



Latiff  
2024

87210  
12521  
82301  
87110

580  
95120  
90711  
2010110  
52702  
101851  
158

ANNIVERSARY

27364	92836	89428	61268	74982	76598	82764	31277
48932	78987	32123	49817	26346	81287	65491	87364
75654	55656	12737	72727	72727	91918	63473	67867
87629	37677	32612	53498	71296	28756	18276	98716
76329	74698	76857	98670	27601	56701	57601	73648
87364	87265	96710	27630	12673	84769	28743	98127
63298	75698	27465	87326	49876	28376	81273	98615
87432	74328	78674	29867	32867	67867	86786	43286
68768	68763	34234	34238	68768	62342	48273	48768
98432	32432	86743	43286	43286	43286	43286	43286
86743	86743	39867	32867	86743	43286	43286	43243
86743	86743	86743	86743	86743	86743	86743	86743
98798	98754	98754	98754	98754	29867	67543	67986
87698	69876	87698	69876	87612	12341	34867	86798
43298	65656	56756	56123	32143	14321	32143	14321
58765	58765	76587	58765	76587	58765	76587	58756

# *Numbers & Oddities*

## *a.k.a. The Spooks Newsletter*

*Edition #327, December 2024*

Editor: Ary Boender email: [udxf@udxf.nl](mailto: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.

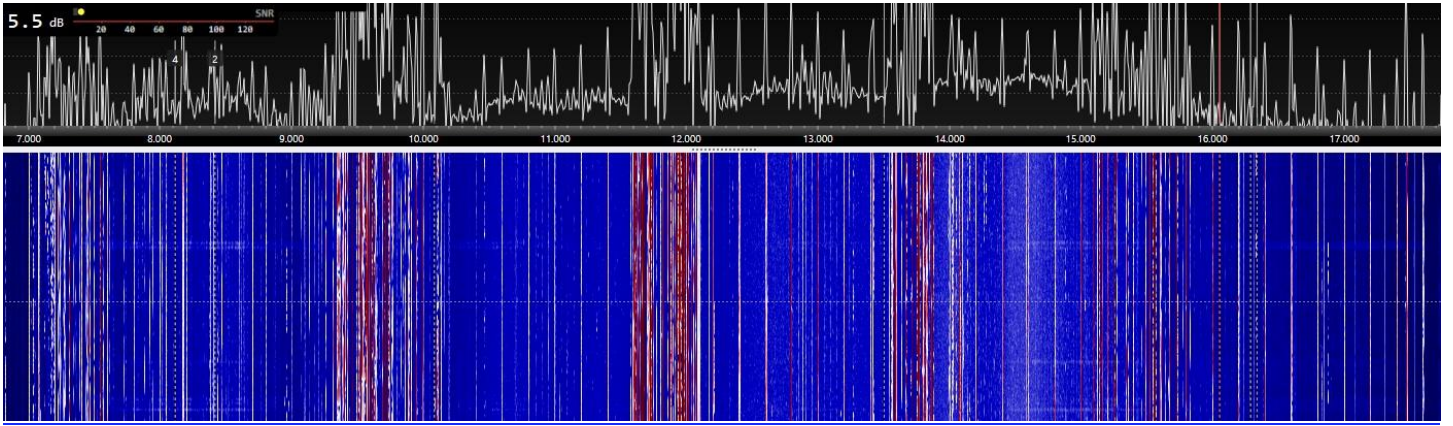


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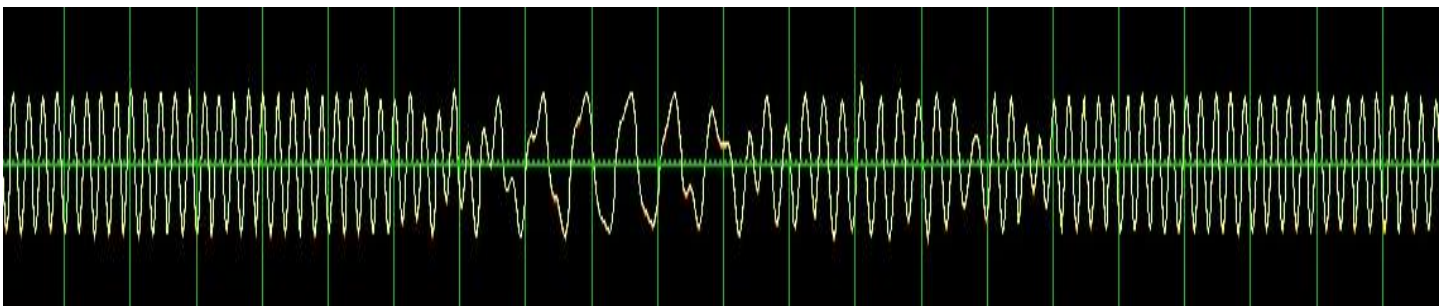
Numbers and Oddities

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## FOREWORD

*On behalf of N&O and the UDXF staff, I wish everyone a wonderful, healthy and peaceful new year.*

*Thank you so much for all the logs, info, recordings and other support in the past year. Without you there would be no N&O or UDXF.*

*73, Ary*

Only 12 contributors but still we have a well-filled N&O. As so often, Christmas, New Year and holidays slowed down the processing of logs and recordings considerably. The amount of V13 logs and info is quite extensive. thanks to AVX, CryptLab and FSpY. PY and AB supplied a number of Russian operator 6 tests, and Subilo sent us a good number of M14 and UM04 recordings. As usual we received a large amount of F01 and F06 logs from PY.

It is already January 2025 when you read this newsletter. **30 years** ago, in Januaray 1995, I wrote my first Numbers & Oddities column for the newsletter of the Worldwide Utility News club. It was published in the first WUN newsletter in February 1995. To mark the occasion, **Carlos Latuff** created a funny cartoon for the front page. Thank you very much, Carlos!

1995 is a long time ago. I never thought that N&O would last this long. 😊 The interest in these stations is still high, even though many stations have disappeared and more and more stations have switched to digital modes.

**UNDER CONSTRUCTION UNDER CONSTRUCTION UNDER CONSTRUCTION**

### ***Designator and Numbers Stations Logs Database update:***

There are quite a lot of military and other non-number station related logs in the database. Some with a designator and many without designator. In January ca 27,000 logs will be deleted from the main database.

- The following logs will be moved to a separate database: MX, S28, S31, S32, and all logs related to the Russian-Ukrainian radio war.
- Various designators for Russian military and Ukrainian military stations have been deleted by N&O/UDXF: RAv, RADv, RNv, RNAv, RMv, Sxxxx, M32, M32a, M32b, M32c, UADv, and UMv. The logs will be also be moved to the separate database.
- All deleted logs will remain available on the N&O website. Don't worry. We will continue to cover these stations in N&O.
- The MFSK-21/MFSK-13 Russian intelligence transmissions are now in the database with temporary designator X--, until a new designator is assigned.
- The New Buzzer station gets temporary designator NB.
- The designators for diplomatic stations in the database will be the ITU code of the country where the MFA is located. So, EGY for Egypt, KRE for the Democratic People's Republic of Korea, BUL for Bulgary, etc. The Russian diplo stations are listed under M42 and X06.

More changes will probably follow in the next few months.

## VOICE STATIONS

### E06

#### Test transmissions

**10755 kHz, 16-12, 0656 UTC.** Windows XP ding system sound twice

**10755 kHz, 16-12, 0703 UTC.** 975 once

**10755 kHz, 16-12, 0709 UTC.** Test tones

**11073 kHz, 16-12, 1540 UTC**

352 (R4m) 790 16

54678 57131 70970 78636 87286 96892 75551 41259 53183 61283

27026 21133 39563 00804 25521 [3s silence]

352 (R2m32s) 35 [11s silence] 352 (R55s)

27026 21133 39563 00804 25525 (group corrected) 32049

790 16

352 (R1m) 168 47

26284 47810 21169 31368 98244 31315 11394 17009 54019 22920

07606 61550 56917 52337 99150 90694 05355 36135 66310 68040

03236 98389 27298 48784 22221 50807 82607 20242 98089 43254

11425 02628 28363 20632 99765 08514 63385 47047 05045 84431

08056 83192 86764 83032 76382 27899 57988

168 47 00000

#### Full recomposed messages:

352 790 16

54678 57131 70970 78636 87286 96892 75551 41259 53183 61283

27026 21133 39563 00804 25525 32049

790 16

352 168 47

26284 47810 21169 31368 98244 31315 11394 17009 54019 22920

07606 61550 56917 52337 99150 90694 05355 36135 66310 68040

03236 98389 27298 48784 22221 50807 82607 20242 98089 43254

11425 02628 28363 20632 99765 08514 63385 47047 05045 84431

08056 83192 86764 83032 76382 27899 57988

168 47 00000

**10755 kHz, 16-12, 0956 UTC** i.p. 975 (R). Ended at 1046z)

**9075/6792 kHz, 28-12, 1600/1630 UTC**

**11487/9371 kHz, 29-12, 0730/0800 UTC**

480 139 47

02358 59012 15276 62083 34073 76913 51828 57142 98264 05971

26569 17191 03258 85409 93792 21298 50275 94917 63185 68050

38719 94706 62123 32828 60517 25183 69894 07124 63869 49634

03414 45805 68612 59573 36572 84129 05454 91505 93861 65741

23434 21914 12425 38234 31819 63623 85240

139 47 00000

### E07

#### 10226/9226/8126 kHz, 1410/1430/1450 UTC

**10226/9226/8126 kHz, 05-12/07-12, 1410/1430/1450 UTC**

674 674 674 1 1597 144 1597 144

01667 27678 19658 67456 16709 87913 53252 30596 70987 32240

44386 13803 95840 09138 70013 61793 65972 08506 55157 21260

68820 02847 17350 41671 91020 36331 42428 69967 64345 55049

25358 92480 74818 92812 81357 49948 80676 35544 32244 11003

58315 84153 61140 11852 40223 70798 84961 56675 80380 73687

33060 72041 88674 93159 31381 89088 84281 40057 87538 25614  
67950 29057 05073 00351 79312 99377 94818 56284 59142 62357  
65075 94362 88732 10293 14090 20430 40503 41544 28446 19718  
12660 13035 75539 47897 94479 68302 25835 95930 89293 18360  
16533 63161 63342 58384 79950 44337 27538 53769 14970 61768  
19640 70291 09105 21714 77077 02799 26718 93365 76728 84003  
63909 35093 07753 27550 84119 01984 24274 69795 03056 81303  
21356 90189 34406 13811 79840 09928 18851 63282 71739 46332  
03638 90455 74622 36627 95139 01263 16362 12552 99142 24247  
98244 82538 12751 11786 000 000

**10226/9226/8126 kHz, 19-12/21-12, 1410/1430/1450 UTC**

674 674 674 1 372 92 372 92  
52893 42754 81096 69177 67061 17690 88039 46619 76138 27552  
02204 03328 68312 79566 47544 16514 07870 00821 22967 13591  
07573 82081 54219 39363 75990 92815 68473 39524 01646 54037  
85173 95967 34664 99349 47801 67109 38789 17457 66049 89927  
48105 79493 00720 72627 03928 52330 84876 56642 90868 04707  
76788 09479 19353 65323 81631 29951 44182 41277 91711 23383  
86524 14655 00256 01329 45273 61935 18356 23255 45059 93405  
60879 86367 98936 39170 43102 11034 83034 21100 11429 06107  
39010 64606 54253 71091 26126 43728 81872 14401 67778 84872  
20211 06678 000 000

13559/12139/10239 kHz, 1500/1520/1540 UTC

**13559/12139/10239 kHz, 10-12/13-12, 1500/1520/1540 UTC**

512 512 512 1 1333 121 1333 121  
56068 99619 88118 47641 20350 44567 82763 58986 58482 83352  
63221 60530 14674 52292 45307 84820 05353 54050 99027 96177  
60167 64588 07807 39517 01365 89380 28848 58001 39213 17168  
39850 04179 57995 84058 79601 23065 58242 10827 15594 56639  
05188 94013 30889 42738 71539 23599 87878 73050 77800 94329  
68175 59920 49532 71677 57198 76419 58638 12208 34477 41959  
16844 80858 05395 07544 04690 22920 46590 56516 03939 23618  
05139 99554 65509 15419 22883 48644 31200 92472 90852 04639  
22752 47390 64427 22189 49934 96195 28329 76204 75188 71535  
93339 95023 50099 84137 55663 94530 32996 13207 09652 36187  
53274 34517 06206 45969 91519 12924 98938 95851 37606 39134  
89808 42370 62738 75801 41493 40272 54612 79904 68227 05318  
76199 000 000

**13559/12139/10239 kHz, 24-12/27-12, 1500/1520/1540 UTC**

512 512 512 1 1552 83 1552 83  
89658 44099 63568 90762 56405 19023 25396 33213 64728 97520  
57633 22593 51029 59335 33838 69434 49580 47876 86850 56485  
20473 27823 00838 74602 99012 99086 38084 43136 55983 03425  
75919 62424 07235 42925 52649 15367 01778 71258 04018 64506  
57832 67153 23106 02236 41175 57234 22300 25440 10100 18588  
62230 46686 12542 04031 44289 76502 33215 26892 77349 10708  
27764 78427 90644 00055 16020 04053 04234 72422 13433 47278  
52087 64009 82610 33654 32612 68768 04163 16540 79724 01052  
77556 87077 75867 000 000

**10213 kHz, 02-12, 0745 UTC****5409 kHz, 05-12, 1530 UTC**

260/38 Attention

11293 21988 07414 65992 55756 97350 74231 83534 41192 78661  
68894 55126 60692 83305 10631 25100 16697 16920 31486 56312  
84220 76855 55934 35455 54580 45472 81107 01359 29109 31249  
60147 73745 27045 06473 70267 09140 77207 44748

Attention (message repeated) Out

**4909 kHz, 02-12, 1300 UTC**

313/36 Attention

87739 12293 34497 43771 50114 64710 33879 93747 02238 75102  
75183 46694 96244 84295 74399 81857 25638 64392 63043 73550  
21972 72614 14866 52000 42065 89692 66456 85382 11691 60127  
92608 53386 45877 63206 28077 74878

Attention (message repeated) Out

**6849 kHz, 02-12/05-12, 1900 UTC**

649/36 Attention

76104 08730 40209 20736 90222 94955 93025 58652 97664 50780  
86067 29578 06868 97041 08621 15862 55102 64680 79277 03599  
79323 79776 63157 34790 35315 97158 19049 38300 23174 86787  
41861 07020 00763 91181 48747 12250

Attention (message repeated) Out

**12153 kHz, 03-12/05-12, 0505**

338/35 Attention

08319 96882 17189 89399 61510 16053 08651 10819 95677 10703  
74473 79540 01570 80257 17442 32841 03451 65197 49479 70051  
78726 79445 34614 89653 91683 57426 32110 01129 96685 54434  
14497 23480 90300 72045 03243

Attention (message repeated) Out

**13908 kHz, 03-12/05-12, 0745 UTC**

228/31 Attention

74688 31361 10124 85636 57495 48822 99945 14885 03025 67935  
12778 75963 90484 11954 66109 17242 98252 32044 98691 94368  
79453 10713 61494 33292 19004 97235 44372 11604 08281 37976  
02315

Attention (message repeated) Out

**11559 kHz, 03-12/04-12, 1205 UTC**

469/40 Attention

59732 73977 83696 46722 48597 25398 61467 38558 41931 02574  
17335 97236 92145 59582 50141 45429 56458 33806 44738 31982  
30134 71619 18282 18904 34807 47979 84754 29500 19161 20761  
00392 07645 97916 73895 03573 97001 59324 76140 27493 29337

Attention (message repeated) Out

**13363 kHz, 03-12/07-12, 1430 UTC**

915/34 Attention

20089 69666 78106 09678 16281 02034 54265 77801 84080 03178  
11858 98177 53267 96959 16021 05458 05714 62898 44791 86174  
21611 68284 95396 98143 59044 86041 67731 55401 16328 07428  
42800 42328 25726 12564

Attention (message repeated) Out

**17378 kHz, 04-12/06-12, 0745 UTC**

346/39 Attention

05989 14130 39931 32231 74799 05343 21703 76525 78038 07771  
25753 56507 36237 51417 69066 59839 06952 35768 07566 01378  
17938 95217 84278 74366 78648 82031 34097 16360 51116 39442  
65898 58244 66840 26154 92227 92179 30856 90232 08799

Attention (message repeated) Out

**13908 kHz, 05-12, 0745UTC**

288/31 Attention

74688 31361 10124 85636 57495 48822 99945 14885 03025 67935  
12778 75963 90484 11954 66109 17242 98252 32044 98691 94368  
79453 10713 61494 33292 19004 97235 44372 11604 08281 37976  
02315

Attention (message repeated) Out

**11104 kHz, 05-12/06-12, 0820 UTC**

439/31 Attention

73973 93568 91879 30127 33850 79526 66916 45191 73717 13455  
10961 75870 90327 50480 83389 83723 03259 62412 45639 21916  
40802 48696 83266 94135 67776 55258 40521 38821 71970 09876  
77081

Attention (message repeated) Out

**17378 kHz, 05-12, 0845UTC**

156/32 Attention

88162 22563 74584 20053 94636 49804 57351 53857 92206 05080  
00680 42934 26253 60157 85237 03270 12321 34277 50482 00337  
51431 36527 71823 30443 79245 92551 16651 21471 05372 97901  
19884 87407

Attention (message repeated) Out

**5082 kHz, 05-12/08-12, 2000 UTC**

520/37 Attention

98925 87719 04317 05374 25419 43232 36235 36786 09672 37012  
76098 66012 69963 13876 23716 44743 57837 40433 03906 57525  
62988 41120 94390 75151 89450 50153 76604 67567 89030 11411  
24609 31786 93313 14842 85057 19288 72811

Attention (message repeated) Out

**6849 kHz, 06-12/08-12, 1815 UTC**

922/38 Attention

62120 73550 45013 44218 63733 38044 90865 03422 55258 73804  
58471 17247 24428 97634 59453 96326 88616 27760 59435 73215  
80100 98344 02013 27384 16112 32768 01438 02597 87575 83610  
56157 37617 87322 94881 98871 14984 63613 24933

Attention (message repeated) Out

**4909 kHz, 07-12/08-12, 1645 UTC**

367/32 Attention

62075 62552 02186 97605 21134 43157 95071 09708 70411 58302  
03630 40153 03757 07908 85429 65680 12437 52858 81473 24074  
28296 60256 83030 71090 49105 30552 24579 05232 13375 22819  
87022 19288

Attention (message repeated) Out

**20167 kHz, 09-12, 0715 UTC**

759/32 Attention

06145 42566 55182 28855 55993 51661 57688 08175 71329 58293  
52670 72272 26945 54362 42599 48746 94014 27888 80196 28538  
64864 28308 95849 82950 03488 76863 17411 52293 40348 18575  
64502 27905

Attention (message repeated) Out



**23353 kHz, 09-12/13-12, 0830 UTC**

182/37 Attention

07801 72094 83984 58984 17669 72551 41791 35911 93795 05476  
35428 76318 44173 83015 67853 06837 50740 69922 33090 15855  
26504 13436 91126 17391 84412 29597 90726 49727 28049 48794  
70284 74172 50581 09378 35401 83959 32571

Attention (message repeated) Out

**12067 kHz, 09-12/11-12, 0845 UTC**

713/39 Attention

84826 43890 57750 94865 28606 08690 06721 84275 99120 55882  
19111 16897 47952 04561 54179 32423 40016 13442 23275 81586  
82803 84845 59885 01726 19598 74649 79353 96584 73916 68255  
72967 70770 79997 75395 33866 16986 20410 07077 56932

Attention (message repeated) Out

**14410 kHz, 09-12/11-12, 1045 UTC**

696/28 Attention

37052 27772 08165 31128 33747 73862 99916 99539 52461 53182  
36332 40203 24597 44286 87958 18792 21156 01908 08006 32787  
23697 45604 34350 01188 30266 84722 10205 01612

Attention (message repeated) Out

**6804 kHz, 10-12/13-12, 0700 UTC**

570/33 Attention

06620 79119 63303 94827 97415 35795 11911 82244 56327 72377  
27606 49958 58346 97780 12501 82810 08476 31148 06395 23479  
62767 08173 11938 39202 74732 32598 49472 67309 98520 95802  
38245 15277 64796

Attention (message repeated) Out

**14975 kHz, 10-12/13-12, 0715 UTC**

633/38 Attention

68694 59890 32683 79826 41848 62454 59834 00108 94732 36609  
90168 34252 66509 29863 92193 76317 13119 97813 03809 56616  
92899 17442 62280 23643 54572 15272 52698 03593 17144 99785  
97919 40676 48572 20924 27686 90237 04519 63571

Attention (message repeated) Out

**5432 kHz, 10-12, 1605 UTC**

233/35 Attention

45784 39291 82680 01517 68445 92782 11418 98260 31758 93129  
65966 58420 71331 46202 30258 72797 74044 30855 57085 83902  
69450 44237 86504 53544 40399 00178 73351 47259 50321 23468  
65351 27297 31093 75453 46107

Attention (message repeated) Out

**20167 kHz, 11-12, 0715 UTC**

759/32 Attention

06145 42566 55182 28855 55993 51661 57688 08175 71329 58293  
52670 72272 26945 54362 42599 48746 94014 27888 80196 28538  
64864 28308 95849 82950 03488 76863 17411 52293 40348 18575  
64502 27905

Attention (message repeated) Out

**10487 kHz, 13-11, 1910 UTC**

612/36 Attention

13855 77456 19864 92836 45829 87915 36292 47295 17616 66240  
77873 94640 38090 73645 99133 55509 29830 76264 45121 98714  
68652 07839 84318 74479 08820 63324 70235 44360 06558 82468  
11244 79757 32754 66049 34756 59829

Attention (message repeated) Out

**9079 kHz, 17-12/20-12, 1000 UTC**

300/38 Attention

31263 88077 67760 06210 35527 64506 07862 30924 87233 44399  
67125 64976 55709 96608 58788 53644 46389 81493 74841 09723  
99388 78743 84256 26426 35108 84976 33706 46802 86532 41283  
84142 21921 13485 95700 50252 68302 16356 92879

Attention (message repeated) Out

**7469 kHz, 18-12, 0930 UTC**

279/34 Attention

54687 77781 63826 51025 50813 52257 60309 35170 28889 00582  
08508 82076 46191 61770 23615 92383 94280 94932 71783 70331  
88322 44248 70511 65711 97978 22926 47471 65031 35814 05281  
87410 13792 05245 39158

Attention (message repeated) Out

**5089 kHz, 18-12/20-12, 1715 UTC**

972/35 Attention

83266 68603 78108 46774 13589 49095 72317 49908 10245 37131  
59520 01754 48108 04820 11416 10726 60443 73834 65321 98005  
96463 08512 53423 39549 23191 84053 73747 28013 89831 01021  
36067 25726 34860 54694 34176

Attention (message repeated) Out

**7840 kHz, 19-12, 0645 UTC**

517/39 Attention

00614 08355 08246 58562 35144 47512 40121 37418 26064 83028  
54505 18371 93793 11293 18128 56699 11929 18862 56897 74106  
16846 87010 14419 75150 52885 29081 04024 48873 64980 46681  
64821 05046 89589 95401 84713 31183 73862 63504 09564

Attention (message repeated) Out

**5371 kHz, 21-12/22-12, 0700 UTC**

496/33 Attention

98715 10487 49944 87304 49691 62253 99944 83077 18600 93145  
33234 05626 89971 39650 56967 91198 64403 49129 85381 14268  
00784 39082 37193 62650 65541 07948 55334 84054 43043 75662  
81774 50078 47026

Attention (message repeated) Out

**15915 kHz, 23-12/25-12, 0900 UTC**

533/38 Attention

72856 76166 71120 10118 23987 60981 99824 66333 31823 55828  
56253 43192 40026 25842 97080 41386 34964 10745 47729 08693  
71390 99347 59262 70585 78962 93514 10677 79127 08646 68509  
19970 19186 90727 88163 56298 06339 96721 71010

Attention (message repeated) (Out)

**12924 kHz, 23-12/29-12, 1745 UTC**

247/35 Attention

01310 78412 25965 08719 78525 26461 92937 98688 78675 77776  
15656 45115 57529 71123 03536 58952 26046 75672 61513 07336  
03167 91714 88926 27207 55978 08008 96915 36029 08281 69105  
78943 20020 89018 45246 76600

Attention (message repeated) Out

**14611 kHz, 24-12/25-12, 0820 UTC**

133/31 Attention

37027 55867 53916 15564 24169 32436 24776 90035 93157 73103  
20420 66554 35172 58852 95506 35090 47890 87281 19951 83729  
76590 15516 48070 58649 74059 91625 20091 22854 30441 67337  
57460

Attention (message repeated) Out

**24-12: After the message ended the station sent a test tone, 133/31 then off**

**4505 kHz, 25-12/28-12, 1610 UTC**

396/40 Attention  
08300 72359 80004 51005 37655 70531 33571 19759 28071 54947  
46387 71224 91242 45471 07669 55836 36463 18266 29928 38381  
19432 92306 44851 89559 47027 01890 12970 06409 44472 61392  
19389 73098 96068 70633 49125 87471 60367 90621 71996 57883  
Attention (message repeated) Out

**7850 kHz, 29-12, 0600 UTC.**

**Transcript probably contains errors due to very strong local interference and a weak signal.**

355/40 Attention  
82006 50403 53597 73048 89256 56656 27019 39043 18879 17776  
45510 78521 15628 78106 19932 83580 70762 20218 07830 57548  
32086 12320 96082 23763 15762 83257 29099 84327 13085 82959  
20988 35686 67972 36280 92506 61978 11029 73480 19993 79739  
Attention (message repeated) Out

**S06**

Pacific schedules

**11616/9322 kHz, 02-12/03-12, 0400/0420 UTC**

480 125 54  
51557 84422 62112 58694 13949 35261 08656 42915 41300 46905  
59571 52277 18563 68210 54618 37988 38867 25247 01274 98062  
70382 24373 33839 91572 21331 46023 26147 20962 45323 40164  
12581 55875 54222 59347 97073 96915 30708 90289 54791 02790  
57741 69933 56168 29264 07105 96918 68005 53381 54218 74393  
11297 81362 11409 45119  
125 54 00000

**11616/9322 kHz, 04-12/05-12, 0400/0420 UTC**

480 615 27  
86390 36128 99821 75554 76791 02132 80983 42846 49467 90633  
69308 14629 64547 73738 57623 91540 82726 17393 63037 71013  
25609 76860 73075 21703 66620 45033 55974  
615 27  
480 125 26  
90786 65621 37200 98850 34496 17782 24979 67053 94222 70831  
66495 76974 60507 10547 31036 52075 10784 99753 86035 71000  
20676 03571 67011 36033 00010 38175  
125 26 00000

**11616/9322 kHz, 06-12, 0400/0420 UTC**

480 480 480 00000

**11616/9322 kHz, 09-12/10-12, 0400/0420 UTC**

480 729 56  
25485 39224 92313 42525 56505 61430 88379 95590 23286 91587  
65238 34388 10396 95768 44451 97656 41188 14062 18027 78331  
19765 39123 84966 25002 32023 90147 64853 28626 72959 18185  
68183 92934 92452 03741 28125 11962 76665 32599 23386 03148  
07304 60811 46883 69437 65872 04773 99906 88831 75156 17340  
16448 54805 95082 35925 47403 16048  
729 56 00000

**11616/9322 kHz, 11-12/12-12, 0400/0420 UTC**

480 136 26  
25007 17171 84068 63127 77189 45959 30174 18444 47548 15757  
14793 47695 64730 56985 00934 95489 74609 88145 01787 06176  
65889 62594 08333 30619 47758 75569  
136 26  
480 592 26  
45995 68997 13195 61585 72898 63001 39919 75100 21871 24512  
79070 70548 06074 22836 69642 80187 48208 53483 74218 17092  
89489 76804 40917 28679 76069 43844  
592 26 00000

**11616/9322 kHz, 13-12, 0400/0420 UTC**

480 480 480 00000

**11616/9322 kHz, 16-12/17-12, 0400/0420 UTC**

480 371 56  
67359 48425 64116 63830 41001 06282 87097 74468 09069 02160  
49941 34763 84978 74107 72747 69516 89199 81773 15264 59954  
15340 05573 16449 60322 06871 99069 00159 45050 86688 05528  
01628 59911 06691 74551 94438 75635 09565 39765 22676 67394  
19967 43470 67927 68601 07285 19200 05853 72468 87169 68137  
31981 79758 54026 90302 61434 16154  
371 56 00000

**11616/9322 kHz, 18-12/19-12, 0400/0420 UTC**

480 296 25  
62660 81521 71480 54756 39526 35329 49170 92613 06628 13722  
24583 32120 42450 14654 90191 24191 19319 63497 66588 15409  
63283 31204 87020 39471 55114  
296 25  
480 713 25  
19953 98824 09238 59975 23929 04639 85848 70077 56469 11380  
09189 82132 29338 17885 48524 92825 52793 84598 26845 95992  
65412 26456 04064 92348 51520  
713 25 00000

**11616/9322 kHz, 20-12, 0400/0420 UTC**

480 480 480 00000

**11616/9322 kHz, 23-12/24-12, 0400/0420 UTC**

480 659 52  
22891 62190 83278 35319 71818 77232 51033 39468 32613 47349  
61933 43495 40136 20659 00586 65535 35543 30246 44007 23658  
49081 01942 69283 17905 29095 93064 16010 86276 40649 79305  
89463 64311 82222 31938 15430 02984 93904 52559 82627 24574  
55533 57528 33671 21225 98217 29305 90499 25862 77661 76867  
25228 10155  
659 52 00000

**11616/9322 kHz, 25-12/26-12, 0400/0420 UTC**

480 217 31  
07707 43297 46280 74375 45812 08111 21771 08830 02580 11998  
29233 25247 75051 00393 71993 96014 78843 94809 49787 55615  
40450 73108 53838 44813 61911 11576 71030 00248 12530 62267  
64344  
217 31  
480 356 27  
98763 47045 23408 82257 98041 91402 89236 52604 60789 85111  
82144 61534 40172 19661 62877 04246 44581 73986 86045 28480  
61133 00741 75245 28850 21073 22044 45534  
356 27 00000

**11616/9322 kHz, 27-12, 0400/0420 UTC**

480 480 480 00000

**No transmissions on 30 and 31 December**

Test transmissions

**11073/10212 kHz, 18-12, 0930/1020 UTC**

480 569 41

40936 75671 20613 26293 95980 13023 14938 36374 48587 17507

79426 90904 58972 84186 16970 82531 58285 53129 17384 50753

97232 21671 53291 79741 53156 62597 95384 36720 57304 67657

32705 56318 37508 61682 86039 01042 52858 31526 98054 84592

13913

569 41 00000

The Sunday 0800z transmission was a strange one. It was sending 480 480 480 00003. Then it fixed itself.

**9075/6792 kHz, 21-12, 1600/1630 UTC**

**11487/9371 kHz, 22-12, 0730/0800 UTC**

**9371 kHz, 22-12, 0800 UTC. 480 480 480 00003) (R1m30s) [2s silence] 480 (R2m35s) 371 42 93215...**

480 371 42

93215 40636 94265 49289 59624 61091 87838 30152 34040 45453

23207 46983 58238 58057 15307 97101 53748 51046 92843 41837

53158 29153 69192 10257 47693 59240 74238 49891 90948 91270

98475 39439 23098 81495 78529 18259 02828 78960 90176 83756

38505 05049

371 42 00000

**11073/10212 kHz, 25-12, 0930/1020 UTC**

480 256 48

04047 08728 05267 19738 21519 89872 21528 56135 57986 64760

76340 80436 38214 04724 05782 73268 16060 75157 47540 84357

84031 07276 85695 89859 81531 43253 30526 47521 86375 97840

18710 53574 69572 28391 93797 25463 54256 85918 82021 28064

86197 07031 70304 39536 58683 74517 34528 52873

256 48 00000

**10755 kHz, 20-12, 0914 UTC.** 1200Hz test tones then S06 975 once

**10755 kHz, 20-12, 0930 UTC**

975 (R4m) 103 24

07933 11692 49890 52181 16565 10153 96743 49319 67283 42334

17656 89385 22380 77856 26641 46913 51847 28393 65517 23363

99788 [57s silence]

975 (R1m15s)

51847 28393 65517 23363 99788 73 [37s silence] 24 9 [12s silence]

975 (R1m15s)

17656 89385 22380 [43s silence] 28393 [6s silence]

975 (R1m15s)

49319 67283 42334 17656 89385 22380 77856 26641 46913 51847

28393 65517 23363 99788 73407 01420 78396 103 24 9 [19s silence]

975 (R1m15s) 468 31

14172 60500 39258 36905 10874 66540 84730 53828 09193 56240

71726 21022 04974 27858 61619 70826 62236 88071 95791 25069

39695 53396 46432 67809 48260 06371 41260 87720 56661 92482

91866

468 31 00000

**Full recomposed messages:**

975 103 24

07933 11692 49890 52181 16565 10153 96743 49319 67283 42334

17656 89385 22380 77856 26641 46913 51847 28393 65517 23363

99788 73407 01420 78396

103 24  
975 468 31  
14172 60500 39258 36905 10874 66540 84730 53828 09193 56240  
71726 21022 04974 27858 61619 70826 62236 88071 95791 25069  
39695 53396 46432 67809 48260 06371 41260 87720 56661 92482  
91866  
468 31 00000

## **S06g**

### **10755 kHz, 17-12, 1810 UTC**

2378 975 12378 (R3m)  
975 975 975 123 [6s silence]  
975 975 12378 975 12378 (R45s) 678 41  
01242 65011 44869 16526 98198 56230 83438 73213 58161 25307  
08237 59797 31675 34019 48433 [47s silence]  
975 (R1m40s)  
08237 59797 [3m silence]  
975 (R1m25s)  
83438 73213 58161 25307 08237 59797 31675 34019 48433 98558  
87338 86374 04128 65273 55381 65231 23182 42092 35784 91667  
91809 39259 50645 05535 31130 46621 45463 90653 16862 00859  
69041 93068 64355 79372 [3s silence]  
975 (R40s) 97 [20s silence] 5 975 12378 975 12378 (R45s)  
90653 16862 00859 69041 93068 64355 79372 8 [3s silence]  
975 (R45s) 9975  
975 (R1m)  
90653 16862 00859 69041 93068 64355 79372 86688  
678 41 00000

### **Full recomposed message:**

975 12378 678 41  
01242 65011 44869 16526 98198 56230 83438 73213 58161 25307  
08237 59797 31675 34019 48433 98558 87338 86374 04128 65273  
55381 65231 23182 42092 35784 91667 91809 39259 50645 05535  
31130 46621 45463 90653 16862 00859 69041 93068 64355 79372  
86688  
678 41 00000

## **S11a**

### **23486 kHz, 04-12/06-12, 0725 UTC**

382/35 Vnimanije  
98974 99390 04019 60401 86631 69906 70941 91268 35302 68360  
80542 35016 04571 79947 02242 01500 49664 20630 50374 09909  
15743 94278 54157 32231 42135 15185 55123 33715 83186 02610  
52361 65196 83967 86158 66796  
Vnimanije (message repeated) Konets

### **5371 kHz, 07-12/08-12, 0830 UTC**

378/33 Vnimanije  
51532 27051 58272 46778 31763 17726 36773 76687 18124 47061  
39782 12600 12218 18970 67892 41247 90653 10345 91357 31133  
79801 70045 10721 30538 20856 79482 69873 71813 35164 26006  
10939 76808 96183  
Vnimanije (message repeated) Konets

**9050 kHz, 09-12/12-12, 0700 UTC**

479/37 Vnimanije

71341 60396 58111 82853 50484 39488 08930 30782 35397 86348  
14450 84993 12925 61994 01517 78504 22765 17132 50323 37596  
41673 54128 97636 73526 65607 04998 47391 32197 26455 28751  
44180 07530 09548 55836 87092 95262 96619

Vnimanije (message repeated) Konets

**6252 kHz, 09-12/13-12, 0915 UTC**

481/34 Vnimanije

71360 90278 75118 85804 78978 40346 76480 21874 69217 82679  
23317 73771 90026 66513 52242 60281 66396 00326 41702 73966  
00759 33274 84108 88162 81281 74604 80646 72578 84709 42102  
34102 44672 72757 76177

Vnimanije (message repeated) Konets

**11559 kHz, 17-12/19-12, 0445 UTC**

799/38 Vnimanije

40004 33543 46544 57408 89644 36028 91428 27401 74890 86526  
95448 93788 59120 86148 18182 43815 90320 47945 62406 75346  
73829 70705 27157 05837 34823 47825 94126 39302 20077 82706  
30706 88331 59785 71874 94297 06622 31963 15001

Vnimanije (message repeated) Konets

**11486 kHz, 18-12, 1850 UTC**

288/36 Vnimanije

31945 24127 25155 07307 86069 60693 94210 74358 88757 40794  
30556 80510 18017 35201 65720 59878 96367 37859 96406 73155  
98479 16588 98420 96434 00892 92835 87252 55620 68708 65189  
12584 15216 45858 67546 10822 08316

Vnimanije (message repeated) Konets

**10448 kHz, 24-12/27-12, 1400 UTC**

421/37 Vnimanije

23023 69283 24905 30278 06562 12146 41201 65243 48016 18076  
40888 97075 94448 56557 14103 40000 74315 34553 94117 76668  
87073 01282 19986 63186 86300 19362 92937 35441 65634 43604  
07932 30450 77173 68017 53310 95354 84438

Vnimanije (message repeated) Konets

**V07**

**18249 kHz, 01-12, 0200 UTC**

295 295 295 1 7644 89 7644 89

95836 10957 47669 60035 00189 36825 29487 00640 58937 49164  
00368 56718 65165 59420 07030 42237 59871 07170 32744 39690  
90939 87570 35509 24603 35104 21538 79223 96446 77496 36971  
77213 20187 85675 35211 65013 77079 02691 50067 07154 56897  
14147 12562 38207 47666 14961 62118 15386 54972 60759 91567  
30066 19977 80204 23235 51727 83464 57811 45367 29197 69068  
41860 28195 17004 74975 03741 27764 03849 66371 28858 68421  
70717 11147 19689 63810 94141 94184 89210 26337 25011 05333  
48044 76230 61571 49963 19082 75848 46718 14191 10046 000 000

**18249 kHz, 08-12, 0200 UTC**

295 295 295 1 4360 116 4360 116

35209 42347 63020 01816 69770 20130 60507 11746 91875 93506  
29387 10425 32909 44972 61353 28455 60276 59150 59290 59860  
99206 40614 56980 74500 28055 79281 30381 37640 20933 82499  
26204 78317 01038 23395 87602 53941 82807 82818 45723 40028  
98978 61238 62169 24520 23593 17146 88629 75577 24887 68655  
44121 47806 90799 02412 86016 45762 35431 41402 55852 75306

18772 34258 66835 23400 66433 64218 10841 80349 17069 93479  
20869 66125 70283 28422 50436 65338 45223 52899 53090 88416  
53992 65839 72168 72588 90766 98457 48475 26540 79810 35656  
33073 87337 40238 09144 90492 46726 51339 78279 05529 03916  
82561 24603 51480 15630 10609 81147 02892 55416 05253 31314  
61688 89927 46552 23768 94530 91400 000 000

#### 18249 kHz, 15-12, 0200 UTC

295 295 295 1 8455 74 8455 74  
20987 99124 74545 68391 03743 54824 40886 17507 16304 36196  
69030 46087 06666 99308 38154 82450 78995 71843 65655 93257  
77124 97183 79705 30185 03801 75725 04024 88142 67999 60984  
64715 68391 29908 36840 70208 69649 77534 26535 18233 55869  
20346 72772 30868 70075 98567 38377 97218 42499 02209 12834  
43101 27092 81846 08762 15131 81306 70015 62988 86139 37007  
77203 63249 77110 73294 16549 48950 05613 82658 22804 80335  
14468 86761 57389 23358 000 000

#### 18249 kHz, 22-12, 0200 UTC

295 295 295 1 5693 61 5693 61  
36725 85040 01126 97749 44585 02736 92909 39633 91264 97552  
86005 05930 13573 60634 27336 27187 80367 40472 14538 74790  
93056 78723 12963 10896 25183 63620 87643 60343 07498 41967  
29319 25100 21858 29640 62068 44445 76795 41469 88531 80226  
79526 88159 15790 80031 46105 61927 54666 60376 44655 35480  
14304 73360 42929 44423 10105 36232 09484 46692 38354 98847  
96786 000 000

#### 18249 kHz, 29-12, 0200 UTC

295 295 295 1 4114 112 4114 112  
98574 83302 19976 32874 53400 37345 60237 65663 85012 08578  
15201 45469 52894 38683 36524 77092 18847 71098 29799 66141  
34452 34200 85417 18161 69542 91419 37973 04990 29033 45939  
31983 74978 81497 32891 47093 81006 62906 89858 96828 79153  
25251 80821 94292 71936 31825 96889 57075 42119 00117 95273  
12566 76199 30550 10669 58459 76988 68993 28068 29722 03313  
64130 08436 72339 39980 15921 33536 13880 78920 50539 58268  
64015 50072 59024 62736 33028 10449 14826 79778 91598 32287  
40090 16229 85084 28952 57546 12587 71923 20549 80096 57795  
76249 28286 42006 27932 31636 54405 17731 04929 04325 59490  
70052 74527 47650 50215 16250 31853 10433 29330 42109 24096  
89733 13503 000 000

### V13 - New Star Broadcasting Station (星廣播電台 Xīngxīng guǎngbò diàntái)

#### V13 designators

- V13 (regular classification) : Standard format. AM/USB hybrid, introductory phrase spoken twice, three messages addressed to three different units, group counts between 30 and 35.
- V13a: Old format. AM mode, introductory phrase spoken only once, analogue voice synthesizer, 5-7 messages addressed to 5, 6, or 7 units with group counts between 20 and 39.
- V13b: AM/USB hybrid, introductory phrase spoken twice, 4 messages to 4 units, longer group counts between 50 and 69 in each message.

没有电报给你 (meiyou dianbao gei ni = no telegram for you)

再會 (zai hui = goodbye)

Transcripts by FSpY, Pigmon, AVX, Cryptlab

Comments by AVX

**Note that Station 1 has 3 different broadcasts. For the sake of clarity we indicate the different broadcasts with the letters a, b or c.**



**15388 kHz, 01-12, 1200 UTC. New Star Broadcasting. Station 1 (a)**

Unit IDs: 5356, 5510, 5618

Group Counts: 50, 52, 51

0313 8609 2025 2728 6715 3186 1617 3722 4256 0820  
4747 0705 8407 0597 2932 9171 3678 7745 3278 6976  
8440 7179 3066 1626 3294 4659 2466 8255 2790 4817  
1491 8742 2872 7726 9763 4924 8878 8271 0202 1410  
1434 5007 0216 5928 0096 7744 6505 7704 7080 5574

6810 5927 9553 6439 9982 2437 6760 2956 0858 7722  
4952 8815 5099 5732 9530 6847 3386 0076 7052 9888  
7739 7494 1976 1436 9135 7841 5892 8646 6893 2878  
0936 6288 2799 8770 1612 2731 5436 9606 1743 1570  
2680 1774 5767 4981 2851 1559 6097 7396 7463 0803  
0763 0597

7954 8058 3815 6119 4367 7407 4938 3412 8187 8169  
1413 0934 0671 0602 1938 6728 2274 5702 2544 3658  
8370 3145 3148 6563 6921 9029 3186 4786 2964 7666  
7404 5519 7235 4116 5420 5957 8804 6688 1123 4716  
4036 1147 0538 5485 6733 0807 9216 8386 6813 9269  
2772

**8169 kHz, 01-12, 0000/0100/1200/1300 UTC. New Star Broadcasting. Station 1 (c)**

"No telegram for you". These statements are only sent on full hours, not at hh30.

**20025 kHz, 02-12, 0100 UTC**

Unit IDs: 5376, 7888, 8426

Group Counts: 34, 33, 33

3642 8107 1872 3056 1635 1767 4063 3051 3797 0963  
5123 4261 7630 2297 2634 2212 1468 1864 1906 1110  
4152 6721 3661 4625 3931 2672 0663 8986 7220 3676  
0440 5694 3265 6306

5031 0234 6566 9619 1752 5855 1806 2438 1684 6706  
2299 0165 3018 1389 4376 5325 1773 5671 0219 4014  
1600 7389 9835 7151 1248 1609 3512 0401 2884 3436  
9867 5146 9172

4972 6520 8902 4477 0523 0100 3073 8445 3861 6613  
9537 8746 0389 3385 6885 4438 2527 3443 5451 7384  
1459 9312 9878 3995 6880 5492 1720 9342 3859 4647  
4561 2788 9870

**8169 kHz, 02-12, 0200/0230 UTC. New Star Broadcasting. Station 1 (b)**

Unit IDs: 3345, 4604, 5581

Group Counts: 34, 30, 35

1095 7159 3264 0747 8429 3049 0294 8257 5870 1395  
7262 3239 9999 8874 0172 0662 7092 4702 8287 4986  
6108 8785 5993 6802 5078 4709 5367 6302 9142 6780  
6915 5106 5208 5283

6136 5698 0226 7014 7601 9105 6680 1934 0575 1391  
3098 8677 6957 0985 1365 6433 4913 5005 8448 6574  
6245 0778 7863 6489 2323 2161 7488 3735 9800 4146

2317 2078 8628 3653 1870 5245 8923 8828 7392 9339  
4790 9815 0567 9039 4513 3600 1974 8119 9120 9834  
8572 9998 3631 7628 8684 1781 6175 0679 7859 7457  
9027 4763 2427 1212 7360

**9276//13974 kHz, 02-12, 0300 UTC. New Star Broadcasting. Station 2**

Unit IDs: 4133, 4862, 7263

Group Counts: 34, 33, 34

8256 7451 4770 6131 8659 5924 2482 8485 5055 3139  
8293 5009 9521 7273 7589 3459 1140 8402 7711 2471  
7625 1284 7326 4749 2626 7081 0562 1496 0725 6265  
4585 3456 9518 2031

9429 9849 1725 6862 1203 3575 1049 8667 5708 8414  
2656 7836 4397 0521 7204 3935 9614 7839 7760 2957  
1441 1332 3600 7415 9161 3013 0989 1368 5305 2833  
0084 5342 8917

0162 8536 1421 5206 6796 4906 2259 7550 4581 2270  
9026 4825 2413 3770 9851 8272 0947 0688 0277 5468  
0399 4182 4531 1635 7374 2156 7192 4527 5771 2783  
4731 5459 3695 3369

**18040 kHz, 09-12, 0000 UTC. New Star Broadcasting. Station 1 (a)**

**19052 kHz, 09-12, 0530 UTC. New Star Broadcasting. Station 1 (a)**

Unit IDs: 0419, 0506, 1193, 1842, 2081, 2196, 2220

Group Counts: 11, 14, 13, 14, 16, 15, 17

6097 7396 7463 0803 0763 0597 1065 7954 8058 3815  
6119

7407 4938 3412 8187 8169 1413 0934 0671 0602 1938  
6728 2274 5702 2544

8370 3145 3148 6563 6921 9029 3186 4786 2964 7666  
7404 5519 7235

5420 5957 8804 6688 1123 4716 4036 1147 0538 5485  
6733 0807 9216 8386

9269 2772 7008 7344 4999 6637 1582 2299 9464 3648  
1266 9868 3062 0544 1019 8666

6970 1006 6687 0165 3098 9042 5351 3270 4423 9005  
3471 3537 4877 0715 8507

1803 9227 4935 1275 8922 4032 2075 8070 5873 1098  
6231 9275 5405 3260 4482 2267 1846

**8169 kHz, 08-12, 0200/0230 UTC. New Star Broadcasting. Station 1 (b)**

Unit IDs: 3285, 4941, 6076

Group Counts: 32, 34, 33

6530 1336 2164 0497 9669 0365 6579 8044 8192 8383  
7235 0570 0188 9297 4541 1601 0765 7789 8007 3196  
9794 7586 9995 0797 4472 6664 0336 0447 7715 2902  
3465 7995

8671 2419 5093 0023 6649 8613 6627 7201 8417 9641  
1571 4068 4462 8544 0202 1063 1474 9466 5142 5088  
6715 2802 5303 2574 6786 8700 2507 1627 8073 6038  
3368 4222 3979 5918

7441 3333 4148 8855 0148 5764 5519 7803 0184 5989  
1340 7500 5879 1657 0357 5685 5175 8690 8206 4138  
6458 6830 1814 7127 0499 8233 4340 9078 6879 6639  
8685 8764 3363

**8169 kHz, 08-12, 0200 UTC. New Star Broadcasting. Station 1 (c)**

"No telegram for you" statement

**13974 kHz, 08-12, 0330 UTC. New Star Broadcasting. Station 2**

Unit IDs: 2815, 8004, 9740

Group Counts: 30, 33, 30

2728 4537 8880 6821 8737 8993 1943 3301 1832 3086  
9726 6463 0824 9490 1096 7389 3594 5787 4546 9270  
2559 4596 7517 6180 8986 0430 9194 5748 1829 2389

7246 6340 4044 7041 0094 2409 3245 2263 6420 3776  
5942 5952 6981 1120 7530 0076 1187 6566 6589 9737  
4965 0126 0726 4564 8365 9756 5749 3122 6710 3654  
8091 2461 9944

7875 8257 5211 8602 9086 5646 3509 7156 0969 9012  
4988 4699 9598 8070 3673 9152 7113 5798 3394 4396  
0048 7627 3256 5757 3064 8003 5670 2015 2661 4793

**15890 kHz, 08-12, 0000 UTC. New Star Broadcasting. Station 3**

Unit IDs: 0116, 1656, 6456

Group Counts: 31, 35, 33

4292 3986 4045 1291 0168 7292 8089 4235 0293 8966  
2554 0747 1815 1195 7381 1618 0568 7368 0927 3796  
6035 7564 7906 1917 8603 9730 2133 0070 9164 8423  
6071

8504 6962 5184 7692 1103 7055 9312 7016 1513 1865  
7325 8275 3623 9956 3147 0294 4065 0277 2483 2820  
3504 6462 2329 3071 1142 6608 6828 6230 6755 6281  
4833 7553 1405 9793 3563

6303 2866 0045 8755 6438 5039 5711 1665 0060 2178  
2816 4150 4369 7813 4087 4959 0621 5036 4870 9193  
3793 1418 9263 7598 5191 6197 6626 2724 0804 0609  
8576 1393 2384

**20025 kHz, 08-12, 0100 UTC. New Star Broadcasting. Station 4**

Unit IDs: 1489, 1619, 4741

Group Counts: 33, 34, 32

3563 6630 9321 6533 4919 5132 2886 0114 2469 2180  
6692 6546 7792 8022 5436 6307 9743 9835 0757 5659  
3982 8627 3944 5176 4403 9181 7438 6920 2043 7742  
1986 6318 5194

7507 3958 0323 3319 8854 2298 9264 9849 8779 4557  
7112 7249 3006 9527 8444 0238 8881 7372 6829 1405  
3158 9908 3741 5494 3608 9483 6504 0768 7257 9485  
6025 6847 4272 6088

8170 1055 1701 4768 7829 5184 9438 6134 2968 6900  
0851 4142 4957 1405 8188 4161 3805 3111 8039 4229  
6354 6872 1541 7104 9313 5505 9472 3544 5555 1430  
5421 6648

**20095 kHz, 08-12, 1000 UTC. New Star Broadcasting. Station 5**

Unit IDs: 0242, 6123, 64800

Group Counts: 34, 31, 34

2254 4571 8472 1571 6248 1840 5068 7509 7718 2778  
2651 1744 8879 3457 6126 7224 2135 9265 3536 1837  
4191 9616 1997 4913 9910 4756 9957 9046 2762 3636  
8274 6967 1884 2671

6458 5735 2939 4001 8071 1073 3796 5252 7011 2707  
7276 2631 9864 8548 9436 5651 9676 0786 6621 1122  
1679 8084 0361 8323 2885 7074 2942 4342 5244 8474  
8915

6036 6264 3965 2120 7777 9999 9570 9663 8216 2310  
1168 7169 6335 6523 4649 8172 4888 0475 1285 3462  
4314 0616 1727 6392 6301 6018 4757 9450 7448 0606  
0668 9764 3486 3978

**Comments December 8<sup>th</sup> :**

- 8169 kHz at 0200/0230z and 11430 0300Z/0330z : no mixing between stations 1a and 1b
- Station 3 was sent also on 8300 kHz in parallel at 1200/1230/1300/1330/1400/1430/1500/1530z
- Station 2 was NOT observed in parallel on 13974 kHz at 0200/0230/0300/0330z as this was the case last week occasionally.

**Comments December 12<sup>th</sup> :**

- Station 3 continues on regular freqs 0000z on 15890 kHz and 0100z on 18040 and 8300 kHz too!
- Also Station 1b sent at 0100z on 8169 kHz instead of Station 1c, which still has a "no msg available statement" !
- Station 1b only sent a message at 0100z, while Station 1c was expected with "no telegram for you" //8169.
- Nothing at 0130z.
- 0200/0230z: Station 1b correctly on 8169 kHz. 0300/0330z at 11430 kHz with no mixes with station 1.
- 1000/1030/1100/1130z : Station 2 also in parallel on 13974! (with 20025 at 10:xxZ and 19052 at 11:xxZ)
- Station 3 continues to sent on 2 parallel freqs. 1400/1430/1500/1530Z: 20095 and 8300 kHz
- Station 1c was back at 1200/1300z on 8169 kHz with the current "No msg available" statment.

**Comments December 13<sup>th</sup>**

- 0000/0100z 8169 kHz: Station 1c : "No msg available" statement
- 0000/0030/0100/0130z: Station 3 on 15890 then 18040 kHz as usual, but also on 8300 kHz in parallel
- 0200/0230/0300/0330z: Station 2 on 8300 then 9276 kHz as usual, but also on 13974 kHz in parallel
- 1000/1030/1100/1130z: Station 2 on 20025 then 19052 kHz as usual, but also on 13974 kHz in parallel
- V13 continues to send Station 3 at the regular sked frequency and 8300 kHz as an additional one, seen in all slots from 1200-1530z.

**Comments December 14<sup>th</sup>**

- 0000/0030/0100/0130z: Station 3 on regular freqs 15890/18040 kHz, also parallel with 8300 kHz
- 0200/0230/0300/0330z: Station 2 on regular freqs 8300/9276 kHz, also parallel with 13974 kHz
- 1000/1030/1100/1130z: Station 2 as scheduled 20025/19052 kHz, but parallel with 13974 kHz
- 1200/1300z: Station 1 on 8169 kHz with "No telegram for you" statement
- 1200/1230/1300/1330/1400/1430/1500/1530z: Station 3: as scheduled on 13974/11430/20095/20095 kHz and also parallel 8300 kHz

**18040 kHz, 16-12, 0000/0030/0130 UTC. New Star Broadcasting. Station 1 (a)**

**19052 kHz, 16-12, 0100/0130 UTC. New Star Broadcasting. Station 1 (a)**

Unit IDs: 5886, 5995, 6016, 6122, 6695

Group Counts: 30, 31, 38, 30, 32

0313 8609 2025 2728 6715 3186 1617 3722 4256 0820  
4747 0705 8407 0597 2932 9171 3678 7745 3278 6976  
8440 7179 3066 1626 3294 4659 2466 8255 2790 4817

8742 2872 7726 9763 4924 8878 8271 0202 1410 1434  
5007 0216 5928 0096 7744 6505 7704 7080 5574 2060  
6810 5927 9553 6439 9982 2437 6760 2956 0858 7722

4952

5099 5732 9530 6847 3386 0076 7052 9888 7739 7494  
1976 1436 9135 7841 5892 8646 6893 2878 0936 6288  
2799 8770 1612 2731 5436 9606 1743 1570 2680 1774  
5767 4981 2851 1559 6097 7396 7463 0803

0597 1065 7954 8058 3815 6119 4367 7407 4938 3412  
8187 8169 1413 0934 0671 0602 1938 6728 2274 5702  
2544 3658 8370 3145 3148 6563 6921 9029 3186 4786

7666 7404 5519 7235 4116 5420 5957 8804 6688 1123  
4716 4036 1147 0538 5485 6733 0807 9216 8386 6813  
9269 2772 7008 7344 4999 6637 1582 2299 9464 3648  
1266 9868

**1143 kHz, 15-12, 0300/0330 UTC. New Star Broadcasting. Station 1 (b)**

Unit IDs: 5615, 5796, 7813

Group Counts: 30, 30, 31

0209 6673 2827 4201 5790 1892 8751 7989 0692 6157  
3958 3942 4789 6923 7455 9429 4190 3117 0006 3335  
1790 2109 9624 9616 3059 2389 6580 3878 2274 3325

9229 4453 3770 2678 4225 3224 3921 4787 2714 7841  
8468 8227 5103 4973 8224 0566 8934 8269 2486 8517  
3767 2254 6734 2459 8103 2016 9947 1593 9610 1071

3845 7924 5232 8532 8364 0039 0961 4282 0657 6013  
4653 2945 3962 0470 3742 4797 7525 9692 1679 5030  
8597 9750 1345 8251 4167 3390 5599 7791 7175 3062  
4531

**8169 kHz, 15-12, 0000/0100 UTC. New Star Broadcasting. Station 1 (c)**

**11430 kHz, 15-12, 1200/1300 UTC. New Star Broadcasting. Station 1 (c)**

No telegram for you

**13974 kHz, 15-12, 0200/0230 UTC. New Star Broadcasting. Station 2**

Unit IDs: 1179, 7599, 9884

Group Counts: 33, 34, 33

6670 3918 7975 1131 5413 1402 8775 9857 1790 0657  
2948 3520 7784 8584 1127 3550 7335 2664 2274 4979  
1352 1593 7639 4031 4032 1270 6533 3098 7304 1981  
5186 2989 1389

9317 1613 0935 5562 2130 5259 9881 8725 5390 6433  
4040 6687 5632 0800 3353 3403 2739 3392 1172 9528  
4607 7070 4719 0955 3710 9827 5742 4370 2341 4151  
6851 9328 4557 3189

7606 4029 0390 5626 3655 2580 8317 5212 7531 5307  
2687 9045 1817 1512 4637 6121 4932 0284 8045 5399  
9745 5737 2935 8192 0174 7045 0011 2180 3828 9002  
6033 5189 7996

**8300//15890 kHz, 15-12, 0000/0030/0100/0130 UTC. New Star Broadcasting. Station 3**

Unit IDs: 4259, 7414, 8838

Group Counts: 34, 32, 35

5248 5743 4541 6691 3011 1420 8529 2239 6230 1284  
1646 1703 1129 0511 1242 7404 6784 4157 7995 3414  
1752 0659 8805 0986 2644 8031 2068 9094 1311 8482

8320 2752 4158 7234

1114 4530 2670 6349 5336 0733 3598 0644 1833 9881  
5827 2503 2969 1102 0948 2560 2583 7877 3326 1648  
7195 5343 9235 5585 3461 0254 2014 6775 5673 9758  
5978 9109

1407 0716 6809 5606 9737 0031 1407 6294 4982 8583  
6545 0949 5496 2866 2533 2727 9160 4133 0696 5299  
9052 6093 0919 1459 6855 7610 9660 6283 7667 0150  
3173 4308 8910 6481 4817

**20025 kHz, 16-12, 0130 UTC. New Star Broadcasting. Station 4**

Unit IDs: 3621, 5022, 7292

Group Counts: 32, 30, 35

0375 7880 2528 2713 0800 7633 1261 8136 2536 0215  
9357 5935 7056 6011 3925 7193 1258 0404 3539 7717  
9221 9786 4512 7600 8076 0556 9709 3339 7798 0759  
0755 7681

2417 0846 3751 0766 3116 5566 8834 3055 1480 2354  
1897 5998 3357 3435 7695 3199 7427 6105 4822 4480  
7341 7571 0036 8061 9497 5370 8256 9215 4470 2163

9227 0986 2024 6145 1937 4918 4784 7243 7737 6860  
1621 4761 5155 4503 7762 8987 5165 3232 9879 6016  
5219 7453 8656 0327 0217 8217 1859 5687 5178 9250  
0327 2302 9626 5713 6717

**20095 kHz, 15-12, 1000/1030 UTC. New Star Broadcasting. Station 5**

**20025 kHz, 15-12, 1100/1130 UTC. New Star Broadcasting. Station 5**

Unit IDs: 7366, 8712, 9008

Group Counts: 30, 31, 35

2250 7832 2342 7239 5321 9554 7976 2377 2651 6523  
0572 3799 7506 1621 9004 8237 5375 7189 9558 9926  
1584 9242 4790 5755 9010 8884 8357 9033 9923 6876

9965 3516 0190 0354 9643 7415 2196 2635 6434 7368  
7956 8223 0169 0558 0282 7966 1079 5590 3886 8816  
6795 2795 7054 0390 5816 9581 5343 9722 8740 5638  
3279

3715 6772 1511 9587 0268 9332 9631 9969 1805 1709  
9970 8404 6547 2691 8841 3752 9260 3368 0892 7823  
5076 5161 9553 4062 5169 0127 3081 2496 2173 1381  
0279 9188 3543 4811 2943

**Comments December 16<sup>th</sup>**

- Simulcast transmissions of Station 2 on 13974 and Station 3 on 8300 for all daily slots stopped on 16-12, 0000z
- No Station 1a-1b mix at 0200/0230/0300/0330z
- Station 1b was still on 8169 at 0300/0330z, not on correct freq. 11430 on 16-12
- Station 2 sent a carrier only on 16-12 at 0200/0230z on 8300, whilst it sent a message at 0300/0330z on 9276 kHz

**Comments December 19<sup>th</sup>**

- 0000/0030/0100/0030z: no Station 1(a)
- 0000z: Station 1c, 8169 kHz, no msg available statement, but NOT heard at 0100z
- 0000/0030z: Station 3, 15890 kHz, and simulcast on 8300 kHz but no simulcast at 0100/0030z
- 0130z Status : Station 1a back on 19052 kHz
- Station 3 on 18040 kHz and Station 4 on 20025 kHz
- No simulcast by Station 3 on 8300 kHz.
- 0130z: Station 1(a) is back on 19052 kHz

- Station 3 on 18040 kHz and Station 4 on 20025 kHz
- No simulcast for Station 3 on 8300 kHz

**Comments December 20<sup>th</sup> - December 24<sup>th</sup>**

- Station 1a was not on the air from 20-12 to 23-12  
New messages were transmitted on TUE 24-12, 0000z on 19052 kHz  
So the sked changed. Station 1a 0000/30z is now on 19052 kHz.
- Station 1c was not on air since THU 19-12 but came back at SUN 22-12, 0000z on 8169 kHz  
Transmitting only on the hour (0000/0100/1000/1100)
- Station 2 was a carrier only show on TUE 24-12 on 8300 kHz at 0200/30/0300/30z.
- Station 1c didn't show up on WED 25-12 at 1000/1100z on 8169 kHz

**19052/14944 kHz, 25-12, 0000/0130/1400 UTC. New Star Broadcasting. Station 1(a)**

Unit IDs: 6749, 6783, 7127, 7130, 7153, 7300

Group Counts: 20, 28, 25, 29, 28, 27

0313 8609 2025 2728 6715 3186 1617 3722 4256 0820  
4747 0705 8407 0597 2932 9171 3678 7745 3278 6976

7179 3066 1626 3294 4659 2466 8255 2790 4817 1491  
8742 2872 7726 9763 4924 8878 8271 0202 1410 1434  
5007 0216 5928 0096 7744 6505 7704 7080

2060 6810 5927 9553 6439 9982 2437 6760 2956 0858  
7722 4952 8815 5099 5732 9530 6847 3386 0076 7052  
9888 7739 7494 1976 1436

7841 5892 8646 6893 2878 0936 6288 2799 8770 1612  
2731 5436 9606 1743 1570 2680 1774 5767 4981 2851  
1559 6097 7396 7463 0803 0763 0597 1065 7954

3815 6119 4367 7407 4938 3412 8187 8169 1413 0934  
0671 0602 1938 6728 2274 5702 2544 3658 8370 3145  
3148 6563 6921 9029 3186 4786 2964 7666

5519 7235 4116 5420 5957 8804 6688 1123 4716 4036  
1147 0538 5485 6733 0807 9216 8386 6813 9269 2772  
7008 7344 4999 6637 1582 2299 9464

Note: same batch of messages sent on the week of November 2nd, but addressed to different units this time.

**8169 kHz, 22-12, 0200 UTC. New Star Broadcasting. Station 1 (b)**

Unit IDs: 0162, 3703, 5089

Group Counts: 30, 30, 31

5440 0516 1781 8213 8366 6098 3291 2674 3927 2284  
5447 1307 0153 1374 1535 3368 4639 6453 6082 3723  
8777 1652 6029 0748 3685 8717 3557 3355 8403 4528

8839 5165 6536 6543 4583 6595 4303 6461 2282 3959  
5091 8093 3904 3094 6379 8355 6174 7742 0762 3800  
6971 3096 1065 1900 1056 4810 2224 9479 2061 1157

1365 5167 3366 5356 1228 8608 7170 1220 0891 4831  
4241 5626 7290 5148 8073 3902 6960 4024 8541 7437  
2731 2563 9883 5810 6452 3937 4631 7835 0260 9308  
0697

**8169 kHz, 24-12, 0000 UTC. New Star Broadcasting. Station 1 (c)**

No telegram for you statement

**9276 kHz, 22-12, 0200 UTC. New Star Broadcasting. Station 2**

Unit IDs: 3065, 4725, 7918

Group Counts: 33, 35, 33

6693 3898 5501 8887 8899 4994 3295 9782 8759 4977  
8174 1987 2959 2837 3029 9665 0186 4064 5855 2383  
4099 1875 9150 4486 1939 7026 7891 9931 7148 0759  
2112 0812 2068

7561 8574 6287 9251 9047 4685 2274 3901 5634 3545  
3414 7087 1070 1055 6277 1842 5383 1866 9399 8855  
7928 0880 2627 3116 1685 1491 6987 6525 3089 8574  
7352 2930 8650 2918 1552

0327 0364 9376 3029 9766 7848 4562 3358 3600 6342  
4929 7765 6836 1348 0433 4348 0976 2916 3920 7184  
1100 0248 3209 9422 5773 5456 5849 8169 7293 8090  
9692 7915 4971

**15890/18040 kHz, 22-12, 0000/0100 UTC. New Star Broadcasting. Station 3**

Unit IDs: 0207, 4355, 4844

Group Counts: 33, 33, 31

2118 4374 8791 0408 3449 1598 0745 5331 9043 1724  
9174 7219 4713 0242 5622 4419 1298 9008 5333 9135  
2281 6997 9270 7488 8903 8513 5608 4297 5229 5974  
9005 6345 9614

5873 0080 8464 5325 2150 7541 3863 4482 1845 0973  
8800 2729 6851 0973 5167 1624 0645 5419 7767 1723  
3686 2733 2548 0298 1941 5912 0427 4797 7708 3696  
7783 9451 9714

6663 1730 9732 0340 6422 6803 7596 9694 3596 0486  
0873 2753 1075 7305 4150 7507 9856 0264 6104 9235  
8745 7593 4376 7134 7054 5613 3994 5551 2163 7084  
3051

**15388/20025 kHz, 23-12, 0000/0100 UTC. New Star Broadcasting. Station 4**

Unit IDs: 2573, 6069, 9806

Group Counts: 35, 30, 32

4511 0650 3734 5882 1653 4217 1599 0998 6373 3579  
2601 3943 4344 3084 4804 9419 0332 3694 2356 5765  
0046 1823 3073 2617 3938 3307 8554 5071 0666 0832  
1412 3359 3429 8285 8985

6985 8520 4174 3893 2351 8617 2206 6254 0087 1019  
0641 5528 3826 3087 1664 1356 6803 4526 6766 7065  
4712 8950 0588 7424 8740 5848 2500 5615 9779 0911

0865 2047 1188 3894 0837 3829 3932 3819 3077 6581  
0661 9400 2280 6617 4085 8593 0776 1843 7563 9007  
3270 4590 4892 2173 7047 2068 3159 4574 6885 8284  
2228 3166

**20095/20025 kHz, 22-12, 1000/1100 UTC. New Star Broadcasting. Station 5**

Unit IDs: 1220, 2903, 7026

Group Counts: 34, 32, 33

7570 2526 3514 4627 0378 7407 8995 3436 8279 3630  
2176 0860 8588 4743 0219 2804 8538 3308 9484 2131  
2339 3493 8534 8212 5610 0299 8719 3262 2892 4791



3468 0434 4093 6675

4052 1538 7894 8168 4881 9448 6998 9005 3730 5065  
7331 9584 0103 4868 4166 0416 4459 8798 6760 3885  
0960 0424 9253 8723 7134 7261 4889 3998 4754 5511  
5888 1820

9628 5921 5085 4016 7255 7857 0313 9772 5016 6932  
9065 3450 6646 4251 5191 2614 9595 1521 3943 5732  
8363 4663 6987 4669 1443 3797 6177 3830 2317 2838  
7181 7085 0032

**Comments December 28<sup>th</sup>**

- Skeds seem stable so far, and no mixes between Station 1a/1b occurred at 0200/30/0300/30z slots on 8169/9276 kHz.
- Station 1c 1200/1300z now moved from 8169 to 11430 kHz. It therefore interfered with station 1c at 1300z.

**Comments December 29<sup>th</sup>**

- Station 1c 1200/1300z slots are back on 8169 kHz

**8169 kHz, 29-12, 1200/1300 UTC. New Star Broadcasting. Station 1(c)**

"No telegram for you" statement.

**19052 kHz, 30-12, 0100/0130 UTC. New Star Broadcasting. Station 1(a)**

Unit IDs: 7436, 7658, 7666, 7802

Group counts: 40, 41, 46, 49

0313 8609 2025 2728 6715 3186 1617 3722 4256 0820  
4747 0705 8407 0597 2932 9171 3678 7745 3278 6976  
8440 7179 3066 1626 3294 4659 2466 8255 2790 4817  
1491 8742 2872 7726 9763 4924 8878 8271 0202 1410

5007 0216 5928 0096 7744 6505 7704 7080 5574 2060  
6810 5927 9553 6439 9982 2437 6760 2956 0858 7722  
4952 8815 5099 5732 9530 6847 3386 0076 7052 9888  
7739 7494 1976 1436 9135 7841 5892 8646 6893 2878  
0936

2799 8770 1612 2731 5436 9606 1743 1570 2680 1774  
5767 4981 2851 1559 6097 7396 7463 0803 0763 0597  
1065 7954 8058 3815 6119 4367 7407 4938 3412 8187  
8169 1413 0934 0671 0602 1938 6728 2274 5702 2544  
3658 8370 3145 3148 6563 6921

3186 4786 2964 7666 7404 5519 7235 4116 5420 5957  
8804 6688 1123 4716 4036 1147 0538 5485 6733 0807  
9216 8386 6813 9269 2772 7008 7344 4999 6637 1582  
2299 9464 3648 1266 9868 3062 0544 1019 8666 5543  
6970 1006 6687 0165 3098 9042 5351 3270 4423

**8169 kHz, 29-12, 0200 UTC. New Star Broadcasting. Station 1(b)  
11430 kHz, 31-12, 0300 UTC. New Star Broadcasting. Station 1(b)**

Unit IDs: 2698, 5393, 7027

Group counts: 30, 30, 31

6949 1767 2528 7315 6222 6862 9119 6199 9797 5043  
3855 5030 1920 6319 5535 8033 3097 7378 3199 3955  
8077 9384 9841 4499 8103 3190 4937 7367 2540 3056

8913 3207 7837 4717 8125 1788 2587 6353 8111 2016  
6835 7941 7403 2939 9352 4773 3433 6913 1764 9809  
8092 1618 1439 5510 3202 5405 5691 9294 0008 8264

8019 8938 4498 7706 2948 8545 7284 3775 1847 3984

0217 6537 9280 6473 2995 9461 2214 7644 8042 8011  
3215 5308 8582 1462 9984 4353 7217 5964 1762 3535  
9812

Note: The station aired messages throughout the month that consisted of 30, 30 and 31 groups.

**8169 kHz, 29-12, 0000 UTC. New Star Broadcasting. Station 1(c)**

No telegram for you

**8300 kHz, 29-12, 0200 UTC. New Star Broadcasting. Station 2**

Unit IDs: 6738, 6817, 8342

Group counts: 31, 32, 32

8860 5890 3557 2893 3070 0075 9284 9686 4044 1411  
5225 6433 7015 0361 1846 0256 2613 4220 5859 3432  
0253 0260 6573 6128 0468 5290 9301 7807 4509 0756  
4293

2781 1571 0405 2411 6677 8960 5575 4491 1780 5435  
4789 7260 6692 0600 1063 8529 7109 9448 4167 9558  
5848 3179 0163 0861 6671 3008 7491 5031 8514 7203  
7359 6709

6710 8140 5652 4092 5641 4951 4360 3557 9839 2024  
2117 8505 4883 4162 5728 4102 3193 1569 8970 2143  
1450 0274 4006 7171 3177 3030 6271 6402 7528 2263  
1208 9361

**15890 kHz, 29-12, 0000 UTC. New Star Broadcasting. Station 3**

Unit IDs: 0285, 5139, 8015

Group counts: 30, 33, 33

8565 0915 5826 9016 2308 4535 6548 3079 9097 7831  
7723 9243 3579 0628 9107 8644 6235 7952 1844 0119  
9621 4426 7608 1145 0768 7774 9831 8153 2094 0430

2697 3477 4076 8605 4419 3841 9370 4180 7885 3031  
1373 6327 4681 0978 6517 5036 5768 9513 5083 5125  
1786 6232 7288 6898 8250 2225 8852 3597 3814 2235  
8913 6658 0511

5718 6049 6815 5051 5514 9461 2129 2128 7015 9239  
4621 6984 1069 9537 9436 8274 5912 3316 5054 3655  
9459 8103 8591 2788 9204 3569 1952 3102 9616 8073  
5833 6736 1874

**20025 kHz, 29-12, 0100/0130 UTC. New Star Broadcasting. Station 4**

**14944 kHz, 29-12, 1300/1330 UTC. New Star Broadcasting. Station 4**

Unit IDs: 5051, 5133, 6810

Group counts: 32, 33, 33

9751 3915 7944 9283 8508 0260 2991 2537 3942 0245  
5235 6287 6508 4700 2894 4031 8670 0695 9927 4751  
8382 0193 5211 8692 7274 8703 4297 3126 8050 1808  
1537 7521

5078 9507 3919 0077 5519 5088 0879 2649 5854 2928  
7631 7112 0924 1608 1661 7794 9416 2672 5386 4025  
5048 6047 8157 9284 6652 4321 7796 6485 0701 3989  
6990 9625 5634

1712 8091 1301 8996 5803 2848 5603 5024 1833 0392  
8941 9973 3186 3546 1784 3695 2858 9358 7280 5850

7220 7078 8640 8404 2610 9225 0663 6011 7350 7200  
4491 5386 2967

**20095 kHz, 29-12, 1000/1030 UTC. New Star Broadcasting. Station 5**  
**20025 kHz, 29-12, 1100/1130 UTC. New Star Broadcasting. Station 5**  
Unit IDs: 1158, 2603, 7262  
Group counts: 34, 35, 31

4289 9654 2443 2532 2739 9569 1760 3354 1130 7415  
4470 9591 5502 7069 0752 1920 1273 7035 7557 0329  
2027 2998 4541 5064 6986 2827 7484 6588 8187 6155  
7817 1056 9637 1827

7452 2249 1377 5572 5747 8031 0196 6765 8364 1928  
6892 8325 5076 0530 9432 8866 7479 4063 8013 1351  
9450 3490 6187 3362 1048 9389 6777 0038 0367 5683  
3111 6632 3893 8153 0212

6408 6984 2271 3417 2751 7651 4451 5058 6276 0700  
5408 7246 9876 5558 1524 3514 3390 9860 0738 6003  
1333 5068 2737 6264 7332 6768 7445 6630 4071 6673  
3660

**December 30<sup>th</sup>**

Station 3 sent in oarallel at 0000/0030/0100/0130z on 8300//15890 and 8300//18040 kHz.

***VC03 - Chinese Air Defense***

5150 kHz, 30-12, 1416 UTC

***MORSE STATIONS***

***M01***

**5320 kHz, 03-12, 1800 UTC**

197 224 224 30 30 = =  
33645 10978 57687 34543 12123 49708 57768 35465 28769 25343  
79898 68798 36455 3420\_ 9789 60989 44657 37658 69876 89900  
45365 66876 49870 49870 30391 47765 47765 28699 58698 50098  
= = 224 224 30 30 000

**4490 kHz, 03-12, 2000 UTC**

197 369 369 30 30 = =  
53676 19366 49309 35543 12322 35506 59367 30903 63977 14432  
46776 13200 57633 39377 59903 57675 24344 59309 55376 19300  
12123 )243540) 23450 55763 50939 73393 36545 39769 10900 63756 39309  
= =369 369 30 30 000

**4490 kHz, 05-12, 2000 UTC**

197 231 231 30 30 = =  
91827 47581 94857 02938 74657 91827 75648 75648 93847 EEEEE 10293  
75648 95867 27384 64546 92837 46574 28394 17283 84756 92837  
84756 29384 47589 74658 19283 04958 18273 47589 19283 74658  
= = 231 231 30 30 0 ..... 0 ..... 0

**5810 kHz, 07-12, 1500 UTC. Errors in red**

197 (also 917, 179, 171, 177, 971) 798 798 30 30 = =  
47394 53204 57194 29435 10573 59367 34037 49536 38574 93079  
17594 53974 53471 90345 43573 47593 69471 594433 59433 63904 57495  
63935 37495 19574 59732 47596 90734 93734 17463 93086 36435  
789 789 30 30 000

**5465 kHz, 08-12, 0700 UTC. Errors in red**

197 (also 971, 179, 171, 717, 719, 919) 182 182 30 30 = =  
47334 58374 59435 17364 16352 34567 13405 27364 16259 37435  
53473 13473 47593 19473 12345 69533 10937 47395 10533 50433  
90735 43375 19574 39533 13574 19534 23475 53403 53694 13574  
= = 182 182 30 30 000

**5320 kHz, 12-12, 1800 UTC. Error in red**

197 876 876 30 30 = =  
12678 34567 34566 98361 47152 78975 23475 19890 89612 32169 57892  
78956 34712 34715 67893 67891 90732 71623 90547 17341 46351  
78901 67381 38956 87452 47569 68451 89047 37418 59037 47391  
= = 876 876 30 30 000

**4490 kHz, 12-12, 2000 UTC. Sent only 27 groups**

197 456 456 30 30 = =  
12345 98584 38472 46398 59847 93847 18352 89795 19483 47384  
57485 39683 17392 10987 57192 46194 58174 49173 59873 49097  
89087 48271 34165 78967 45673 17463 56749  
= = 46 456 30 30 000

**9566 kHz, 14-12, 0715 UTC. Poor signal. I may have missed a group and it may contain errors. One group consisted of only 4-digits**

475 126 126 50 50 = =  
81795 57784 73123 00889 14810 39408 76013 84101 20789 34372  
74869 04981 80093 51704 10045 75733 25824 24416 74446 36452  
16781 81946 80917 15817 74041 23809 41677 00587 29226 92922  
28152 05132 96079 08317 94717 99181 41121 28925 97038 60970  
65996 97217 33644 40823 81787 5282 57255 81022 73449  
= = 126 126 50 50 00000

**5810 kHz, 14-12, 1500 UTC. Sent only 29 groups**

197 839 839 30 30  
82736 47586 19283 48576 19203 09485 18273 48573 19283 74658  
37485 19429 48573 64758 91827 37465 29037 28374 18273 56473  
73849 09283 47583 47589 28374 92837 47563 94857 23647  
839 839 30 30 000

**5465 kHz, 15-12, 0657 UTC. Early start**

197 515 151 30 30  
74653 19283 84758 19283 38012 84765 28374 82734 18293 48571  
83746 18374 95830 48576 10904 73647 19237 45639 19384 01827  
82739 17283 47582 39485 01928 17254 58723 74589 28374 98722  
515 515 30 30 000

**4490 kHz, 17-12, 2000 UTC**

197 719 719 30 30 = =  
54759 16273 82938 74658 26374 82736 94857 01928 87465 82736  
16283 47564 82736 47563 85958 20394 95847 27364 85746 83956  
91823 40593 84759 23049 27364 48572 19203 49583 48576 19203  
= = 719 719 30 30 000

**5320 kHz, 19-12, 1800 UTC. Chaotic callup. Only 26 groups were sent. Other errors in red**

66919 191 11111199919979777 197 117 1 197 1111199 etc. 404 404 30 30 = =  
45393 23093 11933 45036 43573 29384 8456 845056 45932 40390 34935  
9330493 33093 23093 45332 45332 30536 19534 69534 39435 14725 36903  
33669 12093 34926 59343 23096 00954  
= = 404 404 30 30 000

**9566 kHz, 21-12/22-12, 0715 UTC, CW/USB (see picture)**

**21-12: Group 17 consisted of 4 digits: 7884**

**21-12, 0711z: V**

475 195 195 50 50 = =

62203 14061 40545 08965 72438 89446 68986 55235 21659 30682

12703 63430 71598 34917 83570 71598 78845 53468 56331 79659

82391 93120 14775 76300 77589 38089 55706 40646 69887 78978

49349 41363 17328 02470 15926 20468 63273 78044 42868 81330

47887 84206 43681 73771 18855 79492 16946 27782 64482 72560

= = 195 195 50 50 000

**5810 kHz, 21-12, 1500 UTC**

197 345 345 30 30 = =

57493 59174 18538 95723 19604 67193 47105 28153 34578 18452

78452 48163 48105 89073 47152 47381 56804 89653 89016 58472

56471 68451 39063 19058 46381 56382 89045 37182 48264 78953

= = 345 345 30 0 ..... 0 ..... 0

**5465 kHz, 22-12, 0702 UTC**

197 195 195 30 30 = =

46281 48925 47581 69481 27459 89120 89561 47381 47361 68947

87451 67483 56194 76834 29087 58391 59835 98371 89583 66834

89361 67385 19806 37523 89075 37162 47290 76531 47290 34739

= = 195 195 30 30 000

**5320 kHz, 24-12, 1800 UTC**

197 234 234 30 30 = =

56715 34271 78906 37162 57190 67834 09816 47263 17846 45174

67195 71908 67890 46183 67846 69173 23896 47162 89765 34716

78905 67391 47392 67201 67391 67390 78451 84963 68371 78901

= = 234 234 30 30 000

**4490 kHz, 24-12, 2000 UTC**

197 898 898 30 30 = =

76847 17362 87124 63712 68792 48193 58391 68102 59183 19212

89067 17263 78917 47261 71534 68910 46381 58391 79047 26473

67183 89361 48273 90273 37184 87947 38193 56432 12367 67867

= = 898 898 30 30 000

**5320 kHz, 26-12, 1800 UTC**

197 230 230 30 30

14726 36901 45923 10902 48732 40832 33982 49853 12043 50943

90032 69543 60493 39587 20194 58675 59874 38579 58743 39394

50493 28322 49385 29184 47658 22837 45938 48321 49583 90483

230 230 30 30 000

**9566 kHz, 28-12/29-12, 0715 UTC.**

**28-12: Group 19 was not repeated. Group 43 was only 4 digits long: 6235**

475 231 231 50 50 = =

61277 44742 05462 70133 79733 12072 55492 56324 43946 64572

69341 06687 58772 26468 65030 18523 43383 69982 00828 49395

15193 30593 97456 11026 63838 29309 43439 44571 95521 83606

16904 88195 28619 02534 88776 61689 32124 97466 58002 75438

87555 29462 66235 35452 58384 07434 73035 17520 83502 01005

= = 231 231 50 50 000

**5810 kHz, 28-12, 1500 UTC**

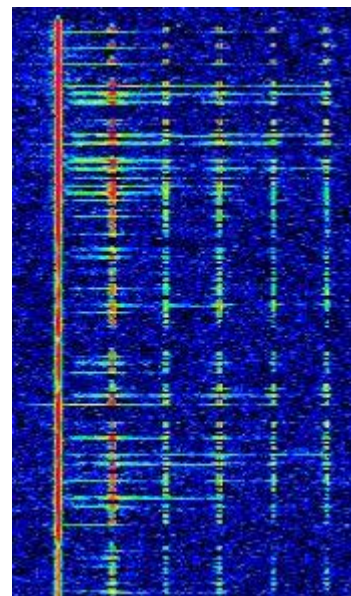
197 190 190 30 30 = =

07898 15243 48898 50978 14325 40698 16543 10980 47658 28879

66978 36455 17650 69870 27645 37765 22098 67787 59800 14232

55768 35465 13243 49869 70989 47566 30987 22664 50980 47687

= = 190 190 30 30 000



**5465 kHz, 29-12, 0700 UTC**

197 202 202 30 30 = =  
44756 19870 79890 47576 33887 69980 48765 61980 69788 36455  
33746 59870 58676 48769 17563 54768 59700 58790 28009 48677  
15344 28798 50980 44766 66980 37645 14232 59870 98609 44098  
= = 202 202 30 (1x) 000

**5320 kHz, 31-12, 1800 UTC. Different repeat in red**

197 456 456 30 30 = =  
64733 57463 36754 97343 **873434** 64753 56753 64753 56743 75634 56743  
65743 65734 25431 54733 21534 65743 65743 37693 43254 34512  
54632 12365 76453 37649 37965 65798 65743 54673 45676 37645  
= = 456 456 30 30 000

**4490 kHz, 31-12, 2000 UTC. Different repeats in red. Only 28 groups were sent.**

197 232 232 30 30 = =  
36475 53723 12343 13375 73642 76336 34735 63754 35734 65343  
54733 27343 27343 56473 56734 54336 65324 **56324** 76533 54932 64332 **54332** 65334 **56334**  
56473 23415 65473 56743 75343 65343 65343 75343  
= = 232 232 30 30 000

**M12**

11519/12194/13407 kHz, 1100/1120/1140 UTC

**11519/12194/13407 kHz, 03-12, 1100/1120/1140 UTC**  
289 289 289 1 9464 59 9464 59  
23260 65341 18953 59329 57244 69719 24067 70500 42785 47683  
65547 01205 59402 61575 52573 48446 79148 81522 59243 06399  
50903 42118 46148 43335 82773 31138 55659 26279 80317 21077  
74382 65223 87279 53385 36207 81765 40886 43010 80880 50906  
13998 65204 71182 68282 51396 72270 29562 34632 71082 33578  
00413 58022 92471 62851 43107 81141 19192 75617 76555 000 000

**11519/12194/13407 kHz, 10-12, 1100/1120/1140 UTC**  
289 289 289 1 9580 55 9580 55  
76365 38354 24833 05105 82947 93533 04257 13380 82194 14809  
10134 49487 31562 16181 46892 58981 38546 19093 29307 02818  
28119 78029 21901 48232 42080 08327 44359 98655 76686 40385  
90441 63534 35031 04506 05858 85922 01438 02130 09839 30603  
95785 80097 76152 60593 73089 64025 17854 73928 92755 21065  
32679 56111 37806 73622 22577 000 000

**11519/12194/13407 kHz, 17-12, 1100/1120/1140 UTC**  
289 289 289 1 7643 62 7643 62  
46440 63422 66156 94574 48386 42674 01781 29107 07324 69436  
76903 56203 80690 96447 19515 24302 31782 43903 50584 69291  
03724 49240 49675 20855 88759 85210 66132 12368 57137 20681  
20555 39607 72455 62888 79986 71974 47113 97232 03287 16647  
27694 74356 75647 04976 01265 68434 42627 15591 93368 85401  
13354 51253 16146 22709 70113 97198 23747 45301 05814 63175  
76540 89413 000 000

**11519/12194/13407 kHz, 24-12, 1100/1120/1140 UTC**  
289 289 289 1 6678 61 6678 61  
65937 44930 12483 70456 46693 02341 01025 61416 34560 65356  
33999 42981 28556 76219 61077 81697 85233 89435 12119 12840  
81555 94798 17613 48581 99156 48911 93621 25438 96493 44844  
53162 87495 94528 02736 13349 43995 40559 01926 75139 38412  
84655 28990 56191 42124 66990 88788 80737 72040 27042 61784  
35666 26341 05127 28972 81572 71137 27317 63900 71299 97781  
08718 000 000

**11519/12194/13407 kHz, 31-12, 1100/1120/1140 UTC**

289 289 289 1 1977 64 1977 64  
55738 32760 80811 45855 44460 61876 06312 27185 72893 73990  
98086 96606 96323 68972 59676 53447 12916 02831 46568 70672  
63623 61911 47813 74762 76098 94258 75144 19445 87786 11956  
81699 61048 56842 15610 23823 82201 03742 49847 29183 45507  
86297 42286 28441 17192 61381 96029 30149 39795 97405 44015  
48905 66237 08473 28236 30760 93826 84946 06048 69756 50200  
86731 86865 39397 60936 000 0000

**6792/5892/5092 kHz, 2000/2020/2040 UTC**

**6792/5892/5092 kHz, 04-12/06-12/11-12/13-12, 2000/2020/2040 UTC**

780 780 780 1 107 135 107 135  
14568 71833 18487 16168 72695 87152 46696 72593 99429 20660  
02432 59521 40850 26139 93203 13778 82115 38315 92182 71603  
00442 40564 28419 41960 80693 25921 47992 81968 24107 86401  
73007 72835 40484 07972 81392 63344 38385 48195 91870 17367  
47224 30323 43719 86446 70240 83346 55419 23776 59657 62783  
21371 56680 31635 10952 44239 45379 32530 31224 24140 53174  
84505 16311 09876 68909 69153 72519 45558 65354 07210 40822  
18712 32470 86377 77353 13968 09824 64467 57930 40174 15473  
28806 29209 31680 58302 11549 37325 10129 75212 46284 76164  
96161 70605 45803 06933 59533 35088 77836 55066 06613 52837  
01643 42078 82110 28652 30605 62168 05324 81880 88627 00825  
90560 46962 64115 84055 70318 98019 60303 74864 81591 69533  
67632 86809 70493 26308 79511 51090 74601 82148 28296 13376  
58583 29201 27419 10739 43633 000 000

**6792/5892/5092 kHz, 25-12/27-12, 2000/2020/2040 UTC**

780 780 780 1 353 98 353 98  
33975 06974 88466 56856 98547 83682 43180 92727 50481 04167  
16801 30522 93986 56373 45170 83587 98934 15805 25050 24325  
44047 61977 95174 95599 35992 18172 62720 67451 16837 08547  
21426 82934 48043 83688 79769 51970 26413 23586 23285 63475  
37703 08711 81360 18765 78959 14154 87813 12590 19270 89681  
25910 15606 65052 13396 67528 24006 23706 92087 71519 81910  
67424 62982 40332 80048 93685 64587 86192 97792 68044 11190  
00890 77730 47524 44791 92483 48380 14658 98327 30281 95198  
42485 10099 60994 30857 54019 84705 14211 75605 09362 96601  
30467 06034 47846 39408 85666 61036 25493 83436 000 000

**11435/10598/9327 kHz, 1800/1820/1840 UTC**

**11435/10598/9327 kHz, 05-12, 1800/1820/1840 UTC**

938 938 938 1 4654 75 4654 75  
12270 38674 28618 26335 94395 68988 93157 42474 16344 54052  
90226 08445 00208 84358 39257 94826 34583 44058 82832 62732  
0452\_ \_\_\_\_2 78359 33309 88907 09439 19633 46385 25182 20532  
91440 19447 28919 38202 93054 38136 64\_31 66909 21633 63385  
72860 59058 27873 11869 82129 21754 30721 35589 55338 81526  
74773 58288 75360 18074 00117 08957 70313 95307 37427 84956  
49355 46771 17291 95810 62610 70779 79525 62005 91302 01120  
\_0095 67672 \_2\_17 \_4943 89871 000 000

**11435/10598/9327 kHz, 19-12, 1800/1820/1840 UTC**

938 938 838 1 5292 79 5292 79  
40215 64044 90254 97597 53933 46255 71154 81116 41871 47346 62404  
38128 83239 78336 21478 07511 15807 80027 66551 66075 79637 30482  
21083 65901 06949 23513 54109 49792 92185 35442 12936 93523 15656  
31754 70389 77801 20045 61766 05744 58076 43093 87748 07033 08545  
43851 32806 84303 54042 67772 19914 57117 18424 28730 46513 68019  
09732 42961 24353 90648 30419 92145 21361 88929 06429 34410 68880

22472 51485 07946 43676 87465 54040 74282 08474 22981 91887 23449  
12537 22049 000 000

5832/6832/7732 kHz, 2200/2220/2240 UTC

**5832/6832/7732 kHz, 06-12/07-12/13-12/14-12, 2200/2220/2240 UTC**

887 887 887 1 1283 98 1283 98  
14990 53118 96542 30574 54093 43098 15032 67697 70702 63253  
17681 61019 10008 37746 74947 56594 48726 63174 07626 36475  
95719 52001 92172 97510 14501 73137 32796 21194 03683 88513  
94959 49230 80204 39080 17379 22813 92947 83965 47746 29539  
35718 28891 21588 68884 14492 59079 26419 39464 08470 77700  
02858 42765 19850 62356 36933 96847 47191 19595 99977 73413  
12587 04699 82624 83155 98955 62255 57106 51161 32651 71981  
65862 84815 08792 37977 07432 97855 05485 85806 56046 02125  
40054 08563 51508 89453 67228 13850 52027 66229 06496 88716  
20451 04753 04243 36763 64776 38932 54512 68614 000 000

**5832/6832/7732 kHz, 27-12/28-12 UTC**

887 887 887 1 646 83 646 83  
34108 49336 74919 64553 93391 23675 44306 75930 34806 10080  
16299 78522 65364 46127 02131 50286 95499 67477 10741 96775  
01202 71981 85783 86726 91964 84149 39484 91613 83500 12835  
99713 40965 58865 56880 79895 49635 99044 34090 26777 75656  
64609 74200 73320 78860 61747 44440 74718 06959 75697 99248  
07548 41266 88946 44987 74989 74142 16127 53400 95741 42317  
26187 46499 83313 67172 81372 74208 71994 63134 77898 50669  
56696 35081 08784 32965 97583 55177 62273 17835 64208 28343  
47719 91739 78731 000 000

**M14**

Pacific schedules

**12211/10243 kHz, 02-12/03-12, 0500/0520 UTC**

952 386 386 55 55 = =  
16986 22437 00346 34798 14728 93365 09762 73986 62521 48139  
45376 74367 43851 91262 40144 27844 28850 01504 03402 33609  
51053 09396 77156 23357 52212 15086 94042 94800 68620 13687  
72868 33173 57376 20350 12706 25405 86022 12226 71444 96670  
34010 29505 39765 23974 79405 02734 46450 06484 69298 98585  
55991 97289 97332 01274 44407  
= = 386 386 55 55 00000

**12211/10243 kHz, 04-12/05-12, 0500/0520 UTC**

952 147 147 30 30 = =  
37224 03803 81853 59759 21734 89861 26888 44446 71949 20843  
11289 63827 05260 16965 77534 12208 77727 56269 79480 52096  
43092 88382 44925 95796 04447 11659 55069 71463 88280 62141  
= = 147 147 30 30  
952 638 638 27 27 = =  
42706 99544 57073 42574 40247 08861 25283 59626 44893 25792  
62307 26233 82016 17705 82559 76733 11182 96749 93383 56420  
75234 34060 10018 14112 56909 11556 58245  
= = 638 638 27 27 00000

**12211/10243 kHz, 06-12, 0500/0520 UTC**

952 952 952 00000



**12211/10243 kHz, 09-12/10-12, 0500/0520 UTC**

952 741 741 53 53 = =  
67129 09336 20872 18101 12165 97983 09101 22363 39979 24153  
48387 25743 15346 11985 35781 70204 06660 71289 34570 18353  
32574 00520 32890 65240 15810 19527 51266 94810 57097 18043  
28760 29401 78453 30819 42423 45752 95984 75364 39740 55962  
18585 13220 88738 76810 88339 20702 75473 35910 05003 80062  
03556 88104 01754  
= = 741 741 53 53 00000

**12211/10243 kHz, 11-12/12-12, 0500/0520 UTC**

**12211 kHz, 12-12, 0454 UTC. Fast beeps (1m6s)**

952 148 148 26 26 = =  
05132 53975 03545 85604 29197 49778 71573 28914 52111 48816  
52268 75832 83490 87615 45521 87110 08616 75170 84267 42256  
74117 65130 14176 31688 17520 47226  
= = 148 148 26 26  
952 306 306 26 26 = =  
64054 55663 84247 09871 26520 52555 22302 21926 64772 78915  
55674 27015 33199 95230 04544 89769 48679 29527 02186 17273  
25127 18825 45974 32787 35859 89740  
= = 306 306 26 26 00000

**12211/10243 kHz, 13-12, 0500/0520 UTC**

Unreadable 19 min msg. Inverted Morse

**12211 kHz, 16-12, 0500 UTC. No transmission**

**10243 kHz, 16-12, 0520 UTC**

**12211 kHz, 17-12, 0500 UTC**

**10243 kHz, 17-12, 0520 UTC. 952 (R4min) off**

952 703 703 56 56 = =  
95530 88831 82464 55048 08950 02709 64579 23313 08929 46974  
63119 78942 85989 48231 56101 11993 65285 81634 41240 95780  
12112 42193 11237 57073 51578 86882 83070 16286 38382 27239  
79730 89893 37605 77130 87833 72253 02497 85397 39506 38956  
60159 08033 92164 39018 41083 99609 04288 67977 13465 28633  
30964 39159 08254 46498 87459 95260  
= = 703 703 56 56 00000

**12211/10243 kHz, 18-12, 0500/0520 UTC**

952 731 731 20 20 = =  
59903 84727 51896 00840 25449 44852 33143 03456 86744 23949  
49429 77487 62766 47732 58510 32580 81111 26044 43835 32250  
= = 731 731 20 20  
952 846 846 31 31 = =  
96309 90792 87214 01593 20972 11125 32081 32485 60878 01043  
49522 38551 83462 64976 72995 18596 15345 73997 22682 72622  
27023 08004 10143 93862 36791 94084 23936 65605 38590 64529  
13370  
= = 846 846 31 31 00000

**12211/10243 kHz, 19-12, 0500/0520 UTC**

**Same message as yesterday but in reverse order**

952 846 846 31 31 = =  
96309 90792 87214 01593 20972 11125 32081 32485 60878 01043  
49522 38551 83462 64976 72995 18596 15345 73997 22682 72622  
27023 08004 10143 93862 36791 94084 23936 65605 38590 64529  
13370  
= = 846 846 31 31  
952 731 731 20 20 = =  
59903 84727 51896 00840 25449 44852 33143 03456 86744 23949  
49429 77487 62766 47732 58510 32580 81111 26044 43835 32250  
= = 731 731 20 20 00000

**12211 kHz, 20-12, 0454 UTC. Two series of fast beeps**

**12211/10243 kHz, 20-12, 0500/0520 UTC**

952 952 952 00000

**12211/10243 kHz, 23-12/24-12, 0500/0520 UTC**

952 648 648 51 51 = =

05070 24388 52924 87585 07055 91474 55324 40170 01700 67360  
68265 73511 16957 13262 80131 16032 02436 89704 30932 29665  
52250 64502 20936 96786 58431 73561 83469 27949 68341 01717  
57809 70099 44530 75761 23514 19982 50475 86880 79325 72394  
10630 84660 85978 58000 18232 09875 94865 50380 89299 58222  
37476

= = 648 648 51 51 00000

**12211/10243 kHz, 25-12, 0500/0520 UTC. Not monitored**

**12211 kHz, 26-12, 0450 UTC. Series of fast beeps**

**12211/10243 kHz, 26-12, 0500/0520 UTC**

952 713 713 20 20 = =

82850 84336 51445 91857 75609 14548 93869 57211 50471 39005  
15238 01148 64130 19669 92802 22211 45707 59152 99665 61086  
713 713 20 20

952 713 713 20 20 = =

82850 84336 51445 91857 75609 14548 93869 57211 50471 39005  
15238 01148 64130 19669 92802 22211 45707 59152 99665 61086  
713 713 20 20 (no closing nulls)

**12211/10243 kHz, 27-12, 0500/0520 UTC**

952 952 952 00000. Inverted morse

**No transmissions on 30 and 31 December**

Test transmission

**11073 kHz, 14-12, 1438 UTC** Two series of fast beeps

**11073 kHz, 14-12, 1450 UTC** Partly unreadable

352 (R4m) 187 187 46 46 = =

12707 \_\_\_\_\_

26619 68351 97448 26883[15s silence] 155 9

352 (R40s) 3 [2s silence]

352 (R1m)

26619 68351 97448 26883 27616 93155 25552 12704 07749 71508

18551 47849 54055 55076 92181 72994 54862 85179 26460 30273

06154 43370 38829 82358 49404 06826 0 [34s silence]

352 (R50s) 3 [3s silence]

352 (R1m)

65264 65296 38829 82358 49404 06826 06012 92820 58734 59956

10997 49071 69946 32533 89951 91686

= = 187 187 46 46 00000

**Recomposed message (partly unreadable)**

352 187 187 46 46

12707 \_\_\_\_\_

26619 68351 97448 26883 27616 93155 25552 12704 07749 71508

18551 47849 54055 55076 92181 72994 54862 85179 26460 30273

06154 43370 38829 82358 49404 06826 06012 92820 58734 59956

10997 49071 69946 32533 89951 91686

= = 187 187 46 46 00000

## Test transmissions

**11073 kHz, 11-12, 0649 UTC** Two series of fast beeps

**11073 kHz, 11-12, 0700 UTC**

352 79542 (R3m30s)

35 [29s silence]

2 352 79542 (R1m40s) 897 40 40 = =

71585 76481 76005 41271 92838 37061 16009 54436 62601 [36s silence] 79329 [29s silence]

352 (R55s)

41271 92838 37061 16009 54430 62601 96480 20714 88943 55782

79329 63336 37205 38152 38034 23852 63338 29465 12200 54473

74277 67768 9391 [27s silence] 345 3334 [6s silence]

352 (R1m)

29465 12200 54473 74277 67768 93919 74904 39815 33345 16211

83326 91250 59711 06802 94029 53339 12136 70422 37659 89239

= = 897 897 40 40 00000

**Recomposed message**

352 79542 897 897 40 40 = =

71585 76481 76005 41271 92838 37061 16009 54430 62601 96480

20714 88943 55782 79329 63336 37205 38152 38034 23852 63338

29465 12200 54473 74277 67768 93919 74904 39815 33345 16211

83326 91250 59711 06802 94029 53339 12136 70422 37659 89239

= = 897 897 40 40 00000

**9463 kHz, 13-12, 1126 UTC** Two series of fast beeps

**9463 kHz, 13-12, 1140 UTC** 801 801 801 12457 (R4m) 00000

**10755 kHz, 13-12, 1318 UTC** Two series of fast beeps

**10755 kHz, 13-12, 1322 UTC** Two series of fast beeps

**10755 kHz, 13-12, 1336 UTC** 975 975 975 87945 (R4m) 00000

**9463 kHz, 16-12, 0956 UTC, i.p.**

801 (R) 376 376 52 52 = =

54044 66001 29014 79774 34857 55542 04786 02406 83949 66146

10766 33315 24698 06661 26018 17021 00668 74774 13285 13692

19995 22666 65949 27725 67048 59070 37135 46978 67318 17460

99366 34824 16458 45034 08233 42234 09435 92183 68496 32061

30

801 (R47s)

06661 26018 17021 00668 74774 13285 13692 19995 22666 65949

27725 67048 59070 37135 46978 67318 17460 99366 34824 16458

45034 08233 42234 09435 92183 68496 32061 30703 07140 26081

32722 91363 65487 34369 63456 24217 89223 68264 98364

= = 736 736 52 52 000

**Recomposed message**

801 376 376 52 52 = =

54044 66001 29014 79774 34857 55542 04786 02406 83949 66146

10766 33315 24698 06661 26018 17021 00668 74774 13285 13692

19995 22666 65949 27725 67048 59070 37135 46978 67318 17460

99366 34824 16458 45034 08233 42234 09435 92183 68496 32061

30703 07140 26081 32722 91363 65487 34369 63456 24217 89223

68264 98364

= = 736 736 52 52 000

**9463 kHz, 16-12, 0708 UTC** Two series of fast beeps

**9463 kHz, 16-12, 0841 UTC** 801 (R)

**10755 kHz, 16-12, 1400 UTC. Partly unreadable**

975 (R) 248 248 3T 30 = =  
25683 93\_76 54384 31973 8\_938 93167 7908 37416 78156 43790  
86239 17954 39228 1089x \_\_\_\_\_ 19585 \_\_\_\_\_ 10332 54454 85592  
55359 06818 63494 00\_66 55235 \_\_\_\_\_  
975 (R)  
85592 55359 06818 63494 00\_66 55235 495\_6 223\_9 65500 775\_8  
39\_00  
= = 248 248 30 30 00000

**Recomposed message**

975 248 248 30 30 = =  
25683 93\_76 54384 31973 8\_938 93167 7908 37416 78156 43790  
86239 17954 39228 1089\_ \_\_\_\_\_ 19585 \_\_\_\_\_ 10332 54454 85592  
55359 06818 63494 00\_66 55235 495\_6 223\_9 65500 775\_8 39\_00  
= = 248 248 30 30 00000

**11073 kHz, 19-12, 0928 UTC, FSK 1000Hz** Fast reversals

**11073 kHz, 19-12, 0929 UTC, CW** Fast beeps

**11073 kHz, 19-12, 0940 UTC**

352 46879 (R4m) 976 976 40 40 = =  
57493 [22s silence] 45 [4s silence]  
352 (R1m05s)  
57493 57013 77515 12545 65249 16382 34247 80312 47963 66048  
46552 79180 16428 16001 19522 85365 80506 34480 63970 75961  
15781 24955 00042 40726 91228 08265 86695 23261 43875 39631  
25510 33773 11358 [1s silence]  
352 (R45s) 352 [2s silence] 352 3 [15s silence] 2 352 (R1m)  
86695 23261 43875 39631 25510 33773 11358 58333 47950 34551  
52744  
= = 976 976 40 40 00000

**Recomposed message**

352 46879 976 976 40 40 = =  
57493 57013 77515 12545 65249 16382 34247 80312 47963 66048  
46552 79180 16428 16001 19522 85365 80506 34480 63970 75961  
15781 24955 00042 40726 91228 08265 86695 23261 43875 39631  
25510 33773 11358 15223 12237 00610 58333 47950 34551 52744  
= = 976 976 40 40 00000

**9463 kHz, 19-12, 1357 UTC** Two series of fast beeps

**9463 kHz, 19-12, 1400 UTC**

801 42357 (R3m20s)  
801 801 801 423 [19s silence]  
1 801 42357 801 42357 (R1m) 654 654 32 32 = =  
19093 68151 74534 57323 77810 98828 51154 45558 89496 33929  
30617 65706 19535 06308 81858 60758 494  
801 (R50s) 8 [1s silence] 801 (R1m)  
33929 30617 65706 19535 06308 81851 60758 49462 31530 97140  
39166 32257 03085 61845 92562 24687 72841 50537 44824 76383  
15211 41486 93422  
= 654 654 32 32 00000

**Recomposed message**

801 42357 654 654 32 32 = =  
19093 68151 74534 57323 77810 98828 51154 45558 89496 33929  
30617 65706 19535 06308 81858 60758 49462 31530 97140 39166  
32257 03085 61845 92562 24687 72841 50537 44824 76383 15211  
41486 93422  
= 654 654 32 32 00000

The following transmission had badly suppressed carrier remnants. In addition to the 800Hz fundamental, at least a 2400Hz harmonic was noted. The transmission started with a test carrier and test tones at 1622 and 1628 UTC.

**10755 kHz, 23-12, 1631 UTC** Ttwo series of fast beeps

**10755 kHz, 23-12, 1637 UTC** Carrier, overlapping with new, separate 10754.9 kHz carrier at the end

**10755 kHz, 23-12, 1640 UTC** 800Hz fundamental, test tones then fast beeps

**10755 kHz, 23-12, 1645 UTC**

975 34681 (R4m) 418 418 32 32 = =

10466 72380 12741 09921 04858 10494 47260 68194 54198 95004

98614 67686 58915 23153 03464 19019 83722 51481 84440 09939

15274 27886 29146 94052 74610 97591 38779 27715 70330 12740

94823 97240

= = 418 418 32 32 00000

## UM05

This station doesn't send accented letters. These letters are either omitted or the letters are sent without a punctuation mark.

Not heard after December 3<sup>rd</sup> on any of the known frequencies: 3961.8, 5344.2, 5345.8, 7245.8, 10380.8 kHz

7542.8 kHz, 01-12, 0800 UTC

Courir (R), B (R), Depart (R), W (R), E (R), etc.

7542.8 kHz, 02-12, 1226 UTC

Vallee (R), Crepuscule (R), Nuit (R), Juillet (R), Banane (R), Deddin (R), etc.

7542.8 kHz, 03-12, 0757 UTC

Exploration (R), Collite (R), Acide (R), M (R), Monter (R), etc.

## UM04 - PROMRCh

Not monitored on 2, 6, 7, 8, 14, 16, 19, 21, 25, 26 December.

**4735 kHz, 01-12, 0800 UTC**

VVV VVV PROMRCh = 0212 =

1000 1110 1160 1360 1930

1200 1210 1260 1440 2000

1400 1200 1250 1420 1950

1600 1190 1230 1410 1990

1800 0770 0800 0910 1240

2000 0510 0530 0610 0850

2200 0390 0400 0460 0610

0000 0420 0430 0470 0620

0200 0440 0450 0500 0660

0400 0440 0450 0510 0670

0600 0380 0390 0450 0620

0800 0800 0850 1020 1490

= ABV

VVV VVV PROMRCh = 0212 =

1000 1110 1160 1360 1930

1200 1210 1260 1440 2000

1400 1200 1250 1420 1950

1600 1190 1230 1410 1990

1800 0770 0800 0910 1240

2000 0510 0530 0610 0850

2200 0390 0400 0460 0610

0000 0420 0430 0470 0620

0200 0440 0450 0500 0660

0400 0440 0450 0510 0670

0600 0380 0390 0450 0620

0800 0800 0850 1020 1490

0800 0 off

**4735 kHz, 02-12, 0800 UTC**

VVV VVV PROMRCh = 02 12 =

1000 1120 1170 1360 1930

1200 1210 1260 1440 2010

1400 1200 1250 1410 1950

1600 1180 1240 1420 1990

J800 0770 0800 0910 1240

2000 0510 0530 0610 0850

2200 0390 0430 0450 0610

0000 0420 0430 0470 0610

0200 0440 0450 0500 0660

0400 0440 0450 0500 0670

0600 0380 0390 0450 0620

0800 0800 0850 1020 1480

= ABV

VVV VVV PROMRCh = 02 12 =

1000 1120 1170 1360 1930

1200 1210 1260 1440 2010

1400 1200 1250 1410 1950

1600 1180 1240 1420 1990

J800 0770 0800 0910 1240

2000 0510 0530 0610 0850

2200 0390 0430 0450 0610

0000 0420 0430 0470 0610

0200 0440 0450 0500 0660

0400 0440 0450 0500 0670

0600 0380 0390 0450 0620

0800 0800 0850 1020 1480

= AR

**4735 kHz, 03-12, 0800 UTC**

VVV VVV PROMRCh = 0312 =

1000 1120 1170 1360 1930

1200 1210 1260 1440 2010

1400 1200 1250 1410 1950

1600 1180 1240 1410 1980

1800 0770 0800 0910 1250

2000 0510 0530 0610 0840

2200 0390 0400 0450 0610

0000 0410 0420 0470 0610

0200 0440 0450 0500 0660

0400 0440 0450 0510 0660

0600 0380 0400 0450 0630

0800 0800 0850 1010 1480

= ABV

VVV VVV PROMRCh = 0312 =

1000 1120 1170 1360 1930

1200 1210 1260 1440 2010

1400 1200 1250 1410 1950

1600 1180 1240 1410 1980

1800 0770 0800 0910 1250

2000 0510 0530 0610 0840

2200 0390 0400 0450 0610

0000 0410 0420 0470 0610

0200 0440 0450 0500 0660

0400 0440 0450 0510 0660

0600 0380 0400 0450 0630

0800 0800 0850 1010 1480

= AR

**4735 kHz, 04-12, 0800 UTC**

VVV VVV PROMRCh = 04 12 =

1000 1120 1170 1360 1940

1200 1210 1260 1440 2000

1400 1200 1240 1410 1940

1600 1180 1240 1410 1980

1800 0780 0810 0910 1250

2000 0500 0520 0600 0840

2200 0390 0400 0450 0600

0000 0410 0420 0470 0610

0200 0440 0450 0500 0660

0400 0440 0450 0510 0670

0600 0380 0400 0450 0630

0800 0790 0840 1000 1470

= ABV

VVV VVV PROMRCh = 04 12 =

1000 1120 1170 1360 1940

1200 1210 1260 1440 2000

1400 1200 1240 1410 1940

1600 1180 1240 1410 1980

1800 0780 0810 0910 1250

2000 0500 0520 0600 0840

2200 0390 0400 0450 0600

0000 0410 0420 0470 0610

0200 0440 0450 0500 0660

0400 0440 0450 0510 0670

0600 0380 0400 0450 0630

0800 0790 0840 1000 1470

= AR



**4735 kHz, 13-12, 0801 UTC**

VVV VVV PROMRCh = 13 12 =  
 1000 1120 1180 1370 1960  
 1200 1220 1270 1450 2020  
 1400 1190 1240 1410 1940  
 1600 1180 1230 1400 1960  
 1800 0800 0830 0940 1290  
 2000 0490 0510 0590 0820  
 2200 0380 0390 0440 0600  
 0000 0410 0420 0460 0600  
 0200 0430 0440 0490 0640  
 0400 0440 0450 0510 0660  
 0600 0400 0420 0480 0650  
 0800 0750 0790 0950 1380  
 = ABV

VVV VVV PROMRCh = 13 12 =  
 1000 1120 1180 1370 1960  
 1200 1220 1270 1450 2020  
 1400 1190 1240 1410 1940  
 1600 1180 1230 1400 1960  
 1800 0800 0830 0940 1290  
 2000 0490 0510 0590 0820  
 2200 0380 0390 0440 0600  
 0000 0410 0420 0460 0600  
 0200 0430 0440 0490 0640  
 0400 0440 0450 0510 0660  
 0600 0400 0420 0480 0650  
 0800 0750 0790 0950 1380  
 = AR

**4735 kHz, 17-12, 0759 UTC**

VVV VVV PROMRCh = 17 12 =  
 1000 1090 1140 1330 1920  
 1200 1180 1240 1420 1990  
 1400 1170 1210 1380 1900  
 1600 1140 1190 1370 1910  
 1800 0760 0800 0900 1250  
 2000 0470 0490 0570 0800  
 2200 0380 0390 0440 0590  
 0000 0400 0410 0450 0600  
 0200 0420 0430 0480 0630  
 0400 0440 0450 0500 0660  
 0600 0400 0420 0480 0650  
 0800 0720 0760 0910 1330  
 = ABV

VVV VVV PROMRCh = 17 12 =  
 1000 1090 1140 1330 1920  
 1200 1180 1240 1420 1990  
 1400 1170 1210 1380 1900  
 1600 1140 1190 1370 1910  
 1800 0760 0800 0900 1250  
 2000 0470 0490 0570 0800  
 2200 0380 0390 0440 0590  
 0000 0400 0410 0450 0600  
 0200 0420 0430 0480 0630  
 0400 0440 0450 0500 0660  
 0600 0400 0420 0480 0650  
 0800 0720 0760 0910 1330  
 = AR

**4735 kHz, 14-12, 0800 UTC**

VVV VVV PROMRCh = 1412 =  
 1000 1110 1170 1360 1950  
 1200 1210 1260 1440 2020  
 1400 1190 1230 1390 1930  
 1600 1170 1220 1400 1950  
 1800 0790 0820 0930 1280  
 2000 0490 0510 0590 0820  
 2200 0380 0390 0440 0590  
 0000 0400 0410 0460 0600  
 0200 0430 0440 0490 0640  
 0400 0440 0450 0510 0660  
 0600 0410 0420 0480 0650  
 0800 0740 0790 0940 1370  
 = ABV

VVV VVV PROMRCh = 1412 =  
 1000 1110 1170 1360 1950  
 1200 1210 1260 1440 2020  
 1400 1190 1230 1390 1930  
 1600 1170 1220 1400 1950  
 1800 0790 0820 0930 1280  
 2000 0490 0510 0590 0820  
 2200 0380 0390 0440 0590  
 0000 0400 0410 0460 0600  
 0200 0430 0440 0490 0640  
 0400 0440 0450 0510 0660  
 0600 0410 0420 0480 0650  
 0800 0740 0790 0940 1370  
 = AR

**4735 kHz, 18-12, 0800 UTC**

VVV VVV PROMRCh = 18 12 =  
 1000 1080 1140 1330 1910  
 1200 1180 1230 1410 1990  
 1400 1160 1200 1360 1900  
 1600 1130 1180 1360 1900  
 1800 0760 0790 0900 1240  
 2000 0470 0490 0570 0790  
 2200 0380 0390 0440 0580  
 0000 0400 0410 0450 0600  
 0200 0420 0430 0480 0630  
 0400 0440 0450 0500 0660  
 0600 0400 0420 0480 0650  
 0800 0710 0750 0900 1310  
 = ABV

VVV VVV PROMRCh = 18 12 =  
 1000 1080 1140 1330 1910  
 1200 1180 1230 1410 1990  
 1400 1160 1200 1360 1900  
 1600 1130 1180 1360 1900  
 1800 0760 0790 0900 1240  
 2000 0470 0490 0570 0790  
 2200 0380 0390 0440 0580  
 0000 0400 0410 0450 0600  
 0200 0420 0430 0480 0630  
 0400 0440 0450 0500 0660  
 0600 0400 0420 0480 0650  
 0800 0710 0750 0900 1310  
 = AR

**4735 kHz, 15-12, 0800 UTC**

VVV VVV PRONRCh = 15 12 =  
 1000 1080 1140 1330 1910  
 1200 1190 1240 1420 1990  
 1400 1170 1210 1380 1910  
 1600 1150 1200 1380 1920  
 1800 0770 0800 0910 1260  
 2000 0480 0500 0580 0810  
 2200 0380 0390 0440 0590  
 0000 0400 0410 0460 0600  
 0200 0430 0440 0490 0640  
 0400 0440 0450 0500 0660  
 0600 0410 0420 0480 0650  
 0800 0730 0780 0930 1350  
 = ABV

VVV VVV PRONRCh = 15 12 =  
 1000 1080 1140 1330 1910  
 1200 1190 1240 1420 1990  
 1400 1170 1210 1380 1910  
 1600 1150 1200 1380 1920  
 1800 0770 0800 0910 1260  
 2000 0480 0500 0580 0810  
 2200 0380 0390 0440 0590  
 0000 0400 0410 0460 0600  
 0200 0430 0440 0490 0640  
 0400 0440 0450 0500 0660  
 0600 0410 0420 0480 0650  
 0800 0730 0780 0930 1350  
 = AR

**4735 kHz, 19-12, 0800 UTC**

VVV VVV PROMRCh = 19 12 =  
 1000 1090 1150 1340 1910  
 1200 1180 0230 1420 1990  
 1400 1160 1200 1370 1890  
 1600 1130 1170 1350 1890  
 1800 0760 0790 0900 1250  
 2000 0480 0500 0570 0800  
 2200 0380 0390 0440 0590  
 0000 0400 0410 0460 0600  
 0200 0420 0430 0480 0630  
 0400 0440 0450 0500 0660  
 0600 0410 0420 0480 0650  
 0800 0700 0740 0890 1300  
 = ABV

VVV VVV PROMRCh = 19 12 =  
 1000 1090 1150 1340 1910  
 1200 1180 0230 1420 1990  
 1400 1160 1200 1370 1890  
 1600 1130 1170 1350 1890  
 1800 0760 0790 0900 1250  
 2000 0480 0500 0570 0800  
 2200 0380 0390 0440 0590  
 0000 0400 0410 0460 0600  
 0200 0420 0430 0480 0630  
 0400 0440 0450 0500 0660  
 0600 0410 0420 0480 0650  
 0800 0700 0740 0890 1300  
 = AR

**4735 kHz, 16-12, 0800 UTC**

VVV VVV PROMRCh = 16 12 =  
 1000 1090 1150 1340 1920  
 1200 1200 1250 1430 2010  
 1400 1170 1220 1380 1910  
 1600 1150 1200 1380 1920  
 1800 0770 0800 0910 1260  
 2000 0480 0500 0570 0800  
 2200 0380 0390 0440 0590  
 0000 0400 0410 0460 0600  
 0200 0430 0440 0490 0640  
 0400 0440 0450 0500 0660  
 0600 0410 0420 0480 0650  
 0800 0730 0770 0920 1340  
 = ABV

VVV VVV PROMRCh = 16 12 =  
 1000 1090 1150 1340 1920  
 1200 1200 1250 1430 2010  
 1400 1170 1220 1380 1910  
 1600 1150 1200 1380 1920  
 1800 0770 0800 0910 1260  
 2000 0480 0500 0570 0800  
 2200 0380 0390 0440 0590  
 0000 0400 0410 0460 0600  
 0200 0430 0440 0490 0640  
 0400 0440 0450 0500 0660  
 0600 0410 0420 0480 0650  
 0800 0730 0770 0920 1340  
 = AR

**4735 kHz, 20-12, 0801 UTC**

VVV VVV PROMRCh = 20 12 =  
 1000 1080 1130 1330 1910  
 1200 1170 1220 1400 1980  
 1400 1140 1190 1350 1880  
 1600 1110 1160 1330 1880  
 1800 0750 0780 0890 1240  
 2000 0470 0490 0570 0790  
 2200 0380 0390 0440 0590  
 0000 0400 0410 0460 0600  
 0200 0420 0430 0480 0620  
 0400 0440 0450 0500 0660  
 0600 0410 0420 0480 0650  
 0800 0690 0740 0880 1280  
 = ABV

VVV VVV PROMRCh = 20 12 =  
 1000 1080 1130 1330 1910  
 1200 1170 1220 1400 1980  
 1400 1140 1190 1350 1880  
 1600 1110 1160 1330 1880  
 1800 0750 0780 0890 1240  
 2000 0470 0490 0570 0790  
 2200 0380 0390 0440 0590  
 0000 0400 0410 0460 0600  
 0200 0420 0430 0480 0620  
 0400 0440 0450 0500 0660  
 0600 0410 0420 0480 0650  
 0800 0690 0740 0880 1280  
 = AR





**4735 kHz, 29-12, 0800 UTC**  
 VVV VVV PROMRCh = 29 12 =  
 1000 1060 1120 1310 1890  
 1200 1110 1160 1350 1920  
 1400 1100 1150 1320 1840  
 1600 1050 1100 1280 1820  
 1800 0700 0730 0830 1560  
 2000 0440 0450 0530 0740  
 2200 0370 0380 0420 0570  
 0000 0390 0400 0440 0590  
 0200 0400 0410 0460 0610  
 0400 0420 0490 0480 0650  
 0600 0390 0410 0470 0640  
 0800 0650 0700 0840 1230  
 = ABV  
 VVV VVV PROMRCh = 29 12 =  
 1000 1060 1120 1310 1890  
 1200 1110 1160 1350 1920  
 1400 1100 1150 1320 1840  
 1600 1050 1100 1280 1820  
 1800 0700 0730 0830 1560  
 2000 0440 0450 0530 0740  
 2200 0370 0380 0420 0570  
 0000 0390 0400 0440 0590  
 0200 0400 0410 0460 0610  
 0400 0420 0490 0480 0650  
 0600 0390 0410 0470 0640  
 0800 0650 0700 0840 1230  
 = AR

**4735 kHz, 30-12, 0807 UTC. Error in red**  
 VVV VVV PROMRCh = 30 12 =  
 1000 1060 1110 1310 1890  
 1200 1110 1170 1350 1930  
 1400 1100 1150 1320 1850  
 1600 1050 1110 1280 1820  
 1800 0700 0730 0830 1170  
 2000 0430 0450 0520 0740  
 2200 0360 0370 0420 0560  
 0000 0390 0400 0440 0590  
 0200 0400 0410 0460 0610  
 0400 0420 0430 **0480** 0650  
 0600 0390 0410 0460 0640  
 0800 0650 0700 0830 1220  
 = ABV  
 VVV VVV PROMRCh = 30 12 =  
 1000 1060 1110 1310 1890  
 1200 1110 1170 1350 1930  
 1400 1100 1150 1320 1850  
 1600 1050 1110 1280 1820  
 1800 0700 0730 0830 1170  
 2000 0430 0450 0520 0740  
 2200 0360 0370 0420 0560  
 0000 0390 0400 0440 0590  
 0200 0400 0410 0460 0610  
 0400 0420 0430 **0480** 0650  
 0600 0390 0410 0460 0640  
 0800 0650 0700 0830 1220  
 = AR

**4735 kHz, 31-12, 0800 UTC**  
 VVV VVV PROMRCh = 31 12 =  
 1000 1060 1120 1310 1880  
 1200 1120 1170 1360 1920  
 1400 1110 1150 1320 1840  
 1600 1070 1110 1290 1830  
 1800 0710 0740 0840 1170  
 2000 0430 0450 0520 0730  
 2200 0360 0370 0420 0560  
 0000 0390 0400 0440 0590  
 0200 0400 0410 0460 0610  
 0400 0420 0430 0480 0640  
 0600 0390 0410 0460 0640  
 0800 0650 0700 0830 1220  
 = ABV  
 VVV VVV PROMRCh = 31 12 =  
 1000 1060 1120 1310 1880  
 1200 1120 1170 1360 1920  
 1400 1110 1150 1320 1840  
 1600 1070 1110 1290 1830  
 1800 0710 0740 0840 1170  
 2000 0430 0450 0520 0730  
 2200 0360 0370 0420 0560  
 0000 0390 0400 0440 0590  
 0200 0400 0410 0460 0610  
 0400 0420 0430 0480 0640  
 0600 0390 0410 0460 0640  
 0800 0650 0700 0830 1220  
 = AR

## DIGITAL MODES

### F01

**5089/7337/9481 kHz, 19-12, 1620/1630/1640 UTC**  
 94018 49438 88309 89844 29755 43522 86822 37777 65396 57739  
 72887 46478 61340 73571 81729 24160 70696 11630 34288 23723  
 90417 25667 50094 22979 20880 31825 61293 93911 71263 39603  
 73755 62428 59358 39251 87135 62674 86991 50022 99152 38331  
 45245 90772 16975 62599 18605 29221 76322 99023 44889 16417  
 12002 55770 16309 33827 95091 36666 63976 47520 86024 61253  
 76772 63160 13928 53763 82095 38429 83853 73997 45404 78786  
 26597 54010 98007 92920 43033 32896 99337 45036 78666 68864  
 75730 95867 53955 49843 91476 78421 58249 31582 24766 98106  
 74108 53195 71959 38105 88600 40745 54703 32610 28753 37623  
 65644 51650 26960 20317 22607 59544 86047 78444 48318 84977  
 46866 39416 33226 68448 34441 25238 83214 22547 89347 26410  
 84507 17452 15252 62156 27621 34006 89779 83265 75656 73945  
 85973 19348 23490 62021 17823 16990 30465 56142 91967 67331  
 85558 15193 25780 30432 98995 22546 15405 97053 17232 10416  
 69389 28037 26313 49169 91969 45909 65248 67942 55257 78738  
 19964 63080 85729 40429 67697 97761 84780 72890 13542 84780  
 93323 97327 93103 84381 76688 59725 26396 93001 98894 17699  
 74970 34804 72947 32913 80061 41686 42877 33142 17416 73307  
 32365 75113 61068 38004 64610 81926 21328 57148 69253 55091  
 43635 94768 53451 10323 44494 69848 93324 33389 77547 58295  
 58193 40495 81208 28255 72182 14086 51398 79598 77393 73764  
 44711 28462 70910 72715 83072 42837 84043 30221 78475 75313  
 35726 63244 18764 36049 97738 78612 19374 21127 46160 67669  
 69321 76655 38877 87576 38837 42964 28975 10357 92739 43147  
 51250 00000 +++++ +++++ +++++

**Note:**

These transmissions audibly featured that weird intro again, I was able to decode it this time: it's a block #0. Unlike F06, F01 doesn't normally have a block #0, it starts at block #1. Raw decode: "=8740 46464646464646481 " which is just a block #0 with 46464 64646 46464 as payload. Obviously it's not meant to be part of the message proper. The transmission starts with that block #0 repeated three times, and then it doesn't appear anymore after that, the transmission just loops from the last block back to block #1 as usual. Weird but interesting. (PY)

Pacific schedules

The third, 0250z F01 slot was often late or missing due to TX issues. On some days there were apparently clock shift issues, with all transmissions starting late. (PY)

- 13370 kHz, 02-12, 0230 UTC**
- 11538 kHz, 02-12, 0241 UTC TX issues**
- 10614 kHz, 02-12, 0250 UTC No transmission. TX issues**
- 13370 kHz, 03-12, 0230 UTC**
- 11538 kHz, 03-12, 0241 UTC TX issues**
- 10614 kHz, 03-12, 0250 UTC**

88826 49852 46586 77269 35714 27794 86137 85866 40996 06225  
41028 87181 47800 70968 66326 61317 55439 87614 10077 23963  
54678 46585 82362 90450 41765 02037 93604 86003 63416 65564  
66785 25614 09957 40615 53292 11984 98778 08564 07050 24973  
55331 02392 96653 00988 03812 28898 60170 25750 24749 25379  
32305 88876 21678 61726 98621 73720 64074 23865 56492 80898  
98748 39481 87487 08952 46889 31968 70862 40564 28932 13543  
92858 07798 84452 53443 31487 34756 79263 82175 21483 81138  
16911 17731 29137 35101 56741 24704 91660 28876 85757 42271  
00804 75584 96411 41943 35393 50672 87550 01049 72476 66417  
30702 02876 31784 12943 08865 99405 33162 64199 40014 97587  
71688 72101 42506 55089 40157 98074 84553 96443 53605 54058  
84977 85562 55578 52762 57417 15517 10832 89922 15181 01555  
14129 07012 78930 88268 65858 08071 54385 06869 22125 28929  
72232 43481 40021 82317 07434 04433 87767 27257 20111 89433  
34395 36439 85206 08610 82669 59198 03092 04332 21946 04914  
08332 63747 34626 93877 18770 32992 10927 49909 92144 68984  
51635 32863 82399 89765 63530 34528 12900 09306 77180 86329  
08725 67722 41781 52299 55232 92847 76743 05721 75074 54078  
84690 12919 40868 94450 55585 72608 65688 51875 16648 84245  
38586 05467 07766 43820 97309 07913 87076 90536 55426 89811  
96485 52798 26018 46524 41329 66949 09154 46269 65276 67218  
31220 00000 00000 00000 00000 00000 00000 00000 00000 00000

12266 15313 70965 63362 81889 00453 26905 32447 64464 60660  
20076 23707 71516 68344 13862 35771 79065 99940 29679 46893  
09214 95138 86841 33012 13500 45884 91346 30436 80093 01112  
03278 91607 06328 98136 37504 07354 03741 56642 77372 94091  
27834 96855 06073 69410 49720 63268 85369 64459 11855 78599  
36376 46608 35039 40991 02079 50782 68872 48325 96278 42933  
02860 21830 68649 64078 80344 44502 40593 28340 82458 49625  
91592 73429 74291 20326 00725 87002 30437 86096 73056 57345  
82136 27239 05570 21799 53183 23144 72346 11385 76786 05363  
33663 15057 10581 01404 98704 12020 91968 80177 96579 45548  
00975 35054 35325 36754 22820 65447 53581 61726 27378 42871  
94634 40451 07720 72407 57512 81222 44932 85527 04812 88147  
91377 25188 31955 26582 89620 09155 27562 43525 69167 82493  
79620 67266 88231 95142 07142 14427 12713 65538 22001 17886  
49562 16197 50630 54020 76728 92219 70268 42657 36885 98639  
39452 18460 87098 17553 27422 96342 21658 90971 72154 80750  
32160 00000 00000 +++++ +++++ +++++

**13370/11538/10614 kHz, 04-12, 0232/0242/0252 UTC**

**13370/11538/10614 kHz, 05-12, 0230/0240/0250 UTC**

69048 23157 03451 35153 77183 91677 44551 29534 75410 24072  
61170 27559 48669 48535 86737 33653 80500 64776 04829 65870  
37022 57657 86123 84423 28351 98046 61398 00391 70897 48057  
16489 94294 98985 12874 20166 99223 99218 06347 20857 28191  
66039 22545 73156 50426 01921 30450 80050 46277 10623 33983  
61815 95407 56946 64557 87496 77991 91440 98328 29938 93575  
63480 15346 30278 27312 71159 42781 82850 18236 21447 49432  
76443 09283 99023 83678 52836 83737 67254 72086 68559 17787  
49724 20840 70819 03880 65779 87195 23514 24571 18512 13145  
44291 81549 58616 38469 38572 09517 72570 35375 41491 29628  
68566 31905 03681 22165 58630 16298 81838 23135 60379 39498  
20025 74489 66834 57999 32609 82630 57747 84200 24829 64921  
50860 36476 11866 88858 16548 06136 22414 33620 04280 83467  
33130 00000 00000 00000 00000 00000 00000 00000 00000 00000

62819 22663 88930 00762 13584 26997 70481 44526 95555 68148  
10334 02464 19531 64037 92799 44638 53372 16748 17137 86560  
45709 99774 77553 07937 13408 64120 37443 42603 84995 24183  
02547 63089 17237 09352 22731 08247 27029 92282 77059 27390  
05831 29755 21868 39365 08790 77069 06495 30007 35766 61924  
86392 36415 46441 28692 88279 91470 76688 89047 07033 27060  
48411 39884 39011 59417 90019 34449 81480 05034 09735 17643  
52855 00580 88923 61406 13415 25257 87631 61159 91199 49034  
79512 79195 42776 55203 58346 45998 03544 10685 83312 55400  
07289 82523 55237 14527 79655 24015 40970 34466 35237 78902  
88105 72595 32964 77071 97213 62505 69483 20185 43787 92465  
15211 80709 67070 18352 22748 62738 67985 21993 62348 98087  
83317 50862 64126 76070 28359 00052 71686 30406 25202 22476  
36868 31697 58856 78222 10293 58902 28396 59016 07397 48260  
85301 48711 54641 43088 76209 05749 45584 92893 32231 78538  
61507 75247 72052 89678 36274 38841 10981 49964 70120 91176  
93143 88114 22056 79322 89017 07168 35562 37174 25474 03467  
77288 97652 40532 09180 93411 93285 80013 44303 13372 93606  
34180 00000 00000 +++++

**13370/11538 kHz, 06-12, 0230/0241**      00000 +++++ +++++  
**10614 kHz, 06-12, 0250 UTC**                No transmkission. TX issues

**13370/11538/10614 kHz, 09-12/10-12, 0230/0240/0250 UTC**

70033 89822 81900 35137 26421 37668 39643 61257 68168 22730  
49604 49442 76690 81742 18763 26175 17285 80623 48858 35864  
65593 40522 35355 79440 19312 90129 97760 09688 93594 36450  
02223 87999 23592 71217 62361 32231 22543 55136 29245 10410  
68882 47155 06475 59856 20786 70938 51304 36536 81591 35728  
47726 24255 64540 53804 62471 58406 30271 21693 19862 43960  
95506 57353 56433 72376 36363 10491 41302 67128 34736 88214  
73170 12532 41184 63209 89945 45560 52751 56613 51887 15332  
29176 12794 84225 39970 95909 08203 90195 15506 07393 61505  
70412 56518 69021 37156 09539 73207 41244 59634 16170 14574  
74219 80496 26877 32407 46487 65460 10357 45748 06071 93687  
32610 10546 37469 86465 69089 24160 02952 07468 74764 19429  
31621 01790 48035 27965 54657 65934 49419 17379 10196 65948  
60976 32124 66272 45884 97383 92629 35266 93788 04611 32432  
78291 57393 07132 77976 22961 26701 89607 00787 42977 25657  
23979 96677 72962 80083 77910 71715 56989 54077 65513 39597  
54242 72048 26295 60146 50240 68593 43271 73607 47062 33386  
36170 10432 31020 43273 90674 81236 41208 98772 09636 76625  
87362 07145 97201 31565 90486 79236 11786 33999 44658 32285  
48825 82378 23468 15863 39263 21822 79526 03155 74685 13561  
10474 14759 95062 17383 89929 67186 00023 91746 86824 63263  
69592 41262 21543 66614 05359 66218 32327 27409 27969 93854

50367 51570 91921 96052 07021 30629 03578 23146 21601 74408  
53331 08524 43166 13725 97878 23732 44754 65300 53524 88745  
93490 76069 86456 67098 45019 89065 10936 00576 35678 98075  
31329 63136 70881 83258 88930 38762 33111 44901 99501 52922  
57993 77508 92478 12339 51865 51414 87768 32738 49290 94098  
71088 59279 33949 88399 53771 09346 71351 29806 27985 92389  
26797 10024 53301 86509 67027 18990 35542 76460 65012 82543  
83857 82771 84298 77921 56958 36666 32359 94269 34447 80472  
21395 30374 74186 98209 20003 46773 41640 06029 28167 14460  
22119 57222 28004 27351 51880 41452 63697 70712 29011 82915  
21060 62733 90032 67123 10171 11425 63164 50975 69499 54047  
34191 35821 42991 71235 85854 08211 02519 93025 96732 77986  
57150 38962 10513 68452 22681 59470 11625 38254 49841 70691  
35350 00000 00000 +++++

**13370/11538/10614 kHz, 11-12, 0230/0240/0250 UTC**

**13370/11538 kHz, 12-12, 0230/0240 UTC**

**10614 kHz, 12-12, 0250 UTC No transmission**

46681 85837 36437 57985 05773 56395 50167 58598 04868 13168  
46296 29365 53352 49064 94217 16547 53996 10232 61172 13846  
37785 38974 70569 72750 09397 69886 26414 43444 45511 90152  
58545 19725 13139 99938 68355 86360 00157 33822 79686 92324  
75240 29197 24594 98351 19375 52579 18653 72238 96134 19776  
05511 30347 52926 70821 75365 48728 70372 85652 87045 92315  
02022 51431 48410 35623 71591 17472 34718 73382 19902 98701  
49685 44560 18722 13595 58902 18194 93677 67517 50299 14478  
23449 17414 01354 59542 07412 78786 57719 97359 18926 60897  
52974 07223 86460 41119 24167 00221 69731 14401 02847 93158  
23053 78753 86273 83357 63081 42719 18497 72766 83133 65740  
35972 14835 81291 67390 57427 82569 94442 66372 22648 81227  
55487 35255 09882 54070 15856 81859 86536 54619 00565 93252  
72875 83862 87967 03264 23376 15834 31403 69484 55464 60005  
64928 70675 80297 33940 60320 60515 15273 44633 27532 38644  
82980 01983 75793 24925 26260 12826 77548 47860 94051 28981  
02410 83117 77750 47727 13313 03080 02726 88169 42082 23374  
04706 91911 86558 57308 45713 21490 96512 14158 49243 54997  
40505 02231 59361 00334 70898 22668 53416 77521 29194 64888  
63056 42533 58895 39646 83232 51049 18073 10610 73874 85604  
08829 10428 83931 94545 65835 52190 52471 16241 71153 72251  
66504 86990 87500 65323 80242 56053 27166 97808 25469 56250  
98756 10278 67710 03564 98965 45053 87892 24187 41542 59827  
94180 32444 40662 13252 93668 08032 90879 33434 78636 46014  
10842 05291 07034 78002 42969 37675 81891 87978 26274 96232  
59349 71167 84517 12920 39981 09424 96875 08116 23115 61561  
43326 86266 28818 92054 41917 91012 17253 86558 20128 30716  
60085 27690 87490 10336 43623 29486 01674 30602 08389 54006  
45212 40389 54800 58491 55065 53274 69653 46527 72192 64173  
53096 21657 03345 27025 50773 66864 12240 79442 20835 36299  
00000 00000 +++++

**13370 kHz, 13-12, 0230 UTC**

00000 +++++ +++++

**13370/11538/10614 kHz, 16-12/17-12, 0230/0240/0251 UTC**

87880 85669 58802 80983 77337 25607 20881 98929 82842 22155  
99414 23990 37201 74664 42800 31332 57135 66217 38782 96370  
78191 81903 24601 39269 45993 08839 05836 12902 24781 22612  
07375 51449 09171 89838 04953 21838 50080 21524 10690 45194  
30744 96902 11075 80499 53769 42466 80825 87652 25164 95847  
21071 12104 46274 09256 95272 58260 49567 72153 61358 43854  
39202 57852 23467 52448 22324 23732 51769 26277 42016 19751  
43789 66607 47848 84950 25668 33805 64966 36635 16803 64297  
47647 81908 06314 46615 28271 06272 14748 23707 97630 18954  
39486 13712 77543 59664 07281 66368 71664 96466 82345 97266

05476 69446 03470 67113 91370 59873 48553 98202 79764 89532  
50036 45287 82189 79924 09637 63027 77292 26015 85845 37210  
35681 64218 52610 71925 24558 39315 52650 49887 78076 99974  
93837 08087 44354 77580 62081 95966 31136 00000 00000 00000

83256 57784 37598 26276 11382 38879 78109 67559 25657 78302  
61264 47433 18599 18653 78050 85733 77943 34569 53496 41796  
49984 41199 57747 13395 33819 60181 04742 73909 89779 35343  
99422 52129 57201 15281 19420 84428 34001 45032 42143 93944  
91521 34014 53225 76608 23055 92415 97245 98454 49504 53243  
56681 34149 30607 22185 70017 01282 55160 22509 24949 70146  
08695 27156 87628 53704 42024 95238 53877 07403 89103 55108  
33311 93553 07655 01209 02311 89941 40973 96868 86783 47364  
24370 00255 60640 25781 84673 55647 70937 63769 06243 17236  
25615 60960 61916 97626 04766 78155 32343 58240 81387 84808  
62127 83792 62536 08553 26229 08048 86827 66472 05057 83023  
39230 82790 91687 08846 69071 22686 79653 66427 22216 96890  
04732 20182 23327 16797 39178 82923 69179 04719 61837 60181  
18931 89038 52570 16082 92308 38882 84437 28007 11649 18054  
12070 22208 48714 62878 79667 07566 62236 13669 97076 49679  
37119 54491 57351 52475 61239 40915 94274 39529 00782 20443  
03247 52272 60048 75304 73996 07287 36677 42292 08540 79871  
08206 89351 22840 06059 38174 00000 00000 +++++

The first message has serial number #31, whereas #37 would have been expected for that one. This is apparently not a decode error.(PY)

**13370 kHz, 18-12, 0230 UTC. Wrong 1000Hz shift**

**11538 kHz, 18-12, 0240 UTC**

**10614 kHz, 18-12, 0250 UTC. No transmission. TX issues**

**13370/11538 kHz, 19-12, 0230/0240 UTC**

**10614 kHz, 19-12, 0250 UTC. No transmission**

94539 27438 90624 08062 67941 81611 00340 66017 80299 34706  
14421 39921 69543 90799 00403 78160 06213 20528 76185 68851  
98914 82148 84103 53910 83485 61058 57274 04566 19268 44962  
64174 87978 40960 76866 42370 79658 39474 53097 57356 01379  
70225 58523 47413 89256 12310 56172 40456 21700 26991 73435  
53777 61912 88945 52031 12649 94623 88698 53936 48703 61758  
29688 40451 64036 26705 68393 66612 71976 21902 70972 58106  
50445 59392 84837 62901 68857 09075 48608 94775 74489 74301  
88883 10919 49261 19533 77266 90808 72867 29736 46082 08546  
53187 06201 86222 15830 09924 28469 75557 77768 22399 37073  
11352 28706 77448 16755 45121 40261 78351 84863 43369 18755  
00734 14615 22639 74223 06376 47903 32322 28202 50879 77351  
83650 52463 46106 02285 48331 55899 63347 88323 75233 61737  
88155 85267 98586 42278 62765 82975 36121 03334 77054 09921  
00583 35568 93980 04104 73071 74910 20422 11025 11620 39250  
59368 88383 93483 33577 04399 22217 39156 00000 00000 00000

63481 59356 99142 59746 94087 62288 10091 29817 90525 22053  
32642 40397 28553 17807 39406 13696 89997 87573 39909 69387  
08456 50478 60516 67985 04930 78691 72894 96896 36843 36263  
56943 28841 08877 27046 09140 07314 19057 18879 32231 38797  
38534 36234 67209 96386 48487 38508 53508 64540 82605 26141  
28367 79620 48557 41761 01284 45931 26919 58530 64509 31926  
70968 72886 25511 76280 55798 43873 72344 58517 50190 46230  
07883 13868 09673 29445 13819 97060 14208 99949 30396 24722  
98949 68650 62799 51075 51506 30972 50146 56637 74132 71615  
58005 54577 34319 11206 80392 44452 52183 37024 62182 67981  
98119 85004 77853 46570 99143 65198 27536 05249 77360 47871  
36267 12734 69000 52441 67413 92284 97465 06428 86193 83049  
98803 66618 34227 56587 23076 19618 01070 18257 60032 03994  
03640 48147 62540 21175 40134 00000 00000 +++++ +++++ +++++

13370 kHz, 20-12, 0230 UTC

00000 +++++ +++++ off early, TX issues

13370/11538/10614 kHz, 23-12, 0230/0240/0252 UTC

13370 kHz, 24-12, 0231 UTC

11538 kHz, 24-12, 0240 UTC. Interruptions due to TX issues

81550 04318 64665 79072 39958 41203 19327 33534 67946 09052  
45658 38425 47539 27524 64694 87566 66075 99505 96788 87391  
54047 44032 45009 67664 07407 51584 90343 51265 05286 16426  
72161 50259 59060 25690 52372 80417 53704 09885 86705 11376  
67361 84507 51560 94637 80080 37473 99858 36588 07647 42018  
44341 08716 21448 99785 91739 12234 40315 43777 76267 39277  
05274 55845 65863 97874 73137 78437 39625 92871 89893 25252  
59879 80006 29806 20522 87303 35309 11185 21583 12568 07024  
24745 04448 02908 42242 35504 17038 87080 05424 44158 29798  
27134 31005 18858 38341 50433 77272 33341 97848 40377 73699  
72340 93885 09245 78917 90229 79337 01606 91529 33809 32137  
01735 80941 65208 13491 43474 30389 45812 31276 45962 09380  
67164 38297 23692 17695 39776 20102 44316 68179 75790 52027  
32643 00476 26426 30178 44264 42909 60142 06011 57247 64705  
92470 79230 55336 85720 03440 28659 01084 35891 03534 85797  
22375 81560 34126 80737 60754 60908 13328 15129 55020 95630  
63169 41889 58500 71088 79088 56332 13459 02097 27618 28411  
31073 26550 83252 30770 50410 94055 40403 42272 74848 41790  
61388 31714 09373 74737 46400 51393 47194 92516 36375 95236  
79114 29975 84724 01163 24089 03738 58832 02366 04415 81908  
57293 57219 13988 19094 53798 12477 53058 23951 03626 79465  
27938 51444 73663 27948 39074 36994 81901 27351 05950 14706  
57345 90051 02232 86874 56262 96387 99612 36939 95723 06109  
43781 03084 90366 85927 10959 54677 03315 07884 18444 38724  
47197 98185 87586 88522 96203 41235 82657 11725 95112 68512  
74020 99973 76225 87011 99066 27304 41256 00000 00000 +++++  
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13370/11538/10614 kHz, 25-12, 0230/0240/0250 UTC

13370/11538/10614 kHz, 26-12, 0231/0241/0251 UTC

83191 44936 07970 12387 94231 94766 41505 58137 94109 53589  
51826 86006 90836 04501 44627 50510 62243 37900 53132 98902  
25237 16525 57014 34498 96171 96046 79136 69157 97019 74674  
27325 00867 87027 70204 73338 77357 24554 47935 86235 31695  
88764 47917 62326 00777 15885 84938 18893 62682 29683 19715  
43861 53804 70886 24702 18628 51703 55205 92976 56211 34623  
14659 63622 21921 53608 01895 62052 28742 78143 62176 78718  
24606 01284 02736 34629 13749 15178 14185 07124 79335 92953  
23651 14344 99544 37874 84352 81824 74291 85733 31278 39657  
04793 71394 57667 23657 93142 95437 91989 78966 54099 51842  
80084 89546 56262 02634 02174 81973 34841 10448 79425 77001  
43181 64943 49750 87303 35258 63992 17528 84853 96305 35601  
06947 86369 63785 11489 73641 30254 05872 88258 54322 43491  
49641 37114 59077 21909 76163 48037 36041 72263 24663 19387  
63109 89577 72966 28835 46396 68170 86390 46598 30116 69813  
52285 76879 47580 97455 42405 38488 67987 47953 70300 20534  
18713 42236 35914 74179 87765 56361 74579 26350 36112 01874  
52587 26358 74548 28924 76539 61375 84815 50586 08643 01695  
89634 11789 05158 61705 01360 51323 20181 87536 03927 30355  
41933 07291 47797 25873 53774 04825 62572 12521 37094 02989  
16974 81239 58299 67285 80870 68172 07062 65871 69050 92252  
78026 46850 71413 24927 13164 18778 99278 40438 46953 45340  
02491 20123 21589 90118 37021 09136 64389 72396 87733 49065  
44603 19934 76026 34862 51796 29658 07014 69517 63009 72194  
35953 14935 90869 01191 58594 62438 29855 53356 55143 71333  
42877 50168 42527 48983 55398 37169 14644 70819 49244 21804  
75297 63737 73316 95727 93482 01304 13389 52525 35731 84215

88166 36776 55190 04461 63809 85407 42132 16597 04095 47266  
65572 64601 98417 91853 60690 37724 34803 43157 41738 53784  
10131 99519 45125 93341 94753 25475 32368 33187 93698 26501  
07585 52587 71633 42614 29238 10720 33795 21756 20794 18738  
80062 58893 09998 54897 74355 11788 51453 96197 96559 29359  
12188 64951 69157 53578 24890 13744 75748 80843 38518 97200  
13661 93759 20952 04016 47821 99264 93388 42337 00000 00000  
+++++ +++++

**No transmissions on 27 December due to transmitter issues**

**No transmissions on 30 and 31 December.**

F01 – FSK 200/500 Mon-Fri schedule

**12164/10336/8016 kHz, 02-12, 1015/1025/1035 UTC**

05442 30632 10831 09346 45996 56982 12317 24745 59234 86305  
84279 59613 50551 36284 43609 15860 91783 52493 25196 77965  
30499 73633 01818 81184 74786 74202 91240 15791 58210 08038  
05442 30632 10831 01186 20038 05539 17612 67521 23417 52734  
63958 45554 17257 01150 06331 79871 06109 56632 64357 95643  
25952 24732 69094 39631 42989 73448 20467 86136 77150 19497  
62383 31337 67491 24057 05213 24426 21680 08932 50321 09017  
16741 29045 96332 73232 46532 62236 31830 31927 10265 02268  
44156 89472 52855 65997 99026 56549 09958 50650 70624 19376  
64214 02121 26871 84826 61288 80249 99563 49852 50756 32011  
94062 68663 15761 08551 18212 16107 83629 87000 35193 70661  
34629 83026 69987 65511 51056 65029 24141 81113 73852 05943  
78516 77717 58914 33573 88722 91248 50311 65407 02905 41026  
12576 38828 56588 22719 89265 72682 24260 85004 79989 21134  
32373 13347 53066 05735 63468 69351 36024 36659 06095 59114  
51117 59033 83021 29018 88046 85326 92798 12407 31083 99636  
03260 75572 82760 44995 03462 36503 51353 29437 41956 54815  
94295 11890 47138 16319 34755 53776 29031 60650 93536 47281  
64357 25402 03506 56216 44606 05202 98716 30414 91772 49167  
95434 79603 71465 45178 07248 17687 58060 64397 61436 13373  
31590 64491 08810 08085 11068 74976 44183 87101 53919 13126  
79684 14853 76212 03890 38088 70314 73383 02251 58344 43434  
46130 41461 30514 78538 61174 55592 02283 75642 01572 49847  
24237 85608 86264 17049 26108 60095 63553 23778 41153 42220  
08189 14558 20873 08893 76756 07553 07243 00735 01060 50047  
38546 10780 24170 68277 18780 46235 03788 47262 54427 89161  
72998 23598 97914 33830 31896 79565 69079 19864 51800 36249  
80781 32207 44707 66790 13816 50481 58894 38432 08664 73442  
44954 63193 95711 79472 02003 47673 38002 09047 33757 92159  
20553 80106 69153 12505 53455 72280 27212 83181 80924 40894  
30825 24973 13494 46699 99157 85729 25545 12264 73348 87626  
85355 40963 55202 39368 09854 59497 63552 36763 61264 69892  
37995 00123 27845 21903 44664 21915 55883 41769 63753 23098  
25155 78250 63458 41598 85029 51893 90032 01343 93399 18447  
28651 35301 25637 82386 14750 60969 45755 21468 00554 31727  
56963 08251 06459 12519 73800 39539 11970 53285 83050 09666  
65873 58581 85598 88562 20340 76835 36443 90551 18638 57661  
25034 44798 91146 50681 63138 03366 39357 44292 72399 47794  
12556 67806 88806 80164 06861 05409 26231 09565 41320 95371  
66245 69905 90736 12960 66392 30021 79926 60458 04097 81997  
69093 12778 98414 18651 84993 92055 76801 36114 77595 69697  
79080 22448 06919 19306 15815 18240 89727 68916 23257 60092  
60780 25996 82066 42981 28321 73622 91987 62379 28485 61301  
19669 22118 08330 04433 00000 +++++ +++++ +++++

**12164/10336/8016 kHz, 03-12, 1015/1025/1035 UTC**

25744 97273 65092 62984 11100 93319 79443 44321 60512 28133  
62896 61514 11276 31629 57175 59008 39691 30688 98621 03153  
75726 41247 72361 21797 44740 95633 42744 25233 15932 03596  
52233 69416 62228 70459 05954 47421 61273 20855 84058 20045  
92229 01442 49120 21518 08058 61080 40731 01244 87977 31882  
74497 87513 99789 59571 87609 84132 26754 56604 98190 35892  
38696 76483 70597 23824 12048 32692 03865 76186 28499 10702  
85484 06099 06947 46484 77705 11785 48439 05077 00000

74473 57218 84956 31234 13191 63923 87876 11849 41550 08216  
02200 49641 70657 00885 33122 01810 17642 58202 90203 32158  
56470 99795 95475 45338 57939 92312 20536 66118 54753 18586  
51099 55856 92640 76961 02418 83366 53446 40504 34022 92372  
61128 30742 37214 32724 06608 85650 93754 47572 52400 26574  
29177 33694 02971 53743 09165 17144 51749 25105 52439 11426  
40745 98142 58584 50375 93694 39356 74252 12929 08679 31129  
46183 81983 21158 30621 34483 04525 73351 60422 84586 45203  
50897 35614 81354 50567 72741 56956 33737 66120 45183 24869  
63436 73399 16022 53903 96015 06095 00000 +++++ +++++ +++++

**12164/10336/8016 kHz, 04-12, 1015/1025/1035 UTC**

11926 72722 32432 87061 52962 32862 42579 58384 79216 45829  
83378 79624 58622 43948 54718 16493 26158 09214 77085 99051  
45191 98769 12736 96264 23999 46269 66246 87529 17160 87555  
06649 42111 66480 84091 78343 42428 61179 42583 92957 12123  
21981 54229 19356 34854 38833 02043 13983 74747 16919 09671  
58721 34453 10661 30158 98456 11721 50399 98089 95544 40468  
91432 93549 43350 27243 40112 91333 06064 19043 36671 93853  
76967 63414 99481 71170 72355 46777 60424 56592 03276 21910  
46062 71278 92299 60529 84293 76284 27494 91910 41192 75485  
70789 13473 17701 17818 62929 84283 60885 72269 92190 37401  
69415 74065 19060 72011 97984 65489 74054 11281 90328 79752  
70875 36873 95558 41387 02078 36058 47473 81569 09457 22369  
11551 91825 46315 15713 29301 64548 73821 92907 14675 93779  
58637 44561 82203 34671 63998 99230 11570 45082 51443 00814  
78287 57740 35372 50093 05190 56411 57623 46379 14396 54498  
74264 90193 84460 99536 71767 32917 42383 51990 54773 84354  
45172 11811 72626 14143 30639 91184 76857 07951 42129 56909  
26823 64387 56859 90838 85669 43590 72552 41826 73815 03394  
32072 67616 72147 84043 90720 90111 92104 27378 55910 12456  
54846 41422 53876 71369 46695 46331 03136 23184 43026 62611  
99367 86995 17810 27575 41410 93389 80985 50945 53052 12171  
10849 45566 80321 57533 73651 94140 68942 94104 47597 37950  
51657 92318 93412 98475 00103 06526 38693 67869 20923 74310  
68204 29217 00803 60425 37330 92512 30123 93798 50848 57302  
59911 71046 74226 37923 71781 24919 69633 12271 65547 81132  
73829 80052 94209 52016 60156 41438 00978 40412 51781 32067  
38040 52265 78406 75332 71763 41346 93623 37899 03992 34535  
95097 99368 64161 11117 14768 72053 51895 34509 71261 31780  
34773 59874 01698 45664 30970 66048 15076 07800 31439 85222  
34433 18794 41341 28814 19957 70087 45391 32968 90243 18996  
26821 72128 83889 65412 94648 14108 28603 66110 98924 15099  
10019 47578 38667 78070 57409 03327 92148 22977 88481 86608  
24240 42215 80437 34484 50492 39784 59494 84172 62641 77565  
26053 67626 45231 77173 57689 95265 38029 50807 57175 64807  
23941 59547 37700 56138 47091 22528 62486 98146 90771 25427  
80995 18479 69943 01710 28891 12133 17970 85066 83969 89840  
72281 56473 95230 92177 88651 34324 27276 80321 38774 81066  
87239 39422 70827 24776 26411 55494 37717 19111 33762 51791  
22676 90083 63552 95585 16926 43088 64207 11298 29065 28613  
00647 60908 30890 90089 87264 77597 69327 42300 73740 63538  
99166 53800 50863 87792 16282 31769 68571 45243 96030 32749



83381 62489 66511 47698 77400 07415 00000 +++++ +++++ +++++

**12164/10336/8016 kHz, 05-12, 1015/1025/1035 UTC**

43152 69753 56971 06120 52254 85290 89383 64756 43056 01140  
46466 82637 11100 16075 02449 07635 54401 88516 66095 41959  
50889 17452 54099 52826 30464 96506 30177 11733 90134 83353  
20841 17031 25649 51627 43759 79499 78069 17560 09653 75575  
18732 58502 83670 97967 21012 65530 17168 58307 92352 97321  
85832 21539 64983 27490 95104 76745 68758 02559 38806 74076  
34576 52770 21944 82480 01791 22920 83600 47930 28071 15388  
80862 56817 25135 62568 19727 34214 68802 70885 43908 31682  
56805 03573 17504 84324 12779 08085 00000

41494 25233 63792 90334 88772 19578 41598 91288 60882 55389  
89844 42850 92102 87438 74277 08094 44558 35117 10662 34967  
78573 77952 61168 31947 99690 34439 47251 26209 18275 03855  
77479 96510 82672 75749 13739 97959 71824 36801 24255 20877  
58302 29719 96867 50917 77681 43887 10995 22656 65211 42436  
91733 83810 45696 55421 94516 12308 87545 93809 93782 53356  
56917 63949 74078 68735 32896 87217 47050 15473 69645 54530  
42741 96111 16473 70404 48652 47739 31738 66255 94987 61975  
51544 87627 09532 53107 99163 85024 90592 16557 46108 63059  
71447 44862 60808 67570 74734 93371 05824 09097 00000 +++++  
+++++ +++++

**12164/10336/8016 kHz, 06-12, 1015/1025/1035 UTC**

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**12164/10336/8016 kHz, 09-12, 1015/1025/1035 UTC**

86296 93987 18639 06687 64947 41710 54506 96815 92109 72900  
51312 04943 52362 67847 72488 33166 55873 50802 81357 83424  
13979 61629 68128 36231 51582 11533 97302 31452 29801 90063  
11428 30821 77309 15572 52135 66891 53811 46312 84404 08086  
94072 94377 34982 94556 05967 09652 80901 24535 20953 25972  
49038 95849 20439 86682 12636 32316 86460 91775 95745 49669  
50108 33793 21509 40738 36154 14697 65227 84549 27302 60869  
98157 09039 96505 78462 32962 62066 80791 16254 06760 70415  
95019 28211 62714 91478 09030 52959 16090 87293 36598 52320  
15720 75635 09649 76128 36823 37852 36159 45499 66107 88115  
65194 71745 65089 33796 07504 53122 22583 81629 85126 16596  
32278 69381 08435 96814 56360 27673 04057 69479 61095 01687  
42120 81289 35337 87414 36241 43667 27865 62140 14714 82431  
64526 13855 86322 60618 31085 99285 49221 16635 32739 85218  
16323 84934 66233 52815 55617 91390 65508 69604 68885 40577  
06820 58835 57213 37118 84271 20883 46768 08322 91692 86393  
73271 20256 71802 05850 48584 04477 18595 05254 57877 37592  
43887 62614 60793 40837 43964 84914 95053 91857 27256 90258  
05946 65897 88992 24887 50126 48555 43763 69730 47176 87316  
51927 16216 77346 74048 00814 15990 48940 75624 26629 34255  
83751 54898 88046 61412 94013 49183 27373 62688 49287 98447  
80264 70436 56729 40400 19907 48805 03173 14659 46610 85456  
32470 43188 58752 90021 56517 79196 65999 03981 23414 41675  
30762 51658 91188 77768 48798 87021 80523 20167 04925 15959  
04930 31705 64754 98745 01790 54355 88417 62364 12727 04802  
77177 77377 86721 83784 88911 79040 04424 91402 83364 37340  
47091 65556 83129 05646 58593 85731 61286 02660 73924 09292  
91644 07360 12651 32487 22512 71611 60744 93347 59941 80152  
89224 58671 71388 12618 83061 62269 45715 87310 78768 86677  
70475 91396 34118 05508 12430 27210 78433 28630 12218 29362  
16878 17379 29124 32338 87185 61962 96882 93269 92271 38272  
76459 99568 57165 86262 16732 16117 83685 77114 59032 51687  
01316 61349 46459 49293 37706 15082 23926 30157 57241 26617  
39861 45972 41112 90555 85512 19153 07329 01615 32777 75767

94114 65336 56513 00827 55113 67886 52258 70627 39851 72108  
85296 41834 57895 32054 32007 01983 50129 43143 99439 11107  
15610 70158 34049 89148 67414 20266 55526 28877 15941 53236  
76666 38967 03076 46063 95207 46950 35690 54165 68580 16712  
91878 36349 07504 60230 98394 35744 49372 48235 02722 33869  
97357 49489 88193 20033 36174 53361 05636 43264 60441 55393  
19942 38935 76587 10541 95023 47286 64211 83777 65585 66034  
07873 52748 69148 04249 35212 42166 36769 29682 22372 94627  
65881 26749 52629 07548 23711 07334 39193 90892 54691 41620  
48098 10431 00000 +++++ +++++

**12164/10336/8016 kHz, 10-12, 1015/1025/1035 UTC. 1015z: wrong 1000Hz shift**

45803 24204 93792 06036 95728 46363 34326 92842 27690 82031  
23134 44995 07823 73589 05602 31778 69341 96062 76643 01768  
00125 88820 07995 63027 62437 47936 78720 79415 93221 21365  
19890 37691 58380 74154 09341 65114 59515 15848 77489 02214  
16536 07296 10105 60426 74586 89040 59519 28014 08730 98474  
96546 42822 24815 67953 75036 19965 79984 21054 76684 58455  
71241 09165 65349 87132 65517 55601 75831 46186 69691 99413  
01708 70082 63977 56107 67643 92854 47137 37431 97103 30449  
66939 11081 00000

07423 64705 79897 62463 46927 45417 33687 53958 74055 13997  
64603 65334 98425 90770 10486 41834 01399 33302 87939 85390  
62246 60971 83970 56600 86756 91758 08669 81868 61721 08424  
94862 95422 83737 96274 55675 70870 35765 19691 35942 22003  
09872 29620 18397 77516 99615 72087 05985 93511 10480 69763  
43503 19336 61828 54245 57641 13808 78787 90453 37828 20923  
97517 61115 82347 30318 32295 43057 77544 59830 77849 12638  
93769 78954 45393 196)8 23601 43721 57146 84690 48294 72693  
38232 97336 43394 18763 08058 76953 59438 16434 21835 63862  
38703 09282 33450 12093 00000 +++++

**12164/10336/8016 kHz, 11-12, 1015/1025/1035 UTC**

90743 01694 09951 79226 92936 59972 21800 60187 03491 27338  
60799 12040 77013 16160 60450 35570 58816 34901 47618 62823  
72773 96170 26528 95867 08889 23307 55449 08937 27760 41436  
45738 62388 24118 63943 37922 01917 16646 10287 34541 41457  
56244 16099 94396 53218 69948 21510 17925 13282 82673 48634  
78366 76206 83983 04151 78425 77070 32061 67919 37105 84398  
12081 53571 36404 52398 91151 52008 82565 45956 37045 93751  
61567 36824 92862 91071 93528 94430 24864 45846 15743 19761  
85618 34074 48999 95747 59673 02989 26902 52589 83940 41707  
92857 71459 59963 11347 94433 75025 00280 45563 29758 78227  
76043 57424 25668 97740 58106 13573 52274 43572 68750 61618  
03647 41225 86241 21678 99298 57860 69411 78025 86152 30907  
94444 31766 45694 22548 21054 00493 35977 48521 30250 75846  
23188 54675 00867 74924 82445 39722 17054 46480 72524 47606  
23910 17837 14194 77954 73447 93465 26859 88020 28078 41162  
03188 84571 13806 26757 26411 29157 73620 21841 58004 05196  
30121 25657 64357 20308 24050 46437 20318 42345 55091 54236  
63985 92554 07957 40076 62753 44293 06453 83016 87090 00767  
95866 30862 57828 50189 12569 16903 73620 21841 58004 98629  
48265 91424 19267 29359 12580 09193 03444 98706 60510 49251  
77919 02842 44174 03502 33818 30471 47505 68647 14785 75475  
93210 99699 78281 12153 62708 28434 81591 93986 33745 70214  
09719 61892 65372 67645 87371 72878 84981 44465 42210 85041  
57065 68142 11553 59865 38419 44597 09735 67721 49443 93483  
98286 07551 16253 77483 26141 76624 63276 84037 32042 51356  
61021 82958 26351 65071 58718 08356 94433 93700 56501 38317  
88820 85312 96835 70783 02316 94433 79863 19051 39258 07089  
32374 75333 27112 67509 85063 15844 35576 42428 37789 45798  
95402 83920 17497 07815 34107 76707 58514 02119 70763 80877

59892 92007 37065 05953 99485 93002 16848 77237 09461 69135  
21253 80396 42916 84791 41726 95182 86299 85569 48028 54278  
97320 06574 23468 88152 73033 31587 54510 41907 77785 51559  
16982 75022 85715 95856 26040 79957 17494 34690 42098 80531  
75979 76186 49897 96029 10501 06512 52907 81966 64431 46512  
50254 83452 85754 23286 88344 62087 05304 80141 04393 82337  
12369 73363 04025 68309 82350 29245 40158 66885 36152 59798  
85331 78131 35998 60601 14680 38939 47371 39213 41749 70816  
21741 47584 74321 27789 79786 16919 82452 05322 99793 18408  
95900 96227 40915 98281 73140 04477 55984 60619 09144 52856  
73561 96341 74121 45415 53909 81841 00403 70634 48584 95675  
59653 56251 18325 26762 97609 11690 88927 72517 18523 19015  
49801 50377 36493 58371 24887 71126 35888 78824 70619 47486  
08034 50553 80638 13423 00000 +++++

**12164/10336/8016 kHz, 12-12, 1015/1025/1035 UTC**

81513 69883 44575 55733 92314 65719 42989 94239 68510 22349  
91002 91748 08785 14998 48806 44495 45745 38900 28588 68472  
09635 71625 24900 45013 24963 99456 77779 80132 75972 90954  
97051 69826 01901 12099 81282 88519 07957 29833 29772 42846  
02966 41571 71066 57944 99600 20626 96413 88458 38163 78825  
91588 71447 19824 76492 05542 63353 60281 34472 29298 28264  
99761 27905 83548 69612 30313 66417 38372 22533 26314 90428  
13523 49044 89144 38262 32716 14075 00000

65943 06380 84869 01557 44680 76240 26271 25209 26936 11308  
39595 76977 87591 04030 52288 95142 98300 88921 93156 79863  
15497 01352 80031 00252 59514 91890 85265 90602 39507 69659  
46248 71731 03858 73132 13132 58336 20763 91804 50947 38341  
18682 87183 38305 35143 41335 86535 29863 88710 96937 47816  
74756 16466 06370 19238 08164 39892 79944 41902 58216 87793  
77491 68927 35414 12167 31416 99531 96760 77590 37446 51487  
01784 10102 42733 20385 02645 16475 86005 99167 35512 09850  
69466 56342 05393 02648 67110 96324 81615 52705 99153 50355  
46131 73575 27271 71410 61850 44914 50316 15097 00000 +++++

**12164/10336/8016 kHz, 13-12, 1015/1025/1035 UTC**

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**12164/10336/8016 kHz, 16-12, 1015/1025/1035 UTC**

01156 14151 84073 58343 77611 61717 86914 90473 92243 26550  
78337 28311 07222 41258 05147 99705 05922 18289 82490 19927  
37320 40698 91438 98297 42925 65509 39545 59768 58403 00612  
89087 04872 07099 41135 82677 56497 27649 76226 20909 66911  
02853 02180 71756 83478 82003 02853 16392 96504 13874 83298  
61115 17649 32515 67567 70093 62340 63092 96594 98573 34633  
39919 87138 31289 37944 53887 37674 55712 60108 71477 92209  
24872 06177 07222 41258 05147 77425 39062 17725 03498 19973  
91986 83188 34551 91476 18492 99614 30989 19332 56699 38339  
28179 48807 50117 77717 96916 04564 48977 78558 64641 13988  
20657 04967 62803 65779 36365 26534 82173 02230 26286 62816  
38670 68632 20373 56032 80666 68253 16967 82922 92035 96311  
46440 41706 70683 51401 22041 75071 87262 47785 95141 15145  
53738 77012 57060 61361 56519 92287 54654 27187 33815 14032  
11875 16630 01925 80069 74461 16467 60142 88884 19969 15135  
28952 09382 00319 84222 01222 55586 09048 83485 11069 49724  
90463 75351 50091 22117 32872 59818 85644 21335 13077 65714  
60860 33034 84342 59231 81092 30931 24991 55689 16473 08338  
89839 45459 75271 63704 31654 69977 27739 38596 84807 08806  
85132 31561 28339 63656 63601 36303 70589 50326 87619 77614  
22607 34486 12664 43500 52514 72248 71814 36928 38014 41462  
75964 95645 59232 74662 22339 53506 99075 29623 90994 41727  
43301 58443 34001 53537 97476 61103 86978 20631 63023 34434

57694 74885 39531 52435 71390 93759 45528 38873 77544 52833  
74895 18109 47734 33900 31113 55078 19312 62075 06528 20375  
64562 70337 98823 41369 90035 14956 81896 25296 95749 90225  
73296 65255 48933 15966 65449 65057 52019 96202 12836 43859  
09552 72482 92312 06516 23715 20258 78761 90598 73161 61763  
03264 26008 54824 93849 85982 68118 93409 54185 60933 90403  
48251 74274 34843 47465 72213 92739 47271 44411 02340 27280  
24200 73521 86914 28774 42255 04131 78650 65935 45768 36682  
48670 13984 83853 56862 00979 45747 59696 50788 92108 48653  
09233 67155 85632 16027 51410 37301 96223 86150 77222 89116  
02955 27509 69696 15738 36524 93667 72025 84966 70094 96215  
46037 00347 68432 69212 88175 49840 75033 23577 95196 03038  
41931 14853 96752 42843 31858 72795 97059 42564 47465 66206  
92839 24358 67280 01466 59713 59951 93086 78186 24238 99595  
38419 50440 63784 40174 12857 66988 01425 68405 81812 88945  
88029 40090 06489 08337 88764 81322 93700 15953 16163 22617  
10252 91977 76971 01879 41545 17791 24951 97163 99119 32415  
36820 75155 06803 82015 53540 66308 20162 35912 54105 02585  
58947 67527 54050 78729 57203 23723 45852 23011 60748 30938  
23406 88384 26711 11595 57780 16425 00000 +++++ +++++

**12164/10336/8016 kHz, 17-12, 1015/1025/1035 UTC**

66369 38526 30048 21549 74522 71721 09422 91557 71027 40393  
62531 51094 14716 19226 10519 19410 94586 91968 50843 52438  
58443 13336 10578 27992 82638 76488 87525 70127 37616 59506  
76365 48596 28950 49313 81996 14340 18551 66470 37285 56954  
55738 39295 67387 95063 72867 00729 67841 35543 25190 06396  
88624 62527 79640 97296 41346 42138 82239 55556 71773 17059  
00000

83986 10118 57964 48007 01635 58511 70135 07046 23580 81204  
44411 62463 20751 66984 70506 66712 49815 46242 10606 56861  
01860 78100 53751 20291 99600 80214 83613 27279 29067 30945  
08073 72666 16691 98566 24055 93800 87753 77231 16065 56926  
67109 34349 11840 29227 08134 99077 43579 78698 60833 46623  
88166 69035 15054 58023 84843 41736 79719 60104 53758 02591  
84050 75306 63828 54758 11685 36060 23361 45608 03655 43391  
91862 19527 91138 74463 36479 93859 43947 68731 81502 00192  
45659 47386 24375 58141 31362 45803 16648 73870 48925 63650  
33305 80479 29743 62374 78911 62488 79893 64725 04014 31592  
27644 36029 30231 45861 88232 51876 07478 89602 31889 81937  
51744 18111 00000 +++++ +++++ +++++

**12164/10336/8016 kHz, 18-12, 1015/1025/1035 UTC**

32806 66429 78159 54990 55666 94705 58457 96265 87053 07057  
49129 53497 88942 77096 11978 79320 17657 27145 37088 91614  
74865 01948 05197 54105 54377 21407 45089 32079 64427 10751  
78194 84118 30134 31583 67578 75819 05823 62243 13518 26418  
51899 00932 62846 24257 55963 90017 24257 72052 02847 84976  
06745 47863 23)61 16398 23390 92741 75753 18494 27648 60962  
41644 22550 74362 93803 37643 38755 22659 02788 75832 74849  
22928 73338 25689 65021 55075 24786 57862 07502 10231 87653  
74359 34284 33098 84171 54859 61410 67142 22945 73817 93259  
69791 43729 68062 79285 89848 73228 59570 46625 24297 77875  
63095 57024 96686 24518 33364 61519 24291 84953 31491 51315  
66225 45253 15337 28278 69698 05799 83466 43513 56608 82986  
27415 77429 17651 48531 71943 59756 06137 67301 07962 52935  
48701 19624 47825 47329 15102 19004 57673 41684 14280 61194  
46516 07284 08879 65542 16733 59231 65411 94568 05700 83302  
82254 62695 73203 91793 62669 70083 14358 06821 25019 22495  
02680 94490 67391 23138 93044 98390 28798 47410 39183 45835  
14141 36502 05416 25298 75142 70774 77316 58479 64413 08869  
00991 15432 04860 03468 05654 46202 41601 29662 89189 27399

68603 86844 71397 47155 47203 60086 44593 76893 58709 51912  
76269 03355 58285 20436 43479 19312 22278 84765 03665 96418  
06195 83647 31584 88620 55514 98259 77047 39568 36514 85106  
23136 92476 79309 09946 49599 25861 50280 78697 31120 63588  
96083 26248 25120 32687 26438 49116 28810 67339 27863 32893  
10171 82512 25558 30415 42535 65649 35622 91589 97480 59869  
74790 80817 75705 37099 19870 42960 80586 84597 34082 03766  
64087 53287 02481 15718 99736 41340 43635 85225 62325 11458  
89783 42098 19040 65281 52616 37247 61712 23362 16901 79539  
34860 84142 29121 47762 39222 60374 73327 38608 15467 16420  
51380 36644 37771 54864 09773 17184 71934 25884 80226 18011  
77750 57809 26243 40885 60289 32312 12800 68777 99797 52663  
41378 09753 14907 78489 17512 03465 38817 25476 43040 51175  
13166 53445 50257 55251 29256 91256 20145 79071 71339 71950  
51872 63279 41628 76593 75751 59320 71746 10252 26845 66206  
50284 58521 21396 81437 21154 98073 03282 02017 32440 59636  
52677 36509 40418 66852 74110 14068 98444 99463 06096 01369  
85389 54234 19547 63401 53310 02079 97136 29030 99055 64811  
10807 47295 89477 59968 39607 45360 94945 87121 95059 24068  
10848 54151 46220 52018 71772 66883 61646 44134 88048 30548  
10435 35627 59337 36493 89538 87310 44962 32590 69536 83206  
95670 00765 76048 06367 76498 90095 48979 03855 35440 78921  
46789 76833 97613 64381 87964 56675 89590 02842 46887 53057  
23593 49633 46284 84956 96245 71546 13445 30502 81563 30519  
92401 56603 22859 61945 29247 14308 53275 96060 72789 19439  
00000 +++++ +++++ +++++

**12164/10336/8016 kHz, 19-12, 1015/1025/1035 UTC**

31581 25979 00227 16665 19391 33495 20255 29738 52843 58275  
17211 07026 38047 59268 02798 66876 40934 12095 59982 23421  
03628 59681 39893 89796 54281 30172 95136 63486 27555 08063  
79233 42233 37919 69502 66843 43956 72991 17686 74497 29106  
99067 79278 86486 48904 96051 47828 15626 67891 63972 85065  
53567 34237 68260 16074 90344 96236 15990 79228 07853 88436  
80262 16868 76934 35829 14923 17619 12772 49549 26790 46324  
68261 12512 97606 22499 70068 78431 72867 33273 27043 20079  
00000

36431 73738 28026 32960 23871 28402 19821 40087 79072 96277  
88756 83623 46429 58296 09288 59851 02348 46457 66285 92507  
37461 48678 48043 41592 19424 16479 53451 82976 09697 42688  
49265 38500 32781 01355 38409 61241 21330 67047 25257 05654  
85577 55749 88813 37253 80514 54510 99755 61539 69269 32062  
42246 76851 06103 47578 26484 80826 87478 99763 02898 85165  
44637 83463 13956 18390 76107 45982 44495 21262 43597 60294  
56532 64585 79705 57339 19483 44041 80883 84581 71724 31773  
84089 83036 74451 89388 50570 99926 43747 72085 05211 79189  
71818 78569 04889 96982 73326 21095 00000 +++++ +++++

**12164/10336/8016 kHz, 20-12, 1015/1025/1035 UTC**

00000 +++++ +++++

**12164/10336/8016 kHz, 23-12, 1015/1025/1035 UTC**

39453 61547 32329 89568 26336 57565 48463 90579 33779 10133  
05147 28694 25000 63166 61136 39539 38154 10190 97706 59695  
55261 04212 44512 48592 31022 24054 72272 46825 02860 04083  
64018 00589 31897 75664 80371 06908 47868 85497 19937 59363  
96480 26148 40729 98984 12644 95976 28577 00014 68029 30656  
23439 45214 66373 73449 39554 70421 84974 76451 40399 83017  
85819 49970 54345 84023 44782 02244 41992 48482 72311 36675  
51093 43841 24078 98773 20012 91005 24987 89994 15662 97750  
55011 90652 16843 19195 70283 59114 78940 25003 57870 99442  
40894 78018 47683 14686 60400 54005 29952 88000 88272 57198

51704 58789 17895 11335 90681 86055 70718 30866 30141 16141  
03721 02023 82971 97051 49783 28452 38559 06556 26916 21067  
30849 86229 77258 09843 51034 98658 21818 96214 53313 49964  
41854 33777 27147 44848 22870 61979 34461 66350 22133 52488  
35226 97499 45672 64918 49850 27040 45685 77610 31835 06435  
72880 01534 91131 50324 54559 72323 97521 97627 54798 79145  
94832 75475 76946 36751 28804 33167 95107 28720 57652 38327  
05103 97610 86418 52466 70996 21336 67644 28113 79534 29110  
99804 94726 38428 36614 21929 25554 79425 05100 27855 02645  
52102 54104 48542 22189 19317 82464 75901 07378 90259 77317  
26550 20968 52038 15780 68960 94749 85736 88990 62416 18083  
77883 03203 81225 52716 63270 37615 22624 66055 60047 63627  
21807 00075 83053 55210 22535 18071 46297 45077 76726 96422  
90539 06343 71513 53567 96909 64357 07158 33370 72495 68404  
74292 85071 18845 77952 03919 07005 19308 43135 88586 46279  
06178 84173 98214 71595 93538 99392 38965 61399 86782 56557  
28632 74556 04726 47180 86964 95732 75253 08517 64375 72662  
90442 42917 57457 87512 32092 89234 84764 29503 03602 25965  
21272 60989 29134 10817 14975 94195 06006 86396 34053 20766  
21228 06689 18030 61348 68156 64026 31387 27382 24166 21243  
43043 12272 75307 78677 80162 54155 98864 30739 29709 37434  
37709 01705 86192 25262 41793 95450 69048 40178 19466 98778  
58078 35074 81652 43066 20398 21679 42733 53891 27326 48749  
82307 83335 84652 47156 39382 24647 24719 84059 51963 53966  
33759 93335 77996 78774 12928 74483 58597 97778 96457 77157  
09493 01906 75384 13541 51639 71097 00274 65739 16921 46597  
61392 80376 89899 83403 69758 67587 71521 12603 87501 46596  
75748 68232 80985 05057 95027 58399 95117 64356 95548 85319  
72289 68061 28224 43961 83403 69758 67587 54003 11258 49036  
05748 04777 84256 63122 88726 17873 17977 59149 37143 57130  
78946 81452 06148 40661 44519 25759 94170 34621 90464 70893  
70213 33400 10690 71129 04357 55936 17525 51378 12434 12816  
96014 22421 00000 +++++ +++++ +++++

**12164/10336/8016 kHz, 24-12, 1015/1025/1035 UTC**

84289 46399 98654 75121 91727 62760 66047 88738 86753 90835  
62472 07668 48127 44918 36820 38441 93937 17570 37520 26305  
40917 19971 33042 51477 54486 75882 00467 65738 00459 23909  
55553 36541 34337 07757 22760 90828 89151 59156 68628 75746  
47770 03159 46998 78433 10613 40474 29467 72088 94719 86556  
19545 80488 25104 72106 73937 78152 04323 34694 79396 68343  
71214 56178 58570 06077 84727 25616 03302 58350 93790 32347  
58797 18760 79147 18942 07123 23075 00000

23222 69113 19465 50343 98504 24016 79286 40344 24756 45377  
81077 46387 51232 13256 68951 83145 96876 25270 20529 61364  
03583 06678 16081 27288 02055 83441 22598 76786 51209 22967  
16248 61380 37042 72210 91648 28348 41916 47831 31390 62099  
20181 58085 34251 19010 41093 61148 25548 72898 84953 89540  
98043 13336 03396 95367 56864 63972 79791 96035 66854 13077  
50670 25155 25818 73465 74127 18294 12064 14012 56136 88293  
79721 29933 70703 69819 00228 44027 34819 37831 73462 56054  
24121 29677 56938 24083 00000 +++++ +++++ +++++

**12164/10336/8016 kHz, 25-12, 1015/1025/1035 UTC**

91607 94451 08771 87712 78461 33918 52309 37519 93430 65296  
26131 62664 56292 49942 24393 45834 14920 74468 91359 39373  
61197 24049 56696 85524 50934 75755 70859 37143 26223 04085  
01534 83600 63673 15896 77029 11539 96969 56920 87596 55188  
87169 57040 80581 15912 39209 06536 10376 55680 88026 80459  
29084 94167 02755 53359 28848 64131 82418 71509 71775 04797  
41574 74852 68399 97907 09327 85838 90612 76142 90160 07343  
30009 58585 60033 96852 37579 92927 96146 09114 05680 09101

63863 24421 78238 14024 09174 04739 00113 82146 30179 44842  
41541 21482 26009 10667 58641 19820 46619 82050 75873 00798  
91909 42060 01411 44523 33592 80081 11369 52440 58246 00878  
63806 61111 55016 56779 28460 34624 96362 45215 43132 90289  
85319 38758 32682 37333 67698 39884 51544 33261 32670 77615  
35729 87591 50154 88255 75226 67629 18478 47390 42759 85990  
20710 45341 39823 74542 13134 23274 45946 74461 94287 12130  
82115 97092 28001 41576 24289 35296 18877 11174 27956 29967  
63656 40929 49661 21424 26893 43428 76444 40342 14387 84750  
99120 17932 42802 26329 90357 20036 28926 86495 87340 34842  
46981 13137 92830 68902 27451 86926 22014 31132 95840 93518  
70286 09486 74821 35699 73712 70007 98188 75386 81613 32913  
10075 23451 74386 05430 47851 47979 73600 76045 32165 18196  
30324 99884 12535 26203 02608 29876 41957 53751 58069 73410  
78947 76213 62506 79178 40469 20948 40485 83866 54165 22255  
18848 73406 83362 40089 89052 38461 23248 34743 49306 28839  
91686 14664 12424 36521 63105 99605 90343 61983 18871 66306  
91234 43517 12621 68863 90150 54218 73965 51008 59150 96339  
99009 92466 67823 47698 01132 56578 90175 39817 20443 31384  
78789 72496 15390 81353 92209 94493 84911 51938 86491 05007  
94606 94160 06847 55649 05343 01389 40318 57591 27740 75526  
15435 23576 50972 64770 59776 99477 19328 40141 51377 65101  
54953 02978 24930 08910 50234 40565 18692 06359 78232 72103  
73073 56543 94639 52192 16809 56814 29661 24022 01667 20096  
93284 39461 71632 64538 42364 88225 77506 30247 82957 03316  
72841 02729 06357 34912 52167 47783 82242 09915 17444 87486  
57413 19318 83669 71998 33509 00596 59585 26836 22184 07307  
64418 80342 01153 83082 66598 01002 19560 82205 55379 99318  
26091 03950 81312 73928 18292 32887 26506 06633 36501 02330  
90603 36057 50858 23109 03425 64593 14815 44876 00203 78347  
83582 42100 20360 84753 20963 41975 15750 97552 42996 36394  
79317 23820 71860 45205 30098 32739 98461 22916 15511 10791  
77156 26049 16868 33063 01037 83320 69043 05361 31222 35851  
30250 25411 00000 +++++

**12164/10336/8016 kHz, 26-12, 1015/1025/1035 UTC**

14247 10997 02061 51109 75764 74937 69453 56104 88844 20601  
97816 91802 04999 31010 04586 31972 01060 05238 34707 24279  
04976 06154 93132 26023 00000

74442 35481 29683 28572 01592 80502 73738 06384 92295 12080  
71012 35314 77774 83736 51314 50320 37376 90053 51677 32244  
28707 61019 06878 54169 88153 08433 00215 29046 37769 04054  
72973 50774 59431 94165 16021 45932 22234 80260 91967 78332  
74028 20521 61335 73604 33072 31794 11164 55978 40705 96734  
09492 14465 61004 05822 34170 40621 38346 88911 49404 05078  
48812 16045 28517 65031 06390 72168 46312 19878 09886 35473  
89524 57176 41506 14037 58768 56136 53031 20447 60420 40806  
00528 89109 11890 00165 13529 65912 08704 17287 09630 24941  
26841 74782 90429 91941 58765 28691 79757 79193 06580 68024  
90119 61510 80753 02133 28311 48034 77850 43101 76118 29519  
35694 75348 07067 05789 89424 29614 25133 23066 76853 03540  
36366 75836 66593 96009 89366 52971 07358 47455 45539 32758  
21910 03298 65073 56552 94059 42728 19586 35734 22181 40006  
67358 71643 37657 50461 52107 93196 11712 38396 11235 41870  
99057 89063 04482 58724 91793 71921 98931 53176 81998 47336  
71300 58192 56449 33938 13445 01594 71911 78805 52039 48169  
84425 27171 00000 +++++

**12164/10336/8016 kHz, 27-12, 1015/1025/1035 UTC**

00000 +++++

**12164/10336/8016 kHz, 30-12, 1015/1025/1035 UTC**

03288 22547 61684 34291 20520 85650 96181 73069 02819 23828  
43839 11906 83237 74594 28437 25729 91575 37702 77515 71159  
80542 99715 14019 88480 54363 70803 08975 08787 23267 50915  
81148 95991 32289 67544 54601 78392 37825 52258 10106 49465  
30383 48192 91334 42594 26956 65679 51782 09409 81467 28216  
53342 56422 86715 75948 52484 19663 66266 18864 34959 81972  
79717 56879 84990 62674 89781 09005 99859 34295 64626 18789  
85854 46016 13903 28210 96489 58554 81901 37214 98959 20162  
46280 91091 79746 38418 95787 62865 25327 27514 85436 22889  
38911 35712 92554 12842 79162 82669 22141 66302 31821 61314  
34994 43093 50172 83950 97017 69580 25308 77304 73159 02126  
72106 56171 14420 55857 41872 30366 11359 65971 97572 24668  
12546 73734 12613 16430 31395 54388 79083 20566 89803 29122  
36411 76574 72059 28330 56368 17310 87429 98318 45356 24175  
64877 68655 49921 98429 28356 22355 76424 03300 26093 36084  
60811 56570 12328 82571 49414 78362 04918 12413 76732 23763  
67269 57460 51118 55016 88019 22977 84312 32946 56904 60749  
25762 32306 60266 40354 87664 10743 44617 60737 71673 86062  
21717 69334 33194 01482 13578 80880 44222 83556 60864 13127  
40651 22472 43101 81629 64992 29390 84129 20817 40438 50525  
41269 23511 37216 42653 01598 16087 17161 39730 33799 11472  
67450 65313 69018 07166 59436 70473 09156 20457 93510 01874  
86040 78048 15947 29719 19922 02250 18646 90260 50710 60952  
57741 22526 40415 73554 51972 03984 70208 90030 46796 14822  
80555 85337 55150 85522 27848 36332 10815 07430 55982 73407  
95314 10987 06311 24012 24284 41342 14419 90256 04255 86004  
67143 27793 95779 34237 18294 18142 43847 72876 86496 51676  
61519 48262 83606 63424 77727 48973 47121 88902 85168 89048  
75042 32152 49229 96382 86606 63164 63895 35989 57342 86899  
65556 22810 01875 51063 40674 03764 02922 84850 88217 13725  
09922 85824 22841 35107 55731 97136 29703 15759 64812 42257  
06899 24837 51381 09422 56416 51359 30918 02963 09571 75124  
93504 03736 97851 64678 12411 05800 05107 82020 86374 21567  
62026 98731 39008 72591 68835 53225 23773 08191 57158 03789  
07961 19089 26971 57118 34108 38261 19597 77026 82299 46180  
12668 03022 81778 22640 48002 33425 45321 12353 28325 52734  
24794 96493 43775 07916 11340 87403 14139 63298 28639 88616  
57736 88782 92667 87402 22912 61025 36395 72026 43056 82308  
22868 90897 01103 46769 95102 95796 14434 08675 36240 36382  
76135 32447 38381 98141 13531 29106 03565 01001 49949 08820  
25296 00754 80643 04274 24096 60516 98809 44507 35475 84388  
32640 83941 73802 30512 79355 16266 20476 45703 47135 27867  
09860 88862 40909 70512 11403 28425 00000 +++++ +++++

**12164/10336/8016 kHz, 31-12, 1015/1025/1035 UTC**

62231 46446 61142 76690 59510 97758 28530 98902 52704 53216  
47294 70330 48939 85239 38505 66114 47916 87324 19608 98371  
09602 31257 84283 84202 38090 49078 51268 27870 35956 04011  
86353 53062 09859 76410 78708 46201 30306 42163 73776 96717  
77044 37965 19861 45238 23696 59336 06651 75622 41679 98994  
50827 11881 28061 04852 79824 05219 87023 06089 55921 24238  
19624 80720 07850 80739 01549 63118 62115 55556 53543 14891  
91201 08264 34203 07603 20874 82398 09815 90732 63734 42021  
80939 29081 00000

29101 33781 56013 08340 35786 26992 02548 51123 38833 80758  
28391 87150 61914 55309 19030 40609 84721 17924 29981 59663  
75991 26816 99945 50978 09835 31518 46481 26824 45050 88204  
36380 25732 72115 13401 47945 92610 57542 24503 67345 29279  
40279 40551 86243 51342 59859 41696 92873 12360 20963 10799  
73775 81227 24107 05586 68349 83729 17123 34823 43433 44176  
47129 36914 80093 88087 17682 84393 89803 91846 80780 62726



02204 90256 18432 96863 91638 77955 93449 23991 34639 65610  
74179 35907 15563 76832 62834 30085 00000 +++++ +++++ +++++

## **F02 – Russian domestic net**

Mode: MFSK-4/150Bd/4000Hz

15610 kHz, 02-12, 1026 UTC  
15610 kHz, 02-12, 1035 UTC

17510 kHz, 09-12, 1021 UTC  
17510 kHz, 09-12, 1035 UTC

14983 kHz, 10-12, 0746 UTC. Test  
14983 kHz, 10-12, 0800 UTC

16081 kHz, 18-12, 0700 UTC

## **F06**

Link 00000

**9064/6787/5452 kHz, 21-12, 1700/1710/1720 UTC**  
**11122/9425/6787 kHz, 22-12, 0830/0840/0850 UTC**

11100 00000 59148 20001 01939  
41641 12792 78975 69496 82349 83996 84947 07215 00740 77600  
24413 77665 98224 89115 92181 16213 33131 92769 47363 33222  
06390 13698 93047 06222 91068 19363 52174 53018 66692 34911  
63038 02949 44289 12129 42857 08478 93088 06713 92839 64305  
04825 43520 43204 26183 56570 74497 61568 46625 58049 58972  
73157 69707 94348 20994 66269 52122 99989 63419 81424 02706  
25279 43415 07655 57599 80878 39077 34346 33248 71544 61855  
32097 24414 54956 94458 61011 39404 86584 58940 29872 89684  
36530 44649 54629 76082 89274 50724 89649 38754 62275 22835  
30143 63112 04354 88839 09237 58900 59793 23068 38097 54586  
09109 93892 62570 74296 22411 74298 34754 89437 86300 20117  
22957 62223 90241 45639 08465 23282 83342 51265 42569 50528  
37484 82898 62282 41502 77734 27765 88183 96338 65983 76344  
52829 53583 48740 05110 33173 46019 05029 59736 85418 68701  
55315 43513 05755 76387 17413 40592 65414 52553 20291 28806  
93474 17171 11737 61714 05858 65448 20800 24582 03955 54718  
60960 93963 91323 81644 84956 55599 81882 16964 27211 60283  
98048 89928 94789 22427 82256 39636 92837 90969 70289 75456  
95420 47347 99872 13716 97714 10198 52945 82841 10489 51496  
55074 01191 00000

**9064/6787/5452 kHz, 28-12, 1700/1710/1720 UTC**  
**11122/9425/6787 kHz, 29-12, 0830/0840/0850 UTC**

11100 00000 95438 27002 02179  
79240 79674 09242 57185 37966 74961 89188 50527 53107 94673  
17056 82796 11035 26893 89391 92359 56786 37791 17004 08048  
83409 12123 96201 49072 50321 38742 05124 50437 29100 33329  
86105 18523 00160 15505 00020 46535 48739 82531 63525 44502  
33645 46782 05165 63511 27190 29169 01247 18874 49754 25711  
77454 41903 47419 89440 87103 14983 86096 94823 02015 69642  
60612 76891 76903 52293 42152 62261 73255 87330 12541 34246  
53606 92294 58762 99228 82172 24757 26179 46496 92759 65646  
53876 18715 09906 68676 40574 35238 34174 30580 14542 35442  
27545 61830 05958 34254 59851 62541 45144 07088 02177 33222  
35119 46353 78169 75094 71903 56738 09200 59638 11019 81452  
14308 72069 03613 76604 50871 58425 50655 75919 06930 30958

48632 12977 81115 11509 25185 93150 11110 17565 88129 32444  
36578 20671 36288 05413 07515 31903 05577 69347 73930 94070  
48785 56925 17833 85346 72485 54495 13423 64018 79505 08201  
26455 09026 90405 25122 88692 36001 42402 61624 08402 93474  
89161 16101 02815 68952 49921 68297 63505 59534 81351 32405  
90609 86780 70619 16115 56837 60496 73081 02814 87197 21135  
43030 99109 65392 15502 30964 14882 02802 85439 45779 68033  
31011 74195 05358 31142 03803 80154 23955 62191 19566 12615  
09859 86571 00046 29309 71724 22535 86387 60346 57046 67300  
38394 48271 71198 85989 47948 02215 00000

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**5913/7992/10687 kHz, 17-12, 0900/0910/0920 UTC**

11100 00000 51324 17065 02529  
50937 10578 88136 59930 00056 37275 85235 54038 66291 10106  
73591 96412 79111 68681 87562 15378 37723 71990 11908 58810  
77001 46828 17685 42430 52666 32418 79118 02868 50386 44667  
88611 41457 48485 08483 12078 69689 88964 31594 51811 92262  
36501 18316 09046 88666 30124 46689 63422 79244 57263 57443  
11527 86657 04836 28206 31711 28704 67077 31409 67355 03418  
14804 99319 45788 52395 55773 44639 75030 13278 40865 10112  
85564 97333 95732 45561 09303 53076 82638 35820 12962 01850  
22158 27968 28009 56335 29420 31325 44380 57892 44601 88638  
60159 93694 62333 41895 04400 79584 89732 41203 75274 19589  
87727 70177 60750 78029 75369 86262 33969 25176 01828 99439  
40517 42361 15743 37750 19788 97518 86630 73065 27601 27055  
58027 05558 52293 85016 37054 30292 41435 45476 50107 34393  
81400 69079 19335 98204 96938 69688 39610 98903 62963 42063  
60679 39979 45733 36509 04171 55041 15611 91445 70158 59374  
98600 59811 12959 47682 58832 90259 90859 61471 29196 49079  
19453 74488 32312 93768 83282 69670 59008 34213 85462 06031  
96518 42398 39989 98928 23568 96586 36402 62153 14540 70917  
31502 85256 19914 06345 47812 44590 15165 23867 83452 71455  
35298 65968 63138 25834 37225 77237 84977 49112 57152 60067  
42749 94253 55179 66402 28370 56843 64293 11447 44211 55459  
85945 20295 79977 34784 99389 43402 33815 89920 76991 01840  
82351 35329 22668 48279 29345 66834 75669 54630 87639 90132  
46876 62278 74103 14243 79801 55861 22244 33340 53493 46508  
42188 45396 69513 75505 82711 81087 90191 74289 75008 41377  
65250 00000

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**5089/7337/9481 kHz, 21-12, 1235/1245/1255 UTC**

11100 00000 42135 21067 02529  
17877 74317 36726 00802 61353 89999 12789 00143 06995 31924  
36220 12421 74383 50717 98704 63819 08181 13406 29003 41276  
33781 75456 21898 80983 18539 80643 06303 52678 11994 55945  
88467 19427 63544 93638 31224 77590 40995 37798 55199 06639  
98418 17360 72937 83532 66780 92978 91875 41330 65741 09821  
47099 76727 60105 73512 49825 36208 09318 91418 62539 35496  
83480 46442 36734 91997 44299 95524 74184 74911 14414 10046  
97693 02716 83545 00311 42245 42691 24899 91291 02510 92195  
20248 41844 97635 46353 17163 24552 39256 81861 66791 08419  
13664 11605 15655 11565 14080 89746 49874 16142 83954 72001  
15288 62640 57252 60772 61874 65772 06630 89835 85934 19130  
35479 28269 68466 80801 74741 08294 33164 57129 70452 06750  
72489 26796 72946 34848 15241 72441 63655 15934 34066 11975  
80443 55907 16360 46790 27417 36021 46965 69056 80142 82717  
76143 95280 22216 94213 71222 18333 74105 28506 75382 95106  
00237 82490 22006 12017 05219 16884 78028 95515 55176 06631  
14735 59817 85122 21492 29434 09016 78292 66487 66445 35784  
28397 36900 10847 83842 20715 67509 53408 66388 92983 80755  
50154 57663 61996 63516 24996 99859 26873 27183 88868 92542

84919 30723 73800 56775 21028 71427 05376 91150 56548 73009  
62000 61891 68566 25760 94426 94226 15536 58446 03976 57230  
30191 46623 02875 59288 65680 87070 05178 96417 05867 93026  
21674 20591 75723 89905 57248 20270 12756 16200 34116 30341  
85411 59235 89379 13625 69389 80487 20328 81158 17799 10128  
75939 43434 86104 15500 18007 09784 97797 73209 00333 78093  
67250 00000

Then a strange one, clearly following after the 1235/1245/1255z one. The transmitter cycled through the frequencies as expected, but with a carrier that remained unmodulated at times: not a new failure mode, but the third transmission was especially weird in that when modulation resumed, it apparently transmitted different contents afterwards. (PY)

**5913 kHz, 21-12, 1435 UTC. Modulation started after 34s**

**7992 kHz, 21-12, 1445 UTC**

**10687 kHz, 21-12, 1455 UTC. Modulation started after 1m07s and ended at 2m11s, leaving idle carrier**

11100 00000 87643 21068 02529  
02877 06204 67524 96191 68143 87414 88486 78191 77269 94602  
61795 79517 97565 63118 33217 49096 49113 45699 03035 46324  
93828 51502 89957 04377 70704 16093 49819 67430 00688 19580  
34991 31498 09627 95077 05463 43572 42714 94697 27515 38752  
68874 05232 20936 20045 98536 30747 40698 10537 63212 84250  
04056 32606 30336 55626 98983 93879 51796 48034 34908 84619  
69587 99947 21648 16210 27042 35024 87532 55458 59050 07000  
72600 34379 59738 31786 57847 40150 51011 23962 16440 14940  
00419 79849 97834 20277 61777 74359 80759 45665 36975 63790  
55964 66121 82416 11779 24704 78325 08526 80571 23878 70070  
45753 54828 13769 02707 75533 90122 89315 11257 49606 03345  
00859 51891 46172 47181 95297 51462 36283 35862 13593 38773  
58943 14375 05555 62266 28323 88313 47857 23838 21547 56561  
76205 83440 20487 13999 67609 14183 05992 16411 33686 12601  
28002 24794 10936 93791 99969 71242 58932 26103 91050 13609  
02354 85056 14468 71112 77807 31196 35517 58103 71368 41554  
47637 58147 57784 49414 89976 05644 77274 72065 04913 67132  
10869 31230 58938 39516 40213 95853 75375 07345 02788 01950  
52335 26387 78476 29182 64373 25642 68414 38866 71272 45013  
52062 03093 82389 50796 33445 79649 50012 96203 12478 12428  
90152 19082 42337 62006 54220 94032 58795 96101 00013 81110  
92478 94566 35458 38294 99955 48626 33553 89913 74627 59041  
41923 68220 23325 62884 35458 70287 19584 43616 85442 97436  
69497 04153 43633 69367 51124 07602 64714 30178 13351 15373  
15569 88473 45179 77329 44801 58743 51350 53680 10957 96191  
68250 00000

**10687 kHz, 21-12, 1500h48s** Modulation burst for 10s, undecodable

**10687 kHz, 21-12, 1501h24s** 2 blocks, undecodable, during 2m26s

**5089/7337/9481 kHz, 23-12, 1320/1330/1340 UTC**

**Missing serial-GC postamble; we can note that the message itself is still 250 groups, like all others. (PY)**

11100 79993 72354 23035 02519  
06699 78907 72334 93397 53449 77801 97113 91799 32732 84296  
48643 87964 22463 59035 60474 76391 03812 26207 20234 03580  
26143 91977 30500 16189 66574 36057 35411 37813 32613 18607  
23929 29064 81284 69660 45705 10629 53213 53251 00475 54015  
45076 23439 86932 69656 68872 14415 22007 47063 71449 31880  
66495 26719 12721 37873 17975 08399 26010 46251 56940 25601  
08962 70999 57098 40782 18460 94559 95761 41076 67983 48361  
25284 39193 50842 22761 91455 09179 37731 48547 09817 11727  
22033 17225 35823 88727 11321 32256 89782 31743 88480 08441  
22530 54098 90908 61635 32751 21266 81202 55984 71907 19249  
07807 00865 97700 65631 79023 14722 62005 92992 98851 97989  
44207 59383 38070 82277 65901 65520 39020 48014 47864 83426  
77510 27741 95253 26173 30296 37230 21968 13424 21551 01628  
50104 12470 46792 68804 45447 59440 97673 27093 74935 90374

36108 69618 97038 36846 91130 72388 20975 65826 76958 78349  
95721 68466 55685 04579 14747 27508 93030 14813 47395 17975  
80606 24496 32881 20871 23110 30538 97807 54543 13909 82957  
83165 53410 47438 40615 91737 48743 41846 78218 91851 31185  
70339 36775 38422 99692 24651 34694 97208 26595 59081 81724  
83237 93451 88531 62907 49326 77400 38994 84735 85629 92676  
73908 00711 16175 17000 44840 58480 03292 57512 39912 35743  
95903 35950 28427 57115 82593 97745 25120 09138 35400 74741  
22476 95618 55265 56201 64553 00491 55092 47818 60742 50378  
41323 23389 62915 94062 80004 98857 54377 41021 58250 83405  
24086 26246 77061 87287 24550 93508 36427 91081 36864 14277  
00000

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**12184/10169/7739 kHz, 02-12/03-12, 0800/0810/0820 UTC**

11100 00000 26798 29065 01159  
08812 06326 73239 64699 32374 77131 30425 57327 83590 46538  
08821 29843 67511 66137 73094 14162 61574 87349 76525 32511  
31077 82541 85308 12722 74435 15059 47499 26682 84165 87879  
55014 94108 34520 25566 72144 18852 31729 69204 29004 49894  
87770 89021 03359 84251 03623 44362 39277 53956 72912 45722  
76026 64303 41920 98514 85666 75563 86875 33263 42766 45332  
94460 51911 74696 73713 56484 44931 65916 18528 14654 58916  
14707 72717 16378 19358 65782 21156 67540 38278 67216 19035  
93194 61417 25125 59019 42091 34656 54540 19363 96001 94369  
49907 10167 69762 11390 23658 59969 12973 43267 86280 09856  
49302 74528 66332 07279 14320 49598 93833 16764 77807 28098  
95473 89709 61472 65113 00000

**12184/10169/7739 kHz, 09-12, 0800/0810/0820 UTC. No transmissions**

**12184/10169/7739 kHz, 10-12, 0800/0810/0820 UTC**

11100 00000 78561 06066 01559  
79516 53920 02000 89631 23543 94833 99833 91884 34124 13745  
71571 72348 24503 01936 74007 91816 57806 45827 68112 74561  
27440 47665 16276 63256 75458 36167 29240 22439 53626 90534  
79943 76442 56830 26289 26437 92740 83546 16358 11072 46639  
03050 45856 28145 28251 34042 23992 77187 77693 64397 01542  
44092 59451 66710 67329 77245 11833 89326 22143 50884 32459  
27556 53539 32835 85729 04743 59950 98839 43198 17889 97561  
60649 92795 27519 48364 00076 77835 96467 32848 26187 51745  
07278 15760 97839 59457 12905 78355 78720 81395 00408 55608  
17104 01000 72311 61784 67502 81721 75340 52842 96393 64429  
31195 99076 39227 21162 49073 66470 00877 26170 24611 30153  
16746 30173 54943 68448 16699 48785 24558 10909 59020 01034  
41648 38797 26569 58909 29629 61451 02340 93899 03524 16962  
66596 31421 85905 70599 82780 49108 42065 09440 64375 79880  
39114 56617 39914 05736 58698 53640 58322 53204 18014 84213  
01773 26397 78807 66153 00000

**12184/10169/7739 kHz, 16-12/17-12, 0800/0810/0820 UTC**

11100 00000 59261 13067 02299  
61686 40714 98999 06264 47385 30060 19016 18008 90488 97864  
71331 05326 52189 13837 98214 23200 00529 58889 82720 54350  
61396 98861 11056 89848 65319 37251 29974 84823 69751 45379  
91372 50202 61529 93440 01286 66424 69196 30873 15459 30068  
39880 89468 48695 69323 60396 07690 90156 89246 27296 99606  
41807 32743 95510 16901 22194 68206 60304 77379 02743 39757  
52217 58422 68765 41016 49678 78811 22357 98348 38987 17381  
69376 74524 76341 41913 57697 28715 31607 46732 58918 93788  
18511 22425 10714 56819 40951 06127 62015 53756 10102 85812  
88221 14199 12010 57029 68603 17193 30369 55505 43111 44017  
54155 14082 90766 38862 24811 17391 96810 13370 02672 52727  
00827 55954 57315 80554 42993 31840 11526 73069 50676 84769

93557 94274 32541 76300 77389 19995 72365 23644 15651 21264  
39756 21971 94915 59539 59938 62132 68042 67159 09822 79722  
43259 11504 32518 96433 34664 66268 87508 39629 03852 38322  
78641 51075 47330 23556 27144 20777 09428 90178 81848 06841  
25383 12892 83813 27317 24291 06377 27517 34948 46598 31540  
85829 10768 55844 72950 90944 37481 49324 10902 88439 38573  
97361 36540 06691 94069 65888 83506 08786 68905 02009 74502  
19159 14818 87240 06255 42116 31721 88119 21281 14435 99484  
58854 39914 59247 16063 75719 51022 33368 02912 07875 84852  
85274 63619 54297 16443 65914 06708 01515 73039 59534 68524  
81828 43950 26716 97172 36708 16284 76809 67227 00000

**F06a. 12184/10169/7739 kHz, 23-12/24-12, 0800/0810/0830 UTC**  
File 44468 (binary contents)

**12184/10169/7739 kHz, 30-12/31-12, 0800/0810/0820 UTC**

11100 00000 53247 27069 01979  
80204 23888 39399 39081 56352 03141 94953 46796 12106 05203  
08743 68195 56677 92415 48896 01043 39414 89126 00218 59659  
58460 93745 68203 13785 48811 87768 67926 51752 91951 52716  
52475 41419 14262 30919 60627 87295 66384 91088 88449 07289  
00730 84606 14514 77527 89317 03483 33406 18679 49137 75899  
77234 22218 67213 60304 29807 40061 42573 23963 63169 86034  
87281 16930 51202 22580 53760 77362 39950 31161 80556 29127  
79376 89798 73759 57618 46235 06166 66243 74745 12743 79693  
21936 09013 40734 91114 77292 81636 05999 42889 37165 54639  
82478 98942 67247 61840 41017 97159 50298 58713 42347 33070  
98319 52011 29001 38162 37872 95124 45840 01266 10733 60098  
43878 06435 57066 22241 47100 85772 73304 18277 86950 10637  
61920 63963 34189 69664 15284 42125 82793 07042 00789 97030  
65607 19473 39435 96056 06403 35277 95055 44575 38070 24047  
16378 64998 41594 10319 99096 75926 85530 89674 60168 32322  
70650 70733 41484 12666 09453 91449 85137 64020 95222 83170  
47454 40933 40334 80885 43980 99140 88474 03103 42615 29979  
30482 49788 47082 46464 78486 91819 37907 56968 78033 50368  
63115 87430 62895 89670 95816 38040 82230 71609 00871 85326  
54804 45554 77832 65606 29944 69195 00000

Link 09501 Pacific schedules

Many late starts in December.

**17532 kHz, 02-12/03-12, 0100 UTC**

11100 09501 00000 02003 01829  
56790 45459 57064 34334 31667 72106 62436 76083 85867 25364  
14899 43766 23700 74403 73458 73212 03289 79748 65231 97438  
51903 63662 06092 93641 19663 72417 80792 27551 20056 72649  
93494 49836 30718 48990 24649 24247 52892 95144 55158 92183  
53034 15619 43762 03381 34965 80281 68587 67389 16042 98941  
68789 05548 05765 08133 47232 08129 10260 87297 20140 26351  
11087 46546 24663 53941 91790 53189 20281 77930 10651 89229  
45006 03383 43060 56990 12292 81732 41964 75086 59619 97422  
89811 31906 84665 92534 40440 88804 30022 34091 74345 50188  
02370 53721 15766 42688 37078 14379 85016 70593 44144 83801  
84521 39748 96419 19386 41969 67093 46060 94189 59041 18034  
80133 18719 39136 38836 51325 38222 92538 76221 44685 10140  
42475 01361 66335 91434 80467 80448 65102 90463 44465 59051  
22982 63087 18142 52402 75402 57710 74847 58854 47204 38932  
14602 38653 15275 44499 67616 25237 33795 55242 62732 61241  
83005 82697 84263 76396 27456 04081 65629 49512 94662 99321  
93267 21724 10105 69829 19217 53205 49522 43685 05841 40514  
94421 96955 51115 36785 01750 45795 67915 41926 23663 89043  
03180 00000

11100 09501 00000 02004 02029  
18765 82919 21891 94094 98610 47478 92336 89561 17050 69704  
76178 85109 40426 34611 39954 95815 31122 64044 17586 89706  
96330 04307 67212 65655 46307 61129 64834 15359 73017 36706  
08215 36596 85147 48462 29472 89928 60388 34246 39797 16058  
00950 73638 54744 56007 03232 80059 73518 41325 77593 43366  
10709 46499 79158 27622 03901 20757 35588 53736 45602 41458  
82774 21648 12926 56248 44372 51751 93459 06175 16117 50245  
30773 46942 40872 28097 37980 10510 85327 28308 52815 74191  
54304 41164 32644 29482 03587 12168 12857 67765 37233 72324  
77079 25105 00293 45491 12631 53314 02873 12452 49682 09470  
36489 36428 07536 81079 68640 79697 96479 89082 26546 66012  
48633 35857 05968 68511 76250 90451 66089 27805 80885 28201  
96347 29920 61889 66923 66184 98799 97649 66892 93643 83042  
98027 86764 93756 41564 51421 12648 92642 57871 14898 02504  
18279 37643 20824 13077 03861 69292 98448 01514 64701 52208  
33853 18897 34599 22359 16720 37847 72624 29949 47366 81395  
76243 48813 02451 45323 61735 22231 82827 31135 97825 74863  
91952 31867 03485 45484 18301 37919 45823 20204 20225 55088  
99017 70861 36688 52001 50217 28292 72320 79124 63351 45130  
30223 26547 36793 27867 90966 12722 15805 42821 61215 21344  
04200 00000

**F06a: 17532/16351 kHz, 04-12/05-12, 0102/0117 UTC**  
**14428 kHz, 04-12, 0132 UTC**  
ZFD\_39 (1536 bytes) 44400 09501 00000 04039 00009

<b>17532 kHz, 06-12, 0100 UTC</b>	Undecodable null message
<b>16351 kHz, 06-12, 0110 UTC</b>	Undecodable null message
<b>14428 kHz, 06-12, 0120 UTC</b>	Not heard

**17532 kHz, 09-12/10-12, 0100 UTC**

11100 09501 00000 09005 03229  
44010 75530 44668 20613 39557 94950 23156 84748 42436 38992  
84860 67073 54609 60312 82302 51359 75767 36539 74493 62029  
49881 71776 78219 39349 34897 13838 97949 07683 37765 98132  
89032 10252 81986 54158 33887 08834 99870 35521 35870 71847  
66679 59430 60502 99242 18864 66609 78753 57655 23561 37544  
92056 24247 91553 26026 43755 62674 50872 95909 46654 79629  
23227 72038 81388 35378 70466 41260 45259 06739 03233 64482  
56261 25953 69023 85702 41971 43851 61821 48941 67974 90793  
20509 59029 85550 33789 08228 47176 03266 53245 89886 27267  
12191 87790 50008 53809 19413 20593 18079 17486 69541 05625  
93626 39244 58881 57306 88175 48850 71980 51961 26292 58857  
95218 14532 72897 69925 87139 88982 79040 68418 10208 15833  
63307 02233 53678 65256 71073 45775 02267 99184 78768 90051  
30306 60850 35346 18780 26088 15213 58158 56479 76054 88697  
25398 99471 63548 81690 32327 65729 61801 52219 03444 24506  
25849 94274 77810 91691 13049 59185 09704 01832 86917 93504  
51790 92733 83938 91836 12999 63623 48056 88038 08304 92756  
62530 33248 42575 25459 33841 34150 95707 68499 07328 49950  
01200 51754 19266 71467 35385 43095 15045 30794 59489 27434  
88148 14966 81710 85871 19634 82066 31503 35871 22772 03214  
63258 18413 22560 78860 31570 43057 24785 02858 05264 26856  
54320 72692 12385 88041 67353 69371 33335 80451 67222 55364  
84334 79602 78556 64045 58412 56367 59403 79088 16091 99183  
56032 27228 42981 70739 30104 32849 16444 10067 12883 07819  
48533 15982 66196 75021 97387 72809 54815 49010 64273 04337  
59951 22239 18455 66918 88547 30281 17086 17685 58066 94509  
12308 18782 61449 65637 62742 63592 41937 16586 91568 35850  
32447 58104 58363 37622 39182 75577 36907 47061 74168 10469  
16129 91886 66411 34823 66379 49525 06342 92274 38239 09851

03260 04003 86009 61453 60446 63057 33126 87388 97648 65509  
21629 81332 75605 51846 12917 20086 02318 57065 31959 53362  
25743 92895 72139 96799 42598 10586 02950 39130 77973 17689  
09320 00000 (December 9th)  
05320 00000 (December 10th)

On December 9th the serial-GC postamble mistakenly contained the message date in place of the message serial number; this was fixed in the repeat transmissions the next day. (PY)

**F06a: 17532 kHz, 11-12/12-12, 0100 UTC**

File ZFD\_40 (1536 bytes) 44400 09501 00000 11040 00009

**17532/1635114428 kHz, 13-12, 0100/0110/0120 UTC (0100z: Slow FSK/20Hz)**

11100 09501 00000 13082 00049 00000 00000 00000 00000

**17532 kHz, 16-12/17-12, 0100 UTC**

11100 09501 00000 16006 01699  
46201 78028 19548 05292 80915 99437 48498 73133 03451 68120  
68718 42153 07573 81007 80365 65646 97324 21173 88142 88784  
81839 25677 09253 32131 11671 60921 18951 63146 55047 97721  
94628 60363 37522 03267 44372 99930 93426 92161 30930 19206  
02586 03743 27033 37083 10723 97847 62990 35754 56989 86225  
52518 33574 57066 41793 07719 03735 15269 52891 79169 18424  
64087 14764 82031 23158 54614 75427 94145 70979 46282 78114  
37029 71208 69359 67499 75724 32430 58633 51870 98429 04403  
81725 38454 61856 48589 10474 84066 13245 91980 08814 28286  
24973 43913 35607 01334 02711 80556 85844 23846 53037 26774  
18671 40732 21470 90018 45654 56301 36850 25985 77757 62841  
22999 40674 54432 79848 63607 58575 03281 46090 31285 11651  
03719 31675 16701 28809 53089 62349 18764 30547 58642 73167  
81774 58464 03841 33762 90490 94323 62414 12373 59030 48350  
58610 70834 74575 21458 97069 07712 81781 71086 10767 91766  
18860 35341 00461 52938 41255 95122 64082 23042 93849 78926  
39499 43350 17653 40013 09104 81263 01891 06167 00000

11100 09501 00000 13007 01869  
29733 48868 67632 05031 75663 00757 79563 33665 96448 56339  
33629 74113 96052 75060 00172 18680 13999 19552 92423 08899  
09788 21472 14456 69000 98975 05646 00619 96892 76848 52192  
44938 04860 90634 01325 43875 27143 46184 30524 00916 36611  
60070 58750 66404 37700 93021 57401 11076 27809 25653 72693  
56712 44336 62414 89158 12366 39552 74701 88934 89590 50495  
19056 86554 95106 56063 91416 43906 24356 38512 03326 95048  
04361 91526 91059 35596 59347 42068 93598 56320 97551 78175  
60384 25696 42665 99908 74799 51045 58330 35628 04312 72995  
39162 90794 13206 72916 66690 21471 98863 98035 53691 49722  
37504 33920 25336 63097 50342 79004 10590 65378 26093 00860  
42302 70791 60759 78886 89428 58855 00641 63125 69817 32068  
99512 03861 17000 43608 25888 31722 99422 87251 81322 92949  
15561 66669 15699 69537 13342 86319 50405 38914 07328 31105  
45375 52871 92091 26983 70905 40410 75214 99729 70200 64207  
78356 74025 23575 85377 79827 80068 50253 16231 97101 59888  
08705 65695 32707 90561 81454 07113 31939 66504 55299 23077  
25818 08034 32878 07022 57748 88388 36515 26220 17296 96395  
90302 75907 29542 76968 07184 00000

Strangely, message #7 is dated from December 13th, which earlier than the preceding message #6, dated from December 16th.(PY)

**F06a: 17532 kHz, 18-12/19-12, 0100 UTC**

File ZFD41~1 (1536 bytes) 44400 09501 00000 18041 00009

**17532 kHz, 20-12, 0100 UTC**

11100 09501 00000 20834 00049 00000 00000 00000 00000

**17532 kHz, 23-12/24-12, 0100 UTC**

11100 09501 00000 23008 03509  
05245 59542 90743 65169 53633 23860 70594 87664 41994 43404  
48722 38833 92966 36333 15699 45439 84886 91850 80215 39286  
93545 47788 00738 34263 71172 54220 47343 54264 79793 09055  
23416 60432 21189 76534 01900 51149 30608 24582 55783 33224  
26448 41934 87511 87707 33072 20994 87011 78770 18968 17352  
73025 79087 17414 21892 97416 10169 21864 06447 17168 21058  
73217 28912 63730 53857 81180 08783 64433 69501 46886 09028  
95625 32223 78981 85256 72242 76153 20352 88105 03490 02477  
27681 29781 69330 80601 71033 50709 97448 51765 45634 47211  
45403 58521 13053 46156 17636 48541 13967 37524 72033 26170  
19693 00818 95723 50178 14671 86252 54807 01132 27107 36679  
47689 66840 49931 61160 16725 19304 19285 96142 97841 81597  
42714 15173 12848 08145 94256 73078 34096 26795 18609 95559  
76199 16165 11562 50134 94492 16666 68904 59361 94909 98664  
20953 42289 84977 36203 94932 95068 20617 59732 72360 46655  
28419 86275 33650 50554 08114 50483 07102 98534 44884 84993  
64477 67252 86247 23553 30345 33724 63162 25327 97381 20586  
60068 43837 64817 57071 63537 88971 42214 66650 44227 55488  
85765 17274 51815 16470 59297 95139 27622 05153 37170 87941  
64588 33574 91258 88526 69302 21468 29203 54895 05771 33863  
76116 87493 25612 50799 16939 09724 14362 17614 41619 62614  
08587 49236 60319 49589 63475 86914 80826 92276 75610 30834  
65358 83280 90609 97035 08950 46870 50305 72104 06610 43518  
59173 64040 01435 79212 74682 72758 30871 05509 51257 28660  
13300 21227 92543 72700 42151 11752 91659 76406 79718 86874  
64127 25267 67875 03093 03159 13940 97861 81334 12005 26720  
06352 56025 93033 01686 89974 16433 98234 01991 55477 26250  
70841 42704 47722 32321 32754 46671 22703 98477 97440 27804  
57769 25406 13032 25256 16241 42483 65261 36912 08616 82531  
94967 25634 17529 75412 09831 96690 78686 21409 95035 69829  
34936 30333 52547 94401 05667 37290 23687 80999 38732 31042  
74701 48029 37084 55904 49999 06669 77290 73120 22755 32640  
62147 92637 97567 98228 74551 11238 44855 63006 24834 17955  
71664 46673 08737 52706 58616 32471 18223 29091 17628 74597  
72305 57284 50140 08065 60082 27969 10514 84434 08348 00000

**F06a: 17532 kHz, 25-12/26-12, 0100 UTC**

**F06a: 17532/16351/14428 kHz, 26-12, 0100/0116/0131 UTC**

File ZFD42~1 (2048 bytes) 44400 09501 00000 25042 00009

**17532 kHz, 27-12, 0100 UTC**

11100 09501 00000 27009 00049 00000 00000 00000 00000 late start

**No transmissions on 30 an 31 December.**

Link 10053

**12209/9363/8153 kHz, 01-12, 1530/1540/1550 UTC**

11166 10053 74523 01001 00049 00000 00000 00000 00000

**12209/9363/8153 kHz, 08-12/09-12, 1530/1540/1550 UTC**

11166 10053 65749 06073 01709  
55582 03832 36562 54585 35306 51518 88357 28521 62022 80097  
48228 32671 77238 75130 46646 51212 87003 13110 95670 45016  
25453 98328 88758 28520 87148 47005 55920 28023 24850 01139  
65287 23939 29436 88831 54236 60006 57010 63135 91746 19994  
77335 80483 20721 19498 57199 64298 48443 61239 32748 04128  
81296 55752 42073 81501 90382 35709 18516 18956 38339 48611  
51236 26938 77757 85862 79568 14978 56349 99471 42610 05546  
86925 27541 41697 77110 83851 44312 17007 78188 52679 31816  
06129 45493 13776 38744 68826 13488 29809 85893 52673 03032



87269 09951 10521 84078 36383 97408 43752 23915 52564 35489  
43142 42927 26169 41051 52601 87038 85290 37815 91636 47685  
51102 10164 78571 24706 52454 57489 58882 86649 52015 51189  
00105 15305 55792 18525 59366 84536 59158 62462 56751 41959  
36397 83428 04813 52931 68255 22964 44056 33336 23489 07503  
79019 42935 30532 41221 22858 62714 92219 16773 98068 17333  
16865 69595 91541 19138 99154 05602 06677 53778 65350 48611  
23616 01347 50544 77234 88978 79489 93544 95626 73168 00000

**12209/9363/8153 kHz, 22-12, 1530/1540/1550 UTC**

11166 10053 32147 22001 00049 00000 00000 00000 00000

**12209/9363/8153 kHz, 29-12, 1530/1540/1550 UTC**

11166 10053 57138 29001 00049 00000 00000 00000 00000

**12125/10575/8131 kHz, 03-12, 1650/1700/1710 UTC**

11166 10053 32147 03001 00049 00000 00000 00000 00000

**12125/10575/8131 kHz, 10-12/11-12, 1650/1700/1710 UTC**

11166 10053 97568 06077 01709  
75316 14580 49428 47395 20507 82960 27526 22879 04429 42903  
20365 72504 47812 29461 27463 32728 35566 08614 95609 51880  
39177 63834 89394 81286 34355 00367 72811 62883 52010 07591  
72163 83446 31584 31560 16252 43108 76160 89471 38228 61598  
80172 31263 87053 30921 79812 43561 05720 08916 97225 49100  
12984 43465 00396 53116 28812 10329 89015 46818 74256 71461  
76438 20886 88212 33317 27963 28900 61268 76657 74807 17518  
02079 20130 31648 82160 38004 08023 91026 59529 08369 02429  
43252 86041 85621 43096 89421 99049 48479 25448 89477 50926  
77459 32834 24108 20346 43921 31297 14820 79233 40992 80407  
15752 79575 72542 41783 06136 93713 45788 31551 40814 50231  
80050 32072 66290 91852 50333 36250 26142 09850 76752 29765  
86641 48235 60971 94350 10442 04584 61901 14874 69553 06459  
85197 49065 08650 41257 09442 35715 30857 11733 67935 80306  
15076 23939 96483 16553 32353 26830 35615 89812 94917 76175  
44026 05790 68335 53280 51893 99314 79903 22642 66227 74665

**12125/10575/8131 kHz, 15-12, 1650/1700/1710 UTC**

11166 10053 18930 15001 00049 00000 00000 00000 00000

**12125/10575/8131 kHz, 17-12, 1650/1700/1710 UTC**

11166 10053 12547 17001 00049 00000 00000 00000 00000

**12125/10575/8131 kHz, 24-12, 1650/1700/1710 UTC**

11166 10053 32147 24001 00049 00000 00000 00000 00000

**12125/10575/8131 kHz, 31-12, 1650/1700/1710 UTC**

11166 10053 74523 31001 00049 00000 00000 00000 00000

Link 40023

**25523/20989/18751 kHz, 11-12, 1015/1030/1045 UTC**

11166 40023 12457 11001 00049 00000 00000 00000 00000

**25523/20989/18751 kHz, 25-12, 1015/1030/1045 UTC**

No transmissions

Link 60070

**9489/7615/6983 kHz, 03-12, 0030/0040/0050 UTC**  
11166 09197 60070 03001 00049 00000 00000 00000 00000 (link ID in wrong header field)

**9489/7615/6983 kHz, 10-12, 0030/0040/0050 UTC**  
11166 60070 32147 10001 00049 00000 00000 00000 00000

**9489/7615/6983 kHz, 17-12, 0030/0040/0050 UTC**  
11166 60070 74523 17078 00049 00000 00000 00000 00000

**9489/7615/6983 kHz, 24-12, 0030/0040/0050 UTC**  
11166 60070 12547 24001 00049 00000 00000 00000 00000

**9489/7615/6983 kHz, 31-12, 0030/0040/0050 UTC**  
11166 60070 95431 31001 00049 00000 00000 00000 00000

Link 70059

**7379/6774/5463 kHz, 02-12, 0500/0510/0520 UTC**  
11166 70059 96521 02001 00049 00000 00000 00000 00000

**7379/6774/5463 kHz, 16-12, 0500/0510/0520 UTC**  
11166 70059 18930 16001 00049 00000 00000 00000 00000

Link 70202 (Mon + Wed: F06a, Tue + Thu: two F06 messages, Fri: null message)

**11046/9065/7479 kHz, 02-12, 0700/0715/0730 UTC** File 44492 (binary contents)  
**9178/7624/5789 kHz, 02-12, 1200/1215/1230 UTC** File 44492 (binary contents)

**11046/9065/7479 kHz, 03-12, 0700/0710/0720 UTC**  
**9178/7624/5789 kHz, 03-12, 1200/1210/1220 UTC**  
11166 70202 91462 02093 01839  
18455 78755 36069 05326 08245 46952 90760 34743 72139 35532  
04494 84020 53918 82997 42789 20879 67740 12958 62739 00965  
17798 51120 91685 30006 52816 16593 77482 83870 10127 60938  
77528 22482 28958 53422 78757 58505 37665 35893 65770 66775  
44566 95719 79298 45366 87083 30243 32195 64271 18872 01163  
75120 62614 39617 02305 29132 80327 97210 89205 27355 35252  
16959 43948 32916 81574 37546 73693 25342 10555 58412 66334  
72596 79475 28246 51726 30958 79748 29286 41910 39902 80126  
37100 48783 04208 05941 60546 02650 80445 40316 91596 20084  
10057 58298 19712 94547 66193 29824 90448 08207 06522 52479  
13004 88361 49168 99980 46361 56959 13999 97313 18746 46600  
96414 58471 60060 81490 65858 47729 52008 46771 06210 50388  
25564 94663 40273 63933 60511 60869 05522 45536 66704 89666  
73310 76844 51769 91121 28724 31990 04905 78885 53264 59767  
51494 61977 77552 15895 58200 89018 96241 06327 93238 68348  
62320 27525 71511 12445 03001 14647 39296 80108 24376 33584  
78167 14838 97034 77777 32852 02827 39816 55764 92683 99036  
43907 80377 81378 94766 04445 95549 34778 25165 51840 01644  
71285 93181 00000

11166 70202 35914 02094 02079  
58438 54907 79832 48338 90186 20557 25724 81548 52640 03020  
29942 66741 22052 82076 58934 48919 62282 46235 76321 26528  
42293 98981 67863 45056 47891 36213 22393 70409 92385 18300  
85881 28028 55866 85218 30843 18640 07781 88185 08257 46632  
92498 36233 74198 21947 82554 81164 08363 21450 29248 89325  
66669 20716 65304 73627 35140 32151 39263 84267 77231 10414  
86300 81569 91810 11046 65158 39401 23966 13273 15881 52584  
95833 42894 18035 46757 49638 56218 54104 14106 20119 70958  
07755 23420 78542 55049 51642 77899 15488 09306 04465 19148

54581 04867 61935 00805 14385 61366 31370 80236 60605 76756  
24583 01731 15836 44737 88756 69638 18995 20714 80000 34891  
51663 22234 09265 43331 73501 74828 15310 19304 33942 39202  
44413 82932 52330 80710 41495 24529 83716 67062 82371 84566  
12477 05173 01795 12662 40955 53123 96986 03986 65311 68156  
11354 36575 55765 76634 28052 57933 83418 76917 28121 94411  
60853 11086 92833 81761 88679 66448 54997 40326 25235 92769  
28843 43299 21610 46165 73235 51478 89197 95581 67859 12972  
91945 52830 07087 51273 80508 12075 41206 90162 10478 09740  
19700 88854 11881 40766 16270 85836 02141 92145 40271 74845  
59678 79688 64278 61401 00346 98939 22439 73345 23880 26201  
59321 23829 22566 30584 33936 94205 00000

**11046/9065/7479 kHz, 04-12, 0700/0715/0730 UTC** File 44495 (binary contents)  
**9178/7624/5789 kHz, 04-12, 1200/1215/1230 UTC** File 44495 (binary contents)

**11046/9065/7479 kHz, 05-12, 0700/0710/0720 UTC**  
**9178/7624/5789 kHz, 05-12, 1200/1210/1220 UTC**11166 70202 78459 04096 01739

30519 67232 14529 29449 20186 99312 70906 77434 21756 71135  
28685 53704 10204 99932 60823 32013 74098 02544 96510 58274  
17888 50606 15882 17916 67416 41864 25312 06063 89590 42277  
86701 67739 62153 78614 99209 00285 54484 86232 56868 35154  
05379 41702 30504 41308 08737 35003 47425 17370 43095 60941  
67291 64736 05948 34506 77615 58841 38790 59829 57333 60741  
53822 07450 81873 36231 98245 79568 68172 74656 17103 67977  
83066 24625 00585 34345 63500 88804 26749 67568 21990 44983  
35586 97844 35775 85591 95368 72184 43105 92862 47230 21030  
95086 91834 38894 70672 36536 48367 83508 81165 14275 04357  
04514 14407 36306 67366 52478 62088 30299 96814 04854 88191  
74837 53954 84565 65731 01852 07790 58403 12409 93686 14158  
01121 54899 23228 10122 36200 76416 10540 90900 89220 27290  
94439 61494 14752 03196 42454 80212 82728 20769 47587 36275  
35226 45251 85350 28693 49594 49891 29475 38596 68869 11759  
49757 12216 85411 73678 40475 96692 88696 26964 52798 95899  
13220 94637 29649 38488 47415 19829 66437 75309 89562 89036  
46114 96171 00000

11166 70202 56139 04097 01979  
33034 03251 66518 22326 16395 75408 06312 27550 29965 61257  
29365 30899 82342 77402 61742 52908 02264 72767 49314 04147  
23700 97855 22785 04131 49185 65113 18294 78069 02298 55106  
27022 98630 05245 48175 72230 64916 42474 86271 37190 35831  
96271 94656 92417 60026 65253 18149 95671 69628 01716 51609  
63135 29909 28772 69360 35233 62107 23201 83204 85512 81584  
74966 83756 46023 18495 59328 44756 47648 13167 82494 95061  
98808 03376 86734 87998 50980 45702 25919 22772 24473 38153  
47392 97603 92896 36252 41138 99305 49753 79757 42168 58959  
05606 72231 97064 28401 89235 80610 30627 57190 51256 46995  
73551 74761 93595 29832 37084 07432 73300 16672 45578 84960  
54091 75705 62912 16354 04113 38250 73676 39585 63305 29384  
05098 74936 28856 88914 00611 36635 32137 49858 81039 82486  
05601 66634 54306 06172 63043 10158 59611 01919 41691 71996  
57032 56217 79534 44821 98459 46276 26362 71291 40828 49903  
11913 78601 87562 96502 19606 40850 69187 13867 39265 36429  
99032 50466 97290 92628 64980 77901 87706 34623 43173 03235  
52526 81049 44642 45855 84872 53350 30780 58597 53284 91077  
58596 97776 70660 90336 41700 71839 56260 07566 37938 23317  
64220 95831 99632 23764 76996 97195 00000

**11046/9065/7479 kHz, 06-12, 0700/0710/0720 UTC**  
11166 70202 78164 05052 00049 00000 00000 00000 00000

**11046/9065/7479 kHz, 09-12, 0700/0715/0730 UTC**  
**9178/7624/5789 kHz, 09-12, 1200/1215/1230 UTC**

No transmissions  
File 44498 (binary contents)

**11046/9065/7479 kHz, 10-12, 0700/0710/0720 UTC**  
**9178/7624/5789 kHz, 10-12, 1200/1210/1220 UTC**

11166 70202 74859 09099 01319  
51664 84863 35562 90822 92192 30569 35952 34794 35727 34497  
26246 36310 77439 33138 66997 63644 61201 33414 05684 93519  
42292 44997 32051 56567 58414 54133 40969 20377 88696 37401  
95000 71079 05375 38860 03865 79408 47829 59002 62976 62164  
73680 28974 18263 75037 66618 68469 49435 97701 05661 50773  
88898 97144 25520 23353 18503 80148 22778 57467 11307 70871  
87539 25206 10554 74466 65274 27417 63036 12671 78507 20946  
49050 42304 63072 18628 76109 92617 98597 60476 28628 82425  
37919 79494 90735 02961 65107 10555 84432 77389 36791 15787  
90265 32927 86476 24903 42702 46480 96536 13901 17410 49776  
67564 70584 52608 04887 39778 20342 71697 86108 46166 10611  
99338 29130 02057 77473 88182 33414 60796 42818 98431 28748  
90236 15507 97412 41883 49704 94978 71367 24220 72147 99129  
00000

11166 70202 24715 09001 02139  
59872 59150 34660 31764 59818 61495 45686 14553 67810 50513  
30108 03525 98054 84027 85995 08831 75300 30776 57017 23689  
15031 90133 24793 54899 19778 92399 04074 67514 46223 53089  
07954 79607 22796 79661 75274 68079 22449 54137 77432 71433  
20290 40019 46768 00462 90769 86977 93718 92783 24106 31723  
04938 72163 66634 18508 39548 98553 14773 87692 65738 19798  
17283 05820 04867 60929 65525 35627 75283 12013 76389 69438  
53039 00444 97579 74373 91678 58674 89963 22812 68308 23278  
66651 06546 48110 26297 93501 58061 84510 64820 80737 27390  
97176 59718 20377 87963 95032 39470 49132 69904 36482 10035  
41499 44202 44026 96688 62703 06202 15464 68776 36201 31852  
98863 83308 05416 05133 23486 08342 94397 40127 03856 12086  
97104 46147 59167 28671 49977 09370 15206 36506 67500 89414  
80975 10181 45452 54295 17227 31836 61499 02192 39058 72943  
27858 43479 19797 82433 75687 41437 88327 42113 75903 35105  
37074 75298 26117 92681 82801 19611 58364 68953 47455 99875  
47327 65142 51185 62048 23734 14647 34788 54116 22617 43092  
53708 64912 21124 76137 10831 56774 45571 93474 20213 52991  
52411 52454 18967 65968 12831 29776 69483 77058 55634 54690  
19160 03983 48121 32134 09842 16797 19643 79249 54167 88320  
57519 23715 20976 89983 30001 37336 97004 69013 15981 03323  
17028 01211 00000

**11046/9065/7479 kHz, 11-12, 0700/0715/0730 UTC**  
**9178/7624/5789 kHz, 11-12, 1200/1215/1230 UTC**

File 44402 (binary contents)  
File 44402 (binary contents)

**11046/9065/7479 kHz, 12-12, 0700/0710/0720 UTC**  
**9178/7624/5789 kHz, 12-12, 1200/1210/1220 UTC**

11166 70202 85961 11003 01239  
96720 11754 55507 05229 73663 65286 47247 84205 69451 46307  
50534 30534 45385 21540 75143 48827 78211 18164 49130 15170  
02435 54078 63912 71303 24977 29983 28444 64217 66899 56721  
99650 67093 11854 16309 81328 42528 65969 80086 08678 33987  
58846 32448 60678 96406 40347 73571 67483 01910 52887 99581  
05013 81539 83888 83604 93950 88977 28106 06132 45314 97170  
14502 08135 19807 63799 77354 65381 93112 26538 76300 07370  
44344 14034 94980 29339 09823 83547 72996 70774 69371 21192  
50849 58859 57327 65706 32554 40307 15431 41697 95619 50006  
29817 13300 03081 89917 19257 94180 97264 16673 66873 74823  
79984 61285 12488 53045 08848 29447 47807 78662 64365 55812  
81626 48264 67545 10731 67241 11018 52667 82864 09251 71440

24918 03121 00000

11166 70202 23457 11004 01999  
56308 97874 03314 36728 50834 61265 61476 70620 20754 38431  
11612 75142 74220 68161 12772 46118 68170 99173 03734 28388  
56558 25044 46402 76563 12910 90722 27119 05342 00629 37813  
51827 09055 89493 80810 96010 55143 41787 31490 95367 81249  
16485 13615 88133 50600 64957 35180 45011 45388 16603 10346  
47625 02827 77869 48282 01464 23564 93088 51082 94214 07151  
40557 87952 35460 94248 62325 37857 38653 20258 51096 17810  
31314 10066 42705 38993 04394 68590 87596 57902 36724 46814  
99743 14691 55519 87996 06447 75915 18829 83741 47450 23861  
30924 94627 96806 59633 26511 15066 05943 12214 84743 87088  
91345 70651 58952 92751 15318 81593 33034 79834 33239 79333  
40439 00532 05764 40563 06699 67819 99406 81025 01415 59182  
23932 36243 10672 22396 80008 93518 65787 63044 15550 67394  
89349 18464 14185 35755 44481 47798 64293 78757 98261 92863  
82048 87790 35244 89486 86898 36634 82011 34032 52927 32010  
28702 34787 84532 85726 58447 02898 89857 75581 20660 62539  
50411 87225 09098 85025 10323 54172 30662 76514 33661 38138  
75846 74023 03251 16906 26792 29438 59443 71883 63867 86182  
02252 92576 56731 78268 05316 40122 50799 06382 15111 37109  
85061 70715 33854 75843 02180 65230 09534 04197 00000

**11046/9065/7479 kHz, 13-12, 0700/0710/0720 UTC**

11166 70202 95431 13082 00049 00000 00000 00000 00000

**11046/9065/7479 kHz, 16-12, 0700/0715/0730 UTC**

File 44405 (binary contents)

**9178/7624/5789 kHz, 16-12, 1200/1215/1230 UTC**

File 44405 (binary contents)

**11046/9065/7479 kHz, 17-12, 0700/0710/0720 UTC**

**9178/7624/5789 kHz, 17-12, 1200/1210/1220 UTC**

11166 70202 10475 16006 01579  
69138 34378 81860 81010 86919 99726 67294 83946 92079 36020  
91745 73774 42251 07954 36388 19808 76263 45982 10013 23595  
64824 93456 53467 84854 58945 42528 87938 86651 34571 51018  
68026 04498 56827 57418 25533 69061 12339 36241 14920 37186  
83054 60871 96351 50893 60007 66137 17289 89057 20458 27774  
78542 41450 16854 00962 95742 59832 51041 85144 92155 65784  
32171 07297 83785 19965 41728 40841 42697 82477 54135 02393  
49499 19043 86352 93525 70930 32659 74923 79748 23471 25434  
03900 23872 08936 20285 32080 15954 32974 97184 93002 67026  
42414 23654 66133 58767 42398 84169 42678 66322 79237 38190  
34464 96459 99926 61486 99322 08239 24258 50456 81420 08395  
90468 94111 89956 38609 60361 43436 64690 96867 94836 32790  
01712 60087 35771 33052 37911 00193 55179 41190 17574 10853  
57603 35942 89542 87033 46658 54300 08381 24578 91673 68480  
37983 31994 55378 68074 81057 71632 68547 77053 82933 72452  
62567 60335 83112 81549 95846 06155 00000

**11166 70202 35941 16007 02059**

09347 50809 63976 56382 62711 98106 30080 71215 39584 01765  
73650 59498 53380 33717 53643 87477 67630 48118 98331 58990  
88896 89665 65647 10941 12907 68030 34095 61609 34852 53089  
97669 78984 59782 70648 63207 61294 74031 03340 73627 46941  
63626 26382 05486 96010 90592 32890 14273 10555 63118 28425  
25923 85832 60497 99472 97929 09691 98796 85528 98549 52281  
48188 09489 77489 13297 37868 46026 26553 18912 09522 32647  
53652 85618 05258 53104 18645 93146 00947 47868 04419 33652  
20919 31329 21676 29362 94932 20432 70834 35863 43383 04418  
09507 73225 01652 10374 98978 52142 19569 44263 28123 87279  
96904 12137 38208 15018 40833 51205 97002 57780 56305 25466  
95650 02120 05277 65558 66731 82780 95708 57559 46945 89885

86301 10379 32874 41469 17887 56465 03236 88523 07411 65494  
06089 44753 65463 75733 34411 58224 23269 72774 38496 67095  
80093 70309 48600 06620 07001 72652 06291 59601 67888 23684  
27911 67498 43751 71904 48619 44355 71099 06296 20426 60759  
30485 42666 62684 90002 46047 65173 88442 33631 82046 52709  
55124 68590 47299 44838 12963 83125 43462 26967 49621 93650  
18103 39450 54442 59752 08493 40302 50771 39536 87060 76210  
69775 52481 44441 41538 64205 42010 71064 30004 85541 54949  
23208 08724 72949 07203 00000

**11046/9065/7479 kHz, 18-12, 0700/0715/0730 UTC**

File 44408 (binary contents)

**9178/7624/5789 kHz, 18-12, 1200/1215/1230 UTC**

File 44408 (binary contents)

**11046/9065/7479 kHz, 19-12, 0700/0710/0720 UTC**

**9178/7624/5789 kHz, 19-12, 1200/1210/1220 UTC**

11166 70202 51674 18009 01439  
98806 51262 86328 65180 99910 15294 22769 47441 04763 73606  
16147 81130 95788 84505 63833 57280 24018 57499 60212 57069  
16614 09734 72631 00307 63030 15499 82674 20574 34459 22239  
59960 02957 16274 31504 60650 45324 58145 68277 67845 29071  
71517 87126 16065 10277 29142 88595 67004 67206 46343 44306  
28735 65100 48715 54169 35562 24186 55924 84178 30704 01851  
36324 58197 19003 24906 12046 02192 81829 32901 19273 64342  
71391 18390 53378 59473 26620 75126 53605 11228 77826 90092  
07001 90448 32317 40326 76256 73173 58153 80455 81178 66707  
08237 31909 88449 77192 51926 09712 89380 17121 06350 47822  
70342 76230 84618 08941 05556 04209 03122 89727 26932 78659  
15085 57371 50656 56755 62597 78435 65194 34020 64270 25939  
10412 58680 80737 75582 02492 75014 25171 27087 84350 94151  
11003 11560 06215 15745 54046 70827 66075 48956 71192 19695  
64683 09141 00000

11166 70202 15473 18010 02179  
41526 85509 96457 88506 71061 99207 60977 20833 29291 13100  
42883 86255 04129 67214 19645 33715 23259 89897 57572 92688  
98689 39307 13057 48134 45227 14541 81953 56158 02560 84829  
39298 11346 15657 10234 36539 01682 53134 52282 48483 12018  
68320 97988 87132 61999 32663 45687 24600 89412 96201 26119  
92297 14875 54773 57210 48585 48811 28643 55981 32058 26654  
82246 56023 42669 83198 39741 03970 17870 02066 76036 33424  
95958 01189 88001 39752 83823 40281 75546 04203 71270 61208  
87233 40769 59111 97212 10152 64258 93220 11922 08696 02973  
21732 54075 41973 04470 17560 38917 14501 07819 33457 92184  
39900 80804 81758 17630 22259 45508 56039 74017 84864 40697  
36842 72526 00980 94481 48675 30511 06364 05656 60477 42531  
98216 57162 46713 54621 50234 10137 51311 52708 98468 51943  
21617 01129 77673 96658 04553 92189 12828 61434 22176 92688  
95518 67170 68811 98356 99879 36951 96964 32139 17764 90666  
84180 47268 17846 59261 98055 21054 58335 67056 01577 50340  
07989 55571 65981 84549 55116 47283 83324 57276 09257 72773  
95940 02338 25221 09685 84989 65248 04185 06935 85264 46031  
51516 92617 18469 34323 96038 89041 62124 22696 00395 83321  
96323 09144 17220 26990 95492 24662 70799 63035 57366 46862  
68906 03829 86356 85569 74496 08365 73498 51314 91958 32252  
40175 42682 47600 48901 37792 10215 00000

**11046/9065/7479 kHz, 20-12, 0700/0710/0720 UTC**

11166 70202 79465 20077 00049 00000 00000 00000 00000

**11046/9065/7479 kHz, 23-12, 0700/0715/0730 UTC**

File 44411 (binary contents)

**9178/7624/5789 kHz, 23-12, 1200/1215/1230 UTC**

File 44411 (binary contents)

**11046/9065/7479 kHz, 24-12, 0700/0710/0720 UTC**

**9178/7624/5789 kHz, 24-12, 1200/1210/1220 UTC**

11166 70202 96385 23012 01539  
48820 03791 93740 38430 58883 82620 15919 16734 23678 54124  
16854 67292 49930 72904 49411 28726 77203 44069 50630 18736  
31476 59898 68799 88197 89374 89726 56628 05828 95230 33997  
85242 46845 98159 78395 58644 84077 01347 09040 33368 04952  
40727 74625 72986 02795 35248 06491 92171 15887 75904 32525  
69996 12714 45722 45865 37159 46841 87894 14313 66823 29858  
64250 41411 23755 95823 71232 15123 51450 55656 05598 05040  
01941 64901 96996 94063 37961 53313 49647 55504 62162 89692  
60271 11516 53072 80420 04489 33828 12472 25110 08858 72691  
53897 77832 50748 24988 86928 87349 53231 77438 76978 14776  
67179 85841 85247 52135 57758 76293 18554 90220 37501 79306  
43699 09214 13153 32787 46086 90495 38476 14791 37254 73089  
90189 92000 41031 03158 09253 94872 12985 50023 74661 55368  
72863 87107 01951 68231 54712 61271 83595 61732 04352 98955  
13494 88823 78907 22581 62711 74647 28080 75642 98697 81318  
61835 12151 00000

11166 70202 15268 23013 01759

09902 11146 98047 61577 77387 37488 19548 44088 95353 06237  
17160 97881 74914 66693 81020 66781 75890 96441 66507 39956  
80527 63720 74848 98716 46227 84814 08828 38796 35718 68652  
64529 72812 48102 65799 45049 42593 99220 64033 07122 96042  
24775 97688 76592 08262 04633 62956 93673 51580 31769 56333  
73928 44212 74274 78397 95905 32202 03861 70107 51383 84371  
89312 73804 19137 04932 78320 36114 48189 93461 16124 94928  
61464 06943 74411 17652 15793 03520 88913 82914 79197 72702  
29124 22921 11408 81669 48583 68634 58531 92375 89172 64985  
97821 29150 37846 48275 93482 01468 59238 02987 49448 11585  
52596 40171 70065 01726 06457 64602 64632 20508 49523 22893  
56719 13289 21165 49755 84207 66135 09984 54585 00995 58082  
33890 15579 16296 01390 60113 73546 32478 74468 88595 42625  
67368 77173 47198 80071 71973 63145 72168 82325 79544 28892  
72288 99531 46930 64295 00165 85702 74149 94227 79069 26716  
13126 65980 58801 13331 01520 62163 98974 51413 82593 43796  
03197 26550 97054 53253 52556 65251 57801 31765 11866 59920  
43524 31151 07101 13173 00000

**11046/9065/7479 kHz, 25-12, 0700/0715/0730 UTC**

File 44714 (binary contents)

**9178/7624/5789 kHz, 25-12, 1200/1215/1230 UTC**

File 44714 (binary contents)

**11046/9065/7479 kHz, 26-12, 0700/0710/0720 UTC**

**9178/7624/5789 kHz, 26-12, 1200/1210/1220 UTC**

11166 70202 19873 25015 01059  
46570 86954 15279 92951 06695 53028 51308 93482 71733 92382  
30120 53897 86339 31879 78967 50178 04033 82152 41239 25319  
45026 45519 09731 24423 15486 31002 95558 08033 17898 24937  
74908 54609 07241 90574 80800 88116 72646 95122 32064 91637  
49229 87671 16703 92964 89789 76432 71847 33095 51060 78734  
27474 53586 74191 42207 06081 63681 64168 60595 95509 73168  
97834 32640 37097 01894 15218 37463 96349 01876 73847 24893  
08323 52953 70744 44169 14894 17906 61775 59463 36117 67985  
33058 25658 42855 14796 04103 22805 22854 09452 67387 72729  
57477 94973 94030 86186 51261 22826 60283 14032 81494 69566  
74495 00822 60004 15103 00000

11166 70202 97854 25016 02159

73456 21777 71181 30573 81198 86767 22359 91696 83598 35712  
16937 39557 26166 06975 75819 99058 10356 67468 06784 50177  
16482 95993 64947 49043 02913 47934 19974 82723 73710 62231  
34707 81130 31923 96581 84913 34493 60705 01798 74825 89839

99463 71264 28181 24910 07199 26431 59429 22964 30252 24277  
54805 96887 16632 97683 17954 36069 44104 64659 59787 74452  
54247 67346 37283 03232 09645 26750 70872 76604 16419 24130  
95153 84032 79271 44989 22575 87439 81242 46596 24803 46798  
05361 34979 61451 82515 40370 62335 10862 48094 37733 80782  
82623 11467 12092 13398 16513 68468 02364 28480 97553 36874  
35681 27972 41878 04439 61340 85976 33066 29381 46970 98315  
13675 16740 54077 29053 61619 19060 35193 64935 06112 34814  
19775 13673 62834 03033 81071 07014 93038 17552 01131 94533  
16263 09334 76144 39092 31342 70285 29301 49878 25413 17029  
23361 14001 75594 18033 90110 12543 73023 32583 18913 32034  
23955 34985 71515 07264 07586 22477 15323 56385 95316 30255  
92310 94235 61118 02076 65775 34823 37704 89861 12096 18909  
98188 80742 49710 27623 67921 74979 22482 68052 96187 63208  
79651 41745 42454 76428 19554 32052 56856 07191 89296 71266  
59612 25412 57581 73470 49051 37256 02854 44058 92934 60516  
83980 01845 82775 14943 85624 74716 55831 50947 55524 54749  
14451 65123 75842 16213 00000

**11046/9065/7479 kHz, 27-12, 0700/0710/0720 UTC**

11166 70202 87451 27001 00049 00000 00000 00000 00000

**11046/9065/7479 kHz, 30-12, 0700/0715/0730 UTC**

File 44419 (binary contents)

**9178/7624/5789 kHz, 30-12, 1200/1215/1230 UTC**

File 44419 (binary contents)

**9178 kHz, 1200 UTC: not heard**

**11046/9065/7479 kHz, 31-12, 0700/0710/0720 UTC**

**9178/7624/5789 kHz, 31-12, 1200/1210/1220 UTC**

11166 70202 96521 31020 01219

74352 83552 34865 39690 38663 00359 31001 60091 35266 36356  
75795 07626 88299 66114 86514 65664 74840 51168 26558 04901  
91793 68203 15176 75657 36158 04147 71648 72553 47113 60336  
04880 26219 83352 32954 84340 01753 34118 61928 53291 08605  
87352 65468 70236 51567 03427 02437 89526 77576 67869 29745  
17073 97989 21532 46944 02084 91052 91643 45226 50779 14214  
72169 02995 73020 81005 26935 95206 97776 82153 13934 08680  
18386 55611 54266 80535 53536 35217 94146 01978 34901 32644  
33413 54588 57382 32335 18975 71334 52882 04129 26648 39467  
73548 63227 79795 87502 95429 32238 78231 23471 78481 84930  
35812 16627 43851 76440 50156 39799 54394 89569 52928 14578  
09343 51899 14136 26517 89074 03383 98855 02544 10920 20119  
00000

11166 70202 65872 31021 02059

96237 53755 46611 86264 31651 70378 28970 01589 62543 79300  
61415 80629 29999 18735 73954 43124 56203 92163 21771 28833  
34185 10790 66226 46296 90303 99756 74706 15815 17941 60321  
00253 11369 05813 05178 26921 31138 09350 09113 91794 51333  
38583 42172 19597 43008 60966 77545 30840 56553 42585 91338  
09447 03549 76177 96430 40780 90666 69405 77596 56022 85321  
91825 20095 43840 17732 03983 48892 15269 49107 17074 20721  
32760 60627 56608 36162 39327 42919 28522 63927 48724 90698  
11160 94541 82593 32285 21577 65607 65537 48658 29598 25831  
14018 61764 18064 30017 80060 96733 12709 82199 35664 47727  
30102 69107 08885 02067 17095 51150 07510 02372 80213 03112  
91265 51358 28418 21732 78505 89004 77694 42382 98299 96771  
90888 31997 23878 08558 51234 50475 48355 33079 93012 97714  
88681 17366 37778 88487 28751 06058 09582 22331 37608 76188  
27647 40643 23689 52142 99913 88178 11038 30483 65905 21126  
48430 69321 62347 28943 87345 21930 09976 62169 89726 19284  
44981 83364 51456 31205 43508 83390 52501 60821 12670 30208  
69648 52002 46497 42378 12777 14475 70265 04468 70606 96307  
21647 66524 76852 58433 42105 94830 32731 30923 76991 66113







93947 06477 27962 91229 20007 17225 50657 82985 37662 37288  
96931 79215 18404 15409 41924 87720 36751 76792 49709 94182  
22659 53903 71071 69781 93324 14248 26138 03118 06577 96063  
26566 29899 03029 87845 16969 58806 29197 12676 40264 17003  
58756 03260 56638 63696 54131 78633 70811 45215 35608 58459  
47288 90019 50149 75865 18288 67092 57105 74755 14038 56152  
73011 02522 70111 03115 42648 34114 91512 59242 28561 88393  
78181 27433 36228 22704 41613 64066 17055 16604 67280 09857  
16390 80703 02541 48152 58750 51528 74721 14100 87438 58357  
69069 03146 00743 72978 21247 52270 51905 78278 04071 92427  
05051 16633 13175 95610 64256 04005 81286 64979 17952 20715  
75801 41496 65850 14803 59352 25502 20569 78923 18045 36672  
01158 86720 87069 60784 60704 99608 28349 56746 15212 79897  
39934 22314 65929 71209 01825 41934 32328 32113 87901 65155  
37915 33924 98656 89046 16059 58596 94418 43054 28025 57649  
33745 99736 10409 58076 46689 59817 94144 26151 97606 84989  
62292 25091 17206 76918 38771 27500 08524 25863 25248 68538  
56515 77373 28348 50750 95942 90484 44395 36485 17249

(operator chat) SK

**16156 kHz, 26-12, 1300 UTC, FSK 100/500.**

**UAL: MFA Moscow wkg UAG: Russian embassy Havana.**

UAL UAL UAL followed by operator chat and one message.

RYYRY

11100 70103 62547 26185 04009  
99599 61148 83150 00238 24875 88239 51773 57135 18044 96217  
95996 68165 64057 87162 87808 76246 67434 08243 60984 14872  
93752 52959 86025 26581 33782 10527 85830 85047 67677 05589  
03055 75474 15670 95455 54956 12963 18709 17042 36943 03579  
27481 00710 60449 77742 35243 93179 36316 50740 91906 56725  
88456 89888 93820 36815 15842 93187 25678 15404 17700 09058  
47990 92053 77874 51890 58563 60075 51210 93078 73422 69875  
40405 32228 01606 96704 02751 78230 69283 54974 71234 94884  
66621 26359 23394 90762 15848 93840 28403 57994 83936 90912  
01799 89670 88367 64100 06870 30544 69382 48023 98657 40020  
00187 25097 91453 77020 47535 07287 35821 21716 64115 49733  
15988 13306 31210 07806 03603 59032 05035 37550 28775 33830  
57206 56792 96334 95379 68778 09070 64254 09968 78289 97586  
02170 8203+ 8+238 81375 )0932 79686 11447 50852 29139 43100  
31738 24952 45565 68443 42369 37039 97455 69053 70642 01769  
13588 41338 86196 80095 01999 77492 09884 84616 75789 86507  
04513 92407 25471 03177 04872 50693 61251 11774 78584 41109  
08747 60095 98214 98442 86516 80548 38853 95346 48884 27989  
86015 40606 00211 08973 96611 55187 12326 88206 39888 18706  
18810 54319 56339 61477 50775 82324 25668 33344 46381 64646  
73250 87078 57249 73225 03670 58326 16955 00686 48484 39388  
28384 75818 88527 28598 30858 72999 69496 63743 32991 90212  
60835 09617 22210 05376 31120 78991 86860 57659 38382 67936  
11859 69474 58813 93094 33814 65820 08290 63038 66555 45731  
88143 50893 33014 85332 79634 60422 64384 77499 00039 88754  
29714 37495 82314 25942 66445 29457 15270 64538 69065 93377  
02165 01388 94780 77244 37701 58802 74171 04055 62323 41326  
16556 28373 63777 37267 86394 62130 26194 51184 34490 74365  
40769 84523 69904 94529 54606 06584 83535 74159 84263 82998  
35905 64009 39339 53931 33866 66756 58335 79160 90614 36866  
66083 92250 99756 27113 70391 30986 38708 44637 53762 36270  
55615 23300 26211 36664 60738 26685 42054 60758 57062 44891  
02640 44564 46004 66816 36516 26111 69156 32619 80480 44441  
71997 96036 09945 85183 00520 51266 92055 39899 66701 04072  
29999 71382 43763 91821 31949 02105 77149 22143 23644 67995







**5469 kHz, 06-12, 1534 UTC, CW + FSK 50/500**

CDAP CDAP CDAP DE AIFH AIFH K

QSA2 QSA? K

QTC1 ZC ZVP K

RYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY

726 100 06 1525 1357=

726 100 06 1525 1357=

97017 56071 75097 56921 69034 95738 75806 57484 57257 10505

69662 38903 09801 67825 58375 20893 56214 64276 89889 95709

45794 53453 70913 37087 88666 68350 39521 19474 77688 24842

52211 89146 17881 99138 73541 68542 91412 72486 09589 69073

95861 92956 16778 27285 80739 69879 38614 73788 51450 49767

=50=

56721 80399 24786 47917 98853 47260 13715 81730 75765 50461

15292 50408 71164 86650 82559 32978 39550 82242 01619 21607

69116 06926 97554 73809 12396 21782 44368 18622 22197 79269

39368 91171 51889 82044 27866 53599 63801 81408 65246 32038

48534 40712 70772 06358 21567 19113 98153 51344 73441 85920

=100=

-1538

CFM NIL QRU? K

OK SLV K

BK QRV K K

R 631 1542 K

NIL SK

**5469 kHz, 07-12, 1534 UTC, CW + FSK 50/500**

CDAP CDAP CDAP DE AIFH AIFH K

CDAP CDAP CDAP DE AIFH AIFH K

CDAP CDAP CDAP DE AIFH AIFH K

QSA2 QSA? K

QTC1 ZC ZVP K

RYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY

729 100 07 1525 1357=

04626 38113 66218 93406 11814 01461 88760 59073 53187 00070

61352 87546 85191 70377 83313 02221 41206 60514 19964 35762

64595 01956 09739 59103 62270 90766 94274 97784 51426 57770

05432 64532 12661 25126 57710 37906 13158 53206 44100 43755

31222 47168 99327 18030 97409 64262 91544 90118 10845 55358

=50=

54726 78316 73827 21754 87563 21978 92594 38589 15417 13111

59025 34841 86457 09559 69510 42655 71693 34819 12757 46893

87258 39395 08877 10314 23610 57668 26641 47098 70857 79712

35797 87463 58915 27227 32739 61854 39900 80957 20731 27870

72465 34840 27929 12017 95761 09818 08047 58162 18122 06527

=100=

-1539

CFM NIL QRU? K

ZVP K

BK QRV K

K

R 785 1543 K

SK

**5469 kHz, 08-12, 1534 UTC, CW + FSK 50/500**

CDAP CDAP CDAP DE AIFH AIFH K

CDAP CDAP CDAP DE AIFH AIFH K

QSA3 QSA? K

QTC1 ZC ZVP K

**R**YRY  
731 100 08 1525 1357=  
38799 87452 39573 62413 48829 45137 99568 66804 25384 66627  
29701 76700 61147 90493 02032 71856 77549 63656 84790 70232  
53486 67762 33289 17594 17888 85110 38398 97593 02823 73223  
65274 35148 27978 97556 07089 35250 74521 15859 79886 87534  
33141 29877 06188 21306 49749 62915 35071 31048 74504 32695  
=50=  
45620 68251 00829 96120 19662 12493 13887 84731 93375 39361  
37226 45014 32712 52845 93033 78214 56370 12515 94798 04080  
70493 96339 78625 64925 43242 26844 91650 14847 83766 44248  
90214 43057 74039 27531 21517 35171 06248 88315 30955 00253  
49410 36663 78112 10353 80307 80736 09562 69848 33645 18543  
=100=  
-1539

CFM NIL QRU? K  
OK SLV K  
BK QRV K  
K  
R 784 1544 K  
NIL K  
NIL SK SK

**5469 kHz, 09-12, 1534 UTC, CW + FSK 50/500**

CDAP CDAP CDAP DE AIFH AIFH K  
QSA2 QSA? K  
RPT K  
QTC1 ZZC ZVP K

**R**YRY  
733 100 09 1525 1357=  
733 100 09 1525 1357= =  
733 100 09 1525 1357=  
51082 21823 91562 36373 72720 20476 32953 10414 71859 08555  
92987 11980 53351 68322 79576 47493 20731 67465 43070 15947  
34981 52123 66431 50898 35143 27032 06814 96800 16672 84465  
22158 67760 18899 29821 84873 25863 50765 72551 76168 10793  
09986 22320 98264 06953 22130 96187 49759 57290 28076 47252  
=50=  
57671 78707 74649 59890 04801 57892 27286 57447 11195 27736  
73066 33314 55174 74129 95027 67432 22730 38362 04713 31855  
76270 95930 16391 32191 39512 84381 05935 02018 15664 71800  
94167 47195 50343 86500 53519 10191 31559 21850 42099 59519  
78520 65097 13880 90188 14043 99472 34189 17436 17915 91821  
=100=  
-1541

CFM NIL QRU? K  
ZVP K  
RPT ZVP K  
CDAP CDAP CDAP DE AIFH AIFH K  
CDAP CDAP CDAP DE AIFH AIFH K  
CDAP CDAP CDAP DE AIFH AIFH K  
CDAP CDAP CDAP DE AIFH AIFH K  
CDAP CDAP CDAP DE AIFH AIFH K  
RPT K  
QSA3 QRU? K  
RPT K  
OK QRV K  
K



**5469 kHz, 10-12, 1534 UTC, CW + FSK 50/500**

CDAP CDAP CDAP DE AIFH AIFH K

QSA3 QSA? K

QTC1 ZZV ZVP K

RYY

735 100 10 1525 1357=

64399 85885 26656 79104 14391 01862 14943 82862 31026 61891  
40771 08286 59265 64063 22436 29709 04104 99297 06822 30937  
28981 50243 34775 14453037010 26212 95203 57671 93782 20687  
11514 76399 51771 02081 27608 04863 78421 11941 11280 50449  
77849 66363 64338 66060 37375 32797 86692 75904 49094 05001

=50=

25052 70559 45504 07219 65884 48941 36651 95160 20782 20141  
02610 27832 16084049975 10780 10024 14897 81594 90390 93181  
89159 16030 66555 25896 48798 98116 41859 78593 87932 47047  
61750 55198 93171 06185 56441 71897 75851 12821 81790 80618  
36683 77476 17124 43625 02672 77458 49709 09666 49351 72464

=100=

-1538

CFM NIL QRU? K

OK SLV K

BK QRV K

K

R 078 1542 K

R 078 1542 K

SK

**5469 kHz, 11-12, 1534 UTC, CW + FSK 50/500 (AB)**

CDAP CDAP CDAP DE AIFH AIFH K

QSA 3 QSA? K

QSA 3 QSA? K

QTC 1 ZZC ZVP K

RYY

737 100 11 1525 1357=

54413 90481 09284 57777 99221 96709 08641 96154 47365 01470  
16048 15607 80547 65392 93041 74422 53879 90472 25599 28677  
96392 46718 96493 30308 54505 74331 32981 44015 82143 60410  
49611 38672 92610 05408 08035 50513 77259 48725 11704 90940  
76091 57308 77694 73365 80980 39033 02104 38168 13895 26873

=50=

68356 30553 15847 49576 68168 60678 15642 49214 82189 92869  
64980 96365 17294 45576 27135 04783 85775 07335 16437 08267  
80495 91260 56743 46279 98744 44282 17258 06024 29095 35282  
37311 77816 24579 37739 17018 56374 83414 70353 18765 82457  
56559 32572 25568 13041 38124 80627 47314 44693 83031 04501

=100=

-1539

CFM NIL QRU? K

ZVP K

BK QRV K

RPT K RPT K

RPT ZVP K

ZVP K

BK QRV K

ZTH PBL K

RPT K K

R 967 1549 K

NIL SK

**5469 kHz, 12-12, 1535 UTC, CW + FSK 50/500**

CDAP CDAP CDAP DE AIFH AIFH K

QSA2 QSA? K

QTC1 ZCZ ZVP K

RYY

739 100 12 1525 1357=

36431 77244 47181 19038 93953 36968 62707 09424 88126 43748  
55140 47736 51843 54326 92426 27991 94711 95861 64448 82534  
14886 50562 96887 97404 76821 82537 17197 94951 16904 69121  
70874 16861 59088 77574 80070 45287 35933 34132 48176 24693  
09438 67307 26329 87611 87124 86969 46681 47977 81313 51312  
=50=  
61275 65153 82240 38747 73906 47878 23041 51898 47062 39224  
09992 55953 08824 17728 86604 03328 94785 14119 63965 68452  
33016 41975 99277 70383 56643 12368 79370 91310 00929 90020  
57924 23659 64001 21472 68562 47269 52744 38995 16938 06963  
42390 65702 77463 09110 62876 67485 94835 81061 25981 20262

=100=

-1538

CFM NIL QRU? K

OK SLV K

BK QRV K

K

R 723 1541 K

SK

**5469 kHz, 13-12, 1534 UTC, CW + FSK 50/500**

CDAP CDAP CDAP DE AIFH AIFH K

QSA3 QSA? K

QTC1 ZCZ ZVP K

RYY

741 100 13 1525 1357=

48796 47096 04820 50646 07524075347  
48796047096 04820 50646 07524 75347 50741 38869 58350 30116  
73325 00356 20604 83561 43908 05017 70025 82718 33013 71920  
08328 42645 31756 23816 86098 56960 99851 99355 10975 52153  
94013 09115 13418 72927 42952 70406 99011 51085 79842 81594  
43641 03163 96419 76374 87561 06255 81077 17054 54206 17447  
=50=  
92460 76813 30547 27652 00742 58092 70737 92583 93367 28595  
91666 81401 89372 09487 07235 08577 16075 87848 15752 27185  
08434 95454 36235 92486 29126 66496 92745 33270 80625 32782  
62196 05445 13707 43382 36220 75275 43882 48092 72742 70708  
95639 62719 27425 99590 96272 64436 42307 58921 96939 64843

=100=

-1537

CFM NIL QRU? K

OK SLV K

BK QRV K

BK QRV K

RPT PBL K

ZTH PBL K

RPT PBL K

RPT PBL K

RPT PBL K (in RTTY)

RPT PBL K (in RTTY)

R 048 1544 K

SK

**5469 kHz, 14-12, 1534 UTC, CW + FSK 50/500**

CDAP CDAP CDAP DE AIFH AIFH K

QSA2 QSA? K

QTC1 ZC ZVP K

RYY

743 100 14 1525 1357=

69190 56119 94142 88802 27928 62797 17838 98521 61576 95477

62674 54945 85278 26870 13262 06065 74941 41555 23062 19016

13251 45761 54548 60147 66165 59461 27444 51957 22398 35141

80019 57013 13270 65372 09468 49554 94495 56267 79297 27274

40306 34590 98669 13769 43985 83220 76028 66427 63521 66532

=50=

69777 45097 38530 52804 56929 18783 14282 25944 07243 42532

18801891161 57698 03598 18735 09752 16317 43071 24106 90969

77052 75163 47978 83312 55765 37543 62289 45651 91018 11342

89755 40216 70898 93661 77280 31285 66563 20574 24406 42900

20750 08126 60316 86943 36778 51072 09404 40454 31685 36120

=100=

-1538

CFM NIL QRU? K

RPT K

OK ZVP K

BK QRV K

RPT PBL K

ZTH PBL K

ROT PBL K

BK K K

R 173 1545 K

SK

**5469 kHz, 15-12, 1534 UTC, CW + FSK 50/500**

CDAP CDAP CDAP DE AIFH AIFH K (9x)

QSA NO QSY 93315 K

CDAP CDAP CDAP DE AIFH AIFH K

QSA NO QSY 93315 QSY 93315 K (3x)

QSA3 QSA? K

QTC1 ZC ZVP K

RYY

745 100 15 1525 1357=

070?4 74447 35426 50396 14200 97678 67632 0196

Suddenly cut off; nothing else

**5469 kHz, 16-12, 1535 UTC: Not monitored**

**5469 kHz, 17-12, 1534 UTC, CW + FSK 50/500**

CDAP CDAP CDAP DE AIFH AIFH K

QSA3 QSA? K

QTC1 ZC ZVP K

RYY

749 100 17 1525 1357=

83684 92824 21052 01494 71197 11486 86147 55958 47944 36886

27938 66904 79305 07193 15221 95875 69255 11123 82232 05036

54498 58535 19756 28751 35578 97592 26666 61427 25890 51948

27475 26208 52430 22394 01910 16300 12851 30872 84420 67296

82793 90921 95593 92592 77631 89808 48037 32046 36285 77026

=50=

21504 79359 32065 91096 62203 97291 11264 63311 47565 06627

49289 58999 00137 51205 54403 93175 84422 69259 27950 82434

18059 34243 73747 22767 60477 78931 34961 89724 00906 62838



759 100 22 1529 1357=  
 28940 11745 69069 64368 56078 55174 11328 35129 69187 07133  
 99926 07316 74929 95420 68179 87612 93315 11444 22116 23265  
 44653 53214 52783 40686 30064 78916 65120 69592 16714 25696  
 34830 22833 40874 84655 07178 70541 39524 76750 01091 69725  
 23430 40216 35507 09396 59870 14088 70133 47580 24596 29688  
 =50=  
 23021 03721 51194 65323 46795 44704 72775 00092 25456 02166  
 40441198760 16493 11521 8484.)46352 91255 65533 55906 51703  
 00904 96343 56501 26681 23613 28721 04105 81315 76128 34412  
 83847 39503 83705 48681 17959 88541 02589 41814 10700 27087  
 31428 52807 02150 09482 81274 41349 07262 33413 31858 05946  
 =100=  
 -1538

CFM NIL QRU? K  
 ZVP K  
 BK QRV K  
 RPT PBL K  
 K  
 R 241 1542 K  
 SK

**5469 kHz, 23-12. Not found**

**5469 kHz, 24-12, 1534 UTC, CW + FSK 50/500**

CDAP CDAP CDAP DE AIFH AIFH K  
 QSA2 QSA? K  
 QTC1 AAC ZVP K

RYYY  
 D763 100 24 1525 1357=  
 65743 86490 65110 70144 20037 63986 07273 78939 02413 60587  
 10925 80979 59698 19612 73416 90948 66050 53062 14195 91482  
 75739 33929 90597 76283 41971 47297 68233 38823 81352 13933  
 40437 77698 35880 21906 20976 28134 67602 38109 05703 74767  
 30728 56869 24887 24546 66136 71169 09073 03281 33641 36700  
 =50=  
 38872 76502 40367 86225 66842 19891 14913 38188 53889 89601  
 38914 32323 65066 59570 52343 42204 55576 90154 61167 82959  
 90346 68001 56625 31766 22859 73380 47373 96206 57419 96272  
 91796 88217 27656 27247 99432 53172 56527 10853 70257 97411  
 10274 72980 13886 89867 43768 45897 92940 31449 47255 03711  
 =100=  
 -1538

CFM NIL QRU? K  
 ZVP K  
 BK QRV K  
 K  
 R 907 1541 K  
 SK

**5469 kHz, 25-12. Not found**

**5469 kHz, 26-12, 1534 UTC, CW + FSK 50/500**

CDAP CDAP CDAP DE AIFH AIFH K  
 CDAP CDAP CDAP DE AIFH AIFH K  
 CDAP CDAP CDAP DE AIFH AIFH K  
 QSA3 QSA? K  
 QTC1 ZVC ZVP K

RYYY









**14843 kHz, 18-12, 1106 ITC, 4+4 QPSK 75/1000 LSB**

I53F I53F I53F DE UUG3 UUG3 UUG3

I53F I53F I53F DE UUG3 UUG3 UUG3

I53F I53F I53F DE UUG3 UUG3 UUG3

XYXYXYXYXY QSL 1835 BOZ NIL SK /

\*\*

MFVX MFVX MFVX DE UUG3 UUG3 UUG3 QSA? ///

MFVX MFVX MFVX DE UUG3 UUG3 UUG3 QSA? ///

MFVX MFVX MFVX DE UUG3 UUG3 UUG3 QSA? ///

MFVX MFVX MFVX DE UUG3 UUG3 UUG3

MFVX MFVX MFVX DE UUG3 UUG3 UUG3

MFVX MFVX MFVX DE UUG3 UUG3 UUG3

XYXYXYXYXY

IEC 98 16 ///

MFVX MFVX MFVX DE UUG3 UUG3 UUG3

MFVX MFVX MFVX DE UUG3 UUG3 UUG3

MFVX MFVX MFVX DE UUG3 UUG3 UUG3

XYXYXYXYXY HR MSG GA

0020 91 18 1218 1840

J92W---J9WS

4172 8529 9812 7159 3458 2980 2151 3290 0298 0001

9851 3086 2907 2957 3742 8467 3536 1926 5039 9332

7243 1481 9808 2498 8392 3229 9548 9574 2668 6983

7934 4790 7041 7401 3001 6284 2972 0989 8631 6503

7281 2381 3689 2953 2041 5106 6840 4654 1373 9479

4358 9241 3754 7223 2069 8580 8213 5079 7227 2446

7327 9664 7161 0693 0775 5748 1301 6808 4991 0834

5746 2586 3006 7049 8168 6556 0776 2174 7604 5081

6710 5019 0115 3538 5769 0325 3063 3172 0994 0487

3568

QSL? QSL? QSL? QSL? /

QSL? QSL? QSL?

MFVX MFVX MFVX DE UUG3 UUG3 UUG3

MFVX MFVX MFVX DE UUG3 UUG3 UUG3

MFVX MFVX MFVX DE UUG3 UUG3 UUG3

XYXYXYXYXY QSL 1851 BOZ NIL SK /

C71R C71R C71R DE UUG3 UUG3 UUG3 QSA? ///

C71R C71R C71R DE UUG3 UUG3 UUG3 QSA? ///

C71R C71R C71R DE UUG3 UUG3 UUG3 QSA? ///

C71R C71R C71R DE UUG3 UUG3 UUG3 QSA? ///

C71R C71R C71R DE UUG3 UUG3 UUG3 QSA? ///

C71R C71R C71R DE UUG3 UUG3 UUG3 QSA? ///

**19593 kHz, 28-12, 0431 UTC, 4+4 QPSK 75/1000 LSB**

XYXYXYXYXY HR MSG GA PSE NOTE CY

TV9=05=1230=1842037=40256518=022=052

QSL? QSL? QSL? QSL? /

XYXYXYXYXY HR MSG GA PSE NOTE CY

TV9=05=1230=1842037=40256518=022=052

QSL? QSL? QSL? QSL? /

N

7XBQ 7XBQ 7XBQ DE KCX8 KCX8 KCX8

XYXYXYXYXY HR MSG GA PSE NOTE CY

TV9=05=1230=1842037=40256518=022=052

QSL? QSL? /

7XBQ 7XBQ 7XBQ DE KCX8 KCX8 KCX8

XYXYXYXY BOZ NIL SK /  
1  
7XBQ 7XBQ 7XBQ DE KCX8 KCX8 KCX8  
XYXYXYXY BOZ NIL SK /  
1#-BGBXCVY

## **XPA1**

### **13465/12165/10265 kHz, 04-12/06-12/11-12/13-12, 1210/1330/1350 UTC**

412 412 412 1 412 412 412 1 412 412 412 1  
00688 00117 57168 57942 33947 57003 66985 55784 72661 64859  
71068 11516 98723 55355 58227 80035 71860 85396 84613 21553  
63131 42160 77057 08582 69841 00944 39812 91913 22452 94142  
49583 76564 25568 21568 19821 74170 69194 66452 90647 56053  
54703 34622 31472 10545 79564 74654 93776 03901 28108 90289  
02232 16142 96147 35982 34602 44384 65462 28298 60892 67555  
20691 56701 38795 61816 98166 67418 68724 17824 96675 66526  
89660 57440 52772 33580 70377 16893 24648 72930 75849 86364  
45768 04823 02084 18657 82858 26803 04350 68025 01401 75010  
15897 20400 57144 17993 08979 56165 21401 55345 78954 89745  
95522 32285 72263 27628 67210 51695 19041 95732 80173 45115  
41290 50553 54223 82542 64599 35776 52928 78964 70194 60453

### **13465/12165/10265 kHz, 18-12, 1210/1330/1350 UTC**

412 412 412 000  
03489 00001 00000 37663

### **13465/12165/10265 kHz, 20-12, 1210/1330/1350 UTC**

412 412 412 000  
02194 00001 00000 33663

### **13465/12165/10265 kHz, 25-12/27-12, 1210/1330/1350 UTC**

412 412 412 1 412 412 412 1 412 412 412 1  
04472 00130 67082 61068 24634 39826 89345 28339 19652 50222  
28307 63791 92467 72320 91914 07482 74297 04705 84764 52876  
00291 47588 18093 95201 53665 70866 71997 82997 70640 72940  
65069 80536 09866 64045 34025 93069 67927 64311 14036 38388  
69507 27701 64011 31356 81079 78283 86712 77910 71688 85578  
42506 59845 39472 19632 63399 29216 02763 41519 39241 08829  
12088 38796 09967 31591 83802 52169 23036 15690 22296 30163  
82627 84671 84102 01098 67954 51317 53754 01157 54558 89969  
94733 35625 43768 58860 78039 82805 96103 43607 92617 88035  
95278 20175 04766 64865 58077 34472 33299 77179 87530 35806  
32569 93736 53454 10761 74482 01557 05354 85188 53963 14975  
22797 05395 39881 43406 70605 53979 08849 77301 48470 41861  
81403 84556 48748 15805 71752 61207 64880 84031 30029 77898  
13832 54486 07052

## **XPA2**

11493/13393/13993 kHz, 0800/0820/0840 UTC

### **11493/13393/13993 kHz, 02-12/04-12/09-12/11-12, 0800/0820/0840 UTC**

00253 00101 69825 87056 68066 06462 77954 24864 67496 33810  
78666 91719 37387 14696 33888 34025 87377 43035 92070 70474  
66507 26837 92528 65101 04083 34947 30829 12450 55575 85858  
11630 05782 66045 76536 26333 31491 05327 60093 06938 72065  
95248 59579 28348 03772 40418 58781 68005 17614 61394 42430  
01221 43877 38687 25402 27070 40288 80104 99698 36889 36243  
54215 39987 11227 97844 07282 89131 62090 88692 35199 59282  
84915 39967 77769 18171 83107 11121 07506 77765 06739 93860

48271 75727 83560 13800 00593 20094 00664 78669 77236 14388  
28285 99151 62642 77598 24030 61128 14542 23300 20813 22892  
92876 85570 91788 50332

**11493/13393/13993 kHz, 16-12, 0800/0820/0840 UTC**

04804 00001 00000 37254

**11493/13393/13993 kHz, 18-12, 0800/0820/0840 UTC**

05899 00001 00000 41666

**11493/13393/13993 kHz, 23-12/25-12, 0800/0820/0840 UTC**

04252 00075 28361 73630 87097 83205 66524 43551 09504 84648  
26403 05038 18949 16839 91790 39127 77663 13064 45446 33285  
03770 42004 96284 17311 40845 23795 11460 35687 91214 72761  
03672 13652 60351 94712 71766 67413 30421 18100 99401 12902  
39723 91437 93787 80221 76932 52655 96912 23622 66410 60938  
07015 93621 54512 13241 55945 98543 84742 85439 68305 84796  
61978 55998 18396 42342 60330 82175 04066 60336 79056 52818  
38657 26016 25627 54994 58076 48830 61990 74207

**11493/13393/13993 kHz, 30-12, 0800/0820/0840 UTC**

00517 00156 13388 20541 41243 00042 66001 42325 76548 48050  
48627 61820 66678 24066 66660 57838 33258 80088 18506 08100  
22608 61430 62233 48330 31617 12081 83648 26626 52305 01011  
62858 43116 88176 04490 13776 66685 62860 00033 31068 56641  
27403 47076 08077 11665 55500 78263 06007 61821 21746 36001  
54732 10668 04580 63773 78743 57400 60648 80500 32463 58250  
25786 80668 83660 86180 54801 32853 06284 33336 47405 45793  
18543 86772 82336 53113 15550 03280 34996 61004 56279 29907  
56102 24428 99863 76362 50777 04847 00188 51850 44449 66630  
77715 06265 24492 08010 62313 71638 48166 78780 67678 83503  
20485 04666 01810 60025 60366 50186 11283 58825 15650 25166  
01625 92633 21949 64285 28644 64828 88143 21080 55812 18316  
03338 87939 84400 24842 93434 16266 59048 49230 51272 07813  
09227 76366 01388 29273 56288 73008 83801 57893 01163 10582  
87784 70091 07150 58700 88728 72325 65940 39360 87771 00861  
44838 64660 92103 03030 72312 81192 61994 24670 63226

**13562/11583/10281 kHz, 0910/0930/0950 UTC**

**13562/11583/10281 kHz, 02-12, 0910/0930/0950 UTC**

04674 00001 00000 36263

**13562/11583/10281 kHz, 04-12, 0910/0930/0950 UTC**

04055 00001 00000 33661

**13562/11583/10281 kHz, 09-12/11-12/16-12/18-12, 0910/0930/0950 UTC**

03800 00122 08520 18629 58108 20273 70790 54691 89161 23899  
06536 32814 28220 49978 83706 74962 88502 76909 39460 12623  
23842 07284 15542 85021 01207 95476 31660 84434 93686 86719  
15924 79210 78482 52391 91608 05761 91489 23320 05049 24004  
72939 05065 09115 05191 33068 38207 84756 36854 09478 99281  
97732 60956 86617 48988 74361 43548 94036 10332 02070 85614  
00523 44139 73500 84410 27794 52141 77690 17708 76095 95539  
60930 75927 13924 75510 18042 26075 94220 52096 36102 69249  
06842 31941 08129 44168 06555 03944 53389 91885 56515 11185  
08726 37974 91187 44842 65351 37433 94638 47835 63187 18726  
92072 45448 62173 87862 85524 30571 68199 79091 29055 07529  
27306 90934 95325 17822 53069 28474 97064 63357 54305 71752  
42651 55971 83491 76831 25730

**13562/11583/10281 kHz, 23-12/25-12, 0910/0930/0950 UTC**

00638 00061 82603 82554 92247 05111 87753 38045 74867 88003  
77771 69389 79856 57169 49151 95241 08949 64556 90444 99965  
67254 15910 62830 58813 79117 56233 16608 79361 33438 42243  
81059 48837 59905 41834 81193 44951 32146 38522 13295 34143  
63381 67192 07433 42203 05642 16222 61855 25010 54643 04340  
88182 21692 16612 64027 71589 73180 49498 05162 14600 46010  
24149 67512 31990 15013

**13562/11583/10281 kHz, 30-12, 0910/0930/0950 UTC**

02734 00001 00000 36655

**6984/5884/4784 kHz, 1600/1620/1640 UTC**

**6984/5884/4784 kHz, 02-12/07-12, 1600/1620/1640 UTC**

00201 00265 19036 78988 12182 32149 59263 93760 07597 45879  
34154 23847 53515 41056 70148 74206 26197 15848 39786 30310  
34999 41170 97174 26285 22535 57043 86811 10466 85615 36638  
32458 86279 48987 96112 90088 65338 79469 86445 81260 47883  
39284 43411 16472 65927 84097 78583 93721 97632 33350 90683  
66568 97325 39948 72100 12614 50305 90952 59619 90568 04285  
93237 58765 34060 57439 94884 67699 14736 19143 07300 53764  
07414 78827 44858 36619 91225 25011 39819 31011 54530 64022  
76880 70280 24322 16389 19859 27695 83663 34230 27086 00572  
86473 56938 95216 83405 06566 84355 94542 52641 51060 68191  
81552 11366 19989 91594 67797 36793 60538 20392 72452 89723  
44052 25852 67723 33659 59913 96718 96200 34291 06038 57556  
95035 06900 57429 08067 41640 48011 30931 19512 13456 60770  
53130 14198 52275 27335 79285 52894 77990 09342 71662 64764  
23124 90106 46628 41667 62879 52714 56225 79359 62054 16991  
48311 77637 67439 54113 83294 62608 22732 96592 68311 46363  
31634 20111 64328 46999 58949 74051 20855 65584 46351 54487  
63431 32076 87435 81887 27461 98877 45609 09260 97827 29955  
53563 55830 53805 39724 94370 22790 33643 95713 29635 79594  
52675 41458 79669 31689 69836 03050 08888 74333 55375 44382  
80914 15532 35505 03041 25446 72417 57031 10045 44940 99058  
63885 18909 38808 15054 19059 95437 65541 68247 18388 60283  
29241 16578 09852 47170 45127 94684 67488 92040 66394 21634  
36990 37776 81857 75532 55129 30380 22813 39601 86918 24241  
40648 63982 09011 70120 80619 13239 87540 01046 37201 31123  
51453 05258 57247 75991 12076 00450 88568 56799 52753 19097  
81494 11099 31844 31663 71063 84929 13706 56451

**6984/5884/4784 kHz, 09-12, 1600/1620/1640 UTC**

07076 00001 00000 34266

**6984/5884/4784 kHz, 14-12, 1600/1620/1640 UTC**

09278 00001 00000 36270

**6984/5884/4784 kHz, 16-12/21-12, 1600/1620/1640 UTC**

00316 00234 31888 48837 04855 17510 63225 75725 00716 38005  
92912 30653 83750 31557 62737 40555 08722 32094 33442 22129  
40007 31331 30001 15583 22580 26208 31220 03599 22803 84495  
00775 08568 86682 00068 07084 09885 57777 68183 44337 71656  
06003 41261 05633 63233 22588 59546 72266 37277 88282 81563  
52556 62330 82071 22488 33641 02284 48762 29968 20846 06157  
71538 81560 14388 35653 21371 84355 18833 76887 08466 24555  
38627 33664 11836 57088 65463 81167 00461 33411 51335 35537  
32084 27511 84455 01008 60813 68259 85663 14338 83531 53163  
81907 20342 78383 77887 26300 99386 42508 68088 86044 87741  
00816 78602 12357 64428 06875 38395 43506 88638 43814 58443  
63603 14442 77005 79008 56606 36666 00344 00921 08853 33220  
07450 22288 11380 14935 62741 35573 76052 37549 77206 38388

82744 46444 55740 00705 18310 11664 74456 06992 06831 50929  
69077 21498 84789 33299 22058 12821 65254 14466 55722 84306  
66766 70056 86035 82117 80368 86626 20773 44333 01168 04461  
52080 03172 49967 67309 46340 04557 00441 31308 08872 48452  
00348 26366 16522 88662 28368 81880 72283 46556 28555 99923  
70633 75538 30627 40177 82578 01011 17680 12162 44305 24720  
32500 47502 83864 41592 10692 31435 77388 18688 33607 20207  
68204 02808 20446 75011 17888 26971 17751 43360 45676 78213  
86241 68833 82770 82887 61656 58416 61602 67122 70704 66876  
66685 66462 12373 63411 82030 08136 46664 75247 41552 13133  
79932 39445 74666 16668 77411 00807 10014

**6984/5884/4784 kHz, 23-12, 1600/1620/1640 UTC**

09077 00001 00000 34670

**6984/5884/4784 kHz, 28-12, 1600/1620/1640 UTC**

06390 00001 00000 32667

**6984/5884/4784 kHz, 30-12, 1600/1620/1640 UTC**

00488 00103 65728 89435 80786 89678 85376 51750 73313 81436  
33351 32700 50720 07838 39700 73565 70623 32787 55108 10703  
61510 47992 40400 81475 76677 62789 80234 75279 22896 74400  
44060 06902 37370 18626 24917 98175 40329 54656 44766 89633  
97794 85017 46927 25592 17297 17530 71991 37637 36970 40997  
44496 00245 29367 95623 16053 77193 48453 27503 45525 71187  
50092 64350 93836 56870 61751 08040 53884 81069 37075 30980  
10279 01105 77431 06962 79632 66535 62727 07988 79680 88096  
61352 75184 51629 44868 15930 48350 25997 81151 74720 75832  
54162 99072 25168 41804 65982 46462 19465 54080 37928 59982  
69463 52674 24375 02411 31440 36347

9265/8165/7665 kHz, 1100/1120/1140 UTC

**9265/8165/7665 kHz, 03-12/06-12, 1100/1120/1140 UTC**

00538 00144 53741 37575 60155 31749 75037 27431 94324 87415  
99757 17226 90784 86775 32927 24413 47850 28079 56643 08582  
15744 62477 83811 90114 45541 18663 60207 98229 97700 21962  
77188 52486 83066 41917 30455 43988 50733 83106 70005 15349  
62223 82385 20445 10808 33742 46133 47948 91100 14194 79721  
21757 38605 33242 67211 55780 76048 76070 60638 00955 86713  
79029 88406 14414 68945 99917 81335 03325 72611 66152 88224  
18065 51474 34699 95506 39383 86460 28223 00042 68476 93688  
35349 66075 15069 45057 90644 80350 10587 37429 36382 76934  
76058 84516 80194 65174 52892 90186 35730 45668 29274 22338  
21538 18664 17217 13460 81697 11884 54854 07895 88446 73041  
00318 87405 45221 59092 87631 79008 06303 00157 98721 17731  
02787 59803 82258 25743 43008 36835 97853 85211 57559 07474  
04243 08238 60481 95392 14156 68193 12901 40007 40937 03122  
37185 10354 36974 62127 50206 05182 76000

**9265/8165/7665 kHz, 10-12, 1100/1120/1140 UTC**

06322 00001 00000 33660

**9265/8165/7665 kHz, 13-12, 1100/1120/1140 UTC**

07319 00001 00000 37260

**9265/8165/7665 kHz, 17-12/20-12/24-12/27-12, 1100/1120/1140 UTC**

02113 00099 51053 40753 00444 40053 18108 53139 52015 29281  
33808 72933 81248 42373 03868 62854 81655 75375 70007 74243  
70231 20958 87178 70665 49356 17388 41294 82070 10938 71074  
17104 40757 54063 56362 96580 64586 10571 08311 74212 94293  
22412 03767 64896 59802 38382 28974 49338 71092 25718 91857  
48312 90746 11815 00027 47987 52558 65632 82399 80632 51414

64464 42046 18376 04167 89140 95729 73392 61477 87341 38917  
80465 80043 89482 33385 89359 24471 05711 00629 23895 56080  
39624 78779 85007 13712 01161 74956 38197 57492 03443 53190  
43996 81397 85282 74144 24282 66524 60800 31926 31529 02419  
34207 52323

**9265/8165/7665 kHz, 31-12, 1100/1120/1140 UTC**

09153 00001 00000 33266

8184/7684/6784 kHz, 1600/1620/1640 UTC

**8184/7684/6784 kHz, 03-12/05-12, 1600/1620/1640 UTC**

01090 00166 24336 87953 73744 36416 35744 10583 58740 95768  
06265 76494 01308 00946 66205 65225 56071 51932 00450 90818  
46622 18273 69809 47759 30435 37714 34599 30009 25519 24891  
72663 94617 85682 67089 50134 33918 25473 57241 65796 76611  
36330 62382 22122 40968 21380 52060 10535 64784 77550 66888  
99462 13662 40631 07027 73435 77948 78178 66878 53734 16887  
56795 30936 39301 28213 71910 30956 58897 82698 39993 28292  
33825 95332 93714 51575 52892 54881 61278 73481 58996 13306  
46876 48893 39136 87058 79680 67270 53497 10737 01071 73706  
85803 02078 57834 31504 02616 61989 44694 50146 51894 27939  
06520 96200 81994 09549 85349 76284 03179 54887 25257 12708  
88593 90709 69347 47353 64861 10758 20119 31235 43763 91412  
21612 69817 58949 37675 14639 75637 72067 11098 31622 11149  
74173 57285 26413 04403 09393 22345 77031 27810 05418 39703  
65181 10063 75231 56323 82055 20151 32206 24251 15914 69329  
05973 31602 43541 55400 79340 25478 57957 19713 22204 96944  
72221 34703 43201 48500 15018 75957 50166 04664 12230

**8184/7684/6784 kHz, 10-12, 1600/1620/1640 UTC**

06065 00001 00000 33664

**8184/7684/6784 kHz, 12-12, 1600/1620/1640 UTC**

07280 00001 00000 32267

**8184/7684/6784 kHz, 17-12/19-12, 1600/1620/1640 UTC**

00733 00259 15807 79902 79289 25761 62022 56582 47753 08426  
46666 29612 75832 60504 97139 78154 19435 82029 23815 74137  
72974 90946 16624 04333 47700 91336 80012 56074 02764 22074  
58210 61543 29800 04820 87014 24712 93266 47166 74025 78372  
89017 02169 62680 88109 99133 09521 27867 50090 35765 31786  
82987 66777 50238 11740 29552 71876 38554 63069 13640 34090  
11608 69278 49509 73707 44680 11363 56119 04143 88888 38277  
51484 01508 93279 50923 22889 59071 81967 93268 68322 23273  
49444 57737 50760 62145 34798 49716 74718 75215 41464 81771  
94374 38763 94084 71055 39730 83781 69167 61136 98168 31191  
92079 64486 69020 87492 31493 14417 06272 37881 16304 26683  
05302 09315 43786 21745 76354 00404 00742 66862 00990 15339  
13973 30079 83260 22916 24350 93792 08317 63712 05866 37828  
58215 48872 40571 63042 99112 56431 65547 32096 40034 93330  
51528 37680 57550 93531 06157 21324 38107 11970 23240 32719  
69623 53712 72688 11439 11344 45994 30446 92134 04801 77212  
15882 92598 27509 09735 52995 75035 47969 48737 57059 58394  
49202 05826 48848 25473 77377 04256 91541 74494 66652 81037  
14826 94350 85431 57729 43050 19310 94792 07395 96747 18972  
75036 44509 50011 96641 47829 72992 18267 07367 42237 06974  
12517 53755 18085 37785 32796 41288 07560 43577 09994 59892  
16555 53440 81322 60645 91080 61356 71302 14830 62479 36832  
09323 18234 57182 83786 81896 07453 09542 41078 85041 73850  
37215 48458 36170 14543 78822 63816 27211 50967 20463 79514  
50621 31179 01591 13044 61597 24202 58130 05895 90259 30268  
67734 51516 19709 33897 71877 71158 64918 16761 81941 07812

07013 27001

**8184/7684/6784 kHz, 24-12, 1600/1620/1640 UTC**

08496 00001 00000 36271

**8184/7684/6784 kHz, 26-12, 1600/1620/1640 UTC**

05437 00001 00000 36660

**8184/7684/6784 kHz, 31-12, 1600/1620/1640 UTC**

02099 00090 89979 17468 95417 31403 14318 48308 67900 03731  
63629 73401 96091 13892 74676 02950 33058 69632 47140 17708  
40780 77000 12596 53356 53816 98418 50826 77827 39903 03603  
22892 21586 48314 41737 44594 81137 08302 60891 86790 08904  
42197 12261 07034 82737 06878 51625 70707 55392 94297 86176  
17114 51940 48074 40404 80320 08849 34054 73797 02763 10956  
82082 75275 81266 31157 51070 72989 69606 95955 08647 73022  
87438 70315 49539 80988 08865 95625 08331 32721 73941 54644  
17461 03527 75494 44936 98809 71680 81302 08780 74572 84723  
61131 33042 03601

**11579/10979/10279 kHz, 1100/1120/1140 UTC**

**11579/10979/10279 kHz, 04-12/05-12/12-12, 1100/1120/1140 UTC**

09596 00180 25069 83106 14297 58973 38223 07879 90109 78832  
65450 20647 13559 03420 22857 08304 65155 50385 19784 14961  
34452 07433 58543 86234 46833 56520 86730 72690 17905 94720  
21953 85781 63503 35641 96804 53260 39457 91091 67511 62397  
82711 75295 52904 30091 58389 17410 74348 88304 89910 83697  
80153 85768 12127 16187 06453 31347 13866 05027 46155 49507  
65021 79336 02943 33559 52699 64514 48451 71820 49782 68147  
75272 95932 31614 46487 53130 59783 57906 16323 49018 12203  
80051 74734 53502 76723 58415 59867 09315 61090 63354 01991  
79945 86767 80960 65576 25101 40669 27144 76893 93992 97214  
04565 55111 48409 17817 24034 53450 02767 13358 78176 25795  
73454 12303 15337 87557 51756 94413 74690 68982 81068 93180  
08858 52531 17815 49593 38973 27567 37638 92566 76198 56125  
32904 86845 51397 51765 44316 45578 87382 78504 88133 07915  
76455 71499 76694 78113 21643 11451 16281 26519 68933 10406  
21748 42802 27564 36986 03028 66812 79571 70593 81165 67408  
48817 40073 95933 46021 83471 80158 57493 91172 68645 54455  
98332 54605 82873 42285 29425 60085 49009 81766 24519 44570  
05735 82898 26314

**11579/10979/10279 kHz, 18-12, 1100/1120/1140 UTC**

03109 00001 00000 36253

**11579/10979/10279 kHz, 19-12, 1100/1120/1140 UTC**

09869 00001 00000 41667

**11579/10979/10279 kHz, 25-12/26-12, 1100/1120/1140 UTC**

00194 00144 00298 52952 15151 77652 74570 12899 71761 78564  
13171 15636 00231 56444 98562 68408 98848 20326 96637 44531  
59597 64701 97083 48568 76308 82878 91779 23150 60087 98174  
16278 12573 19919 39918 82478 33810 24485 05185 86589 19184  
52121 84650 26040 17685 29614 06805 48607 99680 73723 12815  
80560 18873 27223 06952 88790 73288 45276 00538 18685 78987  
85384 05770 48925 19595 06443 31847 81297 57596 56093 71505  
57602 86024 34284 26159 54273 14988 11167 78453 22835 60492  
29543 50124 08378 41016 98471 32971 29318 18841 83561 79956  
98005 55457 90216 09818 82314 54335 51296 02058 31616 18290  
98935 67772 30973 97911 24453 47746 50624 35481 69078 68229  
99333 26177 57508 41567 91141 95104 39823 65956 93399 45614  
06359 63178 15481 98161 48101 97906 43717 62818 58631 83667  
24334 25097 07203 92197 86557 17436 26988 23160 32226 82196  
11752 65254 98342 54646 70058 28332 46527

**14841/16241/18241 kHz, 04-12/06-12, 1200/1220/1240 UTC**

01234 00128 90108 92599 25204 84428 29529 69075 79949 85962  
74710 24249 04584 21934 58357 27376 37796 70886 27621 14126  
73539 22980 04493 50457 29607 44223 16532 60059 58733 04672  
69280 37482 45324 15877 02132 00988 19788 75452 91777 58090  
48538 67408 16366 66521 97526 85734 46613 27679 98924 28442  
76100 08079 13356 59696 71900 16978 11587 64998 97421 50866  
60860 87477 19269 41767 87785 81184 84517 50500 40800 15534  
38041 99940 41753 42491 38172 24501 79865 10518 31300 23923  
88393 84351 95932 03226 97216 58555 19555 26094 82737 61408  
58637 00698 43824 35454 02723 16555 72545 97784 41318 03097  
15054 65967 95401 91992 89159 11144 11949 94616 60793 12427  
38857 42585 17898 99983 72803 35253 36686 85615 70015 15495  
67167 56395 77774 92651 93931 84707 38975 61799 75138 58888  
41443

**14841/16241/18241 kHz, 11-12/13-12, 1200/1220/1240 UTC**

04336 00164 18599 81854 44369 87240 85602 74241 14217 64369  
59387 70364 93076 61306 02959 35285 47212 71827 14228 31728  
86466 68219 31369 67807 45732 65529 06207 35154 16170 99320  
72463 19650 83452 97633 64333 89643 48179 29571 48758 37447  
00733 44788 30783 73133 59794 55195 32869 17354 39029 24410  
15101 24925 55252 64870 76051 10889 02021 61112 57231 30330  
37996 46046 59461 37174 32623 31922 75570 19607 92808 76346  
59538 45140 30214 23666 40387 70957 25804 18082 53280 13883  
17436 69969 41962 27450 84064 51475 14630 59539 44480 38134  
97398 41179 22561 27258 48530 43758 43442 36402 95422 62931  
45376 22198 71778 65179 81621 10730 39182 54815 73465 26548  
34297 54363 77111 37258 37190 71493 96680 32368 57815 65809  
55169 30030 92745 20289 31116 12992 45266 34692 17886 55286  
43708 85496 15201 15085 38553 48017 12131 38651 58097 27880  
53689 92672 29518 48200 35691 53878 07923 79540 11755 97340  
09297 30489 04863 46017 97733 38558 44412 10945 21631 55926  
12348 45183 87913 15930 54621 64741 31155

**14841/16241/18241 kHz, 18-12/20-12, 1200/1220/1240 UTC**

00486 00085 84469 68135 20416 08678 06800 23653 02717 80327  
06943 74616 98032 33086 12503 85531 59723 08524 04858 94493  
56375 04037 13572 03612 01442 62543 84056 83258 86203 95205  
02763 59312 34219 51385 84841 10967 65384 05017 83945 49547  
64256 18755 71283 33204 31796 55377 12017 73552 32670 46207  
03474 83440 94597 39689 44456 42241 72714 70989 91774 50519  
84820 46413 38143 32181 29039 87795 44616 81497 58494 74393  
22488 78642 75489 77942 94235 45777 92672 81625 60934 47144  
65980 37019 32738 16742 98679 31036 13624 62620

**14841/16241/18241 kHz, 25-12/27-12, 1200/1220/1240 UTC**

05841 00194 98770 84565 95543 91611 02658 88355 95106 69360  
04265 34154 97393 84189 50509 10411 13481 87324 34254 31955  
75598 56754 32582 84462 36741 84950 13720 24021 59785 16986  
38891 19168 25113 21329 76934 07361 25098 09067 73337 56408  
24891 92324 86669 89552 43068 31471 73001 34651 11052 45863  
40022 83383 71186 58516 33099 19627 49941 12979 57849 66654  
05484 50518 80993 46138 59012 02487 58472 72420 88916 57747  
43803 39482 49770 51853 01939 54601 99396 97267 31238 33762  
30647 01162 53272 19410 26056 66061 81105 14214 59609 29252  
74206 24264 70584 29325 32869 05871 62046 87380 32539 11885  
09246 75835 83128 83603 93547 92297 25121 14117 40674 55234  
44329 51714 94171 06491 29604 86873 41690 36451 99304 56253  
05109 91196 10679 23635 54156 67295 08203 73778 77941 95114  
41682 85481 88941 78265 59655 67502 26324 68757 89328 48786



41729 97506 83071 40774 27962 11052 98882 07632 56244 27726  
56586 30054 95630 40741 03316 74410 04904 23622 00366 82510  
98976 61204 75678 59534 49759 16907 00065 97698 67108 09022  
67003 52862 29330 87096 42393 02813 07591 44035 77141 51373  
08529 07505 33803 20848 75927 69322 44467 53890 93293 50516  
66723 91285 93345 39867 81227 14193 66231

13919 /11519/10719 kHz, 0910/0930/0950 UTC

**13919 /11519/10719 kHz, 05-12/07-12, 0910/0930/0950 UTC**

00751 00133 94656 93964 03615 43050 43675 21382 00152 69747  
45126 42723 23055 67852 58059 04335 93013 11486 84406 03279  
80743 52750 72650 92473 42341 46645 14390 26864 11369 85646  
81688 75847 17943 57173 06609 85605 29812 11193 75118 64440  
27607 15723 60435 19450 46787 38422 21196 77919 30932 51845  
72844 58797 09296 30241 78635 40732 30136 24955 64115 01599  
70118 57429 92765 93994 59819 29605 63067 08548 87198 07144  
00965 75112 37852 07478 42775 67087 35164 32496 03273 32372  
61631 23892 78881 51440 38996 52710 45252 95975 48212 36851  
01152 85793 80632 43338 29464 64950 04409 08358 67849 47701  
06860 77437 84652 30279 36488 60877 19032 27895 47448 65482  
37324 45385 71835 28803 47577 27693 80641 63696 13066 52901  
44470 25480 14434 82897 04385 52232 83708 39139 13891 87716  
91758 86614 30685 33442 51461 20500

**13919 /11519/10719 kHz, 12-12, 0910/0930/0950 UTC**

05114 00001 00000 33656

**13919 /11519/10719 kHz, 14-12, 0910/0930/0950 UTC**

04358 00001 00000 36661

**13919 /11519/10719 kHz, 19-12/21-12/26-12/28-12, 0910/0930/0950 UTC**

05803 00105 75733 89688 00056 63861 38666 98691 48761 14181  
55626 09949 80520 36002 96785 25071 92618 85620 04334 82732  
88378 83668 36602 32234 01879 71071 02365 34078 11584 18627  
54426 93311 26732 95389 08009 34644 06432 60902 26349 52087  
53001 33811 02766 36846 73206 67670 94766 88623 59370 74313  
63733 17328 73518 81317 83240 88753 94885 48514 19961 78620  
40033 64613 66935 38118 11150 61690 11204 54260 72782 55732  
05892 63660 35164 06388 27670 58638 26855 38450 94806 46987  
09562 85307 66881 00003 90230 03011 35502 15233 39194 20809  
71935 16725 88718 20732 84112 87714 70512 73497 37286 63898  
31690 05492 33260 87301 41551 38322 19986 60894 75297 42296  
53219 22474 46349 63683 53024 98806 34817 35422

**XPB1**

9352 kHz, 02-12/04-12, 0000 UTC  
9052 kHz, 02-12/04-12, 0010 UTC  
8152 kHz, 02-12/04-12, 0020 UTC  
7752 kHz, 02-12/04-12, 0030 UTC  
6952 kHz, 02-12/04-12, 0040 UTC  
5852 kHz, 02-12/04-12, 0050 UTC

10176 kHz, 03-12, 0200 UTC  
9376 kHz, 03-12, 0210 UTC  
8176 kHz, 03-12, 0220 UTC  
7676 kHz, 03-12, 0230 UTC  
6976 kHz, 03-12, 0240 UTC  
5876 kHz, 03-12, 0250 UTC

9168 kHz, 02-12/04-12, 0300 UTC  
9068 kHz, 02-12/04-12, 0310 UTC  
8068 kHz, 02-12/04-12, 0320 UTC  
7968 kHz, 02-12/04-12, 0330 UTC  
6768 kHz, 02-12/04-12, 0340 UTC  
5768 kHz, 02-12/04-12, 0350 UTC

10154 kHz, 03-12, 0400 UTC  
9354 kHz, 03-12, 0410 UTC  
9054 kHz, 03-12, 0420 UTC  
8154 kHz, 03-12, 0430 UTC  
7654 kHz, 03-12, 0440 UTC  
6854 kHz, 03-12, 0450 UTC

9284 kHz, 02-12, 0500 UTC  
9084 kHz, 02-12, 0520 UTC  
8084 kHz, 02-12, 0520 UTC  
7584 kHz, 02-12, 0530 UTC  
6884 kHz, 02-12, 0540 UTC  
5784 kHz, 02-12, 0550 UTC

5836 kHz, 03-12, 0600 UTC  
6836 kHz, 03-12, 0610 UTC  
7536 kHz, 03-12, 0620 UTC  
7936 kHz, 03-12, 0630 UTC  
8136 kHz, 03-12, 0640 UTC  
9136 kHz, 03-12, 0650 UTC

19461 kHz, 02-12/03-12/09-12/10-12/16-12/17-12/23-12/24-12/30-12/31-12, 0600 UTC  
19261 kHz, 02-12/03-12/09-12/10-12/16-12/17-12/23-12/24-12/30-12/31-12, 0610 UTC  
18261 kHz, 02-12/03-12/09-12/10-12/16-12/17-12/23-12/24-12/30-12/31-12, 0620 UTC  
16261 kHz, 02-12/03-12/09-12/10-12/16-12/17-12/23-12/24-12/30-12/31-12, 0630 UTC  
15861 kHz, 02-12/03-12/09-12/10-12/16-12/17-12/23-12/24-12/30-12/31-12, 0640 UTC  
14961 kHz, 02-12/03-12/09-12/10-12/16-12/17-12/23-12/24-12/30-12/31-12, 0650 UTC

6941 kHz, 01-12/02-12/04-12, 0700 UTC  
7541 kHz, 01-12/02-12/04-12, 0710 UTC  
7941 kHz, 01-12/02-12/04-12, 0720 UTC  
8141 kHz, 01-12/02-12/04-12, 0730 UTC  
9241 kHz, 01-12/02-12/04-12, 0740 UTC  
10241 kHz, 01-12/02-12/04-12, 0750 UTC

12157 kHz, 03-12, 1100 UTC  
13557 kHz, 03-12, 1110 UTC  
13957 kHz, 03-12, 1120 UTC  
14757 kHz, 03-12, 1130 UTC  
15857 kHz, 03-12, 1140 UTC  
17467 kHz, 03-12, 1150 UTC

12198 kHz, 01-12/02-12, 1200 UTC  
13398 kHz, 01-12/02-12, 1210 UTC  
14798 kHz, 01-12/02-12, 1220 UTC  
15898 kHz, 01-12/02-12, 1230 UTC  
18298 kHz, 01-12/02-12, 1240 UTC  
19198 kHz, 01-12/02-12, 1250 UTC

14981 kHz, 04-12, 1200 UTC  
13981 kHz, 04-12, 1210 UTC  
13381 kHz, 04-12, 1220 UTC  
12181 kHz, 04-12, 1230 UTC  
11081 kHz, 04-12, 1240 UTC  
10281 kHz, 04-12, 1250 UTC

14978 kHz, 07-12/11-12/14-12/18-12/21-12/25-12/28-12, 1200 UTC  
13978 kHz, 07-12/11-12/14-12/18-12/21-12/25-12/28-12, 1210 UTC  
13378 kHz, 07-12/11-12/14-12/18-12/21-12/25-12/28-12, 1220 UTC  
12178 kHz, 07-12/11-12/14-12/18-12/21-12/25-12/28-12, 1230 UTC  
11078 kHz, 07-12/11-12/14-12/18-12/21-12/25-12/28-12, 1240 kHz  
10278 kHz, 07-12/11-12/14-12/18-12/21-12/25-12/28-12, 1250 UTC

14362 kHz, 03-12, 1300 UTC  
14962 kHz, 03-12, 1310 UTC  
16062 kHz, 03-12, 1320 UTC  
18262 kHz, 03-12, 1330 UTC  
19362 kHz, 03-12, 1340 UTC  
20362 kHz, 03-12, 1350 UTC

20044 kHz, 03-12/06-12/10-12/13-12/17-12/20-12/24-12/27-12/31-12, 1300 UTC  
19344 kHz, 03-12/06-12/10-12/13-12/17-12/20-12/24-12/27-12/31-12, 1310 UTC  
18544 kHz, 03-12/06-12/10-12/13-12/17-12/20-12/24-12/27-12/31-12, 1320 UTC  
17444 kHz, 03-12/06-12/10-12/13-12/17-12/20-12/24-12/27-12/31-12, 1330 UTC  
16244 kHz, 03-12/06-12/10-12/13-12/17-12/20-12/24-12/27-12/31-12, 1340 UTC  
14944 kHz, 03-12/06-12/10-12/13-12/17-12/20-12/24-12/27-12/31-12, 1350 UTC

20373 kHz, 01-12/02-12/04-12, 1400 UTC  
19373 kHz, 01-12/02-12/04-12, 1410 UTC  
18373 kHz, 01-12/02-12/04-12, 1420 UTC  
17473 kHz, 01-12/02-12/04-12, 1430 UTC  
15873 kHz, 01-12/02-12/04-12, 1440 UTC  
14873 kHz, 01-12/02-12/04-12, 1450 UTC

20144 kHz, 03-12, 1500 UTC  
19044 kHz, 03-12, 1510 UTC  
18644 kHz, 03-12, 1520 UTC  
17444 kHz, 03-12, 1530 UTC  
16144 kHz, 03-12, 1540 UTC  
14944 kHz, 03-12, 1550 UTC

11551 kHz, 04-12, 2100 UTC  
10951 kHz, 04-12, 2110 UTC  
10351 kHz, 04-12, 2120 UTC  
9351 kHz, 04-12, 2130 UTC  
9051 kHz, 04-12, 2140 UTC  
7951 kHz, 04-12, 2150 UTC

9087 kHz, 04-12, 2300 UTC  
8187 kHz, 04-12, 2310 UTC  
7887 kHz, 04-12, 2320 UTC  
7487 kHz, 04-12, 2330 UTC  
6787 kHz, 04-12, 2340 UTC  
5887 kHz, 04-12, 2350 UTC

## ***Russian intelligence***

The MFSK-21/MFSK-13 transmissions continue in December. Mostly on the same frequencies as we saw in November. We noticed various schedules. Below a summary of these transmissions.

10874 kHz, 06-12, 1218 UTC  
12176 kHz, 06-12, 1215 UTC  
13397 kHz, 06-12, 0725 UTC  
14772 kHz, 06-12, 0933 UTC  
16118 kHz, 06-12, 0930 UTC  
18224 kHz, 06-12, 0920 UTC  
18544 kHz, 06-12, 1320 UTC  
9258 kHz, 06-12, 1222 UTC

10874 kHz, 09-12, 1219 UTC  
12176 kHz, 09-12, 1215 UTC  
14772 kHz, 09-12, 0932 UTC  
16118 kHz, 09-12, 0929 UTC  
18569 kHz, 09-12, 0842 UTC  
8124 kHz, 09-12, 1226 UTC  
9258 kHz, 09-12, 1223 UTC

6854 kHz, 12-12, 1817 UTC

8172 kHz, 18-12, 0829 UTC

15624 kHz, 19-12, 1346 UTC  
16256 kHz, 19-12, 1342 UTC  
17423 kHz, 19-12, 1031 UTC  
18564 kHz, 19-12, 1338 UTC  
18648 kHz, 19-12, 1434 UTC  
19854 kHz, 19-12, 1334 UTC

15624 kHz, 20-12, 0906 UTC  
15624 kHz, 20-12, 0958 UTC  
16256 kHz, 20-12, 0902 UTC  
16256 kHz, 20-12, 0954 UTC

19083 kHz, 26-12, 0955 UTC

18569 kHz, 27-12, 0943 UTC  
16214 kHz, 27-12, 1211 UTC.

## ***DIPLOMATIC STATIONS***

### ***Diplomatic stations: Bulgaria***

9375 kHz, 06-12, 0821 UTC, RFSM  
17440 kHz, 06-12, 0937 UTC, RFSM  
14755 kHz, 06-12, 0923 UTC, RFSM  
18515 kHz, 06-12, 1122 UTC, RFSM  
18455 kHz, 06-12, 1356 UTC, RFSM  
20955 kHz, 06-12, 1452 UTC, RFSM  
17440 kHz, 09-12, 1322 UTC, RFSM  
14755 kHz, 09-12, 0920 UTC, RFSM

18515 kHz, 09-12, 1122 UTC, RFSM  
18455 kHz, 09-12, 1356 UTC, RFSM  
20955 kHz, 09-12, 1449 UTC, RFSM  
14755 kHz, 10-12, 0920 UTC, RFSM  
18515 kHz, 10-12, 1124 UTC, RFSM  
18455 kHz, 10-12, 1357 UTC, RFSM  
20955 kHz, 10-12, 1456 UTC, RFSM  
17440 kHz, 20-12, 1320 UTC, RFSM

14755 kHz, 20-12, 0920 UTC, RFSM  
18515 kHz, 20-12, 1120 UTC, RFSM  
18455 kHz, 20-12, 1355 UTC, RFSM  
16035 kHz, 20-12, 1255 UTC, RFSM  
17440 kHz, 27-12, 0935 UTC, RFSM  
14755 kHz, 27-12, 0926 UTC, RFSM  
18515 kHz, 27-12, 0948 UTC, RFSM  
18455 kHz, 27-12, 0815 UTC, RFSM

### ***Diplomatic stations: Egypt***

20056.7 kHz, 05-12, 1203 UTC, SITOR-A 100/170  
20055.0 kHz, 05-12, 1208 UTC, CODAN  
17246.7 kHz, 06-12, 1134 UTC, SITOR-A 100/170  
20056.7 kHz, 06-12, 1231 UTC, SITOR-A 100/170  
20055.0 kHz, 06-12, 1232 UTC, CODAN  
20056.7 kHz, 06-12, 1418 UTC, SITOR-A 100/170  
17246.7 kHz, 06-12, 1405 UTC, SITOR-A 100/170  
17425.0 kHz, 06-12, 1405 UTC, CODAN  
20056.7 kHz, 06-12, 1620 UTC, SITOR-A 100/170  
20055.0 kHz, 06-12, 1621 UTC, CODAN  
20055.0 kHz, 06-12, 1621 UTC, CODAN  
17246.7 kHz, 06-12, 1508 UTC, SITOR-A 100/170  
20025.0 kHz, 07-12, 1100 UTC, CODAN  
20056.7 kHz, 07-12, 1111 UTC, SITOR-A 100/170  
20055.0 kHz, 07-12, 1113 UTC, CODAN  
20036.7 kHz, 09-12, 0850 UTC, SITOR-A 100/170

MFA Cairo clg OOVp: Egyptian embassy Islamabad  
99901: MFA Cairo trying to connect to 44405: Egyptian embassy Islamabad  
Egyptian diplo traffic i.p.  
MFA Cairo clg OOVp: Egyptian embassy Islamabad  
99901: MFA Cairo message to 44405: Egyptian embassy Islamabad  
MFA Cairo clg KKXE: Egyptian embassy Luanda  
MFA Cairo clg OOVc: Egyptian embassy New Delhi  
99901: MFA Cairo message to 44406: Egyptian embasst New Delhi  
MFA Cairo clg RCVB: Egyptian embassy Washington  
99903: MFA Cairo message to 66601: Egyptian embassy Washington  
66601: Egyptian embassy Washington connecting with 99903: MFA CAIRO  
Egyptian diplo traffic  
99904: MFA Cairo connecting to unid embassy  
MFA Cairo clg KKQB: unid embassy  
99904: MFA Cairo message to 33321: unid embassy  
MFA Cairo wkg KKVU: Egyptian embassy Accra

20036.7 kHz, 09-12, 0902 UTC, SITOR-A 100/170  
20056.7 kHz, 09-12, 1102 UTC, SITOR-A 100/170  
20055.0 kHz, 09-12, 1103 UTC, CODAN  
20056.7 kHz, 10-12, 1430 UTC, SITOR-A 100/170  
14726.7 kHz, 11-12, 1134 UTC, SITOR-A 100/170  
20056.7 kHz, 11-12, 1114 UTC, SITOR-A 100/170  
20055.0 kHz, 11-12, 1116 UTC, CODAN  
20056.7 kHz, 11-12, 1159 UTC, SITOR-A 100/170  
20056.7 kHz, 11-12, 1212 UTC, SITOR-A 100/170  
20055.0 kHz, 11-12, 1216 UTC, CODAN

MFA Cairo wkg KKVU: Egyptian embassy Accra  
MFA Cairo clg OOVP: Egyptian embassy Islamabad  
99901: MFA Cairo message to 44405: Egyptian embassy Islamabad  
MFA Cairo clg OOVP: Egyptian embassy Islamabad  
MFA Cairo wkg KKXT: Egyptian embassy Nairobi  
MFA Cairo clg OOVP: Egyptian embassy Islamabad  
99901: MFA Cairo message to 44405: Egyptian embassy Islamabad  
MFA Cairo clg OOVP: Egyptian embassy Islamabad  
Egyptian embassy Islamabad wkg SSTB: MFA Cairo  
99901: MFA Cairo message to 44405: Egyptian embassy Islamabad



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20056.7 kHz, 12-12, 0727 UTC, SITOR-A 100/170	Unid embassy clg SSTB: MFA Cairo
20056.7 kHz, 12-12, 0911 UTC, SITOR-A 100/170	MFA Cairo clg KKVD: Egyptian embassy Conakry
20056.7 kHz, 12-12, 0938 UTC, SITOR-A 100/170	MFA Cairo clg TVXF: unid embassy
20055.0 kHz, 12-12, 0938 UTC, CODAN	99901: MFA Cairo message to 18: unid embassy
20056.7 kHz, 12-12, 1001 UTC, SITOR-A 100/170	Egyptian embassy Islamabad wkg SSTB: MFA Cairo
20055.0 kHz, 12-12, 1002 UTC, CODAN	99901: MFA Cairo message to 44405: Egyptian embassy Islamabad
20056.7 kHz, 12-12, 1120 UTC, SITOR-A 100/170	Egyptian embassy Islamabad wkg SSTB: MFA Cairo
20055.0 kHz, 12-12, 1121 UTC, CODAN	99901: MFA Cairo message to 44405: Egyptian embassy Islamabad
20056.7 kHz, 12-12, 1312 UTC, SITOR-A 100/170	Egyptian embassy Islamabad wkg SSTB: MFA Cairo
20055.0 kHz, 12-12, 1314 UTC, CODAN	99901: MFA Cairo message to 44405: Egyptian embassy Islamabad
20056.7 kHz, 12-12, 1435 UTC, SITOR-A 100/170	Egyptian embassy Islamabad wkg SSTB: MFA Cairo
20056.7 kHz, 12-12, 1513 UTC, SITOR-A 100/170	MFA Cairo wkg KKVD: Egyptian embassy Conakry "ARQ 33308"
20055.0 kHz, 12-12, 1519 UTC, CODAN	99901: MFA Cairo message to 18: unid embassy
16026.7 kHz, 24-12, 0801 UTC, SITOR-A 100/170	Egyptian diplo i.p.
16026.7 kHz, 24-12, 1045 UTC, SITOR-A 100/170	MFA Cairo clg XBVP: Egyptian embassy Rome
16025.0 kHz, 24-12, 1047 UTC, CODAN	99903: MFA Cairo message to 11105: Egyptian embassy Rome
20056.7 kHz, 25-12, 1316 UTC, SITOR-A 100/170	Egyptian embassy Washington clg SSTE: MFA Cairo
20055.0 kHz, 25-12, 1316 UTC, CODAN	66601: Egyptian embassy Washington message to 99903: MFA Cairo
20056.7 kHz, 25-12, 1511 UTC, SITOR-A 100/170	MFA Cairo clg OOVV: Egyptian embassy Islamabad
20056.7 26-12, 1134 UTC, SITOR-A 100/170	MFA Cairo clg OOVV: Egyptian embassy New Delhi
20056.7 26-12, 1326 UTC, SITOR-A 100/170	MFA Cairo clg TVXF: unid Egyptian embassy
20055.0 26-12, 1328 UTC, CODAN	99901: MFA Cairo message to 18: unid Egyptian embassy
20056.7 26-12, 1134 UTC, SITOR-A 100/170	MFA Cairo clg OOVV: Egyptian embassy New Delhi
20056.7 26-12, 1326 UTC, SITOR-A 100/170	MFA Cairo clg TVXF: unid Egyptian embassy
20055.0 26-12, 1328 UTC, CODAN	99901: MFA Cairo message to 18: unid Egyptian embassy

## ***Diplomatic stations: North Korea***

16252 kHz, 02-12, 0632 UTC	DPRK embassy Moscow clg Permanent Mission Geneva
16252 kHz, 02-12, 0647 UTC	DPRK embassy Moscow clg embassy Rome
16252 kHz, 02-12, 0649 UTC	DPRK embassy Moscow clg embassy Rome
14300 kHz, 02-12, 0735 UTC	DPRK embassy Moscow clg embassy Berlin
16252 kHz, 02-12, 0803 UTC	DPRK embassy Moscow clg embassy Stockholm
16250 kHz, 02-12, 1210 UTC	Unid DPRK embassy wkg embassy Moscow
16252 kHz, 02-12, 1231 UTC	DPRK embassy Moscow clg Unid DPRK embassy
16252 kHz, 02-12, 1301 UTC	DPRK embassy Moscow clg Permanent Mission Geneva
16252 kHz, 03-12, 0810 UTC	DPRK embassy Moscow clg embassy Stockholm
15500 kHz, 03-12, 1213 UTC	DPRK embassy wkg DPRK embassy Moscow
15500 kHz, 03-12, 1353 UTC	DPRK embassy wkg DPRK embassy Moscow
14100 kHz, 03-12, 1235 UTC	DPRK embassy Moscow wkg DPRK embassy Wien
16252 kHz, 03-12, 1203 UTC	DPRK embassy Moscow wkg DPRK embassy Stockholm
18650 kHz, 03-12, 1240 UTC	DPRK embassy Rome wkg DPRK embassy Moscow
16252 kHz, 03-12, 1229 UTC	DPRK embassy Moscow message to embassy Rome
16252 kHz, 03-12, 1306 UTC	DPRK embassy Moscow clg Permanent Mission Geneva
14800 kHz, 03-12, 1203 UTC	DPRK embassy Rome wkg DPRK embassy Moscow
16252 kHz, 05-12, 1233 UTC	DPRK embassy Moscow wkg DPRK embassy Rome
18650 kHz, 05-12, 1233 UTC	DPRK embassy Rome wkg embassy Moscow
16252 kHz, 05-12, 1222 UTC	DPRK embassy Moscow wkg DPRK embassy Berlin
16252 kHz, 05-12, 1305 UTC	DPRK embassy Moscow clg Permanent Mission Geneva
16380 kHz, 06-12, 1010 UTC	Unid DPRK embassy clg DPRK embassy Moscow
16380 kHz, 06-12, 1017 UTC	DPRK embassy Rome clg DPRK embassy Moscow
16380 kHz, 06-12, 1059 UTC	DPRK embassy Rome clg DPRK embassy Moscow
18650 kHz, 06-12, 1233 UTC	DPRK embassy Rome wkg DPRK embassy Moscow
18650 kHz, 06-12, 1242 UTC	DPRK embassy Rome wkg DPRK embassy Moscow
18650 kHz, 07-12, 1231 UTC	Unid DPRK embassy wkg DPRK embassy Moscow
18650 kHz, 07-12, 1239 UTC	DPRK embassy Moscow wkg DPRK embassy Sofia
18650 kHz, 09-12, 1231 UTC	DPRK embassy Rome wkg DPRK embassy Moscow
16252 kHz, 09-12, 1117 UTC	Unid DPRK embassy wkg DPRK embassy Moscow
16252 kHz, 09-12, 1203 UTC	DPRK embassy Moscow wkg DPRK embassy Stockholm
16252 kHz, 09-12, 1231 UTC	DPRK embassy Moscow wkg DPRK embassy Rome
16252 kHz, 09-12, 1256 UTC	DPRK embassy Moscow msg to DPRK embassy Stockholm
13600 kHz, 09-12, 1238 UTC	Unid DPRK embassy wkg DPRK embassy Moscow

16252 kHz, 10-12, 1231 UTC  
16252 kHz, 10-12, 1301 UTC  
16252 kHz, 11-12, 0652 UTC  
16252 kHz, 11-12, 0806 UTC  
14650 kHz, 11-12, 0700 UTC  
16252 kHz, 11-12, 1316 UTC  
14650 kHz, 11-12, 1231 UTC  
18655 kHz, 12-12, 0635 UTC  
18655 kHz, 12-12, 1302 UTC  
16252 kHz, 12-12, 0631 UTC  
16252 kHz, 12-12, 0804 UTC  
16252 kHz, 12-12, 1600 UTC  
14222 kHz, 16-12, 0805 URC  
16252 kHz, 16-12, 1230 UTC  
16252 kHz, 16-12, 1307 UTC

DPRK embassy Moscow wkg DPRK embassy Rome  
DPRK embassy Moscow wkg DPRK embassy Stockholm  
DPRK embassy Moscow wkg DPRK embassy Rome  
DPRK embassy Moscow msg to DPRK embassy Stockholm  
DPRK embassy Rome wkg DPRK embassy Moscow  
DPRK embassy Moscow wkg DPRK Permanent VN Mission Geneve  
Unid DPRK embassy wkg DPRK embassy Moscow. Switched from 1200Bd to 600Bd at 1234z  
DPRK embassy Cairo wkg DPRK embassy Moscow  
DPRK embassy Cairo wkg DPRK embassy Moscow  
DPRK embassy Rome wkg DPRK embassy Moscow  
DPRK embassy Moscow msg to DPRK embassy Stockholm  
DPRK embassy Moscow wkg DPRK embassy Rome  
DPRK embassy Stockholm wkg DPRK embassy Moscow  
DPRK embassy Moscow wkg DPRK embassy Rome  
DPRK embassy Moscow wkg DPRK Permanent VN Mission Geneve



*DPRK embassy Prague by Krokodyl ([GNU Free Documentation License](#))*

14222 kHz, 18-12, 0807 UTC  
16252 kHz, 18-12, 1301 UTC  
18655 kHz, 19-12, 1308 UTC  
16252 kHz, 20-12, 0654 UTC  
13200 kHz, 20-12, 0707 UTC  
16250 kHz, 21-12, 1303 UTC  
14350 kHz, 23-12, 0634 UTC  
16252 kHz, 23-12, 0641 UTC  
13200 kHz, 23-12, 0700 UTC  
16250 kHz, 23-12, 1203 UTC  
16252 kHz, 23-12, 1203 UTC  
15550 kHz, 23-12, 1212 UTC

Unid DPRK embassy clg DPRK embassy Moscow  
DPRK embassy Moscow wkg DPRK Permanent VN Mission Geneve  
Unid DPRK embassy wkg DPRK embassy Moscow  
DPRK embassy Rome wkg DPRK embassy Moscow  
DPRK embassy Moscow wkg DPRK embassy Rome  
DPRK Permanent Mission Geneva 2 msgs to DPRK embassy Moscow  
DPRK embassy Moscow 1 msg to DPRK Permanent Mission Geneva  
Unid DPRK embassy wkg DPRK embassy Moscow  
DPRK embassy Moscow wkg DPRK embassy Warsaw  
DPRK embassy Stockholm wkg DPRK embassy Moscow  
DPRK embassy Moscow 3 msgs to DPRK embassy Stockholm  
DPRK embassy Moscow wkg DPRK embassy Bucharest

13200 kHz, 23-12, 1232 UTC  
16252 kHz, 23-12, 1233 UTC  
14650 kHz, 23-12, 1250 UTC  
14350 kHz, 23-12, 1303 UTC  
16250 kHz, 23-12, 1303 UTC  
16252 kHz, 24-12, 0650 UTC  
13200 kHz, 24-12, 0702 UTC  
16252 kHz, 24-12, 0805 UTC

DPRK embassy Moscow two messages to DPRK embassy Warsaw  
DPRK embassy Moscow wkg DPRK embassy Rome  
Unid DPRK embassy wkg DPRK embassy Moscow  
DPRK embassy Moscow wkg DPRK Permanent Mission Geneva  
Unid DPRK embassy wkg DPRK embassy Moscow  
DPRK embassy Moscow wkg DPRK embassy Rome  
DPRK embassy Moscow wkg DPRK embassy Warsaw  
DPRK embassy Moscow wkg DPRK embassy Rome

16252 kHz, 24-12, 1207 UTC

DPRK embassy Moscow **msgs 4046 and 4047** to DPRK embassy Stockholm  
**Message #4046**

61459 43161 79451 70230 04615 05162 38965 88954 99423 98004  
74306 31466 02901 23622 30398 99297 94833 66059 15287 33848  
03129 92217 65349 68961 12472 74841 14881 58313 87565 77860  
91580 43284 52132 22421 33354 07061 25619 83081 33341 63246  
84552 93545 13364 65698 33950 18487 24615 82629 04228 42344  
30046 59867 91537 83820 38840 51672 88902 94534 04775 00321  
30480 92544 82025 27551 73693 33579 49249 63738 96403 45876  
83288 51515 21876 75819 51011 23624 36330 10257 88411 58372  
15290 35675 02030 35625 06259 45730 41572 18752 82772 27120  
08423 65507 12161 79460 61835 00483 33448 74921 42417 89938  
34544 53453 19239 27655 38095 99997 44215 02312 47010 71330  
44477 97592 20628 88302 13647 58582 34053 71320 71086 07057  
51781 91224 11087 00983 42015 97444 84021 45836 19425 47138  
06134 92073 54328 53671 92141 28831 31298 51155 39493 72775  
87859 14353 49086 96317 09603 04384 38584 09549 05297 90380  
18126 10349 29854 85668 29391 22607 97114 31999 20034 34021  
04576 60410 56484 15720 83682 41983 33410 77027 42399 41021  
12134 10184 49057 16447 51944 94915 37222 00333 56699 32199  
65624 78486 48262 26655 11586 74621 44238 19267 14667 62032  
65147 26846 15781 31593 30449 50918 96365 73737 22220 72911  
44204 24324 87073 94734 28794 46308 76504 52248 13097 17987  
40744 88576 36925 86872 94569 58329 31132 47847 36074 99397  
19420 50801 01231 49650 31473 54019 31580 94734 39735 21485  
00173 44904 59091 82762 59397 10646 61305 79241 20012 34450  
33289 58223 11122 07443 31653 97037 62120 46892 46410 84663  
70263 84914 08609 47046 07778 81127 67053 92852 20737 76497  
11608 09959 84550 21049 92219 50285 74856 17342 73424 72584  
51692 99466 72278 23503 66873 38885 11380 99632 45163 51295  
05251 04786 25211 56811 82126 32423 34964 80718 13465 21127  
73525 61896 58403 53223 30646 06017 99380 41294 98890 56176  
49422 34885 23231 97732 70475 64733 83386 89678 73897 24924  
19079 94956 11122 72656 93990 70142 07207 69023 31868 42608  
86226 99775 08605 50259 97884 67779 27221 29323 43346 53665  
34329 89696 22921 07054

**Message #4047**

06128 08506 57416 04701 90062 74974 91472 27209 95423 91965  
01385 96013 11523 44768 92432 43064 81652 84827 16317 32141  
77193 52237 40693 37170 33699 76352 70729 49919 74876 79748  
14029 88216 50575 88624 60884 93526 05094 14512 88088 35242  
12765 67585 98295 29466 89867 37032 59591 09519 93335 26732  
12074 58416 73805 18812 24773 47912 50528 05286 80041 31960  
85648 12396 47859 28524 10630 65471 15258 88970 66091 21668  
01305 32627 04594 49820 64508 18375 65217 55742 78003 49247  
30927 83687 21048 36051 11892 02432

16252 kHz, 24-12, 1212 UTC  
16252 kHz, 24-12, 1230 UTC  
13200 kHz, 24-12, 1234 UTC  
16252 kHz, 24-12, 1306 UTC  
13200 kHz, 24-12, 1331 UTC  
14300 kHz, 25-12, 0743 UTC

Unid DPRK embassy wkg DPRK embassy Moscow  
DPRK embassy Moscow wkg DPRK embassy Rome  
DPRK embassy Moscow wkg DPRK embassy Warsaw  
DPRK embassy Moscow **msgs 4046 and 4047** DPRK embassy Stockholm  
DPRK embassy Moscow **msg 4046** to DPRK embassy Sofia  
DPRK embassy Moscow wkg DPRK embassy Berlin



15500 kHz, 25-12, 0828 UTC  
13200 kHz, 25-12, 1332 UTC  
13200 kHz, 25-12, 1346 UTC  
16252 kHz, 25-12, 1315 UTC  
16250 kHz, 25-12, 1317 UTC  
15500 kHz, 25-12, 1335 UTC  
14600 kHz, 25-12, 1334 UTC  
14300 kHz, 26-12, 1205 UTC

DPRK embassy Moscow wkg DPRK embassy Bucharest  
DPRK embassy Moscow wkg DPRK embassy Sofia  
DPRK embassy Moscow wkg DPRK embassy Sofia  
DPRK embassy Moscow wkg Permanent Mission Geneva  
Unid DPRK embassy wkg DPRK embassy Moscow  
DPRK embassy Moscow wkg DPRK embassy Bucharest  
Unid DPRK embassy wkg DPRK embassy Moscow  
DPRK embassy Moscow wkg DPRK embassy Berlin

16252 kHz, 26-12, 1207 UTC

DPRK embassy Moscow msg 4073 to Permanent Mission Geneva  
Message #4073  
20369 87920 74192 88133 19204 15903 38867 24660 84252 67320  
58157 33765 65590 47178 32889 48841 71304 84115 93624 90636  
97830 39635 80992 78388 91257 28915 53024 08416 78211 76723  
92317 50413 18133 82764 33627 85918 81023 03491 55005 20531  
12987 32738 80113 07579 04618 00800 62360 04142 43666 06462  
94196 98632 44074 11625 32803 96923 70743 74408 94961 38998  
16558 34337 24158 08458 05026 12273 12328 99693 68795 29290  
30958 42987 48688 30501 22031 30327 90334 87028 00591 95511  
93225 19323 22561 34765 13504 16576 17112 79090 87536 98520  
26961 91963 35364 18119 63353 64081 79523 59316 34055 33687  
30507 31106 43541 21559 29223 38219 99996 83637 86751 30133  
89677 60584 28091 85965 11992 74180 08634 46874 23214 03398  
65019 33639 52558 71135 95695 23257 81884 52441 81708 47038  
34483 87346 33362 13318 47227 32904 59689 59824 85583 09598  
24855 83067 70144 86606 24567 62520 27641 82409 06368 63413  
70126 05313 57398 06034 62420 11770 55774 86231 97442 71413  
98210 44255 82315 14489 35435 73634 85963 75626 17211 18511  
42236 64981 68554 49863 30450 68126 00221 63942 88883 43814  
76505 88207 54676 27274 74374 86777 19514 03632

16252 kHz, 26-12, 1232 UTC  
16252 kHz, 26-12, 1244 UTC  
16252 kHz, 26-12, 1252 UTC  
16250 kHz, 26-12, 1255 UTC  
16250 kHz, 26-12, 1321 UTC  
16250 kHz, 26-12, 1346 UTC  
13200 kHz, 26-12, 1233 UTC  
13200 kHz, 26-12, 1333 UTC  
13200 kHz, 26-12, 1342 UTC  
16252 kHz, 26-12, 1325 UTC  
16252 kHz, 26-12, 1338 UTC  
16252 kHz, 26-12, 1343 UTC  
16252 kHz, 26-12, 1345 UTC  
16252 kHz, 26-12, 1207 UTC  
14300 kHz, 26-12, 1205 UTC  
16252 kHz, 26-12, 1232 UTC  
16252 kHz, 26-12, 1244 UTC  
16252 kHz, 26-12, 1252 UTC  
16250 kHz, 26-12, 1255 UTC  
16250 kHz, 26-12, 1321 UTC  
16250 kHz, 26-12, 1346 UTC  
13200 kHz, 26-12, 1233 UTC  
13200 kHz, 26-12, 1333 UTC  
13200 kHz, 26-12, 1342 UTC  
16252 kHz, 26-12, 1325 UTC  
16252 kHz, 26-12, 1338 UTC  
16252 kHz, 26-12, 1343 UTC  
16252 kHz, 26-12, 1345 UTC  
13200 kHz, 27-12, 0632 UTC  
16252 kHz, 27-12, 0633 UTC  
16252 kHz, 27-12, 0648 UTC  
16252 kHz, 27-12, 0807 UTC

DPRK embassy Moscow wkg DPRK embassy Rome  
DPRK embassy Moscow wkg DPRK embassy Rome  
DPRK embassy Moscow wkg Permanent Mission Geneva  
Unid DPRK embassy clg DPRK embassy Moscow  
Unid DPRK embassy clg DPRK embassy Moscow  
Unid DPRK embassy clg DPRK embassy Moscow  
DPRK embassy Moscow clg DPRK embassy Warsaw  
DPRK embassy Moscow clg DPRK embassy Sofia  
DPRK embassy Moscow clg DPRK embassy Warsaw  
DPRK embassy Moscow wkg Permanent Mission Geneva  
DPRK embassy Moscow wkg DPRK embassy Stockholm  
DPRK embassy Moscow wkg DPRK embassy Rome  
DPRK embassy Moscow wkg DPRK embassy Stockholm  
DPRK embassy Moscow msg 4073 to Permanent Mission Geneva  
DPRK embassy Moscow wkg DPRK embassy Berlin  
DPRK embassy Moscow wkg DPRK embassy Rome  
DPRK embassy Moscow wkg DPRK embassy Rome  
DPRK embassy Moscow msg 4073 to Permanent Mission Geneva  
Unid DPRK embassy clg DPRK embassy Moscow  
Unid DPRK embassy clg DPRK embassy Moscow  
Unid DPRK embassy clg DPRK embassy Moscow  
DPRK embassy Moscow clg DPRK embassy Warsaw  
DPRK embassy Moscow clg DPRK embassy Sofia  
DPRK embassy Moscow clg DPRK embassy Warsaw  
DPRK embassy Moscow wkg Permanent Mission Geneva  
DPRK embassy Moscow wkg DPRK embassy Stockholm  
DPRK embassy Moscow wkg DPRK embassy Rome  
DPRK embassy Moscow wkg DPRK embassy Stockholm  
DPRK embassy Moscow wkg DPRK embassy Sofia  
DPRK embassy Moscow wkg Permanent Mission Geneva  
DPRK embassy Moscow wkg DPRK embassy Rome  
DPRK embassy Moscow wkg DPRK embassy Stockholm

16252 kHz, 30-12, 1234 UTC	DPRK embassy Rome wkg DPRK embassy Moscow
15500 kHz, 31-12, 0808 UJTC	DPRK embassy Moscow wkg DPRK embassy Bucharest
18650 kHz, 31-12, 1236 UJTC	DPRK embassy Moscow wkg DPRK Permanent VN Mission Geneve
13200 kHz, 31-12, 1233 UJTC	DPRK embassy Moscow message 4113 to DPRK embassy Warsaw
13200 kHz, 31-12, 1333 UJTC	DPRK embassy Moscow wkg DPRK embassy Sofia
16252 kHz, 31-12, 1231 UJTC	DPRK embassy Moscow wkg DPRK embassy Rome
16252 kHz, 31-12, 1304 UJTC	DPRK embassy Moscow wkg DPRK Permanent VN Mission Geneve
16252 kHz, 31-12, 1424 UJTC	DPRK embassy Moscow wkg DPRK Permanent VN Mission Geneve
18650 kHz, 31-12, 1527 UJTC	DPRK embassy Rome wkg DPRK embassy Moscow

## ***Diplomatic stations: Russia***

9041 kHz, 02-12, 0743 UTC, MFSK-66	Russian diplo
13518 kHz, 02-12, 0834 UTC, MFSK-66	Russian diplo
14377 kHz, 02-12, 0838 UTC, MFSK-6	MFA Moscow clg 432516: Russian embassy Bern
14405 kHz, 02-12, 0835 UTC, MFSK-66	Russian diplo
14615 kHz, 03-12, 0750 UTC, MFSK-6	MFA Moscow clg 125643: Russian embassy Ulaanbaatar
14631 kHz, 04-12, 0917 UTC, MFSK-6	MFA Moscow clg 362154: Russian embassy Athens
19878 kHz, 04-12, 1251 UTC, MFSK-6	MFA Moscow clg 231654: Russian embassy Abuja
20627 kHz, 05-12, 1328 UTC, MFSK-6	MFA Moscow clg 436512: Russian embassy Harare
14947 kHz, 05-12, 0756 UTC, MFSK-6	MFA Moscow clg 351264: Russian embassy Abu Dhabi
18197 kHz, 05-12, 0924 UTC, MFSK-6	MFA Moscow clg 645321: Russian Consulate General Ho Chi Minh City
14824 kHz, 06-12, 1026 UTC, MFSK-6	MFA Moscow clg 625413: Russian embassy Tel Aviv
16216 kHz, 06-12, 0931 UTC, MFSK-66	Russian diplo
16320 kHz, 06-12, 1341 UTC, MFSK-6	MFA Moscow clg 241563: Russian Consulate General Karachi
15810 kHz, 08-12, 1047 UTC, MFSK-6	MFA Moscow clg 145632: Russian embassy Algiers
17475 kHz, 09-12, 0817 UTC, MFSK-6	MFA Moscow clg 156234: Russian embassy Kampala
16117 kHz, 09-12, 0934 UTC, MFSK-6	MFA Moscow clg 463125: Russian embassy Rabat
18643 kHz, 09-12, 0941 UTC, Serdolik v2	Russian diplo
14955 kHz, 09-12, 1130 UTC, Serdolik v2	(MFSK+OFDM) Russian diplo
14955 kHz, 09-12, 1147 UTC, Serdolik v2	(MFSK+OFDM) Russian diplo
19142 kHz, 09-12, 1208 UTC, Serdolik v2	Russian diplo
12195 kHz, 13-12, 0834 UTC, MFSK-66	Russian diplo
12213 kHz, 13-12, 0837 UTC, MFSK-6	MFA Moscow 615243: Russian embassy Geneva
12195 kHz, 13-12, 0845 UTC, MFSK-66	Russian diplo
9288 kHz, 13-12, 0925 UTC, MFSK-66	Russian diplo
14698 kHz, 20-12, 1302 UTC, MFSK-66	Russian diplo
17468 kHz, 23-12, 0813 UTC, Serdolik v2	Russian diplo
17468 kHz, 23-12, 0817 UTC, Serdolik v2	Russian diplo
17468 kHz, 23-12, 0820 UTC, Serdolik v2	Russian diplo
17468 kHz, 23-12, 0823 UTC, Serdolik v2	Russian diplo
14846 kHz, 23-12, 0829 UTC, Serdolik v2	Russian diplo
17468 kHz, 23-12, 0820 UTC, Serdolik v2	Russian diplo
17468 kHz, 23-12, 0830 UTC, Serdolik v2	Russian diplo
20690 kHz, 23-12, 0831 UTC, MFSK-6	MFA Moscow clg 156234: Russian embassy Kampala
17466 kHz, 23-12, 0839 UTC, Serdolik v2	Russian diplo
17468 kHz, 23-12, 0847 UTC, Serdolik v2	Russian diplo
17470 kHz, 24-12, 1021 UTC, MFSK-6	MFA Moscow clg 216354: Russian Consulate General Chennai
17523 kHz, 24-12, 0815 UTC, MFSK-6	MFA Moscow clg 542136: Russian embassy Beijing
11076 kHz, 26-12, 0743 UTC, MFSK-66	Russian diplo
10960 kHz, 26-12, 1032 UTC, Serdolik v2	Russian diplo
09286 kHz, 27-12, 0929 UTC, MFSK-66	Russian diplo
11158 kHz, 27-12, 0751 UTC, Serdolik v2	Russian diplo
11156 kHz, 27-12, 0735 UTC, Serdolik v2	Russian diplo. Selcal
11158 kHz, 27-12, 0737 UTC, Serdolik v2	Russian diplo
11155 kHz, 27-12, 0741 UTC, MFSK-6	MFA Moscow clg 341265: Unid embassy
20605 kHz, 27-12, 1002 UTC, MFSK-6	MFA Moscow clg 256134: Russian embassy Abidjan



Russian embassy Athens rooftop antennas © Google Maps

## **CLANDESTINE / TARGETED RADIO & JAMMERS**

### **Russian-Ukrainian radio war**

6911 kHz, 18-12, 2130 UTC, USB  
 7032 kHz, 20-12, 0613 UTC, USB  
 7546 kHz, 20-12, 0613 UTC, USB  
 9310 kHz, 20-12, 0613 UTC, USB  
 6911 kHz, 20-12, 0613 UTC, USB  
 7060 kHz, 20-12, 0638 UTC, LSB  
 7055 kHz, 20-12, 0640 UTC, LSB  
 6911 kHz, 20-12, 0642 UTC, USB  
 14110 kHz, 20-12, 1157 UTC, USB  
 6911 kHz, 25-12, 2049 UTC, USB  
 14117 kHz, 26-12, 1512 UTC, USB  
 7050 kHz, 26-12, 1520 UTC, LSB

Stalingrad clock  
 Russian national anthem  
 Russian national anthem  
 Russian national anthem  
 Russian national anthem  
 Anti Russia message. Loop broadcast. On top of a Russian station  
 Various stations on top of each other. All loop broadcasts  
 Stalingrad clock  
 Anti Russia loop broadcast  
 Stalingrad clock  
 Ukrainian anti Putin station  
 Ukrainian anti Putin station

## **UTILITY ROUND-UP**

### **Unid Station a.k.a. New Buzzer**

5782 kHz, 01-12, 1750 UTC  
 5950 kHz, 01-12, 1750 UTC  
 6930 kHz, 01-12, 1750 UTC

5782 kHz, 08-12, 1920 UTC  
 5950 kHz, 08-12, 1920 UTC  
 6930 kHz, 08-12, 1920 UTC

5782 kHz, 12-12, 1953 UTC  
 5950 kHz, 12-12, 1953 UTC  
 6930 kHz, 12-12, 1953 UTC

5782 kHz, 01-12, 1940 UTC  
 5950 kHz, 01-12, 1940 UTC  
 6930 kHz, 01-12, 1940 UTC

5782 kHz, 09-12, 1705 UTC  
 5950 kHz, 09-12, 1705 UTC  
 6930 kHz, 09-12, 1705 UTC

8365 kHz, 17-12, 1535 UTC

5782 kHz, 06-12, 2010 UTC  
 5950 kHz, 06-12, 2010 UTC  
 6930 kHz, 06-12, 2010 UTC

5782 kHz, 10-12, 1846 UTC  
 5950 kHz, 10-12, 1846 UTC  
 6930 kHz, 10-12, 1846 UTC

5782 kHz, 18-12, 2128 UTC  
 5950 kHz, 18-12, 2128 UTC  
 6930 kHz, 18-12, 2128 UTC

5782 kHz, 19-12, 1946 UTC  
5950 kHz, 19-12, 1946 UTC  
6930 kHz, 19-12, 1946 UTC

5782 kHz, 22-12, 2000 UTC  
5950 kHz, 22-12, 2000 UTC  
6930 kHz, 22-12, 2000 UTC

5782 kHz, 27-12, 1911 UTC  
5950 kHz, 27-12, 1911 UTC  
6930 kHz, 27-12, 1911 UTC

5782 kHz, 20-12, 2005 UTC  
5950 kHz, 20-12, 2005 UTC  
6930 kHz, 20-12, 2005 UTC

5782 kHz, 25-12, 2047 UTC  
5950 kHz, 25-12, 2047 UTC  
6930 kHz, 25-12, 2047 UTC

5782 kHz, 29-12, 1915 UTC  
5950 kHz, 29-12, 1915 UTC  
6930 kHz, 29-12, 1915 UTC

## **CONTRIBUTORS**

AB	Ary Boender, Netherlands
AB-ATN	Ary Boender via remote rx Bonaire
AB-BLR	Ary Boender via remote rx Belarus
AB-FIN	Ary Boender via remote rx Finland
AB-GRC	Ary Boender via remote rx Greece
AB-HNG	Ary Boender via remote rx Hungary
AB-POL	Ary Boender via remote rx Poland
AB-RUS	Ary Boender via remote rx Russia
AB-S	Ary Boender via remote rx Sweden
CL	Carlos Latuff, Brazil
CrLa	Cryptlab
Dan	Daniel LU5EMM, Argentina
Fspy	Feline Spy SWL
HFD	Hans-Friedrich Dumrese, Germany
HFD-J	Hans-Friedrich Dumrese via remote rx Japan
HFD-POL	Hans-Friedrich Dumrese via remote rx Poland
HFD-RUS	Hans-Friedrich Dumrese via remote rx Russia
HFD-USA	Hans-Friedrich Dumrese via remote rx USA
Lac	Lazycrypt
Moon	Moonlight (Dave AU)
PP1	Patrice Privat, France
PY	Pierre Ynard, France and via remote rx
RO	Rando One, Sweden
Rycat	Rycat via Priyom
Subilo	Subilo

## LOGS SECTION

Code	Date	UTC	Freq	Day	Details	Mode	Contributor
BUL	6-12	0821	9375	Fri	Bulgarian diplo.	RFSM	(AB)
BUL	6-12	0923	14755	Fri	Bulgarian diplo.	RFSM	(AB)
BUL	6-12	0937	17440	Fri	Bulgarian diplo.	RFSM	(AB)
BUL	6-12	1122	18515	Fri	Bulgarian diplo.	RFSM	(AB)
BUL	6-12	1356	18455	Fri	Bulgarian diplo.	RFSM	(AB)
BUL	6-12	1452	20955	Fri	Bulgarian diplo.	RFSM	(AB)
BUL	9-12	0920	14755	Mon	Bulgarian diplo.	RFSM	(AB)
BUL	9-12	1122	18515	Mon	Bulgarian diplo.	RFSM	(AB)
BUL	9-12	1322	17440	Mon	Bulgarian diplo.	RFSM	(AB)
BUL	9-12	1356	18455	Mon	Bulgarian diplo.	RFSM	(AB)
BUL	9-12	1449	20955	Mon	Bulgarian diplo.	RFSM	(AB)
BUL	10-12	0920	14755	Tue	Bulgarian diplo.	RFSM	(AB)
BUL	10-12	1124	18515	Tue	Bulgarian diplo.	RFSM	(AB)
BUL	10-12	1357	18455	Tue	Bulgarian diplo.	RFSM	(AB)
BUL	10-12	1456	20955	Tue	Bulgarian diplo.	RFSM	(AB)
BUL	20-12	0920	14755	Fri	Bulgarian diplo.	RFSM	(AB)
BUL	20-12	1120	18515	Fri	Bulgarian diplo.	RFSM	(AB)
BUL	20-12	1255	16035	Fri	Bulgarian diplo.	RFSM	(AB)
BUL	20-12	1320	17440	Fri	Bulgarian diplo.	RFSM	(AB)
BUL	20-12	1355	18455	Fri	Bulgarian diplo.	RFSM	(AB)
BUL	27-12	0815	18455	Fri	Bulgarian diplo.	RFSM	(AB)
BUL	27-12	0926	14755	Fri	Bulgarian diplo.	RFSM	(AB)
BUL	27-12	0935	17440	Fri	Bulgarian diplo.	RFSM	(AB)
BUL	27-12	0948	18515	Fri	Bulgarian diplo.	RFSM	(AB)
E06	16-12	0956	10755	Mon	i.p. 975 (R). Ended at 1046z)	USB	(AB)
E06	28-12	1600	9075	Sat	480 139 47 02358 59012 15276 ... 31819 63623 85240 139 47 00000	USB	(AB)
E06	28-12	1630	6792	Sat	480 139 47 02358 59012 15276 ... 31819 63623 85240 139 47 00000	USB	(AB/Lac/HFD)
E06	29-12	0730	11487	Sun	480 139 47 02358 59012 15276 ... 31819 63623 85240 139 47 00000	USB	(AB/Lac/HFD)
E06	29-12	0800	9371	Sun	480 139 47 02358 59012 15276 ... 31819 63623 85240 139 47 00000	USB	(AB-POL/HFD)
E07	3-12	1500	13559	Tue	512 512 512 000	USB	(AB/Lac/HFD)
E07	3-12	1520	12139	Tue	512 512 512 000	USB	(AB/HFD)
E07	5-12	1410	10226	Thu	674 674 674 1 1597 144 1597 144 01667 27678 19658 ... 82538 12751 11786 000 000	USB	(AB/Lac/HFD)
E07	5-12	1430	9226	Thu	674 674 674 1 1597 144 1597 144 01667 27678 19658 ... 82538 12751 11786 000 000	USB	(AB/Lac/HFD)
E07	5-12	1450	8126	Thu	674 674 674 1 1597 144 1597 144 01667 27678 19658 ... 82538 12751 11786 000 000	USB	(AB/Lac/HFD)
E07	6-12	1500	13539	Fri	512 512 512 000	USB	(AB)
E07	6-12	1520	12139	Fri	512 512 512 000	USB	(AB)
E07	7-12	1410	10226	Sat	674 674 674 1 1597 144 1597 144 01667 27678 19658 ... 82538 12751 11786 000 000	USB	(AB)
E07	7-12	1430	9226	Sat	674 674 674 1 1597 144 1597 144 01667 27678 19658 ... 82538 12751 11786 000 000	USB	(AB)

E07	7-12	1450	8126	Sat	674 674 674 1 1597 144 1597 144 01667 27678 19658 ... 82538 12751 11786 000 000	USB	(AB)
E07	10-12	1500	13539	Tue	512 512 512 1 1333 121 1333 121 56068 99619 88118 ... 68227 05318 76199 000 000	USB	(AB/Lac)
E07	10-12	1520	12139	Tue	512 512 512 1 1333 121 1333 121 56068 99619 88118 ... 68227 05318 76199 000 000	USB	(AB/Lac)
E07	10-12	1540	10239	Tue	512 512 512 1 1333 121 1333 121 56068 99619 88118 ... 68227 05318 76199 000 000	USB	(AB/Lac)
E07	12-12	1410	10226	Thu	674 674 674 000	USB	(AB)
E07	12-12	1430	9226	Thu	674 674 674 000	USB	(AB)
E07	13-12	1500	13539	Fri	512 512 512 1 1333 121 1333 121 56068 99619 88118 ... 68227 05318 76199 000 000	USB	(AB)
E07	13-12	1520	12139	Fri	512 512 512 1 1333 121 1333 121 56068 99619 88118 ... 68227 05318 76199 000 000	USB	(AB)
E07	13-12	1540	10239	Fri	512 512 512 1 1333 121 1333 121 56068 99619 88118 ... 68227 05318 76199 000 000	USB	(AB)
E07	14-12	1410	10226	Sat	674 674 674 000	USB	(AB)
E07	14-12	1430	9226	Sat	674 674 674 000	USB	(AB)
E07	17-12	1500	13539	Tue	512 512 512 000	USB	(AB)
E07	17-12	1520	12139	Tue	512 512 512 000	USB	(AB)
E07	19-12	1410	10226	Thu	674 674 674 1 372 92 372 92 52893 42754 81096 ... 84872 20211 06678 000 000	USB	(AB/Lac)
E07	19-12	1430	9226	Thu	674 674 674 1 372 92 372 92 52893 42754 81096 ... 84872 20211 06678 000 000	USB	(AB/Lac)
E07	19-12	1450	8126	Thu	674 674 674 1 372 92 372 92 52893 42754 81096 ... 84872 20211 06678 000 000	USB	(AB/Lac)
E07	20-12	1500	13539	Fri	512 512 512 000	USB	(AB)
E07	20-12	1520	12139	Fri	512 512 512 000	USB	(AB)
E07	21-12	1410	10226	Sat	674 674 674 1 372 92 372 92 52893 42754 81096 ... 84872 20211 06678 000 000	USB	(AB)
E07	21-12	1430	9226	Sat	674 674 674 1 372 92 372 92 52893 42754 81096 ... 84872 20211 06678 000 000	USB	(AB)
E07	21-12	1450	8126	Sat	674 674 674 1 372 92 372 92 52893 42754 81096 ... 84872 20211 06678 000 000	USB	(AB)
E07	21-12	1520	12139	Sat	512 512 512 000	USB	(AB)
E07	24-12	1500	13539	Tue	512 512 512 1 1552 83 1552 83 89658 44099 63568 ... 77556 87077 75867 000 000	USB	(AB/Lac)
E07	24-12	1500	13539	Tue	512 1 1552 83	USB	(Lac)
E07	24-12	1520	12139	Tue	512 512 512 1 1552 83 1552 83 89658 44099 63568 ... 77556 87077 75867 000 000	USB	(AB/Lac)
E07	24-12	1520	12139	Tue	512 1 1552 83	USB	(Lac)
E07	24-12	1540	10239	Tue	512 512 512 1 1552 83 1552 83 89658 44099 63568 ... 77556 87077 75867 000 000	USB	(AB/Lac)
E07	24-12	1540	10239	Tue	512 1 1552 83	USB	(Lac)
E07	26-12	1410	10226	Thu	674 674 674 000	USB	(AB)
E07	26-12	1430	9226	Thu	674 674 674 000	USB	(AB)
E07	27-12	1500	13539	Fri	512 512 512 1 1552 83 1552 83 89658 44099 63568 ... 77556 87077 75867 000 000	USB	(AB)
E07	27-12	1520	12139	Fri	512 512 512 1 1552 83 1552 83 89658 44099 63568 ... 77556 87077 75867 000 000	USB	(AB)
E07	27-12	1540	10239	Fri	512 512 512 1 1552 83 1552 83 89658 44099 63568 ... 77556 87077 75867 000 000	USB	(AB)
E07	28-12	1410	10226	Sat	674 674 674 000	USB	(AB)
E07	28-12	1430	9226	Sat	674 674 674 000	USB	(AB)
E07	31-12	1500	13539	Tue	512 512 512 000	USB	(AB)
E11	1-12	0600	7850	Sun	352/00 Out	USB	(AB)
E11	1-12	0600	7850	Sun	352/00 Out	USB	(AB)
E11	1-12	0700	5371	Sun	491/00 Out	USB	(AB)
E11	1-12	1605	5432	Sun	236/00 Out	USB	(AB)
E11	1-12	1645	4909	Sun	363/00 Out	USB	(AB)
E11	1-12	1745	12924	Sun	240/00 Out	USB	(AB)

E11	1-12	1815	6849	Sun	929/00 Out	USB	(AB/Lac)
E11	1-12	1910	10487	Sun	611/00 Out	USB	(AB-POL)
E11	1-12	2000	5082	Sun	520/00 Out	USB	(AB)
E11	2-12	0315	12089	Mon	251/00 Out	USB	(TM)
E11	2-12	0600	23004	Mon	945/00 Out	USB	(AB/Lac)
E11	2-12	0715	20167	Mon	753/00 Out	USB	(AB/Lac)
E11	2-12	0820	14611	Mon	134/00 Out	USB	(Lac)
E11	2-12	0830	23353	Mon	188/00 Out	USB	(AB-POL)
E11	2-12	0845	12067	Mon	714/00 Out	USB	(AB/Lac)
E11	2-12	0900	15915	Mon	537/00 Out	USB	(AB)
E11	2-12	1045	14410	Mon	696/00 Out	USB	(Lac)
E11	2-12	1745	12924	Mon	242/00 Out	USB	(AB/Lac)
E11	3-12	0700	6804	Tue	570/00 Out	USB	(AB)
E11	3-12	0700	6804	Tue	570/00 Out	USB	(AB)
E11	3-12	0715	14975	Tue	639/00 Out	USB	(AB/Lac)
E11	3-12	0820	14611	Tue	134/00 Out	USB	(AB)
E11	3-12	1000	9079	Tue	304/00 Out	USB	(AB/Lac)
E11	3-12	1605	5432	Tue	236/00 Out	USB	(AB)
E11	4-12	0315	12089	Wed	252/00 Out	USB	(TM)
E11	4-12	0600	23004	Wed	941/00 Out	USB	(AB-POL)
E11	4-12	0715	20167	Wed	750/00 Out	USB	(AB)
E11	4-12	0820	14611	Wed	131/00 Out	USB	(AB/Lac)
E11	4-12	0845	12067	Wed	711/00 Out	USB	(AB/Lac)
E11	4-12	0900	15915	Wed	537/00 Out	USB	(AB/Lac)
E11	4-12	0930	7469	Wed	277/00 Out	USB	(AB/Lac)
E11	4-12	1045	14410	Wed	698/00 Out	USB	(AB/Lac)
E11	4-12	1610	4505	Wed	390/00 Out	USB	(AB)
E11	4-12	1715	5089	Wed	974/00 Out	USB	(AB)
E11	5-12	0645	7840	Thu	511/00 Out	USB	(AB/PY)
E11	5-12	0930	7469	Thu	270/00 Out	USB	(AB)
E11	6-12	0600	7850	Fri	352/00 Out	USB	(AB)
E11	6-12	0700	6804	Fri	577/00 Out	USB	(AB)
E11	6-12	0715	14975	Fri	633/00 Out	USB	(AB)
E11	6-12	0830	23353	Fri	181/00 Out	USB	(AB)
E11	6-12	1000	9079	Fri	309/00 Out	USB	(AB)
E11	6-12	1715	5082	Fri	976/00 Out	USB	(AB)
E11	6-12	1910	10487	Fri	613/00 Out (tentative, barely audible)	USB	(AB)
E11	7-12	0700	5371	Sat	498/00 Out	USB	(AB)
E11	7-12	1610	4505	Sat	394/00 Out	USB	(AB)
E11	8-12	0700	5371	Sun	492/00 Out	USB	(AB)
E11	8-12	1605	5432	Sun	238/00 Out	USB	(AB)
E11	8-12	1745	12924	Sun	240/00 Out	USB	(AB)

E11	9-12	0745	10213	Mon	262/00 Out	USB	(AB/Lac)
E11	9-12	0900	15915	Mon	532/00 Out	USB	(AB/Lac)
E11	9-12	1300	4909	Mon	319/00 Out	USB	(AB-POL)
E11	9-12	1745	12924	Mon	248/00 Out	USB	(AB-POL)
E11	9-12	1900	6849	Mon	644/00 Out	USB	(AB)
E11	10-12	0505	12153	Tue	330/00 Out	USB	(AB)
E11	10-12	0645	7840	Tue	519/00 Out	USB	(AB/PY)
E11	10-12	0745	13908	Tue	223/00 Out	USB	(AB/Lac)
E11	10-12	0820	14611	Tue	136/00 Out	USB	(AB)
E11	10-12	0845	17378	Tue	150/00 Out	USB	(AB)
E11	10-12	1000	9079	Tue	300/00 Out	USB	(AB)
E11	10-12	1205	11559	Tue	462/00 Out	USB	(AB)
E11	10-12	1430	13363	Tue	917/00 Out	USB	(AB/Lac)
E11	11-12	0600	23004	Wed	946/00 Out	USB	(AB-POL/Lac)
E11	11-12	0745	17378	Wed	348/00 Out	USB	(AB/Lac)
E11	11-12	0820	14611	Wed	136/00 Out	USB	(AB/Lac)
E11	11-12	0900	15915	Wed	536/00 Out	USB	(AB/Lac)
E11	11-12	0930	7469	Wed	275/00 Out	USB	(AB)
E11	11-12	1205	11559	Wed	460/00 Out	USB	(AB)
E11	11-12	1610	4505	Wed	395/00 Out	USB	(AB)
E11	11-12	1715	5089	Wed	977/00 Out	USB	(AB)
E11	12-12	0505	12153	Thu	332/00 Out	USB	(TM)
E11	12-12	0645	7840	Thu	515/00 Out	USB	(AB/PY)
E11	12-12	0745	13908	Thu	229/00 Out	USB	(AB)
E11	12-12	0820	11104	Thu	430/00 Out	USB	(AB)
E11	12-12	0845	17378	Thu	157/00 Out	USB	(AB)
E11	12-12	0930	7469	Thu	277/00 Out	USB	(AB)
E11	12-12	1300	4909	Thu	315/00 Out	USB	(AB)
E11	12-12	1530	5409	Thu	264/00 Out	USB	(AB)
E11	12-12	1900	6849	Thu	643/00 Out	USB	(AB)
E11	12-12	2000	5082	Thu	520/00 Out	USB	(AB)
E11	13-12	0600	7850	Fri	353/00 Out	USB	(AB)
E11	13-12	0745	17378	Fri	343/00 Out	USB	(AB)
E11	13-12	0820	11104	Fri	432/00 Out	USB	(AB)
E11	13-12	1000	9079	Fri	308/00 Out	USB	(AB)
E11	13-12	1715	5082	Fri	976/00 Out	USB	(AB)
E11	13-12	1815	6849	Fri	922/00 Out	USB	(AB)
E11	14-12	0700	5371	Sat	491/00 Out	USB	(AB)
E11	14-12	1430	13363	Sat	912/00 Out	USB	(AB)
E11	15-12	0700	5371	Sun	Test tone. No transmission heard	USB	(AB)
E11	15-12	1645	4909	Sun	365/00 Out	USB	(AB)
E11	16-12	0830	23353	Mon	183/00 Out	USB	(AB-POL/Lac)



E11	16-12	0845	12067	Mon	719/00 Out	USB	(AB)
E11	16-12	0900	15915	Mon	536/00 Out	USB	(AB)
E11	16-12	1045	14410	Mon	697/00 Out	USB	(AB)
E11	16-12	1300	4909	Mon	313/00 Out	USB	(AB-POL)
E11	16-12	1745	12924	Mon	246/00 Out	USB	(AB-POL)
E11	16-12	1900	6849	Mon	641/00 Out	USB	(AB)
E11	17-12	0700	6804	Tue	577/00 Out	USB	(AB/Lac)
E11	17-12	0715	20167	Tue	752/00 Out	USB	(Lac)
E11	17-12	0745	13908	Tue	224/00 Out	USB	(AB/Lac)
E11	17-12	0820	14611	Tue	131/00 Out	USB	(AB/Lac)
E11	17-12	0845	17378	Tue	150/00 Out	USB	(AB/Lac)
E11	17-12	1205	11559	Tue	465/00 Out	USB	(AB)
E11	17-12	1430	13363	Tue	915/00 Out	USB	(AB)
E11	17-12	1605	5432	Tue	231/00 Out	USB	(AB)
E11	18-12	0600	23004	Wed	946/00 Out	USB	(AB-POL)
E11	18-12	0715	20167	Wed	752/00 Out	USB	(AB-POL)
E11	18-12	0745	17378	Wed	348/00 Out	USB	(AB)
E11	18-12	0820	14611	Wed	134/00 Out	USB	(AB)
E11	18-12	0845	12067	Wed	714/00 Out	USB	(AB)
E11	18-12	0900	15915	Wed	532/00 Out	USB	(AB)
E11	18-12	1045	14410	Wed	697/00 Out	USB	(AB)
E11	18-12	1205	11559	Wed	464/00 Out	USB	(AB)
E11	18-12	1610	4505	Wed	391/00 Out	USB	(AB)
E11	19-12	0745	13908	Thu	228/00 Out	USB	(AB)
E11	19-12	1300	4909	Thu	Test tone. No transmission	USB	(AB)
E11	19-12	1530	5409	Thu	264/00 Out	USB	(AB)
E11	19-12	1900	6849	Thu	648/00 Out	USB	(AB)
E11	19-12	2000	5082	Thu	521/00 Out	USB	(AB)
E11	20-12	0600	7850	Fri	350/00 Out	USB	(AB)
E11	20-12	0700	6804	Fri	573/00 Out	USB	(AB)
E11	20-12	0715	14975	Fri	633/00 Out	USB	(AB)
E11	20-12	0745	17378	Fri	344/00 Out	USB	(AB)
E11	20-12	0820	11104	Fri	434/00 Out	USB	(AB)
E11	20-12	0830	23353	Fri	188/00 Out	USB	(AB)
E11	20-12	1815	6849	Fri	921/00 Out	USB	(AB)
E11	20-12	1910	10487	Fri	613/00 Out	USB	(AB)
E11	21-12	1430	13363	Sat	912/00 Out	USB	(AB)
E11	21-12	1610	4505	Sat	394/00 Out	USB	(AB)
E11	21-12	1645	4909	Sat	364/00 Out	USB	(AB)
E11	22-12	0600	7850	Sun	352/00 Out	USB	(AB)
E11	22-12	1605	5432	Sun	235/00 Out	USB	(AB)
E11	22-12	1645	4909	Sun	368/00 Out	USB	(AB)

E11	22-12	1745	12924	Sun	246/00 Out (tentative, barely audible)	USB	(AB-POL)
E11	22-12	1910	10487	Sun	611/00 Out	USB	(AB)
E11	22-12	2000	5082	Sun	520/00 Out	USB	(AB)
E11	23-12	0715	20167	Mon	759/00 Out	USB	(AB)
E11	23-12	0745	10213	Mon	262/00 Out	USB	(AB)
E11	23-12	0830	23353	Mon	185/00 Out	USB	(AB-POL)
E11	23-12	0845	12067	Mon	716/00 Out	USB	(AB)
E11	23-12	1045	14410	Mon	697/00 Out	USB	(AB)
E11	23-12	1300	4909	Mon	319/00 Out	USB	(AB-POL)
E11	23-12	1900	6849	Mon	643/00 Out	USB	(AB)
E11	24-12	0505	12153	Tue	333/00 Out (tentative, barely audible)	USB	(TM)
E11	24-12	0645	7840	Tue	510/00 Out	USB	(AB/PY)
E11	24-12	0700	6804	Tue	573/00 Out	USB	(AB)
E11	24-12	0715	14975	Tue	636/00 Out	USB	(AB)
E11	24-12	0745	13908	Tue	229/00 Out	USB	(AB)
E11	24-12	0845	17378	Tue	154/00 Out	USB	(AB)
E11	24-12	1000	9079	Tue	309/00 Out	USB	(AB)
E11	24-12	1205	11559	Tue	462/00 Out	USB	(AB)
E11	24-12	1605	5432	Tue	238/00 Out	USB	(AB)
E11	25-12	0715	20167	Wed	759/00 Out	USB	(AB-POL)
E11	25-12	0745	17378	Wed	349/00 Out	USB	(AB)
E11	25-12	0845	12067	Wed	719/00 Out	USB	(AB)
E11	25-12	0930	7469	Wed	276/00 Out	USB	(AB/Lac)
E11	25-12	1045	14410	Wed	696/00 Out	USB	(AB)
E11	25-12	1205	11559	Wed	460/00 Out	USB	(AB)
E11	25-12	1715	5089	Wed	972/00 Out	USB	(AB)
E11	26-12	0505	12153	Thu	332/00 Out	USB	(TM)
E11	26-12	0645	7840	Thu	519/00 Out	USB	(AB/PY)
E11	26-12	0745	13908	Thu	229/00 Out	USB	(AB)
E11	26-12	0820	11104	Thu	430/00 Out	USB	(AB)
E11	26-12	0845	17378	Thu	154/00 Out	USB	(AB)
E11	26-12	0930	7469	Thu	271/00 Out	USB	(AB)
E11	26-12	1300	4909	Thu	314/00 Out	USB	(AB)
E11	26-12	1530	5409	Thu	264/00 Out	USB	(AB)
E11	26-12	1900	6849	Thu	648/00 Out	USB	(AB)
E11	26-12	2000	5082	Thu	524/00 Out	USB	(AB)
E11	27-12	1715	5082	Fri	970/00 Out	USB	(AB)
E11	27-12	1815	6849	Fri	921/00 Out	USB	(AB)
E11	27-12	1910	10487	Fri	614/00 Out	USB	(AB-POL)
E11	28-12	0700	5371	Sat	495/00 Out	USB	(AB)
E11	28-12	1430	13363	Sat	919/00 Out	USB	(AB)
E11	28-12	1645	4909	Sat	364/00 Out	USB	(AB/Lac)

E11	29-12	0700	5371	Sun	498/00 Out	USB	(AB)
E11	29-12	1605	5432	Sun	231/00 Out	USB	(AB)
E11	29-12	1645	4909	Sun	367/00 Out	USB	(AB)
E11	29-12	1815	6849	Sun	922/00 Out	USB	(AB)
E11	29-12	1910	10487	Sun	612/00 Out	USB	(AB)
E11	29-12	2000	5082	Sun	520/00 Out	USB	(AB)
E11	30-12	0600	23004	Mon	941/00 Out	USB	(AB-POL)
E11	30-12	0715	20167	Mon	753/00 Out	USB	(AB)
E11	30-12	0745	10213	Mon	264/00 Out	USB	(AB/Lac)
E11	30-12	0845	12067	Mon	718/00 Out	USB	(AB/Lac)
E11	30-12	0900	15915	Mon	534/00 Out	USB	(AB/Lac)
E11	30-12	1045	14410	Mon	693/00 Out	USB	(AB/Lac)
E11	30-12	1300	4909	Mon	313/00 Out	USB	(AB-POL)
E11	30-12	1745	12924	Mon	247/00 Out	USB	(AB-POL)
E11	30-12	1900	6849	Mon	643/00 Out	USB	(AB)
E11	31-12	0645	7840	Tue	510/00 Out	USB	(AB/PY)
E11	31-12	0700	6804	Tue	573/00 Out	USB	(AB/Lac)
E11	31-12	0715	14975	Tue	633/00 Out	USB	(AB/Lac)
E11	31-12	0745	13908	Tue	221/00 Out	USB	(AB/Lac)
E11	31-12	0820	14611	Tue	131/00 Out	USB	(AB)
E11	31-12	0845	17378	Tue	151/00 Out	USB	(AB/Lac)
E11	31-12	1000	9079	Tue	304/00 Out	USB	(AB)
E11	31-12	1205	11559	Tue	461/00 Out	USB	(AB)
E11	31-12	1430	13363	Tue	912/00 Out	USB	(AB)
E11	31-12	1605	5432	Tue	231/00 Out	USB	(AB)
E11a	2-12	0745	10213	Mon	260/38 Attention 11293 21988 07414 ... 09140 77207 44748 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	2-12	1300	4909	Mon	313/36 Attention 87739 12293 34497 ... 63206 28077 74878 Attention (msg rptd) Out	USB	(AB-POL)
E11a	2-12	1900	6849	Mon	649/36 Attention 76104 08730 40209 ... 91181 48747 12250 Attention (msg rptd) Out	USB	(AB)
E11a	3-12	0505	12153	Tue	338/35 Attention 08319 96882 17189 ... 90300 72045 03243 Attention (msg rptd) Out	USB	(TM)
E11a	3-12	0745	13908	Tue	228/31 Attention 74688 31361 10124 ... 08281 37976 02315 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	3-12	1205	11559	Tue	469/40 Attention 59732 73977 83696 ... 76140 27493 29337 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	3-12	1430	13363	Tue	915/34 Attention 20089 69666 78106 ... 42328 25726 12564 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	4-12	0745	17378	Wed	346/39 Attention 05989 14130 39931 ... 30856 90232 08799 Attention (msg rptd) Out	USB	(AB)
E11a	4-12	1205	11559	Wed	469/40 Attention 59732 73977 83696 ... 76140 27493 29337 Attention (msg rptd) Out	USB	(AB)
E11a	5-12	0505	12153	Thu	338/35 Attention 08319 96882 17189 ... 90300 72045 03243 Attention (msg rptd) Out	USB	(TM)
E11a	5-12	0745	13908	Thu	228/31 Attention 74688 31361 10124 ... 08281 37976 02315 Attention (msg rptd) Out	USB	(AB)
E11a	5-12	0745	13908	Thu	288/31 Attention 74688 31361 10124 ... 08281 37976 02315 Attention (msg rptd) Out	USB	(Lac)
E11a	5-12	0820	11104	Thu	439/31 Attention 73973 93568 91879 ... 71970 09876 77081 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	5-12	0845	17378	Thu	156/32 Attention 88162 22563 74584 ... 97901 19884 87407 Attention (msg rptd) Out	USB	(Lac)
E11a	5-12	1530	5409	Thu	260/38 Attention 11293 21988 07414 ... 09140 77207 44748 Attention (msg rptd) Out	USB	(AB)
E11a	5-12	1900	6849	Thu	649/36 Attention 76104 08730 40209 ... 91181 48747 12250 Attention (msg rptd) Out	USB	(AB)
E11a	5-12	2000	5082	Thu	520/37 Attention 98925 87719 04317 ... 85057 19288 72811 Attention (msg rptd) Out	USB	(AB/Lac)

E11a	6-12	0745	17378	Fri	346/39 Attention 05989 14130 39931 ... 30856 90232 08799 Attention (msg rptd) Out	USB	(AB)
E11a	6-12	0820	11104	Fri	439/31 Attention 73973 93568 91879 ... 71970 09876 77081 Attention (msg rptd) Out	USB	(AB)
E11a	6-12	1815	6849	Fri	922/38 Attention 62120 73550 45013 ... 14984 63613 24933 Attention (msg rptd) Out	USB	(AB)
E11a	7-12	1430	13363	Sat	915/34 Attention 20089 69666 78106 ... 42328 25726 12564 Attention (msg rptd) Out	USB	(AB)
E11a	7-12	1645	4909	Sat	367/32 Attention 62075 62552 02186 ... 22819 87022 19288 Attention (msg rptd) Out	USB	(AB)
E11a	8-12	1645	4909	Sun	367/32 Attention 62075 62552 02186 ... 22819 87022 19288 Attention (msg rptd) Out	USB	(AB)
E11a	8-12	1815	6849	Sun	922/38 Attention 62120 73550 45013 ... 14984 63613 24933 Attention (msg rptd) Out	USB	(AB)
E11a	8-12	2000	5082	Sun	520/37 Attention 98925 87719 04317 ... 85057 19288 72811 Attention (msg rptd) Out	USB	(AB)
E11a	9-12	0715	20167	Mon	759/32 Attention 06145 42566 55182 ... 18575 64502 27905 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	9-12	0830	23353	Mon	182/37 Attention 07801 72094 83984 ... 35401 83959 32571 Attention (msg rptd) Out	USB	(AB-POL/Lac)
E11a	9-12	0845	12067	Mon	713/39 Attention 84826 43890 57750 ... 20410 07077 56932 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	9-12	1045	14410	Mon	696/28 Attention 37052 27772 08165 ... 84722 10205 01612 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	10-12	0700	6804	Tue	570/33 Attention 06620 79119 63303 ... 38245 15277 64796 Attention (msg rptd) Out	USB	(Lac)
E11a	10-12	0715	14975	Tue	633/38 Attention 68694 59890 32683 ... 90237 04519 63571 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	10-12	1605	5432	Tue	233/35 Attention 45784 39291 82680 ... 31093 75453 46107 Attention (msg rptd) Out	USB	(AB)
E11a	11-12	0845	12067	Wed	713/39 Attention 84826 43890 57750 ... 20410 07077 56932 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	11-12	1045	14410	Wed	696/28 Attention 37052 27772 08165 ... 84722 10205 01612 Attention (msg rptd) Out	USB	(AB)
E11a	13-12	0700	6804	Fri	570/33 Attention 06620 79119 63303 ... 38245 15277 64796 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	13-12	0715	14975	Fri	633/38 Attention 68694 59890 32683 ... 90237 04519 63571 Attention (msg rptd) Out	USB	(AB)
E11a	13-12	0830	23353	Fri	182/37 Attention 07801 72094 83984 ... 35401 83959 32571 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	13-12	1910	10487	Fri	612/36 Attention 13855 77456 19864 ... 66049 34756 59829 Attention (msg rptd) Out	USB	(AB-POL)
E11a	15-12	1605	5432	Sun	233/35 Attention 45784 39291 82680 ... 31093 75453 46107 Attention (msg rptd) Out	USB	(AB)
E11a	17-12	1000	9079	Tue	300/38 Attention 31263 88077 67760 ... 68302 16356 92879 Attention (msg rptd) Out	USB	(AB)
E11a	18-12	0930	7469	Wed	279/34 Attention 54687 77781 63826 ... 13792 05245 39158 Attention (msg rptd) Out	USB	(AB)
E11a	18-12	1715	5089	Wed	972/35 Attention 83266 68603 78108 ... 34860 54694 34176 Attention (msg rptd) Out	USB	(AB)
E11a	19-12	0645	7840	Thu	517/39 Attention 00614 08355 08246 ... 73862 63504 09564 Attention (msg rptd) Out	USB	(AB/PY)
E11a	20-12	1000	9079	Fri	300/38 Attention 31263 88077 67760 ... 68302 16356 92879 Attention (msg rptd) Out	USB	(AB)
E11a	20-12	1715	5082	Fri	972/35 Attention 83266 68603 78108 ... 34860 54694 34176 Attention (msg rptd) Out	USB	(AB)
E11a	21-12	0700	5371	Sat	496/33 Attention 98715 10487 49944 ... 81774 50078 47026 Attention (msg rptd) Out	USB	(AB)
E11a	22-12	0700	5371	Sun	496/33 Attention 98715 10487 49944 ... 81774 50078 47026 Attention (msg rptd) Out	USB	(AB)
E11a	23-12	0900	15915	Mon	533/38 Attention 72856 76166 71120 ... 06339 96721 71010 Attention (msg rptd) Out	USB	(AB)
E11a	23-12	1745	12924	Mon	247/35 Attention 01310 78412 25965 ... 89018 45246 76600 Attention (msg rptd) Out	USB	(AB-POL)
E11a	24-12	0820	14611	Tue	133/31 Attention 37027 55867 53916 ... 30441 67337 57460 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	25-12	0820	14611	Wed	133/31 Attention 37027 55867 53916 ... 30441 67337 57460 Attention (msg rptd) Out	USB	(AB)
E11a	25-12	0900	15915	Wed	533/38 Attention 72856 76166 71120 ... 06339 96721 71010 Attention (msg rptd) Out	USB	(AB)
E11a	25-12	1610	4505	Wed	396/40 Attention 08300 72359 80004 ... 90621 71996 57883 Attention (msg rptd) Out	USB	(AB)
E11a	28-12	1610	4505	Sat	396/40 Attention 08300 72359 80004 ... 90621 71996 57883 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	29-12	0600	7850	Sun	355/40 Attention 82006 50403 53597 ... 73480 19993 79739 Attention (msg rptd) Out	USB	(AB)
E11a	29-12	1745	12924	Sun	247/35 Attention 01310 78412 25965 ... 89018 45246 76600 Attention (msg rptd) Out	USB	(AB-POL)
EGY	5-12	1203	20056.7	Thu	MFA Cairo clg OOVp: Egyptian embassy Islamabad	SITOR-A 100/170	(AB)
EGY	5-12	1208	20055	Thu	99901: MFA Cairo trying to connect to 44405: Egyptian embassy Islamabad	CODAN	(AB)

EGY	6-12	1134	17246.7	Fri	Egyptian diplo traffic i.p.	SITOR-A 100/170	(AB)
EGY	6-12	1231	20056.7	Fri	MFA Cairo clg OOVp: Egyptian embassy Islamabad	SITOR-A 100/170	(AB)
EGY	6-12	1232	20055	Fri	99901: MFA Cairo message to 44405: Egyptian embassy Islamabad	CODAN	(AB)
EGY	6-12	1405	17246.7	Fri	MFA Cairo clg OOVc: Egyptian embassy New Delhi	SITOR-A 100/170	(AB)
EGY	6-12	1405	17425	Fri	99901: MFA Cairo message to 44406: Egyptian embasst New Delhi	CODAN	(AB)
EGY	6-12	1418	20056.7	Fri	MFA Cairo clg KKXE: Egyptian embassy Luanda	SITOR-A 100/170	(AB)
EGY	6-12	1508	17246.7	Fri	Egyptian diplo traffic	SITOR-A 100/170	(AB)
EGY	6-12	1620	20056.7	Fri	MFA Cairo clg RCVB: Egyptian embassy Washington	SITOR-A 100/170	(AB)
EGY	6-12	1621	20055	Fri	99903: MFA Cairo message to 66601: Egyptian embassy Washington	CODAN	(AB)
EGY	6-12	1621	20055	Fri	66601: Egyptian embassy Washington connecting with 99903: MFA CAIRO	CODAN	(AB)
EGY	7-12	1100	20025	Sat	99904: MFA Cairo connecting to unid embassy	CODAN	(AB)
EGY	7-12	1111	20056.7	Sat	MFA Cairo clg KKQB: unid embassy	SITOR-A 100/170	(AB)
EGY	7-12	1113	20055	Sat	99904: MFA Cairo message to 33321: unid embassy	CODAN	(AB)
EGY	9-12	0850	20036.7	Mon	MFA Cairo wkg KKVU: Egyptian embassy Accra	SITOR-A 100/170	(AB)
EGY	9-12	0902	20036.7	Mon	MFA Cairo wkg KKVU: Egyptian embassy Accra	SITOR-A 100/170	(AB)
EGY	9-12	1102	20056.7	Mon	MFA Cairo clg OOVp: Egyptian embassy Islamabad	SITOR-A 100/170	(AB)
EGY	9-12	1103	20055	Mon	99901: MFA Cairo message to 44405: Egyptian embassy Islamabad	CODAN	(AB)
EGY	10-12	1430	20056.7	Tue	MFA Cairo clg OOVp: Egyptian embassy Islamabad	SITOR-A 100/170	(AB)
EGY	11-12	1114	20056.7	Wed	MFA Cairo clg OOVp: Egyptian embassy Islamabad	SITOR-A 100/170	(AB)
EGY	11-12	1116	20055	Wed	99901: MFA Cairo message to 44405: Egyptian embassy Islamabad	CODAN	(AB)
EGY	11-12	1134	14726.7	Wed	MFA Cairo wkg KKXT: Egyptian embassy Nairobi	SITOR-A 100/170	(AB)
EGY	11-12	1159	20056.7	Wed	MFA Cairo clg OOVp: Egyptian embassy Islamabad	SITOR-A 100/170	(AB)
EGY	11-12	1212	20056.7	Wed	Egyptian embassy Islamabad wkg SSTB: MFA Cairo	SITOR-A 100/170	(AB)
EGY	11-12	1216	20055	Wed	99901: MFA Cairo message to 44405: Egyptian embassy Islamabad	CODAN	(AB)
EGY	12-12	0727	20056.7	Thu	Unid embassy clg SSTB: MFA Cairo	SITOR-A 100/170	(AB)
EGY	12-12	0911	20056.7	Thu	MFA Cairo clg KKVD: Egyptian embassy Conakry	SITOR-A 100/170	(AB)
EGY	12-12	0938	20055	Thu	99901: MFA Cairo message to 18: unid embassy	CODAN	(AB)
EGY	12-12	0938	20056.7	Thu	MFA Cairo clg TVXF: unid embassy	SITOR-A 100/170	(AB)
EGY	12-12	1001	20056.7	Thu	Egyptian embassy Islamabad wkg SSTB: MFA Cairo	SITOR-A 100/170	(AB)
EGY	12-12	1002	20055	Thu	99901: MFA Cairo message to 44405: Egyptian embassy Islamabad	CODAN	(AB)
EGY	12-12	1120	20056.7	Thu	Egyptian embassy Islamabad wkg SSTB: MFA Cairo	SITOR-A 100/170	(AB)
EGY	12-12	1121	20055	Thu	99901: MFA Cairo message to 44405: Egyptian embassy Islamabad	CODAN	(AB)
EGY	12-12	1312	20056.7	Thu	Egyptian embassy Islamabad wkg SSTB: MFA Cairo	SITOR-A 100/170	(AB)
EGY	12-12	1314	20055	Thu	99901: MFA Cairo message to 44405: Egyptian embassy Islamabad	CODAN	(AB)
EGY	12-12	1435	20056.7	Thu	Egyptian embassy Islamabad wkg SSTB: MFA Cairo	SITOR-A 100/170	(AB)
EGY	12-12	1513	20056.7	Thu	MFA Cairo wkg KKVD: Egyptian embassy Conakry "ARQ 33308"	SITOR-A 100/170	(AB)
EGY	12-12	1519	20055	Thu	99901: MFA Cairo message to 18: unid embassy	CODAN	(AB)
EGY	24-12	0801	16026.7	Tue	Egyptian diplo i.p.	SITOR-A 100/170	(AB)
EGY	24-12	1045	16026.7	Tue	MFA Cairo clg XBVP: Egyptian embassy Rome	SITOR-A 100/170	(AB)
EGY	24-12	1047	16025	Tue	99903: MFA Cairo messge to 11105: Egyptian embassy Rome	CODAN	(AB)
EGY	25-12	1316	20055	Wed	66601: Egyptian embassy Washington message to 99903: MFA Cairo	CODAN	(AB)
EGY	25-12	1316	20056.6	Wed	Egyptian embassy Washington clg SSE: MFA Cairo	SITOR-A 100/170	(AB)

EGY	25-12	1511	20056.6	Wed	MFA Cairo clg OOVp: Egyptian embassy Islamabad	SITOR-A 100/170	(AB)
EGY	26-12	1134	20056.7	Thu	MFA Cairo clg OOVc: Egyptian embassy New Delhi	SITOR-A 100/170	(AB)
EGY	26-12	1326	20056.7	Thu	MFA Cairo clg TVXF: unid Egyptian embassy	SITOR-A 100/170	(AB)
EGY	26-12	1328	20055	Thu	99901: MFA Cairo message to 18: unid Egyptian embasst	CODAN	(AB)
F01	2-12	0230	13370	Mon	Messages 31 and 32	FSK 200/500	(PY)
F01	2-12	0241	11538	Mon	TX issues	FSK 200/500	(PY)
F01	2-12	0250	10614	Mon	No transmission. TX issues	FSK 200/500	(PY)
F01	2-12	1015	12164	Mon	Message 04	FSK 200/500	(AB)
F01	2-12	1025	10336	Mon	Message 04	FSK 200/500	(AB)
F01	2-12	1035	8016	Mon	Message 04	FSK 200/500	(AB)
F01	3-12	0230	13370	Tue	Messages 31 and 32	FSK 200/500	(PY)
F01	3-12	0241	11538	Tue	TX issues	FSK 200/500	(PY)
F01	3-12	0250	10614	Tue	Messages 31 and 32	FSK 200/500	(PY)
F01	3-12	1015	12164	Tue	Messages 05 and 06	FSK 200/500	(AB)
F01	3-12	1025	10336	Tue	Messages 05 and 06	FSK 200/500	(AB)
F01	3-12	1035	8016	Tue	Messages 05 and 06	FSK 200/500	(AB)
F01	4-12	0232	13370	Wed	Messages 33 and 34	FSK 200/500	(PY)
F01	4-12	0242	11538	Wed	Messages 33 and 34	FSK 200/500	(PY)
F01	4-12	0252	10614	Wed	Messages 33 and 34	FSK 200/500	(PY)
F01	4-12	1015	12164	Wed	Message 07	FSK 200/500	(AB)
F01	4-12	1025	10336	Wed	Message 07	FSK 200/500	(AB)
F01	4-12	1035	8016	Wed	Message 07	FSK 200/500	(AB)
F01	5-12	0230	13370	Thu	Messages 33 and 34	FSK 200/500	(PY)
F01	5-12	0240	11538	Thu	Messages 33 and 34	FSK 200/500	(PY)
F01	5-12	0250	10614	Thu	Messages 33 and 34	FSK 200/500	(PY)
F01	5-12	1015	12164	Thu	Messages 08 and 09	FSK 200/500	(AB)
F01	5-12	1025	10336	Thu	Messages 08 and 09	FSK 200/500	(AB)
F01	5-12	1035	8016	Thu	Messages 08 and 09	FSK 200/500	(AB)
F01	6-12	0230	13370	Fri	00000 +++++ +++++	FSK 200/500	(PY)
F01	6-12	0241	11538	Fri	00000 +++++ +++++	FSK 200/500	(PY)
F01	6-12	0250	10614	Fri	No transmission. TX issues	FSK 200/500	(PY)
F01	6-12	1015	12164	Fri	00000 +++++	FSK 200/500	(AB/HFD-RUS)
F01	6-12	1025	10336	Fri	00000 +++++	FSK 200/500	(AB/HFD-RUS)
F01	6-12	1035	8016	Fri	00000 +++++	FSK 200/500	(AB/HFD-POL)
F01	9-12	0230	13370	Mon	Message 35	FSK 200/500	(PY)
F01	9-12	0240	11538	Mon	Message 35	FSK 200/500	(PY)
F01	9-12	0250	10614	Mon	Message 35	FSK 200/500	(PY)
F01	9-12	1015	12164	Mon	Message 10	FSK 200/500	(AB)
F01	9-12	1025	10336	Mon	Message 10	FSK 200/500	(AB)
F01	9-12	1035	8016	Mon	Message 10	FSK 200/500	(AB)
F01	10-12	0230	13370	Tue	Message 35	FSK 200/500	(PY)
F01	10-12	0240	11538	Tue	Message 35	FSK 200/500	(PY)

F01	10-12	0250	10614	Tue	No transmission. TX issues	FSK 200/500	(PY)
F01	10-12	1015	12164	Tue	Messages 11 and 12. Wrong shift	FSK 200/1000	(AB)
F01	10-12	1025	10336	Tue	Messages 11 and 12	FSK 200/500	(AB)
F01	10-12	1035	8016	Tue	Messages 11 and 12	FSK 200/500	(AB)
F01	11-12	0230	13370	Wed	Message 36	FSK 200/500	(PY)
F01	11-12	0240	11538	Wed	Message 36	FSK 200/500	(PY)
F01	11-12	0252	10614	Wed	Message 36	FSK 200/500	(PY)
F01	11-12	1015	12164	Wed	Message 13	FSK 200/500	(AB)
F01	11-12	1025	10336	Wed	Message 13	FSK 200/500	(AB)
F01	11-12	1035	8016	Wed	Message 13	FSK 200/500	(AB)
F01	12-12	0230	13370	Thu	Message 36	FSK 200/500	(PY)
F01	12-12	0240	11538	Thu	Message 36	FSK 200/500	(PY)
F01	12-12	0250	10614	Thu	No transmission. TX issues	FSK 200/500	(PY)
F01	12-12	1015	12164	Thu	Messages 14 and 15	FSK 200/500	(AB)
F01	12-12	1025	10336	Thu	Messages 14 and 15	FSK 200/500	(AB)
F01	12-12	1035	8016	Thu	Messages 14 and 15	FSK 200/500	(AB)
F01	13-12	0230	13370	Fri	00000 +++++ +++++	FSK 200/500	(PY)
F01	13-12	1015	12164	Fri	00000 +++++ +++++	FSK 200/500	(AB)
F01	13-12	1025	10336	Fri	00000 +++++ +++++	FSK 200/500	(AB)
F01	13-12	1035	8016	Fri	00000 +++++ +++++	FSK 200/500	(AB)
F01	16-12	0230	13370	Mon	Messages 31 and 38	FSK 200/500	(PY)
F01	16-12	0240	11538	Mon	Messages 31 and 38	FSK 200/500	(PY)
F01	16-12	0251	10614	Mon	Messages 31 and 38	FSK 200/500	(PY)
F01	16-12	1015	12164	Mon	Message 16	FSK 200/500	(AB)
F01	16-12	1025	10336	Mon	Message 16	FSK 200/500	(AB)
F01	16-12	1035	8016	Mon	Message 16	FSK 200/500	(AB)
F01	17-12	0230	13370	Tue	Messages 31 and 38	FSK 200/500	(PY)
F01	17-12	0240	11538	Tue	Messages 31 and 38	FSK 200/500	(PY)
F01	17-12	0251	10614	Tue	Messages 31 and 38	FSK 200/500	(PY)
F01	17-12	1015	12164	Tue	Messages 17 and 18	FSK 200/500	(AB)
F01	17-12	1025	10336	Tue	Messages 17 and 18	FSK 200/500	(AB)
F01	17-12	1035	8016	Tue	Messages 17 and 18	FSK 200/500	(AB)
F01	18-12	0230	13370	Wed	Messages 39 and 40. Wrong shift	FSK 200/1000	(PY)
F01	18-12	0240	11538	Wed	Messages 39 and 40	FSK 200/500	(PY)
F01	18-12	0250	10614	Wed	No transmission. TX issues	FSK 200/500	(PY)
F01	18-12	1015	12164	Wed	Message 19	FSK 200/500	(AB)
F01	18-12	1025	10336	Wed	Message 19	FSK 200/500	(AB)
F01	18-12	1035	8016	Wed	Message 19	FSK 200/500	(AB)
F01	19-12	0230	13370	Thu	Messages 39 and 40	FSK 200/500	(PY)
F01	19-12	0240	11538	Thu	Messages 39 and 40	FSK 200/500	(PY)
F01	19-12	0250	10614	Thu	No transmission	FSK 200/500	(PY)
F01	19-12	1015	12164	Thu	Messages 20 and 21	FSK 200/500	(AB)

F01	19-12	1025	10336	Thu	Messages 20 and 21	FSK 200/500	(AB)
F01	19-12	1035	8016	Thu	Messages 20 and 21	FSK 200/500	(AB)
F01	19-12	1620	5089	Thu	Message 51	FSK 200/500	(AB/PY)
F01	19-12	1630	7337	Thu	Message 51	FSK 200/500	(PY)
F01	19-12	1634	9481	Thu	Message 51	FSK 200/500	(PY)
F01	20-12	0230	13370	Fri	00000 +++++ +++++ off early, TX issues	FSK 200/500	(PY)
F01	20-12	1015	12164	Fri	00000 +++++ +++++	FSK 200/500	(AB)
F01	20-12	1025	10336	Fri	00000 +++++ +++++	FSK 200/500	(AB)
F01	20-12	1035	8016	Fri	00000 +++++ +++++	FSK 200/500	(AB)
F01	23-12	0230	13370	Mon	Message 41	FSK 200/500	(PY)
F01	23-12	0240	11538	Mon	Message 41	FSK 200/500	(PY)
F01	23-12	0252	10614	Mon	Message 41	FSK 200/500	(PY)
F01	23-12	1015	12164	Mon	Message 22	FSK 200/500	(AB)
F01	23-12	1025	10336	Mon	Message 22	FSK 200/500	(AB)
F01	23-12	1035	8016	Mon	Message 22	FSK 200/500	(AB)
F01	24-12	0231	13370	Tue	Message 41	FSK 200/500	(PY)
F01	24-12	0240	11538	Tue	Message 41. Interruptions due to TX issues	FSK 200/500	(PY)
F01	24-12	1015	12164	Tue	Messages 23 and 24	FSK 200/500	(AB)
F01	24-12	1025	10336	Tue	Messages 23 and 24	FSK 200/500	(AB)
F01	24-12	1035	8016	Tue	Messages 23 and 24	FSK 200/500	(AB)
F01	25-12	0230	13370	Wed	Message 42	FSK 200/500	(PY)
F01	25-12	0240	11538	Wed	Message 42	FSK 200/500	(PY)
F01	25-12	0250	10614	Wed	Message 42	FSK 200/500	(PY)
F01	25-12	1015	12164	Wed	Message 25	FSK 200/500	(AB)
F01	25-12	1025	10336	Wed	Message 25	FSK 200/500	(AB)
F01	25-12	1035	8016	Wed	Message 25	FSK 200/500	(AB)
F01	26-12	0231	13370	Thu	Message 42	FSK 200/500	(PY)
F01	26-12	0241	11538	Thu	Message 42	FSK 200/500	(PY)
F01	26-12	0251	10614	Thu	Message 42	FSK 200/500	(PY)
F01	26-12	1015	12164	Thu	Messages 26 and 27	FSK 200/500	(AB)
F01	26-12	1025	10336	Thu	Messages 26 and 27	FSK 200/500	(AB)
F01	26-12	1035	8016	Thu	Messages 26 and 27	FSK 200/500	(AB)
F01	27-12	1015	12164	Fri	00000 +++++ +++++	FSK 200/500	(AB)
F01	27-12	1025	10336	Fri	00000 +++++ +++++	FSK 200/500	(AB)
F01	27-12	1035	8016	Fri	00000 +++++ +++++	FSK 200/500	(AB)
F01	30-12	1015	12164	Mon	Message 28	FSK 200/500	(AB)
F01	30-12	1025	10336	Mon	Message 28	FSK 200/500	(AB)
F01	30-12	1035	8016	Mon	Message 28	FSK 200/500	(AB)
F01	31-12	1015	12164	Tue	Messages 29 and 30	FSK 200/500	(AB)
F01	31-12	1025	10336	Tue	Messages 29 and 30	FSK 200/500	(AB)
F01	31-12	1035	8016	Tue	Messages 29 and 30	FSK 200/500	(AB)
F02	2-12	1026	15610	Mon	Russian domestic net	FSK-4/150Bd/4000Hz	(AB)



F02	2-12	1035	15610	Mon	Russian domestic net	FSK-4/150Bd/4000Hz	(AB)
F02	9-12	1021	17510	Mon	Russian domestic net	FSK-4/150Bd/4000Hz	(AB)
F02	9-12	1035	17510	Mon	Russian domestic net	FSK-4/150Bd/4000Hz	(AB)
F02	10-12	0746	14983	Tue	Russian domestic net. Test	FSK-4/150Bd/4000Hz	(AB)
F02	10-12	0800	14983	Tue	Russian domestic net	FSK-4/150Bd/4000Hz	(AB)
F02	18-12	0700	16081	Wed	Russian domestic net	FSK-4/150Bd/4000Hz	(AB)
F03j	2-12	0810	26472	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	2-12	0815	26472	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	2-12	0950	4828	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	2-12	0950	4828	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	2-12	0955	4828	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	2-12	0955	4828	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	2-12	1010	12089	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	2-12	1015	12089	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	4-12	0615	18978	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	4-12	0620	18978	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	4-12	0915	5946	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	4-12	0920	5946	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	4-12	0950	4828	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	4-12	0955	4828	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	4-12	1010	12089	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	4-12	1015	12089	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	4-12	1030	14938	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	4-12	1035	14938	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	5-12	0615	12857	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB/PY)
F03j	5-12	0620	12857	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	5-12	0915	5946	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	5-12	0920	5946	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	6-12	0810	26472	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	6-12	0815	26472	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	9-12	0810	26472	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	9-12	0815	26472	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	9-12	1010	12089	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	9-12	1015	12089	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	9-12	1030	14398	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	9-12	1035	14398	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	10-12	0615	12857	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB/PY)
F03j	10-12	0620	12857	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	11-12	0915	5946	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	11-12	0920	5946	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	11-12	0950	4828	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	11-12	0955	4828	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)

F03j	11-12	1010	12089	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	11-12	1015	12089	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	11-12	1030	14938	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	11-12	1035	14938	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	12-12	0615	12857	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB/PY)
F03j	12-12	0620	12857	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	12-12	0915	5946	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	12-12	0920	5946	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	13-12	0810	26472	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	13-12	0815	26472	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	16-12	0950	4828	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	16-12	0955	4828	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	16-12	1010	12089	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	16-12	1015	12089	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	16-12	1030	14398	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	16-12	1035	14398	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	17-12	0615	12857	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB/PY)
F03j	17-12	0620	12857	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	18-12	0615	18978	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	18-12	0620	18978	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	18-12	0915	5946	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	18-12	0920	5946	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	18-12	0950	4828	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	18-12	0955	4828	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	18-12	1010	12089	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	18-12	1015	12089	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	18-12	1030	14938	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	18-12	1035	14938	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	19-12	0615	12857	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB/PY)
F03j	19-12	0620	12857	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	20-12	0810	26472	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	20-12	0815	26472	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	23-12	0810	26472	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	23-12	0815	26472	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	23-12	0950	4828	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	23-12	0955	4828	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	23-12	1010	12089	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	23-12	1015	12089	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	23-12	1030	14398	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	23-12	1035	14398	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	24-12	0615	12857	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB/PY)
F03j	24-12	0620	12857	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)

<b>F03j</b>	25-12	0615	18978	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	25-12	0620	18978	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	25-12	0915	5946	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	25-12	0920	5946	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	25-12	0950	4828	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	25-12	0955	4828	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	25-12	1010	12089	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	25-12	1015	12089	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	25-12	1030	14938	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	25-12	1035	14938	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	26-12	0615	12857	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB/PY)
<b>F03j</b>	26-12	0620	12857	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	26-12	0915	5946	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	26-12	0920	5946	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	30-12	0615	18978	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	30-12	0620	18978	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	30-12	0810	26472	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
<b>F03j</b>	30-12	0815	26472	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
<b>F03j</b>	30-12	0950	4828	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
<b>F03j</b>	30-12	0955	4828	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
<b>F03j</b>	30-12	1010	12089	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	30-12	1015	12089	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	30-12	1030	14398	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	30-12	1035	14398	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03j</b>	31-12	0615	12857	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB/PY)
<b>F03j</b>	31-12	0620	12857	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
<b>F03I</b>	2-12	0630	13424	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
<b>F03I</b>	2-12	0635	13424	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
<b>F03I</b>	2-12	0735	8800	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
<b>F03I</b>	2-12	0740	8800	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
<b>F03I</b>	2-12	0930	6304	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
<b>F03I</b>	2-12	0935	6304	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
<b>F03I</b>	3-12	0835	17120	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
<b>F03I</b>	3-12	0840	17120	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
<b>F03I</b>	3-12	0945	6480	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
<b>F03I</b>	3-12	0950	6480	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
<b>F03I</b>	4-12	0630	13424	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
<b>F03I</b>	4-12	0635	13424	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
<b>F03I</b>	5-12	0735	8800	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
<b>F03I</b>	5-12	0740	8800	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
<b>F03I</b>	5-12	0835	17120	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
<b>F03I</b>	5-12	0840	17120	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)

F03I	6-12	0800	13363	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	6-12	0805	13363	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	6-12	0850	17120	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	6-12	0855	17120	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	6-12	0930	6304	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	6-12	0935	6304	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	9-12	0630	13424	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	9-12	0635	13424	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	9-12	0735	8800	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	9-12	0740	8800	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	9-12	0930	6304	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	9-12	0935	6304	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	10-12	0835	17120	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	10-12	0840	17120	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	10-12	0945	6480	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	10-12	0950	6480	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	11-12	0630	13424	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	11-12	0635	13424	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	12-12	0735	8800	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	12-12	0740	8800	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	12-12	0800	13363	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	12-12	0805	13363	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	12-12	0835	17120	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	12-12	0840	17120	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	13-12	0800	13363	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	13-12	0805	13363	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	13-12	0850	17120	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	13-12	0855	17120	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	13-12	0930	6304	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	13-12	0935	6304	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	16-12	0930	6304	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	16-12	0935	6304	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	17-12	0810	17120	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	17-12	0815	17120	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	17-12	0835	17120	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	17-12	0840	17120	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	18-12	0630	13424	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	18-12	0635	13424	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	19-12	0735	8800	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	19-12	0740	8800	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	19-12	0800	13363	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	19-12	0805	13363	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)

F03I	19-12	0835	17120	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	19-12	0840	17120	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	20-12	0800	13363	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	20-12	0805	13363	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	20-12	0850	17120	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	20-12	0855	17120	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	20-12	0930	6304	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	20-12	0935	6304	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	20-12	0945	6480	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	20-12	0950	6480	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	23-12	0630	13424	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	23-12	0635	13424	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	23-12	0735	8800	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	23-12	0740	8800	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	23-12	0930	6304	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	23-12	0935	6304	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	24-12	0810	17120	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	24-12	0815	17120	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	24-12	0835	17120	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	24-12	0840	17120	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	24-12	0945	6480	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	24-12	0950	6480	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	25-12	0630	13424	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	25-12	0635	13424	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	26-12	0735	8800	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	26-12	0740	8800	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	26-12	0800	13363	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	26-12	0805	13363	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	26-12	0835	17120	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	26-12	0840	17120	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	30-12	0630	13424	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	30-12	0635	13424	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	30-12	0735	8800	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	30-12	0740	8800	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	30-12	0930	6304	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	30-12	0935	6304	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	31-12	0810	17120	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	31-12	0815	17120	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	31-12	0835	17120	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	31-12	0840	17120	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	31-12	0945	6480	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	31-12	0950	6480	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)

F06	1-12	1530	12209	Sun	11166 10053 74523 01001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	1-12	1540	9363	Sun	11166 10053 74523 01001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	1-12	1550	8153	Sun	11166 10053 74523 01001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	2-12	0100	17532	Mon	11100 09501 00000 02004 0202911100 09501 00000 02004 02029	FSK 200/1000	(PY)
F06	2-12	0500	7379	Mon	11166 70059 96521 02001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	2-12	0510	6774	Mon	11166 70059 96521 02001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	2-12	0520	5463	Mon	11166 70059 96521 02001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	2-12	0800	12184	Mon	11100 00000 26798 29065 01159	FSK 200/1000	(AB)
F06	2-12	0810	10169	Mon	11100 00000 26798 29065 01159	FSK 200/1000	(AB)
F06	2-12	0820	7739	Mon	11100 00000 26798 29065 01159	FSK 200/1000	(AB)
F06	3-12	0030	9489	Tue	11166 09197 60070 03001 00049 00000 00000 00000 00000 link ID in wrong header field)	FSK 200/1000	(PY)
F06	3-12	0040	7615	Tue	11166 09197 60070 03001 00049 00000 00000 00000 00000 link ID in wrong header field)	FSK 200/1000	(Rycat)
F06	3-12	0050	6983	Tue	11166 09197 60070 03001 00049 00000 00000 00000 00000 link ID in wrong header field)	FSK 200/1000	(Rycat)
F06	3-12	0100	17532	Tue	11100 09501 00000 02004 02029	FSK 200/1000	(PY)
F06	3-12	0700	11046	Tue	11166 70202 91462 02093 01839 and 11166 70202 35914 02094 02079	FSK 200/1000	(AB)
F06	3-12	0710	9065	Tue	11166 70202 91462 02093 01839 and 11166 70202 35914 02094 02079	FSK 200/1000	(AB)
F06	3-12	0720	7479	Tue	11166 70202 91462 02093 01839 and 11166 70202 35914 02094 02079	FSK 200/1000	(AB)
F06	3-12	0800	12184	Tue	11100 00000 26798 29065 01159	FSK 200/1000	(AB)
F06	3-12	0810	10169	Tue	11100 00000 26798 29065 01159	FSK 200/1000	(AB)
F06	3-12	0820	7739	Tue	11100 00000 26798 29065 01159	FSK 200/1000	(AB)
F06	3-12	1200	9178	Tue	11166 70202 91462 02093 01839 and 11166 70202 35914 02094 02079	FSK 200/1000	(AB)
F06	3-12	1210	7624	Tue	11166 70202 91462 02093 01839 and 11166 70202 35914 02094 02079	FSK 200/1000	(AB)
F06	3-12	1220	5789	Tue	11166 70202 91462 02093 01839 and 11166 70202 35914 02094 02079	FSK 200/1000	(AB)
F06	3-12	1650	12125	Tue	11166 10053 32147 03001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	3-12	1700	10575	Tue	11166 10053 32147 03001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	3-12	1710	8131	Tue	11166 10053 32147 03001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	5-12	0700	11046	Thu	11166 70202 78459 04096 01739 and 11166 70202 56139 04097 01979	FSK 200/1000	(AB)
F06	5-12	0710	9065	Thu	11166 70202 78459 04096 01739 and 11166 70202 56139 04097 01979	FSK 200/1000	(AB)
F06	5-12	0720	7479	Thu	11166 70202 78459 04096 01739 and 11166 70202 56139 04097 01979	FSK 200/1000	(AB)
F06	5-12	1200	9178	Thu	11166 70202 78459 04096 01739 and 11166 70202 56139 04097 01979	FSK 200/1000	(AB)
F06	5-12	1210	7624	Thu	11166 70202 78459 04096 01739 and 11166 70202 56139 04097 01979	FSK 200/1000	(AB)
F06	5-12	1220	5789	Thu	11166 70202 78459 04096 01739 and 11166 70202 56139 04097 01979	FSK 200/1000	(AB)
F06	5-12	1330	15946	Thu	11166 80214 17653 04071 00049 00000 00000 00000 00000 (wrong date in the header)	FSK 200/1000	(AB)
F06	5-12	1340	12211	Thu	11166 80214 17653 04071 00049 00000 00000 00000 00000 (wrong date in the header)	FSK 200/1000	(AB)
F06	5-12	1350	10286	Thu	11166 80214 17653 04071 00049 00000 00000 00000 00000 (wrong date in the header)	FSK 200/1000	(AB)
F06	6-12	0100	17532	Fri	Undecodable null message	FSK 200/1000	(PY)

F06	6-12	0110	16351	Fri	Undecodable null message	FSK 200/1000	(PY)
F06	6-12	0120	14428	Fri	Not heard	FSK 200/1000	(PY)
F06	6-12	0700	11046	Fri	11166 70202 78164 05052 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	6-12	0710	9065	Fri	11166 70202 78164 05052 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	6-12	0720	7479	Fri	11166 70202 78164 05052 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	8-12	1530	12209	Sun	11166 10053 65749 06073 01709	FSK 200/1000	(AB/PY)
F06	8-12	1540	9363	Sun	11166 10053 65749 06073 01709	FSK 200/1000	(AB/PY)
F06	8-12	1550	8153	Sun	11166 10053 65749 06073 01709	FSK 200/1000	(AB/PY)
F06	9-12	0100	17532	Mon	11100 09501 00000 09005 03229	FSK 200/1000	(PY)
F06	9-12	1530	12209	Mon	11166 10053 65749 06073 01709	FSK 200/1000	(AB/PY)
F06	9-12	1540	9363	Mon	11166 10053 65749 06073 01709	FSK 200/1000	(AB/PY)
F06	9-12	1550	8153	Mon	11166 10053 65749 06073 01709	FSK 200/1000	(AB/PY)
F06	10-12	0030	9489	Tue	11166 60070 32147 10001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	10-12	0040	7615	Tue	11166 60070 32147 10001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	10-12	0050	6983	Tue	11166 60070 32147 10001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Rycat)
F06	10-12	0100	17532	Tue	11100 09501 00000 09005 03229	FSK 200/1000	(PY)
F06	10-12	0700	11046	Tue	11166 70202 74859 09099 01319 and 11166 70202 24715 09001 02139	FSK 200/1000	(AB)
F06	10-12	0710	9065	Tue	11166 70202 74859 09099 01319 and 11166 70202 24715 09001 02139	FSK 200/1000	(AB)
F06	10-12	0720	7479	Tue	11166 70202 74859 09099 01319 and 11166 70202 24715 09001 02139	FSK 200/1000	(AB)
F06	10-12	0800	12184	Tue	11100 00000 78561 06066 01559	FSK 200/1000	(AB)
F06	10-12	0810	10169	Tue	11100 00000 78561 06066 01559	FSK 200/1000	(AB)
F06	10-12	0820	7739	Tue	11100 00000 78561 06066 01559	FSK 200/1000	(AB)
F06	10-12	1200	9178	Tue	11166 70202 74859 09099 01319 and 11166 70202 24715 09001 02139	FSK 200/1000	(AB)
F06	10-12	1210	7624	Tue	11166 70202 74859 09099 01319 and 11166 70202 24715 09001 02139	FSK 200/1000	(AB)
F06	10-12	1220	5789	Tue	11166 70202 74859 09099 01319 and 11166 70202 24715 09001 02139	FSK 200/1000	(AB)
F06	10-12	1650	12125	Tue	11166 10053 97568 06077 01709	FSK 200/1000	(AB/PY)
F06	10-12	1700	10575	Tue	11166 10053 97568 06077 01709	FSK 200/1000	(AB/PY)
F06	10-12	1710	8131	Tue	11166 10053 97568 06077 01709	FSK 200/1000	(AB/PY)
F06	11-12	1015	25523	Wed	11166 40023 12457 11001 00049 00000 00000 00000 00000	FSK 200/1000	(PY)
F06	11-12	1030	20989	Wed	11166 40023 12457 11001 00049 00000 00000 00000 00000	FSK 200/1000	(PY)
F06	11-12	1045	18751	Wed	11166 40023 12457 11001 00049 00000 00000 00000 00000	FSK 200/1000	(PY)
F06	11-12	1650	12125	Wed	11166 10053 97568 06077 01709	FSK 200/1000	(AB/PY)
F06	11-12	1700	10575	Wed	11166 10053 97568 06077 01709	FSK 200/1000	(AB/PY)
F06	11-12	1710	8131	Wed	11166 10053 97568 06077 01709	FSK 200/1000	(AB/PY)
F06	12-12	0700	11046	Thu	11166 70202 85961 11003 01239 and 11166 70202 23457 11004 01999	FSK 200/1000	(AB)
F06	12-12	0710	9065	Thu	11166 70202 85961 11003 01239 and 11166 70202 23457 11004 01999	FSK 200/1000	(AB)
F06	12-12	0720	7479	Thu	11166 70202 85961 11003 01239 and 11166 70202 23457 11004 01999	FSK 200/1000	(AB)
F06	12-12	1200	9178	Thu	11166 70202 85961 11003 01239 and 11166 70202 23457 11004 01999	FSK 200/1000	(AB)
F06	12-12	1210	7624	Thu	11166 70202 85961 11003 01239 and 11166 70202 23457 11004 01999	FSK 200/1000	(AB)
F06	12-12	1220	5789	Thu	11166 70202 85961 11003 01239 and 11166 70202 23457 11004 01999	FSK 200/1000	(AB)
F06	12-12	1330	15946	Thu	11166 80214 12569 11088 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	12-12	1340	12211	Thu	11166 80214 12569 11088 00049 00000 00000 00000 00000	FSK 200/1000	(AB)

F06	12-12	1350	10286	Thu	11166 80214 12569 11088 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	13-12	0100	17532	Fri	Slow FSK, 20Hz shift	FSK ?/20	(PY)
F06	13-12	0110	16351	Fri	11100 09501 00000 13082 00049 00000 00000 00000 00000	FSK 200/1000	(PY)
F06	13-12	0120	14428	Fri	11100 09501 00000 13082 00049 00000 00000 00000 00000	FSK 200/1000	(PY)
F06	13-12	0700	11046	Fri	11166 70202 95431 13082 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	13-12	0710	9065	Fri	11166 70202 95431 13082 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	13-12	0720	7479	Fri	11166 70202 95431 13082 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	15-12	1530	12209	Sun	11166 10053 18930 15001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	15-12	1540	9363	Sun	11166 10053 18930 15001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	15-12	1550	8153	Sun	11166 10053 18930 15001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	16-12	0100	17532	Mon	11100 09501 00000 16006 01699 and 11100 09501 00000 13007 01869	FSK 200/1000	(PY)
F06	16-12	0500	7379	Mon	11166 70059 18930 16001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	16-12	0510	6774	Mon	11166 70059 18930 16001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	16-12	0520	5463	Mon	11166 70059 18930 16001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	16-12	0800	12184	Mon	11100 00000 59261 13067 02299	FSK 200/1000	(AB)
F06	16-12	0810	10169	Mon	11100 00000 59261 13067 02299	FSK 200/1000	(AB)
F06	16-12	0820	7739	Mon	11100 00000 59261 13067 02299	FSK 200/1000	(AB)
F06	17-12	0030	9489	Tue	11166 60070 74523 17078 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	17-12	0040	7615	Tue	11166 60070 74523 17078 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	17-12	0050	6983	Tue	11166 60070 74523 17078 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	17-12	0100	17532	Tue	11100 09501 00000 16006 01699 and 11100 09501 00000 13007 01869	FSK 200/1000	(PY)
F06	17-12	0700	11046	Tue	11166 70202 10475 16006 01579 and 11166 70202 35941 16007 02059	FSK 200/1000	(AB)
F06	17-12	0710	9065	Tue	11166 70202 10475 16006 01579 and 11166 70202 35941 16007 02059	FSK 200/1000	(AB)
F06	17-12	0720	7479	Tue	11166 70202 10475 16006 01579 and 11166 70202 35941 16007 02059	FSK 200/1000	(AB)
F06	17-12	0800	12184	Tue	11100 00000 59261 13067 02299	FSK 200/1000	(AB)
F06	17-12	0810	10169	Tue	11100 00000 59261 13067 02299	FSK 200/1000	(AB)
F06	17-12	0820	7739	Tue	11100 00000 59261 13067 02299	FSK 200/1000	(AB)
F06	17-12	0900	5913	Tue	11100 00000 51324 17065 02529	FSK 200/1000	(PY)
F06	17-12	0910	7992	Tue	11100 00000 51324 17065 02529	FSK 200/1000	(PY)
F06	17-12	0920	10687	Tue	11100 00000 51324 17065 02529	FSK 200/1000	(PY)
F06	17-12	1200	9178	Tue	11166 70202 10475 16006 01579 and 11166 70202 35941 16007 02059	FSK 200/1000	(AB)
F06	17-12	1210	7624	Tue	11166 70202 10475 16006 01579 and 11166 70202 35941 16007 02059	FSK 200/1000	(AB)
F06	17-12	1220	5789	Tue	11166 70202 10475 16006 01579 and 11166 70202 35941 16007 02059	FSK 200/1000	(AB)
F06	17-12	1650	12125	Tue	11166 10053 12547 17001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	17-12	1700	10575	Tue	11166 10053 12547 17001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	17-12	1710	8131	Tue	11166 10053 12547 17001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	19-12	0700	11046	Thu	11166 70202 51674 18009 01439 and 11166 70202 15473 18010 02179	FSK 200/1000	(AB)
F06	19-12	0710	9065	Thu	11166 70202 51674 18009 01439 and 11166 70202 15473 18010 02179	FSK 200/1000	(AB)
F06	19-12	0720	7479	Thu	11166 70202 51674 18009 01439 and 11166 70202 15473 18010 02179	FSK 200/1000	(AB)
F06	19-12	1200	9178	Thu	11166 70202 51674 18009 01439 and 11166 70202 15473 18010 02179	FSK 200/1000	(AB)
F06	19-12	1210	7624	Thu	11166 70202 51674 18009 01439 and 11166 70202 15473 18010 02179	FSK 200/1000	(AB)
F06	19-12	1220	5789	Thu	11166 70202 51674 18009 01439 and 11166 70202 15473 18010 02179	FSK 200/1000	(AB)



F06	19-12	1330	15946	Thu	11166 80214 39751 19064 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	19-12	1340	12211	Thu	11166 80214 39751 19064 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	19-12	1350	10286	Thu	11166 80214 39751 19064 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	20-12	0100	17532	Fri	11100 09501 00000 20834 00049 00000 00000 00000 00000	FSK 200/1000	(PY)
F06	20-12	0700	11046	Fri	11166 70202 79465 20077 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	20-12	0710	9065	Fri	11166 70202 79465 20077 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	20-12	0720	7479	Fri	11166 70202 79465 20077 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	21-12	1235	5089	Sat	11100 00000 42135 21067 02529	FSK 200/1000	(PY)
F06	21-12	1245	7337	Sat	11100 00000 42135 21067 02529	FSK 200/1000	(PY)
F06	21-12	1255	9481	Sat	11100 00000 42135 21067 02529	FSK 200/1000	(PY)
F06	21-12	1435	5913	Sat	11100 00000 87643 21068 02529 modulation started after 34s	FSK 200/1000	(PY)
F06	21-12	1445	7992	Sat	11100 00000 87643 21068 02529	FSK 200/1000	(PY)
F06	21-12	1455	10687	Sat	11100 00000 87643 21068 02529 modulation started after 1m07s and ended at 2m11s, leaving idle carrier	FSK 200/1000	(PY)
F06	21-12	1500	10687	Sat	1501h24s: 2 blocks, undecodable, during 2m26s	FSK 200/1000	(PY)
F06	21-12	1500	10687	Sat	1500h48s: modulation burst for 10s, undecodable	FSK 200/1000	(PY)
F06	21-12	1700	????	Sat	11100 00000 59148 20001 01939	FSK 200/1000	(PY)
F06	21-12	1710	6787	Sat	11100 00000 59148 20001 01939	FSK 200/1000	(PY)
F06	21-12	1720	5452	Sat	11100 00000 59148 20001 01939	FSK 200/1000	(PY)
F06	22-12	0830	11122	Sun	11100 00000 59148 20001 01939	FSK 200/1000	(PY)
F06	22-12	0840	9425	Sun	11100 00000 59148 20001 01939	FSK 200/1000	(PY)
F06	22-12	0850	6787	Sun	11100 00000 59148 20001 01939	FSK 200/1000	(PY)
F06	22-12	1530	12209	Sun	11166 10053 32147 22001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	22-12	1540	9363	Sun	11166 10053 32147 22001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	22-12	1550	8153	Sun	11166 10053 32147 22001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	23-12	0100	17532	Mon	11100 09501 00000 23008 03509	FSK 200/1000	(PY)
F06	23-12	0800	12184	Mon	File 44468 (binary contents)	FSK 200/1000	(AB)
F06	23-12	0815	10169	Mon	File 44468 (binary contents)	FSK 200/1000	(AB)
F06	23-12	0830	7739	Mon	File 44468 (binary contents)	FSK 200/1000	(AB)
F06	23-12	1320	5089	Mon	11100 79993 72354 23035 02519	FSK 200/1000	(PY)
F06	23-12	1330	7337	Mon	11100 79993 72354 23035 02519	FSK 200/1000	(PY)
F06	23-12	1340	9481	Mon	11100 79993 72354 23035 02519	FSK 200/1000	(PY)
F06	24-12	0030	9489	Tue	11166 60070 12547 24001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	24-12	0040	7615	Tue	11166 60070 12547 24001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	24-12	0050	6983	Tue	11166 60070 12547 24001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	24-12	0100	17532	Tue	11100 09501 00000 23008 03509	FSK 200/1000	(PY)
F06	24-12	0700	11046	Tue	11166 70202 96385 23012 01539 and 11166 70202 15268 23013 01759	FSK 200/1000	(AB)
F06	24-12	0700	11046	Tue	11166 70202 96521 31020 01219 and 11166 70202 65872 31021 02059	FSK 200/1000	(AB)
F06	24-12	0710	9065	Tue	11166 70202 96385 23012 01539 and 11166 70202 15268 23013 01759	FSK 200/1000	(AB)
F06	24-12	0710	9065	Tue	11166 70202 96521 31020 01219 and 11166 70202 65872 31021 02059	FSK 200/1000	(AB)
F06	24-12	0720	7479	Tue	11166 70202 96385 23012 01539 and 11166 70202 15268 23013 01759	FSK 200/1000	(AB)
F06	24-12	0720	7479	Tue	11166 70202 96521 31020 01219 and 11166 70202 65872 31021 02059	FSK 200/1000	(AB)

F06	24-12	0800	12184	Tue	File 44468 (binary contents)	FSK 200/1000	(AB)
F06	24-12	0815	10169	Tue	File 44468 (binary contents)	FSK 200/1000	(AB)
F06	24-12	0830	7739	Tue	File 44468 (binary contents)	FSK 200/1000	(AB)
F06	24-12	1200	9178	Tue	11166 70202 96385 23012 01539 and 11166 70202 15268 23013 01759	FSK 200/1000	(AB)
F06	24-12	1210	7624	Tue	11166 70202 96385 23012 01539 and 11166 70202 15268 23013 01759	FSK 200/1000	(AB)
F06	24-12	1220	5789	Tue	11166 70202 96385 23012 01539 and 11166 70202 15268 23013 01759	FSK 200/1000	(AB)
F06	24-12	1650	12125	Tue	11166 10053 32147 24001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	24-12	1700	10575	Tue	11166 10053 32147 24001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Rycat)
F06	24-12	1710	8131	Tue	11166 10053 32147 24001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	26-12	0700	11046	Thu	11166 70202 19873 25015 01059 and 11166 70202 97854 25016 02159	FSK 200/1000	(AB)
F06	26-12	0710	9065	Thu	11166 70202 19873 25015 01059 and 11166 70202 97854 25016 02159	FSK 200/1000	(AB)
F06	26-12	0720	7479	Thu	11166 70202 19873 25015 01059 and 11166 70202 97854 25016 02159	FSK 200/1000	(AB)
F06	26-12	1200	9178	Thu	11166 70202 19873 25015 01059 and 11166 70202 97854 25016 02159	FSK 200/1000	(AB)
F06	26-12	1210	7624	Thu	11166 70202 19873 25015 01059 and 11166 70202 97854 25016 02159	FSK 200/1000	(AB)
F06	26-12	1220	5789	Thu	11166 70202 19873 25015 01059 and 11166 70202 97854 25016 02159	FSK 200/1000	(AB)
F06	26-12	1330	15946	Thu	11166 80214 16542 25019 00049 00000 00000 00000 00000 (wrong date in the header)	FSK 200/1000	(AB/PY)
F06	26-12	1340	12211	Thu	11166 80214 16542 25019 00049 00000 00000 00000 00000 (wrong date in the header)	FSK 200/1000	(AB)
F06	26-12	1350	10286	Thu	11166 80214 16542 25019 00049 00000 00000 00000 00000 (wrong date in the header)	FSK 200/1000	(AB)
F06	27-12	0700	11046	Fri	11166 70202 87451 27001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	27-12	0710	9065	Fri	11166 70202 87451 27001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	27-12	0720	7479	Fri	11166 70202 87451 27001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	28-12	1700	9064	Sat	11100 00000 95438 27002 02179	FSK 200/1000	(AB)
F06	28-12	1710	6787	Sat	11100 00000 95438 27002 02179	FSK 200/1000	(AB)
F06	28-12	1720	5452	Sat	11100 00000 95438 27002 02179	FSK 200/1000	(AB)
F06	29-12	0830	11122	Sun	11100 00000 95438 27002 02179	FSK 200/1000	(AB-POL)
F06	29-12	0840	9425	Sun	11100 00000 95438 27002 02179	FSK 200/1000	(AB-POL)
F06	29-12	0850	6787	Sun	11100 00000 95438 27002 02179	FSK 200/1000	(AB-RUS)
F06	29-12	1530	12209	Sun	11166 10053 57138 29001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	29-12	1540	9363	Sun	11166 10053 57138 29001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	29-12	1550	8153	Sun	11166 10053 57138 29001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	30-12	0800	12184	Mon	11100 00000 53247 27069 01979	FSK 200/1000	(AB)
F06	30-12	0815	10169	Mon	11100 00000 53247 27069 01979	FSK 200/1000	(AB)
F06	30-12	0830	7739	Mon	11100 00000 53247 27069 01979	FSK 200/1000	(AB)
F06	31-12	0030	9489	Tue	11166 60070 95431 31001 00049 00000 00000 00000 00000	FSK 200/1000	(PY)
F06	31-12	0040	7615	Tue	11166 60070 95431 31001 00049 00000 00000 00000 00000	FSK 200/1000	(PY)
F06	31-12	0050	6983	Tue	11166 60070 95431 31001 00049 00000 00000 00000 00000	FSK 200/1000	(TM)
F06	31-12	0800	12184	Tue	11100 00000 53247 27069 01979	FSK 200/1000	(AB)
F06	31-12	0815	10169	Tue	11100 00000 53247 27069 01979	FSK 200/1000	(AB)
F06	31-12	0830	7739	Tue	11100 00000 53247 27069 01979	FSK 200/1000	(AB)

F06	31-12	1200	9178	Tue	11166 70202 96521 31020 01219 and 11166 70202 65872 31021 02059	FSK 200/1000	(AB)
F06	31-12	1210	7624	Tue	11166 70202 96521 31020 01219 and 11166 70202 65872 31021 02059	FSK 200/1000	(AB)
F06	31-12	1220	5789	Tue	11166 70202 96521 31020 01219 and 11166 70202 65872 31021 02059	FSK 200/1000	(AB)
F06	31-12	1650	12125	Tue	11166 10053 74523 31001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/Rycat)
F06	31-12	1700	10575	Tue	11166 10053 74523 31001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	31-12	1710	8131	Tue	11166 10053 74523 31001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06a	2-12	0700	11046	Mon	File 44492 (binary contents)	FSK 200/1000	(AB)
F06a	2-12	0715	9065	Mon	File 44492 (binary contents)	FSK 200/1000	(AB)
F06a	2-12	0730	7479	Mon	File 44492 (binary contents)	FSK 200/1000	(AB)
F06a	2-12	1200	9178	Mon	File 44492 (binary contents)	FSK 200/1000	(AB)
F06a	2-12	1215	7624	Mon	File 44492 (binary contents)	FSK 200/1000	(AB)
F06a	2-12	1230	5789	Mon	File 44492 (binary contents)	FSK 200/1000	(AB)
F06a	4-12	0102	17532	Wed	ZFD_39 (1536 bytes) 44400 09501 00000 04039 00009	FSK 200/1000	(PY)
F06a	4-12	0117	16351	Wed	ZFD_39 (1536 bytes) 44400 09501 00000 04039 00009	FSK 200/1000	(PY)
F06a	4-12	0132	14428	Wed	ZFD_39 (1536 bytes) 44400 09501 00000 04039 00009	FSK 200/1000	(PY)
F06a	4-12	0600	14369	Wed	File 47419 (binary contents)	FSK 200/1000	(PY)
F06a	4-12	0615	16337	Wed	File 47419 (binary contents)	FSK 200/1000	(PY)
F06a	4-12	0630	19633	Wed	File 47419 (binary contents)	FSK 200/1000	(PY)
F06a	4-12	0700	11046	Wed	File 44495 (binary contents)	FSK 200/1000	(AB)
F06a	4-12	0715	9065	Wed	File 44495 (binary contents)	FSK 200/1000	(AB)
F06a	4-12	0730	7479	Wed	File 44495 (binary contents)	FSK 200/1000	(AB)
F06a	4-12	1200	9178	Wed	File 44495 (binary contents)	FSK 200/1000	(AB)
F06a	4-12	1215	7624	Wed	File 44495 (binary contents)	FSK 200/1000	(AB)
F06a	4-12	1230	5789	Wed	File 44495 (binary contents)	FSK 200/1000	(AB)
F06a	5-12	0102	17532	Thu	ZFD_39 (1536 bytes) 44400 09501 00000 04039 00009	FSK 200/1000	(PY)
F06a	5-12	0117	16351	Thu	ZFD_39 (1536 bytes) 44400 09501 00000 04039 00009	FSK 200/1000	(PY)
F06a	5-12	0600	14369	Thu	File 47419 (binary contents)	FSK 200/1000	(AB/PY)
F06a	5-12	0615	16337	Thu	File 47419 (binary contents)	FSK 200/1000	(AB/PY)
F06a	5-12	0630	19633	Thu	File 47419 (binary contents)	FSK 200/1000	(AB/PY)
F06a	9-12	1200	9178	Mon	File 44498 (binary contents)	FSK 200/1000	(AB)
F06a	9-12	1215	7624	Mon	File 44498 (binary contents)	FSK 200/1000	(AB)
F06a	9-12	1230	5789	Mon	File 44498 (binary contents)	FSK 200/1000	(AB)
F06a	11-12	0100	17532	Wed	File ZFD_40 (1536 bytes) 44400 09501 00000 11040 00009	FSK 200/1000	(PY)
F06a	11-12	0600	14369	Wed	File 04420 (binary contents)	FSK 200/1000	(AB/PY)
F06a	11-12	0615	16337	Wed	File 04420 (binary contents)	FSK 200/1000	(AB/PY)
F06a	11-12	0630	19633	Wed	File 04420 (binary contents)	FSK 200/1000	(AB/PY)
F06a	11-12	0700	11046	Wed	File 44402 (binary contents)	FSK 200/1000	(AB)
F06a	11-12	0715	9065	Wed	File 44402 (binary contents)	FSK 200/1000	(AB)
F06a	11-12	0730	7479	Wed	File 44402 (binary contents)	FSK 200/1000	(AB)
F06a	11-12	1200	9178	Wed	File 44402 (binary contents)	FSK 200/1000	(AB)
F06a	11-12	1215	7624	Wed	File 44402 (binary contents)	FSK 200/1000	(AB)
F06a	11-12	1230	5789	Wed	File 44402 (binary contents)	FSK 200/1000	(AB)

F06a	12-12	0100	17532	Thu	File ZFD_40 (1536 bytes) 44400 09501 00000 11040 00009	FSK 200/1000	(PY)
F06a	12-12	0600	14369	Thu	File 04420 (binary contents)	FSK 200/1000	(AB/PY)
F06a	12-12	0615	16337	Thu	File 04420 (binary contents)	FSK 200/1000	(AB/PY)
F06a	12-12	0630	19633	Thu	File 04420 (binary contents)	FSK 200/1000	(AB/PY)
F06a	16-12	0700	11046	Mon	File 44405 (binary contents)	FSK 200/1000	(AB)
F06a	16-12	0715	9065	Mon	File 44405 (binary contents)	FSK 200/1000	(AB)
F06a	16-12	0730	7479	Mon	File 44405 (binary contents)	FSK 200/1000	(AB)
F06a	16-12	1200	9178	Mon	File 44405 (binary contents)	FSK 200/1000	(AB)
F06a	16-12	1215	7624	Mon	File 44405 (binary contents)	FSK 200/1000	(AB)
F06a	16-12	1230	5789	Mon	File 44405 (binary contents)	FSK 200/1000	(AB)
F06a	18-12	0100	17532	Wed	File ZFD41~1 (1536 bytes) 44400 09501 00000 18041 00009	FSK 200/1000	(PY)
F06a	18-12	0600	14369	Wed	File 44421 (binary contents)	FSK 200/1000	(AB/PY)
F06a	18-12	0615	16337	Wed	File 44421 (binary contents)	FSK 200/1000	(AB/PY)
F06a	18-12	0630	19633	Wed	File 44421 (binary contents)	FSK 200/1000	(AB/PY)
F06a	18-12	0700	11046	Wed	File 44408 (binary contents)	FSK 200/1000	(AB)
F06a	18-12	0715	9065	Wed	File 44408 (binary contents)	FSK 200/1000	(AB)
F06a	18-12	0730	7479	Wed	File 44408 (binary contents)	FSK 200/1000	(AB)
F06a	18-12	1200	9178	Wed	File 44408 (binary contents)	FSK 200/1000	(AB)
F06a	18-12	1215	7624	Wed	File 44408 (binary contents)	FSK 200/1000	(AB)
F06a	18-12	1230	5789	Wed	File 44408 (binary contents)	FSK 200/1000	(AB)
F06a	19-12	0100	17532	Thu	File ZFD41~1 (1536 bytes) 44400 09501 00000 18041 00009 late start	FSK 200/1000	(PY)
F06a	19-12	0600	14369	Thu	File 44421 (binary contents)	FSK 200/1000	(AB/PY)
F06a	19-12	0615	16337	Thu	File 44421 (binary contents)	FSK 200/1000	(AB)
F06a	19-12	0630	19633	Thu	File 44421 (binary contents)	FSK 200/1000	(AB)
F06a	23-12	0700	11046	Mon	File 44411 (binary contents)	FSK 200/1000	(AB)
F06a	23-12	0715	9065	Mon	File 44411 (binary contents)	FSK 200/1000	(AB)
F06a	23-12	0730	7479	Mon	File 44411 (binary contents)	FSK 200/1000	(AB)
F06a	23-12	1200	9178	Mon	File 44411 (binary contents)	FSK 200/1000	(AB)
F06a	23-12	1215	7624	Mon	File 44411 (binary contents)	FSK 200/1000	(AB)
F06a	23-12	1230	5789	Mon	File 44411 (binary contents)	FSK 200/1000	(AB)
F06a	24-12	1600	9064	Tue	File 44404 (binary contents, 1812 bytes, empty text header)	FSK 200/1000	(PY)
F06a	24-12	1615	6792	Tue	File 44404 (binary contents, 1812 bytes, empty text header)	FSK 200/1000	(PY)
F06a	24-12	1630	4565	Tue	File 44404 (binary contents, 1812 bytes, empty text header)	FSK 200/1000	(PY)
F06a	25-12	0100	17532	Wed	File ZFD42~1 (2048 bytes) 44400 09501 00000 25042 00009	FSK 200/1000	(PY)
F06a	25-12	0600	14369	Wed	File 49422 (binary contents)	FSK 200/1000	(AB/PY)
F06a	25-12	0615	16337	Wed	File 49422 (binary contents)	FSK 200/1000	(AB)
F06a	25-12	0630	19633	Wed	File 49422 (binary contents)	FSK 200/1000	(AB)
F06a	25-12	0700	11046	Wed	File 44714 (binary contents)	FSK 200/1000	(AB)
F06a	25-12	0715	9065	Wed	File 44714 (binary contents)	FSK 200/1000	(AB)
F06a	25-12	0730	7479	Wed	File 44714 (binary contents)	FSK 200/1000	(AB)
F06a	25-12	1200	9178	Wed	File 44714 (binary contents)	FSK 200/1000	(AB)
F06a	25-12	1215	7624	Wed	File 44714 (binary contents)	FSK 200/1000	(AB)

F06a	25-12	1230	5789	Wed	File 44714 (binary contents)	FSK 200/1000	(AB)
F06a	26-12	0100	17532	Thu	File ZFD42~1 (2048 bytes) 44400 09501 00000 25042 00009	FSK 200/1000	(PY)
F06a	26-12	0116	16351	Thu	File ZFD42~1 (2048 bytes) 44400 09501 00000 25042 00009	FSK 200/1000	(PY)
F06a	26-12	0131	14428	Thu	File ZFD42~1 (2048 bytes) 44400 09501 00000 25042 00009	FSK 200/1000	(PY)
F06a	26-12	0600	14369	Thu	File 49422 (binary contents)	FSK 200/1000	(AB)
F06a	26-12	0615	16337	Thu	File 49422 (binary contents)	FSK 200/1000	(AB/PY)
F06a	26-12	0630	19633	Thu	File 49422 (binary contents)	FSK 200/1000	(AB/PY)
F06a	26-12	0700	6791	Thu	File 44485 (binary contents)	FSK 200/1000	(PY)
F06a	26-12	0715	9067	Thu	File 44485 (binary contents)	FSK 200/1000	(AB/PY)
F06a	26-12	0730	11122	Thu	File 44485 (binary contents)	FSK 200/1000	(AB/PY)
F06a	27-12	0100	17532	Fri	11100 09501 00000 27009 00049 00000 00000 00000 00000 late start	FSK 200/1000	(PY)
F06a	27-12	2000	6825	Fri	File 40437 (2218 bytes, binary contents)	FSK 200/1000	(PY)
F06a	27-12	2015	5093	Fri	File 40437 (2218 bytes, binary contents)	FSK 200/1000	(PY)
F06a	27-12	2030	4475	Fri	File 40437 (2218 bytes, binary contents)	FSK 200/1000	(PY)
F06a	28-12	0700	11572	Sat	File 40437 (2218 bytes, binary contents)	FSK 200/1000	(PY)
F06a	28-12	0715	10461	Sat	File 40437 (2218 bytes, binary contents)	FSK 200/1000	(PY)
F06a	28-12	0730	9356	Sat	File 40437 (2218 bytes, binary contents)	FSK 200/1000	(PY)
F06a	30-12	0700	11046	Mon	File 44419 (binary contents)	FSK 200/1000	(AB)
F06a	30-12	0715	9065	Mon	File 44419 (binary contents)	FSK 200/1000	(AB)
F06a	30-12	0730	7479	Mon	File 44419 (binary contents)	FSK 200/1000	(AB)
F06a	30-12	1200	9178	Mon	not found	FSK 200/1000	(AB)
F06a	30-12	1215	7624	Mon	File 44419 (binary contents)	FSK 200/1000	(AB-BLR)
F06a	30-12	1230	5789	Mon	File 44419 (binary contents)	FSK 200/1000	(AB-BLR)
F07	3-12	2100	7526	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	3-12	2110	7453	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	3-12	2120	6993	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	3-12	2130	6773	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	3-12	2140	5748	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	3-12	2150	5169	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	5-12	2100	7526	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	5-12	2110	7453	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	5-12	2120	6993	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	5-12	2130	6773	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	5-12	2140	5748	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	5-12	2150	5169	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	10-12	2100	7526	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	10-12	2110	7453	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	10-12	2120	6993	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	10-12	2130	6773	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	10-12	2140	5748	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	10-12	2150	5169	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	12-12	2100	7526	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)

F07	12-12	2110	7453	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	12-12	2120	6993	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	12-12	2130	6773	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	12-12	2140	5748	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	12-12	2150	5169	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	16-12	2140	5748	Mon	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	17-12	2100	7526	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	17-12	2110	7453	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	17-12	2120	6993	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	17-12	2130	6773	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	17-12	2140	5748	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	17-12	2150	5169	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	19-12	2100	7526	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	19-12	2110	7453	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	19-12	2120	6993	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	19-12	2130	6773	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	19-12	2140	5748	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	19-12	2150	5169	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	24-12	2100	7526	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	24-12	2110	7453	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	24-12	2120	6993	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	24-12	2130	6773	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	24-12	2140	5748	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	24-12	2150	5169	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	26-12	2100	7526	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	26-12	2110	7453	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	26-12	2120	6993	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	26-12	2130	6773	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	26-12	2150	5169	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	31-12	2100	7526	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	31-12	2110	7453	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	31-12	2120	6993	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	31-12	2130	6773	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	31-12	2140	5748	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	31-12	2150	5169	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
KRE	2-12	0632	16252	Mon	DPRK embassy Moscow clg Permanent Mission Geneva	DPRK-ARQ 600 LSB	(AB)
KRE	2-12	0647	16252	Mon	DPRK embassy Moscow clg embassy Rome	DPRK-ARQ 600 LSB	(AB)
KRE	2-12	0649	16252	Mon	DPRK embassy Moscow clg embassy Rome	DPRK-ARQ 600 LSB	(AB)
KRE	2-12	0735	14300	Mon	DPRK embassy Moscow clg embassy Berlin	DPRK-ARQ 600 LSB	(AB)
KRE	2-12	0803	16252	Mon	DPRK embassy Moscow clg embassy Stockholm	DPRK-ARQ 600 LSB	(AB)
KRE	2-12	1210	16250	Mon	Unid DPRK embassy wkg embassy Moscow	DPRK-ARQ 600 LSB	(AB)
KRE	2-12	1231	16252	Mon	DPRK embassy Moscow clg unid embassy	DPRK-ARQ 600 LSB	(AB)

KRE	2-12	1301	16252	Mon	DPRK embassy Moscow clg Permanent Mission Geneva	DPRK-ARQ 600 LSB	(AB)
KRE	3-12	0810	16252	Tue	DPRK embassy Moscow clg embassy Stockholm	DPRK-ARQ 600 LSB	(AB)
KRE	3-12	1203	14800	Tue	DPRK embassy Rome wkg DPRK embassy Moscow	DPRK-ARQ 600 LSB	(AB)
KRE	3-12	1203	16252	Tue	DPRK embassy Moscow wkg DPRK embassy Stockholm	DPRK-ARQ 600 LSB	(AB)
KRE	3-12	1213	15500	Tue	DPRK embassy wkg DPRK embassy Moscow	DPRK-ARQ 600 LSB	(AB)
KRE	3-12	1229	16252	Tue	DPRK embassy Moscow message to embassy Rome	DPRK-ARQ 600 LSB	(AB)
KRE	3-12	1235	14100	Tue	DPRK embassy Moscow wkg DPRK embassy Wien	DPRK-ARQ 600 LSB	(AB)
KRE	3-12	1240	18650	Tue	DPRK embassy Rome wkg DPRK embassy Moscow	DPRK-ARQ 600 LSB	(AB)
KRE	3-12	1306	16252	Tue	DPRK embassy Moscow clg Permanent Mission Geneva	DPRK-ARQ 600 LSB	(AB)
KRE	3-12	1353	15500	Tue	DPRK embassy wkg DPRK embassy Moscow	DPRK-ARQ 600 LSB	(AB)
KRE	5-12	1222	16252	Thu	DPRK embassy Moscow wkg DPRK embassy Berlin	DPRK-ARQ 600 LSB	(AB)
KRE	5-12	1233	16252	Thu	DPRK embassy Moscow wkg DPRK embassy Rome	DPRK-ARQ 600 LSB	(AB)
KRE	5-12	1233	18650	Thu	DPRK embassy Rome wkg embassy Moscow	DPRK-ARQ 600 LSB	(AB)
KRE	5-12	1305	16252	Thu	DPRK embassy Moscow clg Permanent Mission Geneva	DPRK-ARQ 600 LSB	(AB)
KRE	6-12	1010	16380	Fri	Unid embassy clg DPRK embassy Moscow	DPRK-ARQ 600 LSB	(AB)
KRE	6-12	1017	16380	Fri	DPRK embassy Rome clg DPRK embassy Moscow	DPRK-ARQ 600 LSB	(AB)
KRE	6-12	1059	16380	Fri	DPRK embassy Rome clg DPRK embassy Moscow	DPRK-ARQ 600 LSB	(AB)
KRE	6-12	1233	18650	Fri	DPRK embassy Rome wkg DPRK embassy Moscow	DPRK-ARQ 600 LSB	(AB)
KRE	6-12	1242	18650	Fri	DPRK embassy Rome wkg DPRK embassy Moscow	DPRK-ARQ 600 LSB	(AB)
KRE	7-12	1231	18650	Sat	Unid embassy wkg DPRK embassy Moscow	DPRK-ARQ 600 LSB	(AB)
KRE	7-12	1239	18650	Sat	DPRK embassy Moscow wkg DPRK embassy Sofia	DPRK-ARQ 600 LSB	(AB)
KRE	9-12	1117	16252	Mon	Unid embassy wkg DPRK embassy Moscow	DPRK-ARQ 600	(AB)
KRE	9-12	1203	16252	Mon	DPRK embassy Moscow wkg DPRK embassy Stockholm	DPRK-ARQ 600	(AB)
KRE	9-12	1231	16252	Mon	DPRK embassy Moscow wkg DPRK embassy Rome	DPRK-ARQ 600	(AB)
KRE	9-12	1231	18650	Mon	DPRK embassy Rome wkg DPRK embassy Moscow	DPRK-ARQ 600	(AB)
KRE	9-12	1238	13600	Mon	Unid embassy wkg DPRK embassy Moscow	DPRK-ARQ 600	(AB)
KRE	9-12	1256	16252	Mon	DPRK embassy Moscow wkg DPRK embassy Stockholm	DPRK-ARQ 600	(AB)
KRE	10-12	1231	16252	Tue	DPRK embassy Moscow wkg DPRK embassy Rome	DPRK-ARQ 600 LSB	(AB)
KRE	10-12	1301	16252	Tue	DPRK embassy Moscow wkg DPRK embassy Stockholm	DPRK-ARQ 600 LSB	(AB)
KRE	11-12	0652	16252	Wed	DPRK embassy Moscow wkg DPRK embassy Rome	DPRK-ARQ 600Bd/600Hz LSB	(AB)
KRE	11-12	0700	14650	Wed	DPRK embassy Rome wkg DPRK embassy Moscow	DPRK-ARQ 1200Bd/600Hz LSB	(AB)
KRE	11-12	0806	16252	Wed	DPRK embassy Moscow wkg DPRK embassy Stockholm	DPRK-ARQ 600Bd/600Hz LSB	(AB)
KRE	11-12	1231	14650	Wed	Unid embassy wkg DPRK embassy Moscow. Switched to 600Bd at 1234z	DPRK-ARQ 1200Bd/600Hz LSB	(AB)
KRE	11-12	1316	16252	Wed	DPRK embassy Moscow wkg DPRK Permanent VN Mission Geneve	DPRK-ARQ 600Bd/600Hz LSB	(AB)
KRE	12-12	0631	16252	Thu	DPRK embassy Rome wkg DPRK embassy Moscow	DPRK-ARQ 600 LSB	(AB)
KRE	12-12	0635	18655	Thu	DPRK embassy Cairo wkg DPRK embassy Moscow	DPRK-ARQ 600 LSB	(AB)
KRE	12-12	0804	16252	Thu	DPRK embassy Moscow wkg DPRK embassy Stockholm	DPRK-ARQ 600 LSB	(AB)
KRE	12-12	1302	18655	Thu	DPRK embassy Cairo wkg DPRK embassy Moscow	DPRK-ARQ 600 LSB	(AB)
KRE	12-12	1600	16252	Thu	DPRK embassy Moscow wkg DPRK embassy Rome	DPRK-ARQ 600 LSB	(AB)
KRE	16-12	0805	14222	Mon	DPRK embassy Stockholm wkg DPRK embassy Moscow	DPRK-ARQ 600 LSB	(AB)
KRE	16-12	1230	16252	Mon	DPRK embassy Moscow wkg DPRK embassy Rome	DPRK-ARQ 600 LSB	(AB)
KRE	16-12	1307	16252	Mon	DPRK embassy Moscow wkg DPRK Permanent VN Mission Geneve	DPRK-ARQ 600 LSB	(AB)

KRE	18-12	0807	14222	Wed	Unid DPRK embassy clg DPRK embassy Moscow	DPRK-ARQ 600Bd/600Hz LSB	(AB)
KRE	18-12	1301	16252	Wed	DPRK embassy Moscow wkg DPRK Permanent VN Mission Geneve	DPRK-ARQ 600Bd/600Hz LSB	(AB)
KRE	19-12	1308	18655	Thu	Unid DPRK embassy wkg DPRK embassy Moscow	DPRK-ARQ 600 LSB	(AB)
KRE	20-12	0654	16252	Fri	DPRK embassy Rome wkg DPRK embassy Moscow	DPRK-ARQ 600/600 LSB	(AB)
KRE	20-12	0707	13200	Fri	DPRK embassy Moscow wkg DPRK embassy Rome	DPRK-ARQ 600/600 LSB	(AB)
KRE	21-12	1303	16250	Sat	DPRK Permanent Mission Geneva wkg DPRK embassy Moscow	DPRK-ARQ LSB 600Bd/600Hz	(AB)
KRE	23-12	0634	14350	Mon	DPRK embassy Moscow wkg DPRK Permanent Mission Geneva	DPRK-ARQ 600/600	(AB)
KRE	23-12	0641	16252	Mon	Unid DPRK embassy wkg DPRK embassy Moscow	DPRK-ARQ 600/600	(AB)
KRE	23-12	0700	13200	Mon	DPRK embassy Moscow wkg DPRK embassy Warsaw	DPRK-ARQ 600/600	(AB)
KRE	23-12	1203	16250	Mon	DPRK embassy Stockholm wkg DPRK embassy Moscow	DPRK-ARQ 600/600	(AB)
KRE	23-12	1203	16252	Mon	DPRK embassy Moscow wkg DPRK embassy Stockholm	DPRK-ARQ 600/600	(AB)
KRE	23-12	1212	15550	Mon	DPRK embassy Moscow wkg DPRK embassy Bucharest	DPRK-ARQ 600/600	(AB)
KRE	23-12	1232	13200	Mon	DPRK embassy Moscow two messages to DPRK embassy Warsaw	DPRK-ARQ 600/600	(AB)
KRE	23-12	1233	16252	Mon	DPRK embassy Moscow wkg DPRK embassy Rome	DPRK-ARQ 600/600	(AB)
KRE	23-12	1250	14650	Mon	Unid DPRK embassy wkg DPRK embassy Moscow	DPRK-ARQ 600/600	(AB)
KRE	23-12	1303	14350	Mon	DPRK embassy Moscow wkg DPRK Permanent Mission Geneva	DPRK-ARQ 600/600	(AB)
KRE	23-12	1303	16250	Mon	Unid DPRK embassy wkg DPRK embassy Moscow	DPRK-ARQ 600/600	(AB)
KRE	24-12	0650	16252	Tue	DPRK embassy Moscow wkg DPRK embassy Rome	DPRK-ARQ 600/600 LSB	(AB)
KRE	24-12	0702	13200	Tue	DPRK embassy Moscow wkg DPRK embassy Warsaw	DPRK-ARQ 600/600 LSB	(AB)
KRE	24-12	0805	16252	Tue	DPRK embassy Moscow wkg DPRK embassy Rome	DPRK-ARQ 600/600 LSB	(AB)
KRE	24-12	1207	16252	Tue	DPRK embassy Moscow msgs 4046 and 4047 to DPRK embassy Stockholm	DPRK-ARQ 600/600 LSB	(AB)
KRE	24-12	1212	16252	Tue	Unid DPRK embassy wkg DPRK embassy Moscow	DPRK-ARQ 600/600 LSB	(AB)
KRE	24-12	1230	16252	Tue	DPRK embassy Moscow wkg DPRK embassy Rome	DPRK-ARQ 600/600 LSB	(AB)
KRE	24-12	1234	13200	Tue	DPRK embassy Moscow wkg DPRK embassy Warsaw	DPRK-ARQ 600/600 LSB	(AB)
KRE	24-12	1306	16252	Tue	DPRK embassy Moscow msgs 4046 and 4047 DPRK embassy Stockholm	DPRK-ARQ 600/600 LSB	(AB)
KRE	24-12	1331	13200	Tue	DPRK embassy Moscow msg 4046 to DPRK embassy Sofia	DPRK-ARQ 600/600 LSB	(AB)
KRE	25-12	0743	14300	Wed	DPRK embassy Moscow wkg DPRK embassy Berlin	DPRK-ARQ 600/600 LSB	(AB)
KRE	25-12	0828	15500	Wed	DPRK embassy Moscow wkg DPRK embassy Bucharest	DPRK-ARQ 600/600 LSB	(AB)
KRE	25-12	1315	16252	Wed	DPRK embassy Moscow wkg Permanent Mission Geneva	DPRK-ARQ 600/600 LSB	(AB)
KRE	25-12	1317	16250	Wed	Unid DPRK embassy wkg DPRK embassy Moscow	DPRK-ARQ 600/600 LSB	(AB)
KRE	25-12	1332	13200	Wed	DPRK embassy Moscow wkg DPRK embassy Sofia	DPRK-ARQ 600/600 LSB	(AB)
KRE	25-12	1334	14600	Wed	Unid DPRK embassy wkg DPRK embassy Moscow	DPRK-ARQ 600/600 LSB	(AB)
KRE	25-12	1335	15500	Wed	DPRK embassy Moscow wkg DPRK embassy Bucharest	DPRK-ARQ 600/600 LSB	(AB)
KRE	25-12	1346	13200	Wed	DPRK embassy Moscow wkg DPRK embassy Sofia	DPRK-ARQ 600/600 LSB	(AB)
KRE	26-12	1205	14300	Thu	DPRK embassy Moscow wkg DPRK embassy Berlin	DPRK-ARQ 600/600 LSB	(AB)
KRE	26-12	1207	16252	Thu	DPRK embassy Moscow msg 4073 to Permanent Mission Geneva	DPRK-ARQ 600/600 LSB	(AB)
KRE	26-12	1232	16252	Thu	DPRK embassy Moscow wkg DPRK embassy Rome	DPRK-ARQ 600/600 LSB	(AB)
KRE	26-12	1233	13200	Thu	DPRK embassy Moscow clg DPRK embassy Warsaw	DPRK-ARQ 600/600 LSB	(AB)
KRE	26-12	1244	16252	Thu	DPRK embassy Moscow wkg DPRK embassy Rome	DPRK-ARQ 600/600 LSB	(AB)
KRE	26-12	1252	16252	Thu	DPRK embassy Moscow msg 4073 to Permanent Mission Geneva	DPRK-ARQ 600/600 LSB	(AB)
KRE	26-12	1255	16250	Thu	Unid DPRK embassy clg DPRK embassy Moscow	DPRK-ARQ 600/600 LSB	(AB)
KRE	26-12	1321	16250	Thu	Unid DPRK embassy clg DPRK embassy Moscow	DPRK-ARQ 600/600 LSB	(AB)



<b>KRE</b>	26-12	1325	16252	Thu	DPRK embassy Moscow wkg Permanent Mission Geneva	DPRK-ARQ 600/600 LSB	(AB)
<b>KRE</b>	26-12	1333	13200	Thu	DPRK embassy Moscow clg DPRK embassy Sofia	DPRK-ARQ 600/600 LSB	(AB)
<b>KRE</b>	26-12	1338	16252	Thu	DPRK embassy Moscow wkg DPRK embassy Stockholm	DPRK-ARQ 600/600 LSB	(AB)
<b>KRE</b>	26-12	1342	13200	Thu	DPRK embassy Moscow clg DPRK embassy Warsaw	DPRK-ARQ 600/600 LSB	(AB)
<b>KRE</b>	26-12	1343	16252	Thu	DPRK embassy Moscow wkg DPRK embassy Rome	DPRK-ARQ 600/600 LSB	(AB)
<b>KRE</b>	26-12	1345	16252	Thu	DPRK embassy Moscow wkg DPRK embassy Stockholm	DPRK-ARQ 600/600 LSB	(AB)
<b>KRE</b>	26-12	1346	16250	Thu	Unid DPRK embassy clg DPRK embassy Moscow	DPRK-ARQ 600/600 LSB	(AB)
<b>KRE</b>	27-12	0632	13200	Fri	DPRK embassy Moscow wkg DPRK embassy Sofia	DPRK-ARQ 600/600 LSB	(AB)
<b>KRE</b>	27-12	0633	16252	Fri	DPRK embassy Moscow wkg Permanent Mission Geneva	DPRK-ARQ 600/600 LSB	(AB)
<b>KRE</b>	27-12	0648	16252	Fri	DPRK embassy Moscow wkg DPRK embassy Rome	DPRK-ARQ 600/600 LSB	(AB)
<b>KRE</b>	27-12	0807	16252	Fri	DPRK embassy Moscow wkg DPRK embassy Stockholm	DPRK-ARQ 600/600 LSB	(AB)
<b>KRE</b>	30-12	1234	16252	Mon	DPRK embassy Rome wkg DPRK embassy Moscow	DPRK-ARQ 600/600 LSB	(AB)
<b>KRE</b>	31-12	0808	15500	Tue	DPRK embassy Moscow wkg DPRK embassy Bucharest	DPRK-ARQ 600/600 LSB	(AB)
<b>KRE</b>	31-12	1231	16252	Tue	DPRK embassy Moscow wkg DPRK embassy Rome	DPRK-ARQ 600/600 LSB	(AB)
<b>KRE</b>	31-12	1233	13200	Tue	DPRK embassy Moscow message 4113 to DPRK embassy Warsaw	DPRK-ARQ 600/600 LSB	(AB)
<b>KRE</b>	31-12	1236	18650	Tue	DPRK embassy Moscow wkg DPRK Permanent VN Mission Geneve	DPRK-ARQ 600/600 LSB	(AB)
<b>KRE</b>	31-12	1304	16252	Tue	DPRK embassy Moscow wkg DPRK Permanent VN Mission Geneve	DPRK-ARQ 600/600 LSB	(AB)
<b>KRE</b>	31-12	1333	13200	Tue	DPRK embassy Moscow wkg DPRK embassy Sofia	DPRK-ARQ 600/600 LSB	(AB)
<b>KRE</b>	31-12	1424	16252	Tue	DPRK embassy Moscow wkg DPRK Permanent VN Mission Geneve	DPRK-ARQ 600/600 LSB	(AB)
<b>KRE</b>	31-12	1527	18650	Tue	DPRK embassy Rome wkg DPRK embassy Moscow	DPRK-ARQ 600/600 LSB	(AB)
<b>M01</b>	3-12	1800	5320	Tue	197 224 224 30 30 = = 33645 10978 57687 ... 28699 58698 50098 = = 224 224 30 30 000	CW	(AB)
<b>M01</b>	3-12	2000	4490	Tue	197 369 369 30 30 = = 53676 19366 49309 ... 10900 63756 39309 = = 369 369 30 30 000	CW	(AB-S)
<b>M01</b>	5-12	2000	4490	Thu	197 231 231 30 30 = = 91827 47581 94857 ... 47589 19283 74658 = = 231 231 30 30 0 ..... 0 ..... 0	CW	(AB)
<b>M01</b>	7-12	1500	5810	Sat	197 (also 917, 179, 171, 177, 971) 798 798 30 30 = = 47394 53204 57194 ... 17463 93086 36435 789 789 30 30 000	CW	(AB)
<b>M01</b>	8-12	0700	5465	Sun	197 (also 179, 971, 171, 717, 719, 919) 182 182 30 30 = = 47334 58374 59435 ... 53403 53694 13574 = = 182 182 30 30 000	CW	(AB)
<b>M01</b>	8-12	0715	9566	Sun	475 (too weak to copy)	CW/USB	(PY)
<b>M01</b>	12-12	1800	5320	Thu	197 876 876 30 30 = = 12678 34567 98361 ... 37418 59037 47391 = = 876 876 30 30 000	CW	(AB)
<b>M01</b>	12-12	2000	4490	Thu	197 456 456 30 30 = = 12345 98584 38472 ... 45673 17463 56749 = = 46 456 30 30 000. Sent only 27 groups	CW	(AB)
<b>M01</b>	14-12	0715	9566	Sat	475 126 126 50 50 = = 81795 57784 73123 ... 57255 81022 73449 = = 126 126 50 50 00000	CW/USB	(AB)
<b>M01</b>	14-12	1500	5810	Sat	197 839 839 30 30 82736 47586 19283 ... 47563 94857 23647 839 839 30 30 000. Sent only 29 groups	CW	(AB)
<b>M01</b>	15-12	0657	5465	Sun	197 515 151 30 30 74653 19283 84758 ... 74589 28374 98722 515 515 30 30 000	CW	(AB)
<b>M01</b>	17-12	2000	4490	Tue	197 719 719 30 30 = = 54759 16273 82938 ... 49583 48576 19203 = = 719 719 30 30 000	CW	(AB)

<b>M01</b>	19-12	1800	5320	Thu	It was a mess. 66919 191 111111199919979777 197 117 1 197 etc. 404 404 30 30 = = 45393 23093 11933 ... 59343 23096 00954 404 4044 30 30 000	CW	(AB)
<b>M01</b>	19-12	2000	4490	Thu	197 345 345 30 30 = = (too poor to copy)	CW	(AB)
<b>M01</b>	21-12	0715	9566	Sat	475 195 195 50 50 = = 62203 14061 40545 ... 27782 64482 72560 = = 195 195 50 50 000	CW/USB	(AB)
<b>M01</b>	21-12	1500	5810	Sat	197 345 345 30 30 = = 57493 59174 18538 ... 37182 48264 78953 = = 345 345 30 0 ..... 0 ..... 0	CW	(AB-FIN)
<b>M01</b>	22-12	0702	5465	Sun	197 195 195 30 30 = = 46281 48925 47581 ... 76531 47290 34739 = = 195 195 30 30 000	CW	(AB)
<b>M01</b>	22-12	0715	9566	Sun	475 195 195 50 50 = = 62203 14061 40545 ... 27782 64482 72560 = = 195 195 50 50 000	CW USB	(AB-POL)
<b>M01</b>	24-12	1800	5320	Tue	197 234 234 30 30 = = 56715 34271 78906 ... 84963 68371 78901 = = 234 234 30 30 000	CW	(AB)
<b>M01</b>	24-12	2000	4490	Tue	197 898 898 30 30 = = 76847 17362 87124 ... 56432 12367 67867 = = 898 898 30 30 000	CW	(AB)
<b>M01</b>	26-12	1800	5320	Thu	197 230 230 30 30 14726 36901 45923 ... 48321 49583 90483 230 230 30 30 000	CW	(AB)
<b>M01</b>	28-12	0715	9566	Sat	475 231 231 50 50 = = 61277 44742 05462 ... 17520 83502 01005 = = 231 231 50 50 000	CW/USB	(AB-FIN)
<b>M01</b>	28-12	1500	5810	Sat	197 190 190 30 30 = = 07898 15243 48898 ... 22664 50980 47687 = = 190 190 30 30 000	CW	(AB)
<b>M01</b>	29-12	0700	5465	Sun	197 202 202 30 30 = = 44756 19870 79890 ... 59870 98609 44098 = = 202 202 30 (1x) 000	CW	(AB-POL)
<b>M01</b>	29-12	0715	9566	Sun	475 231 231 50 50 = = 61277 44742 05462 ... 17520 83502 01005 = = 231 231 50 50 000	CW/USB	(AB-POL/HFD)
<b>M01</b>	31-12	1800	5320	Tue	197 456 456 30 30 = = 64733 57463 36754 ... 54673 45676 37645 = = 456 456 30 30 000	CW	(AB)
<b>M01</b>	31-12	2000	4490	Tue	197 232 232 30 30 = = 36475 53723 12343 ... 65343 65343 75343 = = 232 232 30 30 000. Only 28 groups were sent	CW	(AB)
<b>M12</b>	2-12	0010	14947	Mon	941:941 941 1 ...	CW	(HFD-J)
<b>M12</b>	2-12	0030	13447	Mon	941:941 941 1 ...	CW	(HFD-J)
<b>M12</b>	2-12	0050	12147	Mon	941:941 941 1 ...	CW	(HFD-J)
<b>M12</b>	2-12	2300	9134	Mon	457 457 457 1 ...	CW	(HFD)
<b>M12</b>	2-12	2320	8134	Mon	457 457 457 1 ...	CW	(HFD)
<b>M12</b>	2-12	2340	7534	Mon	457 457 457 1 ...	CW	(HFD)
<b>M12</b>	3-12	0300	14354	Tue	311 311 311 1 ...	CW	(HFD-J)
<b>M12</b>	3-12	0320	12154	Tue	311 311 311 1 ...	CW	(HFD-J)
<b>M12</b>	3-12	0340	11154	Tue	311 311 311 1 ...	CW	(HFD-J)
<b>M12</b>	3-12	1100	11519	Tue	289 289 289 1 9464 59 9464 59 23260 65341 18953 ... 19192 75617 76555 000 000	CW	(AB)
<b>M12</b>	3-12	1120	12194	Tue	289 289 289 1 9464 59 9464 59 23260 65341 18953 ... 19192 75617 76555 000 000	CW	(AB)
<b>M12</b>	3-12	1140	13407	Tue	289 289 289 1 9464 59 9464 59 23260 65341 18953 ... 19192 75617 76555 000 000	CW	(AB)
<b>M12</b>	4-12	2000	6792	Wed	780 780 780 1 107 135 107 135 14568 71833 18487 ... 27419 10739 43633 000 000	CW	(AB/HFD)
<b>M12</b>	4-12	2020	5892	Wed	780:1	CW	(HFD)

M12	4-12	2040	5092	Wed	780:1	CW	(HFD)
M12	4-12	2310	11129	Wed	133 133 133 1 ...	CW	(HFD)
M12	4-12	2336	10329	Wed	133 133 133 1 ...	CW	(HFD)
M12	5-12	0002	9329	Thu	133 133 133 1 ...	CW	(HFD)
M12	5-12	1800	11435	Thu	938 938 938 1 4654 75 4654 75 12270 38674 28618 ... _2_17_4943 89871 000 000	CW	(AB)
M12	5-12	1820	10598	Thu	938 938 938 1 4654 75 4654 75 12270 38674 28618 ... _2_17_4943 89871 000 000	CW	(AB)
M12	5-12	1840	9327	Thu	938 938 938 1 4654 75 4654 75 12270 38674 28618 ... _2_17_4943 89871 000 000	CW	(AB)
M12	6-12	2000	6792	Fri	780 780 780 1 107 135 107 135 14568 71833 18487 ... 27419 10739 43633 000 000	CW	(AB)
M12	6-12	2020	5892	Fri	780 780 780 1 107 135 107 135 14568 71833 18487 ... 27419 10739 43633 000 000	CW	(AB)
M12	6-12	2040	5092	Fri	780 780 780 1 107 135 107 135 14568 71833 18487 ... 27419 10739 43633 000 000	CW	(AB)
M12	6-12	2200	5832	Fri	887 887 887 1 1283 98 1283 98 14990 53118 96542 ... 38932 54512 68614 000 000	CW	(AB/HFD)
M12	6-12	2220	6832	Fri	887 887 887 1 1283 98 1283 98 14990 53118 96542 ... 38932 54512 68614 000 000	CW	(AB/HFD)
M12	6-12	2240	7732	Fri	887 887 887 1 1283 98 1283 98 14990 53118 96542 ... 38932 54512 68614 000 000	CW	(AB/HFD)
M12	7-12	2200	5832	Sat	887 887 887 1 1283 98 1283 98 14990 53118 96542 ... 38932 54512 68614 000 000	CW	(AB)
M12	7-12	2220	6832	Sat	887 887 887 1 1283 98 1283 98 14990 53118 96542 ... 38932 54512 68614 000 000	CW	(AB)
M12	7-12	2240	7732	Sat	887 887 887 1 1283 98 1283 98 14990 53118 96542 ... 38932 54512 68614 000 000	CW	(AB)
M12	10-12	1100	11519	Tue	289 289 289 1 9580 55 9580 55 76365 38354 24833... 37806 73622 22577 000 000	CW	(AB)
M12	10-12	1120	12194	Tue	289 289 289 1 9580 55 9580 55 76365 38354 24833... 37806 73622 22577 000 000	CW	(AB)
M12	10-12	1140	13407	Tue	289 289 289 1 9580 55 9580 55 76365 38354 24833... 37806 73622 22577 000 000	CW	(AB)
M12	11-12	2000	6792	Wed	780 780 780 1 107 135 107 135 14568 71833 18487 ... 27419 10739 43633 000 000	CW	(AB)
M12	11-12	2020	5892	Wed	780 780 780 1 107 135 107 135 14568 71833 18487 ... 27419 10739 43633 000 000	CW	(AB)
M12	11-12	2040	5092	Wed	780 780 780 1 107 135 107 135 14568 71833 18487 ... 27419 10739 43633 000 000	CW	(AB)
M12	12-12	1800	11435	Thu	938 938 938 1 ... too weak to copy	CW	(AB)
M12	12-12	1820	10598	Thu	938 938 938 1 ... too weak to copy	CW	(AB)
M12	12-12	1840	9327	Thu	938 938 938 1 ... too weak to copy	CW	(AB)
M12	13-12	2000	6792	Fri	780 780 780 1 107 135 107 135 14568 71833 18487 ... 27419 10739 43633 000 000	CW	(AB)
M12	13-12	2020	5892	Fri	780 780 780 1 107 135 107 135 14568 71833 18487 ... 27419 10739 43633 000 000	CW	(AB)
M12	13-12	2040	5092	Fri	780 780 780 1 107 135 107 135 14568 71833 18487 ... 27419 10739 43633 000 000	CW	(AB)
M12	13-12	2200	5832	Fri	887 887 887 1 1283 98 1283 98 14990 53118 96542 ... 38932 54512 68614 000 000	CW	(AB)
M12	13-12	2220	6832	Fri	887 887 887 1 1283 98 1283 98 14990 53118 96542 ... 38932 54512 68614 000 000	CW	(AB)
M12	13-12	2240	7732	Fri	887 887 887 1 1283 98 1283 98 14990 53118 96542 ... 38932 54512 68614 000 000	CW	(AB)
M12	14-12	2200	5832	Sat	887 887 887 1 1283 98 1283 98 14990 53118 96542 ... 38932 54512 68614 000 000	CW	(AB)
M12	14-12	2220	6832	Sat	887 887 887 1 1283 98 1283 98 14990 53118 96542 ... 38932 54512 68614 000 000	CW	(AB)
M12	14-12	2240	7732	Sat	887 887 887 1 1283 98 1283 98 14990 53118 96542 ... 38932 54512 68614 000 000	CW	(AB)
M12	17-12	1100	11519	Tue	289 289 289 1 7643 62 7643 62 46440 63422 66156 ... 63175 76540 89413 000 000	CW	(AB)
M12	17-12	1120	12194	Tue	289 289 289 1 7643 62 7643 62 46440 63422 66156 ... 63175 76540 89413 000 000	CW	(AB)
M12	17-12	1140	13407	Tue	289 289 289 1 7643 62 7643 62 46440 63422 66156 ... 63175 76540 89413 000 000	CW	(AB)
M12	18-12	2000	6792	Wed	780 780 780 000	CW	(AB)
M12	18-12	2020	5892	Wed	780 780 780 000	CW	(AB)
M12	19-12	1800	11435	Thu	938 938 838 1 5292 79 5292 79 40215 64044 90254 ... 23449 12537 22049 000 000	CW	(AB)
M12	19-12	1820	10598	Thu	938 938 838 1 5292 79 5292 79 40215 64044 90254 ... 23449 12537 22049 000 000	CW	(AB)
M12	19-12	1840	9327	Thu	938 938 838 1 5292 79 5292 79 40215 64044 90254 ... 23449 12537 22049 000 000	CW	(AB)

<b>M12</b>	20-12	2000	6792	Fri	780 780 780 000	CW	(AB)
<b>M12</b>	20-12	2020	5892	Fri	780 780 780 000	CW	(AB)
<b>M12</b>	20-12	2200	5832	Fri	887 887 887 000	CW	(AB)
<b>M12</b>	20-12	2220	6832	Fri	887 887 887 000	CW	(AB)
<b>M12</b>	21-12	2200	5832	Sat	887 887 887 000	CW	(AB)
<b>M12</b>	21-12	2220	6832	Sat	887 887 887 000	CW	(AB)
<b>M12</b>	24-12	1100	11519	Tue	289 289 289 1 6678 61 6678 61 65937 44930 12483 ... 71299 97781 08718 000 000	CW	(AB)
<b>M12</b>	24-12	1120	12194	Tue	289 289 289 1 6678 61 6678 61 65937 44930 12483 ... 71299 97781 08718 000 000	CW	(AB)
<b>M12</b>	24-12	1140	13407	Tue	289 289 289 1 6678 61 6678 61 65937 44930 12483 ... 71299 97781 08718 000 000	CW	(AB)
<b>M12</b>	25-12	2000	6792	Wed	780 780 780 1 353 98 353 98 33975 06974 ... 61036 25493 83436 000 000	CW	(AB)
<b>M12</b>	25-12	2020	5892	Wed	780 780 780 1 353 98 353 98 33975 06974 ... 61036 25493 83436 000 000	CW	(AB)
<b>M12</b>	25-12	2040	5092	Wed	780 780 780 1 353 98 353 98 33975 06974 ... 61036 25493 83436 000 000	CW	(AB)
<b>M12</b>	26-12	1800	11435	Thu	Active but unreadable	CW	(AB)
<b>M12</b>	26-12	1820	10598	Thu	Active but unreadable	CW	(AB)
<b>M12</b>	26-12	1840	9327	Thu	Active but unreadable	CW	(AB)
<b>M12</b>	27-12	2000	6792	Fri	780 780 780 1 353 98 353 98 33975 06974 ... 61036 25493 83436 000 000	CW	(AB)
<b>M12</b>	27-12	2020	5892	Fri	780 780 780 1 353 98 353 98 33975 06974 ... 61036 25493 83436 000 000	CW	(AB)
<b>M12</b>	27-12	2040	5092	Fri	780 780 780 1 353 98 353 98 33975 06974 ... 61036 25493 83436 000 000	CW	(AB)
<b>M12</b>	27-12	2200	5832	Fri	887 887 887 1 646 83 646 83 34108 49336 74919 ... 47719 91739 78731 000 000	CW	(AB)
<b>M12</b>	27-12	2220	6832	Fri	887 887 887 1 646 83 646 83 34108 49336 74919 ... 47719 91739 78731 000 000	CW	(AB)
<b>M12</b>	27-12	2240	7732	Fri	887 887 887 1 646 83 646 83 34108 49336 74919 ... 47719 91739 78731 000 000	CW	(AB)
<b>M12</b>	28-12	2200	5832	Sat	887 887 887 1 646 83 646 83 34108 49336 74919 ... 47719 91739 78731 000 000	CW	(AB)
<b>M12</b>	28-12	2220	6832	Sat	887 887 887 1 646 83 646 83 34108 49336 74919 ... 47719 91739 78731 000 000	CW	(AB)
<b>M12</b>	28-12	2240	7732	Sat	887 887 887 1 646 83 646 83 34108 49336 74919 ... 47719 91739 78731 000 000	CW	(AB)
<b>M12</b>	31-12	1100	11519	Tue	289 289 289 1 1977 64 1977 64 55738 32760 80811 ... 86865 39397 60936 000 0000	CW	(AB)
<b>M12</b>	31-12	1120	12194	Tue	289 289 289 1 1977 64 1977 64 55738 32760 80811 ... 86865 39397 60936 000 0000	CW	(AB)
<b>M12</b>	31-12	1140	13407	Tue	289 289 289 1 1977 64 1977 64 55738 32760 80811 ... 86865 39397 60936 000 0000	CW	(AB)
<b>M14</b>	2-12	0500	12211	Mon	952 386 386 55 55 = = 16986 22437 00346 ... 97332 01274 44407 = = 386 386 55 55 00000	CW	(Subilo/AB)
<b>M14</b>	2-12	0520	10243	Mon	952 386 386 55 55 = = 16986 22437 00346 ... 97332 01274 44407 = = 386 386 55 55 00000	CW	(Subilo/AB)
<b>M14</b>	3-12	0500	12211	Tue	952 386 386 55 55 = = 16986 22437 00346 ... 97332 01274 44407 = = 386 386 55 55 00000	CW	(Subilo/AB)
<b>M14</b>	3-12	0520	10243	Tue	952 386 386 55 55 = = 16986 22437 00346 ... 97332 01274 44407 = = 386 386 55 55 00000	CW	(Subilo/AB)
<b>M14</b>	4-12	0500	12211	Wed	952 147 147 30 30 = = 37224 03803 81853 ... 71463 88280 62141 = = 147 147 30 30 952 638 638 27 27 = = 42706 99544 57073 ... 56909 11556 58245 = = 638 638 27 27 00000	CW	(Subilo/AB)
<b>M14</b>	4-12	0520	10243	Wed	952 147 147 30 30 = = 37224 03803 81853 ... 71463 88280 62141 = = 147 147 30 30 952 638 638 27 27 = = 42706 99544 57073 ... 56909 11556 58245 = = 638 638 27 27 00000	CW	(Subilo/AB)

<b>M14</b>	5-12	0500	12211	Thu	952 147 147 30 30 = = 37224 03803 81853 ... 71463 88280 62141 = = 147 147 30 30 952 638 638 27 27 = = 42706 99544 57073 ... 56909 11556 58245 = = 638 638 27 27 00000	CW	(Subilo/AB)
<b>M14</b>	5-12	0520	10243	Thu	952 147 147 30 30 = = 37224 03803 81853 ... 71463 88280 62141 = = 147 147 30 30 952 638 638 27 27 = = 42706 99544 57073 ... 56909 11556 58245 = = 638 638 27 27 00000	CW	(Subilo/AB)
<b>M14</b>	6-12	0500	12211	Fri	952 952 952 00000	CW	(Subilo/AB)
<b>M14</b>	6-12	0520	10243	Fri	952 952 952 00000	CW	(Subilo/AB)
<b>M14</b>	9-12	0500	12211	Mon	952 741 741 53 53 = = 67129 09336 20872 ... 03556 88104 01754 = = 741 741 53 53 00000	CW	(Subilo/AB)
<b>M14</b>	9-12	0520	10243	Mon	952 741 741 53 53 = = 67129 09336 20872 ... 03556 88104 01754 = = 741 741 53 53 00000	CW	(Subilo/AB)
<b>M14</b>	10-12	0500	12211	Tue	952 741 741 53 53 = = 67129 09336 20872 ... 03556 88104 01754 = = 741 741 53 53 00000	CW	(Subilo/AB)
<b>M14</b>	10-12	0520	10243	Tue	952 741 741 53 53 = = 67129 09336 20872 ... 03556 88104 01754 = = 741 741 53 53 00000	CW	(Subilo/AB)
<b>M14</b>	11-12	0500	12211	Wed	952 148 148 26 26 = = 05132 53975 03545 ... 31688 17520 47226 = = 148 148 26 26 952 306 306 26 26 = = 64054 55663 84247 ... 32787 35859 89740 = = 306 306 26 26 00000	CW	(Subilo/AB)
<b>M14</b>	11-12	0520	10243	Wed	952 148 148 26 26 = = 05132 53975 03545 ... 31688 17520 47226 = = 148 148 26 26 952 306 306 26 26 = = 64054 55663 84247 ... 32787 35859 89740 = = 306 306 26 26 00000	CW	(Subilo/AB)
<b>M14</b>	12-12	0500	12211	Thu	Fast pips (1m6s)	CW	(Subilo/AB)
<b>M14</b>	12-12	0500	12211	Thu	952 148 148 26 26 = = 05132 53975 03545 ... 31688 17520 47226 = = 148 148 26 26 952 306 306 26 26 = = 64054 55663 84247 ... 32787 35859 89740 = = 306 306 26 26 00000	CW	(Subilo/AB)
<b>M14</b>	12-12	0520	10243	Thu	952 148 148 26 26 = = 05132 53975 03545 ... 31688 17520 47226 = = 148 148 26 26 952 306 306 26 26 = = 64054 55663 84247 ... 32787 35859 89740 = = 306 306 26 26 00000	CW	(Subilo/AB)
<b>M14</b>	13-12	0500	12211	Fri	Unreadable 19 min msg. Inverted Morse	CW	(Subilo/AB)
<b>M14</b>	13-12	0520	10243	Fri	Unreadable 19 min msg. Inverted Morse	CW	(Subilo/AB)
<b>M14</b>	16-12	0500	12211	Mon	No transmission	CW	(Subilo/AB)
<b>M14</b>	16-12	0520	10243	Mon	952 703 703 56 56 = = 95530 88831 ... 46498 87459 95260 = = 703 703 56 56 00000	CW	(Subilo/AB)
<b>M14</b>	16-12	0956	9463	Mon	i.p. 801 (R) 376 376 52 52 = = 54044 66001 29014 ... 89223 68264 98364 = = 736 736 52 52 000	CW	(AB)
<b>M14</b>	16-12	1400	10755	Mon	975 248 248 3T 30 = = 25683 93_76 54384 ... 65500 775_8 39_00 = = 248 248 30 30 00000	CW	(AB)
<b>M14</b>	17-12	0500	12211	Tue	952 703 703 56 56 = = 95530 88831 ... 46498 87459 95260 = = 703 703 56 56 00000	CW	(Subilo/AB)
<b>M14</b>	17-12	0520	10243	Tue	952 (R4min) off	CW	(Subilo/AB)
<b>M14</b>	18-12	0500	12211	Wed	952 731 731 20 20 = = 59903 84727 51896 ... 26044 43835 32250 = = 731 731 20 20 952 846 846 31 31 = = 96309 90792 87214 ... 38590 64529 13370 = = 846 846 31 31 00000	CW	(Subilo/AB)

<b>M14</b>	18-12	0520	10243	Wed	952 731 731 20 20 = = 59903 84727 51896 ... 26044 43835 32250 = = 731 731 20 20 952 846 846 31 31 = = 96309 90792 87214 ... 38590 64529 13370 = = 846 846 31 31 00000	CW	(Subilo/AB)
<b>M14</b>	19-12	0500	12211	Thu	952 846 846 31 31 = = 96309 90792 87214 ... 38590 64529 13370 = = 846 846 31 31 952 731 731 20 20 = = 59903 84727 51896 ... 26044 43835 32250 = = 731 731 20 20 00000	CW	(Subilo/AB)
<b>M14</b>	19-12	0520	10243	Thu	952 846 846 31 31 = = 96309 90792 87214 ... 38590 64529 13370 = = 846 846 31 31 952 731 731 20 20 = = 59903 84727 51896 ... 26044 43835 32250 = = 731 731 20 20 00000	CW	(Subilo/AB)
<b>M14</b>	20-12	0454	12211	Fri	Two series of fast beeps	CW	(Subilo/AB)
<b>M14</b>	20-12	0500	12211	Fri	952 952 952 00000	CW	(Subilo/AB)
<b>M14</b>	20-12	0520	10243	Fri	952 952 952 00000	CW	(Subilo/AB)
<b>M14</b>	23-12	0500	12211	Mon	952 648 648 51 51 = = 05070 24388 52924 ... 89299 58222 37476 = = 648 648 51 51 00000	CW	(Subilo/AB)
<b>M14</b>	23-12	0520	10243	Mon	952 648 648 51 51 = = 05070 24388 52924 ... 89299 58222 37476 = = 648 648 51 51 00000	CW	(Subilo/AB)
<b>M14</b>	24-12	0500	12211	Tue	952 648 648 51 51 = = 05070 24388 52924 ... 89299 58222 37476 = = 648 648 51 51 00000	CW	(Subilo/AB)
<b>M14</b>	24-12	0520	10243	Tue	952 648 648 51 51 = = 05070 24388 52924 ... 89299 58222 37476 = = 648 648 51 51 00000	CW	(Subilo/AB)
<b>M14</b>	25-12	0500	12211	Wed	not monitored	CW	(Subilo/AB)
<b>M14</b>	25-12	0520	10243	Wed	not monitored	CW	(Subilo/AB)
<b>M14</b>	26-12	0450	12211	Thu	Series of fast beeps	CW	(Subilo/AB)
<b>M14</b>	26-12	0500	12211	Thu	952 713 713 20 20 = = 82850 84336 51445 ... 59152 99665 61086 713 713 20 20 952 713 713 20 20 = = 82850 84336 51445 ... 59152 99665 61086 713 713 20 20 (no clo- sing nulls)	CW	(Subilo/AB)
<b>M14</b>	26-12	0520	10243	Thu	952 713 713 20 20 = = 82850 84336 51445 ... 59152 99665 61086 713 713 20 20 952 713 713 20 20 = = 82850 84336 51445 ... 59152 99665 61086 713 713 20 20 (no clo- sing nulls)	CW	(Subilo/AB)
<b>M14</b>	27-12	0500	12211	Fri	952 952 952 00000. Inverted morse	CW	(Subilo/AB)
<b>M14</b>	27-12	0520	10243	Fri	952 952 952 00000. Inverted morse	CW	(Subilo/AB)
<b>M42</b>	2-12	0743	9041	Mon	Russian diplo	MFSK-66	(AB)
<b>M42</b>	2-12	0834	13518	Mon	Russian diplo	MFSK-66	(AB/RO)
<b>M42</b>	2-12	0835	14405	Mon	Russian diplo	MFSK-66	(RO)
<b>M42</b>	5-12	1300	16156	Thu	UAL: MFA Moscow message to UAG: Havana. Header: 11100 70103 38174 05170 04009	FSK CW + FSK 75/500	(AB)
<b>M42</b>	6-12	0931	16216	Fri	Russian diplo	MFSK-66	(AB)
<b>M42</b>	9-12	0941	18643	Mon	Russian diplo	Serdolik v2	(AB)
<b>M42</b>	9-12	1130	14955	Mon	Russian diplo	Serdolik v2 (MFSK+OFDM)	(AB)
<b>M42</b>	9-12	1147	14955	Mon	Russian diplo	Serdolik v2 (MFSK+OFDM)	(AB)
<b>M42</b>	9-12	1208	19142	Mon	Russian diplo	Serdolik v2	(AB)
<b>M42</b>	12-12	1300	16156	Thu	UAL: MFA Moscow message to UAG: Havana. Header: 11100 70103 13697 12175 04009	FSK CW + FSK 75/500	(AB)

M42	13-12	0834	12195	Fri	Russian diplo	MFSK-66	(RO)
M42	13-12	0845	12195	Fri	Russian diplo	MFSK-66	(RO)
M42	13-12	0925	9288	Fri	Russian diplo	MFSK-66	(RO)
M42	20-12	1302	14698	Fri	Russian diplo	MFSK-66	(AB)
M42	23-12	0813	17468	Mon	Russian diplo	Serdolik v2	(RO)
M42	23-12	0817	17468	Mon	Russian diplo	Serdolik v2	(RO)
M42	23-12	0820	17468	Mon	Russian diplo	Serdolik v2	(RO)
M42	23-12	0820	17468	Mon	Russian diplo	Serdolik v2	(RO)
M42	23-12	0823	17468	Mon	Russian diplo	Serdolik v2	(RO)
M42	23-12	0829	14846	Mon	Russian diplo	Serdolik v2	(RO)
M42	23-12	0830	17468	Mon	Russian diplo	Serdolik v2	(RO)
M42	23-12	0839	17466	Mon	Russian diplo	Serdolik v2	(RO)
M42	23-12	0847	17468	Mon	Russian diplo	Serdolik v2	(RO)
M42	26-12	0743	11076	Thu	Russian diplo	MFSK-66	(AB)
M42	26-12	1032	10960	Thu	Russian diplo	Serdolik v2	(AB)
M42	26-12	1300	16156	Thu	UAL: MFA Moscow wkg UAG: Russian embassy Havana. Header: 11100 70103 62547 26185 04009	FSK 100/500	(AB-ATN)
M42	26-12	1300	18726	Thu	UAG: Russian embassy Havana wkg UAL: MFA Moscow. Header: 11100 70103 25417 26187 04003	FSK 100/500	(AB-ATN)
M42	27-12	0735	11156	Fri	Russian diplo. Selcal	Serdolik v2	(AB)
M42	27-12	0737	11158	Fri	Russian diplo	Serdolik v2	(AB/RO)
M42	27-12	0751	11158	Fri	Russian diplo	Serdolik v2	(AB/RO)
M42	27-12	0929	9286	Fri	Russian diplo	MFSK-66	(AB/RO)
M42b	1-12	1534	5469	Sun	CDAP CDAP CDAP DE AIFH AIFH K. Header: 716 10 01 1525 1357=	CW + FSK 50/500	(AB)
M42b	2-12	1517	16250	Mon	KFUJ RTHZLQPCAUJ RTHZLQPP RKFUDQPTHZM QQQQQ OOOOO (repeated)	FSK 50/500	(AB)
M42b	2-12	1534	5469	Mon	CDAP CDAP CDAP DE AIFH AIFH K. Header: 718 100 02 1525 1357=	CW + FSK 50/500	(AB)
M42b	4-12	1534	5469	Wed	CDAP CDAP CDAP DE AIFH AIFH K. Header: 722 100 04 1525 1357=	CW + FSK 50/500	(AB)
M42b	5-12	1535	5469	Thu	CDAP CDAP CDAP DE AIFH AIFH K. Header: 724 100 05 1537 1357=	CW + FSK 50/500	(AB)
M42b	6-12	1534	5469	Fri	CDAP CDAP CDAP DE AIFH AIFH K. Header: 726 100 06 1525 1357=	CW + FSK 50/500	(AB)
M42b	7-12	1534	5469	Sat	CDAP CDAP CDAP DE AIFH AIFH K. Header: 729 100 07 1525 1357=	CW + FSK 50/500	(AB)
M42b	8-12	1534	5469	Sun	CDAP CDAP CDAP DE AIFH AIFH K. Header: 731 100 08 1525 1357=	CW + FSK 50/500	(AB)
M42b	9-12	1534	5469	Mon	CDAP CDAP CDAP DE AIFH AIFH K. Header: 733 100 09 1525 1357=	CW + FSK 50/500	(AB)
M42b	10-12	1534	5469	Tue	CDAP CDAP CDAP DE AIFH AIFH K. Header: 735 100 10 1525 1357=	CW + FSK 50/500	(AB)
M42b	11-12	1534	5469	Wed	CDAP CDAP CDAP DE AIFH AIFH K. Header: 737 100 11 1525 1357=	CW + FSK 50/500	(AB)
M42b	12-12	1535	5469	Thu	CDAP CDAP CDAP DE AIFH AIFH K. Header: 739 100 12 1525 1357=	CW + FSK 50/500	(AB)
M42b	13-12	1534	5469	Fri	CDAP CDAP CDAP DE AIFH AIFH K. Header: 741 100 13 1525 1357=	CW + FSK 50/500	(AB)
M42b	14-12	1534	5469	Sat	CDAP CDAP CDAP DE AIFH AIFH K. Header: 743 100 14 1525 1357=	CW + FSK 50/500	(AB)
M42b	15-12	1534	5469	Sun	CDAP CDAP CDAP DE AIFH AIFH K. Header: 745 100 15 1525 1357=	CW + FSK 50/500	(AB)
M42b	17-12	1534	5469	Tue	CDAP CDAP CDAP DE AIFH AIFH K. Header: 749 100 17 1525 1357=	CW + FSK 50/500	(AB)
M42b	21-12	1534	5469	Sat	CDAP CDAP CDAP DE AIFH AIFH K. QSA3 QSA? K. RPT K then off	CW + FSK 50/500	(AB)
M42b	22-12	1534	5469	Sun	CDAP CDAP CDAP DE AIFH AIFH K. Header: 759 100 22 1529 1357=	CW + FSK 50/500	(AB)
M42b	24-12	1534	5469	Tue	CDAP CDAP CDAP DE AIFH AIFH K. Header: D763 100 24 1525 1357=	CW + FSK 50/500	(AB)

<b>M42b</b>	26-12	0739	12089	Thu	KFUJ RTHZLQPCAUJ RTHZLQPDE KFUF PTHZLQT OOOOOOOOOO (repeated)	FSK 50/500	(AB)
<b>M42b</b>	26-12	0836	14680	Thu	BZLQPCAUJ RTHZLQPCAUJ RVMGWYTH NDISK OOOOOOOOOO (repeated)	FSK 50/500	(AB)
<b>M42b</b>	26-12	1534	5469	Thu	CDAP CDAP CDAP DE AIFH AIFH K. Header: 767 100 26 1525 1357=	CW + FSK 50/500	(AB)
<b>M42b</b>	27-12	1534	5469	Fri	CDAP CDAP CDAP DE AIFH AIFH K. Header: 769 100 27 1525 1357=	CW + FSK 50/500	(AB)
<b>M42b</b>	28-12	1534	5469	Sat	CDAP CDAP CDAP DE AIFH AIFH K	CW + FSK 50/500	(AB)
<b>M42b</b>	29-12	1535	5469	Sun	CDAP CDAP CDAP DE AIFH AIFH K. Header: 773 100 29 1525 1357=	CW + FSK 50/500	(AB)
<b>M42b</b>	30-12	1537	5469	Mon	CDAP CDAP CDAP DE AIFH AIFH K. RPT K. OK DE QLO 30 K	CW	(AB)
<b>M42b</b>	31-12	1535	5469	Tue	CDAP CDAP CDAP DE AIFH AIFH K. RPT K. OK DE QLO 20 K	CW	(AB)
<b>NB</b>	1-12	1750	5782	Sun	Unid station a.k.a. New Buzzer	USB	(AB)
<b>NB</b>	1-12	1750	5950	Sun	Unid station a.k.a. New Buzzer	USB	(AB)
<b>NB</b>	1-12	1750	6930	Sun	Unid station a.k.a. New Buzzer	USB	(AB)
<b>NB</b>	5-12	1940	5782	Thu	Unid station a.k.a. New Buzzer	USB	(AB)
<b>NB</b>	5-12	1940	5950	Thu	Unid station a.k.a. New Buzzer	USB	(AB)
<b>NB</b>	5-12	1940	6930	Thu	Unid station a.k.a. New Buzzer	USB	(AB)
<b>NB</b>	6-12	2010	5782	Fri	Unid station a.k.a. New Buzzer	USB	(AB)
<b>NB</b>	6-12	2010	5950	Fri	Unid station a.k.a. New Buzzer	USB	(AB)
<b>NB</b>	6-12	2010	6930	Fri	Unid station a.k.a. New Buzzer	USB	(AB)
<b>NB</b>	8-12	1920	5782	Sun	Unid station a.k.a. New Buzzer	USB	(AB)
<b>NB</b>	8-12	1920	5950	Sun	Unid station a.k.a. New Buzzer	USB	(AB)
<b>NB</b>	8-12	1920	6930	Sun	Unid station a.k.a. New Buzzer	USB	(AB)
<b>NB</b>	9-12	1705	5782	Mon	Unid station a.k.a. New Buzzer	USB	(AB)
<b>NB</b>	9-12	1705	5950	Mon	Unid station a.k.a. New Buzzer	USB	(AB)
<b>NB</b>	9-12	1705	6930	Mon	Unid station a.k.a. New Buzzer	USB	(AB)
<b>NB</b>	10-12	1846	5782	Tue	Unid station a.k.a. New Buzzer	USB	(AB)
<b>NB</b>	10-12	1846	5950	Tue	Unid station a.k.a. New Buzzer	USB	(AB)
<b>NB</b>	10-12	1846	6930	Tue	Unid station a.k.a. New Buzzer	USB	(AB)
<b>NB</b>	12-12	1953	5782	Thu	Unid station a.k.a. New Buzzer	USB	(AB)
<b>NB</b>	12-12	1953	5950	Thu	Unid station a.k.a. New Buzzer	USB	(AB)
<b>NB</b>	12-12	1953	6930	Thu	Unid station a.k.a. New Buzzer	USB	(AB)
<b>NB</b>	17-12	1535	8365	Tue	Unid station a.k.a. New Buzzer	USB	(AB)
<b>NB</b>	18-12	2128	5782	Wed	Unid station a.k.a. New Buzzer	USB	(AB)
<b>NB</b>	18-12	2128	5950	Wed	Unid station a.k.a. New Buzzer	USB	(AB)
<b>NB</b>	18-12	2128	6930	Wed	Unid station a.k.a. New Buzzer	USB	(AB)
<b>NB</b>	19-12	1946	5782	Thu	Unid station a.k.a. New Buzzer	USB	(AB)
<b>NB</b>	19-12	1946	5950	Thu	Unid station a.k.a. New Buzzer	USB	(AB)
<b>NB</b>	19-12	1946	6930	Thu	Unid station a.k.a. New Buzzer	USB	(AB)
<b>NB</b>	20-12	2005	5782	Fri	Unid station a.k.a. New Buzzer	USB	(AB)
<b>NB</b>	20-12	2005	5950	Fri	Unid station a.k.a. New Buzzer	USB	(AB)
<b>NB</b>	20-12	2005	6930	Fri	Unid station a.k.a. New Buzzer	USB	(AB)
<b>NB</b>	22-12	2000	5782	Sun	Unid station a.k.a. New Buzzer	USB	(AB)
<b>NB</b>	22-12	2000	5950	Sun	Unid station a.k.a. New Buzzer	USB	(AB)
<b>NB</b>	22-12	2000	6930	Sun	Unid station a.k.a. New Buzzer	USB	(AB)



<b>NB</b>	25-12	2047	5782	Wed	Unid station a.k.a. New Buzzer	USB	(AB)
<b>NB</b>	25-12	2047	5950	Wed	Unid station a.k.a. New Buzzer	USB	(AB)
<b>NB</b>	25-12	2047	6930	Wed	Unid station a.k.a. New Buzzer	USB	(AB)
<b>NB</b>	27-12	1911	5782	Fri	Unid station a.k.a. New Buzzer	USB	(AB)
<b>NB</b>	27-12	1911	5950	Fri	Unid station a.k.a. New Buzzer	USB	(AB)
<b>NB</b>	27-12	1911	6930	Fri	Unid station a.k.a. New Buzzer	USB	(AB)
<b>NB</b>	29-12	1915	5782	Sun	Unid station a.k.a. New Buzzer	USB	(AB)
<b>NB</b>	29-12	1915	5950	Sun	Unid station a.k.a. New Buzzer	USB	(AB)
<b>NB</b>	29-12	1915	6930	Sun	Unid station a.k.a. New Buzzer	USB	(AB)
<b>P03</b>	1-12	0530	5371	Sun	Polish intel.	PSK	(AB)
<b>P03</b>	1-12	0535	5371	Sun	Polish intel.	PSK	(AB)
<b>P03</b>	1-12	1020	5779	Sun	Polish intel.	PSK	(AB)
<b>P03</b>	1-12	1025	5779	Sun	Polish intel.	PSK	(AB)
<b>P03</b>	1-12	1100	6433	Sun	Polish intel.	PSK	(AB)
<b>P03</b>	1-12	1105	6433	Sun	Polish intel.	PSK	(AB)
<b>P03</b>	1-12	1220	23031	Sun	Polish intel.	PSK	(AB)
<b>P03</b>	1-12	1225	23031	Sun	Polish intel.	PSK	(AB)
<b>P03</b>	1-12	1245	7469	Sun	Polish intel.	PSK	(AB)
<b>P03</b>	1-12	1250	7469	Sun	Polish intel.	PSK	(AB)
<b>P03</b>	1-12	1515	17535	Sun	Polish intel.	PSK	(AB)
<b>P03</b>	1-12	1520	17535	Sun	Polish intel.	PSK	(AB)
<b>P03</b>	1-12	1725	10429	Sun	Polish intel.	USB	(AB)
<b>P03</b>	1-12	1730	10429	Sun	Polish intel.	USB	(AB)
<b>P03</b>	2-12	1220	23031	Mon	Polish intel.	PSK	(AB)
<b>P03</b>	2-12	1225	23031	Mon	Polish intel.	PSK	(AB)
<b>P03</b>	3-12	0430	6252	Tue	Polish intel.	PSK	(AB)
<b>P03</b>	3-12	0435	6252	Tue	Polish intel.	PSK	(AB)
<b>P03</b>	3-12	1725	10429	Tue	Polish intel.	PSK	(AB)
<b>P03</b>	3-12	1730	10429	Tue	Polish intel.	PSK	(AB)
<b>P03</b>	5-12	0430	6252	Thu	Polish intel.	PSK	(AB)
<b>P03</b>	5-12	0435	6252	Thu	Polish intel.	PSK	(AB)
<b>P03</b>	5-12	1950	5779	Thu	Polish intel.	PSK	(AB)
<b>P03</b>	5-12	1955	5779	Thu	Polish intel.	PSK	(AB)
<b>P03</b>	6-12	0530	5371	Fri	Polish intel.	PSK	(AB)
<b>P03</b>	6-12	0535	5371	Fri	Polish intel.	PSK	(AB)
<b>P03</b>	6-12	1100	6433	Fri	Polish intel.	PSK	(AB)
<b>P03</b>	6-12	1105	6433	Fri	Polish intel.	PSK	(AB)
<b>P03</b>	6-12	1515	17535	Fri	Polish intel.	PSK	(AB)
<b>P03</b>	6-12	1520	17535	Fri	Polish intel.	PSK	(AB)
<b>P03</b>	7-12	1020	5779	Sat	Polish intel.	PSK	(AB)
<b>P03</b>	7-12	1025	5779	Sat	Polish intel.	PSK	(AB)
<b>P03</b>	7-12	1245	7469	Sat	Polish intel.	PSK	(AB)

P03	7-12	1250	7469	Sat	Polish intel.	PSK	(AB)
P03	7-12	1310	6524	Sat	Polish intel.	PSK	(AB)
P03	7-12	1315	6524	Sat	Polish intel.	PSK	(AB)
P03	8-12	0530	5371	Sun	Polish intel.	PSK	(AB)
P03	8-12	0535	5371	Sun	Polish intel.	PSK	(AB)
P03	8-12	1020	5779	Sun	Polish intel.	PSK	(AB)
P03	8-12	1025	5779	Sun	Polish intel.	PSK	(AB)
P03	8-12	1100	6433	Sun	Polish intel.	PSK	(AB)
P03	8-12	1105	6433	Sun	Polish intel.	PSK	(AB)
P03	8-12	1220	23031	Sun	Polish intel.	PSK	(AB)
P03	8-12	1225	23031	Sun	Polish intel.	PSK	(AB)
P03	8-12	1245	7469	Sun	Polish intel.	PSK	(AB)
P03	8-12	1250	7469	Sun	Polish intel.	PSK	(AB)
P03	8-12	1515	17535	Sun	Polish intel.	PSK	(AB)
P03	8-12	1520	17535	Sun	Polish intel.	PSK	(AB)
P03	8-12	1725	10429	Sun	Polish intel.	USB	(AB)
P03	8-12	1730	10429	Sun	Polish intel.	USB	(AB)
P03	8-12	1950	5779	Sun	Polish intel.	PSK	(AB)
P03	8-12	1955	5779	Sun	Polish intel.	PSK	(AB)
P03	10-12	0430	6252	Tue	Polish intel.	PSK	(AB)
P03	10-12	0435	6252	Tue	Polish intel.	PSK	(AB)
P03	10-12	1725	10429	Tue	Polish intel.	PSK	(AB-POL)
P03	10-12	1730	10429	Tue	Polish intel.	PSK	(AB-POL)
P03	11-12	1310	6524	Wed	Polish intel.	PSK	(AB)
P03	11-12	1315	6524	Wed	Polish intel.	PSK	(AB)
P03	12-12	0430	6252	Thu	Polish intel.	PSK	(AB)
P03	12-12	0435	6252	Thu	Polish intel.	PSK	(AB)
P03	12-12	1950	5779	Thu	Polish intel.	PSK	(AB)
P03	12-12	1955	5779	Thu	Polish intel.	PSK	(AB)
P03	13-12	0530	5371	Fri	Polish intel.	PSK	(AB)
P03	13-12	0535	5371	Fri	Polish intel.	PSK	(AB)
P03	13-12	1100	6433	Fri	Polish intel.	PSK	(AB)
P03	13-12	1105	6433	Fri	Polish intel.	PSK	(AB)
P03	13-12	1515	17535	Fri	Polish intel.	PSK	(AB)
P03	13-12	1520	17535	Fri	Polish intel.	PSK	(AB)
P03	14-12	1020	5779	Sat	Polish intel.	PSK	(AB)
P03	14-12	1025	5779	Sat	Polish intel.	PSK	(AB)
P03	14-12	1245	7469	Sat	Polish intel.	PSK	(AB)
P03	14-12	1250	7469	Sat	Polish intel.	PSK	(AB)
P03	14-12	1310	6524	Sat	Polish intel.	PSK	(AB)
P03	14-12	1315	6524	Sat	Polish intel.	PSK	(AB)
P03	15-12	1020	5779	Sun	Polish intel.	PSK	(AB)

P03	15-12	1025	5779	Sun	Polish intel.	PSK	(AB)
P03	15-12	1100	6433	Sun	Polish intel.	PSK	(AB)
P03	15-12	1105	6433	Sun	Polish intel.	PSK	(AB)
P03	15-12	1220	23031	Sun	Polish intel.	PSK	(AB)
P03	15-12	1225	23031	Sun	Polish intel.	PSK	(AB)
P03	15-12	1245	7469	Sun	Polish intel.	PSK	(AB)
P03	15-12	1250	7469	Sun	Polish intel.	PSK	(AB)
P03	15-12	1515	17535	Sun	Polish intel.	PSK	(AB)
P03	15-12	1520	17535	Sun	Polish intel.	PSK	(AB)
P03	16-12	1220	23031	Mon	Polish intel.	PSK	(AB)
P03	16-12	1225	23031	Mon	Polish intel.	PSK	(AB)
P03	17-12	0430	6252	Tue	Polish intel.	PSK	(AB)
P03	17-12	0435	6252	Tue	Polish intel.	PSK	(AB)
P03	17-12	1725	10429	Tue	Polish intel.	PSK	(AB-POL)
P03	17-12	1730	10429	Tue	Polish intel.	PSK	(AB-POL)
P03	18-12	1310	6524	Wed	Polish intel.	PSK	(AB)
P03	18-12	1315	6524	Wed	Polish intel.	PSK	(AB)
P03	19-12	0430	6252	Thu	Polish intel.	PSK	(AB)
P03	19-12	0435	6252	Thu	Polish intel.	PSK	(AB)
P03	19-12	1950	5779	Thu	Polish intel.	PSK	(AB)
P03	19-12	1955	5779	Thu	Polish intel.	PSK	(AB)
P03	20-12	0530	5371	Fri	Polish intel.	PSK	(AB)
P03	20-12	0535	5371	Fri	Polish intel.	PSK	(AB)
P03	20-12	1100	6433	Fri	Polish intel.	PSK	(AB)
P03	20-12	1105	6433	Fri	Polish intel.	PSK	(AB)
P03	20-12	1515	17535	Fri	Polish intel.	PSK	(AB)
P03	20-12	1520	17535	Fri	Polish intel.	PSK	(AB)
P03	21-12	1020	5779	Sat	Polish intel.	PSK	(AB)
P03	21-12	1025	5779	Sat	Polish intel.	PSK	(AB)
P03	21-12	1245	7469	Sat	Polish intel.	PSK	(AB)
P03	21-12	1250	7469	Sat	Polish intel.	PSK	(AB)
P03	21-12	1310	6524	Sat	Polish intel.	PSK	(AB)
P03	21-12	1315	6524	Sat	Polish intel.	PSK	(AB)
P03	22-12	0530	5371	Sun	Polish intel.	PSK	(AB)
P03	22-12	0535	5371	Sun	Polish intel.	PSK	(AB)
P03	22-12	1100	6433	Sun	Polish intel.	PSK	(AB)
P03	22-12	1105	6433	Sun	Polish intel.	PSK	(AB)
P03	22-12	1220	23031	Sun	Polish intel.	PSK	(AB)
P03	22-12	1225	23031	Sun	Polish intel.	PSK	(AB)
P03	22-12	1245	7469	Sun	Polish intel.	PSK	(AB)
P03	22-12	1250	7469	Sun	Polish intel.	PSK	(AB)
P03	22-12	1515	17535	Sun	Polish intel.	PSK	(AB)

P03	22-12	1520	17535	Sun	Polish intel.	PSK	(AB)
P03	22-12	1950	5779	Sun	Polish intel.	PSK	(AB)
P03	22-12	1955	5779	Sun	Polish intel.	PSK	(AB)
P03	23-12	1220	23031	Mon	Polish intel.	PSK	(AB)
P03	23-12	1225	23031	Mon	Polish intel.	PSK	(AB)
P03	24-12	0430	6252	Tue	Polish intel.	PSK	(AB)
P03	24-12	0435	6252	Tue	Polish intel.	PSK	(AB)
P03	24-12	1725	10429	Tue	Polish intel.	PSK	(AB-POL)
P03	24-12	1730	10429	Tue	Polish intel.	PSK	(AB-POL)
P03	25-12	1310	6524	Wed	Polish intel.	PSK	(AB)
P03	25-12	1315	6524	Wed	Polish intel.	PSK	(AB)
P03	26-12	0430	6252	Thu	Polish intel.	PSK	(AB)
P03	26-12	0435	6252	Thu	Polish intel.	PSK	(AB)
P03	26-12	1950	5779	Thu	Polish intel.	PSK	(AB)
P03	26-12	1955	5779	Thu	Polish intel.	PSK	(AB)
P03	27-12	1100	6433	Fri	Polish intel.	PSK	(AB)
P03	27-12	1105	6433	Fri	Polish intel.	PSK	(AB)
P03	27-12	1515	17535	Fri	Polish intel.	PSK	(AB)
P03	27-12	1520	17535	Fri	Polish intel.	PSK	(AB)
P03	28-12	1020	5779	Sat	Polish intel.	PSK	(AB)
P03	28-12	1025	5779	Sat	Polish intel.	PSK	(AB)
P03	28-12	1245	7469	Sat	Polish intel.	PSK	(AB)
P03	28-12	1250	7469	Sat	Polish intel.	PSK	(AB)
P03	28-12	1310	6524	Sat	Polish intel.	PSK	(AB)
P03	28-12	1315	6524	Sat	Polish intel.	PSK	(AB)
P03	29-12	0530	5371	Sun	Polish intel.	PSK	(AB)
P03	29-12	0535	5371	Sun	Polish intel.	PSK	(AB)
P03	29-12	1020	5779	Sun	Polish intel.	PSK	(AB)
P03	29-12	1025	5779	Sun	Polish intel.	PSK	(AB)
P03	29-12	1100	6433	Sun	Polish intel.	PSK	(AB)
P03	29-12	1105	6433	Sun	Polish intel.	PSK	(AB)
P03	29-12	1220	23031	Sun	Polish intel.	PSK	(AB)
P03	29-12	1225	23031	Sun	Polish intel.	PSK	(AB)
P03	29-12	1245	7469	Sun	Polish intel.	PSK	(AB)
P03	29-12	1250	7469	Sun	Polish intel.	PSK	(AB)
P03	29-12	1515	17535	Sun	Polish intel.	PSK	(AB)
P03	29-12	1520	17535	Sun	Polish intel.	PSK	(AB)
P03	29-12	1725	10429	Sun	Polish intel.	PSK	(AB-POL)
P03	29-12	1730	10429	Sun	Polish intel.	PSK	(AB-POL)
P03	29-12	1950	5779	Sun	Polish intel.	PSK	(AB)
P03	29-12	1955	5779	Sun	Polish intel.	PSK	(AB)
P03	31-12	0430	6252	Tue	Polish intel.	PSK	(AB)

<b>P03</b>	31-12	0435	6252	Tue	Polish intel.	PSK	(AB)
<b>P03</b>	31-12	1725	10429	Tue	Polish intel.	PSK	(AB-POL)
<b>P03</b>	31-12	1730	10429	Tue	Polish intel.	PSK	(AB-POL)
<b>P03g</b>	3-12	0635	25060	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
<b>P03g</b>	3-12	0640	25060	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
<b>P03g</b>	3-12	1100	12089	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
<b>P03g</b>	3-12	1105	12089	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
<b>P03g</b>	4-12	1100	12089	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
<b>P03g</b>	4-12	1105	12089	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
<b>P03g</b>	4-12	1315	13046	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
<b>P03g</b>	4-12	1320	13046	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
<b>P03g</b>	5-12	0635	25060	Thu	Polish intel.	BPSK 50Bd/464bp	(AB)
<b>P03g</b>	5-12	0640	25060	Thu	Polish intel.	BPSK 50Bd/464bp	(AB)
<b>P03g</b>	6-12	1315	13046	Fri	Polish intel.	BPSK 50Bd/464bp	(AB)
<b>P03g</b>	6-12	1320	13046	Fri	Polish intel.	BPSK 50Bd/464bp	(AB)
<b>P03g</b>	10-12	0635	25060	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
<b>P03g</b>	10-12	0640	25060	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
<b>P03g</b>	10-12	1100	12089	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
<b>P03g</b>	10-12	1105	12089	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
<b>P03g</b>	11-12	1100	12089	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
<b>P03g</b>	11-12	1105	12089	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
<b>P03g</b>	11-12	1315	13046	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
<b>P03g</b>	11-12	1320	13046	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
<b>P03g</b>	12-12	0635	25060	Thu	Polish intel.	BPSK 50Bd/464bp	(AB)
<b>P03g</b>	12-12	0640	25060	Thu	Polish intel.	BPSK 50Bd/464bp	(AB)
<b>P03g</b>	13-12	1315	13046	Fri	Polish intel.	BPSK 50Bd/464bp	(AB)
<b>P03g</b>	13-12	1320	13046	Fri	Polish intel.	BPSK 50Bd/464bp	(AB)
<b>P03g</b>	17-12	1100	12089	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
<b>P03g</b>	17-12	1105	12089	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
<b>P03g</b>	18-12	1100	12089	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
<b>P03g</b>	18-12	1105	12089	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
<b>P03g</b>	18-12	1315	13046	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
<b>P03g</b>	18-12	1320	13046	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
<b>P03g</b>	19-12	0635	25060	Thu	Polish intel.	BPSK 50Bd/464bp	(AB)
<b>P03g</b>	19-12	0640	25060	Thu	Polish intel.	BPSK 50Bd/464bp	(AB)
<b>P03g</b>	20-12	1315	13046	Fri	Polish intel.	BPSK 50Bd/464bp	(AB)
<b>P03g</b>	20-12	1320	13046	Fri	Polish intel.	BPSK 50Bd/464bp	(AB)
<b>P03g</b>	24-12	0635	25060	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
<b>P03g</b>	24-12	0640	25060	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
<b>P03g</b>	24-12	1100	12089	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
<b>P03g</b>	24-12	1105	12089	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
<b>P03g</b>	25-12	1100	12089	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)

P03g	25-12	1105	12089	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	25-12	1315	13046	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	25-12	1320	13046	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	26-12	0635	25060	Thu	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	26-12	0640	25060	Thu	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	27-12	1315	13046	Fri	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	27-12	1320	13046	Fri	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	31-12	1100	12089	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	31-12	1105	12089	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03i	3-12	1800	6480	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	3-12	1805	6480	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	5-12	1800	6480	Thu	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	5-12	1805	6480	Thu	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	6-12	1500	8800	Fri	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	6-12	1505	8800	Fri	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	10-12	1500	8800	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	10-12	1505	8800	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	10-12	1800	6480	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	10-12	1805	6480	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	12-12	1800	6480	Thu	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	12-12	1805	6480	Thu	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	13-12	1500	8800	Fri	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	13-12	1505	8800	Fri	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	17-12	1500	8800	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	17-12	1505	8800	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	17-12	1800	6480	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	17-12	1805	6480	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	19-12	1800	6480	Thu	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	19-12	1805	6480	Thu	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	20-12	1500	8800	Fri	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	20-12	1505	8800	Fri	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	24-12	1500	8800	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	24-12	1505	8800	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	24-12	1800	6480	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	24-12	1805	6480	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	26-12	1800	6480	Thu	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	26-12	1805	6480	Thu	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	27-12	1500	8800	Fri	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	27-12	1505	8800	Fri	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	31-12	1500	8800	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	31-12	1505	8800	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	31-12	1800	6480	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)

P03i	31-12	1805	6480	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03j	2-12	1830	6906	Mon	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	2-12	1835	6906	Mon	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	9-12	1830	6906	Mon	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	9-12	1835	6906	Mon	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	16-12	1830	6906	Mon	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	16-12	1835	6906	Mon	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	23-12	1830	6906	Mon	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	23-12	1835	6906	Mon	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	30-12	1830	6906	Mon	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	30-12	1835	6906	Mon	Polish intel.	QPSK 100Bd/504bp	(AB)
P03k	1-12	0630	6252	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	1-12	0635	6252	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	3-12	1230	18168	Tue	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	3-12	1235	18168	Tue	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	7-12	0630	6252	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	7-12	0635	6252	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	7-12	1230	18168	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	7-12	1235	18168	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	7-12	1730	7504	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	7-12	1735	7504	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	8-12	0630	6252	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	8-12	0635	6252	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	10-12	1230	18168	Tue	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	10-12	1235	18168	Tue	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	11-12	1730	7504	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	11-12	1735	7504	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	14-12	0630	6252	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	14-12	0635	6252	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	14-12	1230	18168	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	14-12	1235	18168	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	18-12	1730	7504	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	18-12	1735	7504	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	21-12	0630	6252	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	21-12	0635	6252	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	21-12	1230	18168	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	21-12	1235	18168	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	21-12	1730	7504	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	21-12	1735	7504	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	22-12	0630	6252	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	22-12	0635	6252	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	24-12	1230	18168	Tue	Polish intel.	BPSK 100Bd/480bp	(AB)

P03k	24-12	1235	18168	Tue	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	25-12	1730	7504	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	25-12	1735	7504	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	28-12	0630	6252	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	28-12	0635	6252	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	28-12	1230	18168	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	28-12	1235	18168	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	28-12	1730	7504	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	28-12	1735	7504	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	29-12	0630	6252	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	29-12	0635	6252	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	31-12	1230	18168	Tue	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	31-12	1235	18168	Tue	Polish intel.	BPSK 100Bd/480bp	(AB)
P03I	2-12	1200	7504	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	2-12	1205	7504	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	3-12	0800	14656	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	3-12	0805	14656	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	4-12	0800	14656	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	4-12	0805	14656	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	4-12	1345	6940	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	4-12	1350	6940	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	5-12	0725	9052	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	5-12	0730	9052	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	5-12	1200	7504	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	5-12	1205	7504	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	6-12	1345	6940	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	6-12	1350	6940	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	9-12	1200	7504	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	9-12	1205	7504	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	10-12	0725	9052	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	10-12	0730	9052	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	10-12	0800	14656	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	10-12	0805	14656	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	11-12	0800	14656	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	11-12	0805	14656	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	11-12	1345	6940	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	11-12	1350	6940	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	12-12	0725	9052	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	12-12	0730	9052	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	12-12	1200	7504	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	12-12	1205	7504	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	13-12	1345	6940	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)



P03I	13-12	1350	6940	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	16-12	1200	7504	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	16-12	1205	7504	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	17-12	0725	9052	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	17-12	0730	9052	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	18-12	0800	14656	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	18-12	0805	14656	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	18-12	1345	6940	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	18-12	1350	6940	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	19-12	0725	9052	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	19-12	0730	9052	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	19-12	1200	7504	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	19-12	1205	7504	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	20-12	1345	6940	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	20-12	1350	6940	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	23-12	1200	7504	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	23-12	1205	7504	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	24-12	0725	9052	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	24-12	0730	9052	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	24-12	0800	14656	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	24-12	0805	14656	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	25-12	0800	14656	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	25-12	0805	14656	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	25-12	1345	6940	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	25-12	1350	6940	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	26-12	0725	9052	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	26-12	0730	9052	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	26-12	1200	7504	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	26-12	1205	7504	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	27-12	1345	6940	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	27-12	1350	6940	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	30-12	1200	7504	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	30-12	1205	7504	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	31-12	0725	9052	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	31-12	0730	9052	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	31-12	0800	14656	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	31-12	0805	14656	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P07	1-12	1500	6986	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	1-12	1510	6774	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	1-12	1520	5853	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	1-12	1530	5336	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	1-12	1540	5082	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)



P07	25-12	1550	4609	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	29-12	1500	6986	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	29-12	1510	6774	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	29-12	1520	5853	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	29-12	1530	5336	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	29-12	1540	5082	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	29-12	1550	4609	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
Q26	12-12	1406	12949	Thu	5JLY 5JLY 5JLY DE V257 V257 V257 Header: 2352 91 24 1211 2200	4+4 QPSK 75/1000 LSB	(EW)
Q26	18-12	1106	14843	Wed	I53F I53F I53F DE UUG3 UUG3 UUG3 XYXYXYXYXY QSL 1835 BOZ NIL SK	4+4 QPSK 75/1000 LSB	(EW)
Q26	28-12	0431	19593	Sat	XYXYXYXYXY HR MSG GA PSE NOTE CY TV9=05=1230=1842037=40256518=022=052 QSL? QSL? QSL? QSL? /	4+4 QPSK 75/1000 LSB	(EW)
S06	2-12	0400	11616	Mon	480 125 54 51557 84422 62112 ... 81362 11409 45119 125 54 00000	USB	(Subilo)
S06	2-12	0420	9322	Mon	480 125 54 51557 84422 62112 ... 81362 11409 45119 125 54 00000	USB	(Subilo)
S06	3-12	0400	11616	Tue	480 125 54 51557 84422 62112 ... 81362 11409 45119 125 54 00000	USB	(Subilo)
S06	3-12	0420	9322	Tue	480 125 54 51557 84422 62112 ... 81362 11409 45119 125 54 00000	USB	(Subilo)
S06	4-12	0400	11616	Wed	480 125 54 51557 84422 62112 ... 81362 11409 45119 125 54 00000	USB	(Subilo)
S06	4-12	0420	9322	Wed	480 615 27 86390 36128 99821 ... 66620 45033 55974 615 27 480 125 26 90786 65621 37200 ... 36033 00010 38175 125 26 00000	USB	(Subilo)
S06	5-12	0400	11616	Thu	480 615 27 86390 36128 99821 ... 66620 45033 55974 615 27 480 125 26 90786 65621 37200 ... 36033 00010 38175 125 26 00000	USB	(Subilo)
S06	5-12	0420	9322	Thu	480 615 27 86390 36128 99821 ... 66620 45033 55974 615 27 480 125 26 90786 65621 37200 ... 36033 00010 38175 125 26 00000	USB	(Subilo)
S06	6-12	0400	11616	Fri	480 480 480 00000	USB	(Subilo)
S06	6-12	0420	9322	Fri	480 480 480 00000	USB	(Subilo)
S06	6-12	1900	7923	Fri	842 842 842 00000	USB	(AB/HFD)
S06	6-12	2000	5943	Fri	842 842 842 00000	USB	(AB/HFD)
S06	9-12	0400	11616	Mon	480 729 56 25485 39224 92313 ... 35925 47403 16048 729 56 00000	USB	(Subilo)
S06	9-12	0420	9322	Mon	480 729 56 25485 39224 92313 ... 35925 47403 16048 729 56 00000	USB	(Subilo)
S06	10-12	0400	11616	Tue	480 729 56 25485 39224 92313 ... 35925 47403 16048 729 56 00000	USB	(Subilo)
S06	10-12	0420	9322	Tue	480 729 56 25485 39224 92313 ... 35925 47403 16048 729 56 00000	USB	(Subilo/Lac)
S06	11-12	0400	11616	Wed	480 136 26 25007 17171 84068 ... 30619 47758 75569 136 26 480 592 26 45995 68997 13195 ... 28679 76069 43844 592 26 00000	USB	(Subilo/Lac)
S06	11-12	0420	9322	Wed	480 136 26 25007 17171 84068 ... 30619 47758 75569 136 26 480 592 26 45995 68997 13195 ... 28679 76069 43844 592 26 00000	USB	(Subilo)
S06	12-12	0400	11616	Thu	480 136 26 25007 17171 84068 ... 30619 47758 75569 136 26 480 592 26 45995 68997 13195 ... 28679 76069 43844 592 26 00000	USB	(Subilo)
S06	12-12	0420	9322	Thu	480 136 26 25007 17171 84068 ... 30619 47758 75569 136 26 480 592 26 45995 68997 13195 ... 28679 76069 43844 592 26 00000	USB	(Subilo)
S06	13-12	0400	11616	Fri	480 480 480 00000	USB	(Subilo)
S06	13-12	0420	9322	Fri	480 480 480 00000	USB	(Subilo)
S06	16-12	0400	11616	Mon	480 371 56 67359 48425 64116 ... 90302 61434 16154 371 56 00000	USB	(Subilo)
S06	16-12	0420	9322	Mon	480 371 56 67359 48425 64116 ... 90302 61434 16154 371 56 00000	USB	(Subilo)

S06	17-12	0400	11616	Tue	480 371 56 67359 48425 64116 ... 90302 61434 16154 371 56 00000	USB	(Subilo)
S06	17-12	0420	9322	Tue	480 371 56 67359 48425 64116 ... 90302 61434 16154 371 56 00000	USB	(Subilo)
S06	18-12	0400	11616	Wed	480 296 25 62660 81521 71480 ... 87020 39471 55114 296 25 480 713 25 19953 98824 09238 ... 84598 26845 95992 65412 26456 04064 92348 51520 713 25 00000	USB	(Subilo)
S06	18-12	0420	9322	Wed	480 296 25 62660 81521 71480 ... 87020 39471 55114 296 25 480 713 25 19953 98824 09238 ... 84598 26845 95992 65412 26456 04064 92348 51520 713 25 00000	USB	(Subilo)
S06	18-12	0930	11073	Wed	480 569 41 40936 75671 20613 ... 98054 84592 13913569 41 00000	USB	(PY)
S06	18-12	1030	10212	Wed	480 569 41 40936 75671 20613 ... 98054 84592 13913569 41 00000	USB	(PY)
S06	19-12	0400	11616	Thu	480 296 25 62660 81521 71480 ... 87020 39471 55114 296 25 480 713 25 19953 98824 09238 ... 84598 26845 95992 65412 26456 04064 92348 51520 713 25 00000	USB	(Subilo)
S06	19-12	0420	9322	Thu	480 296 25 62660 81521 71480 ... 87020 39471 55114 296 25 480 713 25 19953 98824 09238 ... 84598 26845 95992 65412 26456 04064 92348 51520 713 25 00000	USB	(Subilo)
S06	20-12	0400	11616	Fri	480 480 480 00000	USB	(Subilo)
S06	20-12	0420	9322	Fri	480 480 480 00000	USB	(Subilo)
S06	20-12	1900	7923	Fri	842 842 842 00000	USB	(AB-POL)
S06	20-12	2000	5943	Fri	842 842 842 00000	USB	(AB)
S06	21-12	1600	9075	Sat	480 371 42 93215 40636 94265 ... 83756 38505 05049 371 42 00000	USB	(PY/AVX)
S06	21-12	1630	6792	Sat	480 371 42 93215 40636 94265 ... 83756 38505 05049 371 42 00000	USB	(PY/AVX)
S06	22-12	0730	11487	Sun	480 371 42 93215 40636 94265 ... 83756 38505 05049 371 42 00000	USB	(PY/AVX)
S06	22-12	0800	9371	Sun	480 480 480 00003 93215 40636 94265 ... 83756 38505 05049 371 42 00000	USB	(PY/AVX)
S06	23-12	0400	11616	Mon	480 659 52 22891 62190 83278 ... 25862 77661 76867 25228 10155 659 52 00000	USB	(Subilo)
S06	23-12	0420	9322	Mon	480 659 52 22891 62190 83278 ... 25862 77661 76867 25228 10155 659 52 00000	USB	(Subilo)
S06	24-12	0400	11616	Tue	480 659 52 22891 62190 83278 ... 25862 77661 76867 25228 10155 659 52 00000	USB	(Subilo)
S06	24-12	0420	9322	Tue	480 659 52 22891 62190 83278 ... 25862 77661 76867 25228 10155 659 52 00000	USB	(Subilo)
S06	25-12	0400	11616	Wed	480 217 31 07707 43297 46280 ... 12530 62267 64344 217 31 480 356 27 98763 47045 23408 ... 21073 22044 45534 356 27 00000	USB	(Subilo)
S06	25-12	0420	9322	Wed	480 217 31 07707 43297 46280 ... 12530 62267 64344 217 31 480 356 27 98763 47045 23408 ... 21073 22044 45534 356 27 00000	USB	(Subilo)
S06	25-12	0930	11073	Wed	480 256 48 04047 08728 05267 ... 74517 34528 52873 256 48 00000	USB	(AB/HFD/Lac)
S06	25-12	1030	10212	Wed	480 256 48 04047 08728 05267 ... 74517 34528 52873 256 48 00000	USB	(AB/HFD)
S06	26-12	0400	11616	Thu	480 217 31 07707 43297 46280 ... 12530 62267 64344 217 31 480 356 27 98763 47045 23408 ... 21073 22044 45534 356 27 00000	USB	(Subilo)
S06	26-12	0420	9322	Thu	480 217 31 07707 43297 46280 ... 12530 62267 64344 217 31 480 356 27 98763 47045 23408 ... 21073 22044 45534 356 27 00000	USB	(Subilo)
S06	27-12	0400	11616	Fri	480 480 480 00000	USB	(Subilo)
S06	27-12	0420	9322	Fri	480 480 480 00000	USB	(Subilo)
S11a	2-12	0700	9050	Mon	476/00 Konets	USB	(AB/Lac)
S11a	2-12	0915	6252	Mon	485/00 Konets	USB	(AB)
S11a	3-12	0445	11559	Tue	794/00 Konets	USB	(TM)
S11a	3-12	1400	10448	Tue	426/00 Konets	USB	(AB/Lac)
S11a	4-12	0725	23486	Wed	382/35 Vnimanaye 98974 99390 04019 ... 83967 86158 66796 Vnimanaye (msg rptd) Konets	USB	(AB)

<b>S11a</b>	4-12	1850	11486	Wed	285/00 Konets	USB	(AB)
<b>S11a</b>	5-12	0700	9050	Thu	477/00 Konets	USB	(AB)
<b>S11a</b>	6-12	0725	23486	Fri	382/35 Vnimanije 98974 99390 04019 ... 83967 86158 66796 Vnimanije (msg rptd) Konets	USB	(AB)
<b>S11a</b>	6-12	0915	6252	Fri	481/00 Konets	USB	(AB)
<b>S11a</b>	6-12	1400	10448	Fri	422/00 Konets	USB	(AB)
<b>S11a</b>	7-12	0830	5371	Sat	378/33 Vnimanije 51532 27051 58272 ... 10939 76808 96183 Vnimanije (msg rptd) Konets	USB	(AB)
<b>S11a</b>	8-12	0830	5371	Sun	378/33 Vnimanije 51532 27051 58272 ... 10939 76808 96183 Vnimanije (msg rptd) Konets	USB	(AB)
<b>S11a</b>	9-12	0700	9050	Mon	479/37 Vnimanije 71341 60396 58111 ... 87092 95262 96619 Vnimanije (msg rptd) Konets	USB	(AB)
<b>S11a</b>	9-12	0915	6252	Mon	481/34 Vnimanije 71360 90278 75118 ... 44672 72757 76177 Vnimanije (msg rptd) Konets	USB	(AB)
<b>S11a</b>	10-12	1400	10448	Tue	420/00 Konets	USB	(AB/Lac)
<b>S11a</b>	11-12	0725	23486	Wed	382/00 Konets	USB	(AB-POL/Lac)
<b>S11a</b>	11-12	1850	11486	Wed	281/00 Konets	USB	(AB)
<b>S11a</b>	12-12	0445	11559	Thu	799/00 Konets	USB	(TM)
<b>S11a</b>	12-12	0700	9050	Thu	479/37 Vnimanije 71341 60396 58111 ... 87092 95262 96619 Vnimanije (msg rptd) Konets	USB	(AB/Lac)
<b>S11a</b>	13-12	0725	23486	Fri	381/00 Konets	USB	(AB)
<b>S11a</b>	13-12	0915	6252	Fri	481/34 Vnimanije 71360 90278 75118 ... 44672 72757 76177 Vnimanije (msg rptd) Konets	USB	(AB)
<b>S11a</b>	13-12	1400	10448	Fri	425/00 Konets	USB	(AB)
<b>S11a</b>	14-12	0830	5371	Sat	379/00 Konets	USB	(AB)
<b>S11a</b>	15-12	0830	5371	Sun	379/00 Konets	USB	(AB)
<b>S11a</b>	16-12	0700	9050	Mon	Test tone. No transmission	USB	(AB)
<b>S11a</b>	16-12	0915	6252	Mon	480/00 Konets	USB	(AB)
<b>S11a</b>	17-12	0445	11559	Tue	799/38 Vnimanije 40004 33543 46544 ... 06622 31963 15001 Vnimanije (msg rptd) Konets	USB	(TM)
<b>S11a</b>	17-12	1400	10448	Tue	424/00 Konets	USB	(AB)
<b>S11a</b>	18-12	0725	23486	Wed	380/00 Konets	USB	(AB-POL)
<b>S11a</b>	18-12	1850	11486	Wed	288/36 Vnimanije 31945 24127 25155 ... 67546 10822 08316 Attention (msg rptd) Konets	USB	(AB)
<b>S11a</b>	19-12	0445	11559	Thu	799/38 Vnimanije 40004 33543 46544 ... 06622 31963 15001 Vnimanije (msg rptd) Konets	USB	(TM)
<b>S11a</b>	19-12	0700	9050	Thu	478/00 Konets	USB	(AB)
<b>S11a</b>	20-12	0725	23486	Fri	389/00 Konets	USB	(AB)
<b>S11a</b>	20-12	0915	6252	Fri	485/00 Konets	USB	(AB)
<b>S11a</b>	20-12	1400	10448	Fri	421/00 Konets	USB	(AB)
<b>S11a</b>	21-12	0830	5371	Sat	372/00 Konets	USB	(AB)

<b>S11a</b>	21-12	1850	11486	Sat	288/36 Vnimanuie 31945 24127 25155 ... 67546 10822 08316 Attention (msg rptd) Konets	USB	(AB)
<b>S11a</b>	22-12	0830	5371	Sun	379/00 Konets	USB	(AB)
<b>S11a</b>	23-12	0700	9050	Mon	472/00 Konets	USB	(AB)
<b>S11a</b>	23-12	0915	6252	Mon	485/00 Konets	USB	(AB)
<b>S11a</b>	24-12	0445	11559	Tue	793/00 Konets (tentative, barely audible)	USB	(TM)
<b>S11a</b>	24-12	1400	10448	Tue	421/37 Vnimanuie 23023 69283 24905 ... 53310 95354 84438 Vnimanuie (msg rptd) Konets	USB	(AB)
<b>S11a</b>	25-12	0725	23486	Wed	380/00 Konets	USB	(AB-POL)
<b>S11a</b>	25-12	1850	11486	Wed	284/00 Konets	USB	(AB)
<b>S11a</b>	26-12	0700	9050	Thu	479/00 Konets	USB	(AB)
<b>S11a</b>	27-12	1400	10448	Fri	421/37 Vnimanuie 23023 69283 24905 ... 53310 95354 84438 Vnimanuie (msg rptd) Konets	USB	(AB)
<b>S11a</b>	28-12	0830	5371	Sat	376/00 Konets	USB	(AB)
<b>S11a</b>	28-12	1850	11486	Sat	287/00 Konets	USB	(AB)
<b>S11a</b>	29-12	0830	5371	Sun	376/00 Konets	USB	(AB)
<b>S11a</b>	29-12	1850	11486	Sun	287/00 Konets	USB	(Lac)
<b>S11a</b>	30-12	0700	9050	Mon	470/00 Konets	USB	(AB)
<b>S11a</b>	30-12	0915	6252	Mon	483/00 Konets	USB	(AB/Lac)
<b>S11a</b>	31-12	1400	10448	Tue	421/00 Konets	USB	(AB)
<b>UM04</b>	1-12	0800	4735	Sun	VVV VVV PROMRCh = 0212 = 1000 1110 1160 1360 1930 ... 0800 0800 0850 1020 1490 0800 0 off	CW	(AB-GRC)
<b>UM04</b>	2-12	0800	4735	Mon	VVV VVV PROMRCh = 02 12 = 1000 1120 1170 1360 1930 ... 0800 0800 0850 1020 1480 = AR	CW	(Subilo/AB)
<b>UM04</b>	3-12	0800	4735	Tue	VVV VVV PROMRCh = 0312 = 1000 1120 1170 1360 1930 ... 0800 0800 0850 1010 1480 = AR	CW	(AB-HNG)
<b>UM04</b>	4-12	0800	4735	Wed	VVV VVV PROMRCh = 04 12 = 1000 1120 1170 1360 1940 ... 0800 0790 0840 1000 1470 = AR	CW	(AB-HNG)
<b>UM04</b>	5-12	0800	4735	Thu	VVV VVV PROMRCh = 0512 = 1000 1120 1180 1370 1950 ... 0800 0790 0840 1000 1460 = AR	CW	(AB-HNG)
<b>UM04</b>	6-12	0800	4735	Fri	VVV VVV PROMRCh = 06 12 = 1000 1120 1270 0360 1920 ... 0800 0380 0430 0990 1440 = AR	CW	(Subilo/AB)
<b>UM04</b>	7-12	0800	4735	Sat	VVV VVV PROMRCh = 07 12 = 1000 1120 1180 1350 1940 ... 0800 0770 0820 0980 1430 = AR	CW	(Subilo/AB)
<b>UM04</b>	8-12	0800	4735	Sun	VVV VVV PROMRCh = 08 12 = 1000 1130 1180 1370 1960 ... 0800 0770 0820 0980 1430 = AR	CW	(Subilo/AB)
<b>UM04</b>	9-12	0800	4735	Mon	VVV VVV PROMRCh = 09 12 = 1000 1130 1180 1370 1960 ... 0800 0770 0810 0970 1420 = AR	CW	(AB-HNG)
<b>UM04</b>	10-12	0800	4735	Tue	VVV VVV PROMRCh = 10 12 = 1000 1130 1180 1370 1970 ... 0800 0770 0810 0970 1410 = AR	CW	(AB-HNG)
<b>UM04</b>	11-12	0801	4735	Wed	VVV VVV PROMRCh = 1112 = 1000 1130 1180 1380 1960 ... 0800 0760 0810 0960 1400 = AR	CW	(AB-HNG)

<b>UM04</b>	12-12	0800	4735	Thu	VVV VVV PROMRCh = 12 12 = 1000 1130 1180 1380 1970 ... 0800 0760 0800 0950 1390 = AR	CW	(AB-HNG)
<b>UM04</b>	13-12	0801	4735	Fri	VVV VVV PROMRCh = 13 12 = 1000 1120 1180 1370 1960 ... 0800 0750 0790 0950 1380 = AR	CW	(AB-HNG)
<b>UM04</b>	14-12	0800	4735	Sat	VVV VVV PROMRCh = 14 12 = 1000 1110 1170 1360 1950 ... 0800 0740 0790 0940 1370 = AR	CW	(Subilo/AB)
<b>UM04</b>	15-12	0800	4735	Sun	VVV VVV PROMRCh = 15 12 = 1000 1080 1140 1330 1910 ... 0800 0730 0780 0930 1350 = AR	CW	(AB-GRC)
<b>UM04</b>	16-12	0800	4735	Mon	VVV VVV PROMRCh = 16 12 = 1000 1090 1150 1340 1920 ... 0800 0730 0770 0920 1340 = AR	CW	(Subilo/AB)
<b>UM04</b>	17-12	0759	4735	Tue	VVV VVV PROMRCh = 17 12 = 1000 1090 1140 1330 1920 ... 0800 0720 0760 0910 1330 = AR	CW	(AB-HNG)
<b>UM04</b>	18-12	0800	4735	Wed	VVV VVV PROMRCh = 18 12 = 1000 1080 1140 1330 1910 ... 0800 0710 0750 0900 1310 = AR	CW	(AB-HNG)
<b>UM04</b>	19-12	0800	4735	Thu	VVV VVV PROMRCh = 19 12 = 1000 1090 1150 1340 1910 ... 0800 0700 0740 0890 1300 = AR	CW	(Subilo/AB)
<b>UM04</b>	20-12	0801	4735	Fri	VVV VVV PROMRCh = 20 12 = 1000 1080 1130 1330 1910 ... 0800 0690 0740 0880 1280 = AR	CW	(AB-GRC)
<b>UM04</b>	21-12	0800	4735	Sat	VVV VVV PROMRCh = 21 12 = 1000 1060 1120 1320 1890 ... 0800 0680 0730 0860 1260 = AR	CW	(Subilo/AB)
<b>UM04</b>	22-12	0802	4735	Sun	VVV VVV PROMRCh = 22 12 = 1000 1070 1120 1320 1900 ... 0800 0670 0710 0850 1250 = AR	CW	(AB-GRC)
<b>UM04</b>	23-12	0802	4735	Mon	VVV VVV PROMRCh = 23 12 = 1000 1060 1110 1310 1880 ... 0800 0670 0710 0850 1240 = AR	CW	(AB)
<b>UM04</b>	24-12	0759	4735	Tue	VVV VVV PROMRCh = 24 12 = 1000 1050 1100 1300 1870 ... 0800 0660 0710 0850 1240 = AR	CW	(AB-HNG)
<b>UM04</b>	25-12	0800	4735	Wed	VVV VVV PROMRCh = 25 12 = 1000 1050 1100 1300 1870 ... 0800 0660 0700 0840 1230 = AR	CW	(Subilo/AB)
<b>UM04</b>	26-12	0800	4735	Thu	VVV VVV PROMRCh = 26 12 = 1000 1050 1110 1310 1880 ... 0800 0660 0700 0840 1240 = AR	CW	(Subilo/AB)
<b>UM04</b>	27-12	0800	4735	Fri	VVV VVV PROMRCh = 27 12 = 1000 1050 1110 1300 1870 ... 0800 0660 0700 0840 1230 = AR	CW	(AB-GRC)
<b>UM04</b>	28-12	0800	4375	Sat	VVV VVV PROMRCh = 28 12 = 1000 1050 1110 1300 1880 ... 0800 0660 0700 0840 1230 = AR	CW	(AB-GRC)
<b>UM04</b>	29-12	0800	4735	Sun	VVV VVV PROMRCh = 29 12 = 1000 1060 1120 1310 1890 ... 0800 0650 0700 0840 1230 = AR	CW	(AB-GRC)
<b>UM04</b>	30-12	0807	4735	Mon	VVV VVV PROMRCh = 30 12 = 1000 1060 1110 1310 1890 ... 0800 0650 0700 0830 1220 = AR	CW	(AB-HNG)
<b>UM04</b>	31-12	0800	4735	Tue	VVV VVV PROMRCh = 31 12 = 1000 1060 1120 1310 1880 ... 0800 0650 0700 0830 1220 = AR	CW	(Subilo/AB)
<b>UM05</b>	1-12	0800	7542.8	Sun	Courir (R), B (R), Depart (R), W (R), E (R), etc.	CW	(AB)
<b>UM05</b>	2-12	1226	7542.8	Mon	Vallee (R), Crepuscule (R), Nuit (R), Juillet (R), Banane (R), Deddin (R), etc.	CW	(AB)
<b>UM05</b>	3-12	0757	7542.8	Tue	Exploration (R), Collite (R), Acide (R), M (R), Monter (R), etc.	CW	(AB)

V07	1-12	0200	18249	Sun	295 295 295 1 7644 89 7644 89 95836 10957 47669 ... 46718 14191 10046 000 000	USB	(Dan/HFD-USA)
V07	1-12	0220	15949	Sun	295 295 295 1 7644 89 7644 89 95836 10957 47669 ... 46718 14191 10046 000 000	USB	(HFD-USA)
V07	1-12	0240	14549	Sun	295 295 295 1 7644 89 7644 89 95836 10957 47669 ... 46718 14191 10046 000 000	USB	(HFD-USA)
V07	8-12	0200	18249	Sun	295 295 295 1 4360 116 4360 116 35209 42347 63020 ... 23768 94530 91400 000 000	USB	(Dan)
V07	15-12	0200	18249	Sun	295 295 295 1 8455 74 8455 74 20987 99124 74545 ... 86761 57389 23358 000 000	USB	(Dan)
V07	22-12	0200	18249	Sun	295 295 295 1 5693 61 5693 61 36725 85040 01126 ... 38354 98847 96786 000 000	USB	(Dan)
V07	29-12	0200	18249	Sun	295 295 295 1 4114 112 4114 112 98574 83302 19976 ... 24096 89733 13503 000 000	USB	(Dan)
V13	1-12	1200	15388	Sun	New Star Broadcasting. Station 1. Messages to units 5356, 5510, 5618	USB	(AVX)
V13	2-12	0100	20025	Mon	New Star Broadcasting. Station 4. Messages to units 5376, 7888, 8426	USB	(FSpy)
V13	2-12	0200	8169	Mon	New Star Broadcasting. Station 1. Messages to units 3345, 4604, 5581	USB	(AVX)
V13	2-12	0230	8169	Mon	New Star Broadcasting. Station 1(b). Messages to units 3345, 4604, 5581	USB	(FSpy)
V13	2-12	0300	13974	Mon	New Star Broadcasting. Station 2. Messages to units 4133, 4862, 7263	USB	(FSpy)
V13	7-12	1100	20025	Sat	New Star Broadcasting	USB	(AB)
V13	8-12	0000	8169	Sun	New Star Broadcasting. Station 1. no telegram for you statement	USB	(AVX)
V13	8-12	0000	15890	Sun	New Star Broadcasting. Station 3. Messages to units 0116, 1656, 6456	USB	(FSpy)
V13	8-12	0100	8169	Sun	New Star Broadcasting. Station 1. no telegram for you statement	USB	(AVX)
V13	8-12	0100	20025	Sun	New Star Broadcasting. Station 4. Messages to units 1489, 1619, 4741	USB	(FSpy)
V13	8-12	1000	20095	Sun	New Star Broadcasting. Station 5. Messages to units 0242, 6123, 64800	USB	(AVX)
V13	12-12	0230	8169	Thu	New Star Broadcasting. Station 1. Messages to units 3285, 4941, 6076	USB	(FSpy)
V13	14-12	1000	20025	Sat	New Star Broadcasting	USB	(AB)
V13	15-12	0000	8169	Sun	New Star Broadcasting. Station 1. no telegram for you	USB	(AVX)
V13	15-12	0000	8300	Sun	New Star Broadcasting. Station 3. Messages to units 4259, 7414, 8838	USB	(FSpy)
V13	15-12	0000	15890	Sun	New Star Broadcasting. Station 3. Messages to units 4259, 7414, 8838	USB	(FSpy)
V13	15-12	0030	15890	Sun	New Star Broadcasting. Station 3. Messages to units 4259, 7414, 8838	USB	(FSpy)
V13	15-12	0100	8169	Sun	New Star Broadcasting. Station 1. no telegram for you	USB	(AVX)
V13	15-12	0100	15890	Sun	New Star Broadcasting. Station 3. Messages to units 4259, 7414, 8838	USB	(FSpy)
V13	15-12	0130	15890	Sun	New Star Broadcasting. Station 3. Messages to units 4259, 7414, 8838	USB	(FSpy)
V13	15-12	0200	13974	Sun	New Star Broadcasting. Station 2. Messages to units 1179, 7599, 9884	USB	(FSpy)
V13	15-12	0230	13974	Sun	New Star Broadcasting. Station 2. Messages to units 1179, 7599, 9884	USB	(FSpy)
V13	15-12	0300	11430	Sun	New Star Broadcasting. Station 1. Messages to units 5615, 5796, 7813	USB	(FSpy)
V13	15-12	0330	11430	Sun	New Star Broadcasting. Station 1. Messages to units 5615, 5796, 7813	USB	(FSpy)
V13	15-12	1000	20095	Sun	New Star Broadcasting. Station 5. Messages to units 7366, 8712, 9008	USB	(AVX)
V13	15-12	1030	20095	Sun	New Star Broadcasting. Station 5. Messages to units 7366, 8712, 9008	USB	(AVX)
V13	15-12	1100	20025	Sun	New Star Broadcasting. Station 5. Messages to units 7366, 8712, 9008	USB	(AVX)
V13	15-12	1130	20025	Sun	New Star Broadcasting. Station 5. Messages to units 7366, 8712, 9008	USB	(AVX)
V13	15-12	1200	11430	Sun	New Star Broadcasting. Station 1. no telegram for you	USB	(AVX)
V13	15-12	1300	11430	Sun	New Star Broadcasting. Station 1. no telegram for you	USB	(AVX)
V13	16-12	0130	20025	Mon	New Star Broadcasting. Station 4. Messages to units 3621, 5022, 7292	USB	(FSpy)
V13	21-12	1000	20025	Sat	New Star Broadcasting	USB	(AB)
V13	22-12	0000	15890	Sun	New Star Broadcasting. Station 3. Messages to units 0207, 4355, 4844	USB	(FSpy)
V13	22-12	0100	18040	Sun	New Star Broadcasting. Station 3. Messages to units 0207, 4355, 4844	USB	(FSpy)



<b>V13</b>	22-12	1000	20095	Sun	New Star Broadcasting. Station 4. Messages to units 1220, 2903, 7026	USB	(AVX)
<b>V13</b>	22-12	1100	20025	Sun	New Star Broadcasting. Station 4. Messages to units 1220, 2903, 7026	USB	(AVX)
<b>V13</b>	23-12	0000	15388	Mon	New Star Broadcasting. Station 4. Messages to units 2573, 6069, 9806	USB	(FSpy)
<b>V13</b>	23-12	0100	20025	Mon	New Star Broadcasting. Station 4. Messages to units 2573, 6069, 9806	USB	(FSpy)
<b>V13</b>	23-12	0200	8169	Mon	New Star Broadcasting. Station 1(b). Messages to units 0162, 3703, 5089	USB	(AVX/FSpy)
<b>V13</b>	23-12	0200	9276	Mon	New Star Broadcasting. Station 2. Messages to units 3065, 4725, 7918	USB	(AVX/FSpy)
<b>V13</b>	23-12	0230	8169	Mon	New Star Broadcasting. Station 1(b). Messages to units 0162, 3703, 5089	USB	(FSpy)
<b>V13</b>	28-12	1102	20025	Sat	New Star Broadcasting (late start)	USB	(AB)
<b>V13</b>	28-12	1102	20095	Sat	New Star Broadcasting (late start)	USB	(AB)
<b>V13</b>	28-12	1202	13974	Sat	New Star Broadcasting (late start)	USB	(AB)
<b>V13</b>	28-12	1202	20095	Sat	New Star Broadcasting (late start)	USB	(AB)
<b>V13</b>	28-12	1232	20095	Sat	New Star Broadcasting (late start)	USB	(AB)
<b>V13</b>	28-12	1302	11430	Sat	New Star Broadcasting (late start)	USB	(AB)
<b>V13</b>	29-12	0000	8169	Sun	New Star Broadcasting. Station 1(c). no telegram for you	USB	(AVX)
<b>V13</b>	29-12	0000	15890	Sun	New Star Broadcasting. Station 3. Messages to units 0285, 5139, 8015	USB	(AVX/FSpy)
<b>V13</b>	29-12	0100	20025	Sun	New Star Broadcasting. Station 4. Messages to units 5051, 5133, 6810	USB	(AVX/FSpy)
<b>V13</b>	29-12	0130	20025	Sun	New Star Broadcasting. Station 4. Messages to units 5051, 5133, 6810	USB	(AVX)
<b>V13</b>	29-12	0200	8169	Sun	New Star Broadcasting. Station 1(b). Messages to units 2698, 5393, 7027	USB	(AVX)
<b>V13</b>	29-12	0200	8300	Sun	New Star Broadcasting. Station 2. Messages to units 6738, 6817, 8342	USB	(AVX)
<b>V13</b>	29-12	1000	20095	Sun	New Star Broadcasting. Station 5. Messages to units 158, 2603, 7262	USB	(AVX)
<b>V13</b>	29-12	1030	20095	Sun	New Star Broadcasting. Station 5. Messages to units 158, 2603, 7262	USB	(AVX)
<b>V13</b>	29-12	1100	20025	Sun	New Star Broadcasting. Station 5. Messages to units 158, 2603, 7262	USB	(AVX)
<b>V13</b>	29-12	1130	20095	Sun	New Star Broadcasting. Station 5. Messages to units 158, 2603, 7262	USB	(AVX)
<b>V13</b>	29-12	1200	8169	Sun	New Star Broadcasting. Station 1(c). no telegram for you	USB	(AVX)
<b>V13</b>	29-12	1300	8169	Sun	New Star Broadcasting. Station 1(c). no telegram for you	USB	(AVX)
<b>V13</b>	29-12	1300	14944	Sun	New Star Broadcasting. Station 4. Messages to units 5051, 5133, 6810	USB	(AVX)
<b>V13</b>	29-12	1330	14944	Sun	New Star Broadcasting. Station 4. Messages to units 5051, 5133, 6810	USB	(AVX)
<b>V13</b>	30-12	0100	19052	Mon	New Star Broadcasting. Station 1(a). Messages to units 7436, 7658, 7666, 7802	USB	(AVX)
<b>V13</b>	30-12	0130	19052	Mon	New Star Broadcasting. Station 1(a). Messages to units 7436, 7658, 7666, 7802	USB	(AVX/FSpy)
<b>V13 U</b>	8-12	0000	15890	Sun	New Star Broadcasting. Station 3. Messages to units 0116, 1656, 6456	SB	(FSpy)
<b>V13 U</b>	8-12	0100	20025	Sun	New Star Broadcasting. Station 4. Messages to units 1489, 1619, 4741	SB	(FSpy)
<b>V13 U</b>	8-12	0200	8169	Sun	New Star Broadcasting. Station 1. Messages to units 3285, 4941, 6076	USB	(AVX)
<b>V13 U</b>	8-12	0330	13974	Sun	New Star Broadcasting. Station 2. Messages to units 2815, 8004, 9740	SB	(FSpy)
<b>V13a</b>	9-12	0000	18040	Mon	New Star Broadcasting. Station 1. Messages to units 0419, 0506, 1193, 1842, 2081, 2196, 2220	AM	(FSpy/AVX)
<b>V13a</b>	16-12	0000	18040	Mon	New Star Broadcasting. Station 1. Messages to units 5886, 5995, 6016, 6122, 6695	USB	(AVX)
<b>V13a</b>	16-12	0030	18040	Mon	New Star Broadcasting. Station 1. Messages to units 5886, 5995, 6016, 6122, 6695	USB	(AVX)
<b>V13a</b>	16-12	0100	19052	Mon	New Star Broadcasting. Station 1. Messages to units 5886, 5995, 6016, 6122, 6695	USB	(AVX)
<b>V13a</b>	16-12	0130	18040	Mon	New Star Broadcasting. Station 1. Messages to units 5886, 5995, 6016, 6122, 6695	USB	(AVX)
<b>V13a</b>	16-12	0130	19052	Mon	New Star Broadcasting. Station 1. Messages to units 5886, 5995, 6016, 6122, 6695	USB	(AVX)
<b>V13a</b>	24-12	0000	19052	Tue	New Star Broadcasting. Station 1(a). Messages to units 6749, 6783, 7127, 7130, 7153, 7300	AM	(AVX/FSpy)

<b>V13a</b>	24-12	1400	14944	Tue	New Star Broadcasting. Station 1(a). Messages to units 6749, 6783, 7127, 7130, 7153, 7300	AM	(AVX/FSpy)
<b>V13a</b>	25-12	0130	19052	Wed	New Star Broadcasting. Station 1. Messages to units 6749, 6983, 7127, 7130, 7153, 7300	AM	(FSpy)
<b>VC03</b>	30-12	1416	5150	Mon	Chinese Air Defense	USB	(SJH)
<b>X--</b>	6-12	0725	13397	Fri	Russian intel.	MFSK-21/MFSK-13	(AB)
<b>X--</b>	6-12	0920	18224	Fri	Russian intel.	MFSK-21/MFSK-13	(AB)
<b>X--</b>	6-12	0930	16118	Fri	Russian intel.	MFSK-21/MFSK-13	(AB)
<b>X--</b>	6-12	0933	14772	Fri	Russian intel.	MFSK-21/MFSK-13	(AB)
<b>X--</b>	6-12	1215	12176	Fri	Russian intel.	MFSK-21/MFSK-13	(AB)
<b>X--</b>	6-12	1218	10874	Fri	Russian intel.	MFSK-21/MFSK-13	(AB)
<b>X--</b>	6-12	1222	9258	Fri	Russian intel.	MFSK-21/MFSK-13	(AB)
<b>X--</b>	6-12	1320	18544	Fri	Russian intel.	MFSK-21/MFSK-13	(AB)
<b>X--</b>	9-12	0842	18569	Mon	Russian intel.	MFSK-21/MFSK-13	(AB)
<b>X--</b>	9-12	0929	16118	Mon	Russian intel.	MFSK-21/MFSK-13	(AB)
<b>X--</b>	9-12	0932	14772	Mon	Russian intel.	MFSK-21/MFSK-13	(AB)
<b>X--</b>	9-12	1215	12176	Mon	Russian intel.	MFSK-21/MFSK-13	(AB)
<b>X--</b>	9-12	1219	10874	Mon	Russian intel.	MFSK-21/MFSK-13	(AB)
<b>X--</b>	9-12	1223	9258	Mon	Russian intel.	MFSK-21/MFSK-13	(AB)
<b>X--</b>	9-12	1226	8124	Mon	Russian intel.	MFSK-21/MFSK-13	(AB)
<b>X--</b>	12-12	1817	6854	Thu	Russian intel.	MFSK-21MFSK13	(AB)
<b>X--</b>	18-12	0829	8172	Wed	Russian intel.	MFSK-21/MFSK-13	(PP1)
<b>X--</b>	19-12	1031	17423	Thu	Russian intel.	MFSK-21/MFSK-13	(AB)
<b>X--</b>	19-12	1334	19854	Thu	Russian intel.	MFSK-21/MFSK-13	(AB)
<b>X--</b>	19-12	1338	18564	Thu	Russian intel.	MFSK-21/MFSK-13	(AB)
<b>X--</b>	19-12	1342	16256	Thu	Russian intel.	MFSK-21/MFSK-13	(AB)
<b>X--</b>	19-12	1346	15624	Thu	Russian intel.	MFSK-21/MFSK-13	(AB)
<b>X--</b>	19-12	1434	18648	Thu	Russian intel.	MFSK-21/MFSK-13	(AB)
<b>X--</b>	20-12	0902	16256	Fri	Russian intel.	MFSK-21/MFSK-13	(AB)
<b>X--</b>	20-12	0906	15624	Fri	Russian intel.	MFSK-21/MFSK-13	(AB)
<b>X--</b>	20-12	0954	16256	Fri	Russian intel.	MFSK-21/MFSK-13	(AB)
<b>X--</b>	20-12	0958	15624	Fri	Russian intel.	MFSK-21/MFSK-13	(AB)
<b>X--</b>	26-12	0955	19083	Thu	Russian intel.	MFSK-21/MFSK-13	(AB)
<b>X--</b>	27-12	0943	18569	Fri	Russian intel.	MFSK-21/MFSK-13	(AB)
<b>X--</b>	27-12	1211	16214	Fri	Russian intel.	MFSK-21/MFSK-13	(AB)
<b>X06</b>	2-12	0838	14377	Mon	MFA Moscow clg 432516: Russian embassy Bern	MFSK-6	(AB/RO)
<b>X06</b>	3-12	0750	14615	Tue	MFA Moscow clg 125643: Russian embassy Ulaanbaatar	MFSK-6	(Moon)
<b>X06</b>	4-12	0917	14631	Wed	MFA Moscow clg 362154: Russian embassy Athens	MFSK-6	(Moon)
<b>X06</b>	4-12	1251	19878	Wed	MFA Moscow clg 231654: Russian embassy Abuja	MFSK-6	(Moon)
<b>X06</b>	5-12	0756	14947	Thu	MFA Moscow clg 351264: Russian embassy Abu Dhabi	MFSK-6	(Moon)
<b>X06</b>	5-12	0924	18197	Thu	MFA Moscow clg 645321: Russian Consulate General Ho Chi Minh City	MFSK-6	(Moon)
<b>X06</b>	5-12	1328	20627	Thu	MFA Moscow clg 436512: Russian embassy Harare	MFSK-6	(AB/RO)

X06	6-12	1026	14824	Fri	MFA Moscow clg 625413: Russian embassy Tel Aviv	MFSK-6	(AB)
X06	6-12	1341	16320	Fri	MFA Moscow clg 241563: Russian Consulate General Karachi	MFSK-6	(AB)
X06	8-12	1047	15810	Sun	MFA Moscow clg 145632: Russian embassy Algiers	MFSK-6	(Moon)
X06	9-12	0817	17475	Mon	MFA Moscow clg 156234: Russian embassy Kampala	MFSK-6	(AB/Moon)
X06	9-12	0934	16117	Mon	MFA Moscow clg 463125: Russian embassy Rabat	MFSK-6	(AB/RO)
X06	13-12	0837	12213	Fri	MFA Moscow 615243: Russian embassy Geneva	MFSK-6	(Moon)
X06	23-12	0831	20690	Mon	MFA Moscow clg 156234: Russian embassy Kampala	MFSK-6	(Moon)
X06	24-12	0815	17523	Tue	MFA Moscow clg 542136: Russian embassy Beijing	MFSK-6	(Moon)
X06	24-12	1021	17470	Tue	MFA Moscow clg 216354: Russian Consulate General Chennai	MFSK-6	(AB)
X06	27-12	0741	11155	Fri	MFA Moscow clg 341265: Unid embassy	MFSK-6	(AB/RO)
X06	27-12	1002	20605	Fri	MFA Moscow clg 256134: Russian embassy Abidjan	MFSK-6	(RO)
XPA1	4-12	1310	13465	Wed	412 412 412 1 00688 00117 57168 ... 78964 70194 60453	MFSK-20/10Bd	(AB/HFD)
XPA1	4-12	1330	12165	Wed	412 412 412 1 00688 00117 57168 ... 78964 70194 60453	MFSK-20/10Bd	(AB/HFD)
XPA1	4-12	1350	10265	Wed	412 412 412 1 00688 00117 57168 ... 78964 70194 60453	MFSK-20/10Bd	(AB/HFD)
XPA1	6-12	1310	13465	Fri	412 412 412 1 00688 00117 57168 ... 78964 70194 60453	MFSK-20/10Bd	(AB)
XPA1	6-12	1330	12165	Fri	412 412 412 1 00688 00117 57168 ... 78964 70194 60453	MFSK-20/10Bd	(AB)
XPA1	6-12	1350	10265	Fri	412 412 412 1 00688 00117 57168 ... 78964 70194 60453	MFSK-20/10Bd	(AB)
XPA1	11-12	1310	13465	Wed	412 412 412 1 00688 00117 57168 ... 78964 70194 60453	MFSK-20/10Bd	(AB)
XPA1	11-12	1330	12165	Wed	412 412 412 1 00688 00117 57168 ... 78964 70194 60453	MFSK-20/10Bd	(AB)
XPA1	11-12	1350	10265	Wed	412 412 412 1 00688 00117 57168 ... 78964 70194 60453	MFSK-20/10Bd	(AB)
XPA1	13-12	1310	13465	Fri	412 412 412 1 00688 00117 57168 ... 78964 70194 60453	MFSK-20/10Bd	(AB)
XPA1	13-12	1330	12165	Fri	412 412 412 1 00688 00117 57168 ... 78964 70194 60453	MFSK-20/10Bd	(AB)
XPA1	13-12	1350	10265	Fri	412 412 412 1 00688 00117 57168 ... 78964 70194 60453	MFSK-20/10Bd	(AB)
XPA1	18-12	1310	13465	Wed	412 412 412 000 03489 00001 00000 37663	MFSK-20/10Bd	(AB)
XPA1	18-12	1330	12165	Wed	412 412 412 000 03489 00001 00000 37663	MFSK-20/10Bd	(AB)
XPA1	18-12	1350	10265	Wed	412 412 412 000 03489 00001 00000 37663	MFSK-20/10Bd	(AB)
XPA1	20-12	1310	13465	Fri	412 412 412 000 02194 00001 00000 33663	MFSK-20/10Bd	(AB)
XPA1	20-12	1330	12165	Fri	412 412 412 000 02194 00001 00000 33663	MFSK-20/10Bd	(AB)
XPA1	20-12	1350	10265	Fri	412 412 412 000 02194 00001 00000 33663	MFSK-20/10Bd	(AB)
XPA1	25-12	1310	13465	Wed	412 412 412 1 04472 00130 67082 ... 13832 54486 07052	MFSK-20/10Bd	(AB)
XPA1	25-12	1330	12165	Wed	412 412 412 1 04472 00130 67082 ... 13832 54486 07052	MFSK-20/10Bd	(AB)
XPA1	25-12	1350	10265	Wed	412 412 412 1 04472 00130 67082 ... 13832 54486 07052	MFSK-20/10Bd	(AB)
XPA1	27-12	1310	13465	Fri	412 412 412 1 04472 00130 67082 ... 13832 54486 07052	MFSK-20/10Bd	(AB)
XPA1	27-12	1330	12165	Fri	412 412 412 1 04472 00130 67082 ... 13832 54486 07052	MFSK-20/10Bd	(AB)
XPA1	27-12	1350	10265	Fri	412 412 412 1 04472 00130 67082 ... 13832 54486 07052	MFSK-20/10Bd	(AB)
XPA2	2-12	0800	11493	Mon	00253 00101 69825 ... 85570 91788 50332	MFSK-16/20Bd	(AB)
XPA2	2-12	0820	13393	Mon	00253 00101 69825 ... 85570 91788 50332	MFSK-16/20Bd	(AB)
XPA2	2-12	0840	13993	Mon	00253 00101 69825 ... 85570 91788 50332	MFSK-16/20Bd	(AB)
XPA2	2-12	0910	13562	Mon	04674 00001 00000 36263	MFSK-16/20Bd	(AB)
XPA2	2-12	0930	11583	Mon	04674 00001 00000 36263	MFSK-16/20Bd	(AB)
XPA2	2-12	0950	10281	Mon	04674 00001 00000 36263	MFSK-16/20Bd	(AB)
XPA2	2-12	1600	6984	Mon	00201 00265 19036 ... 84929 13706 56451	MFSK-16/20Bd	(AB)

XPA2	2-12	1620	5884	Mon	00201 00265 19036 ... 84929 13706 56451	MFSK-16/20Bd	(AB)
XPA2	2-12	1640	4784	Mon	00201 00265 19036 ... 84929 13706 56451	MFSK-16/20Bd	(AB)
XPA2	3-12	1100	9265	Tue	00538 00144 53741 ... 50206 05182 76000	MFSK-16/20Bd	(AB)
XPA2	3-12	1120	8165	Tue	00538 00144 53741 ... 50206 05182 76000	MFSK-16/20Bd	(AB)
XPA2	3-12	1140	7665	Tue	00538 00144 53741 ... 50206 05182 76000	MFSK-16/20Bd	(AB)
XPA2	3-12	1600	8184	Tue	01090 00166 24336 ... 50166 04664 12230	MFSK-12/20Bd	(AB/HFD)
XPA2	3-12	1620	7684	Tue	01090 00166 24336 ... 50166 04664 12230	MFSK-12/20Bd	(AB/HFD)
XPA2	3-12	1640	6784	Tue	01090 00166 24336 ... 50166 04664 12230	MFSK-12/20Bd	(AB/HFD)
XPA2	4-12	0800	11493	Wed	00253 00101 69825 ... 85570 91788 50342	MFSK-16/20Bd	(AB)
XPA2	4-12	0800	13393	Wed	00253 00101 69825 ... 85570 91788 50342	MFSK-16/20Bd	(AB)
XPA2	4-12	0800	13993	Wed	00253 00101 69825 ... 85570 91788 50342	MFSK-16/20Bd	(AB)
XPA2	4-12	0910	13562	Wed	04055 00001 00000 33661	MFSK-16/20Bd	(AB/HFD)
XPA2	4-12	0930	11583	Wed	04055 00001 00000 33661	MFSK-16/20Bd	(AB/HFD)
XPA2	4-12	0950	10281	Wed	04055 00001 00000 33661	MFSK-16/20Bd	(AB/HFD)
XPA2	4-12	1100	11579	Wed	09596 00180 25069 ... 05735 82898 26314	MFSK-16/20Bd	(AB/HFD)
XPA2	4-12	1120	10979	Wed	09596 00180 25069 ... 05735 82898 26314	MFSK-16/20Bd	(AB/HFD)
XPA2	4-12	1140	10279	Wed	09596 00180 25069 ... 05735 82898 26314	MFSK-16/20Bd	(AB/HFD)
XPA2	4-12	1200	14841	Wed	01234 00128 90108 ... 75138 58888 41443	MFSK-16/20Bd	(AB/HFD)
XPA2	4-12	1220	16241	Wed	01234 00128 90108 ... 75138 58888 41443	MFSK-16/20Bd	(AB/HFD)
XPA2	4-12	1540	18241	Wed	01234 00128 90108 ... 75138 58888 41443	MFSK-16/20Bd	(AB/HFD)
XPA2	5-12	0910	13919	Thu	00751 00133 94656 ... 33442 51461 20500	MFSK-16/20Bd	(AB/HFD)
XPA2	5-12	0930	11519	Thu	00751 00133 94656 ... 33442 51461 20500	MFSK-16/20Bd	(AB/HFD)
XPA2	5-12	0950	10719	Thu	00751 00133 94656 ... 33442 51461 20500	MFSK-16/20Bd	(AB/HFD)
XPA2	5-12	1100	11579	Thu	09596 00180 25069 ... 05735 82898 26314	MFSK-16/20Bd	(AB)
XPA2	5-12	1120	10979	Thu	09596 00180 25069 ... 05735 82898 26314	MFSK-16/20Bd	(AB)
XPA2	5-12	1140	10279	Thu	09596 00180 25069 ... 05735 82898 26314	MFSK-16/20Bd	(AB)
XPA2	5-12	1600	8184	Thu	01090 00166 24336 ... 50166 04664 12230	MFSK-12/20Bd	(AB)
XPA2	5-12	1620	7684	Thu	01090 00166 24336 ... 50166 04664 12230	MFSK-12/20Bd	(AB)
XPA2	5-12	1640	6784	Thu	01090 00166 24336 ... 50166 04664 12230	MFSK-12/20Bd	(AB)
XPA2	6-12	1100	9265	Fri	00538 00144 53741 ... 50206 05182 76000	MFSK-16/20Bd	(AB)
XPA2	6-12	1120	8165	Fri	00538 00144 53741 ... 50206 05182 76000	MFSK-16/20Bd	(AB)
XPA2	6-12	1140	7665	Fri	00538 00144 53741 ... 50206 05182 76000	MFSK-16/20Bd	(AB)
XPA2	6-12	1200	14841	Fri	01234 00128 90108 ... 75138 58888 41443	MFSK-16/20Bd	(AB)
XPA2	6-12	1220	16241	Fri	01234 00128 90108 ... 75138 58888 41443	MFSK-16/20Bd	(AB)
XPA2	6-12	1540	18241	Fri	01234 00128 90108 ... 75138 58888 41443	MFSK-16/20Bd	(AB)
XPA2	7-12	0910	13919	Sat	00751 00133 94656 ... 33442 51461 20500	MFSK-16/20Bd	(AB)
XPA2	7-12	0930	11519	Sat	00751 00133 94656 ... 33442 51461 20500	MFSK-16/20Bd	(AB)
XPA2	7-12	0950	10719	Sat	00751 00133 94656 ... 33442 51461 20500	MFSK-16/20Bd	(AB)
XPA2	7-12	1600	6984	Sat	00201 00265 19036 ... 84929 13706 56451	MFSK-16/20Bd	(AB)
XPA2	7-12	1620	5884	Sat	00201 00265 19036 ... 84929 13706 56451	MFSK-16/20Bd	(AB)
XPA2	7-12	1640	4784	Sat	00201 00265 19036 ... 84929 13706 56451	MFSK-16/20Bd	(AB)
XPA2	9-12	0800	11493	Mon	00253 00101 69825 ... 85570 91788 50332	MFSK-16/20Bd	(AB)

XPA2	9-12	0820	13393	Mon	00253 00101 69825 ... 85570 91788 50332	MFSK-16/20Bd	(AB)
XPA2	9-12	0840	13993	Mon	00253 00101 69825 ... 85570 91788 50332	MFSK-16/20Bd	(AB)
XPA2	9-12	0910	13562	Mon	03800 00122 08520 ... 83491 76831 25730	MFSK-16/20Bd	(AB)
XPA2	9-12	0930	11583	Mon	03800 00122 08520 ... 83491 76831 25730	MFSK-16/20Bd	(AB)
XPA2	9-12	0950	10281	Mon	03800 00122 08520 ... 83491 76831 25730	MFSK-16/20Bd	(AB)
XPA2	9-12	1600	6984	Mon	07076 00001 00000 34266	MFSK-16/20Bd	(AB)
XPA2	9-12	1620	5884	Mon	07076 00001 00000 34266	MFSK-16/20Bd	(AB)
XPA2	9-12	1640	4784	Mon	07076 00001 00000 34266	MFSK-16/20Bd	(AB)
XPA2	10-12	1100	9265	Tue	06322 00001 00000 33660	MFSK-16/20Bd	(AB/HFD)
XPA2	10-12	1120	8165	Tue	06322 00001 00000 33660	MFSK-16/20Bd	(AB/HFD)
XPA2	10-12	1140	7665	Tue	06322 00001 00000 33660	MFSK-16/20Bd	(AB/HFD)
XPA2	10-12	1600	8184	Tue	06065 00001 00000 33664	MFSK-12/20Bd	(AB)
XPA2	10-12	1620	7684	Tue	06065 00001 00000 33664	MFSK-12/20Bd	(AB)
XPA2	10-12	1640	6784	Tue	06065 00001 00000 33664	MFSK-12/20Bd	(AB)
XPA2	11-12	0800	11493	Wed	00253 00101 69825 ... 85570 91788 50342	MFSK-16/20Bd	(AB)
XPA2	11-12	0800	13393	Wed	00253 00101 69825 ... 85570 91788 50342	MFSK-16/20Bd	(AB)
XPA2	11-12	0800	13993	Wed	00253 00101 69825 ... 85570 91788 50342	MFSK-16/20Bd	(AB)
XPA2	11-12	0910	13562	Wed	03800 00122 08520 ... 83491 76831 25730	MFSK-16/20Bd	(AB)
XPA2	11-12	0930	11583	Wed	03800 00122 08520 ... 83491 76831 25730	MFSK-16/20Bd	(AB)
XPA2	11-12	0950	10281	Wed	03800 00122 08520 ... 83491 76831 25730	MFSK-16/20Bd	(AB)
XPA2	11-12	1100	11579	Wed	09596 00180 25069 ... 05735 82898 26314	MFSK-16/20Bd	(AB)
XPA2	11-12	1120	10979	Wed	09596 00180 25069 ... 05735 82898 26314	MFSK-16/20Bd	(AB)
XPA2	11-12	1140	10279	Wed	09596 00180 25069 ... 05735 82898 26314	MFSK-16/20Bd	(AB)
XPA2	11-12	1200	14841	Wed	04336 00164 18599 ... 54621 64741 31155	MFSK-16/20Bd	(AB)
XPA2	11-12	1220	16241	Wed	04336 00164 18599 ... 54621 64741 31155	MFSK-16/20Bd	(AB)
XPA2	11-12	1240	18241	Wed	04336 00164 18599 ... 54621 64741 31155	MFSK-16/20Bd	(AB)
XPA2	12-12	0910	13919	Thu	05114 00001 00000 33656	MFSK-16/20Bd	(AB)
XPA2	12-12	0930	11519	Thu	05114 00001 00000 33656	MFSK-16/20Bd	(AB)
XPA2	12-12	0950	10719	Thu	05114 00001 00000 33656	MFSK-16/20Bd	(AB)
XPA2	12-12	1100	11579	Thu	09596 00180 25069 ... 05735 82898 26314	MFSK-16/20Bd	(AB)
XPA2	12-12	1120	10979	Thu	09596 00180 25069 ... 05735 82898 26314	MFSK-16/20Bd	(AB)
XPA2	12-12	1140	10279	Thu	09596 00180 25069 ... 05735 82898 26314	MFSK-16/20Bd	(AB)
XPA2	12-12	1600	8184	Thu	07280 00001 00000 32267	MFSK-12/20Bd	(AB)
XPA2	12-12	1620	7684	Thu	07280 00001 00000 32267	MFSK-12/20Bd	(AB)
XPA2	12-12	1640	6784	Thu	07280 00001 00000 32267	MFSK-12/20Bd	(AB)
XPA2	13-12	1100	9265	Fri	07319 00001 00000 37260	MFSK-16/20Bd	(AB)
XPA2	13-12	1120	8165	Fri	07319 00001 00000 37260	MFSK-16/20Bd	(AB)
XPA2	13-12	1140	7665	Fri	07319 00001 00000 37260	MFSK-16/20Bd	(AB)
XPA2	13-12	1200	14841	Fri	04336 00164 18599 ... 54621 64741 31155	MFSK-16/20Bd	(AB)
XPA2	13-12	1220	16241	Fri	04336 00164 18599 ... 54621 64741 31155	MFSK-16/20Bd	(AB)
XPA2	13-12	1240	18241	Fri	04336 00164 18599 ... 54621 64741 31155	MFSK-16/20Bd	(AB)
XPA2	14-12	0910	13919	Sat	04358 00001 00000 36661	MFSK-16/20Bd	(AB)

XPA2	14-12	0930	11519	Sat	04358 00001 00000 36661	MFSK-16/20Bd	(AB)
XPA2	14-12	0950	10719	Sat	04358 00001 00000 36661	MFSK-16/20Bd	(AB)
XPA2	14-12	1600	6984	Sat	09278 00001 00000 36270	MFSK-16/20Bd	(AB)
XPA2	14-12	1620	5884	Sat	09278 00001 00000 36270	MFSK-16/20Bd	(AB)
XPA2	14-12	1640	4784	Sat	09278 00001 00000 36270	MFSK-16/20Bd	(AB)
XPA2	16-12	0800	11493	Mon	04804 00001 00000 37254	MFSK-16/20Bd	(AB)
XPA2	16-12	0820	13393	Mon	04804 00001 00000 37254	MFSK-16/20Bd	(AB)
XPA2	16-12	0840	13993	Mon	04804 00001 00000 37254	MFSK-16/20Bd	(AB)
XPA2	16-12	0910	13562	Mon	03800 00122 08520 ... 83491 76831 25730	MFSK-16/20Bd	(AB)
XPA2	16-12	0930	11583	Mon	03800 00122 08520 ... 83491 76831 25730	MFSK-16/20Bd	(AB)
XPA2	16-12	0950	10281	Mon	03800 00122 08520 ... 83491 76831 25730	MFSK-16/20Bd	(AB)
XPA2	16-12	1600	6984	Mon	00316 00234 31888 ... 77411 00807 10014	MFSK-16/20Bd	(AB)
XPA2	16-12	1620	5884	Mon	00316 00234 31888 ... 77411 00807 10014	MFSK-16/20Bd	(AB)
XPA2	16-12	1640	4784	Mon	00316 00234 31888 ... 77411 00807 10014	MFSK-16/20Bd	(AB)
XPA2	17-12	1100	9265	Tue	02113 00099 51053 ... 02419 34207 52323	MFSK-16/20Bd	(AB)
XPA2	17-12	1120	8165	Tue	02113 00099 51053 ... 02419 34207 52323	MFSK-16/20Bd	(AB)
XPA2	17-12	1140	7665	Tue	02113 00099 51053 ... 02419 34207 52323	MFSK-16/20Bd	(AB)
XPA2	17-12	1600	8184	Tue	00733 00259 15807 ... 07812 07013 27001	MFSK-12/20Bd	(AB)
XPA2	17-12	1620	7684	Tue	00733 00259 15807 ... 07812 07013 27001	MFSK-12/20Bd	(AB)
XPA2	17-12	1640	6784	Tue	00733 00259 15807 ... 07812 07013 27001	MFSK-12/20Bd	(AB)
XPA2	18-12	0800	11493	Wed	05899 00001 00000 41666	MFSK-16/20Bd	(AB)
XPA2	18-12	0800	13393	Wed	05899 00001 00000 41666	MFSK-16/20Bd	(AB)
XPA2	18-12	0800	13993	Wed	05899 00001 00000 41666	MFSK-16/20Bd	(AB)
XPA2	18-12	0910	13562	Wed	03800 00122 08520 ... 83491 76831 25730	MFSK-16/20Bd	(AB)
XPA2	18-12	0930	11583	Wed	03800 00122 08520 ... 83491 76831 25730	MFSK-16/20Bd	(AB)
XPA2	18-12	0950	10281	Wed	03800 00122 08520 ... 83491 76831 25730	MFSK-16/20Bd	(AB)
XPA2	18-12	1100	11579	Wed	03109 00001 00000 36253	MFSK-16/20Bd	(AB)
XPA2	18-12	1120	10979	Wed	03109 00001 00000 36253	MFSK-16/20Bd	(AB)
XPA2	18-12	1140	10279	Wed	03109 00001 00000 36253	MFSK-16/20Bd	(AB)
XPA2	18-12	1200	14841	Wed	00486 00085 84469 ... 31036 13624 62620	MFSK-16/20Bd	(AB)
XPA2	18-12	1220	16241	Wed	00486 00085 84469 ... 31036 13624 62620	MFSK-16/20Bd	(AB)
XPA2	18-12	1240	18241	Wed	00486 00085 84469 ... 31036 13624 62620	MFSK-16/20Bd	(AB)
XPA2	19-12	0910	13919	Thu	05803 00105 75733 ... 98806 34817 35422	MFSK-16/20Bd	(AB)
XPA2	19-12	0930	11519	Thu	05803 00105 75733 ... 98806 34817 35422	MFSK-16/20Bd	(AB)
XPA2	19-12	0950	10719	Thu	05803 00105 75733 ... 98806 34817 35422	MFSK-16/20Bd	(AB)
XPA2	19-12	1100	11579	Thu	09869 00001 00000 41667	MFSK-16/20Bd	(AB)
XPA2	19-12	1120	10979	Thu	09869 00001 00000 41667	MFSK-16/20Bd	(AB)
XPA2	19-12	1140	10279	Thu	09869 00001 00000 41667	MFSK-16/20Bd	(AB)
XPA2	19-12	1600	8184	Thu	00733 00259 15807 ... 07812 07013 27001	MFSK-12/20Bd	(AB)
XPA2	19-12	1620	7684	Thu	00733 00259 15807 ... 07812 07013 27001	MFSK-12/20Bd	(AB)
XPA2	19-12	1640	6784	Thu	00733 00259 15807 ... 07812 07013 27001	MFSK-12/20Bd	(AB)
XPA2	20-12	1100	9265	Fri	02113 00099 51053 ... 02419 34207 52323	MFSK-16/20Bd	(AB)

XPA2	20-12	1120	8165	Fri	02113 00099 51053 ... 02419 34207 52323	MFSK-16/20Bd	(AB)
XPA2	20-12	1140	7665	Fri	02113 00099 51053 ... 02419 34207 52323	MFSK-16/20Bd	(AB)
XPA2	20-12	1200	14841	Fri	00486 00085 84469 ... 31036 13624 62620	MFSK-16/20Bd	(AB)
XPA2	20-12	1220	16241	Fri	00486 00085 84469 ... 31036 13624 62620	MFSK-16/20Bd	(AB)
XPA2	20-12	1240	18241	Fri	00486 00085 84469 ... 31036 13624 62620	MFSK-16/20Bd	(AB)
XPA2	21-12	0910	13919	Sat	05803 00105 75733 ... 98806 34817 35422	MFSK-16/20Bd	(AB)
XPA2	21-12	0930	11519	Sat	05803 00105 75733 ... 98806 34817 35422	MFSK-16/20Bd	(AB)
XPA2	21-12	0950	10719	Sat	05803 00105 75733 ... 98806 34817 35422	MFSK-16/20Bd	(AB)
XPA2	21-12	1600	6984	Sat	00316 00234 31888 ... 77411 00807 10014	MFSK-16/20Bd	(AB)
XPA2	21-12	1620	5884	Sat	00316 00234 31888 ... 77411 00807 10014	MFSK-16/20Bd	(AB)
XPA2	21-12	1640	4784	Sat	00316 00234 31888 ... 77411 00807 10014	MFSK-16/20Bd	(AB)
XPA2	23-12	0800	11493	Mon	04252 00075 28361 ... 48830 61990 74207	MFSK-16/20Bd	(AB)
XPA2	23-12	0820	13393	Mon	04252 00075 28361 ... 48830 61990 74207	MFSK-16/20Bd	(AB)
XPA2	23-12	0840	13993	Mon	04252 00075 28361 ... 48830 61990 74207	MFSK-16/20Bd	(AB)
XPA2	23-12	0910	13562	Mon	00638 00061 82603 ... 67512 31990 15013	MFSK-16/20Bd	(AB)
XPA2	23-12	0930	11583	Mon	00638 00061 82603 ... 67512 31990 15013	MFSK-16/20Bd	(AB)
XPA2	23-12	0950	10281	Mon	00638 00061 82603 ... 67512 31990 15013	MFSK-16/20Bd	(AB)
XPA2	23-12	1600	6984	Mon	09077 00001 00000 34670	MFSK-16/20Bd	(AB)
XPA2	23-12	1620	5884	Mon	09077 00001 00000 34670	MFSK-16/20Bd	(AB)
XPA2	23-12	1640	4784	Mon	09077 00001 00000 34670	MFSK-16/20Bd	(AB)
XPA2	24-12	1100	9265	Tue	02113 00099 51053 ... 02419 34207 52323	MFSK-16/20Bd	(AB)
XPA2	24-12	1120	8165	Tue	02113 00099 51053 ... 02419 34207 52323	MFSK-16/20Bd	(AB)
XPA2	24-12	1140	7665	Tue	02113 00099 51053 ... 02419 34207 52323	MFSK-16/20Bd	(AB)
XPA2	24-12	1600	8184	Tue	08496 00001 00000 36271	MFSK-12/20Bd	(AB)
XPA2	24-12	1620	7684	Tue	08496 00001 00000 36271	MFSK-12/20Bd	(AB)
XPA2	24-12	1640	6784	Tue	08496 00001 00000 36271	MFSK-12/20Bd	(AB)
XPA2	25-12	0800	11493	Wed	04252 00075 28361 ... 48830 61990 74207	MFSK-16/20Bd	(AB)
XPA2	25-12	0820	13393	Wed	04252 00075 28361 ... 48830 61990 74207	MFSK-16/20Bd	(AB)
XPA2	25-12	0840	13993	Wed	04252 00075 28361 ... 48830 61990 74207	MFSK-16/20Bd	(AB)
XPA2	25-12	0910	13562	Wed	00638 00061 82603 ... 67512 31990 15013	MFSK-16/20Bd	(AB)
XPA2	25-12	0930	11583	Wed	00638 00061 82603 ... 67512 31990 15013	MFSK-16/20Bd	(AB)
XPA2	25-12	0950	10281	Wed	00638 00061 82603 ... 67512 31990 15013	MFSK-16/20Bd	(AB)
XPA2	25-12	1100	11579	Wed	00194 00144 00298 ... 70058 28332 46527	MFSK-16/20Bd	(AB)
XPA2	25-12	1120	10979	Wed	00194 00144 00298 ... 70058 28332 46527	MFSK-16/20Bd	(AB)
XPA2	25-12	1140	10279	Wed	00194 00144 00298 ... 70058 28332 46527	MFSK-16/20Bd	(AB)
XPA2	25-12	1200	14841	Wed	05841 00194 98770 ... 81227 14193 66231	MFSK-16/20Bd	(AB)
XPA2	25-12	1220	16241	Wed	05841 00194 98770 ... 81227 14193 66231	MFSK-16/20Bd	(AB)
XPA2	25-12	1240	18241	Wed	05841 00194 98770 ... 81227 14193 66231	MFSK-16/20Bd	(AB)
XPA2	26-12	0910	13919	Thu	05803 00105 75733 ... 98806 34817 35422	MFSK-16/20Bd	(AB)
XPA2	26-12	0930	11519	Thu	05803 00105 75733 ... 98806 34817 35422	MFSK-16/20Bd	(AB)
XPA2	26-12	0950	10719	Thu	05803 00105 75733 ... 98806 34817 35422	MFSK-16/20Bd	(AB)
XPA2	26-12	1100	11579	Thu	00194 00144 00298 ... 70058 28332 46527	MFSK-16/20Bd	(AB)

XPA2	26-12	1120	10979	Thu	00194 00144 00298 ... 70058 28332 46527	MFSK-16/20Bd	(AB)
XPA2	26-12	1140	10279	Thu	00194 00144 00298 ... 70058 28332 46527	MFSK-16/20Bd	(AB)
XPA2	26-12	1600	8184	Thu	05437 00001 00000 36660	MFSK-12/20Bd	(AB)
XPA2	26-12	1620	7684	Thu	05437 00001 00000 36660	MFSK-12/20Bd	(AB)
XPA2	26-12	1640	6784	Thu	05437 00001 00000 36660	MFSK-12/20Bd	(AB)
XPA2	27-12	1100	9265	Fri	02113 00099 51053 ... 02419 34207 52323	MFSK-16/20Bd	(AB)
XPA2	27-12	1120	8165	Fri	02113 00099 51053 ... 02419 34207 52323	MFSK-16/20Bd	(AB)
XPA2	27-12	1140	7665	Fri	02113 00099 51053 ... 02419 34207 52323	MFSK-16/20Bd	(AB)
XPA2	27-12	1200	14841	Fri	05841 00194 98770 ... 81227 14193 66231	MFSK-16/20Bd	(AB)
XPA2	27-12	1220	16241	Fri	05841 00194 98770 ... 81227 14193 66231	MFSK-16/20Bd	(AB)
XPA2	27-12	1240	18241	Fri	05841 00194 98770 ... 81227 14193 66231	MFSK-16/20Bd	(AB)
XPA2	28-12	0910	13919	Sat	05803 00105 75733 ... 98806 34817 35422	MFSK-16/20Bd	(AB)
XPA2	28-12	0930	11519	Sat	05803 00105 75733 ... 98806 34817 35422	MFSK-16/20Bd	(AB)
XPA2	28-12	0950	10719	Sat	05803 00105 75733 ... 98806 34817 35422	MFSK-16/20Bd	(AB)
XPA2	28-12	1600	6984	Sat	06390 00001 00000 32667	MFSK-16/20Bd	(AB)
XPA2	28-12	1620	5884	Sat	06390 00001 00000 32667	MFSK-16/20Bd	(AB)
XPA2	28-12	1640	4784	Sat	06390 00001 00000 32667	MFSK-16/20Bd	(AB)
XPA2	30-12	0800	11493	Mon	00517 00156 13388 ... 61994 24670 63226	MFSK-16/20Bd	(AB)
XPA2	30-12	0820	13393	Mon	00517 00156 13388 ... 61994 24670 63226	MFSK-16/20Bd	(AB)
XPA2	30-12	0840	13993	Mon	00517 00156 13388 ... 61994 24670 63226	MFSK-16/20Bd	(AB)
XPA2	30-12	0910	13562	Mon	02734 00001 00000 36655	MFSK-16/20Bd	(AB)
XPA2	30-12	0930	11583	Mon	02734 00001 00000 36655	MFSK-16/20Bd	(AB)
XPA2	30-12	0950	10281	Mon	02734 00001 00000 36655	MFSK-16/20Bd	(AB)
XPA2	30-12	1600	6984	Mon	00488 00103 65728 ... 02411 31440 36347	MFSK-16/20Bd	(AB)
XPA2	30-12	1620	5884	Mon	00488 00103 65728 ... 02411 31440 36347	MFSK-16/20Bd	(AB)
XPA2	30-12	1640	4784	Mon	00488 00103 65728 ... 02411 31440 36347	MFSK-16/20Bd	(AB)
XPA2	31-12	1100	9265	Tue	09153 00001 00000 33266	MFSK-16/20Bd	(AB)
XPA2	31-12	1120	8165	Tue	09153 00001 00000 33266	MFSK-16/20Bd	(AB)
XPA2	31-12	1140	7665	Tue	09153 00001 00000 33266	MFSK-16/20Bd	(AB)
XPA2	31-12	1600	8184	Tue	02099 00090 89979 ... 61131 33042 03601	MFSK-12/20Bd	(AB)
XPA2	31-12	1620	7684	Tue	02099 00090 89979 ... 61131 33042 03601	MFSK-12/20Bd	(AB)
XPA2	31-12	1640	6784	Tue	02099 00090 89979 ... 61131 33042 03601	MFSK-12/20Bd	(AB)
XPB1	1-12	0700	6941	Sun	Russian intel.	MFSK-16	(AB)
XPB1	1-12	0710	7541	Sun	Russian intel.	MFSK-16	(AB)
XPB1	1-12	0720	7941	Sun	Russian intel.	MFSK-16	(AB)
XPB1	1-12	0730	8141	Sun	Russian intel.	MFSK-16	(AB)
XPB1	1-12	0740	9241	Sun	Russian intel.	MFSK-16	(AB)
XPB1	1-12	0750	10241	Sun	Russian intel.	MFSK-16	(AB)
XPB1	1-12	1200	12198	Sun	Russian intel.	MFSK-16	(AB)
XPB1	1-12	1210	13398	Sun	Russian intel.	MFSK-16	(AB)
XPB1	1-12	1220	14798	Sun	Russian intel.	MFSK-16	(AB)
XPB1	1-12	1230	15898	Sun	Russian intel.	MFSK-16	(AB)



XPB1	1-12	1240	18298	Sun	Russian intel.	MFSK-16	(AB)
XPB1	1-12	1250	19198	Sun	Russian intel.	MFSK-16	(AB)
XPB1	1-12	1400	20373	Sun	Russian intel.	MFSK-16	(AB)
XPB1	1-12	1410	19373	Sun	Russian intel.	MFSK-16	(AB)
XPB1	1-12	1420	18373	Sun	Russian intel.	MFSK-16	(AB)
XPB1	1-12	1430	17473	Sun	Russian intel.	MFSK-16	(AB)
XPB1	1-12	1440	15873	Sun	Russian intel.	MFSK-16	(AB)
XPB1	1-12	1450	14873	Sun	Russian intel.	MFSK-16	(AB)
XPB1	2-12	0000	9352	Mon	Russian intel.	MFSK-16	(AB)
XPB1	2-12	0010	9052	Mon	Russian intel.	MFSK-16	(AB)
XPB1	2-12	0020	8152	Mon	Russian intel.	MFSK-16	(AB)
XPB1	2-12	0030	7752	Mon	Russian intel.	MFSK-16	(AB)
XPB1	2-12	0040	6952	Mon	Russian intel.	MFSK-16	(AB)
XPB1	2-12	0050	5852	Mon	Russian intel.	MFSK-16	(AB)
XPB1	2-12	0300	9168	Mon	Russian intel.	MFSK-16	(AB)
XPB1	2-12	0310	9068	Mon	Russian intel.	MFSK-16	(AB)
XPB1	2-12	0320	8068	Mon	Russian intel.	MFSK-16	(AB)
XPB1	2-12	0330	7968	Mon	Russian intel.	MFSK-16	(AB)
XPB1	2-12	0340	6768	Mon	Russian intel.	MFSK-16	(AB)
XPB1	2-12	0350	5768	Mon	Russian intel.	MFSK-16	(AB)
XPB1	2-12	0500	9284	Mon	Russian intel.	MFSK-16	(AB)
XPB1	2-12	0520	8084	Mon	Russian intel.	MFSK-16	(AB)
XPB1	2-12	0520	9084	Mon	Russian intel.	MFSK-16	(AB)
XPB1	2-12	0530	7584	Mon	Russian intel.	MFSK-16	(AB)
XPB1	2-12	0540	6884	Mon	Russian intel.	MFSK-16	(AB)
XPB1	2-12	0550	5784	Mon	Russian intel.	MFSK-16	(AB)
XPB1	2-12	0600	19461	Mon	Russian intel.	MFSK-16	(HFD)
XPB1	2-12	0610	19261	Mon	Russian intel.	MFSK-16	(HFD)
XPB1	2-12	0620	18261	Mon	Russian intel.	MFSK-16	(HFD)
XPB1	2-12	0630	16261	Mon	Russian intel.	MFSK-16	(HFD)
XPB1	2-12	0640	15861	Mon	Russian intel.	MFSK-16	(HFD)
XPB1	2-12	0650	14961	Mon	Russian intel.	MFSK-16	(HFD)
XPB1	2-12	0700	6941	Mon	Russian intel.	MFSK-16	(AB)
XPB1	2-12	0710	7541	Mon	Russian intel.	MFSK-16	(AB)
XPB1	2-12	0720	7941	Mon	Russian intel.	MFSK-16	(AB)
XPB1	2-12	0730	8141	Mon	Russian intel.	MFSK-16	(AB)
XPB1	2-12	0740	9241	Mon	Russian intel.	MFSK-16	(AB)
XPB1	2-12	0750	10241	Mon	Russian intel.	MFSK-16	(AB)
XPB1	2-12	1200	12198	Mon	Russian intel.	MFSK-16	(AB)
XPB1	2-12	1210	13398	Mon	Russian intel.	MFSK-16	(AB)
XPB1	2-12	1220	14798	Mon	Russian intel.	MFSK-16	(AB)
XPB1	2-12	1230	15898	Mon	Russian intel.	MFSK-16	(AB)

XPB1	2-12	1240	18298	Mon	Russian intel.	MFSK-16	(AB)
XPB1	2-12	1250	19198	Mon	Russian intel.	MFSK-16	(AB)
XPB1	2-12	1400	20373	Mon	Russian intel.	MFSK-16	(AB)
XPB1	2-12	1410	19373	Mon	Russian intel.	MFSK-16	(AB)
XPB1	2-12	1420	18373	Mon	Russian intel.	MFSK-16	(AB)
XPB1	2-12	1430	17473	Mon	Russian intel.	MFSK-16	(AB)
XPB1	2-12	1440	15873	Mon	Russian intel.	MFSK-16	(AB)
XPB1	2-12	1450	14873	Mon	Russian intel.	MFSK-16	(AB)
XPB1	3-12	0200	10176	Tue	Russian intel.	MFSK-16	(AB)
XPB1	3-12	0210	9376	Tue	Russian intel.	MFSK-16	(AB)
XPB1	3-12	0220	8176	Tue	Russian intel.	MFSK-16	(AB)
XPB1	3-12	0230	7676	Tue	Russian intel.	MFSK-16	(AB)
XPB1	3-12	0240	6976	Tue	Russian intel.	MFSK-16	(AB)
XPB1	3-12	0250	5876	Tue	Russian intel.	MFSK-16	(AB)
XPB1	3-12	0400	10154	Tue	Russian intel.	MFSK-16	(AB)
XPB1	3-12	0410	9354	Tue	Russian intel.	MFSK-16	(AB)
XPB1	3-12	0420	9054	Tue	Russian intel.	MFSK-16	(AB)
XPB1	3-12	0430	8154	Tue	Russian intel.	MFSK-16	(AB)
XPB1	3-12	0440	7654	Tue	Russian intel.	MFSK-16	(AB)
XPB1	3-12	0450	6854	Tue	Russian intel.	MFSK-16	(AB)
XPB1	3-12	0600	5836	Tue	Russian intel.	MFSK-16	(AB)
XPB1	3-12	0600	19461	Tue	Russian intel.	MFSK-16	(AB)
XPB1	3-12	0610	6836	Tue	Russian intel.	MFSK-16	(AB)
XPB1	3-12	0610	19261	Tue	Russian intel.	MFSK-16	(AB)
XPB1	3-12	0620	7536	Tue	Russian intel.	MFSK-16	(AB)
XPB1	3-12	0620	18261	Tue	Russian intel.	MFSK-16	(AB)
XPB1	3-12	0630	7936	Tue	Russian intel.	MFSK-16	(AB)
XPB1	3-12	0630	16261	Tue	Russian intel.	MFSK-16	(AB)
XPB1	3-12	0640	8136	Tue	Russian intel.	MFSK-16	(AB)
XPB1	3-12	0640	15861	Tue	Russian intel.	MFSK-16	(AB)
XPB1	3-12	0650	9136	Tue	Russian intel.	MFSK-16	(AB)
XPB1	3-12	0650	14961	Tue	Russian intel.	MFSK-16	(AB)
XPB1	3-12	1100	12157	Tue	Russian intel.	MFSK-16	(AB)
XPB1	3-12	1110	13557	Tue	Russian intel.	MFSK-16	(AB)
XPB1	3-12	1120	13957	Tue	Russian intel.	MFSK-16	(AB)
XPB1	3-12	1130	14757	Tue	Russian intel.	MFSK-16	(AB)
XPB1	3-12	1140	15857	Tue	Russian intel.	MFSK-16	(AB)
XPB1	3-12	1150	17467	Tue	Russian intel.	MFSK-16	(AB)
XPB1	3-12	1300	14362	Tue	Russian intel.	MFSK-16	(AB/HFD)
XPB1	3-12	1300	20044	Tue	Russian intel.	MFSK-16	(AB/HFD)
XPB1	3-12	1310	14962	Tue	Russian intel.	MFSK-16	(AB/HFD)
XPB1	3-12	1310	19344	Tue	Russian intel.	MFSK-16	(AB/HFD)

XPB1	3-12	1320	16062	Tue	Russian intel.	MFSK-16	(AB/HFD)
XPB1	3-12	1320	18544	Tue	Russian intel.	MFSK-16	(AB/HFD)
XPB1	3-12	1330	17444	Tue	Russian intel.	MFSK-16	(AB/HFD)
XPB1	3-12	1330	18262	Tue	Russian intel.	MFSK-16	(AB/HFD)
XPB1	3-12	1340	16244	Tue	Russian intel.	MFSK-16	(AB/HFD)
XPB1	3-12	1340	19362	Tue	Russian intel.	MFSK-16	(AB/HFD)
XPB1	3-12	1350	14944	Tue	Russian intel.	MFSK-16	(AB/HFD)
XPB1	3-12	1350	20362	Tue	Russian intel.	MFSK-16	(AB/HFD)
XPB1	3-12	1500	20144	Tue	Russian intel.	MFSK-16	(AB)
XPB1	3-12	1510	19044	Tue	Russian intel.	MFSK-16	(AB)
XPB1	3-12	1520	18644	Tue	Russian intel.	MFSK-16	(AB)
XPB1	3-12	1530	17444	Tue	Russian intel.	MFSK-16	(AB)
XPB1	3-12	1540	16144	Tue	Russian intel.	MFSK-16	(AB)
XPB1	3-12	1550	14944	Tue	Russian intel.	MFSK-16	(AB)
XPB1	4-12	0000	9352	Wed	Russian intel.	MFSK-16	(AB)
XPB1	4-12	0010	9052	Wed	Russian intel.	MFSK-16	(AB)
XPB1	4-12	0020	8152	Wed	Russian intel.	MFSK-16	(AB)
XPB1	4-12	0030	7752	Wed	Russian intel.	MFSK-16	(AB)
XPB1	4-12	0040	6952	Wed	Russian intel.	MFSK-16	(AB)
XPB1	4-12	0050	5852	Wed	Russian intel.	MFSK-16	(AB)
XPB1	4-12	0300	9168	Wed	Russian intel.	MFSK-16	(AB)
XPB1	4-12	0310	9068	Wed	Russian intel.	MFSK-16	(AB)
XPB1	4-12	0320	8068	Wed	Russian intel.	MFSK-16	(AB)
XPB1	4-12	0330	7968	Wed	Russian intel.	MFSK-16	(AB)
XPB1	4-12	0340	6768	Wed	Russian intel.	MFSK-16	(AB)
XPB1	4-12	0350	5768	Wed	Russian intel.	MFSK-16	(AB)
XPB1	4-12	0700	6941	Wed	Russian intel.	MFSK-16	(AB/HFD)
XPB1	4-12	0710	7541	Wed	Russian intel.	MFSK-16	(AB/HFD)
XPB1	4-12	0720	7941	Wed	Russian intel.	MFSK-16	(AB/HFD)
XPB1	4-12	0730	8141	Wed	Russian intel.	MFSK-16	(AB/HFD)
XPB1	4-12	0740	9241	Wed	Russian intel.	MFSK-16	(AB/HFD)
XPB1	4-12	0750	10241	Wed	Russian intel.	MFSK-16	(AB/HFD)
XPB1	4-12	1200	14981	Wed	Russian intel.	MFSK-16	(AB/HFD)
XPB1	4-12	1210	13981	Wed	Russian intel.	MFSK-16	(AB/HFD)
XPB1	4-12	1220	13381	Wed	Russian intel.	MFSK-16	(AB/HFD)
XPB1	4-12	1230	12181	Wed	Russian intel.	MFSK-16	(AB/HFD)
XPB1	4-12	1240	11081	Wed	Russian intel.	MFSK-16	(AB/HFD)
XPB1	4-12	1250	10281	Wed	Russian intel.	MFSK-16	(AB/HFD)
XPB1	4-12	1400	20373	Wed	Russian intel.	MFSK-16	(AB)
XPB1	4-12	1410	19373	Wed	Russian intel.	MFSK-16	(AB)
XPB1	4-12	1420	18373	Wed	Russian intel.	MFSK-16	(AB)
XPB1	4-12	1430	17473	Wed	Russian intel.	MFSK-16	(AB)

XPB1	4-12	1440	15873	Wed	Russian intel.	MFSK-16	(AB)
XPB1	4-12	1450	14873	Wed	Russian intel.	MFSK-16	(AB)
XPB1	4-12	2100	11551	Wed	Russian intel.	MFSK-16	(AB)
XPB1	4-12	2110	10951	Wed	Russian intel.	MFSK-16	(AB)
XPB1	4-12	2120	10351	Wed	Russian intel.	MFSK-16	(AB)
XPB1	4-12	2130	9351	Wed	Russian intel.	MFSK-16	(AB)
XPB1	4-12	2140	9051	Wed	Russian intel.	MFSK-16	(AB)
XPB1	4-12	2150	7951	Wed	Russian intel.	MFSK-16	(AB)
XPB1	4-12	2300	9087	Wed	Russian intel.	MFSK-16	(AB)
XPB1	4-12	2310	8187	Wed	Russian intel.	MFSK-16	(AB)
XPB1	4-12	2320	7887	Wed	Russian intel.	MFSK-16	(AB)
XPB1	4-12	2330	7487	Wed	Russian intel.	MFSK-16	(AB)
XPB1	4-12	2340	6787	Wed	Russian intel.	MFSK-16	(AB)
XPB1	4-12	2350	5887	Wed	Russian intel.	MFSK-16	(AB)
XPB1	6-12	1300	20044	Fri	Russian intel.	MFSK-16	(AB)
XPB1	6-12	1310	19344	Fri	Russian intel.	MFSK-16	(AB)
XPB1	6-12	1320	18544	Fri	Russian intel.	MFSK-16	(AB)
XPB1	6-12	1330	17444	Fri	Russian intel.	MFSK-16	(AB)
XPB1	6-12	1340	16244	Fri	Russian intel.	MFSK-16	(AB)
XPB1	6-12	1350	14944	Fri	Russian intel.	MFSK-16	(AB)
XPB1	7-12	1200	14978	Sat	Russian intel.	MFSK-16	(AB)
XPB1	7-12	1210	13978	Sat	Russian intel.	MFSK-16	(AB)
XPB1	7-12	1220	13378	Sat	Russian intel.	MFSK-16	(AB)
XPB1	7-12	1230	12178	Sat	Russian intel.	MFSK-16	(AB)
XPB1	7-12	1240	10278	Sat	Russian intel.	MFSK-16	(AB)
XPB1	7-12	1240	11078	Sat	Russian intel.	MFSK-16	(AB)
XPB1	9-12	0600	19461	Mon	Russian intel.	MFSK-16	(AB)
XPB1	9-12	0610	19261	Mon	Russian intel.	MFSK-16	(AB)
XPB1	9-12	0620	18261	Mon	Russian intel.	MFSK-16	(AB)
XPB1	9-12	0630	16261	Mon	Russian intel.	MFSK-16	(AB)
XPB1	9-12	0640	15861	Mon	Russian intel.	MFSK-16	(AB)
XPB1	9-12	0650	14961	Mon	Russian intel.	MFSK-16	(AB)
XPB1	10-12	0600	19461	Tue	Russian intel.	MFSK-16	(AB)
XPB1	10-12	0610	19261	Tue	Russian intel.	MFSK-16	(AB)
XPB1	10-12	0620	18261	Tue	Russian intel.	MFSK-16	(AB)
XPB1	10-12	0630	16261	Tue	Russian intel.	MFSK-16	(AB)
XPB1	10-12	0640	15861	Tue	Russian intel.	MFSK-16	(AB)
XPB1	10-12	0650	14961	Tue	Russian intel.	MFSK-16	(AB)
XPB1	10-12	1300	20044	Tue	Russian intel.	MFSK-16	(AB)
XPB1	10-12	1310	19344	Tue	Russian intel.	MFSK-16	(AB)
XPB1	10-12	1320	18544	Tue	Russian intel.	MFSK-16	(AB)
XPB1	10-12	1330	17444	Tue	Russian intel.	MFSK-16	(AB)

<b>XPB1</b>	10-12	1340	16244	Tue	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	10-12	1350	14944	Tue	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	11-12	1200	14978	Wed	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	11-12	1210	13978	Wed	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	11-12	1220	13378	Wed	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	11-12	1230	12178	Wed	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	11-12	1240	10278	Wed	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	11-12	1240	11078	Wed	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	13-12	1300	20044	Fri	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	13-12	1310	19344	Fri	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	13-12	1320	18544	Fri	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	13-12	1330	17444	Fri	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	13-12	1340	16244	Fri	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	13-12	1350	14944	Fri	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	14-12	1200	14978	Sat	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	14-12	1210	13978	Sat	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	14-12	1220	13378	Sat	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	14-12	1230	12178	Sat	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	14-12	1240	10278	Sat	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	14-12	1240	11078	Sat	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	16-12	0600	19461	Mon	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	16-12	0610	19261	Mon	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	16-12	0620	18261	Mon	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	16-12	0630	16261	Mon	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	16-12	0640	15861	Mon	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	16-12	0650	14961	Mon	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	17-12	0600	19461	Tue	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	17-12	0610	19261	Tue	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	17-12	0620	18261	Tue	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	17-12	0630	16261	Tue	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	17-12	0640	15861	Tue	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	17-12	0650	14961	Tue	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	17-12	1300	20044	Tue	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	17-12	1310	19344	Tue	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	17-12	1320	18544	Tue	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	17-12	1330	17444	Tue	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	17-12	1340	16244	Tue	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	17-12	1350	14944	Tue	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	18-12	1200	14978	Wed	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	18-12	1210	13978	Wed	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	18-12	1220	13378	Wed	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	18-12	1230	12178	Wed	Russian intel.	MFSK-16	(AB)

XPB1	18-12	1240	10278	Wed	Russian intel.	MFSK-16	(AB)
XPB1	18-12	1240	11078	Wed	Russian intel.	MFSK-16	(AB)
XPB1	20-12	1300	20044	Fri	Russian intel.	MFSK-16	(AB)
XPB1	20-12	1310	19344	Fri	Russian intel.	MFSK-16	(AB)
XPB1	20-12	1320	18544	Fri	Russian intel.	MFSK-16	(AB)
XPB1	20-12	1330	17444	Fri	Russian intel.	MFSK-16	(AB)
XPB1	20-12	1340	16244	Fri	Russian intel.	MFSK-16	(AB)
XPB1	20-12	1350	14944	Fri	Russian intel.	MFSK-16	(AB)
XPB1	21-12	1200	14978	Sat	Russian intel.	MFSK-16	(AB)
XPB1	21-12	1210	13978	Sat	Russian intel.	MFSK-16	(AB)
XPB1	21-12	1220	13378	Sat	Russian intel.	MFSK-16	(AB)
XPB1	21-12	1230	12178	Sat	Russian intel.	MFSK-16	(AB)
XPB1	21-12	1240	10278	Sat	Russian intel.	MFSK-16	(AB)
XPB1	21-12	1240	11078	Sat	Russian intel.	MFSK-16	(AB)
XPB1	23-12	0600	19461	Mon	Russian intel.	MFSK-16	(AB)
XPB1	23-12	0610	19261	Mon	Russian intel.	MFSK-16	(AB)
XPB1	23-12	0620	18261	Mon	Russian intel.	MFSK-16	(AB)
XPB1	23-12	0630	16261	Mon	Russian intel.	MFSK-16	(AB)
XPB1	23-12	0640	15861	Mon	Russian intel.	MFSK-16	(AB)
XPB1	23-12	0650	14961	Mon	Russian intel.	MFSK-16	(AB)
XPB1	24-12	0600	19461	Tue	Russian intel.	MFSK-16	(AB)
XPB1	24-12	0610	19261	Tue	Russian intel.	MFSK-16	(AB)
XPB1	24-12	0620	18261	Tue	Russian intel.	MFSK-16	(AB)
XPB1	24-12	0630	16261	Tue	Russian intel.	MFSK-16	(AB)
XPB1	24-12	0640	15861	Tue	Russian intel.	MFSK-16	(AB)
XPB1	24-12	0650	14961	Tue	Russian intel.	MFSK-16	(AB)
XPB1	24-12	1300	20044	Tue	Russian intel.	MFSK-16	(AB)
XPB1	24-12	1310	19344	Tue	Russian intel.	MFSK-16	(AB)
XPB1	24-12	1320	18544	Tue	Russian intel.	MFSK-16	(AB)
XPB1	24-12	1330	17444	Tue	Russian intel.	MFSK-16	(AB)
XPB1	24-12	1340	16244	Tue	Russian intel.	MFSK-16	(AB)
XPB1	24-12	1350	14944	Tue	Russian intel.	MFSK-16	(AB)
XPB1	25-12	1200	14978	Wed	Russian intel.	MFSK-16	(AB)
XPB1	25-12	1210	13978	Wed	Russian intel.	MFSK-16	(AB)
XPB1	25-12	1220	13378	Wed	Russian intel.	MFSK-16	(AB)
XPB1	25-12	1230	12178	Wed	Russian intel.	MFSK-16	(AB)
XPB1	25-12	1240	10278	Wed	Russian intel.	MFSK-16	(AB)
XPB1	25-12	1240	11078	Wed	Russian intel.	MFSK-16	(AB)
XPB1	27-12	1300	20044	Fri	Russian intel.	MFSK-16	(AB)
XPB1	27-12	1310	19344	Fri	Russian intel.	MFSK-16	(AB)
XPB1	27-12	1320	18544	Fri	Russian intel.	MFSK-16	(AB)
XPB1	27-12	1330	17444	Fri	Russian intel.	MFSK-16	(AB)

<b>XPB1</b>	27-12	1340	16244	Fri	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	27-12	1350	14944	Fri	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	28-12	1200	14978	Sat	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	28-12	1210	13978	Sat	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	28-12	1220	13378	Sat	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	28-12	1230	12178	Sat	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	28-12	1240	10278	Sat	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	28-12	1240	11078	Sat	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	30-12	0600	19461	Mon	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	30-12	0610	19261	Mon	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	30-12	0620	18261	Mon	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	30-12	0630	16261	Mon	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	30-12	0640	15861	Mon	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	30-12	0650	14961	Mon	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	31-12	0600	19461	Tue	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	31-12	0610	19261	Tue	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	31-12	0620	18261	Tue	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	31-12	0630	16261	Tue	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	31-12	0640	15861	Tue	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	31-12	0650	14961	Tue	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	31-12	1300	20044	Tue	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	31-12	1310	19344	Tue	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	31-12	1320	18544	Tue	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	31-12	1330	17444	Tue	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	31-12	1340	16244	Tue	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	31-12	1350	14944	Tue	Russian intel.	MFSK-16	(AB)

# APPENDIX

## List of active stations

### Prefixes

E	English language	Q	4+4 QPSK mode
F	FSK (Frequency Shift Keying) modes	S	Slavic languages
G	German language	SK	Various modes used by Cuba, incl. (B)PSK, WinDRM
HM	Hybrid modes	UM(C)	Unid Morse station (Chinese)
M(C)	Morse code (Chinese)	V	Voice broadcasts in other languages
P	PSK modes. QPSK (Quadrature Phase Shift Keying) and BPSK (Binary Phase-Shift keying) modes	VC	Voice Chinese
		XP	MFSK (polytone) modes

### Notes :

There is no solid proof that the mentioned operators are correct.  
Russian G06 and V06 are not in the list but are occasionally used for exercises

Code	Description	Country	Counterpart	Operator
E06	3-fig id, OM/EE 00000	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
E06a	3-fig id, 2 group commencing with 11111	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
E06b	3-fig id with 5FG group in call, 2 msgs	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
E07	3-fig id, OM/EE 000 000	RUS	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1	Russian intelligence
E07a	Null msg format. Nnn nnn nnn 000 repeated 20 mins later	RUS	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1	Russian intelligence
E11	nnn Oblique 00 Out	POL	E11, E11a, S11a, F03, P03	Agencja Wywiadu
E11a	E11 with message	POL	E11, E11a, S11a, F03, P03	Agencja Wywiadu
E25	Arabic music, 3FGs call, 4FGs, 9450 kHz	EGY	E25, E25a, E25b	GID
E25a	E25 but 3FG 3FG 2FG 2FG 2FG 2FG call	EGY	E25, E25a, E25b	GID
E25b	Arab message; callup in English	EGY	E25, E25a, E25b	GID
F01	FSK/ITA2 200Bd/500Hz	RUS	E06, S06, M14, F01, F06, F06a	Russian Diplo/Intel.
F02	MFSK-4 150Bd/4000Hz (12kHz BW)	RUS		Unid Russian net.
F03f	FSK-2 400Bd/800Hz	POL	E11, E11a, S11a, F03, P03	Agencja Wywiadu
F03g	BPSK 50Bd/1000Hz/464 bits	POL	E11, E11a, S11a, F03, P03	Agencja Wywiadu
F03h	BPSK 100Bd/1000Hz/512 bits	POL	E11, E11a, S11a, F03, P03	Agencja Wywiadu
F03i	FSK-2 100Bd/800Hz/cf +1200Hz/488-bit period	POL	E11, E11a, S11a, F03, P03	Agencja Wywiadu
F03j	FSK-4 100Bd/400Hz/cf +1200Hz/448-bit period	POL	E11, E11a, S11a, F03, P03	Agencja Wywiadu
F03k	FSK-2 400Bd/800Hz/cf +1200Hz/448-bit period	POL	E11, E11a, S11a, F03, P03	Agencja Wywiadu
F03l	FSK-2 100Bd/200Hz/cf +700Hz/448-bit period	POL	E11, E11a, S11a, F03, P03	Agencja Wywiadu
F06	FSK 200Bd/1000Hz ACF=288 sending compressed digits	RUS	E06, S06, M14, F01, F06, F06a	Russian Diplo/Intel.
F06a	FSK 200Bd/1000Hz ACF=288 sending uncompressed ASCII files	RUS	E06, S06, M14, F01, F06, F06a	Russian Diplo/Intel.
F07	5x16-tone MFSK, 10Bd, 20Hz + BPSK, 250Bd bursts	RUS	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1	Russian intelligence
HM01	Consists of alternating WinDRM data & V02a repeating sequences.	CUB		DGI
M01	2 tone hand-keyed, ends '000'	RUS		Russian Navy
M01a	End of the month transmission	RUS		Russian Navy
M12	5FG, 3 or 4FG DK. Ends with 000 000	RUS	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1	Russian intelligence
M12a	3FG DK. 2 Messages. Ends with 000 000	RUS	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1	Russian intelligence
M14	Ends 00000 or 5 long dashes	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
M14a	Dual msg variant	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
M14b	Rare, added 2nd msg hand keyed	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
M14c	Rare, dual msg, consecutive id's	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
M14d	3FG id with 5FG group in call	RUS	E06, S06, M14, F01, F06, F06a	
M21	14 fig msgs. Markers and tracking data	RUS	M21, M41	Russian Air Defense
M22	4XZ	ISR		Israeli Navy
M23	Letters and/or figures strings in various formats	F		
M41	M21 variant using callsigns and WZD and ABV	RUS	M21, M41	Russian Air Defense
M42	Various modes	RUS		Russian Gov/Intel.
M42b	FSK 50/500 (=50= separator)	RUS		Russian Gov/Intel.
M51a	FAV22 transmissions	F		French army



<b>M51b</b>	Non-stop 5-character groups	F		French army
<b>M76</b>	ABCD de EFGH QTC xx xx = 5FG 3607X RRRRR 201XX NNN			
<b>M89</b>	Markers like V YHXD YHXD YHXD DE SAQC SAQC and 4FG messages. Cut numbers	CHN		Chinese military
<b>M89v</b>	M89 voice transmissions	CHN		Chinese military
<b>M95</b>	Markers and 4FG messages. Cut numbers. Morse counterpart of V26 and Q26	CHN	M95, Q26, V26	Chinese military
<b>MC03</b>	Tracking data. Various formats	CHN	VC01	Chinese Air Defense
<b>MVC03</b>	Morse counterpart of VC03	CHN	VC03	Chinese Air Defense
<b>MX</b>	Single letter beacons/markers	RUS		Russian military
<b>P03e</b>	QPSK 100Bd/488-bit period	POL	E11, E11a, S11a, F03, P03	
<b>P03f</b>	QPSK 200Bd/496-bit period	POL	E11, E11a, S11a, F03, P03	
<b>P03g</b>	BPSK 50Bd/464-bit period	POL	E11, E11a, S11a, F03, P03	
<b>P03h</b>	BPSK 100Bd/512-bit period	POL	E11, E11a, S11a, F03, P03	
<b>P03i</b>	BPSK 100Bd/512-bit period	POL	E11, E11a, S11a, F03, P03	
<b>P03j</b>	QPSK 100Bd/504-bit period	POL	E11, E11a, S11a, F03, P03	
<b>P03k</b>	BPSK 100Bd/480-bit period	POL	E11, E11a, S11a, F03, P03	
<b>P03l</b>	QPSK 100Bd/464-bit period	POL	E11, E11a, S11a, F03, P03	
<b>P07</b>	Russian intel. 8-tone OFDM, QSPK, 62.5Bd, 125Hz + BPSK, 250Bd bursts	RUS	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1	Russian intelligence
<b>Q26</b>	Digital counterpart of V26 and M95. Mode: 4+4 QPSK 75/3000 LSB	CHN	M95, Q26, V26	Chinese military
<b>S06</b>	3-fig id, 00000 OM/RR	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
<b>S06b</b>	3-fig id, two group (commencing with 11111, stutter)	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
<b>S06c</b>	Repeating single group	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
<b>S06e</b>	3-fig id, two messages	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
<b>S06f</b>	3 group msg, ends 00000	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
<b>S11a</b>	nnn Cherta 00 or group count + message. Konets	POL	E11, E11a, S11a, F03, P03	Agencja Wywiadu
<b>S28</b>	Buzzer	RUS		Russian military
<b>S30</b>	Pip	RUS		Russian military
<b>S32</b>	Squeaky Wheel	RUS		Russian military
<b>UM03</b>	X2M (probably Chinese). Mode: CW			
<b>UM04</b>	PROMRCh. Daily transmissions. Format: VVVVV PROMRCh = 27 09 = 1000 0600 0640 0780 1160 ... ABV repeat message = AR. Origin: Bulgaria	BUL		Bulgarian military
<b>UM05</b>	French morse training station	F		
<b>UM06</b>	Various formats morse strings	F		
<b>UM10</b>	10-minutes net. Callsigns sent for 10 minutes 2x per hour on 2 parallel frequencies. Seldom messages are sent.			
<b>V07</b>	Spanish Man 000 000	RUS	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1	Russian intelligence
<b>V07F</b>	French version of E07	RUS	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1	Russian intelligence
<b>V13</b>	New Star Broadcasting	TWN	V13, V13a, V13b	Military Intelligence
<b>V13a</b>	New Star Broadcasting (AM, 5-7 msgs to 5-7 units)	TWN	V13, V13a, V13b	Military Intelligence
<b>V13b</b>	New Star Broadcasting (AM/USB hybrid, intro 2x, 4 msgs to 4 units)	TWN	V13, V13a, V13b	Military Intelligence
<b>V26</b>	Voice counterpart of M95 and Q26	CHN	M95, Q26, V26	Chinese military
<b>VC01</b>	Chinese Robot (tracking data)	CHN	MC03	Chinese Air Defense
<b>VC02</b>	Chinese voice morse stations	CHN		Chinese Air Defense
<b>VC03</b>	3FG callup and 4FG messages			
<b>VC05</b>	Chinese time stamp station. Operator calling a 4-figure callsign for four minutes. At the end the actual Beijing time is mentioned.	CHN		
<b>VR01</b>	Russian station passing coded messages. Active sinds at least March 2014. Seldom heard	RUS		
<b>X06</b>	MFA Moscow. Selcal system for diplomatic missions	RUS		Various
<b>XPA1</b>	MFSK-20/10Bd transmissions	RUS		Russian intelligence
<b>XPA2</b>	MFSK-16/20Bd transmissions	RUS		Russian intelligence
<b>XPB1</b>	MFSK-16 transmissions	RUS		Russian intel
<b>XSL</b>	QPSK 1500Bd. Slot Machine (Japanese Navy Telemetry)	J		Japanese navy

**Morse characters**

A	. -	1	. - - - -	Full stop (period)	[ . ]	. - . - . -
B	- . . .	2	. . - - -	Comma	[ , ]	- - . . - -
C	- . . .	3	. . . - -	Colon	[ : ]	- - - . . .
D	- . .	4	. . . . -	Question mark	[ ? ]	. . - - . .
E	.	5	. . . . .	Exclamation mark	[ ! ]	- . - . - -
F	. . - .	6	- . . . .	Apostrophe	[ ' ]	. - - - - .
G	- - .	7	- - . . .	Dash or Hyphen	[ - ]	- . . . . -
H	. . . .	8	- - - . .	Slash	[ / ]	- . . - .
I	. .	9	- - - - .	Left-hand bracket	[ ( ]	- . - - .
J	. - - -	0	- - - - -	Right-hand bracket	[ ) ]	- . - - - .
K	- . -			Quotation marks	[ " " ]	. - . . . .
L	. - . .			Equals sign	[ = ]	- . . . -
M	- -	Accented letters		Understood		. . . - .
N	- .	Ä	. - . -	Plus sign	[ + ]	. - . - .
O	- - -	Á	. - - - -	Invitation to transmit		- . -
P	. - . .	CH	- - - -	Wait	[ AS ]	. - . . .
Q	- - . -	É	. . - . .	End of Transmission	[ SK, VA ]	. . . - . -
R	. - .	Ö	- - - .	End of message	[ AR ]	. - . - .
S	. . .	Ü	. . - -	Starting signal		- . - . -
T	-			Multiplication sign	[ × ]	- . . -
U	. . -			At sign	[ @ ]	. - - . - .
V	. . . -			Break	[ BK ]	- . . . - . -
W	. - -			Ampersand	[ & ]	. - . . .
X	- . . -					
Y	- . - -					
Z	- - . .					

For Cyrillic morse etc., see also  
<http://udxf.nl/Morse-document.pdf>  
<http://udxf.nl/Russian.pdf>

Chinese cut numbers (M89, M95, MC03, etc)

A	U	3	4	5	6	7	D	N	T
1	2	3	4	5	6	7	8	9	0

M08a cut numbers

A	N	D	U	W	R	I	G	M	T
1	2	3	4	5	6	7	8	9	0

Q26 conversion

F	J	B	P	G	U	Y	M	C	W
0	1	2	3	4	5	6	7	8	9

3<sup>rd</sup> shift Cyrillic RTTY as used by M42b

Q	W	E	R	T	Y	U	I	O	P	(	K	V	Z
1	2	3	4	5	6	7	8	9	0	K	=	-	+

Word	E11a	S11a	M03	
Attention	Attention	Vnimanye	<table border="1"> <tr> <td>-. . -. .</td> </tr> </table>	-. . -. .
-. . -. .				
Slash /	Oblique	Cirta		
Out	Out	Konets		

Figure	English	French	German	Mandarin	Spanish	Russian	Arabic
0	Zero	Zero	Null	Ling	Cero	Null	Sifr
1	One	Un	Eins	Yi	Uno	Odín	Wahid
2	Two	Deux	Zwei	Er	Dos	Dva	Itnien
3	Three	Trois	Drei	San	Tres	Tri	Talata
4	Four	Quatre	Vier	Si	Cuatro	Chety're	Arba`a
5	Five	Cinq	Fünf	Wu	Cinco	Pyat'	Xamsa
6	Six	Six	Sechs	Liu	Seis	Shest'	Sitta
7	Seven	Sept	Sieben	Qi	Siete	Sem'	Sab`a
8	Eight	Huit	Acht	Ba	Ocho	Vósem'	Tamanya
9	Nine	Neuf	Neun	Jiu	Nueve	Dévyat'	Tiss`a

Figure	Morse	Vietnamese	E17z	S11a	G06	E11
0	— — — — —	Số không	Zero	Nul	Null	Zero
1	. — — — —	Một	Van	Adinka	Eins	One
2	.. — — —	Hai	To	Dwojka	Twso	Two
3	... — —	Ba	Fwee	Trojka	Drei	Three
4	.... —	Bồ'n	Fo	Cienciorka	Vier	Four
5	.....	Năm	Fav	Pietiorcka	Funuf	Fiver
6	— .....	Sáu	Six	Szest	Sechs	Six
7	— — — . .	Ba   y	Seven	Siem	Sieben	Seven
8	— — — . . .	Tám	Eight	Wosiem	Acht	Eight
9	— — — — .	Chín	Nine	Diewiet	Neugen	Niner
=	— . . . .					
/	— . . . . .					

Note: E17z, M03 and M08a are defunct.

## COLOPHON

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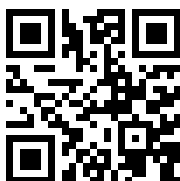
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070 27364 92836 89428 61286 19982 36998 32764 31276 81  
086 48932 78987 32123 49817 26386 81287 65491 87364 81  
121 75654 56656 12737 72727 72727 91918 63873 67867 74  
123 87629 37677 32612 53498 71296 28756 18276 98716 87  
1269 76329 74698 76857 98678 27681 56781 57681 73648 11  
591 87364 87265 96718 27638 12673 84769 28743 98127 01  
0 63298 75698 27465 87326 49876 28376 81273 98615 86  
67 87432 74328 78674 29867 32867 67867 86786 43246 86  
57 68768 68763 84238 34238 68768 62342 48273 48768 234  
136 98432 32432 86743 43286 43286 43286 43286 43286 86  
743 86743 86743 39867 32867 86743 43286 43286 43243 86  
741 86743 86743 86743 86743 86743 86743 86743 86743 86  
383 98798 98754 98754 98754 98754 29867 67543 67986 86  
176 87698 69876 87698 69876 87612 12341 39867 86798 662  
867 43298 65656 54756 56123 32143 14321 32143 14321 321  
867 43298 58765 76587 58765 76587 58765 76587 58765 765  
123 45678 86543 21098 36513 58645 26548 58665 26513 66

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