat	263 263 263 00000	USB	(AB)
S06	5773	21-7	2000	Sat	263 263 263 00000	USB	(AB)
S06s	8221	2-7	0830	Mon	371 859 6 43785 67625 00555 24616 50591 07931 859 6 0000	USB	(AB)
S06s	9353	2-7	0840	Mon	371 859 6 43785 67625 00555 24616 50591 07931 859 6 0000	USB	(AB)
S06s	16380	2-7	0900	Mon	872 465 9 25861 33432 89219 32494 27142 32842 20002 98238 22044 465 9 00000	USB	(AB)
S06s	14835	2-7	0910	Mon	872 465 9 25861 33432 89219 32494 27142 32842 20002 98238 22044 465 9 00000	USB	(AB)
S06s	10230	2-7	1200	Mon	831 956 7 43334 20147 20494 42014 81051 46544 24613 956 7 00000	USB	(AB/MPJ)
S06s	12165	2-7	1210	Mon	831 956 7 43334 20147 20494 42014 81051 46544 24613 956 7 00000	USB	(AB/MPJ)
S06s	15945	3-7	0600	Tue	438 907 5 33699 39998 20667 25947 83964 907 5 00000	USB	(AB)
S06s	16945	3-7	0610	Tue	438 907 5 33699 39998 20667 25947 83964 907 5 00000	USB	(AB)
S06s	5430	3-7	0700	Tue	374 591 6 34242 83255 55945 60494 93543 85422 591 6 00000	USB	(AB)
S06s	6780	3-7	0715	Tue	374 591 6 34242 83255 55945 60494 93543 85422 591 6 00000	USB	(AB)
S06s	7365	3-7	0730	Tue	427 901 5 12444 38625 89531 52814 95931 901 5 00000	USB	(AB)
S06s	11655	3-7	0740	Tue	427 901 5 12444 38625 89531 52814 95931 901 5 00000	USB	(AB)
S06s	14373	3-7	0800	Tue	352 980 6 24585 26572 84585 24454 58546 33183 980 6 00000	USB	(AB)
S06s	12935	3-7	0810	Tue	352 980 6 24585 26572 84585 24454 58546 33183 980 6 00000	USB	(AB)
S06s	4820	3-7	1000	Tue	893 540 6 37832 37313 45597 79532 44572 14494 540 6 00000	USB	(AB-UKR/MPJ-AUT)
S06s	5660	3-7	1010	Tue	893 540 6 37832 37313 45597 79532 44572 14494 540 6 00000	USB	(AB-UKR/MPJ-AUT)
S06s	6810	3-7	1100	Tue	754 982 6 74228 56551 44999 47773 45555 54456 982 6 0000	USB	(AB-UKR/MPJ-AUT)
S06s	7560	3-7	1110	Tue	754 982 6 74228 56551 44999 47773 45555 54456 982 6 0000	USB	(AB-UKR/MPJ-AUT)
S06s	6766	3-7	1500	Tue	537 942 6 02883 25473 26464 44206 58202 75078 942 6 00000	USB	(AB/MPJ)
S06s	7744	3-7	1510	Tue	537 942 6 02883 25473 26464 44206 58202 75078 942 6 00000	USB	(AB/MPJ)
S06s	12110	4-7	0730	Wed	735 982 6 35861 33432 89319 32494 37142 32842 982 6 00000	USB	(AB)
S06s	14977	4-7	0740	Wed	735 982 6 35861 33432 89319 32494 37142 32842 982 6 00000	USB	(AB)
S06s	9485	4-7	0820	Wed	471 298 5 32842 30003 98328 33055 31123 298 5 00000	USB	(AB)
S06s	11085	4-7	0830	Wed	471 298 5 32842 30003 98328 33055 31123 298 5 00000	USB	(AB)
S06s	11565	4-7	0830	Wed	464 980 5 37313 45597 79532 44572 14493 980 5 00000	USB	(AB)
S06s	12560	4-7	0840	Wed	464 980 5 37313 45597 79532 44572 14493 980 5 00000	USB	(AB)
S06s	14580	4-7	1000	Wed	729 835 6 76458 59421 21677 15542 26059 49385 835 6 00000	USB	(AB/MPJ)
S06s	16020	4-7	1010	Wed	729 835 6 76458 59421 21677 15542 26059 49385 835 6 00000	USB	(AB/MPJ)
S06s	9255	5-7	0930	Thu	317 928 5 21767 53672 11834 81022 36903 928 5 00000	USB	(AB)
S06s	10325	5-7	0940	Thu	317 928 5 21767 53672 11834 81022 36903 928 5 00000	USB	(AB)
S06s	13145	5-7	1200	Thu	425 910 6 33796 13577 74526 46647 79302 53516 910 6 00000	USB	(AB/MPJ)
S06s	14535	5-7	1210	Thu	425 910 6 33796 13577 74526 46647 79302 53516 910 6 00000	USB	(AB/MPJ)
S06s	6844	6-7	0900	Fri	624 835 7 83512 00945 86687 32143 99875 77565 00998 835 7 00000	USB	(AB-POL)
S06s	7161	6-7	0910	Fri	624 835 7 83512 00945 86687 32143 99875 77565 00998 835 7 00000	USB	(AB-POL)
S06s	10290	6-7	0930	Fri	516 872 9 67490 33567 55001 96483 78654 76578 96001 44338 22765 872 9 00000	USB	(AB)

S06s	9655	6-7	0940	Fri	516 872 9 67490 33567 55001 96483 78654 76578 96001 44338 22765 872 9 00000	USB	(AB)
S06s	12460	7-7	0800	Sat	254 937 6 01405 15003 24357 60583 54545 50128 937 6 00000	USB	(AB)
S06s	10250	7-7	0810	Sat	254 937 6 01405 15003 24357 60583 54545 50128 937 6 00000	USB	(AB)
S06s	8221	9-7	0830	Mon	371 859 6 43785 67625 00555 24616 50591 07931 859 6 0000	USB	(AB)
S06s	9353	9-7	0840	Mon	371 859 6 43785 67625 00555 24616 50591 07931 859 6 0000	USB	(AB)
S06s	16380	9-7	0900	Mon	872 465 9 25861 33432 89219 32494 27142 32842 20002 98238 22044 465 9 00000	USB	(AB)
S06s	14835	9-7	0910	Mon	872 465 9 25861 33432 89219 32494 27142 32842 20002 98238 22044 465 9 00000	USB	(AB)
S06s	10230	9-7	1200	Mon	831 956 7 43334 20147 20494 42014 81051 46544 24613 956 7 00000	USB	(AB/MPJ)
S06s	12165	9-7	1210	Mon	831 956 7 43334 20147 20494 42014 81051 46544 24613 956 7 00000	USB	(AB/MPJ)
S06s	15945	10-7	0600	Tue	438 907 5 33699 39998 20667 25947 83964 907 5 00000	USB	(AB-AUT)
S06s	16945	10-7	0610	Tue	438 907 5 33699 39998 20667 25947 83964 907 5 00000	USB	(AB-AUT)
S06s	5430	10-7	0700	Tue	374 591 6 34242 83255 55945 60494 93543 85422 591 6 00000	USB	(AB)
S06s	6780	10-7	0715	Tue	374 591 6 34242 83255 55945 60494 93543 85422 591 6 00000	USB	(AB)
S06s	7365	10-7	0730	Tue	427 901 5 12444 38625 89531 52814 95931 901 5 00000	USB	(AB)
S06s	11655	10-7	0740	Tue	427 901 5 12444 38625 89531 52814 95931 901 5 00000	USB	(AB)
S06s	14373	10-7	0800	Tue	352 980 6 24585 26572 84585 24454 58546 33183 980 6 00000	USB	(AB)
S06s	12935	10-7	0810	Tue	352 980 6 24585 26572 84585 24454 58546 33183 980 6 00000	USB	(AB)
S06s	4820	10-7	1000	Tue	893 540 6 37832 37313 45597 79532 44572 14494 540 6 00000	USB	(AB-UKR)
S06s	5660	10-7	1010	Tue	893 540 6 37832 37313 45597 79532 44572 14494 540 6 00000	USB	(AB-UKR/MPJ)
S06s	6810	10-7	1100	Tue	754 982 6 74228 56551 44999 47773 45555 54456 982 6 0000	USB	(AB/MPJ)
S06s	7560	10-7	1110	Tue	754 982 6 74228 56551 44999 47773 45555 54456 982 6 0000	USB	(AB/MPJ)
S06s	7744	10-7	1510	Tue	537 942 6 02883 25473 26464 44206 58202 75078 942 6 00000	USB	(MPJ)
S06s	12110	11-7	0732	Wed	735 982 6 35861 33432 89319 32494 37142 32842 982 6 00000 Late start	USB	(AB)
S06s	14977	11-7	0740	Wed	735 982 6 35861 33432 89319 32494 37142 32842 982 6 00000	USB	(AB)
S06s	9485	11-7	0820	Wed	471 298 5 32842 30003 98328 33055 31123 298 5 00000	USB	(AB)
S06s	11085	11-7	0830	Wed	471 298 5 32842 30003 98328 33055 31123 298 5 00000	USB	(AB)
S06s	11565	11-7	0830	Wed	464 980 5 37313 45597 79532 44572 14493 980 5 00000	USB	(AB)
S06s	12560	11-7	0840	Wed	464 980 5 37313 45597 79532 44572 14493 980 5 00000	USB	(AB)
S06s	14580	11-7	1000	Wed	729 835 6 76458 59421 21677 15542 26059 49385 835 6 00000	USB	(AB/MPJ)
S06s	16020	11-7	1010	Wed	729 835 6 76458 59421 21677 15542 26059 49385 835 6 00000	USB	(AB/MPJ)
S06s	9255	12-7	0930	Thu	317 928 5 21767 53672 11834 81022 36903 928 5 00000	USB	(AB)
S06s	10325	12-7	0940	Thu	317 928 5 21767 53672 11834 81022 36903 928 5 00000	USB	(AB)
S06s	13145	12-7	1200	Thu	425 910 6 33796 13577 74526 46647 79302 53516 910 6 00000	USB	(AB/MPJ)
S06s	14535	12-7	1210	Thu	425 910 6 33796 13577 74526 46647 79302 53516 910 6 00000	USB	(AB/MPJ)
S06s	6844	13-7	0900	Fri	624 835 7 83512 00945 86687 32143 99875 77565 00998 835 7 00000	USB	(AB)
S06s	7161	13-7	0910	Fri	624 835 7 83512 00945 86687 32143 99875 77565 00998 835 7 00000	USB	(AB)
S06s	10290	13-7	0930	Fri	516 872 9 67490 33567 55001 96483 78654 76578 96001 44338 22765 872 9 00000	USB	(AB)
S06s	9655	13-7	0940	Fri	516 872 9 67490 33567 55001 96483 78654 76578 96001 44338 22765 872 9 00000	USB	(AB)
S06s	8221	16-7	0830	Mon	371 928 5 58202 44206 29464 25472 02883 928 5 00000	USB	(AB)
S06s	9353	16-7	0840	Mon	371 928 5 58202 44206 29464 25472 02883 928 5 00000	USB	(AB)

S06s	16380	16-7	0900	Mon	872 416 5 52725 74228 56551 44238 95628 416 5 00000	USB	(AB)
S06s	14835	16-7	0910	Mon	872 416 5 52725 74228 56551 44238 95628 416 5 00000	USB	(AB)
S06s	10230	16-7	1200	Mon	831 594 6 88443 36772 98493 36340 32048 34338 594 6 00000	USB	(AB/MPJ)
S06s	12165	16-7	1210	Mon	831 594 6 88443 36772 98493 36340 32048 34338 594 6 00000	USB	(AB/MPJ)
S06s	15945	17-7	0600	Tue	438 921 5 38714 36997 80093 41915 30694 921 5 00000	USB	(AB)
S06s	16945	17-7	0610	Tue	438 921 5 38714 36997 80093 41915 30694 921 5 00000	USB	(AB)
S06s	5430	17-7	0700	Tue	374 819 5 28548 59014 32424 75078 97520 819 5 00000	USB	(AB-POL)
S06s	6780	17-7	0715	Tue	374 819 5 28548 59014 32424 75078 97520 819 5 00000	USB	(AB)
S06s	7365	17-7	0730	Tue	427 891 5 34242 83255 55945 60494 93543 891 5 00000	USB	(AB)
S06s	11655	17-7	0740	Tue	427 891 5 34242 83255 55945 60494 93543 891 5 00000	USB	(AB)
S06s	14373	17-7	0800	Tue	352 917 6 59067 58855 48236 28333 37832 99792 917 6 00000	USB	(AB)
S06s	12935	17-7	0810	Tue	352 917 6 59067 58855 48236 28333 37832 99792 917 6 00000	USB	(AB-POL)
S06s	4820	17-7	1000	Tue	893 276 5 33796 13577 74526 46647 79302 276 5 00000	USB	(AB-POL)
S06s	5660	17-7	1010	Tue	893 276 5 33796 13577 74526 46647 79302 276 5 00000	USB	(AB-POL)
S06s	6810	17-7	1100	Tue	754 291 6 88620 58069 61732 74527 57440 10597 291 6 00000	USB	(AB-POL/MPJ)
S06s	7560	17-7	1110	Tue	754 291 6 88620 58069 61732 74527 57440 10597 291 6 00000	USB	(AB-POL/MPJ)
S06s	6766	17-7	1500	Tue	537 261 8 46062 68672 97478 39685 30485 96632 52537 53328 261 8 00000	USB	(AB)
S06s	7744	17-7	1510	Tue	537 261 8 46062 68672 97478 39685 30485 96632 52537 53328 261 8 00000	USB	(AB)
S06s	12110	18-7	0730	Wed	735 893 6 43613 47545 24535 49598 08142 42214 893 6 00000	USB	(AB)
S06s	14977	18-7	0740	Wed	735 893 6 43613 47545 24535 49598 08142 42214 893 6 00000	USB	(AB)
S06s	9485	18-7	0820	Wed	471 562 8 84523 60543 61462 84040 39493 91458 83723 92688 562 8 00000	USB	(AB)
S06s	11085	18-7	0830	Wed	471 562 8 84523 60543 61462 84040 39493 91458 83723 92688 562 8 00000	USB	(AB)
S06s	11565	18-7	0830	Wed	464 815 7 98564 00210 55776 33826 09127 56470 74620 815 7 00000	USB	(AB)
S06s	12560	18-7	0840	Wed	464 815 7 98564 00210 55776 33826 09127 56470 74620 815 7 00000	USB	(AB)
S06s	14580	18-7	1000	Wed	729 846 5 64783 00912 76934 74914 32940 846 5 00000	USB	(AB)
S06s	16020	18-7	1010	Wed	729 846 5 64783 00912 76934 74914 32940 846 5 00000	USB	(AB)
S06s	9255	19-7	0930	Thu	317 207 5 40639 33180 48007 37230 46446 207 5 00000	USB	(AB)
S06s	10325	19-7	0940	Thu	317 207 5 40639 33180 48007 37230 46446 207 5 00000	USB	(AB)
S06s	13145	19-7	1200	Thu	425 813 6 83030 32030 34403 34746 34053 37188 813 6 00000	USB	(AB/MPJ)
S06s	14535	19-7	1210	Thu	425 813 6 83030 32030 34403 34746 34053 37188 813 6 00000	USB	(AB/MPJ)
S06s	6844	20-7	0900	Fri	624 930 5 38836 32244 34053 30738 56864 930 5 00000	USB	(AB-POL)
S06s	7161	20-7	0910	Fri	624 930 5 38836 32244 34053 30738 56864 930 5 00000	USB	(AB-POL)
S06s	10290	20-7	0930	Fri	516 430 7 40048 43167 30343 84217 43043 34433 36420 430 7 00000	USB	(AB)
S06s	9655	20-7	0940	Fri	516 430 7 40048 43167 30343 84217 43043 34433 36420 430 7 00000	USB	(AB)
S06s	16320	23-7	0630	Mon	524 819 6 93543 85422 64228 41915 15679 82445 819 6 00000	USB	(AB)
S06s	14875	23-7	0640	Mon	524 819 6 93543 85422 64228 41915 15679 82445 819 6 00000	USB	(AB)
S06s	8221	23-7	0830	Mon	371 928 5 58202 44206 29464 25472 02883 928 5 00000	USB	(AB)
S06s	9353	23-7	0840	Mon	371 371 371 00000	USB	(AB)
S06s	9353	23-7	0840	Mon	371 928 5 58202 44206 29464 25472 02883 928 5 00000	USB	(AB)
S06s	16380	23-7	0900	Mon	872 416 5 52725 74228 56551 44238 95628 416 5 00000	USB	(AB)

S06s	14835	23-7	0910	Mon	872 416 5 52725 74228 56551 44238 95628 416 5 00000	USB	(AB)
S06s	10230	23-7	1200	Mon	831 594 6 88443 36772 98493 36340 32048 34338 594 6 00000	USB	(AB-AUT)
S06s	12165	23-7	1210	Mon	831 594 6 88443 36772 98493 36340 32048 34338 594 6 00000	USB	(AB)
S06s	6810	24-7	1100	Tue	754 291 6 88620 58069 61732 74527 57440 10597 291 6 00000	USB	(MPJ)
S06s	7560	24-7	1110	Tue	754 291 6 88620 58069 61732 74527 57440 10597 291 6 00000	USB	(MPJ)
S06s	6766	24-7	1500	Tue	537 261 8 46062 68672 97478 39685 30485 96632 52537 53317 261 8 00000	USB	(MPJ)
S06s	7744	24-7	1510	Tue	537 261 8 46062 68672 97478 39685 30485 96632 52537 53317 261 8 00000	USB	(MPJ)
S06s	12110	25-7	0730	Wed	735 893 6 43613 47545 24535 49598 08142 42214 893 6 00000	USB	(AB)
S06s	14977	25-7	0740	Wed	735 893 6 43613 47545 24535 49598 08142 42214 893 6 00000	USB	(AB)
S06s	9485	25-7	0820	Wed	471 562 8 84523 60543 61462 84040 39493 91458 83723 92688 562 8 00000	USB	(AB)
S06s	11085	25-7	0830	Wed	471 562 8 84523 60543 61462 84040 39493 91458 83723 92688 562 8 00000	USB	(AB)
S06s	11565	25-7	0830	Wed	464 815 7 98564 00210 55776 33826 09127 56470 74620 815 7 00000	USB	(AB)
S06s	12560	25-7	0840	Wed	464 815 7 98564 00210 55776 33826 09127 56470 74620 815 7 00000	USB	(AB)
S06s	14580	25-7	1000	Wed	729 846 5 64783 00912 76934 74914 32940 846 5 00000	USB	(AB/MPJ)
S06s	16020	25-7	1010	Wed	729 846 5 64783 00912 76934 74914 32940 846 5 00000	USB	(AB/MPJ)
S06s	9255	26-7	0930	Thu	317 207 5 40639 33180 48007 37230 46446 207 5 00000	USB	(AB)
S06s	10325	26-7	0940	Thu	317 207 5 40639 33180 48007 37230 46446 207 5 00000	USB	(AB-AUT)
S06s	13145	26-7	1200	Thu	425 813 6 83030 32030 34403 34746 34053 37188 813 6 00000	USB	(AB-AUT)
S06s	14535	26-7	1210	Thu	425 813 6 83030 32030 34403 34746 34053 37188 813 6 00000	USB	(AB-AUT)
S06s	6844	27-7	0900	Fri	624 930 5 38836 32244 34053 30738 56864 930 5 00000	USB	(AB-POL)
S06s	7161	27-7	0910	Fri	624 930 5 38836 32244 34053 30738 56864 930 5 00000	USB	(AB-POL)
S06s	10290	27-7	0930	Fri	516 430 7 40048 43167 30343 84217 43043 34433 36420 430 7 00000	USB	(AB)
S06s	9655	27-7	0940	Fri	516 430 7 40048 43167 30343 84217 43043 34433 36420 430 7 00000	USB	(AB)
S06s	16320	30-7	0630	Mon	524 524 524 00000	USB	(AB)
S06s	14875	30-7	0639	Mon	524 524 524 00000 Early start	USB	(AB)
S06s	8221	30-7	0830	Mon	371 371 371 00000	USB	(AB)
S06s	16380	30-7	0900	Mon	872 872 872 00000	USB	(AB)
S06s	14835	30-7	0910	Mon	872 872 872 00000	USB	(AB)
S06s	10230	30-7	1200	Mon	831 831 831 00000	USB	(AB-AUT/MPJ)
S06s	12165	30-7	1210	Mon	831 831 831 00000	USB	(AB/MPJ)
S06s	15945	31-7	0600	Tue	438 438 438 00000	USB	(AB)
S06s	16945	31-7	0610	Tue	438 438 438 00000	USB	(AB)
S06s	5430	31-7	0700	Tue	374 374 374 00000	USB	(AB-POL)
S06s	6780	31-7	0715	Tue	374 374 374 00000	USB	(AB)
S06s	7365	31-7	0730	Tue	427 427 427 00000	USB	(AB)
S06s	11655	31-7	0740	Tue	427 427 427 00000	USB	(AB)
S06s	14373	31-7	0800	Tue	352 352 352 00000	USB	(AB)
S06s	12935	31-7	0810	Tue	352 352 352 00000	USB	(AB)
S06s	4820	31-7	1000	Tue	893 893 893 00000	USB	(AB-POL/MPJ-RUS)
S06s	5660	31-7	1010	Tue	893 893 893 00000	USB	(AB-POL/MPJ-RUS)

S06s	6810	31-7	1100	Tue	754 754 754 00000	USB	(MPJ-I)
S06s	7560	31-7	1110	Tue	754 754 754 00000	USB	(MPJ-I)
S06s	6766	31-7	1500	Tue	537 537 537 00000	USB	(MPJ)
S06s	7744	31-7	1510	Tue	537 537 537 00000	USB	(MPJ)
S11a	5737	1-7	2050	Sun	483/00	USB	(AB)
S11a	10210	2-7	1015	Mon	472/00	USB	(AB)
S11a	5149	3-7	0455	Tue	328/00	USB	(AB)
S11a	11092	4-7	1540	Wed	560/00	USB	(AB/MPJ)
S11a	12457	4-7	1850	Wed	284/00	USB	(AB/MPJ)
S11a	4870	4-7	1955	Wed	379/32 95991 88964 63851 ... 83962 45492 12435 (message repeated) Konets. No "Vnimanaye"	USB	(AB)
S11a	5737	4-7	2050	Wed	481/36 21201 98469 21953 ... 82578 99275 19762 (message repeated) Konets. No "Vnimanaye"	USB	(AB)
S11a	10210	5-7	1015	Thu	476/00	USB	(AB)
S11a	5149	6-7	0455	Fri	328/00	USB	(AB)
S11a	6977	6-7	1020	Fri	424/36 Vnimanaye 19607 41499 01804 ... 10104 01770 92238 Vnimanaye (message repeated) Konets	USB	(AB)
S11a	4870	6-7	1955	Fri	379/32 95991 88964 63851 ... 83962 45492 12435 (message repeated) Konets. No "Vnimanaye"	USB	(AB)
S11a	11092	7-7	1540	Sat	566/00	USB	(MPJ)
S11a	12457	7-7	1850	Sat	286/00	USB	(AB)
S11a	5737	8-7	2050	Sun	481/36 21201 98469 21953 ... 82578 99275 19762 (message repeated) Konets. No "Vnimanaye"	USB	(AB)
S11a	10210	9-7	1015	Mon	478/00	USB	(AB/MPJ)
S11a	5149	10-7	0455	Tue	326/00	USB	(AB)
S11a	17378	10-7	0735	Tue	382/00	USB	(AB-G)
S11a	6977	10-7	1020	Tue	429/00	USB	(AB/MPJ)
S11a	11092	11-7	1540	Wed	569/36 63475 88894 02869 ... 20034 15332 13418 (message repeated) Konets. No "Vnimanaye"	USB	(AB/MPJ)
S11a	12457	11-7	1850	Wed	286/00	USB	(AB/MPJ)
S11a	4870	11-7	1955	Wed	378/00	USB	(AB)
S11a	5737	11-7	2050	Wed	486/00	USB	(AB)
S11a	17378	12-7	0735	Thu	380/00	USB	(AB)
S11a	10210	12-7	1015	Thu	475/00	USB	(AB)
S11a	5149	13-7	0455	Fri	325/00	USB	(AB)
S11a	6977	13-7	1020	Fri	420/00	USB	(AB)
S11a	4870	13-7	1955	Fri	373/00	USB	(AB)
S11a	11092	14-7	1540	Sat	569/36 63475 88894 02869 ... 20034 15332 13418 (message repeated) Konets. No "Vnimanaye"	USB	(AB/MPJ)
S11a	12457	14-7	1850	Sat	285/00	USB	(AB)
S11a	5737	15-7	2050	Sun	480/00	USB	(AB)
S11a	10210	16-7	1015	Mon	477/39 Vnimanaye 06158 11153 12439 ... 03808 66625 36036 Vnimanaye (message repeated) Konets	USB	(AB)
S11a	6977	17-7	1020	Tue	420/00	USB	(AB)
S11a	11092	18-7	1540	Wed	561/00	USB	(AB/MPJ)
S11a	12457	18-7	1850	Wed	282/38 17741 97729 85161 ... 39820 22173 41587 (message repeated) Konets. No "Vnimanaye"	USB	(AB/MPJ)
S11a	4870	18-7	1955	Wed	373/00	USB	(AB)
S11a	5737	18-7	2050	Wed	480/00	USB	(AB)

S11a	5737	18-7	2050	Wed	480/00	USB	(AB)
S11a	17378	19-7	0735	Thu	384/32 37324 87127 81844 ... 39593 95884 55482 (message repeated) Konets. No "Vnimanije"	USB	(AB-RUS)
S11a	10210	19-7	1015	Thu	477/39 Vnimanije 06158 11153 12439 ... 03808 66625 36036 Vnimanije (message repeated) Konets	USB	(AB)
S11a	5149	20-7	0459	Fri	Message i.p.	USB	(AB)
S11a	6977	20-7	1020	Fri	426/00	USB	(AB)
S11a	4870	20-7	1955	Fri	377/00	USB	(AB)
S11a	11092	21-7	1540	Sat	564/00	USB	(AB/MPJ)
S11a	12457	21-7	1850	Sat	282/38 17741 97729 85161 ... 39820 22173 41587 (message repeated) Konets. No "Vnimanije"	USB	(AB)
S11a	5737	22-7	2050	Sun	485/00	USB	(AB)
S11a	10210	23-7	1015	Mon	479/00	USB	(AB)
S11a	11092	25-7	1540	Wed	567/00	USB	(AB/MPJ)
S11a	12457	25-7	1850	Wed	285/00	USB	(AB/MPJ)
S11a	4870	25-7	1955	Wed	379/00	USB	(skx)
S11a	17378	26-7	0735	Thu	389/00	USB	(AB-RUS)
S11a	10210	26-7	1015	Thu	479/00	USB	(AB)
S11a	5149	27-7	0455	Fri	326/00	USB	(AB)
S11a	6977	27-7	1020	Fri	422/00	USB	(AB/MPJ)
S11a	4870	27-7	1955	Fri	378/00	USB	(AB)
S11a	11092	28-7	1540	Sat	563/00	USB	(MPJ)
S11a	12457	28-7	1850	Sat	287/00	USB	(AB)
S11a	5737	29-7	2050	Sun	487/00	USB	(AB)
S11a	10210	30-7	1015	Mon	475/00	USB	(AB)
S11a	5149	31-7	0455	Tue	321/00	USB	(AB)
S11a	17378	31-7	0735	Tue	389/00	USB	(AB-G)
S11a	6977	31-7	1020	Tue	427/00	USB	(AB/MPJ)
UM03	7920	26-7	0021	Thu	i.p. AR 07 07 CK 100 CK 100 TIME 0720 TIME 0720 DATE 2707 DATE 2707 = XZORG PRGJY VKMBE TVKNC LZODF ... on 7920, 8250, 8410 kHz	CW	(JPL-CHN)
UM03	8250	26-7	0021	Thu	i.p. AR 07 07 CK 100 CK 100 TIME 0720 TIME 0720 DATE 2707 DATE 2707 = XZORG PRGJY VKMBE TVKNC LZODF ... on 7920, 8250, 8410 kHz	CW	(JPL-CHN)
UM03	8410	26-7	0021	Thu	i.p. AR 07 07 CK 100 CK 100 TIME 0720 TIME 0720 DATE 2707 DATE 2707 = XZORG PRGJY VKMBE TVKNC LZODF ... on 7920, 8250, 8410 kHz	CW	(JPL-CHN)
UM03	7920	26-7	0837	Thu	i.p. CK 100 CK 100 TIME 1536 TIME 1536 DATE 2707 DATE 2707 = A74D6 N57AU A3UN4 3DT57 UA3NT 4TA75 ... on 7920, 8250, 8410 kHz	CW	(JPL-CHN)
UM03	8250	26-7	0837	Thu	i.p. CK 100 CK 100 TIME 1536 TIME 1536 DATE 2707 DATE 2707 = A74D6 N57AU A3UN4 3DT57 UA3NT 4TA75 ... on 7920, 8250, 8410 kHz	CW	(JPL-CHN)
UM03	8410	26-7	0837	Thu	i.p. CK 100 CK 100 TIME 1536 TIME 1536 DATE 2707 DATE 2707 = A74D6 N57AU A3UN4 3DT57 UA3NT 4TA75 ... on 7920, 8250, 8410 kHz	CW	(JPL-CHN)
UM03	5525	26-7	1420	Thu	i.p. TBXPG UGVRF CSDDM AR W NR 45490 NR 45490 CK 62 62 = MZZFI RZACW VLEMP ... (Rare 5 letter code traffic)	CW	(JPL-CHN)
UM03	5525	26-7	1521	Thu	i.p. JRJYF XGS.Q EGEPS PLGSD AGUII CLSQP ZSUBA (Rare 5 letter code) AR NR 46691 NR 46691 CK 62	CW	(JPL-CHN)

					62 = GAGXU JCQDM BFUGV ...		
UM03	4108	26-7	1536	Thu	i.p. PPGXG PVHBA NNUKP ... AR (Rare 5 letter code) NR 46991 NR 403991 CK 62 62 = EIR.. ABCAV A..BN ...	CW	(JPL-CHN)
UM10	7380	1-7	0855	Sun	10-minutes net: MIBH	CW	(F5JBR-J)
UM10	7380	1-7	0925	Sun	10-minutes net: MIBH	CW	(F5JBR-J)
UM10	7380	2-7	0955	Mon	10-minutes net: MIBH	CW	(F5JBR-J)
UM10	4310	3-7	1355	Tue	10-minutes net: QK4S	CW	(F5JBR-J)
UM10	3542	24-7	1821	Tue	10-minutes net: HDNA	CW	(F5JBR-J)
UM10	3257	25-7	1254	Wed	10-minutes net: SDXL	CW	(F5JBR-J)
UM10	3542	26-7	1751	Thu	10-minutes net: HDNA //4116 kHz	CW	(JPL-Sib)
UM10	4116	26-7	1751	Thu	10-minutes net: HDNA //3542 kHz	CW	(JPL-Sib)
UM10	3629	26-7	1754	Thu	10-minutes net: SDXL	CW	(JPL-Sib)
UM10	3629	27-7	1320	Fri	10-minutes net: SDXL	CW	(AtB)
UM10	3629	27-7	1350	Fri	10-minutes net: SDXL	CW	(AtB)
UM10	3542	27-7	1621	Fri	10-minutes net: HDNA //4116 kHz	CW	(F5JBR-J)
UM10	4116	27-7	1621	Fri	10-minutes net: HDNA //3542 kHz	CW	(F5JBR-J)
UM10	3629	27-7	1623	Fri	10-minutes net: SDXL	CW	(F5JBR-J)
UM10	3542	28-7	1621	Sat	10-minutes net: HDNA //3629 kHz	CW	(JPL-CHN)
UM10	3629	28-7	1621	Sat	10-minutes net: HDNA //3542 kHz	CW	(JPL-CHN)
UM10	3629	28-7	1623	Sat	10-minutes net: SDXL	CW	(JPL-CHN)
UM10	4116	29-7	1550	Sun	10-minutes net: HDNA	CW	(F5JBR-J)
UM10	3629	29-7	1620	Sun	10-minutes net: SDXL	CW	(F5JBR-J)
UM10	5918	30-7	0922	Mon	10-minutes net: QUXF //6780 kHz. New callsign	USB	(JPL-Sib)
UM10	6780	30-7	0922	Mon	10-minutes net: QUXF //5918 kHz. New callsign	USB	(JPL-Sib)
UM10	6790	30-7	0922	Mon	10-minutes net: JATD	USB	(JPL-Sib)
UM10	3629	30-7	1800	Mon	10-minutes net: SDXL	USB	(JPL-Sib)
UM10	3629	31-7	1123	Tue	10-minutes net: SDXL	CW	(F5JBR-J)
V07	13563	1-7	0700	Sun	512 512 512 000	USB	(AB-USA/SDX)
V07	12163	1-7	0720	Sun	512 512 512 000	USB	(AB-USA/SDX)
V07	13563	8-7	0700	Sun	512 512 512 1 7523 47 7523 47 18002 85225 95828 ... 21969 78164 42855 000 000	USB	(AB- RUS/Rizla/SDX)
V07	13563	8-7	0700	Sun	512 1 7523 47 18002	USB	(HFD)
V07	12163	8-7	0720	Sun	512 512 512 1 7523 47 7523 47 18002 85225 95828 ... 21969 78164 42855 000 000	USB	(AB- RUS/Rizla/SDX)
V07	10263	8-7	0740	Sun	512 512 512 1 7523 47 7523 47 18002 85225 95828 ... 21969 78164 42855 000 000	USB	(AB- RUS/Rizla/SDX)
V07	13563	15-7	0700	Sun	512 512 512 000	USB	(AB-RUS/Dan)
V07	12163	15-7	0720	Sun	512 512 512 000	USB	(AB-RUS/Dan)
V07	13563	22-7	0700	Sun	512 512 512 1 8317 71 8317 71 11927 83686 73304 ... 94463 08270 28272 000 000	USB	(AB-RUS)
V07	12163	22-7	0720	Sun	512 512 512 1 8317 71 8317 71 11927 83686 73304 ... 94463 08270 28272 000 000	USB	(AB-RUS)

V07	10263	22-7	0740	Sun	512 512 512 1 8317 71 8317 71 11927 83686 73304 ... 94463 08270 28272 000 000	USB	(AB-RUS/Dan)
V07	13563	29-7	0700	Sun	512 512 512 000	USB	(AB-RUS/SDX)
V07	12163	29-7	0720	Sun	512 512 512 000	USB	(AB-RUS/SDX/MDK2)
V15	3320	21-7	1445	Sat	North Korean Intelligence via PBS Pyongyang Pansong. Message in Korean	AM	(AB-J)
V15	3320	26-7	1545	Thu	North Korean Intelligence via PBS Pyongyang Pansong. Message in Korean	AM	(BW3-J)
V24	6215	7-7	1500	Sat	Korean popsong followed by the call up and numbers in Korean by OM. Repeated at 1506 UTC	AM	(CM2-J)
V24	6310	8-7	1530	Sun	Popsong followed by a message in Korean.	AM	(AB-J)
V24	5715	21-7	1500	Sat	South Korean Intelligence. Pop song followed by a message in Korean	AM	(AB-J)
V26	4364	27-7	0001	Fri	Callup in Chinese //8073 kHz	USB	(JPL)
V26	8073	27-7	0001	Fri	Callup in Chinese //8073 kHz	USB	(JPL)
V28	2932.5	5-7	1200	Thu	Parrot. Messages in Korean	AM	(HK)
V28	3049	5-7	1200	Thu	Parrot. Messages in Korean. Male operator	AM	(HK)
V28	3518	5-7	1200	Thu	Parrot. Messages in Korean. Male operator	AM	(HK)
V28	2996	5-7	1202	Thu	Parrot. Messages in Korean. Female operator	AM	(HK)
V28	4494	9-7	2105	Mon	Parrot. Messages in Korean. Female operator	AM	(HK)
V28	4622	9-7	2105	Mon	Parrot. Messages in Korean. Female operator	AM	(HK)
V28	4963	9-7	2105	Mon	Parrot. Messages in Korean. Female operator	AM	(HK)
V28	5215	9-7	2105	Mon	Parrot. Messages in Korean. Female operator	AM	(HK)
V28	2932	27-7	1206	Fri	Parrot. Messages in Korean. Female operator	AM	(HK)
V28	2996	27-7	1206	Fri	Parrot. Messages in Korean. Male operator	AM	(HK)
V28	3049	27-7	1206	Fri	Parrot. Messages in Korean. Female operator	AM	(HK)
V28	2929	31-7	1200	Tue	Parrot. Messages in Korean. Female operator	AM	(HK)
V28	3050	31-7	1200	Tue	Parrot. Messages in Korean. Female operator	AM	(HK)
V28	3504	31-7	1200	Tue	Parrot. Messages in Korean. Female operator	AM	(HK)
VC01	3495	5-7	1722	Thu	Chinese Robot i.p.	USB	(BW3-J)
VC01	3495	7-7	1212	Sat	Chinese Robot i.p.	LSB	(Phi-CHN)
VC01	4265	13-7	1608	Fri	Chinese Robot i.p.	LSB	(AB-CHN)
VC01	3751	13-7	1616	Fri	Chinese Robot i.p.	USB	(AB-CHN)
VC01	4244	18-7	0808	Wed	Chinese Robot i.p.	LSB	(AB-CHN)
VC01	5792	18-7	0808	Wed	Chinese Robot i.p.	USB	(AB-CHN)
VC01	3751	20-7	1602	Fri	Chinese Robot i.p.	USB	(BW3-J)
VC01	3751	21-7	1142	Sat	Chinese Robot i.p.	USB	(AB-NZL)
VC01	3750	23-7	1253	Mon	Chinese Robot i.p.	USB	(AB-J)
VC01	4265	23-7	1253	Mon	Chinese Robot i.p.	LSB	(AB-CHN)
VC01	3750	26-7	1458	Thu	Chinese Robot i.p.	LSB	(BW3-J)
VC01	3750	26-7	1458	Thu	Chinese Robot i.p.	USB	(BW3-J)
VC01	3150	26-7	1700	Thu	Chinese Robot i.p.	USB	(AB-CHN)
VC01	4265	26-7	1700	Thu	Chinese Robot i.p.	LSB	(AB-CHN)
VC01	3750.2	27-7	1236	Fri	Chinese Robot i.p.	USB	(AB-J)

VC01	4265	27-7	1236	Fri	Chinese Robot i.p.	LSB	(AB-J)
VC01	4265	29-7	2118	Sun	Chinese Robot i.p.	LSB	(BW3-J)
X06	14615	3-7	0759	Tue	Sequence: 125643	MFSK-6	(Danix)
X06	12157	3-7	0800	Tue	Sequence: 165423	MFSK-6	(Danix)
X06	13524	3-7	0809	Tue	Sequence: 125643	MFSK-6	(Danix)
X06	13401	3-7	0839	Tue	Sequence: 154263	MFSK-6	(Danix)
X06	16487	3-7	0851	Tue	Sequence: 154263 (very short and out of band, operator error?)	MFSK-6	(Danix)
X06	17517	5-7	0724	Thu	Sequence: 314265	MFSK-6	(ES-HOL)
X06	10372	5-7	0946	Thu	Sequence: 431625	MFSK-6	(AB)
X06	14538	8-7	2006	Sun	Sequence: 116611 before XPA2	MFSK-6	(Dan)
X06	14538	8-7	2010	Sun	Sequence: 111666 before XPA2	MFSK-6	(Dan)
X06	14655	11-7	0747	Wed	Sequence: 164253	MFSK-6	(Danix)
X06	11153	11-7	0807	Wed	Sequence: 465132	MFSK-6	(Danix)
X06	14442	12-7	1055	Thu	Sequence: 564213	MFSK-6	(Danix)
X06	15828	13-7	0955	Fri	Sequence: 256134	MFSK-6	(Danix)
X06	14863	13-7	0957	Fri	Sequence: 615243	MFSK-6	(Danix)
X06	14825	16-7	0732	Mon	Sequence: 641523	MFSK-6	(Danix)
X06	12152	16-7	0743	Mon	Sequence: 432516	MFSK-6	(Danix)
X06	12199	16-7	1541	Mon	Sequence: 532614	MFSK-6	(Danix)
X06	12149	17-7	0836	Tue	Sequence: 154263	MFSK-6	(Danix)
X06	11462	17-7	0851	Tue	Sequence: 165423	MFSK-6	(Danix)
X06	17454	17-7	1142	Tue	Sequence: 325614	MFSK-6	(Danix)
X06	15866	19-7	0716	Thu	Sequence: 436512	MFSK-6	(ES-HOL)
X06	15710	22-7	1125	Sun	Sequence: 261453	MFSK-6	(Danix)
X06	11537	23-7	0801	Mon	Sequence: 421635	MFSK-6	(Danix)
X06	11525	23-7	0819	Mon	Sequence: 156234	MFSK-6	(Danix)
X06	16257	24-7	0814	Tue	Sequence: 542136	MFSK-6	(Danix)
X06	13510	24-7	0959	Tue	Sequence: 612534	MFSK-6	(Danix)
X06	17444	25-7	0721	Wed	Sequence: 435621	MFSK-6	(Danix)
X06	15651	25-7	0727	Wed	Sequence: 435621	MFSK-6	(Danix)
X06	10814	25-7	0737	Wed	Sequence: 412356	MFSK-6	(Danix)
X06	13369	25-7	0748	Wed	Sequence: 412356	MFSK-6	(Danix)
X06	11153	25-7	0757	Wed	Sequence: 465132	MFSK-6	(Danix)
X06	14655	25-7	0801	Wed	Sequence: 164253	MFSK-6	(Danix)
X06	18245	25-7	0850	Wed	Sequence: 134265	MFSK-6	(Danix)
X06	16116	25-7	0903	Wed	Sequence: 134265	MFSK-6	(Danix)
X06	18660	25-7	1035	Wed	Sequence: 621543	MFSK-6	(Danix)
X06	18660	25-7	1051	Wed	Russian diplo/intel after X06	MFSK-66	(Danix)
X06	13854	26-7	0759	Thu	Sequence: 521634	MFSK-6	(Danix)
X06	13506	26-7	0943	Thu	Sequence: 164532	MFSK-6	(Danix)

X06	14442	26-7	1059	Thu	Sequence: 564213	MFSK-6	(Danix)
X06	14812	26-7	1413	Thu	Sequence: 263145	MFSK-6	(Danix)
X06	10653	27-7	0833	Fri	Sequence: 356412	MFSK-6	(Danix)
X06	12213	27-7	1007	Fri	Sequence: 615243	MFSK-6	(Danix)
X06b	13884	21-7	2002	Sat	Sequence: 111666 before XPA2	MFSK-6	(Dan)
X06b	15967	21-7	2003	Sat	Sequence: 111666 before XPA2	MFSK-6	(Dan)
X06b	13884	21-7	2005	Sat	Sequence: 111666 before XPA2	MFSK-6	(Dan)
X06b	15967	21-7	2006	Sat	Sequence: 111666 before XPA2	MFSK-6	(Dan)
X06b	16263	23-7	1801	Mon	Sequence: 111666 before E07	MFSK-6	(Dan)
X06b	14763	23-7	1802	Mon	Sequence: 111666 before E07	MFSK-6	(Dan)
X06b	14763	23-7	1806	Mon	Sequence: 111666 before E07	MFSK-6	(Dan)
X06b	16263	23-7	1808	Mon	Sequence: 111666 before E07	MFSK-6	(Dan)
X06b	16263	23-7	1819	Mon	Sequence: 111666 before E07	MFSK-6	(Dan)
X06b	14763	23-7	1820	Mon	Sequence: 111666 before E07	MFSK-6	(Dan)
X06b	13884	28-7	1920	Sat	Sequence: 111666 before XPA2	MFSK-6	(Dan)
X06b	15967	28-7	1922	Sat	Sequence: 111666 before XPA2	MFSK-6	(Dan)
X06b	13884	28-7	1926	Sat	Sequence: 111666 before XPA2	MFSK-6	(Dan)
X06b	15967	28-7	1926	Sat	Sequence: 111666 before XPA2	MFSK-6	(Dan)
X06b	13538	29-7	2007	Sun	Sequence: 111666 before XPA2	MFSK-6	(Dan)
X06b	14538	29-7	2008	Sun	Sequence: 111666 before XPA2	MFSK-6	(Dan)
X06b	13538	29-7	2012	Sun	Sequence: 111666 before XPA2	MFSK-6	(Dan)
X06b	14538	29-7	2013	Sun	Sequence: 111666 before XPA2	MFSK-6	(Dan)
XPA	11409	2-7	0600	Mon	456 456 456 1 06373 00119 28125 ... 87463 71342 76416	MFSK-20/10bd	(AB)
XPA	13509	2-7	0620	Mon	456 456 456 1 06373 00119 28125 ... 87463 71342 76416	MFSK-20/10bd	(AB)
XPA	14609	2-7	0640	Mon	456 456 456 1 06373 00119 28125 ... 87463 71342 76416	MFSK-20/10bd	(AB)
XPA	11409	4-7	0600	Wed	msg	MFSK-20/10Bd	(HFD)
XPA	11409	4-7	0600	Wed	456 456 456 1 06373 00119 28125 ... 87463 71342 76416	MFSK-20/10bd	(AB)
XPA	13509	4-7	0620	Wed	456 456 456 1 06373 00119 28125 ... 87463 71342 76416	MFSK-20/10bd	(AB)
XPA	13509	4-7	0620	Wed	msg	MFSK-20/10Bd	(HFD)
XPA	14609	4-7	0640	Wed	msg	MFSK-20/10Bd	(HFD)
XPA	14609	4-7	0640	Wed	456 456 456 1 06373 00119 28125 ... 87463 71342 76416	MFSK-20/10bd	(AB)
XPA	11409	9-7	0600	Mon	456 456 456 000 01585 00001 00000 36261	MFSK-20/10bd	(AB)
XPA	13509	9-7	0620	Mon	456 456 456 000 01585 00001 00000 36261	MFSK-20/10bd	(AB)
XPA	14609	9-7	0640	Mon	456 456 456 000 01585 00001 00000 36261	MFSK-20/10bd	(AB)
XPA	11409	11-7	0600	Wed	456 456 456 000 01451 00001 00000 33656	MFSK-20/10bd	(AB)
XPA	13509	11-7	0620	Wed	456 456 456 000 01451 00001 00000 33656	MFSK-20/10bd	(AB)
XPA	14609	11-7	0640	Wed	456 456 456 000 01451 00001 00000 33656	MFSK-20/10bd	(AB)
XPA	11409	16-7	0600	Mon	456 456 456 1 00145 00091 46508 ... 80295 95657 75236	MFSK-20/10bd	(AB)
XPA	13509	16-7	0620	Mon	456 456 456 1 00145 00091 46508 ... 80295 95657 75236	MFSK-20/10bd	(AB)
XPA	14609	16-7	0640	Mon	456 456 456 1 00145 00091 46508 ... 80295 95657 75236	MFSK-20/10bd	(AB)

XPA	11409	18-7	0600	Wed	456 456 456 1 00145 00091 46508 ... 80295 95657 75236	MFSK-20/10bd	(AB)
XPA	13509	18-7	0620	Wed	456 456 456 1 00145 00091 46508 ... 80295 95657 75236	MFSK-20/10bd	(AB)
XPA	14609	18-7	0640	Wed	456 456 456 1 00145 00091 46508 ... 80295 95657 75236	MFSK-20/10bd	(AB)
XPA	11409	23-7	0600	Mon	456 456 456 000 07700 00001 00000 34657	MFSK-20/10bd	(AB)
XPA	13509	23-7	0620	Mon	456 456 456 000 07700 00001 00000 34657	MFSK-20/10bd	(AB)
XPA	14609	23-7	0640	Mon	456 456 456 000 07700 00001 00000 34657	MFSK-20/10bd	(AB)
XPA	11409	25-7	0600	Wed	456 456 456 000 05228 00001 00000 36257	MFSK-20/10bd	(AB)
XPA	13509	25-7	0620	Wed	456 456 456 000 05228 00001 00000 36257	MFSK-20/10bd	(AB)
XPA	14609	25-7	0640	Wed	456 456 456 000 05228 00001 00000 36257	MFSK-20/10bd	(AB)
XPA	11409	30-7	0600	Mon	456 456 456 000 09083 00001 00000 32671	MFSK-20/10bd	(AB)
XPA	13509	30-7	0620	Mon	456 456 456 000 09083 00001 00000 32671	MFSK-20/10bd	(AB)
XPA	14609	30-7	0640	Mon	456 456 456 000 09083 00001 00000 32671	MFSK-20/10bd	(AB)
XPA2	14538	1-7	2100	Sun	00408 00063 43843 ... 71882 38691 65623	MFSK-16/20Bd	(AB/Dan)
XPA2	13538	1-7	2120	Sun	00408 00063 43843 ... 71882 38691 65623	MFSK-16/20Bd	(AB/Dan)
XPA2	12138	1-7	2140	Sun	00408 00063 43843 ... 71882 38691 65623	MFSK-16/20Bd	(AB)
XPA2	14538	3-7	2100	Tue	msg XPA2m	MFSK-16/20Bd	(HFD)
XPA2	14538	3-7	2100	Tue	00408 00063 43843 ... 71882 38691 65623	MFSK-16/20Bd	(AB)
XPA2	13538	3-7	2120	Tue	msg XPA2m	MFSK-16/20Bd	(HFD)
XPA2	13538	3-7	2120	Tue	00408 00063 43843 ... 71882 38691 65623	MFSK-16/20Bd	(AB)
XPA2	12138	3-7	2140	Tue	msg XPA2m	MFSK-16/20Bd	(HFD)
XPA2	12138	3-7	2140	Tue	00408 00063 43843 ... 71882 38691 65623	MFSK-16/20Bd	(AB)
XPA2	11167	4-7	0700	Wed	01076 00001 00000 34260	MFSK-16/20Bd	(AB)
XPA2	12167	4-7	0720	Wed	01076 00001 00000 34260	MFSK-16/20Bd	(AB)
XPA2	13567	4-7	0740	Wed	01076 00001 00000 34260	MFSK-16/20Bd	(AB)
XPA2	13445	5-7	0910	Thu	05895 00079 41329 ... 55808 90749 57176	MFSK-16/20bd	(AB)
XPA2	12145	5-7	0930	Thu	05895 00079 41329 ... 55808 90749 57176	MFSK-16/20bd	(AB)
XPA2	11545	5-7	0950	Thu	05895 00079 41329 ... 55808 90749 57176	MFSK-16/20bd	(AB)
XPA2	15967	6-7	2100	Fri	00569 00091 18826 ... 23719 24389 43645	MFSK-16/20bd	(AB)
XPA2	13884	6-7	2120	Fri	00569 00091 18826 ... 23719 24389 43645	MFSK-16/20bd	(AB)
XPA2	12217	6-7	2140	Fri	00569 00091 18826 ... 23719 24389 43645	MFSK-16/20bd	(AB)
XPA2	13445	7-7	0910	Sat	05895 00079 41329 ... 55808 90749 57176	MFSK-16/20bd	(AB)
XPA2	12145	7-7	0930	Sat	05895 00079 41329 ... 55808 90749 57176	MFSK-16/20bd	(AB)
XPA2	11545	7-7	0950	Sat	05895 00079 41329 ... 55808 90749 57176	MFSK-16/20bd	(AB)
XPA2	15967	7-7	2100	Sat	00569 00091 18826 ... 23719 24389 43645	MFSK-16/20bd	(AB)
XPA2	13884	7-7	2120	Sat	00569 00091 18826 ... 23719 24389 43645	MFSK-16/20bd	(AB)
XPA2	12217	7-7	2140	Sat	00569 00091 18826 ... 23719 24389 43645	MFSK-16/20bd	(AB)
XPA2	14538	8-7	2100	Sun	01109 00001 00000 36252	MFSK-16/20Bd	(AB/Dan/RL)
XPA2	13538	8-7	2120	Sun	01109 00001 00000 36252	MFSK-16/20Bd	(AB)
XPA2	12138	8-7	2140	Sun	01109 00001 00000 36252	MFSK-16/20Bd	(AB)
XPA2	11167	9-7	0700	Mon	06401 00167 38995 ... 58564 50243 11347	MFSK-16/20Bd	(AB)

XPA2	12167	9-7	0720	Mon	06401 00167 38995 ... 58564 50243 11347	MFSK-16/20Bd	(AB)
XPA2	13567	9-7	0740	Mon	06401 00167 38995 ... 58564 50243 11347	MFSK-16/20Bd	(AB)
XPA2	14538	10-7	2100	Tue	03084 00001 00000 33263	MFSK-16/20Bd	(AB)
XPA2	13538	10-7	2120	Tue	03084 00001 00000 33263	MFSK-16/20Bd	(AB)
XPA2	12138	10-7	2140	Tue	03084 00001 00000 33263	MFSK-16/20Bd	(AB)
XPA2	11167	11-7	0700	Wed	06401 00167 38995 ... 58564 50243 11347	MFSK-16/20Bd	(AB)
XPA2	12167	11-7	0720	Wed	06401 00167 38995 ... 58564 50243 11347	MFSK-16/20Bd	(AB)
XPA2	13567	11-7	0740	Wed	06401 00167 38995 ... 58564 50243 11347	MFSK-16/20Bd	(AB)
XPA2	13445	12-7	0910	Thu	06572 00001 00000 34665	MFSK-16/20bd	(AB)
XPA2	12145	12-7	0930	Thu	06572 00001 00000 34665	MFSK-16/20bd	(AB)
XPA2	11545	12-7	0950	Thu	06572 00001 00000 34665	MFSK-16/20bd	(AB)
XPA2	15967	13-7	2100	Fri	msg XPA2r	MFSK-16/20Bd	(HFD)
XPA2	15967	13-7	2100	Fri	01210 00001 00000 32252	MFSK-16/20bd	(AB)
XPA2	13884	13-7	2120	Fri	01210 00001 00000 32252	MFSK-16/20bd	(AB/RL)
XPA2	13884	13-7	2120	Fri	msg XPA2r	MFSK-16/20Bd	(HFD)
XPA2	12217	13-7	2140	Fri	msg XPA2r	MFSK-16/20Bd	(HFD)
XPA2	12217	13-7	2140	Fri	01210 00001 00000 32252	MFSK-16/20bd	(AB)
XPA2	13445	14-7	0910	Sat	08760 00001 00000 35266	MFSK-16/20bd	(AB)
XPA2	12145	14-7	0930	Sat	08760 00001 00000 35266	MFSK-16/20bd	(AB)
XPA2	11545	14-7	0950	Sat	08760 00001 00000 35266	MFSK-16/20bd	(AB)
XPA2	15967	14-7	2100	Sat	05638 00001 0000 40260	MFSK-16/20bd	(AB)
XPA2	13884	14-7	2120	Sat	05638 00001 0000 40260	MFSK-16/20bd	(AB)
XPA2	12217	14-7	2140	Sat	05638 00001 0000 40260	MFSK-16/20bd	(AB)
XPA2	14538	15-7	2100	Sun	00288 00101 58645 ... 17925 84570 42225	MFSK-16/20Bd	(AB)
XPA2	13538	15-7	2120	Sun	00288 00101 58645 ... 17925 84570 42225	MFSK-16/20Bd	(AB)
XPA2	12138	15-7	2140	Sun	00288 00101 58645 ... 17925 84570 42225	MFSK-16/20Bd	(AB)
XPA2	11167	16-7	0700	Mon	03072 00001 00000 32262	MFSK-16/20Bd	(AB)
XPA2	12167	16-7	0720	Mon	03072 00001 00000 32262	MFSK-16/20Bd	(AB)
XPA2	13567	16-7	0740	Mon	03072 00001 00000 32262	MFSK-16/20Bd	(AB)
XPA2	14538	17-7	2100	Tue	00288 00101 58645 ... 17925 84570 42225	MFSK-16/20Bd	(AB)
XPA2	13538	17-7	2120	Tue	00288 00101 58645 ... 17925 84570 42225	MFSK-16/20Bd	(AB/RL)
XPA2	12138	17-7	2140	Tue	00288 00101 58645 ... 17925 84570 42225	MFSK-16/20Bd	(AB)
XPA2	11167	18-7	0700	Wed	07869 00001 00000 41665	MFSK-16/20Bd	(AB)
XPA2	12167	18-7	0720	Wed	07869 00001 00000 41665	MFSK-16/20Bd	(AB)
XPA2	13567	18-7	0740	Wed	07869 00001 00000 41665	MFSK-16/20Bd	(AB)
XPA2	13445	19-7	0910	Thu	07192 00085 70573 ... 88881 55645 71626	MFSK-16/20bd	(AB)
XPA2	12145	19-7	0930	Thu	07192 00085 70573 ... 88881 55645 71626	MFSK-16/20bd	(AB)
XPA2	11545	19-7	0950	Thu	07192 00085 70573 ... 88881 55645 71626	MFSK-16/20bd	(AB)
XPA2	15967	20-7	2100	Fri	09608 00127 52704 ... 99780 24411 24404	MFSK-16/20bd	(AB/RL)
XPA2	13884	20-7	2120	Fri	09608 00127 52704 ... 99780 24411 24404	MFSK-16/20bd	(AB)

XPA2	12217	20-7	2140	Fri	09608 00127 52704 ... 99780 24411 24404	MFSK-16/20bd	(AB)
XPA2	13445	21-7	0910	Sat	07192 00085 70573 ... 88881 55645 71626	MFSK-16/20bd	(AB)
XPA2	12145	21-7	0930	Sat	07192 00085 70573 ... 88881 55645 71626	MFSK-16/20bd	(AB)
XPA2	11545	21-7	0950	Sat	07192 00085 70573 ... 88881 55645 71626	MFSK-16/20bd	(AB)
XPA2	15967	21-7	2100	Sat	09608 00127 52704 ... 99780 24411 24404	MFSK-16/20bd	(AB/Dan)
XPA2	13884	21-7	2120	Sat	09608 00127 52704 ... 99780 24411 24404	MFSK-16/20bd	(AB/Dan)
XPA2	12217	21-7	2140	Sat	09608 00127 52704 ... 99780 24411 24404	MFSK-16/20bd	(AB)
XPA2	14538	22-7	2100	Sun	03938 00001 00000 41656	MFSK-16/20Bd	(AB/Dan)
XPA2	13538	22-7	2120	Sun	03938 00001 00000 41656	MFSK-16/20Bd	(AB/Dan)
XPA2	12138	22-7	2140	Sun	03938 00001 00000 41656	MFSK-16/20Bd	(AB/Dan)
XPA2	11167	23-7	0700	Mon	05994 00145 02746 ... 93506 21088 31153	MFSK-16/20Bd	(AB)
XPA2	12167	23-7	0720	Mon	05994 00145 02746 ... 93506 21088 31153	MFSK-16/20Bd	(AB)
XPA2	13567	23-7	0740	Mon	05994 00145 02746 ... 93506 21088 31153	MFSK-16/20Bd	(AB)
XPA2	14538	24-7	2100	Tue	06654 00001 00000 36263	MFSK-16/20Bd	(AB)
XPA2	13538	24-7	2120	Tue	06654 00001 00000 36263	MFSK-16/20Bd	(AB/RL)
XPA2	12138	24-7	2140	Tue	06654 00001 00000 36263	MFSK-16/20Bd	(AB)
XPA2	11167	25-7	0700	Wed	05994 00145 02746 ... 93506 21088 31153	MFSK-16/20Bd	(AB)
XPA2	12167	25-7	0720	Wed	05994 00145 02746 ... 93506 21088 31153	MFSK-16/20Bd	(AB)
XPA2	13567	25-7	0740	Wed	05994 00145 02746 ... 93506 21088 31153	MFSK-16/20Bd	(AB)
XPA2	13445	26-7	0910	Thu	04877 00001 00000 40663	MFSK-16/20bd	(AB)
XPA2	12145	26-7	0930	Thu	04877 00001 00000 40663	MFSK-16/20bd	(AB)
XPA2	11545	26-7	0950	Thu	04877 00001 00000 40663	MFSK-16/20bd	(AB)
XPA2	15967	27-7	2100	Fri	01260 00001 00000 32257	MFSK-16/20bd	(AB)
XPA2	13884	27-7	2120	Fri	01260 00001 00000 32257	MFSK-16/20bd	(AB)
XPA2	12217	27-7	2140	Fri	01260 00001 00000 32257	MFSK-16/20bd	(AB)
XPA2	13445	28-7	0910	Sat	02459 00001 00000 36557	MFSK-16/20bd	(AB)
XPA2	12145	28-7	0930	Sat	02459 00001 00000 36557	MFSK-16/20bd	(AB)
XPA2	11545	28-7	0950	Sat	02459 00001 00000 36557	MFSK-16/20bd	(AB)
XPA2	15967	28-7	2100	Sat	01260 00001 00000 32257	MFSK-16/20bd	(AB/MDK2)
XPA2	13884	28-7	2120	Sat	01260 00001 00000 32257	MFSK-16/20bd	(AB/MDK2/Dan)
XPA2	12217	28-7	2140	Sat	01260 00001 00000 32257	MFSK-16/20bd	(AB/MDK2/Dan)
XPA2	14538	29-7	2100	Sun	07457 00079 66689 ... 22797 59092 45464	MFSK-16/20Bd	(AB/Dan)
XPA2	13538	29-7	2120	Sun	07457 00079 66689 ... 22797 59092 45464	MFSK-16/20Bd	(AB/Dan)
XPA2	12138	29-7	2140	Sun	07457 00079 66689 ... 22797 59092 45464	MFSK-16/20Bd	(AB/Dan)
XPA2	11167	30-7	0700	Mon	01629 00001 00000 40653	MFSK-16/20Bd	(AB)
XPA2	12167	30-7	0720	Mon	01629 00001 00000 40653	MFSK-16/20Bd	(AB)
XPA2	13567	30-7	0740	Mon	01629 00001 00000 40653	MFSK-16/20Bd	(AB)
XPA2	14538	31-7	2100	Tue	07457 00079 66689 ... 22797 59092 45464	MFSK-16/20Bd	(AB)
XPA2	13538	31-7	2120	Tue	07457 00079 66689 ... 22797 59092 45464	MFSK-16/20Bd	(AB)
XPA2	12138	31-7	2140	Tue	07457 00079 66689 ... 22797 59092 45464	MFSK-16/20Bd	(AB)

XSL	4153	13-7	1620	Fri	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-CHN)
XSL	4231.5	13-7	1620	Fri	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-CHN)
XSL	4291	13-7	1620	Fri	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-CHN)
XSL	6250	13-7	1620	Fri	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-CHN)
XSL	6417	13-7	1620	Fri	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-CHN)
XSL	6445	13-7	1620	Fri	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-CHN)
XSL	8313	13-7	1620	Fri	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-CHN)
XSL	8588	13-7	1620	Fri	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-CHN)
XSL	8703.5	13-7	1620	Fri	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-CHN)
XSL	4153	15-7	0723	Sun	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-CHN)
XSL	4231.5	15-7	0723	Sun	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-CHN)
XSL	4291	15-7	0723	Sun	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-CHN)
XSL	6250	15-7	0723	Sun	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-CHN)
XSL	6417	15-7	0723	Sun	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-CHN)
XSL	6445	15-7	0723	Sun	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-CHN)
XSL	8313	15-7	0723	Sun	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-CHN)
XSL	8588	15-7	0723	Sun	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-CHN)
XSL	8703.5	15-7	0723	Sun	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-CHN)
XSL	4153	21-7	1424	Sat	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-CHN)
XSL	4231.5	21-7	1424	Sat	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-CHN)
XSL	4291	21-7	1424	Sat	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-CHN)
XSL	6250	21-7	1424	Sat	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-CHN)
XSL	6417	21-7	1424	Sat	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-CHN)
XSL	6445	21-7	1424	Sat	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-CHN)
XSL	8313	21-7	1424	Sat	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-CHN)
XSL	8588	21-7	1424	Sat	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-CHN)
XSL	8703.5	21-7	1424	Sat	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-CHN)
XSL	4153	27-7	1232	Fri	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-RUS)
XSL	4231.5	27-7	1232	Fri	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-RUS)
XSL	4291	27-7	1232	Fri	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-RUS)
XSL	6250	27-7	1232	Fri	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-RUS)
XSL	6417	27-7	1232	Fri	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-RUS)
XSL	6445	27-7	1232	Fri	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-RUS)
XSL	8313	27-7	1232	Fri	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-RUS)
XSL	8588	27-7	1232	Fri	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-RUS)
XSL	8703.5	27-7	1232	Fri	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-RUS)
XSL	4153	29-7	2125	Sun	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(BW3-J)
XSL	4231.5	29-7	2126	Sun	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(BW3-J)
XSL	4291	29-7	2128	Sun	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(BW3-J)
XSL	6417	29-7	2143	Sun	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(BW3-J)

XSL	6445	29-7	2144	Sun	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(BW3-J)
XSL	4153	30-7	0519	Mon	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-J)
XSL	4231.5	30-7	0519	Mon	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-J)
XSL	4291	30-7	0519	Mon	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-J)
XSL	6250	30-7	0519	Mon	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-J)
XSL	6417	30-7	0519	Mon	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-J)
XSL	6445	30-7	0519	Mon	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-J)
XSL	8313	30-7	0519	Mon	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-J)
XSL	8588	30-7	0519	Mon	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-J)
XSL	8703.5	30-7	0519	Mon	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-J)

"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.

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

Google Earth images: Copyright © Google

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

Relevant mailing lists and websites:

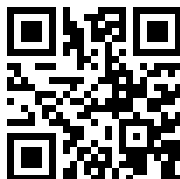
NUMBERS & ODDITIES <http://www.numbersoddities.nl>
SPY NUMBERS ONLINE DATABASE <http://www.spynumbers.com/numbersDB>
UDXF - UTILITY DXERS FORUM <http://www.udxf.nl>
HF UNDERGROUND <http://www.hfunderground.com/board/>
PRIYOM <http://priyom.org/>
ENIGMA <http://www.apul64.dsl.pipex.com/enigma2000/>

To become an UDXF member go to <https://groups.io/g/UDXF> and follow the instructions.

To become a Spooks member go to <http://mailman.qth.net/mailman/listinfo/spooks> fill in the form and follow the instructions that will be mailed to you.

148 07004 92636 89428 43286 10385 18878 00044 31277
48 00932 78987 22123 49817 26385 81287 65481 87384 8
721 75654 55656 12737 72727 72727 91918 63473 67867 2
723 87629 37677 22612 53498 71296 28756 18276 98716 8
269 76329 74698 78857 98678 27881 58781 57681 73648 1
81 87384 87385 96710 27630 12673 84769 28743 98127
3 63298 75698 27685 87326 49876 28376 81273 98615
47 07432 74326 78674 29867 32867 67867 86786 83286 8
37 68768 68768 34234 34238 88768 62342 48272 68768 2
38 98432 32432 86743 43286 43286 43286 43286 43286 4
768 81743 86743 29867 29867 86743 43286 43286 43243 8
768 81743 86743 86743 86743 86743 86743 86743 86743 4
768 98798 98754 98754 98754 98754 29867 67543 67543 8
768 87698 68876 87698 68876 87612 32341 34867 86798 8
3298 65656 44754 56123 32143 14321 32143 14321 321
768 58767 58767 58767 58767 58767 58767 58767 58767

N&O



UDXF

